

Pricebook 20.0

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Revision 1 - 2/2026

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www.dungs.com/usa

1.0 QUICK REFERENCE

Order Processing

- 5.0.2 A \$75 minimum order amount is required.
- 5.0.6 For same-day shipping requests, a \$35 expedite fee will be added to your order. This fee is listed as a separate line item, PN 298007.
- 5.0.1 State Sales tax may be assessed unless an exemption certificate is forwarded to Dungs prior to order processing.
- 4.0.4 A Cancellation Fee may be assessed for orders canceled after order-entry at the Company's discretion.
- Page 3 Expedited airfreight charges may be quoted for non-stock and Stock Class "C" items as an alternative to standard sea-freight.

Shipping

- 6.0.1 Standard terms are FCA Blaine, Minnesota.
- 6.0.5 Transfer of Title occurs once product leaves the Karl Dungs dock.
- 5.0.6 Normal shipping hours: 8:00 am-1 :30 pm Central Time.
- 5.0.6 Orders that require shipment same day will be assessed a \$35.00 expedite fee. Same day shipping is subject to company discretion.

Exports

- 5.0.3 Orders requesting direct shipment to a destination outside the contiguous United States, Alaska or Hawaii may be subject to processing, shipping and exportation fees as determined by the company.
- 5.0.3 Prior to incurring costs, Karl Dungs will provide an estimate to the purchaser for approval. In lieu of a formal quote a minimum of \$75 export paperwork fee can be expected.

Payment

- 5.0.2 Standard terms are Net 30 days subject to approved credit. MasterCard, Visa, American Express and Discover are accepted.

Accommodation and Warranty Returns

- 15.0.1 A Return Authorization (RA) number must be obtained from Dungs prior to the return of any product to Dungs.
- 15.0.3 Please refer to the enclosed RA form. Purchaser assumes all carrier charges and responsibility for damages in transit unless preauthorized by Karl Dungs, Inc.
- 16.0.4 RA numbers are valid for 30 Days. If returned goods are not received within 30 days, the RA number is canceled, and a new RA number must be obtained.
- 16.0.1 Accommodation return consideration may not be allowed for assembled items and non-stock products.
- 16.0.3 A minimum 15% Restock Fee will be assessed for accommodation if the return product is new, unused and in its original container.
- 16.0.4 Request for evaluation for failure mode may be assessed a minimum \$50 evaluation fee if the product is not under warranty. Contact Customer Service for evaluation fee quote.
- 15.0.3 Replacement units will be shipped with normal charges until the returned product can be evaluated by Dungs.
- 16.0.1 Nonstock/special order items (items not listed in the price book) cannot be canceled once the purchase order is accepted and acknowledged. Nonstock/special order items cannot be returned under the accommodation return policy. All sales are final.

Standard Terms and Conditions

3.0 GENERAL

- 3.0.1 These Standard Terms and Conditions (these "Terms") of Karl Dungs, Inc., a Minnesota corporation (the "Company"), apply to all business relations of the Company with each customer (a "Customer"), including contracts for the sale or supply of goods, as defined by the Minnesota Uniform Commercial Code (the "UCC") at Minnesota Statutes Section 336.2-105, and contracts for services. These Terms shall apply to all transactions within the scope of the UCC, to all transactions involving services performed or to be performed by the Company, and to all other sales, service or business transactions with the Company unless otherwise agreed in writing. Goods sold or supplied by the Company are referred to in these Terms as "Products."
- 3.0.2 If these Terms have been provided to a Customer, the version of these Terms most recently provided to the Customer in writing shall also apply to similar future contracts between the Company and the Customer without the Company having to recite or refer to them each time a similar contract is entered into. If these Terms have not been provided to a Customer, the version of these Terms posted on the Company's website at the time an order is placed by the Customer shall apply to contracts between the Company and the Customer except to the extent otherwise agreed in writing or as may be otherwise required by Section 336.2-207 of the UCC. No waiver or modification of any of these Terms shall be binding on the Company unless such waiver or modification is specified in writing and signed by an officer of the Company.
- 3.0.3 All Company proposals, all acceptances of any order from a Customer, and all sales by the Company and contracts for services to be performed by the Company are expressly limited and made conditional upon the Customer's acceptance and assent to these Terms, notwithstanding receipt or acknowledgement by the Company of the Customer's order form or specifications containing additional or different provisions, or any conflicting oral representations by any employee or agent of the Company. Any terms or conditions contained in any order, invoice, payment memorandum, or other notification from a Customer that are inconsistent with or additional to these Terms shall not be binding on the Company unless expressly accepted by the Company in writing. The Company shall not be bound by any such inconsistent or additional terms or conditions even if the Company has knowledge of such inconsistent or additional terms or conditions and the agreement entered into between the Company and the Customer contains no specific rejection of such terms or conditions.
- 3.0.4 In the event of a conflict between these Terms and the provisions of any written agreement entered into by the Company and a Customer (including exhibits, addenda and amendments to any agreement), the written agreement between the Company and the Customer shall take precedence over these Terms. In the event of a conflict between these Terms and the terms of any oral agreement between the Company and a Customer, these Terms shall take precedence unless the conflicting terms of the oral agreement are confirmed in writing by the Company.
- 3.0.5 Any notice or declaration from a Customer to the Company following offer and acceptance of a contract (including any notice of defect, rejection of Products or deliveries, revocation of acceptance, or demand for modification or rescission) must be given in writing in order to be effective.
- 3.0.6 The UCC and any other applicable statutory provisions shall govern transactions between the Company and each Customer relating to the sale of Products, except to the extent otherwise agreed by the Company and the Customer in writing or to the extent modified or excluded by these Terms.

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4.0 OFFER AND ACCEPTANCE OF CONTRACTS FOR PRODUCTS

- 4.0.1 Possession by a Customer of the Company's catalog or literature shall not be construed as an offer by the Company to sell any Products listed in such materials. Offers made by the Company are subject to change and are non-binding. To the extent that any Company action may under applicable law constitute an offer to sell Products (such as furnishing a Customer with product descriptions, catalogues, technical documentation, drawings, plans, calculations, pricing or references to industry standards, whether in writing or in electronic form), such offers are subject to change and are non-binding.
- 4.0.2 A Customer's purchase order for Products constitutes a binding offer to enter into a contract. All Customer orders are subject to acceptance by the Company at the Company's principal office at 3890 Pheasant Ridge Drive NE, Blaine, MN 55449. Unless otherwise set forth in the purchase order, the Company shall have the right to accept any such offer within two weeks after the date of receipt by the Company of the purchase order. The Company's acceptance may be given either by written acceptance or order confirmation or by delivery of Products to the Customer. The Company's delivery of nonconforming Products does not constitute an acceptance if the Company seasonably notifies the Customer that the delivery is offered only as an accommodation to the Customer.
- 4.0.3 All price quotations and cost estimates provided by the Company to a Customer, and all related product specifications, drawings, formulas, illustrations, calculations, brochures, catalogues, models, tools and other documents and auxiliary devices furnished or made available to the Customer by the Company, constitute confidential and proprietary information of the Company. The Company expressly reserves all ownership rights and copyright interests in such information and materials. Without the Company's express prior written consent, no Customer shall disclose any such information or materials to any third party nor make the content thereof accessible to any third party or to the general public. No Customer shall use or duplicate such information or materials, directly or indirectly, without the express prior written consent of the Company. If the Company so requests, a Customer shall return any such information or materials to the Company and destroy any copies that may have been made by the Customer if such information or materials are no longer required by the Customer in the ordinary course of the Customer's business or if negotiations between the Company and the Customer have not led to the formation of a contract.
- 4.0.4 If, for any reason, a Customer desires to cancel an order, such cancellation shall be permitted only upon the express written consent of the Company and at the Company's discretion. If the Company consents to the cancellation of an order, the Company may charge the Customer for all costs incurred, including without limitation materials, labor, overhead and reasonable profit.
- 4.0.5 Returns and restocking charges are addressed in the Karl Dungs, Inc. Warranty and Accommodation Returns, Section 15, which is available upon request from the Company.

5.0 PRICES AND PAYMENT FOR PRODUCTS

- 5.0.1 Unless otherwise agreed in writing, prices for Products stated in the Company's pricebook that are current on the date a contract is accepted shall apply. All prices are based on standard domestic packaging. For special packaging or handling requirements, the Customer must contact the Company for pricing. The Customer shall pay all costs of shipping from the Company's premises in Blaine, Minnesota and the cost of any shipping insurance is desired by the Customer. Prices stated in the Company's pricebook are exclusive of any applicable sales or use taxes. Any taxes, customs, charges, and other public levies shall be borne by the Customer.

Standard Terms and Conditions

- 5.0.2 All prices stated in the Company's pricebook are subject to change without notice. Minimum billing is \$75.00 USO. The net purchase price for Products ordered shall be due and payable by the Customer within thirty (30) days from date of invoice. All purchases are subject to approved credit or credit card payment and subject to availability. Shipments can be expedited prior to establishing credit, by including check with order for full amount, specifying CREDIT COLLECT or by credit card payment, subject to availability. Progress payments may be required on larger orders at the Company's discretion.
- 5.0.3 Orders originating outside the contiguous United States, Alaska, Hawaii or Canada shall be subject to payment in cash in advance or pre-approved credit terms. Orders requesting direct shipment to a destination outside the contiguous United States, Alaska or Hawaii may be subject to processing, shipping and exportation fees, as determined by the Company, including an export paperwork fee at a minimum amount of \$75.00 USO. Prior to incurring export costs, the Company will provide an estimate to the Customer for approval in lieu of a formal quotation.
- 5.0.4 The Company shall accept payments by check from any Customer only if such payment method is expressly agreed upon in advance in writing. The Company reserves the right to require another method of payment at any time. The Customer shall promptly reimburse the Company for any bank charges or other costs related to checks returned for nonpayment. The Company reserves the right, at any time, to make delivery of Products in whole or in part on an advance payment basis only. The Company shall give the Customer notice of such requirement in the applicable order confirmation.
- 5.0.5 Prices stated in the Company's pricebook are for quantities released per shipment. To qualify for quantity discount pricing, Products purchased must have:
- (a) one purchase order with one purchase order number;
 - (b) one bill-to and one ship-to address; and
 - (c) one set of freight terms.
- 5.0.6 Modifications to blanket order purchases are subject to Company approval. Normal shipping hours are 8:00 a.m. to 1 :30 p.m. Central Time. Orders that require same day shipment will be assessed a \$35.00 USO expedite fee and are subject to Company approval. Same day shipment requests are subject to Company approval. Any approval by the Company under this subsection shall be at the Company's sole discretion.
- 5.0.7 The Company reserves the right to ship any of the Company's combustion controls ("Controls") and invoice for the order even though minor components are on backorder, if the missing items are late due to circumstances beyond the Company's reasonable control and if the missing components will not prevent initial installation work by the Customer. If a Customer requires a complete shipment, the words "SHIP COMPLETE" must be specified on the purchase order.
- 5.0.8 The Company shall have the right, at the Company's sole discretion, to add a finance charge at a periodic rate of 2% per month (annual percentage of 24%) or the maximum rate permitted by law, whichever is less, to the amount of any unpaid invoices over 60 days old, with finance charges accruing from the date of the invoice. The Company reserves the right to recover damages for any default by a Customer and to pursue all other remedies available to the Company under the UCC.
- 5.0.9 Except as provided in subsection 9.0.5 of these Terms, no Customer shall have the right to offset against any payment due to the Company for claims that the Customer may have against the Company.
- 5.0.10 If the Company discovers that a Customer is insolvent after a contract has been accepted, the Company may refuse delivery of Products ordered except upon advance payment for such Products and for any Products previously delivered under the contract, together with all other rights and remedies available to the Company under the UCC, including without limitation Section 336.2-702.

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6.0 DELIVERY OF PRODUCTS

- 6.0.1 All Products purchased from the Company, unless otherwise agreed by the Company and the Customer in writing, shall be shipped for delivery FCA the Company's premises in Blaine, Minnesota to the destination requested by the Customer, and the Customer assumes responsibility for damage or loss in transit. Unless otherwise agreed in writing, the Company shall determine, in the Company's sole discretion, the method of shipping, including the carrier, the shipping route and the packaging of Products for shipment. The Company shall not be liable or responsible for any loss by reason of the selected mode or route of shipment.
- 6.0.2 The Company's estimated time of delivery of Products purchased is understood to be from date of receipt of all necessary information, including credit approval, bill-to and ship-to addresses, approved blueprints or schematics (if any), and the Customer's approval, if applicable. Any delay in delivery of any installment shall not relieve the Customer of the Customer's obligation to accept remaining deliveries. Revisions made to an order after initial processing are subject to Company review and may add to or delay delivery dates previously estimated.
- 6.0.3 Statements made by the Company regarding the delivery period for any purchased Products are estimates only and are non-binding unless a delivery deadline is expressly agreed upon or stated by the Company in writing upon acceptance of a purchase order. Upon acceptance of a contract by the Company, the Company's obligation with respect to any agreed upon date of delivery is conditioned upon the Customer providing all technical and commercial information requested by the Company relating to the item for delivery on a timely basis and the Customer performing all of its obligations in connection with the contract, including making any payments that become due prior to the date of delivery and using commercially reasonable efforts to cooperate with the Company in making delivery. If a Customer fails to perform such obligations on a timely basis, the delivery period shall be extended accordingly.
- 6.0.4 The Company shall not be liable to Customer for damages nor for breach or cancellation of any contract as a result of any delay in delivery due to circumstances beyond the Company's reasonable control ("Force Majeure Events"). For purposes of this subsection, Force Majeure Events shall include, without limitation, acts of God or nature, acts of Customer, embargo or other governmental acts, regulations or requirements, fires, floods, storms, accidents, labor disturbances, war, civil disturbances or terrorism, vandalism or other aggression, delay in transportation, failure or interruptions in power, communications, satellite, Internet or other networks, or unavailability of parts, materials, labor, manufacturing facilities, equipment or supplies. The Company's noncompliance with a binding delivery deadline or the Company's failure to deliver, in whole or in part, shall not constitute a breach of contract if the Company's performance has been made impracticable by the occurrence of a contingency the nonoccurrence of which was a basic assumption on which the contract was made or by the Company's compliance in good faith with any applicable foreign or domestic governmental regulation or order, whether or not such regulation or order later proves to be invalid.
- 6.0.5 The Company's responsibility for delivery of Products shipped FCA the Company's premises in Blaine, Minnesota shall end when a receipt is obtained by the Company from the carrier or freight forwarder. THE CUSTOMER SHALL NOTIFY THE COMPANY OF ANY SHORTAGE OR BREAKAGE OF DELIVERED PRODUCTS WITHIN FIFTEEN (15) DAYS FROM RECEIPT. IN THE EVENT OF LOSS OR EXCHANGE INCURRED IN TRANSIT, THE CUSTOMER SHALL MAKE ANY CLAIM AGAINST THE CARRIER OR FREIGHT FORWARDER FOR PRODUCTS LOST OR BROKEN IN SHIPMENT.
- 6.0.6 Except as provided in these Terms, the determination as to whether the Company is in default in delivery shall be governed by applicable provisions of the UCC. In no event, however, shall the Company be held to be in default unless a warning notice was given by the Customer to the Company in writing prior to the delivery deadline.
- 6.0.7 Nothing in this Section 6.0 shall limit or affect the Company's rights under the UCC or other applicable law with respect to the impossibility or unavailability of performance by the Company under any contract.

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6.0.8 Products delivered by the Company shall be deemed accepted by the Customer when:
(i) the Customer signifies acceptance in any commercial manner, (ii) fails to make an effective rejection under UCC Section 336.2-602, or (iii) does any act inconsistent with the Company's ownership of the Products, including without limitation:

- (a) any Products are resold by the Customer to a third party or provided to a third party for use; or
- (b) any Products are installed, incorporated or combined with other products or materials by the Customer or with the approval of the Customer; or
- (c) any Products are used in a manner going beyond inspection or testing, either by the Customer or by third parties with the approval of the Customer; or
- (d) delivery is accepted by the Customer's customer.

If any contract with a Customer or any applicable UCC provision calls for an earlier date for the deemed acceptance by the Customer of Products delivered by the Company, such an earlier date shall govern. Acceptance of a part of any commercial unit of Products is acceptance of that entire unit.

6.0.9 The risk of loss with respect to any Products shall pass to the Customer at the latest when the Products are accepted by the Customer. If a specific acceptance procedure has been agreed upon in writing between the Company and a Customer, such procedure shall determine when the risk of loss passes to the Customer at the latest.

6.0.10 If a Customer wrongfully rejects Products or wrongfully revokes acceptance of Products, fails to signify acceptance of Products that are delivered by the Company in compliance with any contract, repudiates a contract or otherwise fails to cooperate in an agreed upon acceptance procedure, or if the Company's performance is delayed or prevented by reason of the Customer's breach, the Company shall be entitled to all remedies available under the UCC, including damages and the recovery of storage costs and other expenses resulting from the Customer's breach.

7.0 RESERVATION OF SECURITY INTEREST IN PRODUCTS

7.0.1 Pending payment in full of all amounts owing to the Company under any contract with a Customer for the sale of Products, the Company reserves a security interest in the Products sold and shall have all rights and remedies of a secured creditor under UCC Article 9 with respect to such Products. The Customer hereby consents to the filing by the Company of one or more financing statements to perfect the Company's security interest in such Products.

7.0.2 Until a Customer makes full payment for Products purchased under any contract with the Company, the Customer shall not grant any other security interest in such Products to a third party nor pledge its rights under the contract to a third party without the prior written consent of the Company. The Customer shall give the Company prompt written notice of any bankruptcy or insolvency filing by or against the Customer, any assignment by the Customer for the benefit of creditors, or any attachment or seizure by a third party of any Products subject to the Company's security interest.

7.0.3 In the event of a default in payment or other breach of contract by a Customer, the Company shall have all rights and remedies available under UCC Section 336.2-703 in addition to its rights as a secured creditor under UCC Article 9.

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- 7.0.4 Pending revocation by the Company pursuant to subsection 7.0.4(c) below, the Customer may resell or install Products subject to the Company's security interest in the ordinary course of the Customer's business. In such an event, the provisions set forth below shall apply to such resale or installation.
- (a) The Company's security interest in such an event shall extend to any products created or improved through installation of the Products, subject only to the rights of any third parties.
 - (b) The Customer assigns to the Company, as additional security, the Customer's rights to payment from any third-party purchaser arising from the resale of the Products or of the product created or improved. The Company accepts such an assignment. The obligations of the Customer set forth in subsection 7.0.2 above shall apply with regard to the rights so assigned to the Company.
 - (c) The Customer shall be entitled to collect any payment owing on the resale. The Company shall not undertake to collect such payment from the third-party purchaser so long as the Customer complies with its payment obligations to the Company under its contract and provided that the Customer is not insolvent or does not become insolvent. In the event that the Customer is in breach of its payment obligations to the Company or becomes insolvent, the Company shall have the right to demand that the Customer provide all information about the third-party purchasers necessary for collection, deliver resale documents to the Company, and notify the third-party purchasers of the assignment. In addition, in such event, the Company shall have the right to revoke the Customer's authorization to resell or install the Products subject to the Company's security interest.
 - (d) If the realizable value of the assignment made by the Customer under subsection 7.0.4(b) above exceeds the dollar amount of the Company's unpaid invoices by more than ten percent (10%), the Company shall release the excess portion of such assignment if the Customer so requests.

8.0 REJECTION OF NONCONFORMING GOODS

A Customer's right to reject nonconforming Goods shall be governed by applicable provisions of the UCC except as specifically provided in this Section 8.0. The Customer's right to reject Goods as defective or nonconforming to the contract must be exercised within a reasonable time after their delivery or tender and shall be ineffective unless the Customer seasonably notifies the Company of the claimed defect or nonconformity with particularity. A Customer's failure to describe a particular defect in connection with the Customer's rejection of Goods shall preclude the Customer from relying on the unstated defect to justify rejection or to establish breach by the Company if the defect was ascertainable by reasonable inspection and the Company could have cured the defect or nonconformity if seasonable notice had been given by the Customer.

- 8.0.1 The Customer has an obligation to inspect all Goods delivered or tendered and to give notice to the Company of a defect within a reasonable time. If the Customer fails to conduct a proper inspection or fails to give notice to the Company of a defect within a reasonable time, the Company shall have no liability to the Customer with respect to the particular defect not disclosed to the Company. The burden is on the Customer to establish that any defect or nonconformity exists with respect to any Goods accepted by the Customer.

For incorrect deliveries and short shipments, the Customer has an obligation to inspect all Goods delivered or tendered and to give notice to the Company in writing within 2 weeks of delivery.

For shipping damage that impairs performance, the Customer shall in any event give notice to the Company of said defect or nonconformity in writing within 30 days of delivery.

For an out-of-the-box, visual defect that impairs performance, the Customer shall in any event give notice to the Company of said defect or nonconformity in writing within 30 days of delivery.

For a performance non-conformity, such as the part simply does not work out-of-the-box or it failed after being in service, the Customer shall give notice to the Company as per section .4 "Warranty".

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8.0.2 Any claim by a Customer for contract damages related to defective or nonconforming Goods shall be subject to the limitations set forth in Section 10.0 below.

9.0 LIMITED WARRANTY ON THE CONTROLS THEMSELVES

9.0.1 The Company warrants to the original purchaser for a period of one (1) year from date of invoice that part sold by the Company of Karl Dungs, Inc. will be free from defects in material or workmanship and will perform at rated capacity as stated only:

- (i) when properly installed, connected and started in accordance with current Company instructions and/or current Company Information Guides, as revised from time to time,
- (ii) when used for the applications specified by the Company and used in the environment as specified or as limited by the Company, and
- (iii) when in normal use, service and maintenance. Normal use, service and maintenance means:
 - (a) Not in excess of the minimum and/or maximum pressures, temperatures, volumes and rated capacities or other parameters specified in the Company's Product Bulletin, Specification Sheets, and/or quotation(s);
 - (b) Using only fluids specified in the Company's Product Bulletin, Specifications Sheets, and/or quotation(s); and
 - (c) Operated and maintained in compliance with the current Company instructions and/or current Company Information Guides, as revised from time to time.

Due to the nature of fuel-fired equipment and the controls and accessories for fuel-fired equipment, there will always exist an explosion and fire hazard in the use of such equipment. To minimize such hazards, the Company's Controls and associated equipment and accessories must be installed, operated and maintained in accordance with the appropriate instruction(s) and/or Information Guide(s), as revised from time to time. Purchasers of the Company's Controls and other Goods waive subrogation on all claims covered under their own insurance or other available insurance.

The limited warranty in this Section 9.0 does not apply to sensors and limited life electrical components such as batteries, fuses, lamps and the like. In addition, the Company accepts responsibility only for Controls manufactured by the Company or Karl Dungs GmbH & Co. KG. However, the Company will extend to the original purchaser the benefit of whatever warranty is extended by the manufacturer for non-Dungs manufactured products. This warranty shall not apply to any defect resulting from negligence or accident, improper or inadequate storage or maintenance by the original purchaser or any third party, unauthorized modifications, or misuse.

In addition, the limited warranty in this Section 9.0 does not apply to loss or damage caused by any or all of the following circumstances or conditions:

- (a) freight damage;
- (b) parts and/or accessories or components not obtained from or approved by the Company;
- (c) any consequential or incidental damages arising from the use of Controls, systems or other Goods manufactured or sold by the Company; or
- (d) misapplication, misuse, abuse, or failure to follow the Company's Product Bulletins or Specification Sheets.

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Remedies for breach of the limited warranty in this Section 9.0 shall be limited to the repair or replacement, without charge for labor or materials, of any item found upon examination by the Company to have been defective, and shall not include field installation costs, if any, involved in the exchange. Such remedies shall be conditioned upon receipt of written notice by the Company from the original purchaser of any alleged defects promptly after the original purchaser's discovery thereof within the warranty period. Generally, the Company's consent, if given, will be upon the condition that the original purchaser assumes and prepays all carrier charges. The Company shall have the option, in its sole discretion, to either repair the defect in the item delivered or to supply a replacement item without the defect. The Company reserves the right to condition its repair or replacement upon payment by the original purchaser of the purchase price due, if any, subject to the original purchaser's right to a deduction under UCC Section 336.2-717. If the Company elects to cure any defect by providing repair services, the original purchaser shall permit the Company sufficient time and opportunity to perform such services and shall deliver to the Company for such purpose the item or items with the claimed defect. If the Company elects to provide a replacement item, the Customer shall return the defective item to the Company in exchange for the replacement item.

THE LIMITED WARRANTY IN THIS SECTION 9.0 IS EXTENDED BY THE COMPANY ONLY TO ORIGINAL PURCHASERS OF CONTROLS MANUFACTURED BY THE COMPANY OR KARL DUNGS, INC. AND IS VALID ONLY FOR CONTROLS USED WITHIN THE UNITED STATES OR CANADA. THE LIMITED WARRANTY AND REMEDIES SET FORTH IN THIS SECTION 9.0 ARE EXCLUSIVE AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WRITTEN OR ORAL, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The Company shall not be liable to the Customer or any third party for any incidental, indirect, special, punitive or consequential damages of any kind (including without limitation lost profits or revenues), whether or not any such damages may have been foreseeable, except as provided in UCC Section 336.2-719(3). No person, including any dealer or representative of the Company, is authorized to make any representations concerning Company products or systems on behalf of the Company or to assume for the Company the obligations contained in the limited warranty in this Section 9.0. The Company reserves the right to make design and other changes, modifications or improvements upon its products or systems, without any obligation to install the same on any previously sold or delivered products or systems.

- 9.07 The limited warranty in this Section 9.0 does not apply to any services performed or to be performed by the Company, including without limitation any field services, technician services or engineering services, whether provided as part of a service contract or performed as warranty repair work on covered Products.

10.0 CONTRACTS FOR SERVICES

- 10.0.1 Contracts with the Company for the performance of services (including, without limitation, consulting, training, engineering, assembly, maintenance and repair) shall be governed by these Terms except where applicability is expressly related only to the sale of Products. The Company shall be obligated to perform only those services described in each contract for services. The standard of care for all services to be performed by employees, contractors and subcontractors of the Company shall be the skill and care used by members of the same profession practicing under similar circumstances at the same time and in the same locality. The Company makes no other warranties, express or implied, under these Terms or otherwise, in connection with the Company's services. The Company shall not be responsible for the acts or workmanship of any of the Customer's own employees, contractors, consultants or agents for any work done in connection with the Company's services, even if such work is done under the Company's supervision. The Company shall not be liable to any Customer or any employees or invitees of the Customer for any loss or injury to persons or property caused in whole or in part by the negligence of the Customer or its employees, contractors or suppliers. The Company may assign its own employees or one or more independent contractors, at the Company's discretion, to perform any services under a contract with the Customer.

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- 10.0.2 Fees and other charges payable to the Company for services shall be as set forth in the contract for services. Any contract that specifies only "time and materials" or words to that effect shall be invoiced at the Company's standard hourly rates at the time that the services are performed. The Customer shall be responsible for payment of any sales or use tax imposed on the Company's services. Unless otherwise specified in a contract for services, invoices for fees and other charges shall be issued by the Company upon completion of the work unless the period of services extends beyond thirty (30) days, in which event invoices shall be issued on a monthly basis for services performed in the preceding calendar month. Invoices shall be due and payable by the Customer within thirty (30) days from date of invoice. The Company shall accept payments by check from any Customer only if such payment method is expressly agreed upon in advance in writing. The Company reserves the right to require another method of payment at any time. The Customer shall promptly reimburse the Company for any bank charges or other costs related to checks returned for nonpayment. The Company shall have the right, at the Company's sole discretion, to add a finance charge at a periodic rate of 2% per month (annual percentage of 24%) or the maximum rate permitted by law, whichever is less, to the amount of any unpaid invoices over 60 days old, with finance charges accruing from the date of the invoice.
- 10.0.3 Unless otherwise specified in any written proposal by the Company for services, the proposal shall be valid for only sixty (60) days. If any proposal includes an estimate of fees and other charges, the estimate shall not be construed as a fixed price quotation and shall not be binding on the Company unless and until a written contract for services is executed that includes a fixed price. Fees and charges for services shall not include any necessary materials, supplies or replacement parts. If out of town travel is required in connection with any services, the Company shall be entitled to reimbursement from the Customer for reasonable out-of-pocket travel and lodging expenses incurred, in addition to fees and other charges.
- 10.0.4 If services are to be performed by the Company on the Customer's premises, the Customer shall be obligated to provide a safe and suitable location for such services and shall notify the Company in advance of any hazards or necessary safety precautions. If the Company is delayed in or prevented from performing services due to circumstance caused or the Customer or otherwise beyond the control of the Company, the Customer shall be responsible for payment of any additional costs related to such delay or prevention.
- 10.0.5 If a contract for services is entered into and the Customer elects to terminate the contract without cause or for convenience prior to completion, the Company shall be entitled to payment for services performed prior to the effective time of termination and reimbursement of expenses already incurred, together with an early termination fee equal to 15% of the fees for the services not performed, unless otherwise agreed in writing.
- 11.0 LIMITATION OF LIABILITY
- 11.0.1 It is expressly agreed that the Company's liability under the warranty set forth in Section 9.0 above is limited and the Company does not function as an insurer. Under no circumstance shall the Company be liable to the Customer or any third party for special, indirect or consequential damages. If the Company should be found liable to anyone under any theory (except any express warranty where the remedy is set forth in these Terms) for loss, harm or damage (whether relating to the sale of a Product or services performed to be performed by the Company), the liability of the Company shall be limited to the lesser of the actual loss, harm or damage, or the original purchase price paid for the involved equipment, system or service when sold (or when service performed) by the Company to the Customer. This liability is exclusive and regardless of cause or origin resulting directly or indirectly to the person or property from:
- (a) the performance or nonperformance of any obligation set forth in Section 9.0 above;
 - (b) any agreement, oral or written, including specifications, between the Company and the Customer
 - (c) negligence, active, passive or otherwise, of the Company or any of its employees, agents or independent contractors

Standard Terms and Conditions

- d) breach of any legally imposed warranty or covenant; or
- e) misrepresentation or strict liability involvement.

11.0.2 The terms of any Customer purchase order shall not modify or enlarge the Company's liability or obligations under these Terms.

12.0 STATUTE OF LIMITATIONS

12.0.1 Notwithstanding UCC Section 336.2-725, the period of limitations for any action by a Customer against the Company for breach of contract shall be one (1) year from the date that risk of loss passes to the Customer in any sale of Products or one (1) year from the date of completion of the last service performed by the Company in any contract for services.

12.0.2 The limitations period in subsection 12.0.1 above shall apply to all contractual and non-contractual claims by the Customer for damages, indemnification or defense, including claims based on a defect in the Products, except as provided in subsection 9.0.1 above, and unless the application of the normal statutory limitations period would result in a shorter period in an individual case.

13.0 SOFTWARE

In the event that computer software is provided by the Company as part of, or in connection with, the sale or service of any Products or in connection with the performance of any other services by the Company, the Company grants to the Customer a non-exclusive and non-transferable license to use such software, including any corresponding documentation, strictly for the intended purpose of such software with the item or items delivered. Use of any such software for any other purpose or on more than one system is prohibited without the prior written consent of the Company. The Customer shall not sublicense, sell, distribute, assign or grant to any third-party rights to access or use of such software. The Customer shall not attempt to modify, reverse engineer, decompile or copy any part of such software. Subject only to the license granted to Customer, the software and any corresponding documentation shall remain the exclusive property of the Company or the Company's licensor. The Customer shall not remove any copyright notices, restrictive legends or other information relating to such software nor disable any protection against its unlicensed use.

14.0 CHOICE OF LAW AND JURISDICTION

These Terms and the contractual relationship between the Company and the Customer, and all rights and obligations of the Company and the Customer, shall be governed by and construed in accordance with the laws of the State of Minnesota, without giving effect to choice of law principles thereof and, to the extent applicable, the federal laws of the United States and any applicable export regulations. Uniform international laws, in particular the United Nations Convention on Contracts for the International Sale of Products, shall expressly not apply to these Terms or the contractual relationship between the Company and the Customer. Minnesota state and federal courts shall have exclusive jurisdiction over any disputes, litigation or other legal proceedings involving these Terms and the contractual relationship between the Company and the Customer, and any such proceedings shall be venue in the state or federal courts located in Hennepin County, Minnesota.

Standard Terms and Conditions

15.0 WARRANTY AND ACCOMMODATION RETURNS

15.1 Warranty and Accommodation Return: DEFINITION, PURPOSE AND OVERVIEW

The purpose of the Warranty and Accommodation Return Policy and Procedure is to improve customer service through the establishment of a consistent system for the control of products returned to the Company. We will make every effort possible to try to meet and exceed our customers' expectations for service. To meet these service expectations, it is important that an RMA (Return Material Authorization) number be assigned to all returned products.

15.2 Warranty return of a product is permitted if the product fails to perform to the specifications published by Karl Dungs, Inc. (the Company)

15.3 Accommodation returns of product to Karl Dungs, Inc. (the "Company") are permitted when:

1. Product is ordered in error.
2. Product is incorrectly shipped.
3. Product is ordered correctly but later determined not to be needed.
4. Product is returned for repair.

To obtain authorization for warranty return of products purchased from a Distributor or a Representative, contact the Distributor or Representative.

Nonstock/special order items (items not listed in the price book) cannot be cancelled once the purchase order is accepted and acknowledged. Nonstock/special order items cannot be returned under the accommodation return policy.

15.4 Policy for Warranty and Accommodation Returns

1. A Return Material Authorization (RMA) number must be obtained from Dungs prior to the return of any product to Dungs. Please refer to the enclosed RMA form. Purchaser assumes all carrier charges and responsibility for damages in transit unless preauthorized by Karl Dungs, Inc.
2. RMA are valid for 90 days. If returned goods are not received within 90 days, the RMA number may be cancelled, and a new RMA number would need to be obtained, unless extensions are requested and granted.
3. RMA numbers for parts without storage times are valid for 6 months. If returned goods are not received within 6 months. The RMA number may be cancelled, and a new RMA number would need to be obtained.
4. RMA's (i.e. parts) may be returned for restock no longer than 90 days from date of invoice.
5. A minimum 15% Restock Fee will be assessed for accommodation if the return product is new, unused and in its original container. If part is returned and needs to be relabeled, or relabeled and boxed, the restock is subject to
 - a. an additional 3% fee for relabeling or removing/hiding markings on box.
 - b. an additional 6% fee for relabeling and repackaging.
6. Request for evaluation for failure mode may be assessed a minimum \$75 evaluation fee if the product is not under warranty. This fee only covers testing the product for basic functionality equivalent to production line testing. Additional fees will be added if cause of failure analysis is requested. Contact Customer Service for evaluation fee quote.

Standard Terms and Conditions

7. Except when incorrect parts are shipped, the following shall apply:
 - a. Replacement units shall be ordered by customer and will be shipped with normal shipping charges
 - b. If a part being returned to DUNGS crosses the US border, the customer shall return parts Delivery Duty Paid (DDP).
8. When incorrect parts are shipped, the following shall apply:
 - a. DUNGS will send replacement parts and will cover of the costs of shipping, including duty and taxes, if applicable.
 - b. For RMAs, DUNGS will pay for shipping to return the part(s), including duty and taxes, if applicable.
9. Accommodation return consideration may not be allowed for assembled items and non-stock products.

15.5 INSTRUCTIONS FOR RETURNS

1. Refer to the Warranty Policy terms (see page 4) for return of product.
2. Obtain an RMA number from Company Customer Service at 1-763-582-1700 or e-mail at: RMARequests@karldungsusa.com
3. Complete the RMA form provided on the Price Book CD with the RMA number obtained from Dungs and place a copy with the returned goods.
4. Clearly mark the outside of all shipping cartons with the RMA number.
5. Except for valve train assemblies, all component pieces originally shipped with the control being returned must be returned in their entirety. For return of valve train assemblies or components of valve trains assemblies contact DUNGS customer service.
6. Purchaser assumes all carrier charges and responsibility for damages in transit unless preauthorized by Karl Dungs, Inc.

16.0. ACCOMMODATION RETURN POLICY AND PROCEDURE

Definition, Purpose and Overview

Accommodation returns of product to Karl Dungs, Inc. (the "Company") are permitted when:

1. Product is ordered in error.
2. Product is incorrectly shipped.
3. Product is ordered correctly but later determined not to be needed.
4. Product is returned for repair.

Nonstock/special order items (items not listed in the price book) cannot be canceled once the purchase order is accepted and acknowledged. Nonstock/special order items cannot be returned under the accommodation return policy. All sales are final.

The purpose of the Accommodation Return Policy and Procedure is to improve customer service through establishment of a consistent system for the control of products returned to the Company. We will make every effort possible to try to meet and exceed our customers' expectations for service. To meet these service expectations, it is important that an RMA (Return Material Authorization) number be assigned to all returned products.

Controls may be returned only upon prior written authorization of the Company for all products returned to the Company.

To obtain authorization for return of products purchased from a Distributor or a Representative contact the Distributor or Representative directly to obtain an RMA number. If the material was purchased directly from the Company, please contact the Company Customer Service Department for an RMA number.

Standard Terms and Conditions

Accommodation and Warranty Returns

1. A Return Material Authorization (RMA) number must be obtained from Dungs prior to the return of any product to Dungs. Please refer to the enclosed RMA form. Purchaser assumes all carrier charges and responsibility for damages in transit unless preauthorized by Karl Dungs, Inc.
2. RMA numbers are valid for 30 Days. If returned goods are not received within 30 days, the RMA number is canceled, and a new RMA number must be obtained.
3. Accommodation return consideration may not be allowed for assembled items and non-stock products.
4. A minimum 15% Restock Fee will be assessed for accommodation if the return product is new, unused and in its original container. If part is returned and needs to be relabeled, or relabeled and boxed, the restock is subject to
 - a. an additional 3% fee for relabeling or removing/hiding markings on box.
 - b. an additional 6% fee for relabeling and repackaging.
5. Request for evaluation for failure mode may be assessed a minimum \$ 75 evaluation fee if the product is not under warranty. This fee only covers testing the product for basic functionality equivalent to production line testing. Additional fees will be added if the cause of failure analysis is requested. Contact Customer Service for evaluation fee quote.
6. Replacement units will be ordered by customer and will be shipped with normal shipping procedures.
7. Nonstock/special order items (items not listed in the price book) cannot be canceled once the purchase order is accepted and acknowledged. Nonstock/special order items cannot be returned under the accommodation return policy.
8. All sales are final.

16.0.1 INSTRUCTIONS FOR RETURNS

1. Refer to the Warranty Policy terms (see page 4) for return of product.
2. Obtain an RMA number from Company Customer Service at 1-763-582-1700 or e-mail at: RMARequests@karldungsusa.com
3. Complete the RMA form provided on the Price Book CD with the RMA number obtained from Dungs and place a copy with the returned goods.
4. Clearly mark the outside of all shipping cartons with the RMA number.
5. Except for valve train assemblies, all component pieces originally shipped with the control being returned must be returned in their entirety. For return of valve train assemblies or components of valve trains assemblies contact DUNGS customer service.
6. Purchaser assumes all carrier charges and responsibility for damages in transit unless preauthorized by Karl Dungs, Inc.

Standard Terms and Conditions

- 16.0.3 Generally, consent, if given, will be upon the condition the Purchaser assumes all carrier charges including; but not limited to: freight, duty and importation cost. The customer is also responsible for damages in transit, and a restocking charge, and then only if the so authorized material is in new and unused condition, in the original packaging and returned within three months (repairs exempted) from the original date of shipment. If a Product is returned for repair, the Company will return the Product under the same shipping terms that the Product was originally sent to the Company. Restocking charges apply to Products returned for credit and do not apply to repair returns. Restock charges are generally 15% of the purchase price but are subject to increase depending on the condition of the packaging, return date versus original shipment date, and other factors that may increase restock costs. For non-stock items, special order, and assemblies that were ordered specifically to a customer specification, returns may not be allowed, or restocking charges might be higher than they would be on a similar stocked Product. Nonstock and special order items are those Products that are not listed in the Company price book pages.
- 16.0.4 Request for evaluation for failure mode may be assessed a minimum \$50 evaluation fee if the Product is not under warranty. Contact Customer Service for evaluation fee quote. When it is necessary to return Products as a result of a Company error; full credit will be issued or the incorrect Product replaced providing the Product is new, unused, and in restockable condition. All returned materials require an RA number, issued by the Company, Products returned without this information may incur processing delays and may be returned freight collect to the shipper. Products must be returned to the Company within thirty (30) days from issuance of an RA number. If Products are not received within 30 days the authorization may become void, and a new RA number will need to be obtained.
- 16.0.5 Packaging and Shipping Instructions for Accommodation Returns
- Package Products carefully and seal to prevent foreign materials from entering Product and damage during transit. The Company is not responsible for damage incurred during transit or as result of insufficient packaging. Print the RA number legibly on the outside of ALL cartons in BOLD visible numbers. Reference the RA number on any documentation returned with Product. Freight collect or COD returns will not be accepted unless approved by the Company in advance of shipment.

Contact the Company for additional information or assistance.

Phone: 763-582-1700

Fax: 763-582-1799

E-mail: RMARRequests@karldungsusa.com

Ship all returns freight prepaid to:

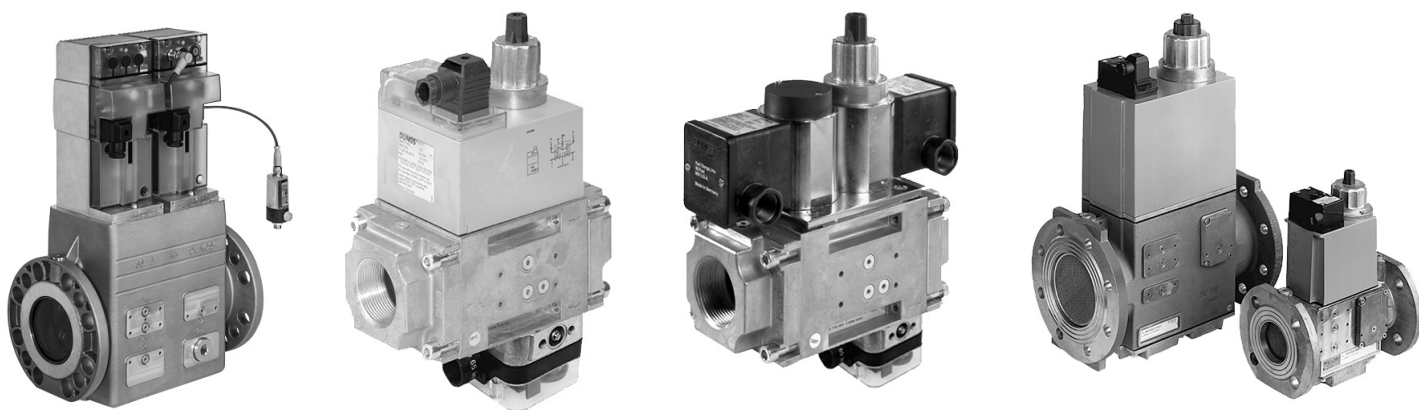
Karl Dungs Inc

3890 Pheasant Ridge Drive NE, Suite 150

Blaine, MN 55449

Dual Modular Valves

Product	Model	Section
Dual Modular Valves - DMV-D(LE)	US	1
Dual Modular Valves with Vent Line Adapter - DMV-D(LE)	US	2
Dual Modular Valves with Proof of Closure -DMV-D(LE)	US	3
Dual Modular Valves with Proof of Closure & Visual Indicator – DMV-D(LE)	US	4
Dual Modular Valves with Proof of Closure & Vent Line Adapter - DMV-D(LE)	US	5
Dual Modular Valves NEMA Type 4x - DMV-D(LE)	US	6
Dual Modular Valves NEMA Type 4x with Vent Line Adapter - DMV-D(LE)	US	7
Dual Modular Valves NEMA Type 4 with Proof of Closure - DMV-D(LE)	US	8
Dual Modular Valves NEMA Type 4x with Proof of Closure & Vent Line Adapter DMV-D(LE)	US	9
Dual Modular Valves High Capacity - DMV-D(LE)	US/EU	10
Dual Modular Valves Flanged version DMV 5.../ 602 ECO	US	11
Dual Modular Valves Flanged version with Proof of Closure DMV 5.../ 6x2 ECO	US	12
Dual Modular Valves NEMA Type 4 Flanged version DMV 5.../ 604 ECO	US	13
Dual Modular Valves NEMA Type 4 Flanged version with Proof of Closure DMV 5.../ 6x4 ECO	US	14
Dual Modular Valves Flanged Versions - DMV-D(LE) 5XXX Series	US/EU	15
Dual Modular Valves Flanged Versions - DMV-D(LE) 500XX Series	EU	16
Dual Modular Valves - DMV-D(LE)	EU	18
Dual Modular Valves Two Stage - DMV-ZRD(LE)	US	19
Dual Modular Valves Two Stage with Proof of Closure - DMV-ZRD(LE)	US	21



DUAL MODULAR VALVES – DMV-D(LE)

Section 1

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/602) combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 1 (V1) of the DMV-D and DMV-DLE series is fast opening and fast closing. Valve 2 (V2) of the DMV-D is fast opening, while V2 of the DMV-DLE is slow-opening for smoother light-off. Max. flow adjustment on V2 provides variable main flow on both models.

Application

The DMV/6 is recommended for industrial and commercial heating applications that require two safety shutoff valves in series. The DMV is suitable for natural gas, propane, butane, air and other inert gases. Hydrogen suitable.

Optional Approvals

Code requirements vary. When ordered and installed with Burkert connector plug (part number 253731), the UL Recognized DMV valve may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795. FM requires visual indication on 1" and larger safety valves. Two visual indicators, (VI) 266949 or one CPI 400 (CPI) 266968, and one VI meet this requirement. These also must be ordered separately.



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV-D(LE) 701/602 DMV-D(LE) 702/602 DMV-D(LE) 703/602
PIPE SIZE/THREAD	(DMV 701) ½"-1" NPT or Rp (DMV 702/703) 1"-2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING (+10% / - 15%)	110-120 VAC/50-60 Hz 24 VAC/50-60 Hz; 24 VDC
ENCLOSURE RATING	NEMA 12
ELECTRICAL CONNECTION	DIN-connector with optional ½" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +150°F (-40°C to +65°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature a manually adjustable flow rate (<10-100%); 100% duty cycle;

Refer to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators, (VI) 266949 or one CPI 400 (CPI) 266968, and one VI meet this requirement. These also must be ordered separately.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
224842	DMV D 701/602 120 VAC, 50-60Hz	\$1,185.42	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL PWB: 238803	1 5.0
224843	DMV D 702/602 120 VAC, 50-60Hz	\$1,442.93	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806	1 10.5
224844	DMV D 703/602 120 VAC, 50-60Hz	\$1,658.53	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806	1 13.6
228220	DMV D 701/602 24 VAC	\$1,185.42	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 238554 REPL PWB: 238803	1 4.8
228221	DMV D 702/602 24 VAC	\$1,442.93	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 238825 REPL PWB: 238806	1 10.5
228222	DMV D 703/602 24 VAC	\$1,658.53	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 12	REPL COIL: 238822 REPL PWB: 238806	1 13.5
226990	DMV D 701/602 24 VDC	\$1,185.42	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 238829 REPL PWB: 238804	1 4.8
226991	DMV D 702/602 24 VDC	\$1,442.93	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 238826 REPL PWB: 238807	1 10.8
226992	DMV D 703/602 24 VDC	\$1,658.53	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 12	REPL COIL: 238823 REPL PWB: 238807	1 13.6

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
224845	DMV DLE 701/602 120 VAC, 50-60Hz	\$1,275.26	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL PWB: 238803 REPL HYDR. BRAKE: 240458	1	5.1
224846	DMV DLE 702/602 120 VAC, 50-60Hz	\$1,532.77	1", 1-1/4", 1-1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1	10.8
224847	DMV DLE 703/602 120 VAC, 50-60Hz	\$1,748.35	1", 1-1/4", 1-1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1	13.8
228223	DMV DLE 701/602 24 VAC	\$1,275.26	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 238554 REPL PWB: 238803 REPL HYDR. BRAKE: 240458	1	5.1
228224	DMV DLE 702/602 24 VAC	\$1,532.77	1", 1-1/4", 1-1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 238825 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1	9.9
228225	DMV DLE 703/602 24 VAC	\$1,748.35	1", 1-1/4", 1-1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 238822 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1	11.8
226993	DMV DLE 701/602 24 VDC	\$1,275.26	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 238829 REPL PWB: 238804 REPL HYDR. BRAKE: 240458	1	4.6
226994	DMV DLE 702/602 24 VDC	\$1,532.77	1", 1-1/4", 1-1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 238826 REPL PBW: 238807 REPL HYDR. BRAKE: 240458	1	11.1
226995	DMV DLE 703/602 24 VDC	\$1,748.35	1", 1-1/4", 1-1/2", 2" NPT OR Rp 80 VA, NEMA 12	REPL COIL: 238823 REPL PBW: 238807 REPL HYDR. BRAKE: 240458	1	13.8

DUAL MODULAR VALVES WITH VENT LINE ADAPTER - DMV-D(LE)

Section 2

Description

The DUNGS Dual Modular Valve with Vent Line Adapter (DMV-VLA) combines all the features of the DUNGS Dual Modular Valve with a factory installed vent line connection between the two automatic shutoff valves. For main gas lines up to 1-1/2", the vent line must be 3/4". For 2" main gas lines the vent line must be 1".

Application

The DMV-VLA is recommended for industrial and commercial heating applications that require two safety shutoff valves in series with a vent line connection between the safety shutoff valves. The DMV-VLA is suitable for natural gas, propane, butane, air and other inert gases. Hydrogen suitable.

Optional Approvals

Code requirements vary. When ordered and installed with Burkert connector plug (PN 253731), the UL Recognized DMV valve may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795. FM requires visual indication on 1" and larger safety valves. Two visual indicators, (VI) 266949 or one CPI 400 (CPI) 266968, and one VI meet this requirement. These must be ordered separately.



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV 701/602 DMV 702/602 DMV 703/602
PIPE SIZE/THREAD	1/2"-1" NPT or Rp 1"-2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING (+10%/-15%)	110-120 VAC/50-60 Hz 24 VAC/50-60 Hz 24 VDC
ENCLOSURE RATING	NEMA 12
ELECTRICAL CONNECTION	DIN-connector with optional 1/2" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +150°F (-29°C to +65°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature

a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection.

Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266969	DMV-D 701/602 W VLA 120 VAC, 50-60Hz	\$1,356.10	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL PWB: 238803	1 4.6
266970	DMV-D 702/602 W VLA 120 VAC, 50-60Hz	\$1,613.62	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806	1 11.6
266971	DMV-D 703/602 W VLA 120 VAC, 50-60Hz	\$1,829.20	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806	1 13.4
266972	DMV-DLE 701/602 W VLA 120 VAC, 50-60Hz	\$1,445.93	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL PWB: 238803 REPL HYDR. BRAKE: 240458	1 4.8
266973	DMV-DLE 702/602 W VLA 120 VAC, 50-60Hz	\$1,703.44	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1 11.7
266974	DMV-DLE 703/602 W VLA 120 VAC, 50-60Hz	\$1,919.04	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1 13.3

DUAL MODULAR VALVE WITH PROOF OF CLOSURE – DMV-D(LE)

Section 3

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/622) combines all the features of the DUNGS Dual Modular Valve DMV-D(LE)/6 plus valve 2 incorporates overtravel and a proof of closure switch which is factory mounted and set.

Application

The DUNGS DMV/622 is recommended for industrial and commercial heating applications that require two safety shutoff valves with valve 2 Incorporating overtravel and a proof of closure switch. The DMV/622 is suitable for natural gas, propane, butane, air and other inert gases. Hydrogen suitable.

Optional Approvals

When ordered and installed with Burkert connector plug (part number 253731), the UL Recognized DMV valve may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795. FM requires visual indication on 1" and larger safety valves. The visual indicator, (VI) 266949 meets this requirement. The visual indicator must be ordered separately for valve 1. Factory mounted and calibrated proof of closure switch: SPDT 10 A resistive, 8 FLA, 48 LRA @ 120 Vac; NEMA 4; - 40°F to +150 °F (-40 °C to +65 °C); Switch incorporates visual indication of valve (opened & closed).



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV 701/622 DMV 702/622 DMV 703/622
PIPE SIZE/THREAD	(DMV 701) ½"-1" NPT or Rp (DMV 702/703) - 1"-2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING (+10% / - 15%)	110-120 VAC/50-60 Hz 24 VAC/50-60 Hz 24 VDC
ENCLOSURE RATING	NEMA 12
ELECTRICAL CONNECTION	DIN-connector with optional ½" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +150°F (-29°C to +65°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature

a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flange must be ordered and priced separately. Code requirements vary.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267061	DMV-D 701/622 120 VAC, 50-60Hz	\$1,574.69	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL PWB: 238803	1 4.6
267016	DMV-D 702/622 120 VAC, 50-60Hz	\$1,832.20	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806	1 10.2
267022	DMV-D 703/622 120 VAC, 50-60Hz	\$2,047.79	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806	1 11.8
267067	DMV-DLE 701/622 120 VAC, 50-60Hz	\$1,664.52	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL HYDR. BRAKE: 240458	1 4.8
267019	DMV-DLE 702/622 120 VAC, 50-60Hz	\$1,922.03	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1 10.4
267025	DMV-DLE 703/622 120 VAC, 50-60Hz	\$2,137.62	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1 12.0

DUAL MODULAR VALVES WITH PROOF OF CLOSURE & VISUAL INDICATOR – DMV-D(LE)

Section 4

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/622) combines all the features of the DUNGS Dual Modular Valve DMV-D(LE)/6 plus valve 2 incorporates overtravel and a proof of closure switch which is factory mounted and set. The Visual Indicator (VI) (266949) is factory mounted to Valve 1 (V1).

Application

The DUNGS DMV/622 is recommended for industrial and commercial heating applications that require two safety shutoff valves with valve 2 incorporating overtravel and a proof of closure switch. The DMV/622 is suitable for natural gas, propane, butane, air and other inert gases. Hydrogen suitable.

Optional Approvals

When ordered and installed with Burkert connector plug (part number 253731), the UL Recognized DMV valve may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795. FM requires visual indication on 1" and larger safety valves. The visual indicator, (VI) 266949 meets this requirement. The visual indicator must be ordered separately for valve 1. Factory mounted and calibrated proof of closure switch: SPDT 10 A resistive, 8 FLA, 48 LRA @ 120 Vac; NEMA 4; -40°F to +150 °F (-40 °C to +65 °C); Switch incorporates visual indication of valve (opened & closed).



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV 701/622 DMV 702/622 DMV 703/622
PIPE SIZE/THREAD	(DMV 701) 1/2"-1" NPT or Rp (DMV 702/703) - 1"-2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING (+10%/-15%)	110-120 VAC/50-60 Hz 24 VAC/50-60 Hz 24 VDC
ENCLOSURE RATING	NEMA 12
ELECTRICAL CONNECTION	DIN-connector with Optional 1/2" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +150°F (-29°C to +65°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature

a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately. Code requirements vary.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267062	DMV-D 701/622 W/VI 120 VAC, 50-60 Hz	\$1,630.14	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL PWB: 238803	1	4.7
267017	DMV-D 702/622 W/VI. 120 VAC, 50-60 Hz	\$1,887.65	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806	1	10.3
267023	DMV-D 703/622 W/VI. 120 VAC, 50-60 Hz	\$2,103.25	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806	1	12.0
273438	DMV-D 701/622 W/VI 24VDC	\$1,759.14	1/2" 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 238829 REPL PWB: 238804	1	4.7
273439	DMV-D 702/622 W/VI 24VDC	\$2,016.64	1/2" 3/4" 1" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 238826 REPL PWB: 238807	1	10.3
273440	DMV-D 703/622 W/VI 24VDC	\$2,232.24	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 238823 REPL PWB: 238807	1	10.7
267068	DMV-DLE 701/622 W/VI 120 VAC, 50-60 Hz	\$1,719.97	1/2", 3/4", 1" NPT OR Rp 45 VA, NEMA 12	REPL COIL: 232401 REPL PWB: 238803 REPL HYDR. BRAKE: 240458	1	4.9

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267020	DMV-DLE 702/622 W/VI 120 VAC, 50-60 Hz	\$1,977.49	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	REPL COIL: 232402 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1 10.7
267026	DMV-DLE 703/622 W/VI 120 VAC, 50-60 Hz	\$2,193.07	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	REPL COIL: 232403 REPL PWB: 238806 REPL HYDR. BRAKE: 240458	1 12.2

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/622) incorporates overtravel and a proof of closure switch which is factory mounted and set with a Vent Line Adapter (VLA) that is also factory installed. For main gas lines up to 1½" the vent line must be ¾". For 2" main gas lines the vent line must be 1".

Application

The DMV-VLA is recommended for industrial and commercial heating applications that require two safety shutoff valves with valve 2 incorporating overtravel and a proof of closure switch and a vent line connection between the safety shutoff valves. The DMV-D(LE) is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.

Optional Approvals

When ordered and installed with Burkert connector plug (part number 253731), the UL Recognized DMV valve may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795. FM requires visual indication on 1" and larger safety valves. The visual indicator, (VI) 266949 meets this requirement. The visual indicator must be ordered separately for valve 1. Factory mounted and calibrated proof of closure switch: SPDT 10 A resistive, 8 FLA, 48 LRA @ 120 Vac; NEMA 4; -40°F to +150°F (-40°C to +65°C); Switch incorporates visual indication of valve (opened & closed).



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV 701/622 DMV 702/622 DMV 703/622
PIPE SIZE/THREAD	(DMV 701) ½"-1" NPT or Rp (DMV 702/703) - 1"-2" NPT or Rp
VENT LINE CONNECTION	¾" NPT (DMV 701), 1" NPT (DMV 702/703)
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING (+10%/-15%)	110-120 VAC/50-60 Hz 24 VAC/50-60 Hz 24 VDC
ENCLOSURE RATING	NEMA 12
ELECTRICAL CONNECTION	DIN-connector with optional ½" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +150°F (-29°C to +65°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature

a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately. Code requirements vary.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267063	DMV-D 701/622 W/VLA 120 VAC, 50-60 Hz	\$1,745.37	3/4", 1/2", 1" NPT OR Rp 45 VA, NEMA 12	1	5.1
267018	DMV-D 702/622 W/VLA 120 VAC, 50-60 Hz	\$2,002.87	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	1	10.7
267024	DMV-D 703/622 W/VLA 120 VAC, 50-60 Hz	\$2,218.47	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	1	12.3
267069	DMV-DLE 701/622 W/VLA 120 VAC, 50-60 Hz	\$1,835.19	3/4", 1/2", 1" NPT OR Rp 45 VA, NEMA 12	1	5.2
267021	DMV-DLE 702/622 W/VLA 120 VAC, 50-60 Hz	\$2,092.71	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 12	1	10.8
267027	DMV-DLE 703/622 W/VLA 120 VAC, 50-60 Hz	\$2,308.30	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 12	1	12.4

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/604) combines two normally closed, automatic shutoff valves in one compact housing (Rated as a NEMA 4x enclosure), which can be wired independently or in parallel. Valve 1 (V1) of the DMV-D and DMV-DLE series is fast opening and fast closing.

Valve 2 (V2) of the DMV-D is fast opening, while V2 of the DMV-DLE is slow-opening for smoother light-off. Max. flow adjustment on V2 provides variable main flow on both models.

Application

The DUNGS DMV-D(LE)/604 is recommended for industrial and commercial heating applications that require two safety shutoff valves in series with a NEMA 4x enclosure. The (DMV-D(LE)/604) is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV-D(LE) 702/604 DMV-D(LE) 703/604 DMV-D(LE) 704/604
PIPE SIZE/THREAD	(DMV 702/703) - 1"-2" NPT or Rp (DMV 704) 2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING	110-120 VAC/50-60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 4X
ELECTRICAL CONNECTION	Screw terminals with optional 1/2" NPT conduit connection
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	(DMV 702 & 703) -20°F to +140°F (-30°C to +60°C) (DMV 704) +5°F to +140°F (-15°C to +60°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to

Flow Curves for Body Selection. Flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators, (VI) 266949 or one CPI 400 (CPI) 266968, and one VI meet this requirement. These also must be ordered separately.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
240610	DMV-D 702/604 120 VAC, 50-60 Hz	\$1,772.49	1", 1 1/4", 1 1/2", 2" NPT OR Rp 60 VA, NEMA 4X	REPL COIL: 246515 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY)	2 10.6
241436	DMV-D 703/604 120 VAC, 50-60 Hz	\$2,041.99	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 4X	REPL COIL: 246516 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY)	2 11.9
293818	DMV-D 704/604 120 VAC, 50-60 Hz	\$3,060.06	2" NPT OR Rp 110 VA, NEMA 4X; CSA APPROVED ONLY	REPL COIL: 246517 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY)	2 10.8
240805	DMV-DLE 702/604 120 VAC, 50-60 Hz	\$1,865.05	1", 1 1/4", 1 1/2", 2" NPT OR Rp 60 VA, NEMA 4X	REPL COIL: 246515 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY) REPL HYDRAULIC BRAKE: 240458	2 10.8
241435	DMV-DLE 703/604 120 VAC, 50-60 Hz	\$2,134.53	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 4X	REPL COIL: 246516 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY) REPL HYDRAULIC BRAKE: 240458	2 13.1
293817	DMV-DLE 704/604 120 VAC, 50-60 Hz	\$3,152.61	2" NPT OR Rp 110 VA, NEMA 4X; CSA APPROVED ONLY	REPL COIL: 246517 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY) REPL HYDRAULIC BRAKE: 240458	2 10.8

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/604) with a Vent Line Adapter (VLA) that is factory installed. For main gas lines up to 1½" the vent line must be ¾". For 2" main gas lines the vent line must be 1".

Application

The DUNGS DMV-D(LE)/604 is recommended for industrial and commercial heating applications that require two safety shutoff valves in series with a vent line connection between the safety shutoff valves and NEMA 4x enclosure. The DMV-D(LE)/604 is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.



[DUNGS Product Reference Material](#)

Specifications

BODY SIZES	DMV 702/604 DMV 703/604 (DMV 702/703) 1"-2" NPT or Rp
PIPE SIZE/THREAD	1" NPT
VENT LINE CONNECTION	1" NPT
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING	110-120 VAC/50-60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 4X
ELECTRICAL CONNECTION	Screw terminals with optional ½" NPT conduit connection
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	20°F to +140°F (-30°C to +60°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to

Flow Curves for Body Selection. Flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators (VI) 266949, or one CPI 400 (CPI) 266968 and one VI meet this requirement. These also must be ordered separately.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267046	DMV-D 702/604 W/VLA 120 VAC 50-60 Hz	\$1,943.18	1", 1 1/4", 1 1/2", 2" NPT OR Rp 60 VA, NEMA 4X	REPL COIL: 246515 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY)	2	10.5
241-436V	DMV-D 703/604 W/VLA 120 VAC 50-60 Hz	POR	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 4X	REPL COIL: 246516 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY)	2	12.3
267047	DMV-DLE 702/604 W/VLA 120 VAC 50-60 Hz	\$2,035.72	1", 1 1/4", 1 1/2", 2" NPT OR Rp 60 VA, NEMA 4X	REPL COIL: 246515 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY) REPL HYDR BRAKE: 240458	2	10.6
267049	DMV-DLE 703/604 W/VLA 120 VAC 50-60 Hz	\$2,305.22	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 4X	REPL COIL: 246516 (VALVE REQUIRES 2 COILS, SOLD INDIVIDUALLY) REPL HYDR BRAKE: 240458	2	12.2

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/624; 634) with Proof of Closure combines all the features of the DUNGS Dual Modular Valve DMV/604 plus overtravel and a proof of closure switch which is factory mounted and set.

Application

The DUNGS DMV/624; 634 is recommended for industrial and commercial heating applications that require two safety shutoff valves in series where the application requires overtravel and a proof of closure switch(s) and NEMA 4x enclosure. The DMV-D(LE)/624; 634 is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV-D(LE) 702/624 DMV-D(LE) 703/624 DMV-D(LE) 704/624; 634
PIPE SIZE/THREAD	(DMV 702/703) 1"-2" NPT or Rp (DMV 704) 2" NPT or Rp
VENT LINE CONNECTION	1" NPT
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING	110-120 VAC/50-60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 4
ELECTRICAL CONNECTION	Screw terminals with optional ½" NPT conduit connection
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	DMV 702/703: -20°F to +140°F (-30°C to +60°C) DMV 704: +5°F to +140°F (-15°C to +60°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. DMV/624 Includes 1 POC switch, DMV/634 includes 2 POC switches. Flanges must be ordered and

priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. The visual indicator, (VI) 266949 meets this requirement. The visual indicator must be ordered separately for valve 1. Factory mounted and calibrated proof of closure switch: SPDT 10 A resistive, 8 FLA, 48 LRA @ 120 Vac; NEMA 4; - 40 °F to +150 °F (-40 °C to +65 °C); Switch incorporates visual indication of valve (opened & closed).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267086	DMV-D 702/624 120 VAC 50-60 Hz	\$1,997.08	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 4	2	10.2
267084	DMV-D 703/624 120 VAC 50-60 Hz	\$2,266.56	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 4	2	11.9
267051	DMV-D 704/624 120 VAC 50-60 Hz	\$3,284.63	2" NPT OR Rp 110 VA, NEMA 4X CSA APPROVED ONLY	2	26.6
267052	DMV-D 704/634 120 VAC 50-60 Hz	\$3,673.90	2" NPT OR Rp 110 VA, NEMA 4 POC on BOTH Valves CSA APPROVED ONLY	2	26.6

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267088	DMV-DLE 702/624 120 VAC 50-60 Hz	\$2,089.62	1", 1 1/4", 1 1/2", 2" NPT OR Rp 65 VA, NEMA 4	2	10.4
			REPL COIL : 246515 (SOLD INDIVIDUALLY) REPL HYDR BRAKE: 240458		
267082	DMV-DLE 703/624 120 VAC 50-60 Hz	\$2,359.11	1", 1 1/4", 1 1/2", 2" NPT OR Rp 90 VA, NEMA 4	2	12.0
			REPL COIL: 246516 (SOLD INDIVIDUALLY) REPL HYDR BRAKE: 240458		
267053	DMV-DLE 704/624 120 VAC 50-60 Hz	\$3,377.18	2" NPT OR Rp 110 VA, NEMA 4 POC on Valve 2 ONLY CSA APPROVED ONLY	2	27.0
			REPL COIL: 246517 (SOLD INDIVIDUALLY)		
267054	DMV-DLE 704/634 120 VAC 50-60 Hz	\$3,766.45	2" NPT OR Rp 110 VA, NEMA 4 POC on BOTH Valves CSA APPROVED ONLY	2	27.0
			REPL COIL: 246517 (SOLD INDIVIDUALLY) REPL HYDR BRAKE: 240458		

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/624) incorporates overtravel and a proof of closure switch which is factory mounted and set with a Vent Line Adapter (VLA) that is also factory installed. For main gas lines up to 1½", the vent line must be ¾". For 2" main gas lines, the vent line must be 1".

Application

The DMV-VLA is recommended for industrial and commercial heating applications that require two safety shutoff valves with valve 2 incorporating overtravel and a proof of closure switch with a vent line connection between the safety shutoff valves and NEMA 4 enclosure. The DMV-D(LE)/624 is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV 702/624 DMV 703/624
PIPE SIZE/THREAD	DMV 702/703) 2" NPT or Rp
VENT LINE CONNECTION	1" NPT
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING	110-120 VAC/50-60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 4X
ELECTRICAL CONNECTION	Screw terminals with optional ½" NPT conduit connection
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +140°F (-30°C to +60°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. Includes 1 POC switch. Flanges must

be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. The visual indicator, (VI) 266949 meets this requirement. The visual indicator must be ordered separately for valve 1. Factory mounted and calibrated proof of closure switch: SPDT 10 A resistive, 8 FLA, 48 LRA @ 120 Vac; NEMA 4; -40 °F to +150 °F (-40 °C to +65 °C); Switch incorporates visual indication of valve (opened & closed).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267087	DMV-D 702/624 W/VLA 120 VAC 50-60 Hz	\$2,167.75	1", 1 1/4", 1 1/2", 2" NPT OR Rp 60 VA, NEMA 4X	2	10.9
267085	DMV-D 703/624 W/VLA 120 VAC 50-60 Hz	\$2,437.23	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 4X	2	12.5
267089	DMV-DLE 702/624 W/VLA 120 VAC (+10%/-15%) 50-60 Hz	\$2,260.29	1", 1 1/4", 1 1/2", 2" NPT OR Rp 60 VA, NEMA 4X	2	11.0
267083	DMV-DLE 703/624 W/VLA 120 VAC 50-60 Hz	\$2,529.79	1", 1 1/4", 1 1/2", 2" NPT OR Rp 80 VA, NEMA 4X	2	12.6

Description

The DUNGS Dual Modular Valve (DMV) combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 1 (V1) of the DMV, DMV-D, and DMV-DLE series is fast opening and fast closing. Valve 2 (V2) of the DMV-D is fast opening, while V2 of the DMV-DLE is slow-opening for smoother light-off. Max. flow adjustment on V1 provides variable main flow on the DMV-D and DMV-DLE models.

Application

The DMV/11 is recommended for industrial and commercial heating applications that require two safety shutoff valves in series. The DMV is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.



[DUNGS Product Reference Material](#)

Specifications

PIPE SIZE/THREAD	2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) FM, CE (Class A) 5 PSI (360 mbar) CSA
ELECTRICAL RATING	110-120 VAC/50-60 Hz
(+10% / -15%)	24 VAC/50-60 Hz
	24 VDC
ENCLOSURE RATING	NEMA 12
ELECTRICAL CONNECTION	DIN-connector with optional 1/2" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV, DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on DMV-D and DMV-DLE feature a manually adjustable flow rate (<10-100%); 100%

duty cycle; Refer to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. A combination of visual indicators, (VI) 266949 and CPI 400 (CPI) 266968, meet this requirement. These also must be ordered separately).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
223368	DMV-D 525/11 110 VAC 50-60 Hz	\$2,841.02	2" NPT OR Rp 110 VA, NEMA 12	3	28.2
223367	DMV-D 525/11 220 VAC 50-60 Hz	\$2,841.02	2" NPT OR Rp 110 VA, NEMA 12	3	26.6
223370	DMV-D 525/11 24 VDC	\$2,841.02	2" NPT OR Rp 110 VA, NEMA 12	3	28.2
223374	DMV-DLE 525/11 110 VAC 50-60 Hz	\$2,938.96	2" NPT OR Rp 110 VA, NEMA 12	3	28.2
223373	DMV-DLE 525/11 220 VAC 50-60 Hz	\$2,938.96	2" NPT OR Rp 110 VA, NEMA 12	3	27.7
223376	DMV-DLE 525/11 24 VDC	\$2,938.96	2" NPT OR Rp 110 VA, NEMA 12	3	26.2

Description

The DUNGS DMV 5.../602 ECO valve combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 1 (V1) of the DMV ECO, and DMV-DLE ECO series is fast opening and fast closing. Valve 2 (V2) of the DMV eco is fast opening, while V2 of the DMV-DLE ECO is slow opening for smoother start-up conditions. Max. flow adjustment on V2 provides variable main flow on both models.

Application

The DMV 5.../602 ECO valve is recommended for industrial and commercial gas consuming applications that require two safety shutoff valves in series. The DMV 5.../602 ECO valve is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable. Viton version is suitable for corrosive gases up to 100% Humidity and 1% H₂S (Contact Dungs for more details).

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

PIPE SIZE	DN 65 to DN 125 (2½"-5")
MAX. OPERATING PRESSURE	7 PSI (500 mbar) FM, CSA, CE
ELECTRICAL RATING	110-120 VAC/50-60 Hz
(+10% / -15%)	230-240 VAC/50-60 Hz
START/HOLD POWER CONSUMPTION	24 VDC
WITH ALL COILS ENERGIZED	DMV(DLE) 5065 ECO 6X2: 130/32VA
	DMV(DLE) 5080 ECO 6X2: 190/40VA
	DMV(DLE) 5100/5125 ECO 6X2: 250/50VA
ENCLOSURE RATING	NEMA 12 / IP54
ELECTRICAL CONNECTION	DIN-connector with optional ½" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	NBR Seat: +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON Seat (CSA): +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON Seat (EN161): +32°F to +140°F (0°C to +60°C)

Aluminum Body; Inlet, intermediate and outlet side taps (G 1/8 ISO 228); inlet gas strainer installed in the housing upstream V1 (23 mesh screen); DMV ECO - V1 Fast Opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE ECO - V1 fast opening & closing (<1s), V2 slow opening 20s MAX @ 70F & fast closing (<1s); V2 on DMV-DLE ECO features a manually adjustable flow rate (<10-100%); 100% duty cycle;

Refer to Flow Curves for Body Selection. Conduit Adapter (240671); Din connector (210319), and ISO mating flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators, (VI) 266949 or one CPI 400 (CPI) 266968 and one VI meet this requirement. These also must be ordered separately.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267158	DMV 5065/602 ECO 110 VAC 50-60 Hz	\$3,653.35	DN 65 to ISO 7005-1 PN16 NBR NEMA 12	3	22.0
267154	DMV 5080/602 ECO 110 VAC 50-60 Hz	\$5,183.40	DN 80 to ISO 7005-1 PN16 NBR NEMA 12	3	35.9
267157	DMV 5100/602 ECO 110 VAC 50-60 Hz	\$6,804.39	DN 100 to ISO 7005-1 PN16 NBR NEMA 12	3	53.4
267156	DMV 5125/602 ECO 110 VAC 50-60 Hz	\$10,447.28	DN 125 to ISO 7005-1 PN16 NBR NEMA 12	3	69.9
267164	DMV 5065/602 ECO 24 VDC	\$3,653.35	DN 65 to ISO 7005-1 PN16 NBR NEMA 12	3	22.0
267166	DMV 5080/602 ECO 24 VDC	\$5,183.40	DN 80 to ISO 7005-1 PN16 NBR NEMA 12	3	35.9
267168	DMV 5100/602 ECO 24 VDC	\$6,804.39	DN 100 to ISO 7005-1 PN16 NBR NEMA 12	3	53.4
267169	DMV 5125/602 ECO 24 VDC	\$10,447.28	DN 125 to ISO 7005-1 PN16 NBR NEMA 12	3	69.9
267171	DMV 5080/602 ECO 24VDC	\$6,177.98	DN 80 to ISO 7005-1 PN16 VITON NEMA 12	3	35.9

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267172	DMV 5100/602 ECO 24VDC	\$7,799.03	DN 100 to ISO 7005-1 PN16 VITON NEMA 12	REPL COIL 248504 REPL PWB 257604	3	53.4
267173	DMV 5125/602 ECO 24VDC	\$11,441.87	DN 125 to ISO 7005-1 PN16 VITON NEMA 12	REPL COIL 248505 REPL PWB 257604	3	69.9
267162	DMV-DLE 5065/602 ECO 110 VAC 50-60 Hz	\$3,748.95	DN 65 to ISO 7005-1 PN16 NBR NEMA 12	REPL COIL 256632 NO REPL PWB AVL REPL HYDR BRAKE 223158	3	22.0
267165	DMV-DLE 5080/602 ECO 110 VAC 50-60 Hz	\$5,279.06	DN 80 to ISO 7005-1 PN16 NBR NEMA 12	Repl Coil 262826 Repl PWB 262827 Repl Hydr Brake 223158	3	36.4
269343	DMV-DLE 5100/602 ECO 110 VAC 50-60 Hz	\$6,423.45	DN 100 to ISO 7005-1 PN16 NBR NEMA 12	REPL COIL 262825 REPL PWB 262827 REPL HYDR BRAKE 223157	3	54.0
269348	DMV-DLE 5125/602 ECO 110 VAC 50-60 Hz	\$9,808.62	DN 125 to ISO 7005-1 PN16 NBR NEMA 12	REPL COIL 262824 REPL PWB 262827 REPL HYDR BRAKE 223157	3	70.6

DUAL MODULAR VALVES FLANGED VERSION W/PROOF OF CLOSURE DMV 5.../6X2 ECO

Section 12

Description

The DUNGS Flanged Dual Modular Valve (DMV 5.../622 ECO; 632 ECO) combines all the features of the DUNGS DMV 5.../602 ECO valve plus overtravel and a proof of closure (POC) switch which is factory mounted and set on V2 for the /622 and on both valves for the /632.

Application

The DMV 5.../622; 632 ECO is recommended for industrial and commercial gas consuming applications that require two safety shutoff valves in series. The DMV 5.../622; 632 ECO is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable. Viton version is suitable for corrosive gases up to 100% Humidity and 1% H₂S (Contact Dungs for more details).

Optional Approvals

N/A



DUNGS Product Reference Material



Specifications

PIPE SIZE	DN 65 to DN 125 (2½"-5")
MAX. OPERATING PRESSURE	7 PSI (500 mbar) FM, CSA, CE
ELECTRICAL RATING	110-120 VAC/50-60 Hz
(+10% / -15%)	230-240 VAC/50-60 Hz
START/HOLD POWER CONSUMPTION	24 VDC
WITH ALL COILS ENERGIZED	DMV(DLE) 5065 ECO 6X2: 130/32VA
	DMV(DLE) 5080 ECO 6X2: 190/40VA
	DMV(DLE) 5100/5125 ECO 6X2: 250/50VA
ENCLOSURE RATING	NEMA 12 / IP54
ELECTRICAL CONNECTION	DIN-connector with Optional ½" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	NBR Seat: +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON Seat (CSA): +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON Seat (EN161): +32°F to +140°F (0°C to +60°C)

Aluminum Body; Inlet, intermediate and outlet side taps (G 1/8 ISO 228); inlet gas strainer installed in the housing upstream V1 (23 mesh screen); DMV ECO – V1 Fast Opening & closing (<1 s); V2 fast opening & closing (<1 s); DMV-DLE ECO - V1 fast opening & closing (<1s), V2 slow opening 20s MAX @ 70F & fast closing (<1s); V2 on DMV-DLE ECO features a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. ECO/622 has POC mounted to V2, ECO/632 has POC mounted to V1 and V2. Conduit Adapter (240671), Din connector (210319), and ISO mating flanges must be

ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators (VI) 266949 or one CPI 400 (CPI) 266968 and one VI meet this requirement. These also must be ordered separately for V1 for the ECO/622 valve. Factory mounted and calibrated proof of closure switch: SPDT 5 A resistive, 2 FLA, 48 LRA @ 120 VAC; 1A @ 24 VDC; NEMA 12; +5°F to +140°F (-15°C to +60°C). Switch incorporates visual indication of valve (opened & closed).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
269335	DMV 5065/622 ECO 110VAC, 50-60 Hz	\$3,798.50	DN 65 to ISO 7005-1 PN16 NBR POC on VALVE 2	3	22.1
269330	DMV 5080/622 ECO 110VAC, 50-60 Hz	\$5,221.78	DN 80 to ISO 7005-1 PN 16 NBR POC on VALVE 2	3	36.4
269333	DMV 5100/622 ECO 110VAC, 50-60 Hz	\$6,729.67	DN 100 to ISO 7005-1 PN 16 NBR POC on VALVE 2	3	53.5
269331	DMV 5125/622 ECO 110VAC, 50-60 Hz	\$10,118.41	DN 125 to ISO 7005-1 PN 16 NBR POC on VALVE 2	3	70.0
269338	DMV 5065/622 ECO 24VDC	\$3,798.50	DN 65 to ISO 7005-1 PN16 NBR POC on VALVE 2	3	22.1
267167	DMV 5080/622 ECO 24VDC	\$5,221.78	DN 80 to ISO 7005-1 PN 16 NBR POC on VALVE 2	3	36.0
269346	DMV 5100/622 ECO 24VDC	\$6,729.67	DN 100 to ISO 7005-1 PN 16 NBR POC on VALVE 2	3	53.5
269351	DMV 5125/622 ECO 24VDC	\$10,118.41	DN 125 to ISO 7005-1 PN 16 NBR POC on VALVE 2	3	70.0

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
269352	DMV 5080/622 ECO 24VDC	\$6,875.27	DN 80 to ISO 7005-1 PN16 VITON POC on VALVE 2	REPL COIL 248503 REPL PWB 257604	3 36.0
269354	DMV 5100/622 ECO 24VDC	\$6,547.07	DN 100 to ISO 7005-1 PN 16 VITON POC on VALVE 2	REPL COIL 248504 REPL PWB 257604	3 53.5
269356	DMV 5125/622 ECO 24VDC	\$12,150.01	DN 125 to ISO 7005-1 PN 16 VITON POC on VALVE 2	Repl Coil 248505 Repl PWB 257604	3 70.0
269336	DMV 5065/632 ECO 110VAC, 50-60Hz	\$4,198.51	DN 65 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 253713 REPL PWB 257137	3 22.2
267155	DMV 5080/632 ECO 110VAC, 50-60Hz	\$5,621.82	DN 80 to ISO 7005-1 PN 16 NBR POC on BOTH VALVES	REPL COIL 253713 REPL PWB 257137	3 35.9
269334	DMV 5100/632 ECO 110VAC, 50-60Hz	\$7,129.69	DN 100 to ISO 7005-1 PN 16 NBR POC on BOTH VALVES	REPL COIL 253677 REPL PWB 257137	3 53.6
269332	DMV 5125/632 ECO 110VAC, 50-60Hz	\$10,518.45	DN 125 to ISO 7005-1 PN 16 NBR POC on BOTH VALVES	REPL COIL 253676 REPL PWB 257137	3 70.1
269339	DMV 5065/632 ECO 24VDC	\$4,198.51	DN 65 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 256633 NO REPL PWB AVL	3 22.2
269342	DMV 5080/632 ECO 24VDC	\$5,621.82	DN 80 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 248503 REPL PWB 257604	3 36.1
269347	DMV 5100/632 ECO 24VDC	\$7,129.69	DN 100 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 248504 REPL PWB 257604	3 53.6
267170	DMV 5125/632 ECO 24VDC	\$10,518.45	DN 125 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 248505 REPL PWB 257604	3 70.1
269353	DMV 5080/632 ECO VITON SEAT, 24VDC	\$6,547.07	DN 80 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 248503 REPL PWB 257604	3 36.1
269355	DMV 5100/632 ECO VITON SEAT, 24VDC	\$8,054.96	DN 100 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 248504 REPL PWB 257604	3 53.6
269357	DMV 5125/632 ECO VITON SEAT, 24VDC	\$11,443.67	DN 125 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 248505 REPL PWB 257604	3 70.1
269337	DMV DLE 5065/622 ECO 110VAC, 50-60Hz	\$3,721.36	DN 65 to ISO 7005-1 PN16 NBR POC on VALVE 2	REPL COIL 256632 REPL PWB 262827 REPL HYDR BRAKE 223158	3 22.1
269340	DMV DLE 5080/622 ECO 110VAC, 50-60Hz	\$5,170.26	DN 80 to ISO 7005-1 PN 16 NBR POC on VALVE 2	REPL COIL 262826 REPL PWB 262827 REPL HYDR BRAKE 223158	3 36.5
269344	DMV DLE 5100/622 ECO 110VAC, 50-60Hz	\$7,294.71	DN 100 to ISO 7005-1 PN16 NBR POC on VALVE 2	REPL COIL 262825 REPL PWB 262827 REPL HYDR BRAKE 223157	3 54.1
269349	DMV DLE 5125/622 ECO 110VAC, 50-60Hz	\$11,313.75	DN 125 to ISO 7005-1 PN16 NBR POC on VALVE 2	REPL COIL 262824 REPL PWB 262827 REPL HYDR BRAKE 223157	3 70.7
267163	DMV DLE 5065/632 ECO 110VAC, 50-60Hz	\$4,592.61	DN 65 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 256632 NO REPL PWB AVL REPL HYDR BRAKE 223158	3 22.2
269341	DMV DLE 5080/632 ECO 110VAC, 50-60Hz	\$6,038.97	DN 80 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 262826 REPL PWB 262827 REPL HYDR BRAKE 223158	3 36.6
269345	DMV DLE 5100/632 ECO 110VAC, 50-60Hz	\$8,165.99	DN 100 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 262825 REPL PWB 262827 REPL HYDR BRAKE 223157	3 54.2
269350	DMV DLE 5125/632 ECO 110VAC, 50-60Hz	\$12,217.66	DN 125 to ISO 7005-1 PN16 NBR POC on BOTH VALVES	REPL COIL 262824 REPL PWB 262827 REPL HYDR BRAKE 223157	3 70.8

Description

The DUNGS DMV 5.../604 ECO valve combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 1 (V1) of the DMV eco, and DMV-DLE ECO series is fast opening and fast closing. Valve 2 (V2) of the DMV ECO is fast opening, while V2 of the DMV-DLE ECO is slow opening for start-up conditions. Max. flow adjustment on V2 provides variable main flow on both models.

Application

The DMV 5.../604 ECO valve is recommended for industrial and commercial gas consuming applications that require two safety shutoff valves in series. The DMV 5.../604 ECO valve is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable. Viton version is suitable for corrosive gases up to 100% Humidity and 1% H₂S (Contact Dungs for more details).

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

PIPE SIZE	DN 65 TO DN 125 (2½" – 5")
MAX. OPERATING PRESSURE	7 PSI (500 mbar) FM, CSA, CE
ELECTRICAL RATING	110 – 120 VAC/50-60 Hz
(+10% / -15%)	230-240 VAC/50-60 Hz
START/HOLD POWER CONSUMPTION	24 VDC
WITH ALL COILS ENERGIZED	DMV-D(LE) 5065 ECO 6X4: 130/32VA
	DMV-D(LE) 5080 ECO 6X4: 190/40VA
	DMV-D(LE) 5100/5125 ECO 6X4: 250/50VA
ENCLOSURE RATING	NEMA 4 / IP 65
ELECTRICAL CONNECTION	DIN-connector with Optional ½" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	NBR Seat: +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON Seat (CSA): +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON Seat (EN161): +32°F to +140°F (0°C to +60°C)

Aluminum Body; Inlet, intermediate and outlet side taps (G 1/8 ISO 228); inlet gas strainer installed in the housing upstream V1 (23 mesh screen); DMV eco – V1 Fast Opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE ECO - V1 fast opening & closing (<1s), V2 slow opening 20s MAX @ 70F & fast closing (<1s); V2 on DMV-DLE ECO features a manually adjustable flow rate (<10-100%); 100% duty cycle;

Refer to Flow Curves for Body Selection. Conduit Adapter (240671); Din connector (210319), and mating ISO flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators, (VI) 266949 or one CPI 400 (CPI) 266968 and one VI meet this requirement. These also must be ordered separately.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
269396	DMV 5065/604 ECO 110 VAC 50-60 Hz	\$3,584.18	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 255-478-4 NO REPL PCB AVL	3 22.0
269386	DMV 5080/604 ECO 110 VAC 50-60 Hz	\$5,088.68	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 288741 NO REPL PCB AVL	3 35.9
269393	DMV 5100/604 ECO 110 VAC 50-60 Hz	\$7,004.90	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 253-677-4 NO REPL PCB AVL	3 53.4
269389	DMV 5125/604 ECO 110 VAC 50-60 Hz	\$11,446.97	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 253-676-4 NO REPL PCB AVL	3 69.9
267183	DMV 5065/604 ECO 24 VDC	\$3,584.18	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262451 NO REPL PCB AVL	3 22.0
269404	DMV 5080/604 ECO 24 VDC	\$5,088.68	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-503-4 NO REPL PCB AVL	3 35.9
269410	DMV 5100/604 ECO 24 VDC	\$7,004.90	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-504-4 NO REPL PCB AVL	3 53.4
269416	DMV 5125/604 ECO 24 VDC	\$11,446.97	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 279168 NO REPL PCB AVL	3 70.6

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
269399	DMV-DLE 5065/604 ECO 110 VAC 50-60 Hz	\$3,673.10	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 256-632-4 NO REPL PCB AVL REPL HYDR BRAKE 223158	3	22.0
269402	DMV-DLE 5080/604 ECO 110 VAC 50-60 Hz	\$5,177.61	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-826-4 NO REPL PCB AVL REPL HYDR BRAKE 223158	3	36.4
269407	DMV-DLE 5100/604 ECO 110 VAC 50-60 Hz	\$7,098.64	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-825-4 NO REPL PCB AVL REPL HYDR BRAKE 223157	3	54.0
269413	DMV-DLE 5125/604 ECO 110 VAC 50-60 Hz	\$11,535.96	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-824-4 NO REPL PCB AVL REPL HYDR BRAKE 223157	3	70.6

DUAL MODULAR VAVLES NEMA 4 FLANGED WITH POC DMV 5.../6X4 ECO

Section 14

Description

The DUNGS Flanged Dual Modular Valve (DMV 5.../624; 634) combines all the features of the DUNGS DMV 5.../11 ECO 604 valve plus overtravel and a proof of closure switch which is factory mounted and set on V2 for the /624 and on both valves for /634.

Application

The DMV 5.../624; 634 is recommended for industrial and commercial gas consuming applications that require two safety shutoff valves in series. The DMV 5.../624; 634 is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable. Viton version is suitable for corrosive gases up to 100% Humidity and 1% H2S (Contact Dungs for more details).

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

PIPE SIZE	DN 65 TO DN 125 (2½" – 5")
MAX. OPERATING PRESSURE	7 PSI (500 mbar) FM, CSA, CE
ELECTRICAL RATING	110 – 120 VAC/50-60 Hz
(+10% / -15%)	230-240 VAC/50-60 Hz
START/HOLD POWER CONSUMPTION	24 VDC
WITH ALL COILS ENERGIZED	DMV-D(LE) 5065 ECO 6X4: 130/32VA
	DMV-D(LE) 5080 ECO 6X4: 190/40VA
	DMV-D(LE) 5100/5125 ECO 6X4: 250/50VA
ENCLOSURE RATING	NEMA 4 / IP65
ELECTRICAL CONNECTION	DIN-connector optional with ½" NPT conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	NBR SEAT: +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON SEAT (CSA): +5°F to +140°F (-15°C to +60°C)
	OPTIONAL VITON SEAT (EN161): +32°F to +140°F (0°C to +60°C)

Aluminum Body; Inlet, intermediate and outlet side taps (G 1/8 ISO 228); inlet gas strainer installed in the housing upstream V1 (23 mesh screen); DMV ECO, – V1 Fast Opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE ECO - V1 fast opening & closing (<1s), V2 slow opening 20s MAX @ 70F & fast closing (<1s); V2 on DMV-DLE ECO features a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. ECO /624 has POC mounted to V2, ECO /634 has POC mounted to V1 and V2 Conduit Adapter (240671);

Din connector (210319), and ISO mating flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators (VI) 266949 or one CPI 400 (CPI) 266968, and one VI meet this requirement. These also must be ordered separately for valve 1. Factory mounted and calibrated proof of closure switch: SPDT 5 A resistive, 2 FLA, 48 LRA @ 120 VAC; 1A @ 24 VDC; NEMA 4; +5°F to +140°F (-15°C to +60°C). Switch incorporates visual indication of valve (opened & closed).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
269397	DMV 5065/624 ECO 110 VAC 50-60 Hz	\$4,306.38	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 255-478-4 NO REPL PCB AVL	3 22.0
269387	DMV 5080/624 ECO 110 VAC 50-60 Hz	\$5,927.62	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 253-713-4 NO REPL PCB AVL	3 35.9
269394	DMV 5100/624 ECO 110 VAC 50-60 Hz	\$7,876.17	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 253-677-4 NO REPL PCB AVL	3 53.4
269390	DMV 5125/624 ECO 110 VAC 50-60 Hz	\$12,315.31	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 253-676-4 NO REPL PCB AVL	3 69.9
268490	DMV 5065/624 ECO 24 VDC	\$4,186.52	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262451 NO REPL PCB AVL	3 22.0
269405	DMV 5080/624 ECO 24 VDC	\$5,747.21	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-503-4 NO REPL PCB AVL	3 35.9
269411	DMV 5100/624 ECO 24 VDC	\$7,876.17	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-504-4 NO REPL PCB AVL	3 53.4
269417	DMV 5125/624 ECO 24 VDC	\$12,315.31	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-505-4 NO REPL PCB AVL	3 69.9

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
269398	DMV 5065/634 ECO 110 VAC 50-60 Hz	\$5,177.64	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 255-478-4 NO REPL PCB AVL	3	48.4
269388	DMV 5080/634 ECO 110 VAC 50-60 Hz	\$6,690.16	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 255-713-4 NO REPL PCB AVL	3	35.9
269395	DMV 5100/634 ECO 110 VAC 50-60 Hz	\$8,747.44	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 253-677-4 NO REPL PCB AVL	3	53.4
269392	DMV 5125/634 ECO 110 VAC 50-60 Hz	\$12,804.79	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 253-676-4 NO REPL PCB AVL	3	69.9
269419	DMV 5065/634 ECO 24 VDC	\$5,177.64	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 256-633-4 NO REPL PCB AVL	3	22.0
269406	DMV 5080/634 ECO 24 VDC	\$6,690.16	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-503-4 NO REPL PCB AVL	3	35.9
269412	DMV 5100/634 ECO 24 VDC	\$8,747.44	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-504-4 NO REPL PCB AVL	3	53.4
269418	DMV 5125/634 ECO 24 VDC	\$12,804.79	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 248-505-4 NO REPL PCB AVL	3	69.9
269400	DMV-DLE 5065/624 ECO 110 VAC 50-60 Hz	\$4,396.56	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 256-632-4 NO REPL PCB AVL REPL HYDR BRAKE 223158	3	22.0
268488	DMV-DLE 5080/624 ECO 110 VAC 50-60 Hz	\$5,673.69	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-826-4 NO REPL PCB AVL REPL HYDR BRAKE 223158	3	36.4
269408	DMV-DLE 5100/624 ECO 110 VAC 50-60 Hz	\$7,969.88	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-825-4 NO REPL PCB AVL REPL HYDR BRAKE 223157	3	54.0
269414	DMV-DLE 5125/624 ECO 110 VAC 50-60 Hz	\$12,404.23	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-824-4 NO REPL PCB AVL REPL HYDR BRAKE 223157	3	70.6
269401	DMV-DLE 5065/634 ECO 110 VAC 50-60 Hz	\$5,267.84	DN 65 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 256-632-4 NO REPL PCB AVL REPL HYDR BRAKE 223158	3	22.0
269403	DMV-DLE 5080/634 ECO 110 VAC 50-60 Hz	\$6,779.16	DN 80 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-826-4 NO REPL PCB AVL REPL HYDR BRAKE 223158	3	36.4
269409	DMV-DLE 5100/634 ECO 110 VAC 50-60 Hz	\$8,841.16	DN 100 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-825-4 NO REPL PCB AVL REPL HYDR BRAKE 223157	3	54.0
269415	DMV-DLE 5125/634 ECO 110 VAC 50-60 Hz	\$12,893.79	DN 125 to ISO 7005-1 PN16 NBR NEMA 4	REPL COIL 262-824-4 NO REPL PCB AVL REPL HYDR BRAKE 223157	3	70.6

DUAL MODULAR VALVES FLANGED – DMV-D(LE) 5XXX SERIES

Section 15

Description

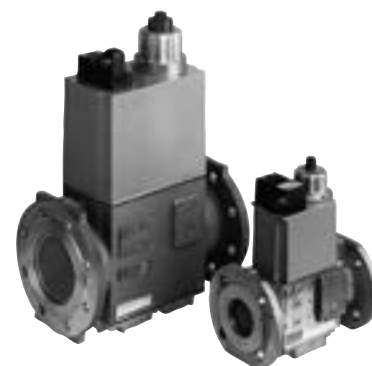
The DUNGS Flanged Dual Modular Valve (DMV) combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 1 (V1) of the DMV, DMV-D and DMV-DLE series is fast opening and fast closing. Valve 2 (V2) of the DMV and DMV-D is fast opening, while V2 of the DMV-DLE is slow-opening for smoother light-off. Max. flow adjustment on V1 provides variable main flow on the DMV-D and DMV-DLE models.

Application

The DMV/11 is recommended for industrial and commercial heating applications that require two safety shutoff valves in series. The DMV is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

PIPE SIZE	DN 40 to DN 125 (1½" – 5")
MAX. OPERATING PRESSURE	7 PSI (500 mbar) FM, CE (Class A) 5 PSI (360 mbar) CSA
ELECTRICAL RATING (+10% / -15%)	110-120 VAC/50-60 Hz 220-240 VAC/50-60 Hz 24VAC/50-60 Hz 24VDC
ENCLOSURE RATING	NEMA 12 / IP54
ELECTRICAL CONNECTION	DIN-connector with optional ½" npt conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV, DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on DMV-D and DMV-DLE feature a manually adjustable flow rate (<10-100%); 100% DUTY

CYCLE; Refer to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators (VI) 266949 or one CPI 400 (CPI) 266968, and one VI meet this requirement. These also must be ordered separately.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
226061	DMV-D 5040/11 110 VAC 50-60 Hz	\$2,757.95	DN 40 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225049 REPL PWB 266149	3 18.8
226064	DMV-D 5050/11 110 VAC 50-60 Hz	\$3,052.60	DN 50 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225049 REPL PWB 266149	3 19.4
226067	DMV-D 5065/11 110 VAC 50-60 Hz	\$3,109.30	DN 65 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225168 REPL PWB 266149	3 35.2
226070	DMV-D 5080/11 110 VAC 50-60 Hz	\$5,332.06	DN 80 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225217 REPL PWB 266149	3 54.1
226073	DMV-D 5100/11 110 VAC 50-60 Hz	\$7,131.02	DN 100 to ISO 7005-1 PN16 135 VA, NBR NEMA 12	REPL COIL 225222 REPL PWB 266150	3 68.2
226076	DMV-D 5125/11 110 VAC 50-60 Hz	\$10,948.79	DN 125 to ISO 7005-1 PN16 200 VA, NBR NEMA 12	REPL COIL 225226 REPL PWB 266150	3 111.3
226063	DMV-D 5040/11 24 VDC	\$2,757.95	DN 40 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225051 REPL PWB 266151	3 17.2
226066	DMV-D 5050/11 24 VDC	\$3,052.60	DN 50 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225051 REPL PWB 266151	3 19.4
226069	DMV-D 5065/11 24 VDC	\$3,109.30	DN 65 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225170 REPL PWB 266151	3 35.2
226072	DMV-D 5080/11 24 VDC	\$5,332.06	DN 80 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225219 REPL PWB 266151	3 54.1

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
226075	DMV-D 5100/11 24 VDC	\$7,131.02	DN 100 to ISO 7005-1 PN16 135 VA, NBR NEMA 12	REPL COIL 225224 REPL PWB 266151	3 70.0
226078	DMV-D 5125/11 24 VDC	\$10,948.79	DN 125 to ISO 7005-1 PN16 200 VA, NBR NEMA 12	REPL COIL 225228 REPL PWB 266151	3 113.3
224380	DMV-D 5040/11 220-240 VAC 50-60 Hz	\$2,757.95	DN 40 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225048 REPL PWB 266147	3 17.2
224381	DMV-D 5050/11 220- 240 VAC 50-60 Hz	\$3,052.60	DN 50 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225048 REPL PWB 266147	3 19.8
224382	DMV-D 5065/11 220-240 VAC 50-60 Hz	\$3,109.30	DN 65 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225167 REPL PWB 266147	3 34.9
224383	DMV-D 5080/11 220-240 VAC 50-60 Hz	\$5,332.06	DN 80 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225171 REPL PWB 266147	3 54.3
224384	DMV-D 5100/11 220-240 VAC 50-60 Hz	\$7,131.02	DN 100 to ISO 7005-1 PN16 135 VA, NBR NEMA 12	REPL COIL 225220 REPL PWB 266148 REPL HYDR BRAKE 223158	3 67.3
224385	DMV-D 5125/11 220-240 VAC 50-60 Hz	\$10,948.79	DN 125 to ISO 7005-1 PN16 200 VA, NBR NEMA 12	REPL COIL 225225 REPL PWB 266148	3 114.4
226118	DMV-DLE 5050/11 110 VAC 50-60 Hz	\$3,155.84	DN 50 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225049 REPL PWB 266149 REPL HYDR BRAKE 224457	3 19.6
226102	DMV-DLE 5065/11 110 VAC 50-60 Hz	\$3,210.84	DN 65 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225168 REPL PWB 266149 REPL HYDR BRAKE 223158	3 35.2
226104	DMV-DLE 5080/11 110 VAC 50-60 Hz	\$5,433.65	DN 80 to ISO 7005-1 PN16 135 VA, NBR NEMA 12	REPL COIL 225217 REPL PWB 266149	3 55.0
226112	DMV-DLE 5100/11 110 VAC 50-60 Hz	\$7,232.59	DN 100 to ISO 7005-1 PN16 135 VA, NBR NEMA 12	REPL COIL 225222 REPL PWB 266150 REPL HYDR BRAKE 223157	3 68.6
226108	DMV-DLE 5125/11 110 VAC 50-60 Hz	\$11,050.36	DN 125 to ISO 7005-1 PN16 200 VA, NBR NEMA 12	REPL COIL 225226 REPL PWB 266150 REPL HYDR BRAKE 223157	3 116.6
226120	DMV-DLE 5050/11 24 VDC	\$3,155.84	DN 50 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225048 REPL PWB 266147 REPL HYDR BRAKE 224457	3 19.8
226103	DMV-DLE 5065/11 24 VDC	\$3,210.84	DN 65 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225170 REPL PWB 266151 REPL HYDR BRAKE 223158	3 35.2
226106	DMV-DLE 5080/11 24 VDC	\$5,433.65	DN 80 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225219 REPL PWB 266151 REPL HYDR BRAKE 223158	3 54.6
226114	DMV-DLE 5100/11 24 VDC	\$7,232.59	DN 100 to ISO 7005-1 PN16 135 VA, NBR NEMA 12	REPL COIL 225224 REPL PWB 266151 REPL HYDR BRAKE 223157	3 70.4
226110	DMV-DLE 5125/11 24 VDC	\$11,050.36	DN 125 to ISO 7005-1 PN16 200 VA, NBR NEMA 12	REPL COIL 225228 REPL PWB 266151 REPL HYDR BRAKE 223157	3 115.3
224924	DMV-DLE 5050/11 220-240 VAC 50-60 Hz	\$3,155.84	DN 50 to ISO 7005-1 PN40 90 VA, NBR NEMA 12	REPL COIL 225048 REPL PWB 266147 REPL HYDR BRAKE 224457	3 19.8
224925	DMV-DLE 5065/11 220-240 VAC 50-60 Hz	\$3,210.84	DN 65 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225167 REPL PWB 266147 REPL HYDR BRAKE 223158	3 35.6
224926	DMV-DLE 5080/11 220-240 VAC 50-60 Hz	\$5,433.65	DN 80 to ISO 7005-1 PN16 110 VA, NBR NEMA 12	REPL COIL 225171 REPL PWB 266147 REPL HYDR BRAKE 223158	3 55.0

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
226111	DMV-DLE 5100/11 220-240 VAC 50-60 Hz	\$7,232.59	DN 100 to ISO 7005-1 PN16 135 VA, NBR NEMA 12	REPL COIL 225220 REPL PWB 266147 REPL HYDR BRAKE 223157	3	68.6
226107	DMV-DLE 5125/11 220-240 VAC 50-60 Hz	\$11,050.36	DN 125 to ISO 7005-1 PN16 200 VA, NBR NEMA 12	REPL COIL 225225 REPL PWB 266148 REPL HYDR BRAKE 223157	3	114.8

DUAL MODULAR VALVES FLANGED – DMV-D(LE) 500XX SERIES

Section 16

Description

The DUNGS Flanged Dual Modular Valve (DMV) 500XX Series, combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 1 (V1) and Valve 2 (V2) are fast opening.

Application

The DMV 500XX Series is recommended for industrial and commercial heating applications that require two safety shutoff valves in series. The DMV is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

PIPE SIZE	DN 50 (2")
MAX. OPERATING PRESSURE	70 PSIG (5 Barg) CE (Class A) EN161 60 PSIG (4Barg) CSA 6.5 C/I
ELECTRICAL RATING (+10% / -15%)	220-240 VAC/50-60 Hz 24 VDC
ENCLOSURE RATING	NEMA 12 / IP54
ELECTRICAL CONNECTION	SCREW TERMINALS VIA PG11
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Aluminum body; Inlet and outlet taps (G1/4 ISO 228); Intermediate tap G1/4 ISO 228; Inlet gas strainer installed in the housing upstream valves. Fast opening & closing (<1 s). 100% duty cycle; Refer to Flow Curves for Body Selection. Note: Coils do NOT TURN.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
254849	DMV 50050 230 VAC 50-60 Hz	\$4,592.63	DN 50 to ISO 7005-1 PN16 STARTING POWER (W) 2X80 HOLDING POWER (W) 2X15 NBR NEMA 12	COILS: V1=257878 & V2=257879 PWB NOT REPLACEABLE	3 18.8
251762	DMV 50050 24 VDC	\$4,816.67	DN 50 to ISO 7005-1 PN16 STARTING POWER (W) 2X80 HOLDING POWER (W) 2X15 NBR NEMA 12	COILS: V1=257876 & V2=257877 PWB NOT REPLACEABLE	3 18.9

DUAL MODULAR VAVLES – DMV-D(LE)

Section 18

Description

The DUNGS Dual Modular Valve (DMV-D(LE)/11) combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 1 (V1) of the DMV-D and DMV-DLE series is fast opening and fast closing. Valve 2 (V2) of the DMV-D is fast opening, while V2 of the DMV-DLE is slow-opening for smoother light-off. Max. flow adjustment on V1 provides variable main flow on both models.

Application

The DUNGS DMV/11 is recommended for industrial and commercial heating applications that require two safety shutoff valves in series and CE approval. The DMV is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

BODY SIZES	DMV 507/11 DMV 512/11 DMV 520/11
PIPE SIZE/THREAD	DMV 507/11 – ½" – 1" NPT or Rp DMV 512/11 – 1" – 2" NPT or Rp DMV 520/11 – 1" – 2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) CE (Class A)
ELECTRICAL RATING (+10% / -15%)	110 VAC/50-60 Hz (+10% / -15%) 220 VAC/50-60 Hz 24 VDC
ENCLOSURE RATING	IP 54 / NEMA 12
ELECTRICAL CONNECTION	DIN-connector with optional ½" npt conduit adapter
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-D - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-DLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer

to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately. European code requirements for position indication vary. The DUNGS K01 (266893) switch meets EN1531 and EN 161 code requirements for closed position signal contact.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
222872	DMV-D 503/11 110 VAC 50-60 Hz	\$1,192.65	3/8" RP 35 VA, NBR IP 54	REPL COIL 224997 REPL PWB: 266142	1	3.6
222873	DMV-D 507/11 110 VAC 50-60 Hz	\$1,303.94	1/2", 3/4", 1" RP OR NPT 45 VA, NBR IP 54	REPL COIL 225001 REPL PWB: 266145	1	4.8
222826	DMV-D 512/11 110 VAC 50-60 Hz	\$1,587.38	1", 1 1/4", 1 1/2", 2" RP OR NPT 65 VA, NBR IP 54	REPL COIL 225005 REPL COIL 225005	1	10.6
222823	DMV-D 520/11 110 VAC 50-60 Hz	\$1,823.64	1", 1 1/4", 1 1/2", 2" RP OR NPT 90 VA, NBR IP 54	REPL COIL 225049 REPL PWB: 266149	1	13.4
222326	DMV-D 503/11 230 VAC 50-60 Hz	\$1,192.65	3/8" RP 35 VA, NBR IP 54	REPL COIL 224980 REPL PWB: 266141	1	3.5
222331	DMV-D 507/11 230 VAC 50-60 Hz	\$1,303.94	1/2", 3/4", 1" RP OR NPT 45 VA, NBR IP 54	REPL COIL 225000 REPL PWB: 266144	1	4.7
222336	DMV-D 512/11 230 VAC 50-60 Hz	\$1,587.38	1", 1 1/4", 1 1/2", 2" RP OR NPT 65 VA, NBR IP 54	REPL COIL 225004 REPL PWB: 266147	1	10.8
221924	DMV-D 520/11 230 VAC 50-60 Hz	\$1,823.64	1", 1 1/4", 1 1/2", 2" RP OR NPT 90 VA, NBR IP 54	REPL COIL 225048 REPL PWB: 266147	1	13.5
222878	DMV-DLE 507/11 110 VAC 50-60 Hz	\$1,398.39	1/2", 3/4", 1" RP OR NPT 45 VA, NBR IP 54	REPL COIL 225001 REPL PWB: 266145	1	5.3

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
222882	DMV-DLE 512/11 110 VAC 50-60 Hz	\$1,681.85	1", 1 1/4", 1 1/2", 2" RP OR NPT 65 VA, NBR IP 54	REPL COIL 225005 REPL PWB: 266149	1	11.1
222889	DMV-DLE 520/11 110 VAC 50-60 Hz	\$1,917.99	1", 1 1/4", 1 1/2", 2" RP OR NPT 90 VA, NBR IP 54	REPL COIL 225049 REPL PWB: 266149	1	13.8
222327	DMV-DLE 503/11 230 VAC 50-60 Hz	\$1,279.88	3/8" RP 35 VA, NBR IP 54	REPL COIL 224980 REPL PWB: 266141	1	3.7
222332	DMV-DLE 507/11 230 VAC 50-60 Hz	\$1,398.39	1/2", 3/4", 1" RP OR NPT 45 VA, NBR IP 54	REPL COIL 225000 REPL PWB: 266144	1	5.2
222337	DMV-DLE 512/11 230 VAC 50-60 Hz	\$1,681.85	1", 1 1/4", 1 1/2", 2" RP OR NPT 65 VA, NBR IP 54	REPL COIL 225004 REPL PWB: 266147	1	10.9
222599	DMV-DLE 520/11 230 VAC 50-60 Hz	\$1,917.99	1", 1 1/4", 1 1/2", 2" RP OR NPT 90 VA, NBR IP 54	REPL COIL 225048 REPL PWB: 266147	1	13.28
222875	DMV-D 507/11 24VDC	\$1,391.22	1/2", 3/4", 1" RP OR NPT 45VA, NBR IP 54	REPL COIL 225003 REPL PWB: 266146	1	4.9
222828	DMV-D 512/11 24VDC	\$1,674.70	1", 1 1/4", 1 1/2", 2" RP OR NPT 65VA, NBR IP 54	REPL COIL 225028 REPL PWB: 266151	1	11.0
222825	DMV-D 520/11 24VDC	\$1,910.92	1", 1 1/4", 1 1/2", 2" RP OR NPT 90VA, NBR IP 54	REPL COIL 225051 REPL PWB: 266151	1	12.7
222876	DMV-DLE 507/11 24VDC	\$1,485.70	1/2", 3/4", 1" RP OR NPT 45VA, NBR IP 54	REPL COIL 225003 REPL PWB: 266146	1	4.7
222884	DMV-DLE 512/11 24VDC	\$1,769.11	1", 1 1/4", 1 1/2", 2" RP OR NPT 65VA, NBR IP 54	REPL COIL 225028 REPL PWB: 266151	1	11.0
222890	DMV-DLE 520/11 24VDC	\$2,005.27	1", 1 1/4", 1 1/2", 2" RP OR NPT 90VA, NBR IP 54	REPL COIL 225051 REPL PWB: 266151	1	13.8

Description

The DUNGS Two-Stage Dual Modular Valve (DMV-ZRD(LE)/602) combines two normally closed, automatic shutoff valves in one compact housing, which can be wired independently or in parallel. Valve 2 (V2) incorporates two stages that can be field set at two different firing rates to modulate from high to low during gas burning equipment operation. Valve 1(V1) of the DMV-ZRD and DMV-ZRDLE series is fast opening and fast closing. Valve 2 (V2) is a two-stage valve. V2 of the DMV-ZRD is fast opening, while V2 of the (DMV-ZRD(LE)/602) is slow opening. Max. flow adjustment on V2 provides variable main flow on both models.

Application

The DUNGS DMV-ZRD is recommended for industrial and commercial heating applications where two safety shutoff valves in series that modulate between two firing rates are required. The DMV-ZRD/6 Dual Multi-Valve two stage is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.

Optional Approvals

When ordered and installed with Burkert connector plug (part number 253731), the UL Recognized DMV valve may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795.



[DUNGS Product Reference Material](#)

Specifications

BODY SIZES	DMV-ZRD(LE) 701/602 DMV-ZRD(LE) 702/602 DMV-ZRD(LE) 703/602
PIPE SIZE/THREAD	DMV-ZRD(LE) 701/602: ½" – 1" NPT or Rp DMV-ZRD(LE) 702/602: 1" – 2" NPT or Rp DMV-ZRD(LE) 703/602: 1" – 2" NPT or Rp
MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
ELECTRICAL RATING (+10% / -15%)	110 – 120 VAC/50-60 Hz 220 – 240 VAC/50-60 Hz
ENCLOSURE RATING	NEMA 12 / IP 54
ELECTRICAL CONNECTION	STAGE 1 (V1 & V2): DIN-connector ½" npt conduit adapter STAGE 2 (V2): DIN-CONNECTOR WITH ½" NPT CONDUIT CONNECTION
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +150°F (-30°C to +65°C)

Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); Valve 1(V1) of the DMV-ZRD and DMV-ZRDLE series is fast opening and fast closing. Valve 2 (V2) is a two-stage valve. V2 of the DMV-ZRD is fast opening, while V2 of the DMV-ZRDLE is slow-opening for smoother light-off. Max. flow adjustment on V2 provides variable main flow on both models; Refer to Flow Curves for Body Selection.

Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately. Code requirements vary. FM requires visual indication on 1" and larger safety valves. Two visual indicators (VI) 266949 or one CPI 400 (CPI) 266968 and one VI meet this requirement. These also must be ordered separately.

DMV-ZRD(LE) valves with Vent Line Adapter are available upon request. Contact Customer Service for available options and pricing.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
231844	DMV-ZRD 701/602 120 VAC 50-60 Hz	\$1,571.92	1/2", 3/4", 1" NPT OR RP 70 VA, NBR NEMA 12	5	6.8
232025	DMV-ZRD 702/602 120 VAC 50-60 Hz	\$1,851.09	1", 1 1/4", 1 1/2", 2" NPT OR RP 120 VA, NBR NEMA 12	5	14.1
232079	DMV-ZRD 703/602 120 VAC 50-60 Hz	\$2,087.26	1", 1 1/4", 1 1/2", 2" NPT OR RP 135 VA, NBR NEMA 12	5	19.2
232173	DMV-ZRDLE 701/602 120 VAC 50-60 Hz	\$1,722.18	1/2", 3/4", 1" NPT OR RP 70 VA, NBR NEMA 12	5	7.0
232214	DMV-ZRDLE 702/602 120 VAC 50-60 Hz	\$2,001.38	1", 1 1/4", 1 1/2", 2" NPT OR RP 120 VA, NBR NEMA 12	5	14.6
232232	DMV-ZRDLE 703/602 120 VAC 50-60 Hz	\$2,237.55	1", 1 1/4", 1 1/2", 2" NPT OR RP 135 VA, NBR NEMA 12	5	19.3

DUAL MODULAR VALVES TWO-STAGE W/PROOF OF CLOSURE – DMV-ZRD(LE)

Section 21

Description

The DUNGS Dual Modular Valve (DMV-ZRD(LE)/612) with Proof of Closure combines all the features of the DUNGS Dual Modular Valve DMV-ZRD(LE)/6 plus, valve 1 incorporates overtravel and a proof of closure switch which is factory mounted and set.

Application

The DUNGS DMV-ZRD(LE)/612 is recommended for industrial and commercial heating applications where two safety shutoff valves in series that modulate between two firing rates and applications that require overtravel and a proof of closure switch. The DMV-ZRD(LE)/612 is suitable for natural gas, propane, butane, air, and other inert gases. Hydrogen suitable.

Optional Approvals

When ordered and installed with Burkert connector plug (253731), the UL Recognized DMV valve may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795.



[DUNGS Product Reference Material](#)

Specifications

	BODY SIZES	DMV-ZRD(LE) 702/612 DMV-ZRD(LE) 703/612
	PIPE SIZE/THREAD	1" – 2" NPT or Rp
	MAX. OPERATING PRESSURE	7 PSI (500 mbar) UL, FM 5 PSI (360 mbar) CSA
	ELECTRICAL RATING	110 – 120 VAC/50-60 Hz (+10% / -15%)
	ENCLOSURE RATING	NEMA 12 / IP54
	ELECTRICAL CONNECTION	STAGE 1 (V1 & V2): DIN-connector with optional ½" npt conduit adapter STAGE 2 (V2): Screw terminals with ½" npt conduit connection
OPERATING TIME		100% duty cycle
	AMBIENT TEMP RATING	-20°F to +150°F (-30°C to +65°C)

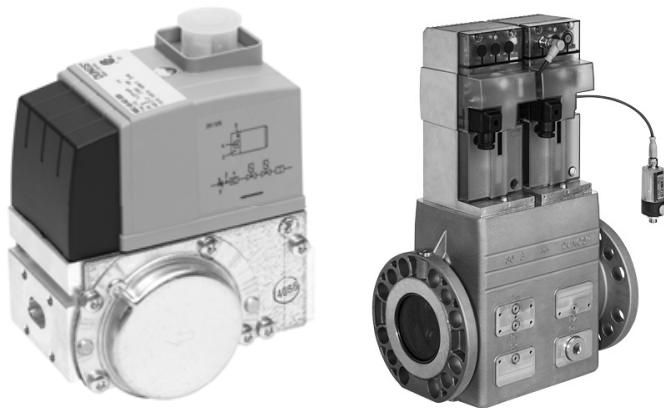
Aluminum body; Inlet, intermediate and outlet side taps (G1/8 ISO 228); Inlet gas strainer installed in the housing upstream valves (23 mesh screen); DMV-ZRD - V1 fast opening & closing (<1 s), V2 fast opening & closing (<1 s); DMV-ZRDLE - V1 fast opening & closing (<1s); V2 slow opening 20s MAX @ 70F & fast closing (<1 s); V2 on both models feature a manually adjustable flow rate (<10-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately.

Code requirements vary. FM requires visual indication on 1" and larger safety valves. The visual indicator (VI) 266949 meets this requirement. The visual indicator must be ordered separately for valve 2. Factory mounted and calibrated proof of closure switch: SPDT 10 A resistive, 8 FLA, 48 LRA @ 120 VAC; NEMA 4; -40 °F to +150 °F (-40 °C to +65 °C); Switch incorporates visual indication of valve (opened & closed). DMV-ZRD(LE) valves with Vent Line Adapter are available upon request. Contact Customer Service for available options and pricing.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267094	DMV-ZRD 701/612 120 VAC 50-60 Hz	\$1,961.17	1/2", 3/4", 1" NPT OR RP 70 VA, NBR NEMA 12	REPL COIL 251680 & 232401 REPL PWB (STAGE 1): 238803	5	6.6
267096	DMV-ZRD 702/612 120 VAC 50-60 Hz	\$2,240.36	1", 1 1/4", 1 1/2", 2" NPT OR RP 120 VA, NBR NEMA 12	REPL COIL 251681 & 232402 REPL PWB (STAGE 1): 238806	5	14.3
267099	DMV-ZRD 703/612 120 VAC 50-60 Hz	\$2,476.52	1", 1 1/4", 1 1/2", 2" NPT OR RP 135 VA, NBR NEMA 12	REPL COIL 251682 & 232403 REPL PWB (STAGE 1): 238806	5	18.1
267095	DMV-ZRDLE 701/61 120 VAC 50-60 Hz	\$2,111.45	1/2", 3/4", 1" NPT OR RP 70 VA, NBR NEMA 12	REPL COIL 251680 & 232401 REPL PWB (STAGE 1): 238803 REPL HYDR BRAKE 240458	5	6.8
267098	DMV-ZRDLE 702/612 120 VAC 50-60 Hz	\$2,390.64	1", 1 1/4", 1 1/2", 2" NPT OR RP 120 VA, NBR NEMA 12	REPL COIL 251681 & 232402 REPL PWB (STAGE 1): 238806 REPL HYDR BRAKE 240458	5	14.6
267100	DMV-ZRDLE 703/612 120 VAC 50-60 Hz	\$2,626.81	1", 1 1/4", 1 1/2", 2" NPT OR RP 135 VA, NBR NEMA 12	REPL COIL 251682 & 232403 REPL PWB (STAGE 1): 238806 REPL HYDR BRAKE 240458	5	18.3

Gas MultiBloc Valves

Product	Model	Section
Gas MultiBloc – MBC-DLE		23
Gas MultiBloc MBE	US	24



Description

The MBC 65 series Gas MultiBloc valve is a multifunctional safety control that incorporates two fast-closing safety shutoff valves, pressure regulator, and filter all integrated into a compact housing. The MBC 65 also includes an adjustable low fire bypass of the pressure regulator function as well as a maximum flow adjustment and an adjustable slow-opening feature. Note: The adjustable low fire bypass is closed when shipped from the factory. The MBC 65 is not available with visual indication or proof-of-closure, for NFPA 86 applications the valve is limited to 150,000 Btu/hour or less. For other applications not requiring VI or POC the MBC 65 may be used at higher capacities.

Application

The MBC 65 modular system is suitable for use with fuel gases of gas families 1, 2, and 3 as well as other neutral gaseous media. The MBC 65 series valves are intended for the following applications.

- Pilot valves where the pilot gas flow is 150,000 btu/hour or less.
- Main fuel valves for industrial bakery ovens where the individual burner capacity is 150,000 btu/hour or less.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

SOLENOID VALVE V1:	Per DIN 161 Class A Group 2, Fast-Closing/Fast-Opening
SOLENOID VALVE V2:	Per DIN 161 Class A Group 2, Fast-Closing/Fast-Opening
PRESSURE RATING	CSA Certified to 0.5 PSIG to ANSI Z21.78/CSA 6.20 CSA Certified to 5 PSIG to ANSI Z2.21/CSA 6.5 & ANSI Z21.18/CSA 6.3 Not Recommended to exceed 3 PSIG Inlet pressure for optimum performance of regulator.
ELECTRICAL RATING	110 VAC (+10% / -15%)
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to 60°C)

Required accessories include the following

(sold separately, contact Customer Service for pricing):

- Inlet/outlet flanges ½" NPT (244439) or 1/2 BSP (259242)
- DIN Connector (210319)
- Conduit Adaptor (M20-1/2NPT) (240671)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
294390*	MBC-65-DLE-S20 110V AC	\$675.85	5 PSIG Outlet Pressure 3 mbar to 15 mbar	8	3.3
294391*	MBC-65-DLE-S40 110V AC	\$675.85	5 PSIG Outlet Pressure 4 mbar to 37 mbar	8	3.3

Description

The DUNGS MBE consists of one valve body (VB series) and two valve drives (VD series) and combines two normally closed, safety shutoff valves in one compact housing. The VB-L series comes standard with a factory installed vent line connection between the two valves whereas the standard VB series does not. The Valve Drives (VD-X) come standard with a mechanical valve position indicator and are available as an on/off shutoff valve (VD-V)

or as an on/off shutoff valve with pressure regulator (VD-R). VD-X-POC incorporates overtravel and a proof of closure switch. The VD-R requires an additional Pressure Sensor (PS) based on the outlet pressure desired. The combination VD-R with PS is available as a zero governor/ratio regulator or as a positive outlet pressure regulator with two options up to 200" W.C. (~7.2 PSI). Each Valve Drive is slow-opening (~ 7 s) and fast-closing (< 1 s).

Application

The MBE is recommended for industrial and commercial heating applications that require two safety shutoff valves in series. The MBE is suitable for natural gas, vaporized propane or butane, air, 100% hydrogen, biogas up to max. 1% vol. H₂S, and other inert gases

Optional Approvals
N/A



DUNGS Product Reference Material

Specifications

MAX INLET PRESSURE	VB-050: 600 mbar VB-065 to VB-150: 700 mbar VB-2L: 8 PSI (240" w.c.) VB-2½"L to VB-6L: 10 PSI (280" w.c.)
OPERATING TEMP RANGE	-4°F to +140°F (-20°C to +60°C)

The Burkert connector plug type 2509 (253731) is required for the power and for the proof of closure wiring, if applicable, to comply with UL429 & ANSI Z21.21/ CSA 6.5 C/I. The MBE may replace a UL Listed valve. Such a substitution is typically required for equipment UL Listed to UL 295/UL 795. For Non-UL Listed/CSA applications: Din Connector (210319) is required for Actuators without Proof of Closure. Din Connector (210318) is required for Actuators with Proof of Closure.

Test Nipple and sealing ring (267014) are available for purchase.

The MBE, except MBE 100, meets the following approvals: UL Listed to UL429 & ANSI Z21.21/ CSA 6.5 & ANSI Z21.18/CSA 6.3. MBE 100 is UL Recognized to the same standards as above. All models are FM Approved to FM 7400. For Assembly pricing, contact Customer Service. Additional Assembly pricing available.

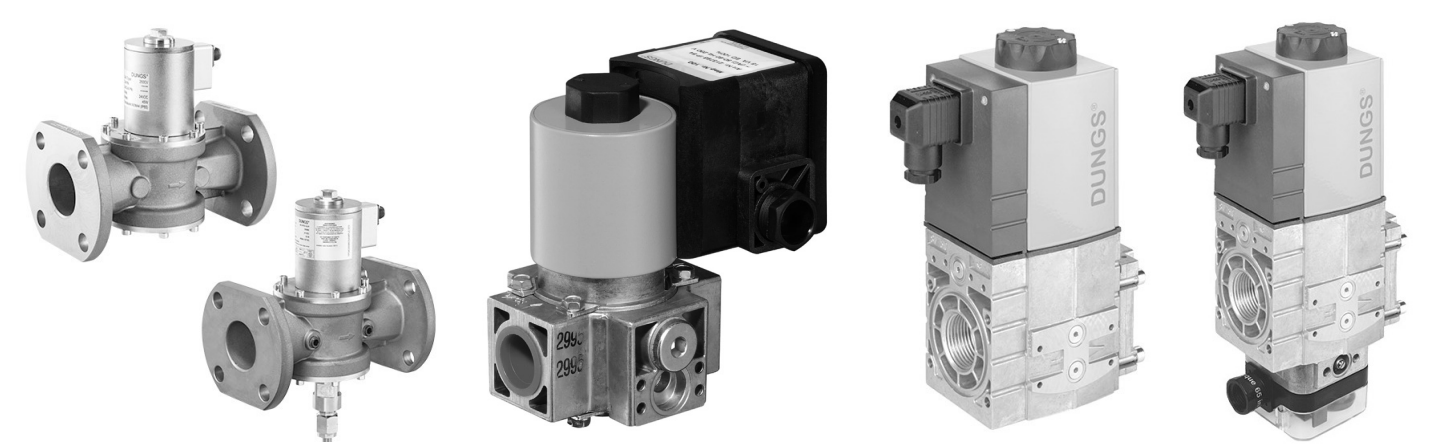
Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)	
274847	VB-2L VALVE BODY - 2"	\$740.93	REQUIRES (2) NPT FLANGES. BOLTS FOR 1-1/2" FLANGES (222003) & 2" FLANGES (221997) ARE INCLUDED W/VALVE BODY (BOLT REPL PN 289415).	1" FLANGES (222369) & 1 1/4" FLANGES (222370) REQUIRES 4 BOLTS (298647) PER FLANGE	7	9.0
274660	VB-2.5L VALVE BODY - 2.5"	\$2,368.15	CONNECTS TO ANSI OR ISO FLANGES	SEALS: 267465 BOLTS: M16X65 (135930) 4 SETS REQUIRED PER FLANGE	7	19.6
274662	VB-3L VALVE BODY - 3"	\$3,430.16	CONNECTS TO ANSI OR ISO FLANGES	SEALS: 267466 BOLTS: M16X65 (135930) 8 SETS REQUIRED PER FLANGE	7	21.6
274664	VB-4L VALVE BODY - 4"	\$5,863.81	CONNECTS TO ANSI FLANGES	SEALS: 267467 BOLTS: M16X65 (135930) 8 SETS REQUIRED PER FLANGE	7	27.2
274666	VB-5L VALVE BODY - 5"	\$8,549.16	CONNECTS TO ANSI FLANGES	SEALS: 267468, BOLTS: M20X90 (135960) 8 SETS REQUIRED PER FLANGE	7	33.3
274668	VB-6L VALVE BODY - 6"	\$10,043.15	CONNECTS TO ANSI AND ISO FLANGES	BOLTS: M20X90 (135960) 8 SETS REQUIRED PER FLANGE	7	45.9
274846	VB-050 VALVE BODY - DN 50	\$815.02	REQUIRES (2) RP FLANGES. BOLTS FOR 1 1/2" FLANGES (221884) & 2" FLANGES (221926) ARE INCLUDED W/VALVE BODY (BOLT REPL PN 289415).	1" FLANGES (222343) & 1 1/4" FLANGES (222344) REQUIRES 4 BOLTS (298647) PER FLANGE	7	8.7

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
274659	VB-065 VALVE BODY - DN 65	\$2,604.95	CONNECTS TO ANSI OR ISO FLANGES	SEALS: 267465 BOLTS: M16X65 (135930) 4 SET REQUIRED PER FLANGE	7	19.0
274661	VB-080 VALVE BODY - DN 80	\$3,773.18	CONNECTS TO ANSI OR ISO FLANGES	SEALS: 267466 BOLTS: M16X65 (135930) 8 SETS REQUIRED PER FLANGE	7	21.2
274663	VB-100 VALVE BODY - DN 100	\$6,450.20	CONNECTS TO ISO FLANGES	SEALS: 267467 BOLTS: M16X65 (135930) 8 SETS REQUIRED PER FLANGE	7	26.7
274665	VB-125 VALVE BODY - DN 125	\$9,404.09	CONNECTS TO ISO FLANGES	SEALS: 267468, BOLTS: M20X90 (135960) 8 SETS REQUIRED PER FLANGE	7	32.5
274667	VB-150 VALVE BODY - DN 150	\$11,047.46	CONNECTS TO ANSI AND ISO FLANGES	BOLTS: M20X90 (135960) 8 SETS REQUIRED	7	44.1
275358	VD-V-AC-POC	\$687.96	ON/OFF ACTUATOR W/PROOF OF CLOSURE RATED FOR 100-240VAC 50/60 HZ		7	5.6
275361	VD-R-AC-POC	\$761.50	ON/OFF ACTUATOR W/PROOF OF CLOSURE RATED FOR 100-240VAC 50/60 HZ	OUTLET PRESSURE REGULATION (REQUIRES PRESSURE SENSOR)	7	5.5
275360	VD-V-DC-POC	\$1,034.42	ON/OFF ACTUATOR W/PROOF OF CLOSURE RATED FOR 24 VDC	W/PROOF OF CLOSURE	7	5.6
275363	VD-R-DC-POC	\$1,370.94	ON/OFF ACTUATOR W/PROOF OF CLOSURE RATED FOR 24 VDC	OUTLET PRESSURE REGULATION (REQUIRES PRESSURE SENSOR)	7	5.6
272262	VD-V-AC	\$567.95	ON/OFF ACTUATOR RATED FOR 100-240 VAC 50/60HZ		7	5.4
274654	VD-R-AC	\$641.49	ON/OFF ACTUATOR RATED FOR 100-240 VAC 50/60HZ	OUTLET PRESSURE REGULATION (REQUIRES PRESSURE SENSOR)	7	5.5
275359	VD-V-DC	\$914.41	ON/OFF ACTUATOR RATED FOR 24VDC		7	5.4
275362	VD-R-DC	\$1,250.93	ON/OFF ACTUATOR RATED FOR 24VDC	OUTLET PRESSURE REGULATION (REQUIRES PRESSURE SENSOR)	7	5.5
275265	PS-0 PRESSURE SENSOR	\$382.10	0 +/- 2" W.C., 0 +/- 5 MBAR, 0 +/- 5 KPA	FOR USE W/VD-R SERIES ONLY	7	0.2
275263	PS-10/40 PRESSURE SENSOR	\$382.10	1.5-40" W.C., 4-100 MBAR, 0.4-10 KPA	FOR USE W/VD-R SERIES ONLY	7	0.2
275264	PS-50/200 PRESSURE SENSOR	\$382.10	8 - 200" W.C., 20-500 MBAR, 2 - 50 KPA	FOR USE W/VD-R SERIES ONLY	7	0.2
276911*	CABLE 1.5m	\$73.58	CABLE FOR CONNECTING VD-R SERIES W/ PRESSURE SENSOR		19	0.3
296997*	DIRECT MOUNTING SET	\$173.07	DIRECT MOUNTING SET PS NPT 2"		19	1.2
296996*	DIRECT MOUNTING SET	\$173.07	DIRECT MOUNTING SET PS RP 2"		19	1.2

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
297001*	Y-ADAPTER	\$85.28	DUAL ELECTRICAL ADAPTER/CABLE (MBE)	TYPE A 3-POL+PE	19	0.2
289169*	ADAPTER	\$27.71	ADPT 1/4BSPP F X NPTM	SS316	19	0.3

Single Automatic Shut-Off Valves

Product	Model	Section
Single Automatic Shut-off Valves - MV-D(LE)	US	30
Single Automatic Shut-off Valves - MV-D(LE)	EU	31
Single Automatic Shut-off Valves - NEMA Type 4 with Proof of Closure - SV-(DLE)	US	32
Single Automatic Shut-off Valves - NEMA Type 4 - SV-(DLE)	US	33
High Pressure Valves-HPSV	US	35



SINGLE AUTOMATIC SHUT-OFF VALVES – MV-D(LE)

Section 30

Description

The DUNGS MVD/6 and MVDLE/6 electrically operated, normally closed, automatic shutoff valves for gas burning equipment.

Application

The MVD/6 and MVDLE/6 are recommended for industrial and commercial heating applications that require one or two automatic shutoff valves in series. The MVD and MVDLE valves are suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

PIPE SIZE/THREAD (NPT)	1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"
MAX. OPERATING PRESSURE	MVD: 7 PSI (500 mbar) [5 PSI @ CSA] MVDLE: 3 PSI (200 mbar) [2 PSI @ CSA]
ELECTRICAL RATING	110-120 VAC/60 Hz (+10% / -15%) 24 VAC/60 Hz (Some Models) 24 VDC
ENCLOSURE RATING	NEMA 12 / IP54
ELECTRICAL CONNECTION	Screw terminals with 1/2" NPT conduit connection
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-20°F to +120°F (-30°C to +50°C)

Aluminum body; Inlet and outlet side taps (1/4" NPT); Inlet gas strainer installed in the housing upstream valve (23 mesh screen); MVD – fast opening & closing (<1 s), MVDLE - slow opening 20s MAX @ 70F & fast closing (<1 s); both models feature a manually adjustable flow rate (<10

-100%); 100% duty cycle; Refer to Flow Curves for Body Selection. Code requirements vary. FM requires visual indication on 1" and larger safety valves. The visual indicator (VI) 266949 and CPI 400 (266968) meet this requirement. These must be ordered separately.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
217641	MVD 505/602 120 VAC 60 Hz	\$543.31	1/2" NPT 15 VA, NBR NEMA 12	REPL COIL MAG 100: 230983	13 2.5
217606	MVD 507/602 120 VAC 60 Hz	\$590.54	3/4" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 230986	13 5.7
217436	MVD 510/602 120 VAC 60 Hz	\$661.45	1" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 230986	13 6.1
217438	MVD 512/602 120 VAC 60 Hz	\$745.61	1 1/4" NPT 60 VA, NBR NEMA 12	REPL COIL MAG 300: 230989	13 13.3
217439	MVD 515/602 120 VAC 60 Hz	\$767.95	1 1/2" NPT 60 VA, NBR NEMA 12	REPL COIL MAG 300: 230989	13 13.3
217440	MVD 520/602 120 VAC 60 Hz	\$1,165.82	2" NPT 60 VA, NBR NEMA 12	REPL COIL MAG 400: 230991	13 19.8
217441	MVD 525/602 120 VAC 60 Hz	\$2,017.14	2 1/2" NPT 80 VA, NBR NEMA 12	REPL COIL MAG 500: 230992	13 33.7
217442	MVD 530/602 120 VAC 60 Hz	\$2,857.28	3" NPT 90 VA, NBR NEMA 12	REPL COIL MAG 550: 230993	13 56.9
217640	MVD 505/602 24 VAC 60 Hz	\$543.31	1/2" NPT 15 VA, NBR NEMA 12	REPL COIL MAG 100: 240310	13 2.6
217435	MVD 507/602 24 VAC 60 Hz	\$590.54	3/4" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 240311	13 13.0
217437	MVD 510/602 24 VAC 60 Hz	\$661.45	1" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 240311	13 6.2
216870	MVDLE 205/602 120 VAC 60 Hz	\$637.74	1/2" NPT 15 VA, NBR NEMA 12	REPL COIL MAG 100: 230983 REPL HYDR BRAKE 223159	13 2.7

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
216589	MVDLE 207/602 120 VAC 60 Hz	\$685.04	3/4" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 230986 REPL HYDR BRAKE 223158	13 6.1
216590	MVDLE 210/602 120 VAC 60 Hz	\$755.88	1" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 230986 REPL HYDR BRAKE 223158	13 6.9
217250	MVDLE 212/602 120 VAC 60 Hz	\$841.56	1 1/4" NPT 60 VA, NBR NEMA 12	REPL COIL MAG 300: 230989 REPL HYDR BRAKE 223158	13 13.4
216631	MVDLE 215/602 120 VAC 60 Hz	\$864.02	1 1/2" NPT 60 VA, NBR NEMA 12	REPL COIL MAG 300: 230989 REPL HYDR BRAKE 223158	13 13.4
216632	MVDLE 220/602 120 VAC 60 Hz	\$1,266.65	2" NPT 60 VA, NBR NEMA 12	REPL COIL MAG 300: 230989 REPL HYDR BRAKE 223158	13 14.9
216633	MVDLE 225/602 120 VAC 60 Hz	\$2,116.21	2 1/2" NPT 80 VA NBR NEMA 12	REPL COIL MAG 400: 230991 REPL HYDR BRAKE 223157	13 28.4
217251	MVDLE 230/602 120 VAC 60 Hz	\$2,955.92	3" NPT 90 VA, NBR NEMA 12	REPL COIL MAG 500: 230992 REPL HYDR BRAKE 223157	13 43.8
217320	MVDLE 205/602 24 VAC 60 Hz	\$637.74	1/2" NPT 15 VA, NBR NEMA 12	REPL COIL MAG 100: 240310 REPL HYDR BRAKE 223159	13 2.9
217321	MVDLE 207/602 24 VAC 60 Hz	\$685.04	3/4" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 240311 REPL HYDR BRAKE 223158	13 6.3
217322	MVDLE 210/602 24 VAC 60 Hz	\$755.88	1" NPT 25 VA, NBR NEMA 12	REPL COIL MAG 200: 240311 REPL HYDR BRAKE 223158	13 6.6

SINGLE AUTOMATIC SHUT-OFF VALVES – MV-D(LE)

Section 31

Description

The DUNGS MVD and the MVDLE are electrically operated, normally closed, automatic shutoff valves for gas burning equipment.

Application

The DUNGS MVD and MVDLE are recommended for industrial and commercial heating applications that require one or two automatic shutoff valves in series. The MVD and MVDLE safety shutoff valves are suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

PIPE SIZE/THREAD (Rp)	½", ¾", 1", 1¼", 1½", 2"
MAX. OPERATING PRESSURE	MVD: 7 PSI (500 mbar) MVDLE: 3 PSI (200 mbar)
ELECTRICAL RATING (+10% / -15%)	110-120 VAC/50-60 Hz 220-240 VAC/50-60 Hz 24 VDC
ENCLOSURE RATING	NEMA 12 / IP 54
ELECTRICAL CONNECTION	SCREW TERMINALS WITH SO CORD CONNECTIONS
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Aluminum body; Inlet side taps (G ¼"); Inlet gas strainer installed in the housing upstream valve (23 mesh screen); MVD fast opening & closing (<1 s), MVDLE - slow opening 20s MAX @ 70F & fast closing (<1 s); both models feature a manually adjustable flow rate (<10-100%); 100%

duty cycle; Refer to Flow Curves for Body Selection. European code requirements for position indication vary. The DUNGS K01 (266893) switch meets EN1531 and EN 161 code requirements for closed position signal contact.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267254	MVD 503/5 110 VAC, 50/60 Hz	\$570.05	RP 3/8 110 VAC, 50/60 HZ, 15 VA, NBR NEMA 12	REPL COIL MAG 100: 223156	13	1.9
231100	MVD 505/5 110 VAC, 50/60 Hz	\$615.37	RP 1/2 110 VAC, 50/60 HZ, 15 VA, NBR NEMA 12	REPL COIL MAG 100: 223156	13	2.1
231096	MVD 507/5 110 VAC, 50/60 Hz	\$668.93	RP 3/4 110 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	REPL COIL MAG 200: 224555	13	5.6
231097	MVD 510/5 110 VAC, 50/60 Hz	\$749.24	RP 1 110 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	REPL COIL MAG 200: 224555	13	5.3
267263	MVD 515/5 110 VAC, 50/60 Hz	\$869.86	RP 1 1/2 110 VAC, 50/60 HZ, 60 VA, NBR NEMA 12	REPL COIL MAG 300: 224565	13	6.1
278026	MVD 520/5 110 VAC, 50/60 Hz	\$1,320.46	RP 2 110 VAC, 50/60 HZ, 90 VA, NBR NEMA 12	REPL COIL MAG 400: 224571	13	13.0
158090	MVD 503/5 230 VAC, 50/60 Hz	\$570.05	RP 3/8 230 VAC, 50/60 HZ, 15 VA, NBR NEMA 12	REPL COIL MAG 100: 214206	13	1.8
158110	MVD 505/5 230 VAC, 50/60 Hz	\$615.37	RP 1/2 230 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	REPL COIL MAG 200: 214207	13	2.5
157530	MVD 507/5 230 VAC, 50/60 Hz	\$668.93	RP 3/4 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	230 REPL COIL MAG 200	13	5.4

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
157540	MVD 510/5 230 VAC, 50/60 Hz	\$749.24	RP 1 230 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	REPL COIL MAG 200: 214207	13 5.3
157550	MVD 515/5 230 VAC, 50/60 Hz	\$869.86	RP 1 1/2 230 VAC, 50/60 HZ, 60 VA NBR NEMA 12	REPL COIL MAG 300: 214208	13 12.8
167200	MVD 520/5 230 VAC, 50/60 Hz	\$1,320.46	RP 2 230 VAC, 50/60 HZ, 90 VA NBR NEMA 12	REPL COIL MAG 400: 214209	13 20.7
170750	MVD 525/5 230 VAC, 50/60 Hz	\$2,284.82	RP 2 1/2 230 VAC, 50/60 HZ 90 VA, NBR NEMA 12	REPL COIL MAG 500: 214210	13 31.5
247481	MVDLE 205/5 110 VAC, 50/60 Hz	\$722.49	RP 1/2 110 VAC, 50/60 HZ, 15 VA, NBR NEMA 12	REPL COIL MAG 100: 223156	13 2.5
267256	MVDLE 207/5 110 VAC, 50/60 Hz	\$775.91	RP 3/4 110 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	REPL COIL MAG 200: 224555	13 5.6
195550	MVDLE 210/5 110 VAC, 50/60 Hz	\$856.19	RP 1 110 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	REPL COIL MAG 200: 224555	13 6.2
267257	MVDLE 215/5 110 VAC, 50/60 Hz	\$964.94	RP 1 1/2 110 VAC, 50/60 HZ, 60 VA, NBR NEMA 12	REPL COIL MAG 300: 224565	13 13.3
108597	MVDLE 203/5 230 VAC, 50/60 Hz	\$687.02	RP 3/8 230 VAC, 50/60 HZ, 15 VA, NBR NEMA 12	REPL COIL MAG 100: 214206	13 2.1
222079	MVDLE 507/5 230 VAC, 50/60 Hz	\$900.03	RP 3/4 230 VAC, 50/60 HZ, 25 VA, NBR NEMA 12	REPL COIL MAG 200: 214207	13 6.0
222081	MVDLE 515/5 230 VAC, 50/60 Hz	\$1,081.91	RP 1 1/2 230 VAC, 50/60 HZ, 60 VA, NBR NEMA 12	REPL COIL MAG 300: 214208	13 13.3
222082	MVDLE 520/5 230 VAC, 50/60 Hz	\$1,542.37	RP 2 230 VAC, 50/60 HZ, 90 VA, NBR NEMA 12	REPL COIL MAG 400: 214209	13 21.6
240825	MV 502 110 VAC, 50/60 Hz	\$325.99	RP 1/4 110 VAC, 50/60 HZ, 5 VA, NBR NEMA 12	REPL COIL 233101	11 0.9
156630	LGV 507/5 110 VAC, 50/60 Hz	\$905.94	RP ¾" NORMALLY OPEN VENT VALVE 110 VAC, 50/60 HZ 15 VA, NBR NEMA 12	REPL COIL MAG 100: 223156 CSA APPROVED	11 5.9
119271	LGV 507/5 230 VAC, 50/60 Hz	\$905.94	RP ¾" NORMALLY OPEN VENT VALVE 230 VAC, 50/60 HZ, 15 VA, NBR NEMA 12	CSA APPROVED	11 5.9
208382	LGV 507/5 24 VDC	\$905.94	RP ¾" NORMALLY OPEN VENT VALVE 24 VDC, 15 VA, NBR NEMA 4	CSA APPROVED	11 5.9

SINGLE AUTOMATIC SHUT-OFF VALVES NEMA 4 W/PROOF OF CLOSURE – SV-(DLE)

Section 32

Description

The DUNGS SV and the SV-DLE are electrically operated, normally closed, automatic shutoff valves for gas burning equipment. The SV & SV-DLE /614 incorporate overtravel and a proof of closure switch.

Application

The SV and SV-DLE are recommended for industrial and commercial heating applications that require one or two automatic shutoff valves in series with proof of closure. The SV and SV-DLE safety shutoff valves are suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

PIPE SIZE/THREAD (Rp)	1/2", 3/4", 1", 1 1/4", 1 1/2", 2"
MAX. OPERATING PRESSURE	10 PSI (700 mbar)
ELECTRICAL RATING	120 VAC/50-60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 4 – Mounted upright only. Indoor only. NEMA 12, Outdoor
ELECTRICAL CONNECTION	DIN Connector with 1/2" NPT Conduit Adapter
OPERATING TIME	100% Duty Cycle
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C)

Aluminum body; NPT threaded inlet, NPT flanged outlet (supplied with valve); Multiple test ports, G 1/8 ISO 228 test ports available on the SV and SV-DLE. See sales brochure for details. Inlet gas strainer installed in the housing upstream valve (23 mesh screen); SV fast opening & closing (<1s), SV-DLE - slow opening 20s MAX @ 70F & fast closing (<1 s), and manually adjustable flow rate (0-100%); 100% duty cycle; Refer

to flow curves for body selection. Factory mounted and calibrated proof of closure switch: SPDT 10 A resistive, 8 FLA, 48 LRA @ 120 VAC; NEMA 4; -40 °F to +140 °F (-40 °C to +60 °C); Switch incorporates visual indication of valve (opened & closed). Conduit Adapter (240671) and DIN connector (210319) must be ordered and priced separately.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
277110	SV-D 1005/614 120 VAC, 50/60 Hz	\$864.77	1/2" NPT SMALL BODY, 20 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	3.3
277111	SV-D 1007/614 120 VAC, 50/60 Hz	\$907.63	3/4" NPT SMALL BODY, 20 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	3.3
267074	SV 1010/614 120 VAC, 50/60 Hz	\$972.08	1" NPT MEDIUM BODY, 25 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	9.3
267078	SV 1012/614 120 VAC, 50/60 Hz	\$1,015.02	1 1/4" NPT MEDIUM BODY, 25 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	9.3
267071	SV 1015/614 120 VAC, 50/60 Hz	\$1,057.92	1 1/2" NPT LARGE BODY, 45 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	16.1
267080	SV 1020/614 120 VAC, 50/60 Hz	\$1,165.36	2" NPT LARGE BODY, 45 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	16.1
267077	SV-DLE 1005/614 120 VAC, 50/60 Hz	\$1,015.02	1/2" NPT SMALL BODY, 20 VA	NEMA 4-INDOOR NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	3.5
267072	SV-DLE 1007/614 120 VAC, 50/60 Hz	\$1,057.92	3/4" NPT SMALL BODY, 20 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	3.5
267075	SV-DLE 1010/614 120 VAC, 50/60 Hz	\$1,122.30	1" NPT MEDIUM BODY, 25 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	9.3
267079	SV-DLE 1012/614 120 VAC, 50/60 Hz	\$1,165.36	1 1/4" NPT MEDIUM BODY, 25 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	9.3

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267070	SV-DLE 1015/614 120 VAC, 50/60 Hz	\$1,208.27	1 1/2" NPT LARGE BODY, 45 VA	REPL HYDR BRAKE 240458 NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	16.1
267081	SV-DLE 1020/614 120 VAC, 50/60 Hz	\$1,294.21	2" NPT LARGE BODY, 45 VA	REPL HYDR BRAKE 240458 NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	16.1

SINGLE AUTOMATIC SHUT-OFF VALVES NEMA 4 – SV-(DLE)

Section 33

Description

The DUNGS SV and the SV-DLE are electrically operated, normally closed, automatic shutoff valves for gas burning equipment.

Application

The SV and SV-DLE are recommended for industrial and commercial heating applications that require one or two automatic shutoff valves in series with proof of closure. The SV and SV-DLE safety shutoff valves are suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

PIPE SIZE/THREAD (Rp)	½", ¾", 1", 1¼", 1½", 2"
MAX. OPERATING PRESSURE	10 PSI (700 mbar)
ELECTRICAL RATING	120 VAC/50-60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 4 – Mounted upright only. Indoor only. NEMA 12, Outdoor
ELECTRICAL CONNECTION	DIN Connector with ½" NPT Conduit Adapter
OPERATING TIME	100% Duty Cycle
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C)

Aluminum body; NPT threaded inlet, NPT flanged outlet (supplied with valve); Multiple test ports, G 1/8 ISO 228 test ports available on the SV and SV-DLE. See sales brochure for details. Inlet gas strainer installed in the housing upstream valve (23 mesh screen); SV fast opening & closing (<1s), SV-DLE - slow opening 20s MAX @ 70F & fast closing (<1 s), and manually adjustable flow rate (0-100%); 100% duty cycle;

Refer to flow curves for body selection. Code requirements vary. FM requires visual indication on 1" and larger safety valves. The visual indicator (VI) 266949 or one CPI 400 (CPI) 266968, meet this requirement. These must be ordered separately. Conduit Adapter (240671), DIN connector (210319), and flanges must be ordered and priced separately.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
288491	SV-D 1005/604 120 VAC, 50/60 Hz	\$644.26	½" NPT SMALL BODY, 20 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	3.3
288492	SV-D 1007/604 120 VAC, 50/60 Hz	\$687.16	¾" NPT SMALL BODY, 20 VA	20 VA, NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	3.3
267103	SV 1010/604 120 VAC, 50/60 Hz	\$751.54	1" NPT MEDIUM BODY, 25 VA	25 VA, NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	9.3
267104	SV 1012/604 120 VAC, 50/60 Hz	\$794.55	1 1/4" NPT MEDIUM BODY, 25 VA	25 VA, NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	9.3
267105	SV 1015/604 120 VAC, 50/60 Hz	\$837.51	1 ½" NPT LARGE BODY, 45 VA	45 VA, NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	16.1
267106	SV 1020/604 120 VAC, 50/60 Hz	\$944.86	2" NPT LARGE BODY, 45 VA	45 VA, NEMA 4-INDOOR, NEMA 12-OUTDOOR	11	16.1
267107	SV-DLE 1005/604 120 VAC, 50/60 Hz	\$810.30	½" NPT SMALL BODY, 20 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	3.5
267108	SV-DLE 1007/604 120 VAC, 50/60 Hz	\$854.13	¾" NPT SMALL BODY, 20 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	3.5
267109	SV-DLE 1010/604 120 VAC, 50/60 Hz	\$901.89	1" NPT MEDIUM BODY, 25 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	9.3
267110	SV-DLE 1012/604 120 VAC, 50/60 Hz	\$944.86	1 1/4" NPT MEDIUM BODY, 25 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	9.3

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267111	SV-DLE 1015/604 120 VAC, 50/60 Hz	\$987.80	1 ½" NPT LARGE BODY, 45 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	16.1
267112	SV-DLE 1020/604 120 VAC, 50/60 Hz	\$1,073.71	2" NPT LARGE BODY, 45 VA	NEMA 4-INDOOR, NEMA 12-OUTDOOR REPL HYDR BRAKE 240458	11	16.1

Description

The HPSV high pressure safety shutoff valve is a single-stage automatic shut-off valve for gas engines or other high-pressure applications using 24 VDC. It is a double-seated valve with max operating pressure of up to 100 PSI (7 bar). With a fast-open/fast-close valve, the HPSV is suitable for industrial and commercial applications using spark ignited

gas engines for standby and prime power generation. POC and Visual indication options are available. The HPSV is suitable for dry natural gas, propane, butane, hydrogen, air, and inert gases for pressures up to 100 psig and H2S up to 0.1% by volume, dry. There are four 1/4" NPT pressure ports, two on each side.

Application

Some versions of the HPSV can be direct engine mounted. It has been tested and designed for installation with high levels of vibration. Please consult your Dungs Sales contact for information on vibration resistant versions.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

PIPE SIZE	2" ANSI B16.5, Class 150 flat face
TEMPERATURE RATING	-20°F to +140°F (-30°C to +60°C)
MAX. OPERATING PRESSURE	100 PSI (7 bar) acc. ANSI Z21.21/CSA 6.5 C/I
ELECTRICAL RATING	24 VDC (+10% / -15%)
ENCLOSURE RATING	NEMA X – Outdoor Installation, Hazardous Location Class 1. Div. 2
ELECTRICAL CONNECTION	Quick disconnect – MIL ACS02A-10SL-04P-003
OPERATING TIME	100% Duty Cycle
AMBIENT TEMP RATING	-20°F to +140°F (-29°C to +60°C)

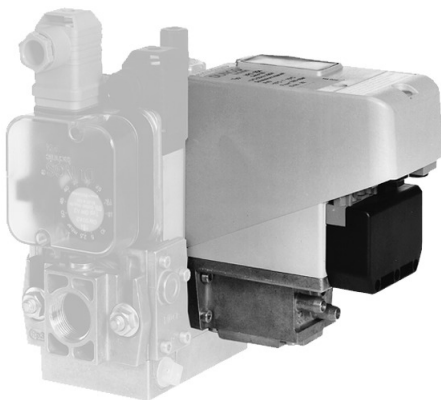
Housing: Aluminum, Steel; free of non-ferrous metals. Sealings on valve seats: NBR-based rubber. Gas strainer standard installed in the housing upstream 1 mm stainless steel mesh. 4 x 1/4" NPT taps available.

Connector (271568) is required for valve operation on all models. Seal (268153) is recommended.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
270890	HPSV 10020/604 VIP 24 VDC	\$2,770.53	2" ANSI FLANGED NO PROOF OF CLOSURE	HAZARDOUS LOCATION (CLASS I, DIV. 2) REPL COIL 270888	12	14.0
295852	HPSV 10020/614 HL 24 VDC	\$3,805.13	2" ANSI FLANGED WITH LED VISUAL INDICATION	HAZARDOUS LOCATION (CLASS I, DIV. 2) REPL COIL 295850	12	15.4
270888	HPSV Repl VIP Coil 24VDC	\$1,523.78	24VDC COIL	REPL COIL FOR 270890	19	4.6
295850	REPLACEMENT COIL HPSV/614 VI	\$1,523.78	24 VDC COIL	REPL COIL FOR 295852	19	0.0
271568	CONNECTOR	\$176.73	CONNECTOR - 2 POLES FOR VALVE COIL (ALL MODELS)	ROHS CONNECTOR FOR HPSV VALVES FOR WIRE SOLDERING 5/8-24	19	0.1
268153	SEAL FOR HPSV	\$67.49	2" ANSI 150LBS SPIRAL WOUND SEAL	SS316	19	0.5
296323	2m PHOENIX CABLE	\$77.72	4 POLE CONNECTOR 2 METER CABLE	WITH 90 DEGREE CONNECTOR W/ LOCK CLIP	19	0.8
296594	5m PHOENIX CABLE	\$96.00	4 POLE CONNECTOR 5 METER CABLE	WITH 90 DEGREE CONNECTOR W/ LOCK CLIP	19	0.8
298339	2m PHOENIX CABLE	\$75.43	4 POLE CONNECTOR 2 METER CABLE	WITH STRAIGHT CONNECTOR W/ LOCK CLIP	19	0.5
296057	5m PHOENIX CABLE	\$93.72	4 POLE CONNECTOR 5 METER CABLE	WITH STRAIGHT CONNECTOR W/ LOCK CLIP	19	0.8
296595	LOCK GUARD - CONNECTOR	\$13.71	REPL LOCK CLIP FOR HAZARDOUS LOCATION (HL) APPROVAL		19	0.8

Valve Proving Systems

Product	Model	Section
Valve Proving Systems, Modular Mount - VPS	US	40
Valve Proving Systems, Modular Mount - VPS	EU	41
Valve Proving Systems, Modular Mount - VPM	US/EU	44



Description

The DUNGS VPS 504 S06 is a valve proving system for DMV series safety valves. It checks that both safety shutoff valves in a DMV series gas train are fully closed before either a system startup and/or after system shutdown when wired and interlocked to a suitable flame safeguard control. The VPS 504 S06 will halt the startup sequence to a piece of gas burning equipment if it detects an open safety shutoff valve, thus preventing ignition under undesirable conditions.

Application

The VPS 504 S06 is recommended for industrial and commercial heating applications. Some authorities having jurisdiction accept the VPS 504 S06 in lieu of "proof of closure" when integrated with the pre-ignition system and/or in lieu of a vent valve when it checks the valves at start up and shut down. The VPS 504 S06 is suitable for natural gas, propane, air, and other inert gases. Not suitable for butane gas.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
ELECTRICAL RATING	120 VAC/60 Hz
CONTACT RATING	RUN T5: 4 A RES, 2 FLA @ 120 VAC/60 Hz
ENCLOSURE RATING	NEMA 12
ELECTRICAL CONNECTION	SCREW TERMINALS WITH 1/2" NPT CONDUIT CONNECTION
OPERATING TIME	100% DUTY CYCLE, MAX. 20 TEST CYCLES/HOUR
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Aluminum body; test cycle approximately 10 to 26s; light indication for permissive or alarm conditions; screw terminals for electrical connection with 1/2" conduit adapter; customer must provide 10 amp quick fuse or a 6.3 amp slow blow fuse. Code requirements vary.

Accepted by XL Gap Services (formerly IRI) in lieu of a vent line when used to check valves on startup and shut down. Accepted by XL Gap Services (formerly IRI) and FM for "proof-of-closure". Max switching-on duration not to exceed 20 cycles/hour. Not for use with Butane Gas

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
221073	VPS 504 S06 120 VAC, 60 Hz	\$911.59	cULus FM W/ 1/2" CONDUIT CONNECTION	SPDT Sw 4A @ 120 VAC	20 2.7
304726	VPS 508 S06 120 VAC, 60 Hz	\$1,179.18	cULus W/ 1/2" CONDUIT CONNECTION	SPDT Sw 4A @ 120 VAC	20 2.7
304725	VPS 508 S04 120 VAC, 60 Hz	\$1,179.18	cULus W/ SO CORD CONNECTION	SPDT Sw 4A @ 120 VAC	20 2.7
224983	VPS 504 S05 24 VDC	\$1,002.71	cULus CE W/ SO CORD CONNECTION	SPDT Sw 4A @ 24 VDC	20 2.7
251008	VPS 508 S05 24 VDC	\$1,179.18	cULus CE W/ SO CORD CONNECTION	SPDT Sw 4A @ 24 VDC	20 2.7

Description

The DUNGS VPS 504 S04 is a valve proving system for DMV series safety valves. It checks that both safety shutoff valves in a DMV series gas train are fully closed before either a system startup and/or after system shutdown when wired and interlocked to a suitable flame safeguard control. The VPS will halt the startup sequence to a piece of gas burning equipment if it detects an open safety shutoff valve, thus preventing ignition under dangerous conditions.

Application

The VPS 504 S04 is recommended for industrial and commercial heating applications. Where CE approval is required. The VPS is the means for proof of closure and normally open vent line alternative. The VPS is required for CE compliance on systems with capacities of 4.1 Mbtu and up. The VPS is suitable for natural gas, propane, air, and other inert gases. Not suitable for butane gas.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
ELECTRICAL RATING	110 VAC/50-60 Hz
(+10% / -15%)	230 VAC/50-60 Hz
CONTACT RATING	RUN: 4 A @ 110 VAC/50 Hz and 230 VAC/50 Hz
	ALARM: 1 A @ 110 VAC/50 Hz and 230 VAC/50 Hz
ENCLOSURE RATING	IP 54 / NEMA 12
ELECTRICAL CONNECTION	SCREW TERMINALS WITH SO CORD CONNECTION
OPERATING TIME	100% DUTY CYCLE, MAX. 20 TEST CYCLES/HOUR
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Aluminum body; test cycle approximately 10 to 26s; light indication for permissive or alarm conditions; Screw terminals with SO cord connection. European code requirements may vary. The DUNGS VPS

meets EN 746-2 code requirements for a leak tightness device as required for applications with capacities greater than 4,100,000 Btu. (1200 kW).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
221327	VPS 504 S04 110 VAC, 50 Hz	\$1,002.71	SO CORD CONNECTION	SPDT SW 4A @ 120 VAC	20 2.7
219881	VPS 504 S04 230 VAC, 50 Hz	\$1,002.71	SO CORD CONNECTION	SPDT SW 4A @ 230 VDC	20 2.7
219877	VPS 504 S02 230 VAC, 50 Hz	\$1,002.71	SO CORD CONNECTION	SPDT SW 4A @ 230 VDC	20 2.7
222388	VPS 504 S04 220 VAC, 60 Hz	\$1,002.71	SO CORD CONNECTION	SPDT SW 4A @ 230 VDC	20 2.7
223426	VPS 504 S04 110 VAC, 60 Hz	\$1,002.71	SO CORD CONNECTION	SPDT SW 4A @ 120 VAC	20 2.7

Description

The DUNGS VPM-VC is a valve module which can be used with any valve. It checks that both safety shutoff valves in a gas train are fully closed and tight before either a system startup and/or after system shutdown when wired and interlocked to a suitable flame safeguard control. The VPM-VC will halt the startup sequence for a gas burning equipment if it detects an open/untight safety shutoff valve, thus preventing ignition under undesirable conditions.

Application

The VPM-VC is recommended for industrial and commercial heating applications. Some authorities having jurisdiction accept the VPM-VC in lieu of "proof of closure" when integrated with the pre-ignition system and/or in lieu of a vent valve when it checks the valves at startup and shut down. The VPM-VC is suitable for any type of gas and pressure as it is not in contact with the gas. It can be set by jumper for most standard values and can be programmed through a service box and software for other valves. It allows to comply

with EN746-2 requirement of tightness testing up to the burner and allows counting the cycling of the valves as requested by NFPA 86. Requires the use of at least one pressure switch in between the safety valves and can be used with or without auxiliary valves depending on the application. SIL 2 Approved. VPM-VC allows testing at start-up, shutdown or one valve per cycle.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	NOT APPLICABLE
ELECTRICAL RATING	115VAC (+10% -15%) 230VAC 50/60 Hz
CONTACT RATING	VALVES OUTPUT: 2A PER VALVE ALARM: 1 A
ENCLOSURE RATING	IP 42
ELECTRICAL CONNECTION	PUNCH M16 CONNECTIONS
AMBIENT TEMP RATING	-5°F to 140°F (-20°C to +60°C)

ULc and ULus apply to 24Vdc and 115VAC, 50/60 Hz.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
259697	VPM-VC 120 VAC, 50/60 Hz	\$833.19	INCLUDES BASE	20	1.8
259696	VPM-VC 230 VAC, 50/60 Hz	\$833.19	INCLUDES BASE	20	2.0

Gas & Air Pressure Switches

Product	Model	Section
Gas Pressure Switches		
Gas Pressure Switches, Modular Mount - A2	US	50
Gas Pressure Switches, Pipe Mount - A4	US	51
Gas Pressure Switches, Modular Mount - A2	EU	52
Gas Pressure Switches, Pipe Mount - A4	EU	53
Gas Pressure Switches, Modular Mount - A5	EU	54
Gas Pressure Switches, Pipe Mount - A6	EU	55
Gas Pressure Switches, GGAO A4	US	56
Gas Pressure Switches, High Pressure - GW A4/2	US	57
Air Pressure Switches		
Air Pressure Switches - AA-A1	US	60
Air Pressure Switches - AA-A2	US	61
Air Pressure Switches - LGW-A2	EU	63
Air Pressure Switches - LGW-A4	EU	64
Air Pressure Switches - AA-A4	US	65



Description

The DUNGS GAO (Automatic Reset), GMH (High Manual Reset), and GML (Low Manual Reset) A2 pressure switches are compact pressure switches for DUNGS modular valve train components. A2 pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale.

Application

The DUNGS GAO, GMH, and GML A2 pressure switches are recommended for industrial and commercial heating applications with DUNGS DMV dual modular valves, DUNGS FRI modular pressure regulators, and the new Modular MBE valve bodies. The GAO, GMH, and GML A2 pressure switches are suitable for natural gas, propane, butane, air, hydrogen, and other inert gases.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

MAX. OPERATING PRESSURE	GAO, GMH and GML A2-x-2, -3, -4, -5, and -6: 7 PSI (500 mbar) GAO, GMH AND GML A2-x-8: 14 PSI (1000 mbar)
ELECTRICAL RATING (+10% / - 15%)	SILVER (Ag) CONTACTS RATINGS AC 10A RESISTIVE @ 120VAC AC 8A INDUCTIVE @ 120VAC DC min. 20 Ma @ 24VDC DC max. 1 A @ 48VDC
ENCLOSURE RATING	NEMA 4 or NEMA 1
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C) Series ending in -2, -3, -4, -5 and -6 -22°F to +140°F (-30°C to +60°C) Series ending in -8

Mounts directly to DMV, FRI and Flanges; use adapter (273777) for DMV downstream [Port 3]. Calibrated for vertical mounting, set point may change by 0.2" W.C. when mounted otherwise.

Screw terminals with 1/2 NPT Conduit connection; Neon light included. Mounting kit included (2 screws and O-ring).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266914	GAO-A2-4-2	\$152.60	0.16" TO 1.2" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA, NEMA 4	21	0.6
266915	GAO-A2-4-3	\$152.60	0.4" TO 4.0" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266916	GAO-A2-4-5	\$152.60	2" TO 20" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266917	GAO-A2-4-6	\$152.60	12" TO 60" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266918	GAO-A2-4-8	\$172.46	40" TO 200" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266924	GMH-A2-4-4	\$160.84	1" TO 20" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266925	GMH-A2-4-6	\$160.84	12" TO 60" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266926	GMH-A2-4-8	\$180.73	40" TO 200" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266942	GML-A2-4-4	\$160.84	1" TO 20" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6
266943	GML-A2-4-6	\$160.84	12" TO 60" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.6

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266944	GML-A2-4-8	\$180.73	40" TO 200" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	NEMA 4	21 0.6
273352	GAO-A2-4-2 w/24V LIGHT	\$209.16	0.16" TO 1.2" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
273353	GAO-A2-4-3 w/24V LIGHT	\$209.16	0.4" TO 4.0" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
273355	GAO-A2-4-5 w/24V LIGHT	\$209.16	2" TO 20" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
273356	GAO-A2-4-6 w/24V LIGHT	\$209.16	12" TO 60" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
273357	GAO-A2-4-8 w/24V LIGHT	\$229.02	40" TO 200" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
275244	GMH-A2-4-4 w/24V LIGHT	\$217.40	1" TO 20" WC, HIGH, MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
275242	GMH-A2-4-6 w/24V LIGHT	\$217.40	12" TO 60" WC, HIGH, MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
275243	GMH-A2-4-8 w/24V LIGHT	\$237.31	40" TO 200" WC, HIGH, MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
276641	GML-A2-4-4 w/24V LIGHT	\$217.40	1" TO 20" WC LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
275693	GML-A2-4-6 w/24V LIGHT	\$217.40	12" TO 60" WC LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
276642	GML-A2-4-8 w/24V LIGHT	\$237.31	40" TO 200" WC LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	NEMA 4 W/24 VAC/VDC LIGHT INSTALLED	21 0.6
298099	GMH-A2-1-4	\$163.37	1" TO 20" WC HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	VALVE MOUNT NEMA 1	21 0.6
298101	GMH-A2-1-6	\$163.37	12" TO 60" WC HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	VALVE MOUNT NEMA 1	21 0.6
298103	GMH-A2-1-8	\$163.37	40" TO 200" WC HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	VALVE MOUNT NEMA 1	21 0.6
298107	GML-A2-1-4	\$163.37	1" TO 20" WC LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	VALVE MOUNT NEMA 1	21 0.6
298108	GML-A2-1-6	\$163.37	12" TO 60" WC LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	VALVE MOUNT NEMA 1	21 0.6
298109	GML-A2-1-8	\$163.37	40" TO 200" WC LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	VALVE MOUNT NEMA 1	21 0.6

Description

The DUNGS GAO (Automatic Reset), GMH (High Manual Reset), and GML (Low Manual Reset) A4 pressure switches are adjustable pressure switches for automatic gas burning equipment controls. A4 pressure switches are suitable for making and/or breaking a circuit relative to changes in medium pressure relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale. Test nipple integrated in metal housing to verify setpoint.

Application

The DUNGS GAO, GMH, and GML A4 pressure switches are recommended for industrial and commercial heating applications with 1/4" NPT pipe connections. The GAO, GMH, and GML A4 pressure switch is suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	GAO A4-x-2, -3, -4, -5, and -6: 7 PSI (500 mbar) GMH AND GML-A4-x-2, -3, -4, -5, and -6: 7 PSI (500 mbar) GAO, GMH AND GML A4-x-8: 14 PSI (1000 mbar)
ELECTRICAL RATING (+10% -15%)	SILVER (Ag) CONTACT: AC 10A RESISTIVE @ 120VAC AC 8A INDUCTIVE @ 120VAC DC min. 20 mA @ 24VDC DC max. 1 A @ 24VDC & 48VDC GOLD (Au) CONTACT: DC max. 5 mA @ 5VDC DC max. 20 mA @ 24VDC
ENCLOSURE RATING	NEMA 4 / NEMA 1
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C) Series ending in -2, -3, -4, -5 and -6 -22°F to +140°F (-30°C to +60°C) Series ending in -8

Pipe mount; Calibrated for vertical mounting, set point may change by 0.2" W.C. when mounted otherwise; Screw terminals with

1/2 NPT Conduit connection; Neon light included.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266919	GAO-A4-4-2	\$152.60	0.16" TO 1.2" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266920	GAO-A4-4-3	\$152.60	0.4" TO 4" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266921	GAO-A4-4-5	\$152.60	2" TO 20" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266922	GAO-A4-4-6	\$152.60	12" TO 60" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266923	GAO-A4-4-8	\$172.46	40" TO 200" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266927	GMH-A4-4-4	\$160.84	1" TO 20" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266928	GMH-A4-4-6	\$160.84	12" TO 60" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266930	GMH-A4-4-8	\$180.73	40" TO 200" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266945	GML-A4-4-4	\$160.84	1" TO 20" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266947	GML-A4-4-6	\$160.84	12" TO 60" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
266948	GML-A4-4-8	\$180.73	40" TO 200" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
274451	GAO-A4-4-2 w/24 LIGHT	\$209.16	0.16" TO 1.2" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
274448	GAO-A4-4-3 w/24 LIGHT	\$209.16	0.4" TO 4" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
274449	GAO-A4-4-5 w/24 LIGHT	\$209.16	2" TO 20" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
274447	GAO-A4-4-6 w/24 LIGHT	\$209.16	12" TO 60" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
274450	GAO-A4-4-8 w/24 LIGHT	\$229.02	40" TO 200" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24 VDC RES; 1A MAX @ 24 VDC	21	0.7
275248	GMH-A4-4-4 w/24V LIGHT	\$217.40	1" TO 20" WC; HIGH; MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
275249	GMH-A4-4-6 w/24V LIGHT	\$217.40	12" TO 60" WC; HIGH; MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
275250	GMH-A4-4-8 w/24V LIGHT	\$237.31	40" TO 200" WC; HIGH; MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
276643	GML-A4-4-4 w/24V LIGHT	\$217.40	1" TO 20" WC; LOW; MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
276645	GML-A4-4-6 w/24V LIGHT	\$217.40	12" TO 60" WC; LOW; MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
276646	GML-A4-4-8 w/24V LIGHT	\$237.31	40" TO 200" WC; LOW; MANUAL RESET SPDT SW 10A @ 24VDC RES; 1A MAX @ 24VDC	21	0.7
266958	GAO-A4-4-3 GOLD CONTACT	\$234.67	0.4" TO 4" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24 VDC	21	0.7

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266959	GAO-A4-4-5 GOLD CONTACT	\$234.67	2" TO 20" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24 VDC	21	0.7
266960	GAO-A4-4-6 GOLD CONTACT	\$234.67	12" TO 60" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24 VDC	21	0.7
266966	GAO-A4-4-8 GOLD CONTACT	\$256.45	40" TO 200" WC; HIGH OR LOW; AUTOMATIC RESET SPDT SW 10A @ 24 VDC	21	0.7
298104	GMH-A4-1-4	\$163.37	1" TO 20" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
298105	GMH-A4-1-6	\$163.37	12" TO 60" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
298106	GMH-A4-1-8	\$183.57	40" TO 200" WC; HIGH; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
298110	GML-A4-1-4	\$163.37	1" TO 20" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
298111	GML-A4-1-6	\$163.37	12" TO 60" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7
298112	GML-A4-1-8	\$183.57	40" TO 200" WC; LOW; MANUAL RESET SPDT SW 10A @ 120 VAC 8A FLA	21	0.7

Description

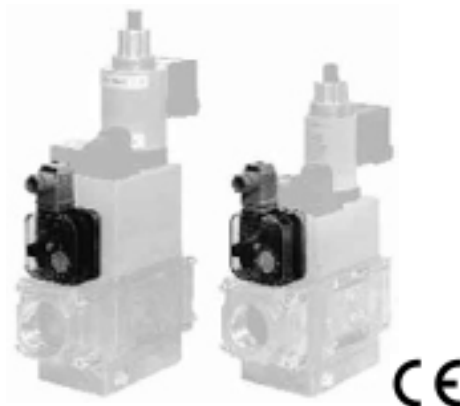
The DUNGS UB (High Manual Reset), and NB (Low Manual Reset) A2 pressure switches are compact pressure switches for DUNGS modular valve train components. A2 pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale.

Application

The DUNGS UB, and NB A2 pressure switches are recommended for industrial and commercial heating applications with DUNGS DMV dual modular valves and DUNGS FRI modular pressure regulators. Various mounting options allow direct mounting on the housing. The UB, and NB A2 pressure switches are suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

MAX. OPERATING PRESSURE	UB, NB-A2: 7 PSI (500 mbar)
ELECTRICAL RATING (+10% / -15%)	SILVER (Ag) CONTACT: AC 6A RESISTIVE @ 230VAC AC 3A INDUCTIVE @ 230VAC DC min. 20 mA @ 24VDC DC max. 1 A @ 48VDC
ENCLOSURE RATING	IP 54 / NEMA 12
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Mounts directly to DMV, FRI and Flanges; use adapter (273777) for DMV downstream [Port 3] Calibrated for vertical mounting,

set point may change by 0.8 mbar, when mounted otherwise;
Screw terminals with SO cord connection.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266900	UB 50 A2	\$183.95	2.5 TO 50 MBAR; HIGH; MANUAL RESET	21	1.0
266901	UB 150 A2	\$183.95	30 TO 150 MBAR; HIGH; MANUAL RESET	21	1.0
266902	UB 500 A2	\$206.69	100 TO 500 MBAR; HIGH; MANUAL RESET	21	1.0
266897	NB 50 A2	\$183.95	2.5 TO 50 MBAR; LOW; MANUAL RESET	21	1.0
266898	NB 150 A2	\$183.95	30 TO 150 MBAR; LOW; MANUAL RESET	21	1.0
266899	NB 500 A2	\$206.69	100 TO 500 MBAR; LOW; MANUAL RESET	21	1.0

Description

The DUNGS UB (High Manual Reset), and NB (Low Manual Reset) A4 pressure switches are adjustable pressure switches for automatic gas burning equipment controls. A4 pressure switches are suitable for making and/or breaking a circuit relative to changes in medium pressure relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale. Test nipple integrated in metal housing to verify setpoint.

Application

The UB, and NB A4 pressure switch is recommended for industrial and commercial heating, ventilation, and air-conditioning systems with G 1/4 female pipe connections. The UB, and NB A4 pressure switch is suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

MAX. OPERATING PRESSURE	UB, NB-A4: 7 PSI (500 mbar)
ELECTRICAL RATING	SILVER (Ag) CONTACT:
(+10% / -15%)	AC 6A RESISTIVE @ 230VAC
	AC 3A INDUCTIVE @ 230VAC
	DC min. 20 mA @ 24VDC
	DC max. 1 A @ 48VDC
ENCLOSURE RATING	IP 54 / NEMA 12
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Pipe mount; Calibrated for vertical mounting, set point may change by 0.8 mbar when mounted otherwise; Screw terminals with SO Cord connection.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266889	UB 50 A4	\$183.95	2.5 TO 50 MBAR; HIGH; MANUAL RESET	21	1.0
266856	UB 150 A4	\$183.95	30 TO 150 MBAR; HIGH; MANUAL RESET	21	1.0
266891	UB 500 A4	\$206.69	100 TO 500 MBAR; HIGH; MANUAL RESET	21	1.0
266888	NB 50 A4	\$183.95	2.5 TO 50 MBAR; LOW; MANUAL RESET	21	1.0
266890	NB 150 A4	\$183.95	30 TO 150 MBAR; LOW; MANUAL RESET	21	1.0
266892	NB 500 A4	\$206.69	100 TO 500 MBAR; LOW; MANUAL RESET	21	1.0

Description

The DUNGS GW (Automatic Reset) A5 pressure switches are compact pressure switches for DUNGS modular valve train components. A5 pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale.

Application

The DUNGS GW A5 pressure switches are recommended for industrial and commercial heating applications with DUNGS DMV dual modular valves and DUNGS FRI modular pressure regulators. Various mounting options allow direct mounting on the housing. The GW A5 pressure switches are suitable for natural gas, propane, butane, air, hydrogen, and other inert gases.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

MAX. OPERATING PRESSURE	GW A5: 7 PSI (500 mbar)
ELECTRICAL RATING	SILVER (Ag) CONTACT:
(+10% / -15%)	AC 6A RESISTIVE @ 230VAC
	AC 3A INDUCTIVE @ 230VAC
	DC min. 20 mA @ 24VDC
	DC max. 1 A @ 48VDC
ENCLOSURE RATING	IP 54 / NEMA 12
AMBIENT TEMP RATING	+5°F to +160°F (-15°C to +70°C)

Mounts directly to DMV, FRI, Flanges, and the new Modular MBE valve bodies. Use adapter (273777) for DMV downstream [Port 3] Calibrated for vertical mounting, set point may change by 0.8 mbar when mounted otherwise. DIN connector with screw terminals with SO cord connection.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266996	GW 3 A5	\$153.03	0.7 TO 3 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266980	GW 10 A5	\$153.03	2 TO 10 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266981	GW 50 A5	\$153.03	5 TO 50 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266982	GW 150 A5	\$153.03	5 TO 150 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266989	GW 500 A5	\$174.88	100 TO 500 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0

Description

The DUNGS GW (Automatic Reset) A6 pressure switches are adjustable pressure switches for automatic burner controls. A6 pressure switches are suitable for making and/or breaking a circuit relative to changes in medium pressure relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale. Test nipple integrated in metal housing to verify setpoint.

Application

The GW A6 pressure switch is recommended for industrial and commercial heating, ventilation, and air-conditioning systems with G 1/4 female pipe connections. The GW A6 pressure switch is suitable for natural gas, propane, butane, air, and other inert gases.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

MAX. OPERATING PRESSURE	GW A6: 7 PSI (500 mbar)
ELECTRICAL RATING (+10% - 15%)	SILVER (Ag) CONTACT: AC 6A RESISTIVE @ 230VAC AC 3A INDUCTIVE @ 230VAC DC min. 20 mA @ 24VDC DC max. 1 A @ 48VDC
ENCLOSURE RATING	IP 54 / NEMA 12
AMBIENT TEMP RATING	+5°F to +160°F (-15°C to +70°C)

Pipe mount; Calibrated for vertical mounting, set point may change by 0.8 mbar when mounted otherwise; DIN connector with screw terminals with SO cord connection.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266991	GW 3 A6	\$153.03	0.7 TO 3 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266992	GW 10 A6	\$153.03	2 TO 10 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266993	GW 50 A6	\$153.03	5 TO 50 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266994	GW 150 A6	\$153.03	5 TO 150 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0
266995	GW 500 A6	\$174.88	100 TO 500 MBAR; HIGH OR LOW; AUTOMATIC RESET	21	1.0

Description

The DUNGS GGAO A4 pressure switches are adjustable differential pressure switches for automatic gas burning equipment controls. GGAO pressure switches are suitable for making and/or breaking a circuit relative to changes in the difference of pressure between two medium (Air/Gas / Gas/Gas) relative to the set point. The set point can be set in the field by an adjustable dial with an integrated scale. Test nipple integrated in metal housing to verify setpoint.

Application

The DUNGS GGAO A4 differential pressure switches are recommended for industrial and commercial heating applications with 1/4" NPT pipe connections on one side and 1/8" NPT on the other connection. Those switches can be used for monitoring the air/gas differential pressure in premix systems or the pressure drops in gas filters. The GGAO pressure switch is suitable for natural gas, propane, butane, air, and other inert gases. They all come with gold contacts for use in low or high voltage systems.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

MAX. OPERATING PRESSURE	GGAO-A4-2,-3,-5,-6: 7 PSI (500 mbar)
ELECTRICAL RATING	GOLD (Au) CONTACT:
+10% / -15%)	• DC min. 5 mA @ 5VDC
	• DC max. 20 mA @ 24VDC
	Contact ratings if more than 20 Ma @ 24vdc applied to contacts:
	• AC 10 A RESISTIVE @ 120VAC
	• AC 8 A INDUCTIVE @ 120VAC
	• DC min. 20 Ma @ 12-48VDC
	• DC max. 1 A @ 12-48VDC
ENCLOSURE RATING	NEMA 4
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C)

Pipe mount; Calibrated for vertical mounting, set point may change by 0.2" W.C. when mounted otherwise; Screw terminals with 1/2 NPT Conduit connection; Neon light optional.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
271329	GGAO-A4-4-2	\$279.27	0.16-1.2 WC AUTOMATIC RESET	21	0.7
271330	GGAO-A4-4-3	\$279.27	0.4-4 WC AUTOMATIC RESET	21	0.7
271331	GGAO-A4-4-5	\$279.27	2-20 WC AUTOMATIC RESET	21	0.7
271332	GGAO-A4-4-6	\$314.22	12-60 WC AUTOMATIC RESET	21	0.7
289202	GGAO-A4-4-2 w/24V LIGHT	\$335.85	0.16-1.2 WC 24 V LIGHT INSTALLED AUTOMATIC RESET	21	1.0
289203	GGAO-A4-4-3 w/24V LIGHT	\$335.85	0.4-4 WC 24V LIGHT INSTALLED AUTOMATIC RESET	21	1.0
289210	GGAO-A4-4-5 w/24V LIGHT	\$335.85	2-20 WC 24V LIGHT INSTALLED AUTOMATIC RESET	21	1.0
289211	GGAO-A4-4-6 w/24V LIGHT	\$370.79	12-60 WC 24V LIGHT INSTALLED AUTOMATIC RESET	21	1.0

Description

The GW...A4/2 HP pressure switch is an adjustable pressure switch for automatic gas burning equipment controls. It is suitable for closing, opening, or switching over a current circuit when the actual pressure value deviates from the specified pressure setpoint. The specified pressure setpoint (operating point) is set at a setting wheel using a scale.

Application

Pressure monitoring in control systems suitable for gaseous fuels and other neutral gaseous media as well as air, flue gases and products of combustion. Contacts are Silver, gold-plated (Au). This switch has stainless steel membrane and Viton seals for compatibility for gases up to 1% H₂S (Digester / Landfill).

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	2-8 barg (gas) (30-115 Psig). Setpoint range 0.1 to 6 barg (40-2400" wc)
ENCLOSURE RATING	IP65 / NEMA 4
AMBIENT TEMP RATING	5°F to 158°F (15°C to 70°C)

Die cast zinc, powder coated 1/4" NPT pipe mount, screw terminals with M20x1.5 cable gland. Special gas rated up to 1.0% by volume H₂S wet.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
273274	GW 500 A4/2 HP	\$758.72	MAX LINE PRESSURE: 2 BARG (30 PSI) AT SET POINT 0.1-0.15 BARG (1.5-2.0 PSI)	MAX LINE PRESSURE: 5 BARG (75 PSI) AT SET POINT 0.15-0.5 BARG (2.0-7.0 PSI) IP 65	22	2.1
273275	GW 2000 A4/2 HP	\$758.72	MAX LINE PRESSURE: 5 BARG (75 PSI)	0.4 - 2.0 BARG SET POINT (6 - 30 PSIG)	22	2.2
273276	GW 6000 A4/2 HP	\$758.72	MAX LINE PRESSURE: 8 BARG (120 PSI)	1.0 - 6.0 BARG SET POINT (15 - 85 PSIG)	22	2.3

AIR PRESSURE SWITCHES – AA-A1

Section 60

Description

The DUNGS AA...A1 differential pressure switches are factory adjustable (within listed pressure range), compact pressure switches for automatic gas burning equipment controls. Available with hose connections. AA...A1 differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point.

Application

Differential pressure monitoring in firing, ventilation, and air-conditioning systems. The AA...A1 can be used as a pressure, vacuum or differential pressure switch for air and non-aggressive gases. Not suitable for natural gas, propane, butane, and other combustible gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)



Specifications

MAX. OPERATING PRESSURE	1.5 PSI (103 mbar)
ELECTRICAL RATING (+10% / -15%)	Silver (Ag) contact ratings AC 5A resistive @ 120 VAC AC 3A resistive @ 120 VAC DC min. 20 mA @ 24 VDC DC max. 1 A @ 48 VDC
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C)

Air pressure switch for differential, vacuum or positive pressure; with automatic reset; 0.16" (4 mm) diameter hose connections; screw adjustable setpoint; ¼" x 1/32" (6.3 x 0.8 mm) flat male terminals.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
277329	AA-A1-0-2	\$65.91	0.16" TO 1.2" WC HOSE BARB CONNECTION	21	0.4
277328	AA-A1-0-3	\$65.91	0.4" TO 4" WC HOSE BARB CONNECTION	21	0.4

Description

The DUNGS AA...A2 differential pressure switches are field adjustable, compact pressure switches for automatic gas burning equipment controls. Available with hose or NPT threaded connections. AA...A2 differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point.

Application

Differential pressure monitoring in firing, ventilation, and air-conditioning systems. The AA...A2 can be used as a pressure, vacuum, or differential pressure switch for air and non-aggressive gases. Not suitable for natural gas, propane, butane, and other combustible gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
ELECTRICAL RATING (+10% / -15%)	Silver (Ag) contact ratings AC 5A resistive @ 120 VAC AC 3A resistive @ 120 VAC DC min. 20 mA @ 24 VDC DC max. 1 A @ 48 VDC
ENCLOSURE RATING	NEMA 4
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C)

Air pressure switch for differential, vacuum or positive pressure; with automatic reset; AA-A2-4 features 0.16" (4 mm) diameter hose connections; AA-A2-6 features 1/4" NPT positive connection and

1/8" NPT negative connection and includes a test button in the lower housing; both models feature field adjustable setpoint.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266910	AA-A2-4-2	\$110.37	0.16" TO 1.2" WC HOSE BARB CONNECTION	21	0.4
266911	AA-A2-4-3	\$110.37	0.4" TO 4" WC HOSE BARB CONNECTION	21	0.5
266912	AA-A2-4-5	\$110.37	2" TO 20" WC HOSE BARB CONNECTION	21	0.4
266913	AA-A2-4-6	\$110.37	12" TO 60" WC HOSE BARB CONNECTION	21	0.5
266932	AA-A2-6-2	\$131.65	0.16" TO 1.2" WC THREADED CONNECTION	21	0.5
266934	AA-A2-6-3	\$131.65	0.4" TO 4" WC THREADED CONNECTION	21	0.5
266936	AA-A2-6-5	\$131.65	2" TO 20" WC THREADED CONNECTION	21	0.5
266938	AA-A2-6-6	\$131.65	12" TO 60" WC THREADED CONNECTION	21	0.5

Description

The DUNGS LGW...A2 differential pressure switches are field adjustable, compact pressure switches for automatic gas burning equipment controls. Available with hose or G threaded connections. LGW...A2 differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point. LGW...A2 versions feature hose connections. LGW...A2P versions feature G threaded connections and a test button in the lower housing.

Application

Differential pressure monitoring in firing, ventilation, and air-conditioning systems. The LGW...A2 can be used as a pressure, vacuum, or differential pressure switch for air and non-aggressive gases. Not suitable for natural gas, propane, butane and other combustible gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
ELECTRICAL RATING	Silver (Ag) contact ratings
(+10% / -15%)	AC 6A resistive @ 230 VAC
	AC 3A resistive @ 230 VAC
	DC min. 20 mA
	DC max. 1 A
ENCLOSURE RATING	IP 54
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Air pressure switch for differential, vacuum, or positive pressure; with automatic reset; LGW-A2 features 4 mm (0.16") diameter hose connections; LGW-A2P features G1/4" positive connection and G1/8" negative connection; screw adjustable setpoint; Screw terminals with SO cord connection.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266847	LGW 3 A2	\$121.33	0.4 TO 3 MBAR HOSE CONNECTION	21	0.5
266848	LGW 10 A2	\$121.33	1 TO 10 MBAR HOSE CONNECTION	21	0.5
266849	LGW 50 A2	\$121.33	2.5 TO 50 MBAR HOSE CONNECTION	21	0.5
266850	LGW 150 A2	\$121.33	30 TO 150 MBAR HOSE CONNECTION	21	0.5
266853	LGW 3 A2P	\$144.83	0.4 TO 3 MBAR THREADED CONNECTION	21	0.5
266854	LGW 10 A2P	\$144.83	1 TO 10 MBAR THREADED CONNECTION	21	0.5
266953	LGW 50 A2P	\$144.83	2.5 TO 50 MBAR THREADED CONNECTION	21	0.8
266855	LGW 150 A2P	\$144.83	30 TO 150 MBAR THREADED CONNECTION	21	0.5

Description

The DUNGS LGW...A4 differential pressure switches are field adjustable, compact pressure switches for automatic gas burning equipment controls. Available with RP threaded connections. LGW...A4 differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point.

Application

Differential pressure monitoring in firing, ventilation, and air-conditioning systems. The LGW...A4 can be used as a pressure, vacuum, or differential pressure switch for air and nonaggressive gases. Not suitable for natural gas, propane, butane, and other combustible gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
ELECTRICAL RATING (+10% / -15%)	Silver (Ag) contact ratings AC 6A resistive @ 230 VAC AC 3A resistive @ 230 VAC DC min. 20 mA DC max. 1 A
ENCLOSURE RATING	IP 54
AMBIENT TEMP RATING	+5°F to +140°F (-15°C to +60°C)

Thread Connection; Air pressure switch for differential, vacuum, or positive pressure; with automatic reset; Screw terminals with SO cord connection.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266954	LGW 3 A4	\$167.82	0.4 TO 3 MBAR THREADED CONNECTION	21	0.6
266955	LGW 10 A4	\$167.82	1 TO 10 MBAR THREADED CONNECTION	21	0.6
266956	LGW 50 A4	\$167.82	2.5 TO 50 MBAR THREADED CONNECTION	21	0.6
266957	LGW 150 A4	\$167.82	30 TO 150 MBAR THREADED CONNECTION	21	0.6

Description

The DUNGS AA...A4 differential pressure switches are field adjustable, compact pressure switches for automatic gas burning equipment controls. Available with NPT threaded connections. AA...A4 differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point.

Application

Differential pressure monitoring in firing, ventilation, and air-conditioning systems. The AA...A4 can be used as a pressure, vacuum, or differential pressure switch for air and nonaggressive gases. Not suitable for natural gas, propane, butane, and other combustible gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

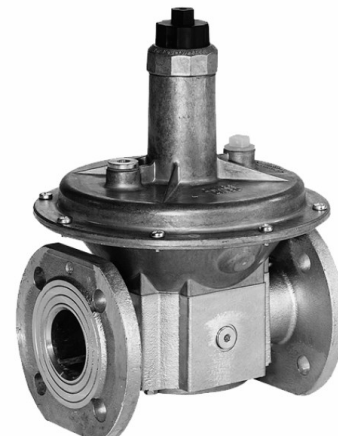
MAX. OPERATING PRESSURE	7 PSI (500 mbar)
ELECTRICAL RATING (+10% / -15%)	Silver (Ag) contact ratings AC 5A resistive @ 120 VAC AC 3A resistive @ 120 VAC DC min. 20 mA @ 24 VDC DC max. 1 A @ 48 VDC
ENCLOSURE RATING	NEMA 4
AMBIENT TEMP RATING	-40°F to +140°F (-40°C to +60°C)

AA-A4-4 models feature 1/4" NPT positive connection and 1/8" NPT negative connection with Die Cast Aluminum Base; 1/4" x 1/32" (6.3 x 0.8 mm) flat male terminals.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267142	AA-A4-4-2	\$147.50	0.16" TO 1.2" WC THREADED CONNECTION	21	0.7
267143	AA-A4-4-3	\$147.50	0.4" TO 4" WC THREADED CONNECTION	21	0.6
267144	AA-A4-4-4	\$147.50	2" TO 20" WC THREADED CONNECTION	21	0.7
267145	AA-A4-4-6	\$147.50	12" TO 60" WC THREADED CONNECTION	21	0.6

Gas Pressure Regulators

Product	Model	Section
Modular Pressure Regulators- FRI	US/EU	70
Stand Alone Pressure Regulators - 7 PSI - FRS	US	71
Stand Alone Pressure Regulators - 10 PSI - FRS	US	72
Line Pressure Regulators - 10 PSI - FRS	US	73
Stand Alone Pressure Regulators - Flanged - FRS	US/EU	74
Stand Alone Pressure Regulators - 500mbar - FRS	EU	75
FRM 1000xx & 2500xx	US	76
SAV Safety Shut Off Valve Medium Pressure Regulator FRM-NOC	US	77
FRM-NOC / SAV	EU	78
SAV Safety Shut Off Valve	EU	79
Proportionators / Zero Governor - FRG	US	80
Proportionators / Zero Governor - FRNG	EU	81
Proportionators / Zero Governor - Flanged - FRNG	US/EU	82
Safety Pressure Relief - FRSBV	EU	83



Description

The DUNGS FRI/6 pressure regulator is a spring-loaded pressure regulator with adjustable setpoint spring. Internal sensor for regulating output pressure and a 50 micron gas filter installed upstream all in one housing.

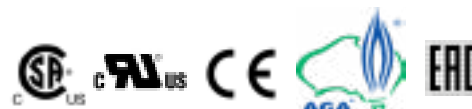
- With mounting kit, FRI/6 pressure regulator with gas filter directly mounts upstream or downstream of the DMV (Dual Modular Valve).
- Lock-up Type Regulator
- Vent limiter; approved as a vent-less regulator by some authorities having jurisdiction. (Review applicable codes for vent line requirements).

Application

The DUNGS FRI/6 is recommended for industrial and commercial heating applications and is suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar) CE; 5 PSI (360 mbar) CSA
INLET PRESSURE RANGE	2 to 200 in. W.C. (5 mbar to 500 mbar)
OUTLET PRESSURE RANGE	1 to 80 in. W.C. (2.5 mbar to 200 mbar); adjustable with different springs
GAS FILTER (standard)	50 micron; replaceable
AMBIENT TEMP RATING	+5°F to +150 °F for up to 7 PSI for regulating behavior (+/- 10% of setpoint). -40°F to +150 °F: Diaphragms are suitable for the low temperature, but there may be out of range regulating behavior. CSA Certified: -10 °F to +150 °F for up to 5 PSI.

Aluminum body; Two G 1/8" downstream taps; one G 1/8" tap on top; mounts directly to DMV or stand-alone with flanges. DMV Mounting kit and stand-alone mounting kits included; Stand-alone flanges sold separately (same as used with DMV); Refer to selection guide for

technical specifics, flow and pressure drop. Refer to spring guide for correct output pressure. For Factory Installed Spring Changes, See Page 170.1

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
230472	FRI 705/6	\$451.94	1/2", 3/4", 1" NPT OR RP OUTLET PRESSURE RANGES 1" TO 80" W.C.	40	1.5
230473	FRI 707/6	\$464.52	1/2", 3/4", 1" NPT OR RP OUTLET PRESSURE RANGES 1" TO 80" W.C.	40	2.0
230474	FRI 710/6	\$479.91	1", 1 1/4", 1 1/2", 2" NPT OR RP OUTLET PRESSURE RANGES 1" TO 80" W.C.	40	4.1
230475	FRI 712/6	\$496.93	1", 1 1/4", 1 1/2", 2" NPT OR RP OUTLET PRESSURE RANGES 1" TO 80" W.C.	40	4.1

STAND ALONE PRESSURE REGULATORS -7 PSI - FRS

Section 71

Description

The DUNGS FRS 7.../6 pressure regulator is a spring-loaded pressure regulator with adjustable setpoint spring. Internal sensor for regulating output pressure.

- Input pressures up to 7 PSI (CSA to 5 PSI)
- High flow rate
- Sturdy, precise and sensitive regulation of regulator output pressure
- Lock-up Type Regulator
- Vent limiter; approved as a vent-less regulator by some authorities having jurisdiction. (Review applicable codes for vent line requirements).

Application

The DUNGS FRS 7.../6 pressure regulator is recommended for industrial and commercial heating applications and is suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar) CE; 5 PSI (360 mbar) CSA
INLET PRESSURE RANGE	2 to 200 in. W.C. (5 mbar to 500 mbar)
OUTLET PRESSURE RANGE	1 to 80 in. W.C. (2.5 mbar to 200 mbar); adjustable with different springs
AMBIENT TEMP RATING	+5°F to +160 °F for up to 10 PSI for regulating behavior (+/- 10% of setpoint). -40°F to +160 °F for up to 5 PSI: Diaphragms are suitable for the low temperature, but there may be out of range regulating behavior CSA Certified: -20 °F to +160 °F for up to 5 PSI.

Aluminum body Two upstream and downstream taps; one tap on top; optional external feedback connection; Refer to selection guide for technical specifics, flow and pressure drop. Refer to spring guide for correct output pressure. For Factory Installed Spring Changes, See Page 170.1

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)	
229595	FRS 705/6	\$430.26	1/2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) NO REPAIR KIT AVAILABLE	41	1.3
229608	FRS 707/6	\$474.93	3/4" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) NO REPAIR KIT AVAILABLE	41	2.2
229609	FRS 710/6	\$542.03	1" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) NO REPAIR KIT AVAILABLE	41	2.7
229610	FRS 712/6	\$671.09	1 1/4" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) REPAIR KIT 068924	41	2.7
229611	FRS 715/6	\$776.91	1 1/2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) REPAIR KIT 068924	41	5.5
229612	FRS 720/6	\$937.67	2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) REPAIR KIT 068932	41	7.7
229613	FRS 725/6	\$1,752.17	2 1/2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) REPAIR KIT 068940	41	16.5
229614	FRS 730/6	\$1,997.88	3" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) REPAIR KIT 091868	41	22.0

Description

The DUNGS FRS 7.../6 pressure regulator is a spring-loaded pressure regulator with adjustable setpoint spring. Internal sensor for regulating output pressure.

- Input pressures up to 10 PSI (CSA to 5 PSI)
- High flow rate
- Sturdy, precise and sensitive regulation of regulator output pressure
- Lock-up Type Regulator
- Vent limiter; approved as a vent-less regulator by some authorities having jurisdiction. (Review applicable codes for vent line requirements).

Application

The DUNGS FRS 7.../6 pressure regulator is recommended for industrial and commercial heating.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	10 PSI (500 mbar); 5 PSI (360 mbar) CSA
INLET PRESSURE RANGE	2 to 200 in. W.C. (5 mbar to 500 mbar)
OUTLET PRESSURE RANGE	1 to 80 in. W.C. (2.5 mbar to 200 mbar); adjustable with different springs
AMBIENT TEMP RATING	+5°F to +160 °F for up to 10 PSI for regulating behavior (+/- 10% of setpoint). -40°F to +160 °F for up to 5 PSI: Diaphragms are suitable for the low temperature, but there may be out of range regulating behavior CSA Certified: -20 °F to +160 °F for up to 5 PSI.

Aluminum body; Two upstream and downstream taps; one tap on top; optional external feedback connection; Refer to selection guide for technical specifics, flow and pressure drop. Refer to spring guide for correct output pressure. For Factory Installed Spring Changes See page 170.1

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
269318	FRS 705/6-10 PSI	\$430.26	1/2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	1.3
267003	FRS 707/6-10 PSI	\$474.93	3/4" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	2.2
267005	FRS 710/6-10 PSI	\$542.03	1" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	2.7
267007	FRS 712/6-10 PSI	\$671.09	1 1/4" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	2.7
267009	FRS 715/6-10 PSI	\$776.91	1 1/2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	5.5
267011	FRS 720/6-10 PSI	\$937.67	2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	7.7
269324	FRS 725/6-10 PSI	\$1,752.17	2 1/2" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	16.5
269327	FRS 730/6-10 PSI	\$1,997.88	3" NPT OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	22.0

Description

The DUNGS FRS 7.../6 line pressure regulators, are a balancing type, spring-loaded regulator with an adjustable setpoint. They feature an internal sensor for regulating output pressure.

- Input pressures up to 10 PSI (CSA to 5 PSI)
- High flow rate
- Sturdy, precise and sensitive regulation of regulator output pressure
- Lock-up Type Regulator
- Vent limiter; approved as a vent-less regulator by some authorities having jurisdiction. (Review applicable codes for vent line requirements).

Application

The FRS series line pressure regulators are recommended for any application requiring a line regulator to drop inlet pressures to a lower pressure suitable for an appliance or equipment. Suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	Factory Certified for up to 10 PSI (700 mbar) ANSI Z21.80 CSA Certified for up to 5 PSI (350 mbar)
INLET PRESSURE RANGE	2 to 200 in. W.C. (5 mbar to 500 mbar)
OUTLET PRESSURE RANGE	Class I 4-10" WC. Includes 10 to 22" WC OPD (Over Pressure Protection Device) Class II 24-40
AMBIENT TEMP RATING	+5°F to +160 °F for up to 10 PSI for regulating behavior (+/- 10% of setpoint). -40°F to +160 °F for up to 5 PSI: Diaphragms are suitable for the low temperature, but there may be out of range regulating behavior CSA Certified: -20 °F to +150 °F

Aluminum body; Two upstream and downstream taps; one tap on top;
Refer to selection guide for technical specifics, flow and pressure drop.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267002	LINE REGULATOR 1/2" CL1 OPD	\$1,322.81	1/2" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 1.3
269320	LINE REGULATOR 3/4" CL1 OPD	\$1,450.01	3/4" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 2.2
269321	LINE REGULATOR 1" CL1 OPD	\$1,584.06	1" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 2.7
269322	LINE REGULATOR 1 1/4" CL1	\$1,876.07	1 1/4" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 2.7
267010	LINE REGULATOR 1 1/2" CL1	\$2,365.58	1 1/2" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 5.5
267012	LINE REGULATOR 2" CL1 OPD	\$2,855.45	2" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 7.7
269325	LINE REGULATOR 2 1/2" CL1	\$5,007.91	2 1/2" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 16.5
269328	LINE REGULATOR 3" CL1 OPD	\$5,577.36	3" NPT NPTF 4-10" WC SETTING	10-22" WC OPD	41 22.0

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
269319	LINE REGULATOR 1/2" CL2	\$585.69	1/2" NPT 24-40" WC SETTING	41	1.3
267004	LINE REGULATOR 3/4" CL2	\$629.62	3/4" NPT 24-40" WC SETTING	41	2.2
267006	LINE REGULATOR 1" CL2	\$696.66	1" NPT 24-40" WC SETTING	41	2.7
267008	LINE REGULATOR 1 1/4" CL21	\$825.75	1 1/4" NPT 24-40" WC SETTING	41	2.7
269323	LINE REGULATOR 1 1/2" CL2	\$931.54	1 1/2" NPT 24-40" WC SETTING	41	5.5
267013	LINE REGULATOR 2" CL2	\$1,137.42	2" NPT 24-40" WC SETTING	41	7.7
269326	LINE REGULATOR 2 1/2" CL2	\$1,975.92	2 1/2" NPT 24-40" WC SETTING	41	16.5
269329	LINE REGULATOR 3" CL2	\$2,221.65	3" NPT 24-40" WC SETTING	41	22.0

STAND ALONE PRESSURE REGULATOR – FLANGED - FRS

Section 74

Description

The DUNGS FRS 5.../10 pressure regulator is a spring-loaded pressure regulator with adjustable setpoint spring. Internal sensor for regulating output pressure.

- Input pressures up to 7 PSI (CSA to 5 PSI).
- High flow rate.
- Sturdy, precise and sensitive regulation of regulator output pressure.
- Lock-up Type Regulator
- Vent limiter; approved as a vent-less regulator by some authorities having jurisdiction. (Review applicable codes for vent line requirements).
- DIN PN16 Flange connections.

Application

The DUNGS FRS 5.../10 pressure regulator is recommended for industrial and commercial heating applications and is suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar) CE; 5 PSI (350mbar) CSA
INLET PRESSURE RANGE	2 to 200 in. W.C. (5 mbar to 500 mbar)
OUTLET PRESSURE RANGE	1 to 80 in. W.C. (2.5 mbar to 150 mbar); adjustable with different springs.
AMBIENT TEMP RATING	-40°F to +150 °F Factory certified for up to 5 PSI; Diaphragms are suitable for the low temperature, but there may be out of range regulating behavior -20 °F to +150 °F CSA Certified to 5 PSI.

Aluminum body; Two upstream and downstream taps; one tap on top;

Refer to selection guide for technical specifics, flow and pressure drop.

Refer to spring guide for correct output pressure.

For Factory Installed Spring Changes See page 170.1

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
065144	FRS 5040 Internal Sensor	\$790.41	DN. 40 OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	7.7
065151	FRS 5050 Internal Sensor	\$973.91	DN. 50 OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	11.0
058792	FRS 5065 Internal Sensor	\$1,788.45	DN. 65 OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	16.5
079681	FRS 5080 Internal Sensor	\$2,197.63	DN. 80 OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	22.0
082552	FRS 5100 Internal Sensor	\$3,571.52	DN. 100 OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	35.3
013250	FRS 5125 Internal Sensor	\$6,875.58	DN. 125 OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	61.7
013268	FRS 5150 Internal Sensor	\$11,343.70	DN. 150 OUTLET PRESSURE RANGES 1" TO 80" W.C.	41	83.8

STAND ALONE PRESSURE REGULATORS 500 MBAR - FRS

Section 75

Description

The DUNGS FRS 5../10 pressure regulator is a spring-loaded pressure regulator with adjustable setpoint spring. Internal sensor for regulating output pressure.

- Input pressures up to 7 PSI (500 mbar)
- High flow rate
- Sturdy, precise and sensitive regulation of regulator output pressure
- Vent limiter; approved as a vent-less regulator by some authorities having jurisdiction. (Review applicable codes for vent line requirements).

Application

The DUNGS FRS 5../10 pressure regulator is recommended for industrial and commercial heating applications and is suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
INLET PRESSURE RANGE	2 to 200 in. W.C. (5 mbar to 500 mbar)
OUTLET PRESSURE RANGE	1 to 80 in. W.C. (2.5 mbar to 150 mbar); adjustable with different springs.
AMBIENT TEMP RATING	-40°F to +150 °F Factory certified for up to 5 PSI; Diaphragms are suitable for the low temperature, but there may be out of range regulating behavior. -20 °F to +150 °F CSA Certified to 5 PSI.

Aluminum body; One upstream tap on each side; Refer to selection guide for technical specifics, flow and pressure drop. Refer to spring guide for correct output pressure. For Factory Installed Spring Changes, See page 170.1

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
086462	FRS 503 3/8 Rp	\$428.62	OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) NO REPAIR KIT AVAILABLE	41	1.0
070383	FRS 505 1/2 Rp	\$473.34	OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) NO REPAIR KIT AVAILABLE	41	1.3
070391	FRS 507 3/4 Rp	\$522.46	OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) NO REPAIR KIT AVAILABLE	41	2.2
070409	FRS 510 1 Rp	\$596.17	OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) NO REPAIR KIT AVAILABLE	41	2.7
058446	FRS 515 1 1/2 Rp	\$854.58	OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) REPAIR KIT 068924	41	2.7
058628	FRS 520 2 Rp	\$1,031.36	OUTLET PRESSURE RANGES 1" TO 80" W.C.	STANDARD SPRING 4" TO 12" W.C. (BLUE) REPAIR KIT 068932	41	5.5

Description

The DUNGS FRM medium pressure regulator is a direct acting pressure regulator with adjustable setpoint springs and modular mounted safety shut-off valve (SAV).

- Input pressures up to 360 Psig (25 barg) depending on versions
- FRM Lock Up – lock up pressure class up to SG10
- External impulse
- Outlet pressure range 0.5 to 22 Psig (30-1500 mbar)
- Minimum differential pressure:
ND – 270 mbar, MD – 350 mbar,
HD – 500 mbar

All regulators are available with incorporated slam shut valves with overpressure and, when required, under-pressure shut off.

Application

With input pressures up to 10 bar (150 PSI), and high flow rate, the FRM provides accurate and sensitive regulation of the outlet pressure. The FRM has a flanged connection according to DN 25 - DN 50 or ANSI 150Lbs. Suitable for gas family 1, 2, 3 – natural gas, propane, and other neutral gases.

ANSI versions do not come standard with CE Approvals. CE versions have the same cost but will have extended lead times.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE:	150 Psig (10 barg) or 285 Psig (19.5 barg) or 360 Psig (25 barg) depending on versions
INPUT PRESSURE RANGE:	150 Psig (10 barg) or 285 Psig (19.5 barg) or 360 Psig (25 barg) depending on versions
OUTPUT PRESSURE RANGE:	0.5 Psig to 22 Psig (30-1500 mbar) or 15 to 60 Psig (1 to 4 barg) depending on versions
AMBIENT TEMP RATING	-40°F to +140°F (-20°C to +60°C)

Cast iron, Steel, NBR. Refer to Datasheet for technical specifics, flow and pressure drop. Refer to spring guide for correct output pressure. Spring must be identified at time of order but included in the price of FRM.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
271786	FRM100025/SAV ND ANSI	\$3,098.67	150 PSIG INLET PRESSURE RATING 0.5 TO 1.5 PSIG OUTLET PRESSURE	42	88.0
273277	FRM100025/SAV MD ANSI	\$3,098.67	150 PSIG INLET PRESSURE RATING 1-6 PSIG OUTLET PRESSURE	42	75.0
273278	FRM100025/SAV HD ANSI	\$3,331.62	150 PSIG INLET PRESSURE RATING 5.8 TO 22 PSIG OUTLET PRESSURE	42	84.0
273279	FRM100040/SAV ND ANSI	\$3,435.53	150 PSIG INLET PRESSURE RATING .5 TO 1.5 PSIG OUTLET PRESSURE	42	97.0
273280	FRM100040/SAV MD ANSI	\$3,435.53	150 PSIG INLET PRESSURE RATING 1 TO 6 PSIG OUTLET PRESSURE	42	84.0
273281	FRM100040/SAV HD ANSI	\$3,624.89	150 PSIG INLET PRESSURE RATING 5.8 TO 22 PSIG OUTLET PRESSURE	42	93.0
273282	FRM100050/SAV ND ANSI	\$3,772.38	150 PSIG INLET PRESSURE RATING .5 TO 1.5 PSIG OUTLET PRESSURE	42	112.0
273283	FRM100050/SAV MD ANSI	\$3,772.38	150 PSIG INLET PRESSURE RATING 1 TO 6 PSIG OUTLET PRESSURE	42	99.0
273421	FRM100050/SAV HD ANSI	\$4,038.85	150 PSIG INLET PRESSURE RATING 5.8 TO 22 PSIG OUTLET PRESSURE	42	108.0
274634	FRM 250025 UHD/SAV UHD ANSI	\$3,931.32	285 PSIG INLET PRESSURE RATING 14.5 TO 58 PSIG OUTLET PRESSURE	42	84.0
274638	FRM 250040 UHD/SAV UHD ANSI	\$4,277.40	285 PSIG INLET PRESSURE RATING 14.5 TO 58 PSIG OUTLET PRESSURE	42	93.0
274640	FRM 250050 UHD/SAV UHD ANSI	\$4,765.82	285 PSIG INLET PRESSURE RATING 14.5 TO 58 PSIG OUTLET PRESSURE	42	108.0

MEDIUM PRESSURE REGULATOR FRM-NOC

Section 77

Description

The DUNGS Medium Pressure Controller FRM-NOC is a direct acting pressure regulator without inlet pressure compensation that has adjustable setpoint spring and optional modular safety shutoff valve (SAV).

- Input pressures up to 10 bar (1,000 kPa) (145 Psig)
- Rapid response to changes in flows

- 4-to-6 different seat diameters available for each size
- Regulating cup without inlet pressure balancing
- Internal sensing (Optional: external sensing)
- Easy maintenance
- Flange connection ANSI 150Lbs 1", 1.5", 2" or DN25, DN40, DN50.

Application

For systems that require rapid response to changes in flows (industrial gas burners and gas burning appliances), the FRM-NOC is suitable for gases of gas families 1,2,3 and other neutral gaseous media.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

NOMINAL DIAMETER OF FLANGES:	Connecting flanges PN 25 according to EN 1092-1 or ANSI 150 lbs 1"
NOMINAL DIAMETER OF THREADS:	1.5", 2" (B16.5) DN 25, 40, 50
MAXIMUM INPUT PRESSURE:	Connecting threads according to BSP (ISO 228/1) or NPT (B1.20.1) G 1, 1½, 2"
OUTPUT PRESSURE RANGE:	145 Psig (10 bar)
MINIMUM DIFFERENTIAL PRESSURE (ND)	8" W.C. - 58 Psig (20 mbar to 4,000 mbar)
MINIMUM DIFFERENTIAL PRESSURE (MD)	8" W.C. (20 mbar)
MINIMUM DIFFERENTIAL PRESSURE (HD/UHD)	1.16 Psig (80 mbar)
AMBIENT TEMPERATURE RATING	3.63 Psig (250 mbar) -20°C to +60°C (-4°F to +140°F)

NPT and ANSI versions do not come standard with CE Approvals. CE versions have the same cost but will have extended lead times.

Materials

- Controller housing: Cast Iron GGG 50 (GJS 400-18 on request)
- Diaphragm housing: Aluminum /steel plate (UHD)
- Diaphragms: NBR
- Outdoor installation in corrosive areas might require specific options

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
280236	FRM-NOC 10010 ND NPT	\$779.27	1" NPT	8" TO 40" W.C. OUTLET PRESSURE RANGE	42	11.0
280237	FRM-NOC 10010 MD NPT	\$779.27	1" NPT	1.2 TO 5.8 PSIG OUTLET PRESSURE RANGE STOCKED ITEM	42	11.0
280238	FRM-NOC 10010 HD NPT	\$779.27	1" NPT	4.4 TO 22 PSIG OUTLET PRESSURE RANGE	42	11.0
280239	FRM-NOC 10010 UHD NPT	\$1,137.91	1" NPT	15 TO 60 PSIG OUTLET PRESSURE RANGE	42	19.8
280240	FRM-NOC 10015 ND NPT	\$997.13	1.5 NPT	8" TO 40" W.C. OUTLET PRESSURE RANGE	42	13.2
280241	FRM-NOC 10015 MD NPT	\$997.13	1.5 NPT	1.2 TO 5.8 PSIG OUTLET PRESSURE RANGE	42	13.2
280242	FRM-NOC 10015 HD NPT	\$997.13	1.5" NPT	4.4 TO 22 PSIG OUTLET PRESSURE RANGE	42	13.2
280243	FRM-NOC 10015 UHD NPT	\$1,402.70	1.5" NPT	15 TO 60 PSIG OUTLET PRESSURE RANGE	42	22.0
280244	FRM-NOC 10020 ND NPT	\$1,394.33	2" NPT	8" TO 40" W.C. OUTLET PRESSURE RANGE	42	26.5
280245	FRM-NOC 10020 MD NPT	\$1,394.33	2" NPT	1.2 TO 5.8 PSIG OUTLET PRESSURE RANGE STOCKED ITEM	42	24.3
280246	FRM-NOC 10020 HD NPT	\$1,394.33	2" NPT	4.4 TO 22 PSIG OUTLET PRESSURE RANGE	42	35.3
280247	FRM-NOC 10020 UHD NPT	\$1,600.46	2" NPT	15 TO 60 PSIG OUTLET PRESSURE RANGE	42	19.8

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
280260*	FRM-NOC 100025 ND ANSI	\$1,622.24	1" ANSI 150 LBS FLANGED	8" TO 40" W.C. OUTLET PRESSURE RANGE	42	19.8
280261*	FRM-NOC 100025 MD ANSI	\$1,622.24	1" ANSI 150 LBS FLANGED	1.2 TO 5.8 PSIG OUTLET PRESSURE RANGE STOCKED ITEM	42	19.8
280262*	FRM-NOC 100025 HD ANSI	\$1,622.24	1" ANSI 150 LBS FLANGED	4.4 TO 22 PSIG OUTLET PRESSURE RANGE	42	19.8
280263*	FRM-NOC 100025 UHD ANSI	\$1,841.78	1" ANSI 150 LBS FLANGED	15 TO 60 PSIG OUTLET PRESSURE RANGE	42	28.7
280264*	FRM-NOC 100040 ND ANSI	\$2,034.48	1.5" ANSI 150 LBS FLANGED	8" TO 40" W.C. OUTLET PRESSURE RANGE	42	37.5
280265*	FRM-NOC 100040 MD ANSI	\$2,034.48	1.5" ANSI 150 LBS FLANGED	1.2 TO 5.8 PSIG OUTLET PRESSURE RANGE	42	37.5
280266*	FRM-NOC 100040 HD ANSI	\$2,034.48	1.5" ANSI 150 LBS FLANGED	4.4 TO 22 PSIG OUTLET PRESSURE RANGE	42	35.3
280267*	FRM-NOC 100040 UHD ANSI	\$2,255.71	1.5" ANSI 150 LBS FLANGED	15 TO 60 PSIG OUTLET PRESSURE RANGE	42	46.3
280268*	FRM-NOC 100050 ND ANSI	\$2,227.23	2" ANSI 150 LBS FLANGED	8" TO 40" W.C. OUTLET PRESSURE RANGE	42	44.0
280269*	FRM-NOC 100050 MD ANSI	\$2,227.23	2" ANSI 150 LBS FLANGED	1.2 TO 5.8 PSIG OUTLET PRESSURE RANGE STOCKED ITEM	42	44.0
280270*	FRM-NOC 100050 HD ANSI	\$2,227.23	2" ANSI 150 LBS FLANGED	4.4 TO 22 PSIG OUTLET PRESSURE RANGE	42	42.0
280271*	FRM-NOC 100050 UHD ANSI	\$2,436.71	2" ANSI 150 LBS FLANGED	15 TO 60 PSIG OUTLET PRESSURE RANGE	42	53.0

Description

The Medium Pressure Controller FRM-NOC/SAV is a direct acting pressure regulator without inlet pressure compensation that has adjustable setpoint spring and optional modular safety shutoff valve (SAV).

- Input pressures up to 10 bar (4000" WC) (1,000 kPa) (145 Psig)
- Rapid response to changes in flows

- 4-to-6 different seat diameters available for each size
- Regulating cup without inlet pressure balancing
- Internal sensing (Optional: external sensing)
- Easy maintenance
- Flange connection ANSI 150Lbs 1", 1.5", 2" or PN25 - DN25, DN40, DN50
- AC 10 Accuracy class, SG20 Accuracy for Slam Shut

Application

For systems that require rapid response to changes in flows (industrial gas burners and gas burning appliances), the FRM-NOC is suitable for gases of gas families 1,2,3 and other neutral gaseous media including hydrogen blends up to 20% H₂.

Optional Approvals
N/A



DUNGS Product Reference Material

Specifications

NOMINAL DIAMETER OF FLANGES:	Connecting flanges PN 25 according to EN 1092-1 or ANSI 150 lbs 1"
NOMINAL DIAMETER OF THREADS:	1.5", 2" (B16.5) DN 25, 40, 50
MAXIMUM INPUT PRESSURE:	Connecting threads according to BSP (ISO 228/1) or NPT (B1.20.1) G 1, 1½, 2"
OUTPUT PRESSURE RANGE:	145 Psig (10 bar)
MINIMUM DIFFERENTIAL PRESSURE (ND)	8" W.C. - 40" W.C. (20 mbar to 4,000 mbar)
MINIMUM DIFFERENTIAL PRESSURE (MD)	32" - 160" W.C.
MINIMUM DIFFERENTIAL PRESSURE (HD/UHD)	1.16 Psig (80 mbar) / 3.63 Psig (250 mbar)
AMBIENT TEMPERATURE RATING	3.63 Psig (250 mbar) -20°C to +60°C (-4°F to +140°F)

Materials

- Body: Cast Iron GGG 50
- Diaphragm Housing: Aluminum
- Diaphragms: NBR
- Outdoor installation in corrosive areas might require specific options

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
280224*	FRM-NOC 10010 ND / SAV NPT	\$1,037.35	1" LOW OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	15.4
280225*	FRM-NOC 10010 MD / SAV NPT	\$1,037.35	1" MEDIUM OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	15.4
280226*	FRM-NOC 10010 HD / SAV NPT	\$1,037.35	1" HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	15.4
280227*	FRM-NOC 10010 UHD / SAV NPT	\$1,516.67	1" ULTRA HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	24.2
280228*	FRM-NOC 10015 ND / SAV NPT	\$1,285.38	1.5" LOW OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	27.6
280229*	FRM-NOC 10015 MD / SAV NPT	\$1,285.38	1.5" MEDIUM OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	27.6
280230*	FRM-NOC 10015 HD / SAV NPT	\$1,285.38	1.5" HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	27.6
280231*	FRM-NOC 10015 UHD/SAV NPT	\$1,796.53	1.5" ULTRA HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	26.5
280232*	FRM-NOC 10020 ND / SAV NPT	\$1,701.00	2" LOW OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	30.9

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
280233*	FRM-NOC 10020 MD / SAV NPT	\$1,701.00	2" MEDIUM OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	30.9
280234*	FRM-NOC 10020 HD / SAV NPT	\$1,701.00	2" HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	28.7
280235*	FRM-NOC 10020 UHD / SAV NPT	\$1,952.38	2" ULTRA HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	40.0
280248*	FRM-NOC 100025 ND / SAV ANSI	\$1,977.53	2.5" LOW OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	24.0
280249*	FRM-NOC 100025 MD / SAV ANSI	\$1,977.53	2.5" MEDIUM OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	24.0
280250*	FRM-NOC 100025 HD / SAV ANSI	\$1,977.53	DN 25 ANSI HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	24.0
280251*	FRM-NOC 100025 UHD / SAV ANSI	\$2,245.65	DN 25 ANSI ULTRA HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	33.0
280252*	FRM-NOC 100040 ND / SAV ANSI	\$2,362.99	DN 40 ANSI LOW OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	42.0
280253*	FRM-NOC 100040 MD / SAV ANSI	\$2,362.99	DN 40 ANSI MEDIUM OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	42.0
280254*	FRM-NOC 100040 HD / SAV ANSI	\$2,362.99	DN 40 ANSI HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	37.0
280255*	FRM-NOC 100040 UHD / SAV ANSI	\$2,622.73	DN 40 ANSI ULTRA HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	50.7
280256*	FRM-NOC 100050 ND / SAV ANSI	\$2,589.21	DN 50 ANSI LOW OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	48.5
280257*	FRM-NOC 100050 MD / SAV ANSI	\$2,589.21	DN 50 ANSI MEDIUM OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	48.5
280258*	FRM-NOC 100050 HD / SAV ANSI	\$2,589.21	DN 50 ANSI HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	46.0
280259*	FRM-NOC 100050 UHD/SAV ANSI	\$2,832.20	DN 50 ANSI ULTRA HIGH OUTLET PRESSURE REGULATOR WITH SAFETY SHUT OFF VALVE	42	57.0

SAV SAFETY SHUT OFF VALVE

Section 79

Description

The Dungs SAV (Safety Shut Off Valve) protects downstream fittings or lines against pressures that are too high or too low. When the pre-set trip pressure falls below or exceeds a limit due to a fault, the SAV automatically interrupts the gas flow. Under normal operating conditions the SAV is open.

If the equipment downstream of the regulator, including any pipework, cannot safely operate or contain a pressure equal to the highest supply pressure (inlet to regulator), an overpressure protection device must be installed. The SAV qualifies as an overpressure protection device and is designed to shut down the gas supply in the event of a fault condition.

The SAV complies with the requirements of EN 14382 as safety shutoff valve with standard strength range (IS).

Specific CRN versions available upon request.



[DUNGS Product Reference Material](#)

Specifications

RANGE DEPENDS ON VERSIONS.	
RESPONSE TIME:	< 2 s
LOWER ADJUSTMENT RANGE:	10 mbar up to 3000 mbar (1-300 kPa) /4" WC - 45 PSI
UPPER ADJUSTMENT RANGE:	40 mbar up to 5000 mbar (4-500 kPa) /16" WC -75 PSI
PRESSURE RATING:	285 PSIG for ANSI 150lb versions and 10 bar or 25 bar for NPT versions.
12mm SENSING LINE CONNECTION.	

Main body housing; cast iron GGG 50, Minimum cut-off included and can be removed upon request.
No cost difference. Diaphragms: NBR,

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
287916	SAV 10010 ND NPT	\$872.55	1" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 8"-95" WC UNDERPRESSURE SHUT OFF RANGE 4"-45" WC	42	19.8
287917	SAV 10010 MD NPT	\$872.55	1" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.6 PSI-6 PSI UNDERPRESSURE SHUT OFF RANGE 0.5 PSI-5.8 PS	42	19.8
287918	SAV 25010 UHD NPT	\$959.73	1" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 7 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2 PSI - 45 PSI	42	19.8
287919	SAV 10015 ND NPT	\$1,001.52	1.5" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 8"-95"WC UNDERPRESSURE SHUT OFF RANGE 4"-45" WC	42	35.7
287920	SAV 10015 MD NPT	\$1,001.52	1.5" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.6 PSI - 6 PSI UNDERPRESSURE SHUT OFF RANGE 0.5 PSI-5.8 PS	42	35.7
287921	SAV 25015 UHD NPT	\$1,051.46	1.5" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 7 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2 PSI - 45 PSI	42	35.7
287922	SAV 10020 ND NPT	\$1,460.48	2" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 8"-95"WC UNDERPRESSURE SHUT OFF RANGE 4"-45" WC	42	57.0
287923	SAV 10020 MD NPT	\$1,460.48	2" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.6 PSI - 6 PSI UNDERPRESSURE SHUT OFF RANGE 0.5 PSI-5.8 PSI	42	57.0
287924	SAV 25020 UHD NPT	\$1,531.47	2" NPT SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 7 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2 PSI - 45 PSI	42	57.0
277797	SAV 100025 ND ANSI	\$1,182.77	1" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 18" WC - 3.5 PSI UNDERPRESSURE SHUT OFF RANGE 4"- 46" WC	42	19.8

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
277799	SAV 100025 MD ANSI	\$1,240.88	1" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.6 PSI - 11.6 PSI UNDERPRESSURE SHUT OFF RANGE 0.5 PSI - 5.8 PSI	42	19.8
277800	SAV 100025 HD ANSI	\$1,267.60	1" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 100 PSI-1087 PSI UNDERPRESSURE SHUT OFF RANGE 2.2 PSI - 45 PSI	42	19.8
274641	SAV 250025 UHD ANSI	\$1,730.61	1" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 8 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2 PSI - 15 PSI	42	19.8
277801	SAV 100040 ND ANSI	\$1,374.39	1.5" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 18" WC - 3.5 PSI UNDERPRESSURE SHUT OFF RANGE 4" WC - 1.6 PSI	42	26.5
277802	SAV 100040 MD ANSI	\$1,489.06	1.5 ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.6 PSI - 11.6 PSI UNDERPRESSURE SHUT OFF RANGE 0.6 PSI - 5.8 PSI	42	26.5
277803	SAV 100040 HD ANSI	\$1,460.78	1.5" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 101PSI-1088 PSI OVERPRESSURE SHUT OFF RANGE 101 PSI-1088 PSI	42	26.6
274642	SAV 250040 UHD ANSI	\$1,920.70	1.5" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 8 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2 PSI - 15 PSI	42	33.0
277804	SAV 100050 ND ANSI	\$1,449.79	2" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 18" WC - 3.5 PSI UNDERPRESSURE SHUT OFF RANGE 4" WC - 46" WC	42	30.1
277805	SAV 100050 MD ANSI	\$1,507.93	2" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.6 PSI - 11.6 PSI UNDERPRESSURE SHUT OFF RANGE 0.58 PSI - 5.8 PSI	42	30.1
273993	SAV 250050 UHD ANSI	\$1,998.00	2" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 8 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2 PSI - 15 PSI	42	38.5
287902	SAV 100065 MD ANSI	\$3,300.29	2.5" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.8 PSI - 11.6 PSI UNDERPRESSURE SHUT OFF RANGE 0.5 PSI - 5.8 PSI	42	77.0
287903	SAV 250065 UHD ANSI	\$3,398.79	2.5" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 7 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2.2 PSI - 45 PSI	42	84.6
287905	SAV 100080 MD ANSI	\$3,717.49	3" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 2.8 PSI - 11.6 PSI UNDERPRESSURE SHUT OFF RANGE 0.5 PSI - 5.8 PSI	42	92.5
287906	SAV 250080 UHD ANSI	\$3,827.43	3" ANSI SLAM SHUT VALVE	OVERPRESSURE SHUT OFF RANGE 7 PSI - 75 PSI UNDERPRESSURE SHUT OFF RANGE 2.2 PSI - 45 PSI	42	81.5

PROPORTIONATOR / ZERO GOVERNOR - FRG

Section 80

Description

The DUNGS FRG 7.../6 proportionator/zero governor has an adjustable setpoint spring and nonadjustable counter spring. The DUNGS FRG 7.../6 is recommended for industrial and commercial heating applications. It is suitable for natural gas, propane, butane, air and other inert gases.

Application (Proportionator)

Holds a constant gas/air ratio by varying gas flow to a gas burning piece of equipment in proportion to combustion air flow. Adjustable ratio for excess gas or air operation.

Application (Zero Governor)

Controls fuel by reducing incoming gas pressure to zero or adjustable to slightly above or below atmospheric pressure.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

PROPORTIONATOR:

MAX. OPERATING PRESSURE	7 PSI (500 mbar); 5 PSI (360 mbar) CSA
OPTIMAL INPUT PRESSURE RANGE	2 to 82 in. W.C. (5 to 200 mbar)
OUTPUT PRESSURE RANGE	4 to 60 in. W.C. (10 to 150 mbar)
AMBIENT TEMPERATURE RATING	-40 °F to +150 °F Factory Rating

ZERO GOVERNOR:

MAX. OPERATING PRESSURE	7 PSI (500 mbar); 5 PSI (360 mbar) CSA
OPTIMAL INPUT PRESSURE RANGE	2 to 20 in. W.C. (5 to 50 mbar)
OUTPUT PRESSURE RANGE	-2 to 2 in. W.C. (-5 to 5 mbar)
AMBIENT TEMPERATURE RATING	-40 °F to +150 °F Factory Rating

Aluminum body; Two upstream and downstream taps; air impulse line on top; Refer to selection guide for technical specifics, flow and pressure drop. Optional low fire bypass (part # 225256) for 705/6, 707/6, 710/6, 712/6, 715/6, 720/6. For Factory Installed Spring Changes, See Page 170.1

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
226458	FRG 705/6 1/2" NPT	\$459.25	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	1.3
226459	FRG 707/6 3/4" NPT	\$472.93	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	2.2
226460	FRG 710/6 1" NPT	\$487.63	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	2.7
226461	FRG 712/6 1 1/4" NPT	\$616.72	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	2.7
226462	FRG 715/6 1 1/2" NPT	\$750.03	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	5.5
226463	FRG 720/6 2" NPT	\$996.97	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	REPAIR KIT 229658	45	7.7
226464	FRG 725/6 2 1/2" NPT	\$1,811.54	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	REPAIR KIT 229659	45	16.5
226465	FRG 730/6 3" NPT	\$2,131.58	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	REPAIR KIT 229660	45	22.1

PROPORTIONATOR / ZERO GOVERNOR - FRNG

Section 81

Description

The DUNGS FRNG 5../10 proportionator/zero governor has an adjustable setpoint spring and nonadjustable counter spring. The DUNGS FRNG 5../10 is recommended for industrial and commercial heating applications. It is suitable for natural gas, propane, butane, air and other inert gases.

Application (Proportionator)

Holds a constant gas/air ratio by varying gas flow to a gas burning piece of equipment in proportion to combustion air flow. Adjustable ratio for excess gas or air operation.

Application (Zero Governor)

Controls fuel by reducing incoming gas pressure to zero or adjustable to slightly above or below atmospheric pressure.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

PROPORTIONATOR:

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
OPTIMAL INPUT PRESSURE RANGE	2 to 82 in. W.C. (5 to 200 mbar)
OUTPUT PRESSURE RANGE	0 to 60 in. W.C. (10 to 150 mbar)
AMBIENT TEMPERATURE RATING	+5 °F to +160 °F (-15 °C to +70 °C)

ZERO GOVERNOR:

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
OPTIMAL INPUT PRESSURE RANGE	2 to 20 in. W.C. (5 to 50 mbar)
OUTPUT PRESSURE RANGE	-1.2 to 2 in. W.C. (-3 to 5 mbar)
AMBIENT TEMPERATURE RATING	+5 °F to +160 °F (-15 °C to +70 °C)

Aluminum body; Two upstream and downstream taps; air impulse line on top;

Refer to selection guide for technical specifics, flow and pressure drop.

Optional low fire bypass for 3/8" - 2" (225256).

For Factory Installed Spring Changes, See Page 170.1.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
220967	FRNG 503 3/8" RP	\$442.71	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	0.6
220968	FRNG 505 1/2" RP	\$450.32	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	1.3
220969	FRNG 507 3/4" RP	\$491.67	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	1.3
220970	FRNG 510 1" RP	\$536.34	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	NO REPAIR KIT AVAILABLE	45	2.6
209064	FRNG 515 1 1/2" RP	\$825.12	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	REPAIR KIT 229657	45	5.5
209065	FRNG 520 2" RP	\$1,096.76	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES	REPAIR KIT 229658	45	7.7

PROPORTIONATOR / ZERO GOVERNOR – FLANGED - FRNG

Section 82

Description

The DUNGS Flanged FRNG proportionator/zero governor has an adjustable setpoint spring and nonadjustable counter spring. The DUNGS Flanged FRNG is recommended for industrial and commercial heating applications. It is suitable for natural gas, propane, butane, air and other inert gases.

Application (Proportionator)

Holds a constant gas/air ratio by varying gas flow to a gas burning piece of equipment in proportion to combustion air flow. Adjustable ratio for excess gas or air operation.

Application (Zero Governor)

Controls fuel by reducing incoming gas pressure to zero or adjustable to slightly above or below atmospheric pressure.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

PROPORTIONATOR:

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
OPTIMAL INPUT PRESSURE RANGE	2 to 82 in. W.C. (5 to 200 mbar)
OUTPUT PRESSURE RANGE	0 to 60 in. W.C. (10 to 150 mbar)
AMBIENT TEMPERATURE RATING	-40 °F to +160 °F (-40 °C to +70 °C)

ZERO GOVERNOR:

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
OPTIMAL INPUT PRESSURE RANGE	2 to 20 in. W.C. (5 to 50 mbar)
OUTPUT PRESSURE RANGE	-1.2 to 2 in. W.C. (-3 to 5 mbar)
AMBIENT TEMPERATURE RATING	+5 °F to +160 °F (-15 °C to +70 °C)

Aluminum body; Two upstream taps; air impulse line on top;

Refer to selection guide for technical specifics, flow and pressure drop.

For Factory Installed Spring Changes, See Page [170.1](#).

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
159350	FRNG 5040 DN. 40	\$1,044.93	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES. 1 1/2" NOMINAL PIPE SIZE	45	7.7
209067	FRNG 5050 DN. 50	\$1,139.37	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES. 2" NOMINAL PIPE SIZE	45	11.0
209068	FRNG 5065 DN. 65	\$1,899.34	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES. 2 1/2" NOMINAL PIPE SIZE	45	16.5
209069	FRNG 5080 DN. 80	\$2,234.97	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES. 3" NOMINAL PIPE SIZE	45	22.0
214422	FRNG 5100 DN. 100	\$3,954.70	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES. 4" NOMINAL PIPE SIZE	45	35.3
220758	FRNG 5125 DN. 125	\$8,180.16	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES. 5" NOMINAL PIPE SIZE	45	61.7
224212	FRNG 5150 DN. 150	\$11,845.28	REFER TO SALES BROCHURE FOR SPECIFIC OUTPUT RANGES. 6" NOMINAL PIPE SIZE	45	83.8

SAFETY PRESSURE RELIEF - FRSBV

Section 83

Description

The DUNGS safety pressure relief valve, type FRSBV, is a spring-loaded safety blow-off device (SBV) with an adjustable response pressure. The safety blow-off valve corresponds to DIN 33821.

Application

Safety pressure relief valve for gas burners and gas equipment. Suitable for gases of gas families 1,2,3 and other neutral gaseous media. Free of non-ferrous metals, suitable for gases up to max 0.1 vol.%H₂S, dry.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	up to 1.0 bar (100 kPa)
INLET PRESSURE RANGE	up to 1.0 bar (100 kPa)
NOMINAL DIAMETERS	DN 25
PIPE THREAD PER ISO 7/1	Rp 1
AMBIENT TEMPERATURE RATING	-15 °C to 70 °C (5°F to 158° F)

Aluminum, Steel-housing. NBR – Seals and diaphragms.

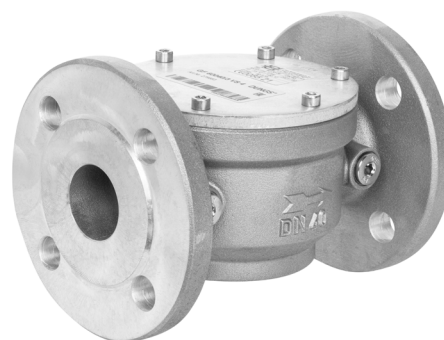
Setting range, response pressure: 20 mbar (2kPa) up to 1000 mbar (100 kPa) depending on the adjustable reference value spring.

Standard spring is the YELLOW spring, range is 70 mbar up to 350 mbar.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
226284	FRSBV 1010	\$836.91		42	2.8

Gas & Air Filters

Product	Model	Section
Gas & Air Filters - Threaded - GF10xx	EU	84
Gas & Air Filters - Threaded - GF50xx	EU	85
Gas & Air Filters - Flanged - GF 6 bar	US	86
Gas & Air Filters - High Pressure - VZF	EU	87
Gas Filters	US	89



Description

The DUNGS gas filter is designed for interior gas lines as per DIN 3386 with high dust storage capacity.

Application

Type GF10XX gas and air filter for protecting downstream fittings. Filter is suitable for natural gas, propane, butane, hydrogen, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	15 PSI (1 bar)
GAS FILTER	50 micron; replaceable
AMBIENT TEMP RATING	+5°F to +176°F (-15°C to +80°C)

Aluminum body; Refer to selection guide for technical specifics, flow and pressure drop.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
297617	GF 1005 Rp 1/2	\$123.58	50 MICRON REPLACEMENT FILTER 301462	65	0.8
297473	GF 1007 Rp 3/4	\$127.41	50 MICRON REPLACEMENT FILTER 301462	65	0.8
297526	GF 1010 Rp1	\$204.03	50 MICRON REPLACEMENT FILTER 301463	65	1.2
297655	GF 1012 Rp 1 1/4	\$213.94	50 MICRON REPLACEMENT FILTER 301464	65	2.2
296690	GF 1015 Rp 1 1/2	\$222.69	50 MICRON REPLACEMENT FILTER 301464	65	2.2
228192	GF 1020 Rp 2	\$233.84	50 MICRON REPLACEMENT FILTER 301465	65	3.2

GAS & AIR FILTERS – THREADED – GF50XX

Section 85

Description

The DUNGS gas filter is designed for interior gas lines as per DIN 3386 with high dust storage capacity.

Application

Type GF50XX gas and air filter for protecting downstream fittings. Filter is suitable for natural gas, propane, butane, hydrogen, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	70 PSI (5 bar)
GAS FILTER	50 micron; replaceable
AMBIENT TEMP RATING	+5°F to +176°F (-15°C to +80°C)

Aluminum body; Refer to selection guide for technical specifics, flow and pressure drop.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
297658	GF 5005 Rp 1/2	\$207.04	50 MICRON REPLACEMENT FILTER 301462	65	0.8
297659	GF 5007 Rp 3/4	\$209.84	50 MICRON REPLACEMENT FILTER 301462	65	0.8
292555	GF 5010 RP1	\$297.71	50 MICRON REPLACEMENT FILTER 301463	65	1.2
297660	GF 5012 Rp 1 1/4	\$360.85	50 MICRON REPLACEMENT FILTER 301464	65	2.2
297661	GF 5015 Rp 1 1/2	\$373.75	50 MICRON REPLACEMENT FILTER 301464	65	2.2
297662	GF 5020 Rp2	\$386.83	50 MICRON REPLACEMENT FILTER 301465	65	3.2

Description

The DUNGS gas filter is designed for interior gas lines as per DIN 3386 with high dust storage capacity. Flange connection as per DIN 2501 Part 1.

Application

Type GF/3 and GF/4 gas and air filter for protecting downstream fittings. Filter suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	87 PSI (6 bar)
MAX PRESSURE DIFFERENCE	4 in W.C. (10 mbar), maximum recommended pressure difference in new condition
GAS FILTER	50 micron; replaceable (Optional 10-micron filter element available as a special request.) - See gas filter accessories
AMBIENT TEMPERATURE RATING	+5 °F to +176 °F (-15 °C to +80 °C)

Housing Aluminum, Seal NBR, Polypropylene fleece filter, Galvanized Steel frame.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
279853	GF 60040/3 50 Micron	\$751.43	DN. 40 1 1/2" NOMINAL PIPE SIZE	REPLACES 222637 FILTER INSERT: 304915	65	6.3
279854	GF 60050/4 50 Micron	\$789.04	DN. 50 2" NOMINAL PIPE SIZE	REPLACES 256408 FILTER INSERT: 304917	65	9.4
279855	GF 60065/4 50 Micron	\$828.47	DN. 65 2 1/2" NOMINAL PIPE SIZE	REPLACES 256409 FILTER INSERT: 304918	65	13.3
279856	GF 60080/4 50 Micron	\$1,098.25	DN. 80 3" NOMINAL PIPE SIZE	REPLACES 256410 FILTER INSERT: 304919	65	18.6
279857	GF 60100/4 50 Micron	\$1,477.13	DN. 100 4" NOMINAL PIPE SIZE	REPLACES 256411 FILTER INSERT: 304920	65	27.8
279858	GF 60125/3 50 Micron	\$4,229.55	DN. 125 5" NOMINAL PIPE SIZE	REPLACES 218162 FILTER INSERT: 304921	65	45.5
279859	GF 60150/3 50 Micron	\$5,581.14	DN. 150 6" NOMINAL PIPE SIZE	REPLACES 218163 FILTER INSERT: 304922	65	57.3

GAS & AIR FILTERS – HIGH PRESSURE – VZF

Section 87

Description

High pressure gas filter is designed for interior gas lines with high dust storage capacity. ISO Flange connection as per EN1092 or ANSI B16.5 150Lbs.

Application

Type VZF gas and air filter for protecting downstream fittings. Filter suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	230 PSI (16 bar)
MAX PRESSURE DIFFERENCE	7 PSI (500 mbar), maximum recommended pressure difference in new condition
GAS FILTER	99.5% filtration of 2-micron particles; replaceable - See gas filter accessories
MAX WORKING TEMPERATURE	+160 °F (+70 °C)
MIN WORKING TEMPERATURE	14 °F (-10 °C)
	-40 °F (-40 °C) versions available upon request

Aluminum body; DN25 (1") up to DN150 (6") DIN PN 16 or ANSI 150Lbs FLANGED; Contact DUNGS for selection guide & technical specifics.

Models are available for Biogas & Landfill gas applications. Contact DUNGS customer service for pricing & availability.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
227153	VZF GAS FILTER DN25	\$1,297.86	DN. 25 PN16_EN1092 1" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229363 / 267001	65	2.0
227155	VZF GAS FILTER DN50	\$2,342.44	DN. 50 PN16_EN1092 2" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229362 / 267000	65	16.5
251528	VZF GAS FILTER DN65	\$3,065.51	DN. 65 PN16_EN1092 2.5" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229361 / 266999	65	30.0
227156	VZF GAS FILTER DN80	\$3,218.79	DN. 80 PN16_EN1092 3" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229361 / 266999	65	26.5
227157	VZF GAS FILTER DN100	\$4,375.97	DN. 100 PN16_EN1092 4" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229360 / 266998	65	41.9
251529	VZF GAS FILTER DN125	\$10,109.29	DN. 125 PN16_EN1092 5" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229359 / 266997	65	90.8
227158	VZF GAS FILTER DN150	\$10,614.76	DN. 150 PN16_EN1092 6" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229359 / 266997	65	92.6
275717	VZF GAS FILTER 1" ANSI	\$1,297.86	1" ANSI 150 LBS_ANSI B16.5 1" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229363 / 267001	65	6.0
267953	VZF GAS FILTER 2" ANSI	\$2,342.44	2" ANSI 150 LBS_ANSI B16.5 2" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229362 / 267000	65	15.5
267991	VZF GAS FILTER 3" ANSI	\$3,218.79	3" ANSI 150 LBS_ANSI B16.5 3" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229361 / 266999	65	26.5
270160	VZF GAS FILTER 4" ANSI	\$4,375.97	4" ANSI 150 LBS_ANSI B16.5 4" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229360 / 266998	65	43.0
275716*	VZF GAS FILTER 6" ANSI	\$10,614.76	6" ANSI 150 LBS_ANSI B16.5 6" NOMINAL PIPE SIZE	REPLACEMENT FILTER INSERT & O RINGS: 229359 / 266997	65	92.6

GAS FILTERS

Section 89

Description
Dungs offers NPT threaded, ANSI flanged, and DN flanged gas filters in sizes from 1/2" NPT to 2" NPT and 1" ANSI to 6" ANSI raised face Class 150 flanges.

Application
Filter is suitable for natural gas, propane, butane, air and other inert gases.

Filters are available in 50 micron or 10 micron.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	87 PSI (6 bar)
AMBIENT TEMPERATURE RATING	-40°F to +158°F (-40°C to +70°C)
Threaded Filters:	1/8" NPT Pressure Ports
Flanged Filters:	1/4" NPT Pressure Ports

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
294348	GAS FILTER 1/2" NPT - 50 Micron	\$139.99	87 PSIG 4 TAP FILTER INSERT: 294563	65	
294349	GAS FILTER 3/4" NPT - 50 Micron	\$159.99	87 PSIG 4 TAP FILTER INSERT: 294563	65	
294350	GAS FILTER 1" NPT - 50 Micron	\$186.63	87 PSIG 4 TAP FILTER INSERT: 294563	65	
294351	GAS FILTER 1 1/4" NPT - 50 Micron	\$194.30	87 PSIG 4 TAP FILTER INSERT: 294564	65	
294352	GAS FILTER 1 1/2" NPT - 50 Micron	\$206.46	87 PSIG 4 TAP FILTER INSERT: 294564	65	
294353	GAS FILTER 2" NPT - 50 Micron	\$216.56	87 PSIG 4 TAP FILTER INSERT: 294565	65	
297532	GAS FILTER 1/2" NPT - 10 Micron	\$153.99	87 PSIG 4 TAP FILTER INSERT: 297538	65	
297533	GAS FILTER 3/4" NPT - 10 Micron	\$175.99	87 PSIG 4 TAP FILTER INSERT: 297538	65	
297534	GAS FILTER 1" NPT - 10 Micron	\$205.29	87 PSIG 4 TAP FILTER INSERT: 297538	65	
297535	GAS FILTER 1 1/4" NPT - 10 Micron	\$213.73	87 PSIG 4 TAP FILTER INSERT: 295762	65	
297536	GAS FILTER 1 1/2" NPT - 10 Micron	\$227.11	87 PSIG 4 TAP FILTER INSERT: 295762	65	
297537	GAS FILTER 2" NPT - 10 Micron	\$238.21	87 PSIG 4 TAP FILTER INSERT: 297539	65	
294354	GAS FILTER 1" ANSI - 50 Micron	\$563.71	87 PSIG 4 TAP FILTER INSERT: 294564	65	
294355	GAS FILTER 1 1/2" ANSI - 50 Micron	\$608.62	87 PSIG 4 TAP FILTER INSERT: 294566	65	
294356	GAS FILTER 2" ANSI - 50 Micron	\$638.69	87 PSIG 4TAP FILTER INSERT: 294566	65	
294357	GAS FILTER 2 1/2" ANSI - 50	\$945.43	87 PSIG 4 TAP FILTER INSERT: 294567	65	

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
294358	GAS FILTER 3" ANSI - 50 Micron	\$965.63	87 PSIG	4 TAP FILTER INSERT: 294567	65	
294359	GAS FILTER 4" ANSI - 50 Micron	\$1,409.32	87 PSIG	4 TAP FILTER INSERT: 294568	65	
294360	GAS FILTER 5" ANSI - 50 Micron	\$3,407.58	87 PSIG	4 TAP FILTER INSERT: 294569	65	
294361	GAS FILTER 6" ANSI - 50 Micron	\$4,543.46	87 PSIG	4 TAP FILTER INSERT: 295769	65	
295767	GAS FILTER 1" ANSI - 10 Micron	\$616.44	87 PSIG	4 TAP FILTER INSERT: 295762	65	
295768	GAS FILTER 1 1/2" ANSI - 10 Micron	\$663.76	87 PSIG	4 TAP FILTER INSERT: 295763	65	
295769	GAS FILTER 2" ANSI - 10 Micron	\$693.85	87 PSIG	4 TAP FILTER INSERT: 295763	65	
295770	GAS FILTER 2 1/2" ANSI - 10 Micron	\$1,015.85	87 PSIG	4 TAP FILTER INSERT: 295764	65	
295771	GAS FILTER 3" ANSI - 10 Micron	\$1,036.09	87 PSIG	4 TAP FILTER INSERT: 295764	65	
295772	GAS FILTER 4" ANSI - 10 Micron	\$1,492.76	87 PSIG	4 TAP FILTER INSERT: 295765	65	
295773	GAS FILTER 5" ANSI - 10 Micron	\$3,540.83	87 PSIG	4 TAP FILTER INSERT: 295766	65	
295774	GAS FILTER 6" ANSI - 10 Micron	\$4,676.70	87 PSIG	4 TAP FILTER INSERT: 295766	65	

Modulating Control Valves & Motors

Product	Model	Section
Butterfly Control Valves - DMK	US/EU	90
Actuator - DMA	US/EU	91



BUTTERFLY CONTROL VALVES - DMK

Section 90

Description

The DUNGS DMK butterfly control valve actuates from 0° to 90° degrees in either direction; it is not a tight shutoff valve. Inlet-side male thread and outlet-side female thread enable a space-saving assembly with direct mounting on most DUNGS shutoff valves.

Application

The DUNGS DMK is recommended for industrial and commercial heating applications for modulating gas or air supply to a piece of gas burning equipment. The DMK butterfly control valve is suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	7 PSI (500 mbar)
MAX. DIFFERENTIAL PRESSURE	1.5 PSI (100 mbar)
TORQUE	Max. 4.4 in-lb (50 N cm)
AMBIENT TEMP RATING	0°F to +160 °F (-15 °C to +70 °C)

Maximum pressure drop of 40" for optimum control required;
Use with DUNGS DMA actuator; Required torque 12 in-lb; Screws directly to the downstream flange of the DMV; Refer to selection guide

for technical specifics, flow and pressure drop; 5 business day lead time for assembly and mounting. NPT threaded product is UL listed.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
228754	DMK 707/6 11 mm Orifice	\$383.94	3/4" NPT MALE INLET CONNECTION	3/4" NPT FEMALE OUTLET CONNECTION	67	1.8
237614	DMK 710/6 15 mm Orifice	\$404.44	1" NPT MALE INLET CONNECTION	1" NPT FEMALE OUTLET CONNECTION	67	2.0
237617	DMK 710/6 21 mm Orifice	\$404.44	1" NPT MALE INLET CONNECTION	1" NPT FEMALE OUTLET CONNECTION	67	
228770	DMK 712/6 19 mm Orifice	\$424.92	1 1/4" NPT MALE INLET CONNECTION	1 1/4" NPT FEMALE OUTLET CONNECTION	67	2.2
228777	DMK 712/6 25 mm Orifice	\$424.92	1 1/4" NPT MALE INLET CONNECTION	1 1/4" NPT FEMALE OUTLET CONNECTION	67	
228779	DMK 715/6 24 mm Orifice	\$465.90	1 1/2" NPT MALE INLET CONNECTION	1 1/2" NPT FEMALE OUTLET CONNECTION	67	2.5
228783	DMK 715/6 28 mm Orifice	\$465.90	1 1/2" NPT MALE INLET CONNECTION	1 1/2" NPT FEMALE OUTLET CONNECTION	67	2.5
228785	DMK 715/6 32 mm Orifice	\$465.90	1 1/2" NPT MALE INLET CONNECTION	1 1/2" NPT FEMALE OUTLET CONNECTION	67	
228787	DMK 720/6 32 mm Orifice	\$530.57	2" NPT MALE INLET CONNECTION	2" NPT FEMALE OUTLET CONNECTION	67	2.5

DUAL ACTUATOR - DMA

Section 91

Description

The DUNGS DMA actuator drives CCW from 0° to 90° via a 4 - 20 mA input signal. The DMA is available in three different fixed speeds: 6, 12, and 30 seconds. The DMA has one independent, field adjustable auxiliary SPDT switch and two field adjustable end of travel switches.

4-20 mA feedback can be used to drive a slave motor (3 actuators maximum) in parallel. Maximum stroke (Y Max; span) is adjustable from 25Y to 90Y, and minimum stroke (Y min; zero) is adjustable from 0Y to 75% of set span.

Application

When mounted on the DUNGS DMK butterfly control valve, the DMA is used to automatically modulate the amount of natural gas, butane, propane and/or air supplied to a gas burning piece of equipment.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

ELECTRICAL RATING	110 - 120 VAC 50-60 Hz, (+10%/-15%)
POWER RATING	Holding: max. 2.0 VA; Operation: max. 5.4 VA
ENCLOSURE RATING	NEMA 1
ELECTRICAL CONNECTION	Screw terminals with 1/2" NPT conduit connection
OPERATING TIME	100% duty cycle
AMBIENT TEMP RATING	-15 °F to +120 °F (-10 °C to 50 °C)
(END OF TRAVEL) SWITCHES (ST)	Two field adjustable switches: min and Max: limit stroke of actuator.
AUXILIARY SWITCH (MV)	One SPDT, field adjustable switch. 1.5 A resistive, 1.5 A FLA, 9 A LRA, 120 Vac

CCW Stroke as viewed from the bottom on increasing input signal.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267251	MTR DMA 6C120	\$900.05	120 VAC 50-60 HZ; 20 VA	68	1.2
267252	MTR DMA 12C120	\$900.05	120 VAC 50-60 HZ; 20 VA	68	1.2
267253	MTR DMA 30C120	\$900.05	120 VAC 50-60 HZ; 20 VA	68	1.2

MPA 41xx Flame Safeguard

Product	Model	Section
MPA 41xx Flame Safeguard UV Scanner & Shutter Assemblies	US/EU	94
MPA 41xx Flame Safeguard	US/EU	95
Accessories & Components MPA 41xx Flame Safeguard	US/EU	96
MPA 41xxPF Flame Safeguard	US/EU	97



MPA 41XX FLAME SAFEGUARD UV SCANNER & SHUTTER ASSEMBLIES

Section 94

Description

The DUNGS UV 4x ultraviolet flame detectors can be used with the MPA 41xx flame safeguard for intermittent operation of single-stage atmospheric or forced draft burners. The UV 4x flame detectors can also be used with the UV 4x-EM 1/1 self-check shutter module assembly for continuous operation applications.

Model Notes

UV 41: Ultraviolet flame detector, ionization output (flame 1 MPA 41xx; 0-33 ft. wiring length) UV 41HE: Ultraviolet flame detector, ionization output, high sensitivity (flame 1 MPA 41xx, 0-33 ft. wiring length) UV 42: Ultraviolet flame detector, switching output (flame 2 MPA 41xx; 34-328 ft. wiring length)

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MODELS	UV 41, UV 41HE, UV 42
ENCLOSURE RATING	IP 54
ELECTRICAL RATINGS	230 Vac/50 - 60 Hz (+10% / -15%)
AMBIENT TEMP RATING	-40 °F to +140 °F (-40 °C to +60 °C) -40 °F to +176 °F (-40 °C to +80 °C) with reduced lifetime of UV tube

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
269926	UV 41 UV Scanner Assembly with UV 4x EM 1/8 adapter	\$552.69	UV 41 FLAME DETECTOR	1/2" NPT CONNECTION, 1/4" NPT COOLING PORT, LENS, 0-33 FT. WIRING LENGTH	31	1.0
269927	UV 41 UV Scanner Assembly with UV 4x EM 1/9 adapter	\$505.30	UV 41 FLAME DETECTOR	1/2" NPT CONNECTION, 1/4" NPT COOLING PORT, 0-33 FT. WIRING LENGTH	31	1.0
273004	UV 41 UV Scanner Assembly with UV 4x EM 1/5 adapter	\$552.69	UV 41 FLAME DETECTOR	3/4" G CONNECTION, 1/8" G COOLING PORT, LENS, 0-33 FT. WIRING LENGTH	31	1.0
273005	UV 41 UV Scanner Assembly with UV 4x EM 1/7 adapter	\$505.30	UV 41 FLAME DETECTOR	3/4" G CONNECTION, 1/8" G COOLING PORT, 0-33 FT. WIRING LENGTH	31	1.0
269442	UV 41HE UV Scanner Assembly with UV 4x EM 1/8 adapter	\$552.69	UV 41HE FLAME DETECTOR	1/2" NPT CONNECTION, 1/4" NPT COOLING PORT, LENS, HIGH SENSITIVITY, 0-33 FT. WIRING LENGTH	31	1.0
269924	UV 41HE UV Scanner Assembly with UV 4x EM 1/9 adapter	\$505.30	UV 41HE FLAME DETECTOR	1/2" NPT CONNECTION, 1/4" NPT COOLING PORT, HIGH SENSITIVITY, 0-33 FT. WIRING LENGTH	31	1.0
271478	UV 41HE UV Scanner Assembly with UV 4x EM 1/5 adapter	\$552.69	UV 41HE FLAME DETECTOR	3/4" G CONNECTION, 1/8" G COOLING PORT, LENS, HIGH SENSITIVITY, 0-33 FT. WIRING LENGTH	31	1.0
271479	UV 41HE UV Scanner Assembly with UV 4x EM 1/7 adapter	\$505.30	UV 41HE FLAME DETECTOR	3/4" G CONNECTION, 1/8" G COOLING PORT, HIGH SENSITIVITY, 0-33 FT. WIRING LENGTH	31	1.0
269928	UV 42 UV Scanner Assembly with UV 4x EM 1/8 adapter	\$552.69	UV 42 FLAME DETECTOR	1/2" NPT CONNECTION, 1/4" NPT COOLING PORT, LENS, 34-328 FT. WIRING LENGTH	31	1.0
269929	UV 42 UV Scanner Assembly with UV 4x EM 1/9 adapter	\$505.30	UV 42 FLAME DETECTOR	1/2" NPT CONNECTION, 1/4" NPT COOLING PORT, 34-328 FT. WIRING LENGTH	31	1.0
271569	UV 42 UV Scanner Assembly with UV 4x EM 1/5 adapter	\$552.69	UV 42 FLAME DETECTOR	3/4" G CONNECTION, 1/8" G COOLING PORT, LENS, 34-328 FT. WIRING LENGTH	31	1.0

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
271570	UV 42 UV Scanner Assembly with UV 4x EM 1/7 adapter	\$505.30	UV 42 FLAME DETECTOR	3/4" G CONNECTION, 1/8" G COOLING PORT, 34-328 FT. WIRING LENGTH	31	1.0

MPA 41XXPF FLAME SAFEGUARD

Section 95

Description

The DUNGS MPA 41xxPF flame safeguard is a microprocessor-controlled automatic gas burner control for intermittent operation of single-stage atmospheric or forced draft burners.

Application

The MPA 41xxPF is best suited for commercial and industrial heat processes requiring a safety rated automatic burner controller. The safety outputs are rated for 2.5 million switching cycles. Additionally, the MPA 41xxPF has a SIL 3 rating for high temperature bypass and flameless combustion applications.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MODELS	MPA 4112, MPA 4122
ENCLOSURE RATING	IP 42, IP 54, IP 65
ELECTRICAL RATINGS	115 Vac/50 - 60 Hz (+10% / -15%) 230 Vac/50 - 60 Hz
AMBIENT TEMP RATING	-40 °F to +158 °F (-40 °C to +70 °C) -4 °F to +140 °F (-20 °C to +60 °C) UL approval

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
301943	MPA 4112 Flame Safeguard	\$979.04	115 VAC 50-60 HZ, IP 54	INCLUDES PROGRAMMING. V2.0	30 1.8
301944	MPA 4112 Flame Safeguard	\$979.04	230 VAC 50-60 HZ, IP 54	INCLUDES PROGRAMMING. V2.0	30 1.8
301945	MPA 4112 Flame Safeguard	\$2,005.46	115 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS AND SELF-CHECK, SHUTTER CONTROL (EM 2/4), INCLUDES PROGRAMMING. V2.0	30 1.8
301946	MPA 4112 Flame Safeguard	\$2,005.46	230 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS AND SELF-CHECK, SHUTTER CONTROL (EM 2/4), INCLUDES PROGRAMMING. V2.0	30 1.8
301947	MPA 4112 Flame Safeguard	\$2,084.39	115 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS, SELF-CHECK SHUTTER CONTROL AND MODULATION (EM 2/6: 4-20 MA, 0-10 VDC, PWM) INCLUDES PROGRAMMING. V2.0	30 1.8
301948	MPA 4112 Flame Safeguard	\$2,084.39	230 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS, SELF-CHECK SHUTTER CONTROL AND MODULATION (EM 2/6: 4-20 MA, 0-10 VDC, PWM) INCLUDES PROGRAMMING. V2.0	30 1.8
302852*	MPA 4114 Flame Safeguard	\$832.67	115 VAC 50-60 HZ, IP 54	INCLUDES PROGRAMMING. V2.0	30 1.8
302851*	MPA 4114 Flame Safeguard	\$832.67	230 VAC 50-60 HZ, IP 54	INCLUDES PROGRAMMING. V2.0	30 1.8
302854*	MPA 4114 Flame Safeguard	\$1,965.72	115 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS AND SELF-CHECK, SHUTTER CONTROL (EM 2/4), INCLUDES PROGRAMMING. V2.0	30 1.8
302853*	MPA 4114 Flame Safeguard	\$1,965.72	230 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS AND SELF-CHECK, SHUTTER CONTROL (EM 2/4), INCLUDES PROGRAMMING. V2.0	30 1.8

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
302861*	MPA 4114 Flame Safeguard	\$2,044.65	115 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS, SELF-CHECK SHUTTER CONTROL AND MODULATION (EM 2/6: 4-20 MA, 0-10 VDC, PWM) INCLUDES PROGRAMMING. V2.0	30	1.8
302860*	MPA 4114 Flame Safeguard	\$2,044.65	230 VAC 50-60 HZ, IP 54	MODBUS/PROFIBUS COMMUNICATIONS, SELF-CHECK SHUTTER CONTROL AND MODULATION (EM 2/6: 4-20 MA, 0-10 VDC, PWM) INCLUDES PROGRAMMING. V2.0	30	1.8
297004*	AM41 v2.0 Remote Display	\$244.70	IP20		30	
298790*	Connecting Cable, AM41	\$111.47	10M		30	
301953	MPA 4122 Flame Safeguard	\$1,879.13	115 VAC 50-60 HZ, IP 65	INCLUDES PROGRAMMING. V2.0	30	4.9
301954	MPA 4122 Flame Safeguard	\$1,879.13	230 VAC 50-60 HZ, IP 65	INCLUDES PROGRAMMING. V2.0	30	4.9
301950	MPA 4122 Flame Safeguard	\$2,905.52	115 VAC 50-60 HZ, IP 65	MODBUS/PROFIBUS COMMUNICATIONS AND SELF-CHECK SHUTTER CONTROL (EM 2/4), INCLUDES PROGRAMMING. V2.0	30	4.9
301949	MPA 4122 Flame Safeguard	\$2,905.52	230 VAC 50-60 HZ, IP 65	MODBUS/PROFIBUS COMMUNICATIONS AND SELF-CHECK SHUTTER CONTROL (EM 2/4) INCLUDES PROGRAMMING. V2.0	30	4.9
301952	MPA 4122 Flame Safeguard	\$2,747.59	115 VAC 50-60 HZ, IP 65	MODBUS/PROFIBUS COMMUNICATIONS, SELF-CHECK SHUTTER CONTROL AND MODULATION (EM 2/6: 4-20 MA, 0-10 VDC, PWM) INCLUDES PROGRAMMING. V2.0	30	4.9
301951	MPA 4122 Flame Safeguard	\$2,747.59	230 VAC 50-60 HZ, IP 65	MODBUS/PROFIBUS COMMUNICATIONS, SELF-CHECK SHUTTER CONTROL AND MODULATION (EM 2/6: 4-20 MA, 0-10 VDC, PWM) INCLUDES PROGRAMMING. V2.0	30	4.9

ACCESSORIES & COMPONENTS MPA 41XX FLAMEGUARD

Section 96

Description

These components can be ordered in addition to the MPA 41xx flame safeguard and UV scanner assemblies.

Application

The DUNGS FLW 41I is required for dual flame rod applications. In addition, an MPA 41xx with self-check shutter control is required for continuous operation dual flame rod applications.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
256692	UV 41 UV Scanner	\$410.55	UV 41 FLAME DETECTOR	31	0.5
260575	UV 41HE UV Scanner	\$410.55	UV 41HE FLAME DETECTOR	31	0.5
258385	UV 42 UV Scanner	\$410.55	UV 42 FLAME DETECTOR	31	1.0
270129	UV 4x-EM 1/1 Shutter Assembly	\$1,894.90	SELF-CHECK SHUTTER MODULE ASSEMBLY	30	0.3
260225	UV 4x EM 1/5 Adapter	\$315.81	FLAME DETECTOR AND SELF-CHECK SHUTTER MODULE ADAPTER, 3/4" G CONNECTION, 1/8" G COOLING PORT, LENS	31	0.3
260223	UV 4x EM 1/7 Adapter	\$189.49	FLAME DETECTOR AND SELF-CHECK SHUTTER MODULE ADAPTER, 3/4" G CONNECTION, 1/8" G COOLING PORT	31	0.4
260831	UV 4x EM 1/8 Adapter	\$284.22	FLAME DETECTOR AND SELF-CHECK SHUTTER MODULE ADAPTER, 1/2" NPT CONNECTION, 1/4" NPT COOLING PORT, LENS	31	0.4
260832	UV 4x EM 1/9 Adapter	\$189.47	FLAME DETECTOR AND SELF-CHECK SHUTTER MODULE ADAPTER, 1/2" NPT CONNECTION, 1/4" NPT COOLING PORT	31	1.1
258396	FLW 41I Flame Rod Module	\$631.63	230 VAC (+10%/-15%) 50-60 HZ, IP 54 DUAL FLAME ROD MODULE, INTERMITTENT OR CONTINUOUS OPERATION	31	0.4
261413*	MPA 41xx Base	\$157.92	WIRING AND MOUNTING BASE, MPA 4111 & MPA 4112	31	1.6
260903*	MPA 41xx WB Base	\$236.88	WIRING AND MOUNTING BASE, MPA 4112 WITH MODULATION (EM 2/6)	31	
259861*	CABLE GLAND SET	\$63.15	CABLE GLAND SET, MPA 4122	31	
270339*	M12-5 Connector, Female	\$23.57	M12-5 FIELD ATTACHABLE CONNECTOR, MALE (MODBUS/PROFIBUS CONNECTION)	19	
273489*	M12-5 Connector, Male	\$23.57	M12-5 FIELD ATTACHABLE CONNECTOR, MALE (MODBUS/PROFIBUS CONNECTION)	19	
273481*	M12-5 Cable, Female	\$68.09	M12-5 CABLE, 1 METER, FEMALE (MODBUS/PROFIBUS CONNECTION)	19	
273509*	M12-5 Cable, Male	\$68.09	M12-5 CABLE, 1 METER, MALE (MODBUS/PROFIBUS CONNECTION)	19	

MPA 41XX PF FLAME SAFEGUARD

Section 97

Description

The DUNGS MPA 41xxPF flame safeguard is a microprocessor-controlled automatic gas burner control for intermittent operation of single-stage atmospheric or forced draft burners..

Application

The MPA 41xxPF is best suited for commercial and industrial heat processes requiring a safety rated automatic burner controller. The safety outputs are rated for 2.5 million switching cycles. Additionally, the MPA 41xxPF has a SIL 3 rating for high temperature bypass and flameless combustion applications.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

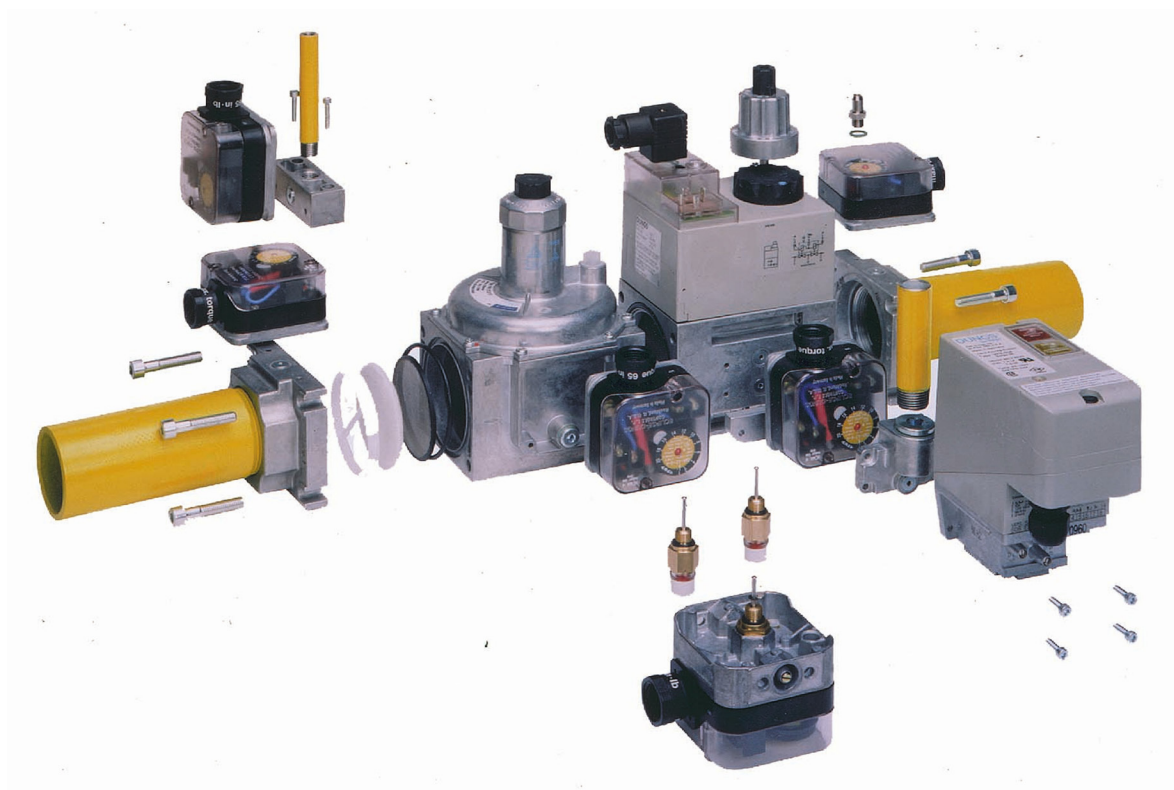
Specifications

MODELS	MPA 4112, MPA 4122
ENCLOSURE RATING	IP 42, IP 54, IP 65
ELECTRICAL RATINGS	115 Vac/50 - 60 Hz (+10% / -15%) 230 Vac/50 - 60 Hz
AMBIENT TEMP RATING	-40 °F to +158 °F (-40 °C to +70 °C) -4 °F to +140 °F (-20 °C to +60 °C) UL approval

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
301955	MPA 4112PF Flame Safeguard 115 Vac (+10%/-15%) 50-60 Hz	\$1,052.72	IP 54 INCLUDES PROGRAMMING	30	
301956	MPA 4112PF Flame Safeguard 230 Vac (+10%/-15%) 50-60 Hz	\$1,052.72	IP 54 INCLUDES PROGRAMMING	30	
301957	MPA 4112PF Flame Safeguard 115 Vac (+10%/-15%) 50-60 Hz,	\$2,156.37	IP 54 MODBUS/PROFIBUS COMMUNICATIONS (EM 2/4) INCLUDES PROGRAMMING	30	
301958	MPA 4112PF Flame Safeguard 230 Vac (+10%/-15%) 50-60 Hz,	\$2,156.37	IP 54 MODBUS/PROFIBUS COMMUNICATIONS (EM 2/4) INCLUDES PROGRAMMING	30	
301959	MPA 4122PF Flame Safeguard 115 Vac (+10%/-15%) 50-60 Hz	\$2,020.55	IP 65 INCLUDES PROGRAMMING	30	
301960	MPA 4122PF Flame Safeguard 230 Vac (+10%/-15%) 50-60 Hz,	\$2,020.55	IP 65 INCLUDES PROGRAMMING	30	
301961	MPA 4122PF Flame Safeguard 115 Vac (+10%/-15%) 50-60 Hz	\$3,124.20	IP 65 MODBUS/PROFIBUS (EM 2/4) INCLUDES PROGRAMMING	30	
301962	MPA 4122PF Flame Safeguard 230 Vac (+10%/-15%) 50-60 Hz	\$3,124.20	IP 65 MODBUS/PROFIBUS COMMUNICATIONS (EM 2/4) INCLUDES PROGRAMMING	30	

Accessories

Product	Model	Section
Accessories Valve Position Indication	US/EU	100
Accessories Modular Valve	US/EU	101
Accessories Flanges	US/EU	102
Accessories FRS/FRI/FRG/FRNG Regulator	US/EU	103
Accessories FRM/SAV	US	104
Accessories Gas & Air Filter	US	105
Accessories Pressure Switch	US/EU	106
Accessories Replacement Coils	US/EU	107
Accessories Replacement Printed Circuit Boards	US/EU	108
Accessories Other Product	US/EU	109



ACCESSORIES VALVE POSITION INDICATION

Section 100

Description

The DUNGS CPI 400 (closed position indicator) visually and electrically indicates when the valve is either open or closed. The CPI 400 is suitable for making and/or breaking a circuit when the valve position changes.

The DUNGS Visual Indicator visually indicates when the valve is either open or closed.

The DUNGS K01/1 electrically indicates when the valve is either open or closed. The K01/1 is suitable for making and/or breaking a circuit when the valve position changes. The CPI 400, Visual Indicator, and K01/1 mount directly to DUNGS automatic shutoff valves.

Code Requirements

Code requirements vary. FM requires visual indication on 1" and larger safety valves. The visual indicator (VI), or the CPI 400 (266968 and 273450) meet this requirement.

European code requirements for position indication vary. The DUNGS K01 (266893) switch meets EN1531 and EN 161 code requirements for closed position signal contact.



[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266949	VISUAL INDICATOR Visual Indicator	\$22.86	UL RECOGNIZED, CSA CERTIFIED AND FM APPROVED	19	0.3
273963	VISUAL INDICATOR Stainless Steel Visual Indicator	\$100.27	UL RECOGNIZED, CSA CERTIFIED AND FM APPROVED	19	0.3
266968*	CPI 400 Interlock Switch with Visual Indication Polycarbonate Housing	\$221.67	SPDT SW, 10A RES / 8A FLA @ 120 VAC; NEMA TYPE 4; UL RECOGNIZED, CSA CERTIFIED AND FM APPROVED	19	0.9
273450*	CPI 400 - 24 VDC Interlock Switch with Visual Indication Polycarbonate Housing	\$309.40	SPDT SW, 10A RES / 8A FLA @ 24 VDC; NEMA TYPE 4; UL RECOGNIZED, CSA CERTIFIED AND FM APPROVED	19	0.9
274058*	CPI 400 w/SS Plunger Interlock Switch with Visual Indication with Stainless Steel Plunger. Polycarbonate Housing	\$338.30	SPDT SW, 10A RES / 8A FLA @ 120 VAC; NEMA TYPE 4; UL RECOGNIZED, CSA CERTIFIED AND FM APPROVED	19	0.9
224417*	PLUNGER CPI 400 Brass Plunger for CPI 400	\$70.00		19	0.02
273965*	PLUNGER CPI 400, Stainless Steel	\$126.15		19	0.02
266893	K01/1 IP 54 G 1/8" thread connection	\$150.29	SPDT, 5A RES / 3A FLA @ 250 VAC IP 54; CE	19	0.5

ACCESSORIES MODULAR VALVE

Section 101

Description

The DUNGS DMV is the main component of the DUNGS Modular Gas System may be comprised of:

- 1 DMV combines two Automatic shutoff Valves in one housing
- 2 Flanges 1/2" to 2" NPT/Rp threaded
- 3 FRI Pressure Regulator with built in 50 micron Filter
- 4 GML manual reset Low Gas Pressure Switch
- 5 GMH manual reset High Gas Pressure Switch
- 6 GAO automatic reset High or Low Gas Pressure Switch
- 7 Visual Indicator
- 8 CPI 400 Closed Position Indicator Switch
- 9 Pilot Line Connector
- 10 VPS 504 Valve Proving System.

Refer to selection guide for technical specifics



[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
219967*	MOUNTING KIT DMV to FRI	\$52.58	MOUNTING KIT FOR FRI 705/707 TO DMV 701/507 BODY; INCLUDES 4 BOLTS AND 1 O-RINGS; PACKAGED WITH FRI	19	0.5
219968*	MOUNTING KIT DMV to FRI	\$59.89	MOUNTING KIT FOR FRI 710/712 TO DMV 702/703, 510/ 512 BODY; INCLUDES 4 MOUNTING BOLTS AND 1 O-RING PACKAGED WITH FRI	19	0.5
224093*	STAND-ALONE MOUNTING KIT FRI	\$59.89	MOUNTING KIT FOR FRI 705/707; INCLUDES 8 MOUNTING BOLTS AND 2 O-RINGS; PACKAGED WITH FRI	19	0.5
224094*	STAND-ALONE MOUNTING KIT FRI	\$59.89	MOUNTING KIT FOR FRI 710/712; INCLUDES 16 MOUNTING BOLTS AND 2 O-RINGS; PACKAGED WITH FRI	19	0.5
253731*	BURKERT CONNECTOR (DMV/MBE/SV) 4 Pins, black	\$73.48	MAY ALLOW FOR THE UL RECOGNIZED DMV VALVE TO REPLACE A UL LISTED VALVE. SUCH A SUBSTITUTION IS TYPICALLY REQUIRED FOR EQUIPMENT UL LISTED TO UL 795	19	0.2
210319*	DIN CONNECTOR FOR DMV 4 Pins, black	\$13.51	USED WITH DMV/MBE MODULAR VALVES; ORDER AND PRICE SEPARATELY	19	0.2
240671*	M20 11 CONDUIT ADAPTOR M 20 to 1/2" NPT	\$14.97	65 IN-LB MAX TORQUE; USED WITH DIN CONNECTOR (210319) ORDER AND PRICE SEPARATELY	19	0.1
220566*	PG 11 CONDUIT ADAPTOR 1/2" NPT	\$14.97	65 IN-LB MAX TORQUE	19	0.1
269434*	ASSEMBLY FEE	\$415.62	SEE GAS TRAIN SECTION PAGE 140.1	19	
225043*	1/2" FLANGE ADAPTER FOR PORT 2 12" NPT	\$80.64	ACCESSES PORT 2 OF THE DMV FOR PILOT USE; G1/8" TAP ON PORT 1	19	0.7
273777*	ADAPTER FOR A2 (PORT 3) For mounting the high pressure switch on the side of the DMV	\$46.51	ALLOWS THE A2 PRESSURE SWITCH TO MONITOR PRESSURE DOWNSTREAM OF VALVE 2. (ON PORT 3) SIDE OF VALVE	19	0.5
225047*	1/4" NPT ADAPTER 1/4" NPT	\$45.36	USED TO MOUNT ACCESSORIES TO VARIOUS PORTS ON THE DMV SYSTEM; ALSO INCLUDES G1/8" ACCESSORY TAP	19	0.7

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
243760*	VENT LINE ADAPTER 1" NPT female connection	\$183.94	PROVIDES A VENT LINE CONNECTION BETWEEN THE TWO AUTOMATIC SHUTOFF VALVES. FIELD INSTALLABLE ACCESSORY	19	2.0
267541*	VENT LINE KIT Vent Line Kit 24V DC	\$2,951.93	FOR DMV 525; 704 & ISO FLANGED DMV'S FOR THE DMV704/525-5125, INCLUDES LGV 507, K01 & 3/4" PIPE. WIRING NOT INCLUDED.	19	8.6
219008*	TEST NIPPLE G 1/8"	\$9.64	MAY BE USED ON ANY G1/8" PRESSURE TAP	19	0.5
267014*	TEST NIPPLE G 1/4"	\$9.64	MAY BE USED ON ANY G1/4" PRESSURE TAP	19	0.5
268347*	CABLE GLAND PG 11 BLACK UL/CE IP66	\$9.70	USED WITH 268348	19	0.5
268348*	LOCK-UP NUT FOR CABLE GLAND PG-11 UL/CE IP 66	\$2.13	USED WITH 268347	19	0.1
225132*	FLANGE ADAPTER SET 2 x 1/4" NPT	\$111.96		19	
205360*	VPS ADAPTER PLATE 1/4" compression fitting	\$135.62	ALLOWS THE VPS (221-073) TO BE USED WITH MVD SERIES AUTOMATIC SHUTOFF VALVES	19	1.0
243801*	VPS MOUNTING KIT	\$46.34	2 FILTERS, 2 O-RINGS, 4 MTG SCREWS	19	1.0
221356*	VPS MOUNTING SCREWS	\$15.33	4 PER PACKAGE	19	0.1
245046*	SCREW; M6 x 25	\$2.01	FITS SV (DLE) 1010 & 1012 BODY; SOLD INDIVIDUALLY	19	0.1
245048*	SCREW; M8 x 35	\$2.01	FITS SV (DLE) 1015 & 1020 BODY; SOLD INDIVIDUALLY	19	0.1
230443*	O-RING; 57.00 x 3.00	\$21.72	FITS DMV 701, SV (DLE) 1010 & 1012 BODY; 2 PER PACK	19	0.1
230444*	O-RING; 75.00 x 3.50	\$21.72	FITS DMV 702/703, SV (DLE) 1015 & 1020 BODY; 2 PER PACK	19	0.1
231574*	O-RING; DMV 704/525	\$23.68	FITS DMV 704/525; 2 PER PACK HEXAGON SEAL	19	0.1
247547*	DMV 525 FILTER/SIEVE	\$41.20	FITS DMV 525	19	
231595*	DMV DN 65 FILTER/SIEVE	\$47.10	FITS DMV 5065	19	
231596*	DMV DN 80 FILTER/SIEVE	\$47.10	FITS DMV 5080	19	
231597*	DMV DN 100 FILTER/SIEVE	\$47.10	FITS DMV 5100	19	
231598*	DMV DN 125 FILTER/SIEVE	\$47.10	FITS DMV 5125	19	
232440*	PRE-MOUNT FILTER - DMV 507/701	\$211.58	PRE-MOUNT GAS FILTER FOR DMV507/701	19	2.0
226342*	PRE-MOUNT FILTER - DMV 512/520/702/703	\$254.94	PRE-MOUNT GAS FILTER FOR DMV512/520/702/703	19	3.0
295449*	BOLT/SCREW REPLACEMENT SET For Flanged VB	\$63.00		19	
295450*	BOLT/SCREW REPLACEMENT SET For VB 50 AND VB2L	\$48.46		19	

ACCESSORIES FLANGES

Section 102

Description

Flanges for the DUNGS dual modular valve system and FRI regulators 1/8" BSP tap on every flange.

Must be ordered and priced individually.


[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
222371*	1/2" NPT FLANGE	\$45.78	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
222368*	3/4" NPT FLANGE	\$45.78	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
221999*	1" NPT FLANGE	\$45.78	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
231718*	1 1/4" NPT FLANGE	\$45.78	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
244021*	1 1/2" NPT FLANGE	\$45.78	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
222369*	1" NPT FLANGE	\$45.78	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
222370*	1 1/4" NPT FLANGE	\$45.78	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
222003*	1 1/2" NPT FLANGE	\$45.78	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
221997*	2" NPT FLANGE	\$45.78	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
232407*	2" NPT FLANGE	\$66.30	FOR DMV 525 704/6X4 BODY	19	1.0
217471*	Rp 3/8" FLANGE	\$50.24	FOR DMV 503/11	19	0.5
222341*	Rp 1/2" FLANGE	\$50.24	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
222432*	Rp 3/4" FLANGE	\$50.24	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
222001*	Rp 1" FLANGE	\$50.24	FOR DMV 701/507 BODY & FRI 705/707 BODY	19	0.5
222343*	Rp 1" FLANGE	\$50.24	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
222344*	Rp 1 1/4" FLANGE	\$50.24	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
221884*	Rp 1 1/2" FLANGE	\$50.24	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
221926*	Rp 2" FLANGE	\$50.24	FOR DMV 702/703/512/520 BODY & FRI 710/712 BODY	19	0.8
215384*	Rp 2" FLANGE	\$72.88	FOR DMV 525 704/6X4 BODY	19	1.0
242650*	1/2" NPT FLANGE KIT	\$54.32	FOR SV 1005/1007 SMALL BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.0
242651*	3/4" NPT FLANGE KIT	\$54.32	FOR SV 1005/1007 SMALL BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.0
242653*	1/2" NPT FLANGE KIT	\$54.32	FOR SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	
242654*	3/4" NPT FLANGE KIT	\$54.32	FOR SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
242655*	1" NPT FLANGE KIT	\$57.04	FOR SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
242656*	1 1/4" NPT FLANGE KIT	\$57.04	FOR SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
245563*	1 1/2" NPT FLANGE KIT	\$57.04	FOR SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
242657*	1" NPT FLANGE KIT	\$61.47	FOR SV 1015/1020 LARGE BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS 1 1/4" NPT	19	2.0

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
242658*	1 1/4" NPT FLANGE KIT	\$61.47	FOR SV 1015/1020 LARGE BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	2.0
242659*	1 1/2" NPT FLANGE KIT	\$61.47	FOR SV 1015/1020 LARGE BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	2.0
242660*	2" NPT FLANGE KIT	\$61.47	FOR SV 1015/1020 LARGE BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	2.0
242220*	Rp 1/2" FLANGE KIT	\$65.73	FOR SV 505/507 AND SV 1005/1007 SMALL BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.0
242221*	Rp 3/4" FLANGE KIT	\$65.73	FOR SV 505/507 AND SV 1005/1007 SMALL BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.0
242223*	Rp 1/2" FLANGE KIT	\$65.73	FOR SV 505/507 AND SV 1005/1007 SMALL BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
242224*	Rp 3/4" FLANGE KIT	\$65.73	FOR SV 510/515 AND SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
242225*	Rp 1" FLANGE KIT	\$65.73	FOR SV 510/515 AND SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
242226*	Rp 1 1/4" FLANGE KIT	\$65.73	FOR SV 510/515 AND SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
243817*	Rp 1 1/2" FLANGE KIT	\$65.73	FOR SV 510/515 AND SV 1010/1012 MEDIUM BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	1.5
242229*	Rp 1 1/2" FLANGE KIT	\$70.79	FOR SV 520 AND SV1015/1020 LARGE BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	2.0
242230*	Rp 2" FLANGE KIT	\$70.79	FOR SV 520 AND SV1015/1020 LARGE BODY; INCLUDES FLANGE, O-RING & MOUNTING SCREWS	19	2.0
227137*	DN. 40 WELD NECK FLANGE (1 1/2" pipe size)	\$58.00	RAISED FACE REQUIRES FOUR [4] M16X55 STUD KITS (135930) & ONE [1] DN. 40 SEAL (267463) PER CONNECTION.	19	4.1
227138*	DN. 50 WELD NECK FLANGE (2" pipe size)	\$71.72	RAISED FACE REQUIRES FOUR [4] M16X55 STUD KITS (135930) & ONE [1] DN. 40 SEAL (267463) PER CONNECTION.	19	5.5
227139*	DN. 65 WELD NECK FLANGE (2 1/2" pipe size)	\$80.57	RAISED FACE REQUIRES FOUR [4] M16X65 STUD KITS (135930) & ONE [1] DN. 65 SEAL (267465) PER CONNECTION	19	6.4
227140*	DN. 80 WELD NECK FLANGE (3" pipe size)	\$101.28	RAISED FACE REQUIRES EIGHT [8] M16X65 STUD KITS (135930) & ONE [1] DN. 80 SEAL (267466) PER CONNECTION	19	8.6
227141*	DN. 100 WELD NECK FLANGE (4" pipe size)	\$107.52	RAISED FACE REQUIRES EIGHT [8] M16X65 STUD KITS (135930) & ONE [1] DN. 100 SEAL (267467) PER CONNECTION	19	9.9
227142*	DN. 125 WELD NECK FLANGE (5" pipe size)	\$158.13	RAISED FACE REQUIRES EIGHT [8] M16X75 STUD KITS (148830) & ONE [1] DN. 125 SEAL (267468) PER CONNECTION	19	13.5
227143*	DN. 150 WELD NECK FLANGE (6" pipe size)	\$236.37	RAISED FACE REQUIRES EIGHT [8] M20X80 STUD KITS (135950) & ONE [1] DN. 150 SEAL (267469) PER CONNECTION	19	16.6
227144*	DN. 200 WELD NECK FLANGE (8" pipe size)	\$391.67	RAISED FACE REQUIRES TWELVE [12] M20X90 STUD KITS (135960) & ONE [1] DN. 200 SEAL 267470) PER CONNECTION	19	21.7
243690*	DN. 65 WELD NECK to NPT (2 1/2" pipe size) to 2 1/2" NPT threaded connection	\$372.91	RAISED FACE WELD NECK TO NPT / WELD REQUIRES FOUR [4] M16X65 STUD KITS (135930) & ONE [1] DN. 65 SEAL (267465) PER CONNECTION.	19	6.8

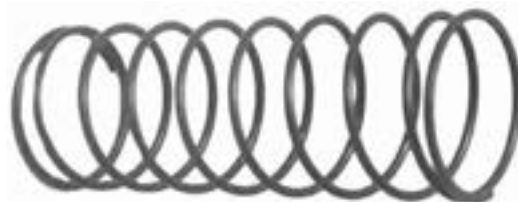
Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
243219*	DN. 80 WELD NECK to NPT (3" pipe size) to 3" NPT threaded connection	\$446.69	RAISED FACE WELD NECK TO NPT / WELD REQUIRES EIGHT [8] M16X65 STUD KITS (135930) & ONE [1] DN. 80 SEAL (267466) PER CONNECTION.	19	7.9
267463*	DN. 40 SEAL (1 1/2" pipe size)	\$13.15	1 PIECE	19	
267464*	DN. 50 SEAL (2" pipe size)	\$14.07	1 PIECE	19	
267465*	DN. 65 SEAL (2 1/2" pipe size)	\$16.41	1 PIECE	19	
267466*	DN. 80 SEAL (3" pipe size)	\$26.20	1 PIECE	19	
267467*	DN. 100 SEAL (4" pipe size)	\$28.21	1 PIECE	19	0.4
267468*	DN. 125 SEAL (5" pipe size)	\$35.97	1 PIECE	19	0.5
267469*	DN. 150 SEAL (6" pipe size)	\$44.62	1 PIECE	19	0.7
267470*	DN. 200 SEAL (8" pipe size)	\$62.53	1 PIECE	19	1.0
267535*	SEAL DN. 50 FULL FACE PN16 2 mm Thick BAU	\$15.51		19	0.3
267471*	SEAL DN. 65 FULL FACE PN 16 2 mm Thick BAU	\$18.09		19	0.3
267472*	SEAL DN. 80 FULL FACE PN 16 2 mm Thick BAU	\$28.87		19	0.4
267473*	SEAL DN. 100 FULL FACE PN 16 2 mm Thick BAU	\$31.05		19	0.5
267651*	SEAL DN. 125 FULL FACE PN 16 2 mm Thick BAU	\$39.62		19	0.5
135930*	M16x65 STUD KIT Fits DN. 65 - DN. 100	\$24.62	INCLUDES ONE THREADED STUD, TWO [2] WASHERS & TWO [2] NUTS.	19	0.4
148830*	M16x75 STUD KIT Fits DN. 125	\$26.47	INCLUDES ONE THREADED STUD, TWO [2] WASHERS & TWO [2] NUTS.	19	0.5
135950*	M20x80 STUD KIT Fits DN. 150	\$28.78	INCLUDES ONE THREADED STUD, TWO [2] WASHERS & TWO [2] NUTS.	19	0.6
135960*	M20x90 STUD KIT Fits DN. 200	\$42.16	INCLUDES ONE THREADED STUD, TWO [2] WASHERS & TWO [2] NUTS.	19	0.9
260732*	M16x50 STUD KIT For Z014 butterfly valve	\$29.88	ZINC PLATED – 1 STUD, 1 NUT, 1 SERRATED WASHER DN40-DN125	19	
260733*	M20x55 STUD KIT For Z014 butterfly valve	\$41.62	ZINC PLATED – 1 STUD, 1 NUT, 1 SERRATED WASHER DN150	19	
298647*	STUD M8X25 for MBE Zinc Plated Socket Head	\$10.39	FOR USE WITH 1" AND 1 1/4" FLANGES REQUIRES 4 PER FLANGE	19	
289415*	STUD M8X30 for MBE Zinc Plated Socket Head	\$10.39	FOR USE WITH 1 1/2" AND 1 2" FLANGES REQUIRES 4 PER FLANGE	19	
244439*	FLANGE NPT 1/2 STRAIGHT W/ O-RING & SCREWS	\$44.29	FITS MBC 65	19	0.2

ACCESSORIES FRS/FRI/FRG/FRNG REGULATOR

Section 103

Description

Accessories and replacement parts for DUNGS gas pressure regulators.



DUNGS Product Reference Material

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
225256*	FRG LOWFIRE BYPASS	\$117.61	ADJUSTABLE LOW FIRE BYPASS THAT FIELD MOUNTS TO EITHER SIDE OF THE 3/8" TO 2" FRG/FRNG		19	0.6
231944*	FRG/FRNG AIR IMPULSE LINE	\$31.83	1/4 G TO 1/4" NPT AIR IMPULSE LINE ADAPTER FOR FRG/FRI 705, 707, 710		19	0.2
231945*	FRG/FRNG AIR IMPULSE LINE	\$33.86	1/2 G TO 1/2" NPT AIR IMPULSE LINE ADAPTER FOR FRG/FRI 712, 715, 720, 725, 730		19	0.2
229817*	SPRING #1, BROWN	\$48.34	1" TO 3.6" W.C. 2.5 TO 9 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229818*	SPRING #2, WHITE	\$48.34	2" TO 5" W.C. 5 TO 13 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229820*	SPRING #3, ORANGE	\$48.34	2" TO 8" W.C. 5 TO 20 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229821*	SPRING #4, BLUE (STANDARD)	\$48.34	4" TO 12" W.C. 10 TO 30 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229822*	SPRING #5, RED	\$48.34	10" TO 22" W.C. 25 TO 55 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229823*	SPRING #6, YELLOW	\$48.34	12" TO 28" W.C. 30 TO 70 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229824*	SPRING #7, BLACK	\$48.34	24" TO 40" W.C. 60 TO 110 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229825*	SPRING #8, PINK	\$55.43	40" TO 60" W.C. 100 TO 150 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229826*	SPRING #9, GRAY	\$108.22	56" TO 80" W.C. 140 TO 200 MBAR	FRI 705/707; FRS 705/503/505	19	0.5
229833*	SPRING #1, BROWN	\$48.34	1" TO 3.6" W.C. 2.5 TO 9 MBAR	FRS 707/507	19	0.5
229834*	SPRING #2, WHITE	\$48.34	2" TO 5" W.C. 5 TO 13 MBAR	FRS 707/507	19	0.5
229835*	SPRING #3, ORANGE	\$48.34	2.8" TO 8" W.C. 5 TO 20 MBAR	FRS 707/507	19	0.5
229836*	SPRING #4, BLUE (STANDARD)	\$48.34	4" TO 12" W.C. 10 TO 30 MBAR	FRS 707/507	19	0.5
229837*	SPRING #5, RED	\$48.34	10" TO 22" W.C. 25 TO 55 MBAR	FRS 707/507	19	0.5
229838*	SPRING #6, YELLOW	\$48.34	12" TO 28" W.C. 30 TO 70 MBAR	FRS 707/507	19	0.5
229839*	SPRING #7, BLACK	\$48.34	24" TO 40" W.C. 60 TO 110 MBAR	FRS 707/507	19	0.5
229840*	SPRING #8, PINK	\$55.43	40" TO 60" W.C. 100 TO 150 MBAR	FRS 707/507	19	0.5
229841*	SPRING #9, GRAY	\$108.22	56" TO 80" W.C. 140 TO 200 MBAR	FRS 707/507	19	0.5
229842*	SPRING #1, BROWN	\$48.34	1" TO 3.6" W.C. 2.5 TO 9 MBAR	FRI 710/712; FRS 710/510	19	0.5
229843*	SPRING #2, WHITE	\$48.34	2" TO 5" W.C. 5 TO 13 MBAR	FRI 710/712; FRS 710/510	19	0.5

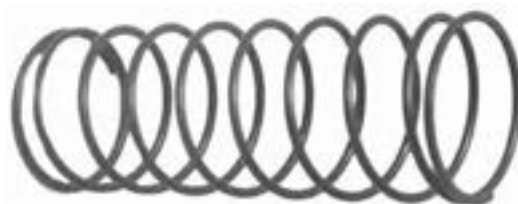
Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
229844*	SPRING #3, ORANGE	\$48.34	2.8" TO 8" W.C. 5 TO 20 MBAR	FRI 710/712; FRS 710/510	19	0.5
229845*	SPRING #4, BLUE (STANDARD)	\$48.34	4" TO 12" W.C. 10 TO 30 MBAR	FRI 710/712; FRS 710/510	19	0.5
229846*	SPRING #5, RED	\$48.34	10" TO 22" W.C. 25 TO 55 MBAR	FRI 710/712; FRS 710/510	19	0.5
229847*	SPRING #6, YELLOW	\$48.34	12" TO 28" W.C. 30 TO 70 MBAR	FRI 710/712; FRS 710/510	19	0.5
229848*	SPRING #7, BLACK	\$48.34	24" TO 40" W.C. 60 TO 110 MBAR	FRI 710/712; FRS 710/510	19	0.5
229849*	SPRING #8, PINK	\$55.43	40" TO 60" W.C. 100 TO 150 MBAR	FRI 710/712; FRS 710/510	19	0.5
229850*	SPRING #9, GRAY	\$108.22	56" TO 80" W.C. 140 TO 200 MBAR	FRI 710/712; FRS 710/510	19	0.5
229851*	SPRING #1, BROWN	\$48.34	1" TO 3.6" W.C. 2.5 TO 9 MBAR	FRS 712/715/515/5040	19	0.5
229852*	SPRING #2, WHITE	\$48.34	2" TO 5" W.C. 5 TO 13 MBAR	FRS 712/715/515/5040	19	0.5
229853*	SPRING #3, ORANGE	\$48.34	2.8" TO 8" W.C. 5 TO 20 MBAR	FRS 712/715/515/5040	19	0.5
229854*	SPRING #4, BLUE (STANDARD)	\$48.34	4" TO 12" W.C. 10 TO 30 MBAR	FRS 712/715/515/5040	19	0.5
229869*	SPRING #5, RED	\$48.34	10" TO 22" W.C. 25 TO 55 MBAR	FRS 712/715/515/5040	19	0.5
229870*	SPRING #6, YELLOW	\$48.34	12" TO 28" W.C. 30 TO 70 MBAR	FRS 712/715/515/5040	19	0.5
229871*	SPRING #7, BLACK	\$48.34	24" TO 40" W.C. 60 TO 110 MBAR	FRS 712/715/515/5040	19	0.5
229872*	SPRING #8, PINK	\$90.88	40" TO 60" W.C. 100 TO 150 MBAR	FRS 712/715/515/5040	19	0.5
229873*	SPRING #9, GRAY	\$175.06	56" TO 80" W.C. 140 TO 200 MBAR	FRS 712/715/515/5040	19	0.5
229874*	SPRING #1, BROWN	\$90.88	1" TO 3.6" W.C. 2.5 TO 9 MBAR	FRS 720/520/5050	19	0.5
229875*	SPRING #2, WHITE	\$90.88	2" TO 5" W.C. 5 TO 13 MBAR	FRS 720/520/5050	19	0.5
229876*	SPRING #3, ORANGE	\$90.88	2.8" TO 8" W.C. 5 TO 20 MBAR	FRS 720/520/5050	19	0.5
229877*	SPRING #4, BLUE (STANDARD)	\$90.88	4" TO 12" W.C. 10 TO 30 MBAR	FRS 720/520/5050	19	0.5
229878*	SPRING #5, RED	\$90.88	10" TO 22" W.C. 25 TO 55 MBAR	FRS 720/520/5050	19	0.5
229879*	SPRING #6, YELLOW	\$90.88	12" TO 28" W.C. 30 TO 70 MBAR	FRS 720/520/5050	19	0.5
229880*	SPRING #7, BLACK	\$90.88	24" TO 40" W.C. 60 TO 110 MBAR	FRS 720/520/5050	19	0.5
229881*	SPRING #8, PINK	\$90.88	40" TO 60" W.C. 100 TO 150 MBAR	FRS 720/520/5050	19	0.5
229882*	SPRING #9, GRAY	\$175.06	56" TO 80" W.C. 140 TO 200 MBAR	FRS 720/520/5050	19	0.5
229883*	SPRING #1, BROWN	\$121.27	1" TO 3.6" W.C. 2.5 TO 9 MBAR	FRS 725/730/525/5065/5080	19	0.5
229884*	SPRING #2, WHITE	\$121.27	2" TO 5" W.C. 5 TO 13 MBAR	FRS 725/730/525/5065/5080	19	0.5
229885*	SPRING #3, ORANGE	\$121.27	2.8" TO 8" W.C. 5 TO 20 MBAR	FRS 725/730/525/5065/5080	19	0.5
229886*	SPRING #4, BLUE (STANDARD)	\$121.27	4" TO 12" W.C. 10 TO 30 MBAR	FRS 725/730/525/5065/5080	19	0.5
229887*	SPRING #5, RED	\$121.27	10" TO 22" W.C. 25 TO 55 MBAR	FRS 725/730/525/5065/5080	19	0.5
229888*	SPRING #6, YELLOW	\$121.27	12" TO 28" W.C. 30 TO 70 MBAR	FRS 725/730/525/5065/5080	19	0.5
229889*	SPRING #7, BLACK	\$121.27	24" TO 40" W.C. 60 TO 110 MBAR	FRS 725/730/525/5065/5080	19	0.5
229890*	SPRING #8, PINK	\$121.27	40" TO 60" W.C. 100 TO 150 MBAR	FRS 725/730/525/5065/5080	19	0.5

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
229891*	SPRING #9, GRAY	\$246.99	56" TO 80" W.C. 140 TO 200 MBAR FRS 725/730/525/5065/5080	19	0.5
229892*	SPRING #1, BROWN	\$121.27	1" TO 3.6" W.C. 2.5 TO 9 MBAR FRS 5100	19	0.5
229893*	SPRING #2, WHITE	\$121.27	2" TO 5" W.C. 5 TO 13 MBAR FRS 5100	19	0.5
229894*	SPRING #3, ORANGE	\$137.17	2.8" TO 8" W.C. 5 TO 20 MBAR FRS 5100	19	0.5
229895*	SPRING #4, BLUE (STANDARD)	\$137.17	4" TO 12" W.C. 10 TO 30 MBAR FRS 5100	19	0.5
229896*	SPRING #5, RED	\$137.17	10" TO 22" W.C. 25 TO 55 MBAR FRS 5100	19	0.5
229897*	SPRING #6, YELLOW	\$169.85	12" TO 28" W.C. 30 TO 70 MBAR FRS 5100	19	0.5
229898*	SPRING #7, BLACK	\$246.99	24" TO 40" W.C. 60 TO 110 MBAR FRS 5100	19	0.5
229899*	SPRING #8, PINK	\$246.99	40" TO 60" W.C. 100 TO 150 MBAR FRS 5100	19	0.5
229900*	SPRING #9, GRAY	\$246.99	56" TO 80" W.C. 140 TO 200 MBAR FRS 5100	19	0.5
229901*	SPRING #1, BROWN	\$246.99	1" TO 3.6" W.C. 2.5 TO 9 MBAR FRS 5125	19	0.5
229902*	SPRING #2, WHITE	\$246.99	2" TO 5" W.C. 5 TO 13 MBAR FRS 5125	19	0.5
229903*	SPRING #3, ORANGE	\$246.99	2.8" TO 8" W.C. 5 TO 20 MBAR FRS 5125	19	0.5
229904*	SPRING #4, BLUE (STANDARD)	\$246.99	4" TO 12" W.C. 10 TO 30 MBAR FRS 5125	19	0.5
229905*	SPRING #5, RED	\$246.99	10" TO 22" W.C. 25 TO 55 MBAR FRS 5125	19	0.5
229906*	SPRING #6, YELLOW	\$246.99	12" TO 28" W.C. 30 TO 70 MBAR FRS 5125	19	0.5
229907*	SPRING #7, BLACK	\$246.99	24" TO 40" W.C. 60 TO 110 MBAR FRS 5125	19	0.5
229908*	SPRING #8, PINK	\$334.62	40" TO 60" W.C. 100 TO 150 MBAR FRS 5125	19	0.5
243416*	SPRING #9, GRAY	\$965.40	56" TO 80" W.C. 140 TO 200 MBAR FRS 5125	19	0.5
229909*	SPRING #1, BROWN	\$246.99	1" TO 3.6" W.C. 2.5 TO 9 MBAR FRS 5150	19	0.5
229910*	SPRING #2, WHITE	\$471.46	2" TO 5" W.C. 5 TO 13 MBAR FRS 5150	19	0.5
229911*	SPRING #3, ORANGE	\$471.46	2.8" TO 8" W.C. 5 TO 20 MBAR FRS 5150	19	0.5
229912*	SPRING #4, BLUE (STANDARD)	\$471.46	4" TO 12" W.C. 10 TO 30 MBAR FRS 5150	19	0.5
229913*	SPRING #5, RED	\$471.46	10" TO 22" W.C. 25 TO 55 MBAR FRS 5150	19	0.5
229914*	SPRING #6, YELLOW	\$471.46	12" TO 28" W.C. 30 TO 70 MBAR FRS 5150	19	0.5
229915*	SPRING #7, BLACK	\$471.46	24" TO 40" W.C. 60 TO 110 MBAR FRS 5150	19	0.5
229916*	SPRING #8, PINK	\$658.70	40" TO 60" W.C. 100 TO 150 MBAR FRS 5150	19	0.5
243417*	SPRING #9, GRAY	\$1,360.59	56" TO 80" W.C. 140 TO 200 MBAR FRS 5150	19	0.5
068924*	FRS 5040 REPAIR KIT	\$436.15	FITS FRS 5040/215/515/715 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.	19	1.2
068932*	FRS 5050 REPAIR KIT	\$484.57	FITS FRS 5050/220/520/720 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.	19	2.2
068940*	FRS 5065 REPAIR KIT	\$739.09	FITS FRS 5065/225/525/725 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.	19	3.0
091868*	FRS 5080 REPAIR KIT	\$1,065.42	FITS FRS 5080/230/730 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.	19	3.0
091876*	FRS 5100 REPAIR KIT	\$1,450.48	FITS FRS 5100 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.	19	5.3
069005*	FRS 5125 REPAIR KIT	\$2,161.82	FITS FRS 5125 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.	19	8.0

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
069013*	FRS 5150 REPAIR KIT	\$3,079.88	FITS FRS 5150 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.		19	13.0
229658*	FRG/FRNG 5050 REPAIR KIT	\$482.38	FITS FRG 520/720 AND FRNG 5050 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.		19	2.2
229659*	FRG/FRNG 5065 REPAIR KIT	\$813.38	FITS FRG/FRNG 725/5065 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.		19	4.0
229660*	FRG/FRNG 5080 REPAIR KIT	\$1,172.04	FITS FRG/FRNG 730/5080 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.		19	4.0
229661*	FRNG 5100 REPAIR KIT	\$1,595.89	FITS FRNG 5100 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.		19	6.6
229662*	FRNG 5125 REPAIR KIT	\$2,387.63	FITS FRNG 5125 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.		19	11.0
229663*	FRNG5125 REPAIR KIT	\$3,315.32	FITS FRNG 5150 BODY; INCLUDES ALL INTERNAL HARDWARE TO REBUILD THE CONTROL.		19	15.9
230440*	FRI REPLACEMENT FILTER/STRAINER 23 mesh strainer 50 micron filter	\$42.16	FITS FRI 705 AND 707 BODY	FITS DMV 701	19	0.1
230441*	FRI REPLACEMENT FILTER/STRAINER 23 mesh strainer 50 micron filter	\$42.16	FITS FRI 710 AND 712 BODY	FITS DMV 702 703	19	0.1

Description

Accessories and replacement parts for DUNGS FRM Regulators and SAV.



[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
270341*	FRM REPLACEMENT SPRING-SILVER ERS.Set Spring FRM ø5,5 silver	\$142.05	FOR ND: 30-40 MBAR SETPOINT FOR MD: 90-110 MBAR SETPOINT	19	
270345*	FRM REPLACEMENT SPRING-GREEN ERS.Set Spring FRM ø6,5 green	\$151.51	FOR ND: 40-55 MBAR SETPOINT FOR MD: 110-170 MBAR SETPOINT	19	
270346*	FRM REPLACEMENT SPRING-YELLOW ERS.Set Spring FRM ø7,0 yellow	\$160.97	FOR ND: 55-80 MBAR SETPOINT FOR MD: 170-240 MBAR SETPOINT	19	
270347*	FRM REPLACEMENT SPRING-BLUE ERS.Set Spring FRM ø8,0 blue	\$170.47	FOR ND: 80-100 MBAR SETPOINT FOR MD: 240-330 MBAR SETPOINT	19	
270348*	FRM REPLACEMENT SPRING-BLACK ERS.Set Spring FRM ø9,0 black	\$178.04	FOR MD: 330-420 MBAR SETPOINT FOR HD: 400-580 MBAR SETPOINT	19	
270349*	FRM REPLACEMENT SPRING-PURPLE ERS.Set Spring FRM ø10,0 purple	\$178.04	FOR HD: 560-850 MBAR SETPOINT	19	
270350*	FRM REPLACEMENT SPRING-ORANGE ERS.Set Spring FRM ø11,0 orange	\$181.82	FOR HD: 800-1200 MBAR SETPOINT FOR UHD: 1000-1600 MBAR SETPOINT	19	
270352*	FRM REPLACEMENT SPRING-PINK ERS.Set Spring FRM ø12,0 pink	\$185.61	FOR HD: 1100-1500 MBAR SETPOINT	19	
271113*	FRM REPLACEMENT SPRING-WHITE ERS.Set Spring FRM ø13,0 white	\$185.61	FOR UHD: 1500-2500 MBAR SETPOINT	19	
271132*	FRM REPLACEMENT SPRING-RED ERS.Set Spring FRM ø14,0 red	\$255.68	FOR UHD: 1900-3300 MBAR SET POINT	19	
270353*	SAV UNDERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdsu ø1,2 white	\$66.30	FOR ND: 10-32 MBAR SETPOINT	19	
270355*	SAV UNDERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdsu ø1,5 yellow	\$66.30	FOR ND: 24-40 MBAR SETPOINT	19	
270356*	SAV UNDERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdsu ø2,0 blue	\$66.30	FOR ND: 30-115 MBAR SETPOINT FOR UHD: 1000-1600 MBAR SETPOINT	19	
270357*	SAV UNDERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdsu ø2,3 black	\$66.30	FOR MD: 50-250 MBAR SETPOINT	19	
270358*	SAV UNDERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdsu ø2,5 purple	\$66.30	FOR MD: 80-400 MBAR SETPOINT FOR HD & UHD: 150-500 MBAR SEPOINT	19	
270359*	SAV UNDERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdsu ø2,8 orange	\$85.22	FOR HD & UHD: 300-1000 MBAR SETPOINT	19	
270360*	SAV UNDERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdsu ø3,0 silver	\$85.22	FOR HD & UHD: 800-1400 MBAR SETPOINT	19	
270361*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø2,2 silver	\$66.30	FOR ND: 40-130 MBAR SETPOINT	19	
270366*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø2,5 green	\$66.30	FOR ND: 60-190 MBAR SETPOINT FOR MD: 180-290 MBAR SETPOINT	19	
270367*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø2,7 red	\$66.30	FOR ND: 90-240 MBAR SETPOINT FOR MD: 230-370 MBAR SETPOINT	19	

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
270368*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø3,2 yellow	\$66.30	FOR MD: 300-500 MBAR SETPOINT	19	
270369*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø3,5 blue	\$66.30	FOR MD: 400-800 MBAR SETPOINT FOR HD: 500-1000 MBAR SETPOINT	19	
270370*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø3,7 blue	\$85.22	FOR HD: 700-1300 MBAR SETPOINT	19	
270371*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø4,0 purple	\$66.30	FOR HD: 1000-1800 MBAR SETPOINT	19	
270372*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø4,5 orange	\$85.22	FOR HD & UHD: 1300-2500 MBAR SETPOINT	19	
270373*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø4,8 pink	\$85.22	FOR HD & UHD: 1800-3500 MBAR SETPOINT	19	
271115*	SAV OVERPRESSURE REPLACEMENT ERS.Set Spring SAV Wdso ø5,0 white	\$66.30	FOR UHD: 2500-5000 MBAR SETPOINT	19	
271094*	REPL. KIT FRM 100025 MD	\$1,003.79		19	
271095*	REPL. KIT FRM XXX025 HD/UHD	\$1,032.18		19	
271096*	REPL. KIT FRM 100040 ND	\$1,496.21		19	
271097*	REPL. KIT FRM 100040 MD	\$1,051.12		19	
271098*	REPL. KIT FRM XXX040 HD/UHD	\$1,079.54		19	
271099*	REPL. KIT FRM 100050 ND	\$1,534.08		19	
271100*	REPL. KIT FRM 100050 MD	\$1,107.94		19	
271101*	REPL. KIT FRM XXX050 HD/UHD	\$1,136.35		19	

ACCESSORIES GAS & AIR FILTER

Section 105

Description

Accessories and replacement parts for DUNGS gas filters.


[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
222687*	GF 505/507 REPLACEMENT FILTER 50 micron	\$86.95	FITS GF 505/507 BODY	19	0.1
222688*	GF 510/515 REPLACEMENT FILTER 50 Micron	\$94.03	FITS GF 510/515 FILTER BODY	19	0.1
222689*	GF 520 REPLACEMENT FILTER 50 Micron	\$106.98	FITS GF 520 FILTER BODY	19	0.1
301464*	RP 1/2" AND 3/4" REPLACEMENT	\$94.03	FITS GF 1005, GF 5005, GF 1007, AND GF 5007 INCLUDES FILTER REPLACEMENT AND ONE O-RING	19	
301462*	GF 1" Filter Insert	\$94.03	RP 1" REPLACEMENT FILTER FITS GF 1010 AND GF 5010 INCLUDES FILTER REPLACEMENT AND ONE O-RING	19	
301463*	GF 1 1/4" - 1 1/2" FILTER INSERT Rp 1 1/4" - 1 1/2" Replacement Filter	\$94.03	FITS GF 1012, GF 1015, GF 5012, GF 5015 INCLUDES FILTER REPLACEMENT AND ONE O-RING	19	
301465*	GF 2" FILTER INSERT Rp 2" Replacement Filter	\$106.98	FITS GF 1020 AND GF 5020 INCLUDES FILTER REPLACEMENT AND ONE O-RING	19	
304915*	GF 40040/3 REPLACEMENT FILTER 50 Micron (replaces 222691*)	\$225.41	FITS GF 40040/3 AND GF 60040/3 FILTER BODIES	19	0.2
222692*	GF 40050/3 REPLACEMENT FILTER 50 Micron	\$236.70	FITS GF 40050/3 AND GF 60050/3 FILTER BODIES NOT FOR GF 40050/4	19	0.2
304917*	GF 40050/4 REPLACEMENT FILTER 50 Micron (replaces 257124*)	\$243.23	FITS GF 40050/4 FILTER BODY	19	0.2
304918*	GF 40065/3 & /4 REPLACEMENT 50 Micron (replaces 222693*)	\$248.57	FITS GF 40065/3 AND GF 60065/3 FILTER BODIES	19	0.2
304919*	GF 40080/3 & /4 REPLACEMENT 50 Micron (replaces 222694*)	\$329.49	FITS GF 40080/3 AND GF 40080/3 FILTER BODIES	19	0.2
304920*	GF 40100/3 & /4 REPLACEMENT 50 Micron (replaces 222695*)	\$443.16	FITS GF 40080/3 AND GF 40080/3 FILTER BODIES FITS GF 40100/4 AND GF 60100/4 FILTER BODIES	19	0.2
304921*	GF 40125/3 REPLACEMENT FILTER 50 Micron (replaces 222696*)	\$803.59	FITS GF 40125 AND GF 60125 FILTER BODIES	19	0.5
304922*	GF 40150/3 REPLACEMENT FILTER 50 Micron (replaces 222697*)	\$1,004.60	FITS GF 40150 AND GF 60150 FILTER BODIES	19	0.7
304923*	GF 40200/3 FILTER INSERT DN 200 (replaces 222698*)	\$1,728.48	FITS GF 40200 AND GF 60200 FILTER BODIES	19	2.1
294563*	FILTER INSERT & O-RING NPT 50 Micron	\$16.47	1/2-3/4-1"NPT FILTER	19	
294564*	FILTER INSERT & O-RING NPT/ANSI 50 Micron	\$25.49	1.25/1.5NPT FILTER (ALSO FITS 1" ANSI FILTER)	19	

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
294566*	FILTER INSERT & O-RING ANSI 50 Micron	\$33.95	1"1/2-2"ANSI FILTER	19	
294565*	FILTER INSERT & O-RING ANSI 50 Micron	\$27.73	2" NPT FILTER	19	
294567*	FILTER INSERT & O-RING ANSI 50 Micron	\$66.18	2"1/2-3"ANSI FILTER	19	
294568*	FILTER INSERT & O-RING ANSI 50 Micron	\$87.76	4"ANSI FILTER	19	
294569*	FILTER INSERT & O-RING ANSI 50 Micron	\$441.72	5"/6" ANSI FILTER	19	
297538*	FILTER INSERT & O-RING NPT 10 Micron	\$32.85	FOR 0.5" - 0.75" - 1" NPT FILTER	19	
295762*	FILTER INSERT & O-RING ANSI/NPT 10 Micron	\$32.85	1" ANSI 1 1/4" - 1 1/2" NPT	19	
295763*	FILTER INSERT & O-RING ANSI 10 Micron	\$44.20	1 1/2" AND 2" ANSI FILTER	19	
297539*	FILTER INSERT & O-RING NPT 10 Micron	\$44.20	FOR 2" NPT FILTER	19	
295764*	FILTER INSERT & O-RING ANSI 10 Micron	\$91.69	FOR 2.5" 3" ANSI FILTER	19	
295765*	FILTER INSERT & O-RING ANSI 10 Micron	\$126.30	FOR 4" ANSI FILTER	19	
295766*	FILTER INSERT & O-RING ANSI 10 Micron	\$530.05	FOR 5" -6" ANSI FILTER	19	
238653*	VF-FILTER MEDIA REPLACEMENT 50 micron	\$87.71	FITS VF PRE-MOUNT FILTER (232440)	19	0.1
226997*	VF-FILTER MEDIA REPLACEMENT 50 micron	\$107.11	FITS VF PRE-MOUNT FILTER (226342)	19	0.1
229363*	VZF REPLACEMENT FILTER INSERT Standard replacement filter	\$324.68	FITS VZF DN. 25 FILTER (227153), 99.5% FILTRATION OF 2 MICRON PARTICLES REQUIRES O-RING SET (267001)	19	0.2
229362*	VZF REPLACEMENT FILTER INSERT Standard replacement filter	\$503.04	FITS VZF DN. 40 FILTER (227154) AND DN. 50 FILTER (227155), 99.5% FILTRATION OF 2 MICRON PARTICLES REQUIRES O-RING SET (267000)	19	0.8
229361*	VZF REPLACEMENT FILTER INSERT Standard replacement filter	\$691.27	FITS VZF DN. 65 FILTER (251528) OR DN. 80 FILTER (227156), 99.5% FILTRATION OF 2 MICRON PARTICLES REQUIRES O-RING SET (266999)	19	2.0
229360*	VZF REPLACEMENT FILTER INSERT Standard replacement filter	\$962.74	FITS VZF DN. 100 FILTER (227157), 99.5% FILTRATION OF 2 MICRON PARTICLES REQUIRES O-RING SET (266998)	19	2.2
229359*	VZF REPLACEMENT FILTER INSERT Standard replacement filter	\$1,347.06	FITS VZF DN. 125 (251529) AND DN. 150 FILTER (227158), 99.5% FILTRATION OF 2 MICRON PARTICLES REQUIRES O-RING SET (266997)	19	4.1
267001*	VZF REPLACEMENT O-RING SET Standard replacement set of 2 O-Rings	\$56.37	SFITS VZF DN. 25 FILTER (227153)	19	0.1
266999*	VZF REPLACEMENT O-RING SET Standard replacement set of 2 O-Rings	\$71.50	FITS VZF DN. 65 (251528) OR DN. 80 FILTER (227156)	19	0.1

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267000*	VZF REPLACEMENT O-RING SET Standard replacement set of 2 O-Rings	\$64.86	FITS VZF DN. 40 FILTER (227154) OR DN. 50 FILTER (227155)	19	0.1
266998*	VZF REPLACEMENT O-RING SET Standard replacement set of 2 O-Rings	\$78.66	FITS VZF DN. 100 FILTER (TBD)	19	0.1
266997*	VZF REPLACEMENT O-RING SET Standard replacement set of 2 O-Rings	\$105.10	FITS VZF DN. 150 FILTER (227158) FITS VZF DN. 125 FILTER (251529)	19	0.1

ACCESSORIES PRESSURE SWITCHES

Section 106

Description

Accessories and replacement parts for DUNGS gas and air switches.


[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
226188*	A2 PRESSURE SWITCH MOUNTING KIT For A2 Gas Pressure Switches (GAO/GMH/GML)	\$9.28	CONTAINS 2 SCREWS AND 1 O-RING	19	0.1
223280*	A2 PRESSURE SWITCH MOUNTING KIT For A2 Gas Pressure Switches (GW/NB/UB)	\$9.28	CONTAINS 2 SCREWS AND 1 O-RING	19	0.02
210318*	DIN CONNECTOR FOR A2/A4/A5/A6 4 Pins, gray	\$13.51	ALSO USED ON MBE PROOF OF CLOSURE ACTUATORS THAT NOT NOT REQUIRED TO BE UL LISTED/CSA APPROVED.	19	0.2
240837*	CPI 400 COVER	\$23.68	NEMA TYPE 4 INCLUDES SCREWS	19	0.1
267181*	COVER FOR PRESSURE SWITCH Cover for manual reset pressure switch GMH/GML A2/A4	\$23.68	NEMA TYPE 4 INCLUDES SCREWS	19	0.1
267031*	SCREW, SWITCH COVER	\$1.38	SINGLE SCREW	19	
267182*	COVER FOR PRESSURE SWITCH Cover for automatic reset pressure switch GAO A2/A4	\$23.68	NEMA TYPE 4 INCLUDES SCREWS	19	0.1
231420*	NEON LIGHT 120 VAC Orange and Green Light	\$19.67	REPLACEMENT LIGHT FOR CPI 400	19	0.1
248183*	NEON LIGHT 24 VAC/VDC Red and Green Light	\$47.08	REPLACEMENT LIGHT FOR CPI 400	19	0.1
244156*	NEON LIGHT 120 VAC Orange Light	\$17.87	REPLACEMENT LIGHT FOR GAO, GMH, GML	19	0.1
248239*	NEON LIGHT 230 V Green Light	\$29.31	REPLACEMENT LIGHT FOR CPI 400	19	0.1
231773*	NEON LIGHT 220 VAC Yellow Light	\$21.64	REPLACEMENT LIGHT FOR GW, UB, NB, GGW ALSO FOR GMH-GML-GAO	19	0.1
244157*	NEON LIGHT VDC / 24 VAC Yellow LED, No Terminal Connector	\$14.16	REPLACEMENT LIGHT FOR GAO, GML, GMH	19	0.1
231774*	NEON LIGHT 24 VAC/DC Yellow LED light with connector terminal and screw	\$23.86	REPLACEMENT LIGHT FOR AA AND LGW AIR SWITCH	19	0.1
231772*	NEON LIGHT 24 VAC/DC Orange LED light with connector terminal and screw	\$19.67	REPLACEMENT LIGHT FOR AA AND LGW AIR SWITCH	19	0.1
230279*	G 1/4 THREAD TO BARB ADAPTER 90 DEG	\$13.98		19	0.1

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
213910*	SIDE-BY-SIDE MOUNT KIT	\$11.05	ALLOWS HIGH/LOW SWITCHES TO BE MOUNTED SIDE BY SIDE WHILE USING ONE PRESSURE SOURCE	19	0.6
258247*	AIR DUCT MOUNT KIT	\$28.27	INCLUDES RUBBER HOSE AND ACCESSORIES TO MOUNT PRESSURE SENSING PORTS TO DUCTING. (KLIMA SET)	19	0.6
270012*	METAL PRESSURE SWITCH BRACKET	\$22.28	FITS AA-A2; AA	19	0.6
230301*	PLASTIC PRESSURE SWITCH BRACKET	\$18.60	FITS AA-A2; AA	19	0.6
219659*	PLUG FOR GW/GAO	\$36.74	3 PIN PLUS GROUND MALE CONNECTOR USED WITH 210318 (DIN CONNECTOR FOR PRESSURE SWITCHES); AUTOMATIC RESET	19	0.2
227644*	PLUG FOR UB/NB/GMH/GML	\$55.00	3 PIN PLUS GROUND MALE CONNECTOR USED WITH 210318 (DIN CONNECTOR FOR PRESSURE SWITCHES); MANUAL RESET	19	0.2

ACCESSORIES REPLACEMENT COILS

Section 107

Description

Replacement Coils.



[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
230983*	MAG TYPE 100 120 Vac; NEMA 12	\$369.69	FITS: MVD 505/6; MVDLE 205/6	19	1.1
230986*	MAG TYPE 200 120 Vac; NEMA 12	\$478.89	FITS: MVD 507/6; MVD 510/6; MVDLE 207/6; 210/6	19	3.1
230989*	MAG TYPE 300 120 Vac; NEMA 12	\$514.67	FITS: MVD 512/6; 515/6; MVDLE 212/6; 215/6; 220/6	19	6.6
230991*	MAG TYPE 400 120 Vac; NEMA 12	\$1,062.33	FITS: MVD 520/6; MVDLE 225/6	19	14.1
230992*	MAG TYPE 500 120 Vac; NEMA 12	\$1,381.41	FITS: MVD 525/6; MVDLE 230/6	19	18.2
230993*	MAG TYPE 550 120 Vac; NEMA 12	\$1,910.81	FITS: MVD 530/6	19	32.5
240336*	MAG TYPE 300 120 Vac; NEMA 4	\$868.79	FITS: MVD 512/6; 515/6; MVDLE 212/6; 215/6; 220/6	19	6.6
240340*	MAG TYPE 400 120 Vac; NEMA 4	\$1,368.45	FITS: MVD 520/6; MVDLE 225/6	19	14.1
240342*	MAG TYPE 500 120 Vac; NEMA 4	\$1,636.37	FITS: MVD 525/6; MVDLE 230/6	19	18.2
214206*	MAG TYPE 100 230 Vac; IP 54	\$369.69	FITS: MVD 503/5; MVD 505/5; MVDLE 503/5; LGV 507/5	19	1.1
214207*	MAG TYPE 200 230 Vac; IP 54	\$478.89	FITS: MVD 507/5; MVD 510/5; MVDLE 507/5	19	3.1
214208*	MAG TYPE 300 230 Vac; IP 54	\$533.03	FITS: MVD 515/5; MVDLE 515/5	19	6.6
214209*	MAG TYPE 400 230 Vac; IP 54	\$736.79	FITS: MVD 520/5; MVDLE 520/5	19	14.1
214210*	MAG TYPE 500 230 Vac; IP 54	\$1,510.97	FITS: MVD 525/5	19	18.2
240310*	MAG TYPE 100 24 Vac; NEMA 12	\$355.58	FITS: MVD 505/6; MVDLE 205/6	19	1.1
240311*	MAG TYPE 200 24 Vac; NEMA 12	\$460.41	FITS: MVD 507/6; MVD 510/6; MVDLE 207/6; 210/6	19	3.1
246502*	MAG TYPE 20 120 Vac; NEMA 4x	\$622.30	FITS: SV 1005/6X4; SV 1007/6X4; SV-DLE 1005/6X4; SV-DLE 1007/6X4	19	1.6

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
246503*	MAG TYPE 30 120 Vac; NEMA 4x	\$693.94	FITS: SV 1010/6X4; SV 1012/6X4; SV-DLE 1010/6X4; SV-DLE 1012/6X4	19	4.1
246504*	MAG TYPE 40 120 Vac; NEMA 4x	\$768.97	FITS: SV 1015/6X4; SV 1020/6X4; SV-DLE 1015/6X4; SV-DLE 1020/6X4	19	7.4
232401*	MAG TYPE 1111 120 Vac; NEMA 12	\$943.55	FITS: DMV 701/6X2; DMV-DLE 701/6X2; DMV-ZRD(LE) 701/6X2	19	1.8
232402*	MAG TYPE 1211 120 Vac; NEMA 12	\$1,115.28	FITS: DMV 702; DMV-DLE 702; DMV-ZRD(LE) 702/6X2	19	3.8
232403*	MAG TYPE 1212 120 Vac; NEMA 12	\$1,258.24	FITS: DMV 703/6X2; DMV-DLE 703/6X2; DMV-ZRD(LE) 703/6X2	19	5.8
238829*	MAG TYPE 1111 24 Vdc; NEMA 12	\$943.55	FITS: DMV 701/6X2; DMV-DLE 701/6X2	19	3.8
238826*	MAG TYPE 1211 24 Vdc; NEMA 12	\$1,115.28	FITS: DMV 702/6X2; DMV-DLE 702/6X2	19	3.8
238823*	MAG TYPE 1212 24 Vdc; NEMA 12	\$1,258.24	FITS: DMV 703/6X2; DMV-DLE 703/6X2	19	5.7
238554*	MAG TYPE 1111 24 Vac; NEMA 12	\$943.55	FITS: DMV 701/6X2; DMV-DLE 701/6X2	19	1.8
238825*	MAG TYPE 1211 24 Vac; NEMA 12	\$1,115.28	FITS: DMV 702/6X2; DMV-DLE 702/6X2	19	3.8
238822*	MAG TYPE 1212 24 Vac; NEMA 12	\$1,258.24	FITS: DMV 703/6X2; DMV-DLE 703/6X2	19	5.7
246515*	MAG TYPE 151 120 Vac; NEMA 4x	\$617.67	FITS: DMV 702/6X4; DMV-DLE 702/6X4; PRICE IS FOR ONE COIL ONLY. TO REPLACE BOTH COILS MUST ORDER 2 PIECES	19	1.5
246516*	MAG TYPE 152 120 Vac; NEMA 4x	\$686.61	FITS: DMV 703/6X4; DMV-DLE 703/6X4; PRICE IS FOR ONE COIL ONLY. TO REPLACE BOTH COILS MUST ORDER 2 PIECES	19	2.6
246517*	MAG TYPE 201 120 Vac; NEMA 4x	\$835.60	FITS: DMV 704/6X4; DMV-DLE 704/6X4; PRICE IS FOR ONE COIL ONLY. TO REPLACE BOTH COILS MUST ORDER 2 PIECES	19	5.1
225003*	MAG TYPE 1111 24 Vdc; IP 54	\$931.00	FITS: DMV 507/11; DMV-DLE 507/11	19	1.8
225028*	MAG TYPE 1211 24 Vdc; IP 54	\$1,115.28	FITS: DMV 512/11; DMV-DLE 512/11	19	3.8
225051*	MAG TYPE 1212 24 Vdc; IP 54	\$1,258.24	FITS: DMV 520/11; DMV-DLE 520/11 DMV 5040; DMV-DLE 5040; DMV 5050; DMV-DLE 5050	19	5.7
225001*	MAG TYPE 1111 110 Vac; IP 54	\$943.55	FITS: DMV 507/11; DMV-DLE 507/11	19	1.8
225005*	MAG TYPE 1211 110 Vac; IP 54	\$1,115.28	FITS: DMV 512/11; DMV-DLE 512/11	19	3.8
225049*	MAG TYPE 1212 110 Vac; IP 54	\$1,258.24	FITS: DMV 520/11; DMV-DLE 520/11 DMV 5040; DMV-DLE 5040; DMV 5050; DMV-DLE 5050	19	5.7
225000*	MAG TYPE 1111 230 Vac; IP 54	\$943.55	FITS: DMV 507/11; DMV-DLE 507/11	19	1.8
225004*	MAG TYPE 1211 230 Vac; IP 54	\$1,115.28	FITS: DMV 512/11; DMV-DLE 512/11	19	3.8
225048*	MAG TYPE 1212 230 Vac; IP 54	\$1,258.24	FITS: DMV520/11; DMV-DLE 520/11 DMV 5040; DMV-DLE 5040; DMV 5050; DMV-DLE 5050	19	5.7
225168*	MAG TYPE 1411 110 Vac; IP 54	\$1,580.77	FITS: DMV 525; DMV-DLE 525; DMV 5065; DMV-DLE 5065	19	10.5

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
225217*	MAG TYPE 1511 110 Vac; IP 54	\$3,032.28	FITS: DMV 5080; DMV-DLE 5080	19	17.2
225222*	MAG TYPE 1611 110 Vac; IP 54	\$4,045.82	FITS: DMV 5100; DMV-DLE 5100	19	22.1
225226*	MAG TYPE 1711 110 Vac; IP 54	\$6,196.57	FITS: DMV 5125; DMV-DLE 5125	19	36.6
225167*	MAG TYPE 1411 230 Vac; IP 54	\$1,580.77	FITS: DMV 525; DMV-DLE 525; DMV 5065; DMV-DLE 5065	19	10.5
225171*	MAG TYPE 1511 230 Vac; IP 54	\$3,032.28	FITS: DMV 5080; DMV-DLE 5080	19	17.2
225220*	MAG TYPE 1611 230 Vac; IP 54	\$3,860.52	FITS: DMV 5100; DMV-DLE 5100	19	22.1
225225*	MAG TYPE 1711 230 Vac; IP 54	\$6,196.57	FITS: DMV 5125; DMV-DLE 5125	19	36.6
225170*	MAG TYPE 1411 24 Vdc; IP 54	\$1,580.77	FITS: DMV 525; DMV-DLE 525; DMV 5065; DMV-DLE 5065	19	10.5
225219*	MAG TYPE 1511 24 Vdc; IP 54	\$3,032.28	FITS: DMV 5080; DMV-DLE 5080	19	22.1
225224*	MAG TYPE 1611 24 Vdc; IP 54	\$4,045.82	FITS: DMV 5100; DMV-DLE 5100	19	22.1
225228*	MAG TYPE 1711 24 Vdc; IP 54	\$6,196.57	FITS: DMV 5125; DMV-DLE 5125	19	36.6
251680*	MAG TYPE 1150 120 Vac; NEMA 12	\$947.19	FITS: DMV ZRD/LE 701/507 VALVE 2 COIL 2	19	
251681*	MAG TYPE 1250 120 Vac; NEMA 12	\$970.64	FITS: DMV ZRD/LE 702/512 VALVE 2 COIL 2	19	
251682*	MAG TYPE 1350 120 Vac; NEMA 12	\$936.48	FITS: DMV ZRD/LE 703/520 VALVE 2 COIL 2	19	
256633*	COIL MAG TYPE 1411/2P 24 V	\$1,983.84	FITS: DMV 5065 ECO	19	
255478*	COIL MAG TYPE 1411/2P 120 V	\$1,983.84	FITS: DMV 5065 ECO	19	
255477*	COIL MAG TYPE 1411/2P 230 V	\$1,983.84	FITS: DMV 5065 ECO	19	
256630*	COIL MAG TYPE 1411/2P 120 V	\$1,218.66	FITS: DMV-D 5065 ECO	19	
256629*	COIL MAG TYPE 1411/2P 230 V	\$1,218.66	FITS: DMV-D 5065 ECO	19	
256632*	COIL MAG TYPE 1411/2P 120 V	\$2,023.21	FITS: DMV-DLE 5065 ECO	19	
256631*	COIL MAG TYPE 1411/2P 230 V	\$2,023.21	FITS: DMV-DLE 5065 ECO	19	
248503*	COIL MAG TYPE 1511/2P 24 V	\$2,762.75	FITS: DMV-(D) 5080 ECO	19	
253713*	COIL MAG TYPE 1511/2P 120 V	\$2,762.75	FITS: DMV-(D) 5080 ECO	19	
247869*	COIL MAG TYPE 1511/2P 230 V	\$2,762.75	FITS: DMV-(D) 5080 ECO	19	
262826*	COIL MAG TYPE 1511/2P 120 V	\$2,811.14	FITS: DMV-DLE 5080 ECO	19	

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
248496*	COIL MAG TYPE 1511/2PL 230V	\$2,811.14	FITS: DMV-DLE 5080 ECO	19	
248504*	COIL MAG TYPE 1611/2P 24V	\$3,914.91	FITS: DMV-(D) 5100 ECO	19	
253677*	COIL MAG TYPE 1611/2P 120V	\$3,914.91	FITS: DMV-(D) 5100 ECO	19	
247870*	COIL MAG TYPE 1611/2P 230V	\$3,914.91	FITS: DMV-(D) 5100 ECO	19	
262825*	COIL MAG TYPE 1611/2PL 120V	\$3,965.90	FITS: DMV-DLE 5100 ECO	19	
248498*	COIL MAG TYPE 1611/2PL 230V	\$3,965.90	FITS: DMV-DLE 5100 ECO	19	
248505*	COIL MAG TYPE 1711/2P 24V	\$6,102.54	FITS: DMV-(D) 5125 ECO	19	
253676*	COIL MAG TYPE 1711/2P 120V	\$6,102.54	FITS: DMV-(D) 5125 ECO	19	
247871*	COIL MAG TYPE 1711/2P 230V	\$6,102.54	FITS: DMV-(D) 5125 ECO	19	
262824*	COIL MAG TYPE 1711/2PL 120V	\$6,150.93	FITS: DMV-DLE 5125 ECO	19	
248500*	COIL MAG TYPE 1711/2PL 230V	\$6,150.93	FITS: DMV-DLE 5125 ECO	19	

ACCESSORIES REPLACEMENT PRINTED CIRCUIT BOARDS

Section 108

Description

Replacement Printed Circuit Boards.

Specifications

Contact technical support for product specific details



[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
245147*	PWB SV 1005-7 120V Fits mag type 20	\$111.00	FOR SV 1005/6X4 1007/6X4	19	
245153*	PWB SV 1010-1020 120V Fits mag type 30 40	\$111.00	FOR SV 1010/6X4 1012/6X4 1015/6X4 1020/6X4	19	
238803*	PWB DMV 701 120V/24VAC Fits mag type 1111	\$111.00	FOR DMV 701	19	
238804*	PWB DMV 701 24Vdc Fits mag type 1111	\$157.32	FOR DMV 701	19	
238806*	PWB DMV 702-3 120V/24VAC Fits mag type 1211 & 1212	\$157.32	FOR DMV 702 703	19	
238807*	PWB DMV 702-3 24Vdc Fits mag type 1211 & 1212	\$157.32	FOR DMV 702 703	19	
266151*	PWB DMV 512-5125 24Vdc Fits mag type 1211, 1212, 1411, 1511, 1611, 1711	\$157.32	FOR DMV 512, 520, 525, 5040, 5050, 5065, 5080, 5100, 5125	19	
266149*	PWB DMV 525, 5040-5080 120VAC Fits mag type 1212, 1411, 1511	\$187.94	FOR DMV 525, 5040, 5050, 5065, 5080	19	
266147*	PWB DMV512-5080 230VAC Fits mag type 1211, 1411, 1511	\$161.36	FOR DMV 512, 520, 525, 5040, 5050, 5065, 5080	19	
266150*	PWB DMV 5100 5125 120VAC Fits mag type 1611, 1711	\$208.16	FOR DMV 5100, 5125	19	
270110*	PWB MV... X05/6 Fits mag type 100	\$128.97		19	
267126*	PWB MV... X07/X10/6 Fits mag type 200	\$90.72		19	
267127*	PWB MV... X12/X15/X20/X25/230/6 Fits mag type 300/400/500	\$326.73		19	
267128*	PWB MV... 530/6 Fits mag type 550	\$112.28		19	

Description

Accessories for other products.


[DUNGS Product Reference Material](#)

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267055*	1/4" NPT PUSH BUTTON	\$82.79	1/4" NPT ISOLATION PUSH BUTTON VALVE, FEMALE / FEMALE THREADS.	19	0.8
266828*	Rp 1/2" PUSH BUTTON	\$90.01	RP 1/2" ISOLATION PUSH BUTTON VALVE, FEMALE / FEMALE THREADS. INCLUDES SEAL (227125)	19	0.8
099028*	MANOMETER	\$232.03	0 - 40 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	0.8
103697*	MANOMETER	\$232.03	0 - 60 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	
082081*	MANOMETER	\$232.03	0 - 100 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	
104083*	MANOMETER	\$232.03	0 - 160 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	
077396*	MANOMETER	\$232.03	0 - 250 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	
104307*	MANOMETER	\$232.03	0 - 400 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	
103705*	MANOMETER	\$232.03	0 - 600 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	
227146*	MANOMETER	\$64.65	0-1.6 BAR PRESSURE RANGE G 1/2 B CONNECTION	19	
119073*	MANOMETER	\$64.65	0-1 BAR PRESSURE RANGE G 1/2 B CONNECTION	19	
217101*	MANOMETER	\$64.65	0-25 MBAR PRESSURE RANGE G 1/2 B CONNECTION	19	0.8
052415*	MANOMETER	\$64.65	0-4 BAR PRESSURE RANGE G 1/2 B CONNECTION	19	0.6
217202*	MANOMETER	\$64.65	0-6 BAR PRESSURE RANGE G 1/2 B CONNECTION	19	0.4
227283*	MANOMETER	\$64.65	0-10 BAR PRESSURE RANGE G 1/2 B CONNECTION	19	0.4
269281*	GAUGE PRESSURE	\$226.98	0-30"WC	19	0.5
269285*	GAUGE PRESSURE	\$316.35	0-60"WC	19	0.5
267778*	GAUGE PRESSURE	\$226.98	0-5 PSI 1/4"	19	
268247*	GAUGE PRESSURE	\$140.77	0-10 PSI 1/4" GLYCERIN FILLED, SS CASE, BRASS FITTINGS	19	
269279*	GAUGE PRESSURE	\$103.10	0-15 PSI 1/4 NPT	19	
269282*	GAUGE PRESSURE	\$103.10	0-30 PSI	19	
269280*	GAUGE PRESSURE	\$211.67	0-60 PSI 1/4 NPT	19	
267782*	GAUGE PRESSURE	\$211.67	0-5 PSIG	19	
267781*	GAUGE PRESSURE	\$211.67	0-10 PSIG	19	
267805*	GAUGE PRESSURE	\$211.67	0-15"WC	19	
267819*	GAUGE PRESSURE	\$211.67	-8" WC +16"WC	19	
224098*	REPLACEMENT COVER FOR VDK	\$976.36	INCLUDES PRINTED VERSION SO2 CE WIRE BOARD	19	1.0
240458*	HYDRAULIC BRAKE	\$283.11	FITS: DMV... 701/702/703 SV 10XX	19	

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
223159*	HYDRAULIC BRAKE	\$199.09	FITS: MV... X05/6	19	
223158*	HYDRAULIC BRAKE	\$238.64	FITS: MV... X07/X10/X12/X15/X20/6 DMV-DLE 5065/5080	19	
223157*	HYDRAULIC BRAKE	\$601.82	FITS: MV... X25/X30/6 DMV-DLE 5100/5125	19	
224457*	HYDRAULIC BRAKE	\$311.42	FITS: SV 507-520; MB420-DMZ 520, H12/6, DMV-DLE 507/11, 512/11, 512/11, 520/11, 5040/11, 5050/11	19	
240457*	ADJUSTMENT KNOB	\$51.11	FITS: DMV 701/702/703	19	
231789*	ADJUSTMENT KNOB	\$51.11	FITS: MV... X05	19	
231790*	ADJUSTMENT KNOB	\$61.57	FITS: MV... X07/X10/X12/X15/X20	19	
231791*	ADJUSTMENT KNOB	\$102.79	FITS: MV... X25/X30	19	
267129*	COVER PWB BOX	\$45.57	FITS: DMV 7XX/6X4 SERIES AND MV... /6 SERIES VALVES COMES WITH 2 SCREWS	19	
254740*	COVER PWB BOX	\$55.92	FITS: SV 1005/1007/505/507 INCLUDES: COVER, GASKET, SCREWS	19	
254741*	COVER PWB BOX	\$55.92	FITS: SV 1010/1012/1015/510/512 INCLUDES: COVER, GASKET, SCREWS	19	
254742*	COVER PWB BOX	\$55.92	FITS: SV 1015/1020/515/520 INCLUDES: COVER, GASKET, SCREWS	19	

Actuators

Product	Model	Section
EMA-Spring Return Actuator	US	110
EMP-1-Proportionating	US	111
EMP-2-Slave Proportionating Actuator	US	112
EMP-5 - 4-20 mA Input Proportionating Actuator	US	113
EMP-9xxxx -High Torque Actuator	US	114
Pneumatic Actuators	US	115
Actuator Accessories	US	116
Actuator Parts	US	117



EMA-SPRING RETURN ACTUATOR

Section 110

Description	Application	Optional Approvals
DUNGS actuators are designed to operate dampers, butterfly valves, and similar devices.	N/A	N/A



DUNGS Product Reference Material

Specifications	ELECTRICAL RATING	120VAC, 60 Hz (+10% / -15%)
	ENCLOSURE RATING	NEMA 4 (with appropriate conduit connection)
	AMBIENT TEMP RATING	-40°F to +136°F (-40°C to +58°C)
	OPERATING MODE	TWO POSITION, SPRING RETURN
	SIZE	5-3/8" x 6-9/16" x 5-3/4" (L x W x H) 1/2" SHAFT

Crank arm included. Auxiliary switch not available.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
269228	EMA-405-1 120 VAC, 60 Hz	\$553.48	16 IN LB OUTPUT; 90 DEG 0.90A; 45 VA RUNNING AND HOLDING	CCW SPRING RETURN 10S NO LOAD TIMING; 30S FULL LOAD TIMING	70	7.6
269242	EMA-418-2 120 VAC, 60 Hz	\$685.34	60 IN LB OUTPUT; 90 DEG 0.40A; 120 VA RUNNING, 42 VA HOLDING	CCW SPRING RETURN 10S NO LOAD TIMING; 30S FULL LOAD TIMING	70	8.5

EMP-1 – PROPORTIONATING ACTUATOR

Section 111

Description

DUNGS actuators are designed to operate dampers, butterfly valves, and similar devices.

Application

N/A

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

ELECTRICAL RATING	120VAC, 60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 1 (NEMA 4 with AM-363 PN 269239)
AUXILIARY SWITCH	SPDT; 6A @ 120VAC
AMBIENT TEMP RATING	-40°F to +136°F (-40°C to +58°C)
OPERATING MODE	POSITION PROPORTIONATING 100 Ohm SLIDEWIRE FEEDBACK
SIZE	5-3/8" x 5-3/8" x 7" (L x W x H) 1/2" SHAFT

Crank arm included. Capable of 180-degree rotation with 180-degree slide wire.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
269235	EMP-423-1 120 VAC, 60 Hz	\$790.73	60 IN LB OUTPUT; 90 DEG 100 OHM; 12S FIXED	0.65A; AUX SW 6A @ 120 VAC	70 8.7
269222	EMP-424-1 120 VAC, 60 Hz	\$869.80	60 IN LB OUTPUT; 90 DEG 100 OHM; 12S ADJUSTABLE	0.65A; AUX SW 6A @ 120 VAC	70 8.7
267207	EMP-453-1 120 VAC, 60 Hz	\$790.73	220 IN LB OUTPUT; 90 DEG 100 OHM; 40S FIXED	0.65A; AUX SW 6A @ 120 VAC	70 8.7
269225	EMP-454-1 120 VAC, 60 Hz	\$869.80	220 IN LB OUTPUT; 90 DEG 100 OHM; 40S ADJUSTABLE	0.65A; AUX SW 6A @ 120 VAC	70 8.7

EMP-2 – SLAVE PROPORTIONATING ACTUATOR

Section 112

Description

DUNGS actuators are designed to operate dampers, butterfly valves, and similar devices.

Application

N/A

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

ELECTRICAL RATING	120VAC, 60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 1 (NEMA 4 with AM-363 PN 269239)
AUXILIARY SWITCH	SPDT; 6A @ 120VAC
AMBIENT TEMP RATING	-40°F to +136°F (-40°C to +58°C)
OPERATING MODE	POTENTIOMETER SLAVED PROPORTIONING, 100-1000 Ohm, SLIDEWIRE FEEDBACK
SIZE	6-5/8" x 5-3/8" x 7" (L x W x H)
	1/2" SHAFT

Crank arm included. Capable of 180-degree rotation with 180-degree slide wire.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267228	EMP-423-2 120 VAC, 60 Hz	\$1,080.64	60 IN LB OUTPUT; 90 DEG 12S FIXED	0.65A; AUX SW 6A @ 120 VAC	70	9.9
267204	EMP-424-2 120 VAC, 60 Hz	\$1,159.68	60 IN LB OUTPUT; 90 DEG 12S ADJUSTABLE	0.65A; AUX SW 6A @ 120 VAC	70	9.9

EMP-5 – 4-20 mA INPUT PROPORTIONATING ACTUATOR

Section 113

Description

DUNGS actuators are designed to operate dampers, butterfly valves, and similar devices.

Application

N/A

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

ELECTRICAL RATING	120VAC, 60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 4
AUXILIARY SWITCH	SPDT; 6A @ 120VAC
AMBIENT TEMP RATING	-40°F to +136°F (-40°C to +58°C)
OPERATING MODE	PROPORTIONING, 4-20 mA INPUT
SIZE	6-5/8" x 5-3/8" x 7" (L x W x H)
	1/2" SHAFT

Crank arm included. Capable of 180-degree rotation with 180-degree slide wire.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267229	EMP-423-5 120 VAC, 60 Hz	\$1,186.17	60 IN LB OUTPUT; 90 DEG 4-20 MA; 100 OHM; 12S FIXED	0.65A; AUX SW 6A @ 120 VAC, 78VA	70	10.5
269223	EMP-424-5 120 VAC, 60 Hz	\$1,265.17	60 IN LB OUTPUT; 90 DEG 4-20 MA; 100 OHM; 12S ADJUSTABLE	0.65A; AUX SW 6A @ 120 VAC	70	10.5
269224	EMP-453-5 120 VAC, 60 Hz	\$1,186.17	220 IN LB OUTPUT; 90 DEG 4-20 MA; 100 OHM; 40S FIXED	0.65A; AUX SW 6A @ 120 VAC	70	10.5
269226	EMP-454-5 120 VAC, 60 Hz	\$1,265.17	220 IN LB OUTPUT; 90 DEG 4-20 MA; 100 OHM; 40S ADJUSTABLE	1.8A; AUX SW 6A @ 120 VAC	70	8.7

EMP-9XXXX – HIGH TORQUE ACTUATOR

Section 114

Description

DUNGS actuators are designed to operate dampers, butterfly valves, and similar devices.

Application

N/A

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

ELECTRICAL RATING	120VAC, 60 Hz (+10% / -15%)
ENCLOSURE RATING	NEMA 1 (NEMA 4 with AM-369 PN 269240)
AUXILIARY SWITCH	SPDT; 6A @ 120VAC
AMBIENT TEMP RATING	-40°F to +130°F (-40°C to +54°C)
OPERATING MODE	Potentiometer Slaved Proportioning, 100-1000 Ohm, Slidewire Feedback (requires AE 504, PN 269237) SPDT or Snap acting controller
SIZE	Proportioning, 4-20 mA Input (Requires CP 8391, PN 267218) 9-1/2" x 10-1/2" x 9-9/16" (L x W x H) 1/2" SHAFT

Crank arm NOT included (Requires PN 267239); Capable of 180-degree rotation with 180-degree slide wire.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
267245	EMP-9430 120 VAC, 60 Hz	\$3,951.41	550 IN LB OUTPUT; 90 DEG 100 OHM; 20S FIXED	1.8A; AUX SW 6A @ 120 VAC REQUIRES CRANK ARM (267239)	70	31.6
269246	EMP-9630 120 VAC, 60 Hz	\$3,951.41	1100 IN LB OUTPUT; 90 DEG 100 OHM; 33S FIXED	1.8A; AUX SW 6A @ 120 VAC REQUIRES CRANK ARM (267239)	70	31.6
269243	EMP-9830 120 VAC, 60 Hz	\$3,951.41	1300 IN LB OUTPUT; 90 DEG 100 OHM; 57S FIXED	1.8A; AUX SW 6A @ 120 VAC REQUIRES CRANK ARM (267239)	70	31.6

PNEUMATIC ACTUATORS

Section 115

Description	Application	Optional Approvals
DUNGS actuators are designed to operate dampers, butterfly valves, and similar devices.	N/A	N/A



DUNGS Product Reference Material

Crank arm NOT included. Refer to selection guide for technical specifics.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
269230	MK-3141 PNEUMATIC ACTUATOR	\$281.18	8" SQ. EFFECTIVE AREA MAX AIR PRESSURE 30 PSI	AIR CONNECTION 1/8" NPT	70	5.3

ACTUATOR ACCESSORIES

Section 116

Description
Actuator Accessories.

Application
N/A

Optional Approvals
N/A



Installation and mounting services are available, contact Customer Service for quote.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
269229	CP-9302-702 For EMP 4xx actuators	\$517.13	4-20 MA DC CURRENT TO POSITION CONVERTER, ADJUSTABLE ZERO AND DEADBAND	NEMA 4 -40 TO +140 DEG F (-40 TO +60 DEG C)	71	0.5
267218	CP-8391-716 High Torque For EMP 9xxx actuators	\$879.57	4-20 MA DC CURRENT TO POSITION CONVERTER, ADJUSTABLE ZERO AND DEADBAND INCLUDES THE COUPLING KIT	NEMA 4 -40 TO +140 DEG F (-40 TO +60 DEG C)	71	0.5
269234	AM-321-0-2 For EMP 4xx actuators	\$290.21	AUXILIARY SWITCH; TWO INDEPENDENTLY ADJUSTABLE SNAP ACTION	NEMA 1 SPDT SWITCHES 5.8 A @ 120 VAC	71	1.2
267226	AM-341-0-2 For EMP 4xx actuators	\$782.09	AUXILIARY SWITCH; FOUR INDEPENDENTLY ADJUSTABLE SNAP ACTION	NEMA 1 SPDT SWITCHES 5.8 A @ 120 VAC	71	1.2
269237	AE-504 Paralleling Relay	\$336.56			71	0.9

ACTUATOR PARTS

Section 117

Description Actuator Parts.	Application N/A	Optional Approvals N/A
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Installation and mounting services are available, contact Customer Service for quote.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267194	ADDA-259-010 SLIDEWIRE	\$206.04	135 OHM, 90 DEG	72	0.1
269221	ADDA-274-010 SLIDEWIRE	\$81.44	1000 OHM, 90 DEG	72	0.1
269241	ADDA-38-010 SLIDEWIRE	\$86.25	100 OHM, 180 DEG	72	0.1
41306-1	ADDA-243-010 SLIDEWIRE	POR	135 OHM, 180 DEG	72	0.1
269220	ADDA-902-5 SLIDEWIRE	\$180.28	100 OHM, 90 DEG SLIDEWIRE AND WIPER ARM KIT REPLACES ADDA-39-010 (267236) AND ADDA-245 (269219)	72	0.1
267191	AM-301 MOUNTING BRACKET	\$89.84	90 DEG MOUNTING BRACKET FOR EMP4XX MOTORS	72	1.3
269231	PND-2-1 DIAPHRAGM	\$59.53	DIAPHRAGM FOR MK-3141 (PN 269230) ACTUATORS FOR MK-314 MOTORS	72	0.2
269238	ADDA-904-1 TRANSFORMER KIT	\$231.85	120/240 VAC TRANSFORMER KIT	72	0.3
269232	AM-132	\$10.27	5/16" DIA HOLE BALL JOINT LINKAGE SWIVEL CONNECTOR	72	0.1
269233	AM-122	\$12.96	5/16" DIA HOLE STRAIGHT LINKAGE CONNECTOR.	72	0.1
267223	AM-125	\$20.13	5/16" DIA. X 20" DAMPER ROD FOR 173-LB LOAD	72	0.4
267240	AM-394	\$388.12	CONNECTOR LINK WITH 1/2" BALL JOINTS ADJUSTABLE 15-3/4" TO 24-3/4" IN LENGTH	72	2.2
267224	AM-113	\$12.64	1/2" DIA CRANK ARM STANDARD ON EMA 4XX AND EMP 4XX MOTORS	72	0.2
267242	AM-116	\$29.46	1/2" DIA SPLINED CRANK ARM STANDARD ON EMA 4XX AND EMP 4XX MOTORS	72	0.2
267239	AM-392	\$354.49	3/4" DIA CRANK ARM FOR EMP 9XXX MOTORS	72	1.1
269239	AM-363	\$46.71	WEATHER RESISTANT COVERS FOR EMP 4XX ACTUATORS NEMA 4	72	0.2
269240	AM-369	\$414.96	WEATHER RESISTANT COVERS FOR EMP 9XXX ACTUATORS NEMA 4	72	0.4
050007	1/2" Conduit Extension	POR	TWO (2) REQUIRED FOR EMP 9XXX ACTUATORS WHEN MOUNTING 4-20 MA CONTROL BOX (267218)	72	0.1
43208	AM-773	POR	FITTINGS FOR CP8391-703 MOUNTING INCLUDED IN CP-8391-716 (267218)	72	0.0

Ignition Transformers

Product	Model	Section
Ignition Transformers	US	120
DEZ Ignition Transformers	US	121



IGNITION TRANSFORMERS

Section 120

Description
Ignition Transformers.

Application
N/A

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

ENCLOSURE RATING NEMA 1
AMBIENT TEMPERATURE RATING +5°F to +110°F

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267344	IGNITION TRANSFORMER 1092 TYPE S	\$249.38	120 VAC 60 HZ PRIMARY; 6000 V SECONDARY	73	10.0
267341	IGNITION TRANSFORMER 1092 SG	\$249.38	120 VAC 60 HZ 600 V SECONDARY	73	10.0
267345	IGNITION TRANSFORMER 542GP	\$517.04	120 VAC 60 HZ PRIMARY; 10,000 V SECONDARY	73	13.0
267343	IGNITION TRANSFORMER 1112 TYPE S	\$253.25	240 VAC 60 HZ PRIMARY; 6000 V SECONDARY	73	10.0
267342	IGNITION TRANSFORMER 1196 TYPE S	\$253.25	240 VAC 50 HZ PRIMARY; 6000 V SECONDARY	73	10.0

DEZ IGNITION TRANSFORMERS

Section 121

Description

The DUNGS DEZ are electronic high-performance ignition transformers with high-frequency oscillation technology. Compared with conventional inductive ignition transformers, the DEZ are much smaller and lighter. Designs for one or two ignition electrodes are available in different voltage versions. SEO Model is the single electrode model. SEO versions are to be used when both ignition of the burner & flame monitoring via flame rod (ionization) are done with the same electrode.

Application

For oil and gas burners, ignition takes place, depending on design, with one ignition electrode against the burner mass or with two ignition electrodes between the electrodes. The DEZ ignition transformers are available in two versions: either (DEZ 1xx) with a high-voltage output for ignition against the burner mass or (DEZ 2xx) with two high-voltage outputs for ignition between the electrodes. For use in burner systems in which ignition and ionization flame monitoring takes place via a common electrode, the "SEO" versions must be used. Transformers for two electrodes are available upon request.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)



Approvals: 73/23/EEC Low-Voltage Directive, 89/336/EEC EMC Directive Ignition cables to be ordered from Dungs when ordering DEZ Transformers.

The cables are not standard cables. One high voltage electrode cable and one power cable required per DEZ 1xx. Two high voltage electrode cables and one power cable required per DEZ 2xx.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
255018	DEZ 101 IGNITION TRANSFORMER 120 VAC	\$90.60			34	0.7
257127	DEZ 101 IGNITION TRANSFORMER SEO 120 VAC	\$90.60	DEZ SINGLE ELECTRODE IGNITION TRANSFORMER		34	0.7
252113	DEZ 100 IGNITION TRANSFORMER 230 VAC	\$112.58			34	0.7
257126	DEZ 100 IGNITION TRANSFORMER SEO 230 VAC	\$112.58	DEZ SINGLE ELECTRODE IGNITION TRANSFORMER		34	0.7
252114	DEZ 200 IGNITION TRANSFORMER 230 VAC	\$115.97			34	0.7
252120	IGNITION TRANSFORMER SECONDARY CABLE 370 mm	\$17.34	SECONDARY HIGH VOLTAGE ELECTRODE CABLE	W/ PRE-MOLDED 4.0MM RAJAH CONNECTOR	34	0.0
252121	IGNITION TRANSFORMER SECONDARY CABLE 1000 mm	\$25.72	SECONDARY HIGH VOLTAGE ELECTRODE CABLE	W/ PRE-MOLDED 4.0MM RAJAH CONNECTOR	34	0.1
252122	IGNITION TRANSFORMER SECONDARY CABLE 1500 mm	\$30.22	SECONDARY HIGH VOLTAGE ELECTRODE CABLE	W/ PRE-MOLDED 4.0MM RAJAH CONNECTOR	34	0.1
294839*	DEZ 1xx/2xx IGNITION CABLE 370 mm	\$58.97	6.3MM IGNITION CONNECTOR 5.2 OD IGNITION CABLE	ELECTRODE STRAIGHT INSULATED UL/CSA	34	0.5
294840*	DEZ 1xx/2xx IGNITION CABLE 1000 mm	\$60.75	6.3MM IGNITION CONNECTOR 5.2 OD IGNITION CABLE	ELECTRODE STRAIGHT INSULATED UL/CSA	34	0.5

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
294841*	DEZ 1xx/2xx IGNITION CABLE 1500 mm	\$62.66	6.3MM IGNITION CONNECTOR 5.2 OD IGNITION CABLE	ELECTRODE STRAIGHT INSULATED UL/CSA	34	0.5
254827*	IGNITION TRANSFORMER PRIMARY CABLE 265 mm	\$15.84	PRIMARY POWER CABLE FOR DEZ	W/ PRE-MOLDED CONNECTOR	34	0.0
252119*	IGNITION TRANSFORMER PRIMARY CABLE 1000 mm	\$17.34	PRIMARY POWER CABLE FOR DEZ	W/ PRE-MOLDED CONNECTOR	34	0.1
261303*	IGNITION TRANSFORMER PRIMARY CABLE 5000 mm	\$65.16	PRIMARY POWER CABLE FOR DEZ	W/ PRE-MOLDED CONNECTOR	34	0.5

Manual Shut-Off Valves

Product	Model	Section
DUNGS Ball Valves - KH	US	130
Ball Valves - KH	EU	131
Flanged Ball Valves - FKH	US/EU	132
Lug Butterfly Valves - BV	CE	133
Ball Valves Locking NPT	US	134
Ball Valves / Locking Rp/BSPT	EU	135



DUNGS BALL VALVES - KH

Section 130

Description
1/4" NPT to 3" NPT ball valve.

Application
The ball valve is for manual shutoff suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE 14.5 PSI (1000 mbar) (125 PSI UL)
AMBIENT TEMP RATING -40 °F to +300 °F (-20 °C to +150 °C))

Brass body; Full port.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
268443	KH 01/6-02 1/4" NPT	\$25.12	BRASS BODY	66	0.2
268444	KH 01/6-03 3/8" NPT	\$26.44	BRASS BODY	66	0.3
268445	KH 01/6-05 1/2" NPT	\$37.58	BRASS BODY	66	0.6
268446	KH 01/6-07 3/4" NPT	\$48.66	BRASS BODY	66	0.8
268447	KH 01/6-10 1" NPT	\$69.14	BRASS BODY	66	1.5
268449	KH 01/6-12 1 1/4" NPT	\$112.62	BRASS BODY	66	2.3
268451	KH 01/6-15 1 1/2" NPT	\$135.65	BRASS BODY	66	3.5
268452	KH 01/6-20 2" NPT	\$188.07	BRASS BODY	66	4.8
268453	KH 01/6-25 2 1/2" NPT	\$755.02	BRASS BODY NOT FM APPROVED	66	8.9
268454*	KH 01/6-30 3" NPT	\$873.80	BRASS BODY NOT FM APPROVED	66	12.4

BALL VALVES - KH

Section 131

Description
Rp 1/4 to Rp 2 ball valve,
PN 1 as per DIN 3537 Part 1.

Application
The ball valve is for manual shutoff
suitable for natural gas, propane,
butane, air and other inert gases.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE 14.5 PSI (1000 mbar)
AMBIENT TEMP RATING -4 °F to +300 °F (-20 °C to +150 °C)

Brass body; Full port.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
260768	BALL VALVE 1/4" RP	\$35.60	MANUALLY OPERATED; 5 BAR CE	HARD CHROME PLATED.	66	
260769	BALL VALVE 3/8" RP	\$37.46	MANUALLY OPERATED; 5 BAR CE	HARD CHROME PLATED.	66	
260772	BALL VALVE 1/2" RP	\$50.55	MANUALLY OPERATED; 5 BAR CE	HARD CHROME PLATED.	66	
260773	BALL VALVE 3/4" RP	\$56.69	MANUALLY OPERATED; 5 BAR CE	HARD CHROME PLATED.	66	
260774	BALL VALVE 1" RP	\$86.98	MANUALLY OPERATED; 5 BAR CE;	HARD CHROME PLATED.	66	
260777	BALL VALVE 1 1/2" RP	\$148.46	MANUALLY OPERATED; 5 BAR CE;	HARD CHROME PLATED.	66	
260778	BALL VALVE 2" RP	\$239.73	MANUALLY OPERATED; 5 BAR CE;	HARD CHROME PLATED.	66	

FLANGED BALL VALVES - FKH

Section 132

Description
DIN 40 to DIN 150 ball valve,
Flange PN 16 as per DIN 2533.

Application
The ball valve is for manual shutoff
suitable for natural gas, propane,
butane, air and other inert gases.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE 232 PSI (16 bar)
AMBIENT TEMP RATING +14 °F to +212°F (-10 °C to +100 °C)

Cast Iron body; Full port.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
238581	KH DN. 40	\$703.79	MANUALLY OPERATED; CAST IRON BODY.	64	15.4
238582	KH DN. 50	\$712.99	MANUALLY OPERATED; CAST IRON BODY	64	19.2
238583	KH DN. 65	\$756.58	MANUALLY OPERATED; CAST IRON BODY	64	32.0
238584	KH DN. 80	\$1,011.39	MANUALLY OPERATED; CAST IRON BODY.	64	41.9
238585	KH DN. 100	\$1,146.83	MANUALLY OPERATED; CAST IRON BODY	64	47.4
238586	KH DN. 125	\$1,998.83	MANUALLY OPERATED; CAST IRON BODY	64	114.6
238587	KH DN. 150	\$2,540.30	MANUALLY OPERATED; CAST IRON BODY.	64	145.5

LUG BUTTERFLY VALVES - BV

Section 133

Description

1-1/2" to 6" Lug Butterfly Valves in DN or ANSI flanged versions. DN40 to DN150 flanges PN16 as per DIN EN 1092 or 1-1/2" to 6" 150 lb ANSI flanges according to ASME B16.5.

Application

The butterfly valve is for manual shutoff suitable for natural gas, propane, butane, air and other inert gases. They can also be used on dry and clean landfill gas (Ask Dungs for further advice). CSA approved Viton versions also available for use with corrosive gases.

Optional Approvals

N/A



DUNGS Product Reference Material

Specifications

MAX. OPERATING PRESSURE	125 PSIG CSA approved
AMBIENT TEMP RATING	-4 °F to +140°F (-20 °C to +60 °C)

Lug Bolts: DIN Threaded Bolts & Studs required for DN butterfly valves.

UNF Bolts and Studs Required for ANSI butterfly valves. Parts sold separately.

Cast Iron Body, Stainless Steel Butterfly, NBR Lining, Locking handle as standard.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
266012	BUTTERFLY VALVE DN. 40 PN16	\$615.16	MANUALLY OPERATED; CAST IRON BODY	64	8.2
266013	BUTTERFLY VALVE DN. 50 PN16	\$623.21	MANUALLY OPERATED; CAST IRON BODY	64	10.2
266014	BUTTERFLY VALVE DN. 65 PN16	\$661.27	MANUALLY OPERATED; CAST IRON BODY	64	12.2
266015	BUTTERFLY VALVE DN. 80 PN16	\$923.24	MANUALLY OPERATED; CAST IRON BODY.	64	18.3
266016	BUTTERFLY VALVE DN. 100 PN16	\$1,002.39	MANUALLY OPERATED; CAST IRON BODY	64	21.3
266017	BUTTERFLY VALVE DN. 125 PN16	\$1,455.84	MANUALLY OPERATED; CAST IRON BODY	64	22.3
266018	BUTTERFLY VALVE DN. 150 PN16	\$1,973.59	MANUALLY OPERATED; CAST IRON BODY	64	28.3
266100*	BUTTERFLY VALVE 1 1/2" ANSI 150 lbs	\$615.16	MANUALLY OPERATED; CAST IRON BODY	64	8.2
266101	BUTTERFLY VALVE 2" ANSI 150 lbs	\$623.21	MANUALLY OPERATED; CAST IRON BODY	64	10.2
266102	BUTTERFLY VALVE 2 1/2" ANSI 150 lbs	\$661.27	MANUALLY OPERATED; CAST IRON BODY	64	12.2
266103	BUTTERFLY VALVE 3" ANSI 150 lbs	\$923.24	MANUALLY OPERATED; CAST IRON BODY	64	18.3
266104	BUTTERFLY VALVE 4" ANSI 150 lbs	\$1,002.39	MANUALLY OPERATED; CAST IRON BODY.	64	21.3
266105*	BUTTERFLY VALVE 5" ANSI 150 lbs	\$1,455.84	MANUALLY OPERATED; CAST IRON BODY	64	22.3
266106	BUTTERFLY VALVE 6" ANSI 150 lbs	\$1,973.59	MANUALLY OPERATED; CAST IRON BODY.	64	28.3

BALL VALVES – LOCKING NPT

Section 134

Description
NPT ¼" to NPT 4" brass body ball valve with lever and lever lock handle. Full port.

Application
The ball valve is for manual shutoff suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE 125 Psig (CSA), 600 PSI (CWP) up to 2"; 450 PSI (CWP) over 2"
AMBIENT TEMP RATING -40°F to +350°F

Brass body; Full port.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267892	BALL VALVE 1/4" NPT	\$42.55	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267893	BALL VALVE 3/8" NPT	\$47.13	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267894	BALL VALVE 1/2" NPT	\$58.50	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267895	BALL VALVE 3/4" NPT	\$69.70	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267896	BALL VALVE 1" NPT	\$104.74	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267897	BALL VALVE 1 1/4" NPT	\$149.09	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267898	BALL VALVE 1 1/2" NPT	\$172.27	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267899	BALL VALVE 2" NPT	\$227.81	MANUALLY OPERATED WITH LOCKING DEVICE	66	
270580	BALL VALVE 2 1/2" NPT	\$820.51	MANUALLY OPERATED WITH LOCKING DEVICE	66	
267900	BALL VALVE 3" NPT	\$907.80	MANUALLY OPERATED WITH LOCKING DEVICE	66	

BALL VALVES – LOCKING Rp/BSPT

Section 135

Description

Rp 1/2" to Rp 2" nickel plated brass body ball valve with lever and lever lock handle. Full port.

Application

The ball valve is for manual shutoff suitable for natural gas, propane, butane, air and other inert gases.

Optional Approvals

N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE	5 Barg for Combustible gases/40 bar for inert gases
AMBIENT TEMP RATING	40°F to +170°F

Nickel Plated Brass body; Full port.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
272413	BALL VALVE 1/4" Rp	\$59.71	MANUALLY OPERATED WITH LOCKING DEVICE	66	1.0
267747	BALL VALVE 1/2" Rp	\$64.35	MANUALLY OPERATED WITH LOCKING DEVICE	66	1.0
267872	BALL VALVE 3/4" Rp	\$76.66	MANUALLY OPERATED WITH LOCKING DEVICE	66	1.0
267748	BALL VALVE 1" Rp	\$115.25	MANUALLY OPERATED WITH LOCKING DEVICE	66	1.0
267963	BALL VALVE 1 1/4" Rp	\$163.97	MANUALLY OPERATED WITH LOCKING DEVICE	66	1.0
268244	BALL VALVE 1 1/2" Rp	\$189.47	MANUALLY OPERATED WITH LOCKING DEVICE	66	1.0
267948	BALL VALVE 2" Rp	\$253.65	MANUALLY OPERATED WITH LOCKING DEVICE	66	5.0

Orifices & Venturis

Product	Model	Section
Brass Orifices & Venturi Meters	US	150



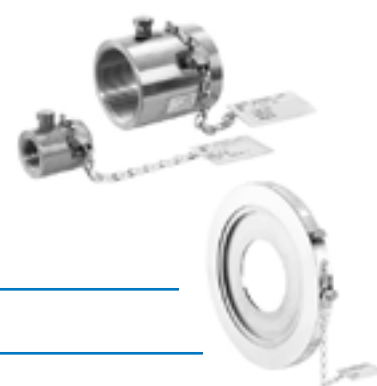
BRASS ORIFICES & VENTURI METERS

Section 150

Description
Orifice and Venturi Meters.

Application
Low-cost metering device that provides accurate setting of air or gas for optimum efficiency.

Optional Approvals
N/A



[DUNGS Product Reference Material](#)

Specifications

MAX. OPERATING PRESSURE 250 PSI

Other models are available on request.

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
269249	SBO-G-3 1/2" NPT	\$106.85	BETA RATIO 0.301	HEAD LOSS 89%; 33 SCFH	74	0.4
269258	SBO-H-1 1/2" NPT	\$106.85	BETA RATIO 0.402	HEAD LOSS 87%; 54 SCFH	74	0.4
269268	SBO-I-5 1/2" NPT	\$106.85	BETA RATIO 0.500	HEAD LOSS 85%; 87 SCFH	74	0.4
269271	SBO-J-7 1/2" NPT	\$106.85	BETA RATIO 0.703	HEAD LOSS 73%; 214 SCFH	74	0.4
269272	SBO-F-1 1/2" NPT	\$106.85	BETA RATIO 0.804	HEAD LOSS 63%; 360 SCFH	74	0.4
267292	SBO-K-1 3/4" NPT	\$131.09	BETA RATIO 0.152	HEAD LOSS 90%; 16 SCFH	74	0.5
267293	SBO-J-3 3/4" NPT	\$131.09	BETA RATIO 0.536	HEAD LOSS 90%; 31 SCFH	74	0.5
269273	SBO-A-1 3/4" NPT	\$131.09	BETA RATIO 0.300	HEAD LOSS 89%; 52 SCFH	74	0.5
269274	SBO-B-5 3/4" NPT	\$131.09	BETA RATIO 0.380	HEAD LOSS 87%; 82 SCFH	74	0.5
269250	SBO-C-3 3/4" NPT	\$131.09	BETA RATIO 0.455	HEAD LOSS 85%; 119 SCFH	74	0.5
269251	SBO-D-7 3/4" NPT	\$131.09	BETA RATIO 0.531	HEAD LOSS 83%; 165 SCFH	74	0.5
269252	SBO-B-9 1" NPT	\$153.07	BETA RATIO 0.536	HEAD LOSS 79%; 275 SCFH	74	0.9
269253	SBO-C-5 1" NPT	\$153.07	BETA RATIO 0.596	HEAD LOSS 76%; 348 SCFH	74	0.9
269302	SBO-D-11 1" NPT	\$153.07	BETA RATIO 0.655	HEAD LOSS 73%; 450 SCFH	74	0.9
267270	SBO-E-3 1" NPT	\$153.07	BETA RATIO 0.715	HEAD LOSS 65%; 576 SCFH	74	0.9
269255	SBO-F-13 1" NPT	\$153.07	BETA RATIO 0.632	HEAD LOSS 58%; 720 SCFH	74	0.9
269262	SBO-X-1 1" NPT	\$153.07	BETA RATIO 0.417	HEAD LOSS 80%; 159 SCFH	74	0.9
269256	SBO-585 1 1/4" NPT	\$222.96	BETA RATIO 0.634	HEAD LOSS 65%; 700 SCFH	74	1.0

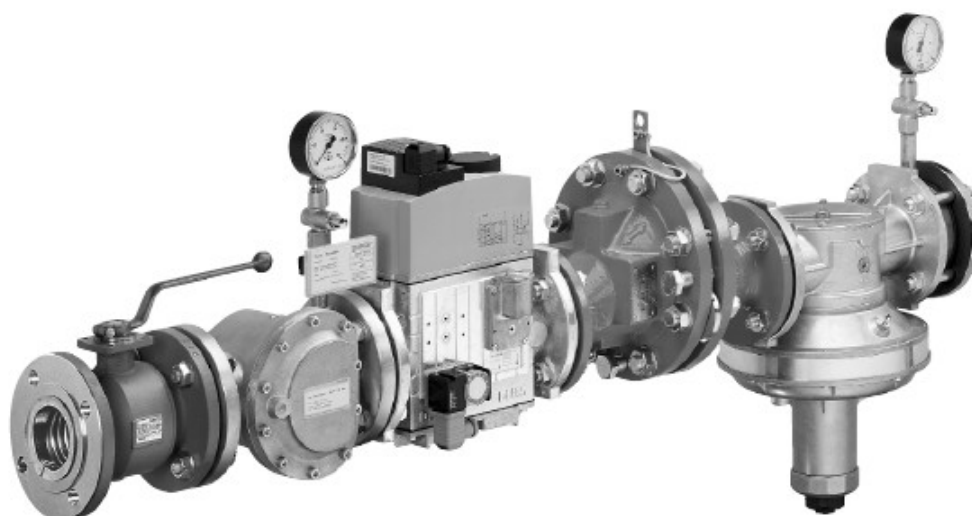
Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267273	SBO-667 1 1/4" NPT	\$222.96	BETA RATIO 0.725 HEAD LOSS 55%; 1030 SCFH	74	1.0
267280	SBO-396 1 1/4" NPT	\$222.96	BETA RATIO 0.430 HEAD LOSS 82%; 290 SCFH	74	1.0
269263	SBO-478 1 1/4" NPT	\$222.96	BETA RATIO 0.520 HEAD LOSS 76%; 438 SCFH	74	1.0
269257	SBO-685 1 1/2" NPT	\$234.18	BETA RATIO 0.738 HEAD LOSS 47%; 1380 SCFH	74	1.2
269259	SBO-722 1 1/2" NPT	\$234.18	BETA RATIO 0.776 HEAD LOSS 42%; 1608 SCFH	74	1.2
269264	SBO-440 1 1/2" NPT	\$234.18	BETA RATIO 0.410 HEAD LOSS 78%; 355 SCFH	74	1.2
269265	SBO-559 1 1/2" NPT	\$234.18	BETA RATIO 0.602 HEAD LOSS 67%; 806 SCFH	74	1.2
269266	SBO-628 1 1/2" NPT	\$234.18	BETA RATIO 0.677 HEAD LOSS 58%; 1084 SCFH	74	1.2
269260	SBO-621 2" NPT	\$308.10	BETA RATIO 0.665 HEAD LOSS 60%; 1689 SCFH	74	1.5
269261	SBO-677 2" NPT	\$308.10	BETA RATIO 0.725 HEAD LOSS 48%; 2350 SCFH	74	2.0
269267	SBO-448 2" NPT	\$308.10	BETA RATIO 0.479 HEAD LOSS 78%; 794 SCFH	74	1.5
269269	SBO-551 2" NPT	\$308.10	BETA RATIO 0.590 HEAD LOSS 68%; 1259 SCFH	74	1.5
269270	SBO-369 2" NPT	\$308.10	BETA RATIO 0.392 HEAD LOSS 84%; 650 SCFH	74	1.5
267329*	VCW-628 2 1/2" NPT	POR	HEAD LOSS 10%	74	5.2
267330*	VCW-746 2 1/2" NPT	POR	HEAD LOSS 10%	74	5.2
267331*	VCW-623 3" NPT	POR	HEAD LOSS 10%	74	2.9
290332*	VCW-745 3" NPT	POR	HEAD LOSS 10%	74	7.0
267332*	VCW-675 4" NPT	POR	BETA RATIO 0.675 HEAD LOSS 10%; 8485 SCFH	74	7.0
290331*	VCW-555 4" NPT	POR	HEAD LOSS 10%	74	7.0
267333*	VCW-743 6" NPT	POR	BETA RATIO 0.743 HEAD LOSS 10%; 16122 SCFH	74	10.1
267326*	VCW-750 8" NPT	POR	HEAD LOSS 10%	74	3.2
267327*	VCW-755 10" NPT	POR	HEAD LOSS 10%	74	4.7
267328*	VCW-721 16" NPT	POR	HEAD LOSS 10%	74	14.0
267311*	VBS-138 3/4" NPT	POR	HEAD LOSS 10%	74	1.4
267317*	VBS-276 3/4" NPT	POR	HEAD LOSS 10%	74	1.4

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267319*	VBS-414 3/4" NPT	POR	HEAD LOSS 10%	74	1.4
267320*	VBS-550 3/4" NPT	POR	HEAD LOSS 10%	74	1.4
267321*	VBS-230 1/2" NPT	POR	HEAD LOSS 10%	74	1.0
267322*	VBS-270 1" NPT	POR	HEAD LOSS 10%	74	1.9
267323*	VBS-406 1" NPT	POR	BETA RATIO 0.406 HEAD LOSS 10%; 204 SCFH	74	1.0
267324*	VBS-513 1" NPT	POR	HEAD LOSS 10%	74	1.9
267312*	VBS-648 1" NPT	POR	HEAD LOSS 10%	74	1.9
267313*	VBS-500 1 1/4" NPT	POR	HEAD LOSS 10%	74	1.0
267314*	VBS-505 1 1/2" NPT	POR	HEAD LOSS 10%	74	2.9
267315*	VBS-632 1 1/2" NPT	POR	HEAD LOSS 10%	74	2.9
271302*	VBS-485 2" NPT	POR	BETA RATIO 0.485 HEAD LOSS 10%; 1043 SCFH	74	1.5
267316*	VBS-685 2" NPT	POR	HEAD LOSS 10%	74	1.5
267296*	CO-708-2.5 2 1/2"	POR	BETA RATIO 0.708 HEAD LOSS 45%; 294 SCFH	74	2.9
267303*	CO-810-2.5 2 1/2"	POR	BETA RATIO 0.810 HEAD LOSS 20%	74	2.9
267304*	CO-653-3 3"	POR	BETA RATIO 0.653 HEAD LOSS 57%; 365 SCFH	74	2.9
267305*	CO-734-3 3"	POR	BETA RATIO 0.734 HEAD LOSS 40%	74	2.9
267306*	CO-794-3 3"	POR	BETA RATIO 0.794 HEAD LOSS 30%	74	3.4
267308*	CO-619-4 4"	POR	BETA RATIO 0.619 HEAD LOSS 60%	74	5.2
267309*	CO-712-4 4"	POR	BETA RATIO 0.712 HEAD LOSS 45%	74	5.2
267310*	CO-804-4 4"	POR	BETA RATIO 0.804 HEAD LOSS 22%	74	5.2
273663*	CO-750-5 5"	POR	BETA RATIO 0.750 HEAD LOSS 32%	74	2.9
267307*	CO-575-6 6"	POR	BETA RATIO 0.575 HEAD LOSS 66%; 1100 SCFH	74	2.9
267297*	CO-750-6 6"	POR	BETA RATIO 0.750 HEAD LOSS 32%	74	2.9
267298*	CO-800-8 8"	POR	BETA RATIO 0.800 HEAD LOSS 25%	74	10.0
267299*	CO-775-10 10"	POR	BETA RATIO 0.775 HEAD LOSS 28%	74	4.7

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
267300*	CO-792-12 12"	POR	BETA RATIO 0.792, HEAD LOSS 25%	74	7.3
267301*	CO-800-14 14"	POR	BETA RATIO 0.800, HEAD LOSS 25%	74	12.4

Gas Train Systems

Product	Model	Section
Preconfigured Burner Gas Trains	US	160
Assembly Fees	US/EU	170
Configuration Sheets		
DMV 701/702/703	US	170
DMV 704/525/5	US	170
MB-E Systems MB-E Flanged	US	170
MB-E Systems MB-E VB-2L - VB-50	US	170
Gas Train Request	US/EU	170
Gas Train Quote Request		170
Return Authorization Form		170



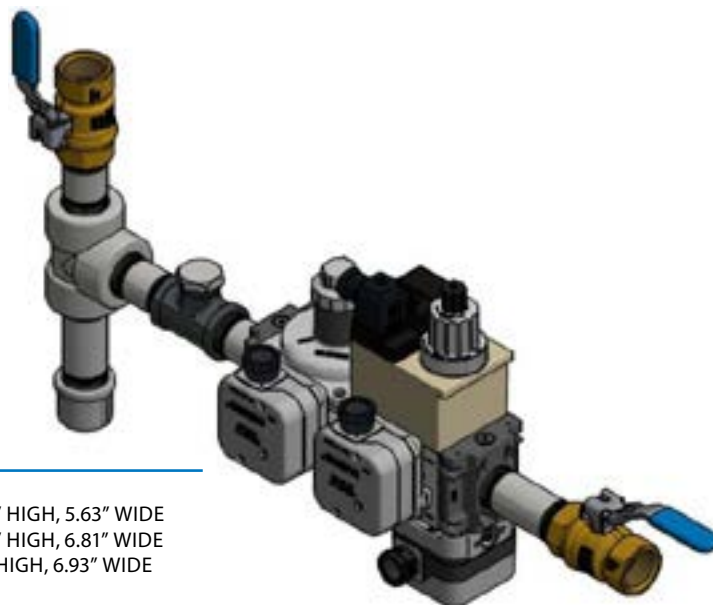
PRECONFIGURED BURNER GAS TRAINS

Section 160

Description

Dungs Preconfigured Burner Gas Trains utilize the most versatile components and are designed to NFPA 86, with slow opening valve, automatic reset gas pressure switches, and proof-of-closure. All electrical components can be wired to an optional junction box. Includes 1/2" NPT take-off for pilot line and inlet drip leg. Gas Train is assembled, tested and kept in stock in limited quantities. Available in Right to Left or Left to Right configurations.

Preconfigured Burner Gas Trains fit a variety of burners, and are available in 1" NPT, 1 1/2" NPT, and 2" NPT. Assembly includes DMV-DLE with Proof of Closure, GAO-A2 switches, FRI Regulator, and Visual Indicator.



Dimensions

1" NPT: 22.88" LONG, 12.73" HIGH, 5.63" WIDE
1.5" NPT: 29.69" LONG, 16.57" HIGH, 6.81" WIDE
2" NPT: 33.4" LONG, 20.05" HIGH, 6.93" WIDE

MAXIMUM INLET PRESSURE: 7 psig
ELECTRICAL VOLTAGE: 120VAC/60 Hz

APPROXIMATE NG FLOW AT 4" PRESSURE DROP: 1" – 750 scfh
1 1/2" – 1700 scfh
2" – 2150 scfh

Optional springs are available for order as a separate line item that ships loose. Spring will be an additional charge as a ship loose item.

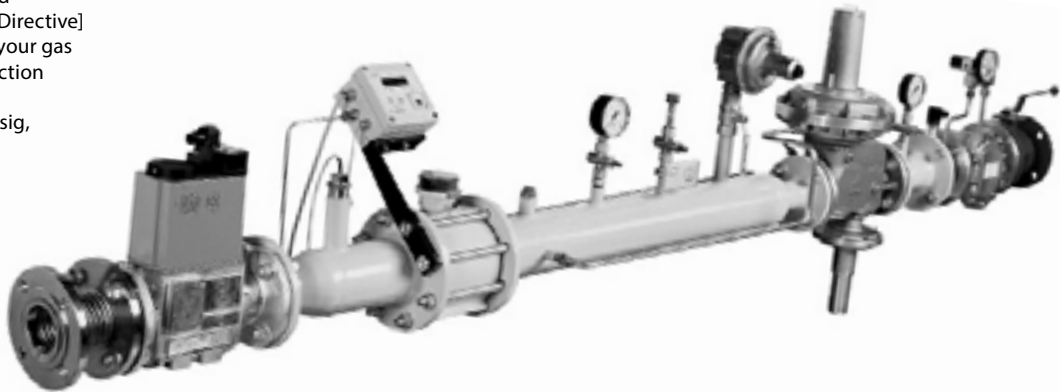
Drawing is included in price of Gas Train.

Part No.	Model	USD List Price	Technical Data	PG	Weight (LBS)
295680	1" NPT GAS TRAIN (4-12" wc) L-R 120 VAC	\$3,347.55	GT, 1" NPT, 7 PSIG - (4-12"WC), BLUE SPRING INSTALLED	229818-WHITE SPRING OPTIONAL (2-5"WC) 229822-RED SPRING OPTIONAL (10-22"WC)	61
296729	1" NPT GAS TRAIN (4-12" wc) R-L	\$3,347.55	GT, 1" NPT, 7 PSIG - (4-12"WC), 120 VAC BLUE SPRING INSTALLED	229818-WHITE SPRING OPTIONAL (2-5"WC) 229822-RED SPRING OPTIONAL (10-22"WC)	61
296237	1" NPT GAS TRAIN (12-28" wc) L-R	\$3,347.55	GT, 1" NPT, 7 PSIG - (12-28"WC), 120 VAC YELLOW SPRING INSTALLED	229822-RED SPRING OPTIONAL (10-22"WC) 229824-BLACK SPRING OPTIONAL (24-44"WC)	61
296730	1" NPT GAS TRAIN (12-28" wc) R-L	\$3,347.55	GT, 1" NPT, 7 PSIG - (12-28"WC), 120 VAC YELLOW SPRING	229822-RED SPRING OPTIONAL (10-22"WC) 229824-BLACK SPRING OPTIONAL (24-44"WC)	61
296238	1" NPT GAS TRAIN (24-44" wc) L-R	\$3,347.55	GT, 1" NPT, 7 PSIG - (24-44"WC), 120 VAC BLACK SPRING INSTALLED	229825 PINK SPRING OPTIONAL (40-60"WC)	61
296731	1" NPT GAS TRAIN (24-44" wc) R-L	\$3,347.55	GT, 1" NPT, 7 PSIG - (24-44"WC), 120 VAC BLACK SPRING INSTALLED	229825 PINK SPRING OPTIONAL (40-60"WC)	61
296020	1.5" NPT GAS TRAIN (4-12" wc) L-R	\$3,948.43	GT, 1 1/2" NPT, 7 PSIG - (4-12"WC), 120 VAC BLUE SPRING INSTALLED	229843 WHITE SPRING OPTIONAL (2-5"WC)	61
296732	1.5" NPT GAS TRAIN (4-12" wc) R-L	\$3,948.43	GT, 1 1/2" NPT, 7 PSIG - (4-12"WC), 120 VAC BLUE SPRING INSTALLED	229843 WHITE SPRING OPTIONAL (2-5"WC)	61

Part No.	Model	USD List Price	Technical Data		PG	Weight (LBS)
296241	1.5" NPT GAS TRAIN (12-28" wc) L-R	\$3,948.43	GT, 1 1/2" NPT, 7 PSIG - (12-28"WC), 120 VAC YELLOW SPRING	229846 RED SPRING OPTIONAL (10-22"WC) 229848-BLACK SPRING OPTIONAL (24-44"WC)	61	
296733	1.5" NPT GAS TRAIN (12-28" wc) R-L	\$3,948.43	GT, 1 1/2" NPT, 7 PSIG - (12-28"WC), 120 VAC YELLOW SPRING	229846 RED SPRING OPTIONAL (10-22"WC) 229848-BLACK SPRING OPTIONAL (24-44"WC)	61	
296242	1.5" NPT GAS TRAIN (24-44" wc) L-R	\$3,948.43	GT, 1 1/2" NPT, 7 PSIG - (24-44"WC), 120 VAC BLACK SPRING INSTALLED	229849 PINK SPRING OPTIONAL (40-60"WC)	61	
296734	1.5" NPT GAS TRAIN (24-44" wc) R-L	\$3,948.43	GT, 1 1/2" NPT, 7 PSIG - (24-44"WC), 120 VAC BLACK SPRING INSTALLED	229849 PINK SPRING OPTIONAL (40-60"WC)	61	
295681	2" NPT GAS TRAIN (4-12" wc) L-R	\$4,141.93	GT, 2" NPT, 7 PSIG - (4-12"WC), 120 VAC BLUE SPRING INSTALLED	229843-WHITE SPRING OPTIONAL (2-5"WC) 229846-RED SPRING OPTIONAL (10-22"WC)	61	
296735	2" NPT GAS TRAIN (4-12" wc) R-L	\$4,141.93	GT, 2" NPT, 7 PSIG - (4-12"WC), 120 VAC BLUE SPRING INSTALLED	229843-WHITE SPRING OPTIONAL (2-5"WC) 229846-RED SPRING OPTIONAL (10-22"WC)	61	
296239	2" NPT GAS TRAIN (12-28" wc) L-R	\$4,141.93	GT, 2" NPT, 7 PSIG - (12-28"WC), 120 VAC YELLOW SPRING	229846-RED SPRING OPTIONAL (10-22" WC) 229848-BLACK SPRING OPTIONAL (24-44"WC)	61	
296736	2" NPT GAS TRAIN (12-28" wc) R-L	\$4,141.93	GT, 2" NPT, 7 PSIG - (12-28"WC), 120 VAC YELLOW SPRING	229846-RED SPRING OPTIONAL (10-22" WC) 229848-BLACK SPRING OPTIONAL (24-44"WC)	61	
296240	2" NPT GAS TRAIN (24-44" wc) L-R	\$4,141.93	GT, 2" NPT, 7 PSIG - (24-44"WC), 120 VAC BLACK SPRING INSTALLED	229849-PINK SPRING OPTIONAL (40-60"WC)	61	
296737	2" NPT GAS TRAIN (24-44" wc) R-L	\$4,141.93	GT, 2" NPT, 7 PSIG - (24-44"WC), 120 VAC BLACK SPRING INSTALLED	229849-PINK SPRING OPTIONAL (40-60"WC)	61	
294959	Junction Box L-R	\$2,189.46	PRE-WIRED JUNCTION BOX FOR STANDARD GAS TRAINS. LEFT-RIGHT		19	
296738	Junction Box R-L	\$2,120.73	PRE-WIRED JUNCTION BOX FOR STANDARD GAS TRAINS. RIGHT-LEFT		19	

Karl Dungs, Inc. is an ISO 9001:2015 and PED 2014/68/EU [Pressure Equipment Directive] design and manufacturing facility for your gas train system requirements. Our production capabilities can handle systems up to 10" diameter [DN 250] and up to 100 Psig, including wiring to junction boxes.

Specific solutions studied on request.



Model / Technical Data	Unit List	Quantity
Assembly fee for modular DMV & MBE systems for U.S. & Canadian installation. Includes DMV 701/702/703 or MBE (body &actuators), FRI, Pressure Switches, VPS & basic mounting hardware accessories (visual indicator, CPI, adaptors, test nipples, coil swaps, lights and spring installation included).	\$415.62	Each
For other component additions contact Customer Service (763-582-1700) for price quote.		
Drawing: 3D .iges or .ipt format \$150 only applies to Modular systems, other drawings, P.O.R.		
Reference DMV 701/702/703 Series Configuration Sheet p. 170.2 Reference DMV 704/525/5 Series Configuration Sheet p. 170.3 Configuration sheet for MB-E Systems MB-E Flanged p. 170.4 Configuration sheet for MB-E Systems MB-E VB-2L - VB-50 p. 170.5		
Assembly & engineering fee for modular DMV or MBE configuration for Europe, Russia, Australia, Asia and all other gas consuming regions. Includes 3D drawing in .iges or .ipt format. P.O.R.		
Reference Gas Train Request p. 170.6		



Manufacturing & engineering fee for Engineered Gas Systems to meet the requirements of most global installation standards and gas consuming countries. Includes 3D drawing in .iges or .ipt format. P.O.R.



[Reference Gas Train Quote Request p. 170.7](#)

Kitting of parts, Labeling P.O.R.

Factory Installed Spring Changes:
Regulators up to 2" : \$25.00 per regulator, plus spring
Regulators over 2" : \$40.00 per regulator, plus spring

Configuration for DMV 701/702/703 Series

Customer's Name:

KDI Shipment Number:

Flow Direction

- ☐ Left to Right
☐ Right to Left

Low Switch

- ☐ FRI Front (STANDARD with regulator)
☐ Upstream flange (STANDARD if no regulator)
☐ Mount to 1/4" NPT adapter (225047)
☐ Port 1 of DMV

High Switch

- ☐ DMV Downstream flange (STANDARD)
☐ DMV Port 3 Front (Port 3 adapter required 273777)
☐ Mount to 1/4" NPT adapter (225047)

Visual Indicator (266949)

- ☐ Valve 1 (STANDARD)
☐ Valve 2

VPS

- ☐ Front (STANDARD)
☐ Back (High Switch on Port 3 Front)

DMK/DMA

- ☐ Mount to downstream Flange (Standard)
☐ Mount to DMK only
☐ Ship loose, unassembled

1/4" NPT Adapter (225047)

- ☐ Upstream flange (STANDARD)
☐ Front side (port 1) of DMV
☐ Back side (port 1) of DMV
☐ Downstream Flange of DMV

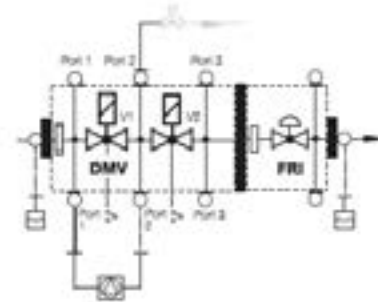
Other (Specify location!)

- ☐ 1/2" NPT adapter (STANDARD on front) (225043)
☐ Install Spring Into Regulator
☐ Spring for Regulator (Ship Loose)
☐ Test Nipple (STANDARD back ports 2 and 3) (219008)
☐ Test Nipple Ship Loose (219008)
☐ CPI as end switch (not POC) location: V1 or V2?

Additional Items requiring creation of PN at order entry

- ☐ Drip leg (Always on inlet side – Not painted)
☐ Inlet ball valve (Locking version)
☐ Inlet ball valve (Non-Locking)
☐ Outlet ball valve (Non-Locking)
☐ Pressure Gauge (Inlet) – Requires 225047
☐ Pressure Gauge (Outlet) – Requires 225047

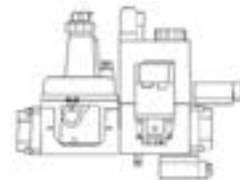
This gas system will be manufactured
as per the Configuration Sheet for Gas Systems.

Special Instructions**Ports Diagram****Examples**

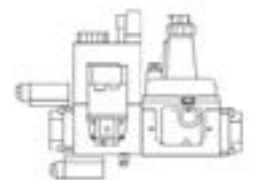
Flow directions

Left-to-Right

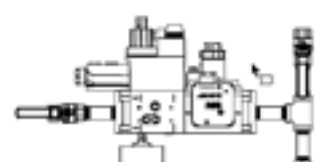
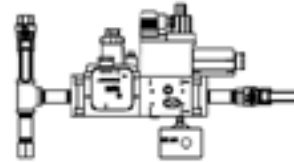
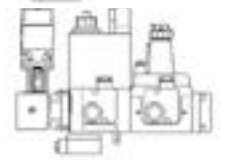
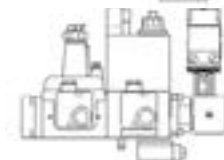
Right-to-Left



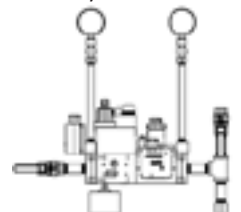
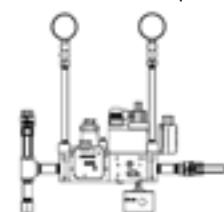
STANDARD with VPS



DMK butterfly valve



Drip Leg and ball valves Installed
Requires part number creation at order entry



Drip Leg ball valves and gauges Installed
Requires part number creation at order entry

Submitted and acknowledged by: _____

Date: _____

Assembler: _____

Checker: _____

Configuration for 704/525/5... Series

Customer's Name:

DUSA Part/Ship Number:

Special Instructions**Flow Direction**

- ☐ Left to Right
☐ Right to Left

High Switch

- ☐ Front Port 5 (Standard)
☐ Back Port 5
☐ Port 7 (Outlet Flange – DMV 525/704 Only)

Low Switch

- ☐ Front Port 1 (Standard)
☐ Back Port 1
☐ Port 6 (Inlet Flange – DMV 525/704 Only)

CPI (Can be mounted on both valves)

- ☐ Valve 2 (STANDARD)
☐ Valve 1

Visual Indicator (Can be mounted on both valves) 266949

- ☐ Valve 1 (STANDARD)
☐ Valve 2

VPS (Fitted on port 2-3)

- ☐ Front (STANDARD)
☐ Back

1" NPT Vent Line Adapter (243760)

- ☐ Back port 4+5 (STANDARD)
☐ Front Port 4+5

1/2" NPT Pilot Line Adapter (225043)

- ☐ Back port 4+5 (STANDARD)
☐ Front Port 4+5

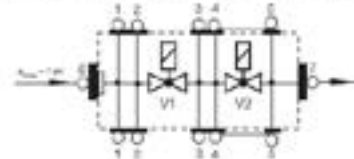
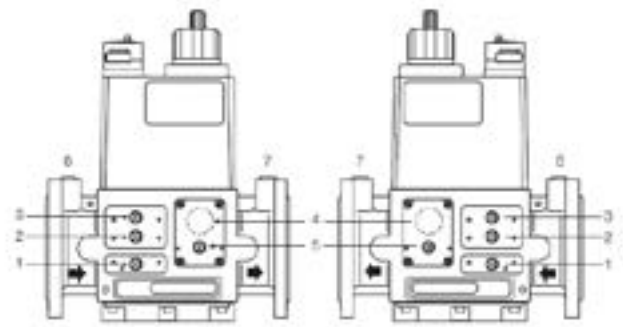
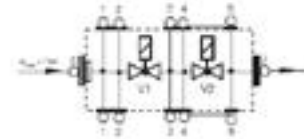
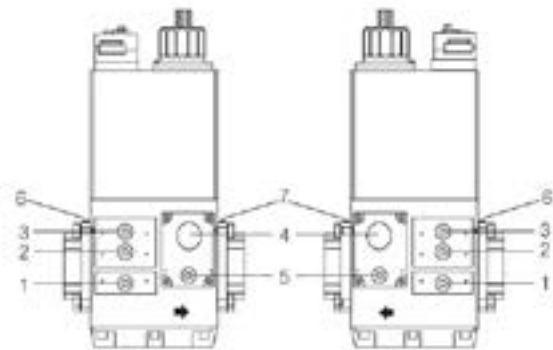
Other (Specify location!)

- ☐ Install Spring into Regulator
☐ Spring for Regulator (Ship Loose)
☐ Test Nipples (STANDARD on back 3 and 5) (219008)
☐ Test Nipple Ship Loose (219008)
☐ 1/2" BSP/NPT adapter on FRS vent port (231945)

This gas system will be manufactured
as per the Configuration Sheet for Gas Systems.

Showing Valves Ports

Flow directions



Submitted and acknowledged by: _____

Date: _____

Assembler: _____

Checker: _____

Configuration for MB-E Systems

Customer's Name:

Part Number:

Flow Direction

- ☐ Left to Right
☐ Right to Left

Actuator Type VD1

- ☐ VD-V (Open/close only – w/Visual Indication)
☐ VD-R (Open/close w/Pressure Regulation – w/VI)
☐ VD-V-POC (Open/close – w/ POC and Visual Indication)
☐ VD-R-POC (Open/close w/Pressure Regulation – w/POC & VI)

Actuator Type VD2

- ☐ VD-V (Open/close only – w/Visual Indication)
☐ VD-R (Open/close w/Pressure Regulation – w/VI)
☐ VD-V-POC (Open/close – w/ POC and Visual Indication)
☐ VD-R-POC (Open/close w/Pressure Regulation – w/POC & VI)

Low Switch

- ☐ Front (P1R1)
☐ Back (P1L1)

High Switch

- ☐ Front (P2R)
☐ Back (P2)

VPS

- ☐ Front (STANDARD – Pm1R1-P1R2)
☐ Back (PmL1-P1L2)

Pressure Regulation (Also Requires Cable 276911)

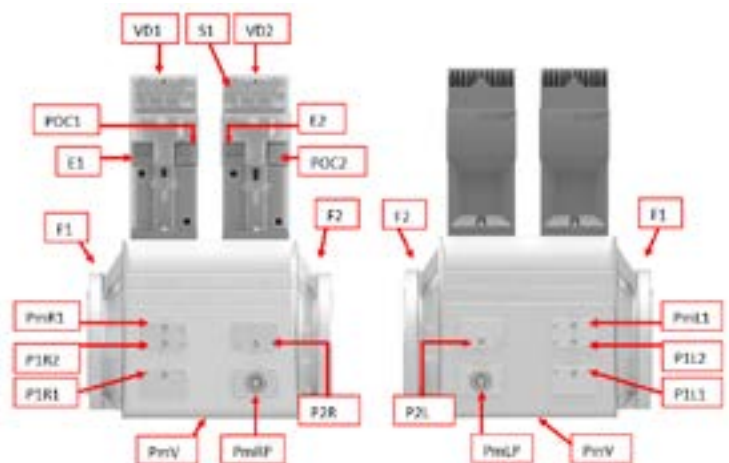
- ☐ PS-50/200 (8-200"WC)
☐ PS-10/40 (2-40"WC)
☐ PS-0 (-2-+2"WC)
☐ None

Other (Specify location!)

- ☐ Install Pressure Sensor on port F2 (Not available for PS-0)
☐ Pressure Sensor shipped Loose
☐ Test Nipple (STANDARD ports PmL1 – P1L2) (219008)
☐ Test Nipple Ship Loose (219008)
☐ Vent Connection Flange (0.5" to 2"NPT – PmV)

Additional Items requiring creation of PN at order entry

- ☐ Pressure Gauge (Inlet) – Requires 225047
☐ Pressure Gauge (Outlet) – Requires 225047

Special Instructions**Ports Diagram**

Submitted and acknowledged by: _____

Date: _____

Assembler: _____

Checker: _____

This gas system will be manufactured
as per the Configuration Sheet for Gas Systems.

Configuration for MB-E Systems

Customer's Name:

Part Number:

Flow Direction

- ☐ Left to Right
☐ Right to Left

Actuator Type VD1

- ☐ VD-V (Open/close only – W/Visual Indication)
☐ VD-R (Open/close Pressure Regulation – W/VI)
☐ VD-V-POC (Open/close – W/ POC and Visual Indication)
☐ VD-R (Open/close Pressure Regulation – W/POC & VI)

Special Instructions**Actuator Type VD2**

- ☐ VD-V (Open/close only – W/Visual Indication)
☐ VD-R (Open/close Pressure Regulation – W/VI)
☐ VD-V-POC (Open/close – W/ POC and Visual Indication)
☐ VD-R (Open/close Pressure Regulation – W/POC & VI)

Low Switch

- ☐ Front (P1R)
☐ Back (P1L)
☐ Inlet Flange (F1)
☐ Inlet Flange adapter (F1 – Requires 225047)

High Switch

- ☐ Outlet Flange (F2)

VPS

- ☐ Front (STANDARD – PmR-P1R)
☐ Back (PmL-P1L)

Pressure Regulation (Also Requires Cable 276911)

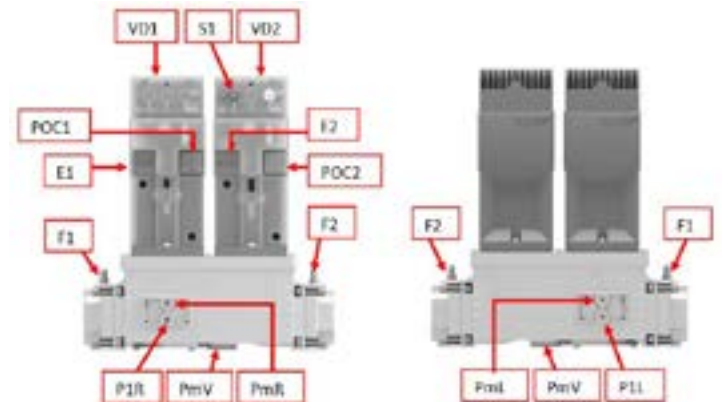
- ☐ PS-50/200 (8-200"WC)
☐ PS-10/40 (2-40"WC)
☐ PS-0 (-2-+2"WC)
☐ None

Other (Specify location!)

- ☐ Install Pressure Sensor on port F2 (Not available for PS-0) Pressure Sensor shipped Loose
☐ Test Nipple (STANDARD ports PmL – F2) (219008)
☐ Test Nipple Ship Loose (219008)
☐ Vent Connection Flange (0.5" to 1"NPT – PmV)
☐ DMS 2" NPT 296997 (F2)– Remove need for outlet flange

Additional Items requiring creation of PN at order entry

- ☐ Pressure Gauge (Inlet) – Requires 225047
☐ Pressure Gauge (Outlet) – Requires 225047

Ports Diagram

This gas system will be manufactured
as per the Configuration Sheet for Gas Systems.

Submitted and acknowledged by: _____

Date: _____

Assembler: _____

Checker: _____

Druckbereiche

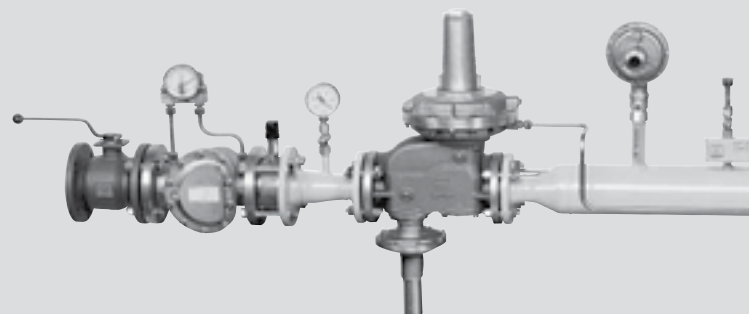
Low pressure range	ND: $p_1 \leq 100 \text{ mbar}$
Medium pressure range	MD: $100 \text{ mbar} < p_1 \leq 1 \text{ bar}$
High pressure range	HD: $p_1 > 1 \text{ bar}$

Nominal widths

Threaded joint:	Rp 1/2 - Rp 2
Flanged joint:	DN 25 - DN 250

Components and functional sections of a GRMS**Pressure regulation part**

Ball valve
Filter
Pressure regulators



Our systems can be equipped with other devices, sub-assemblies and functional parts to meet specific application requirements.

Volume flow measurement part

Gas meter
Volume corrector (converts operating volume flow into standard volume flow).

**Safety part**

Solenoid valves
Bypass valve
Ignition gas valve
Valve inspection systems
Pressure monitor
Closed position signal contact

**Data for gas train calculation****Gas type**

Density

[kg/m³]**Calorific value, $H_{u,n}$**

[kWh/m³]**Min. Input pressure $p_{e,min.}$**

[bar, mbar]

Max. Input pressure $p_{e,max.}$

[bar, mbar]

Outlet pressure at the end of the GRMS

[bar, mbar]

Temperatur range

[°C]

Min. gas volume flow

[m³/h]**Max. gas volume flow**

[m³/h]**Electrical voltage**

[V]

Electrical degree of protection

[IP]

Other data

Date of Request:	Requested by:	Qty requested:	Page 1 of 2
Customer:			
Customer details for additional technical information requests:	Contact Name		
	Email address:		
	Phone Number:		
Project Reference:			
Shipping State:			
Project timeline:	For Quotation:	For delivery:	

Data for Gas Trains quoting:

Install site : Country + State / Province				
Reference of similar manufactured train/business				
Construction code (Ex. NFPA 86, 37, EN746-2, NFPA87, CSA B149.1, B149.3, B149.6...) Note : If CSA approval required specify which one and if CRN is required and for which province				
Gas type (Ex. NG, Propane, Butane, Landfill,...)				
Gas specifications : density / composition / gas analysis if available				
Maximum inlet pressure				
Minimum inlet pressure				
Outlet Pressure Required				
Allowable Max DP				
Temperature Range (Gas and ambient)				
Gas flow to be handled by the train				
Installation (Indoor/Outdoor) Note: Temperature range is critical for Outdoor Installation	Indoor	Indoor Washdown	Outdoor (Unrestricted)	Outdoor (Under Weather Cover)
NEMA/IP Rating	(Unrestricted)			

<i>Dungs supplied Pilot Line (Yes / No)</i>				
<i>Specific requirements: excluded parts / additional required parts...</i> <i>Regulator, VLA (adapter only), NOV (vent valve), VPS, Other</i>				
<i>Connections</i>	Flanged ANSI	NPT	Flanged DIN	RP
<i>Preferred Pipe size</i>				
Voltage	220/240	110/120	24	Other
<i>Frequency</i>	AC		DC	
<i>Pipe type: Steel / Stainless Steel / Paint / Unpainted</i> <i>Note: Quicker lead time with Stainless and very low cost difference</i>				
<i>Additional information</i>				
Please attach any application/gas consuming item specification or any other related specifications (Paint, piping,...)				

Date: Click or tap to enter a date.	RMA Number: Customer RMA#:	Original Cust. PO#: D.US SO#-Delivery#:	D.US CSR Initials: D.US RSM Initials:
Company Acct #: Company Name:	Customer Contact(s): Customer Email(s):	Customer Address: Customer Phone #	PLEASE MARK THE OUTSIDE OF YOUR BOX WITH YOUR RMA#, ENCLOSE THIS FORM WITH YOUR RETURN AND SHIP TO: Karl Dungs, Inc RMA # : 3890 Pheasant Ridge Dr. NE Suite 150 Blaine, MN 55449

NOTE:

1. Refer to WARRANTY POLICY in latest Price-book.
2. Return Material Authorization (RMA) is subject to cancellation if the product is not received at Karl Dungs, Inc, within 30 days of RMA issue.
3. Purchaser assumes all carrier charges and responsibility for damages in transit to Karl Dungs, Inc, unless preauthorized by Karl Dungs, Inc.
4. When returning a control, it shall be returned in its entirety (i.e. it shall contain all components of the BOM of the part number).
5. For returning a valve train or a control of a valve train built by Karl Dungs, Inc, contact customer service.
6. When an RMA is issued for returning a mis-shipped part, a no-charge replacement part may be shipped. In such cases, if the original part is not returned, an invoice for the original part or the no-charge replacement part will be issued.
7. A minimum 15% Restock Fee will be assessed for accommodation if the return product is new, unused, and in its original container free of markings, otherwise a higher fee may be applied.
8. Repairs require an approved price quote.
9. A \$50 evaluation fee may apply if the product is not under warranty. NOTE: The scope of this evaluation is limited to lower level causes. This evaluation does not apply to high level causes (core, root cause analysis), which requires an engineering review and perhaps additional fees.

D.US Part #	Cust. Part #, if applicable	Qty	D.US Part Description	Explanation of RMA
				Return Code: Choose an item. Explanation of Return: • Min. 15% Restock Fee Applies: Choose an item. • If no Restock Fee, new D.US SO# or reason: • Order Entry Date Click or tap to enter a date. • Order Invoiced Date(s): Click or tap to enter a date. • Date Code, if known: • Serial #, if known: • When was defect discovered: Choose an item. • Line or Field reject: Choose an item. • Date of Install: • Other: • Account: • RMA#-Cust.: 163XXX-cust name

Obsolete Parts

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
066191	GF 505 FILTER	297617	GF 1005 FILTER
066209	GF 507 FILTER	297473	GF 1007 FILTER
066217	GF 510 FILTER	297526	GF 1010 FILTER
066225	GF 515 FILTER	296690	GF 1015 FILTER
066233	GF 520 FILTER	228192	GF 1020 FILTER
226347	MVDLE 203/5		CONTACT CUSTOMER SERVICE
222077	MVDLE 503/5	305383	MVDLE 503/5-230VAC-EC01-IP54
222078	MVDLE 505/5		CONTACT CUSTOMER SERVICE
222080	MVDLE 510/5		CONTACT CUSTOMER SERVICE
266965	GAO-A4-4-2GOLD		CONTACT CUSTOMER SERVICE
266961	GMH-A4-4-4GOLD		CONTACT CUSTOMER SERVICE
266962	GMH-A4-4-6GOLD		CONTACT CUSTOMER SERVICE
266963	GML-A4-4-4GOLD		CONTACT CUSTOMER SERVICE
215-230A	GW 3 A2	266996	GW 3 A5
215-231A	GW 1- A2	266980	GW 10 A5
215-232A	GW 5- A2	266981	GW 50 A5
215-234A	GW 150 A2	266982	GW 150 A5
215-236A	GW 500 A2	266989	GW 500 A5
172-680A	GW 3A4	266991	GW 3 A6
172-690A	GW 10 A4	266992	GW 10 A6
266880	GW 50 A4	266993	GW 50 A6
157-050A	GW 150 A4	266994	GW 150 A6
157-060A	GW 500 A4	266995	GW 500 A6
266908	AA-A1-0-4		CONTACT CUSTOMER SERVICE
266907	AA-A1-3-2		CONTACT CUSTOMER SERVICE
266905	AA-A1-3-3		CONTACT CUSTOMER SERVICE
266909	AA-A1-3-4		CONTACT CUSTOMER SERVICE
216-864A	AA-A1-0-6		CONTACT CUSTOMER SERVICE
216-864CA	AA-A1-4-6		CONTACT CUSTOMER SERVICE
266939	AA-C2-4-1		CONTACT CUSTOMER SERVICE
266940	AA-C2-4-2		CONTACT CUSTOMER SERVICE
266941	AA-C2-4-3		CONTACT CUSTOMER SERVICE
269227	EMA-405		CONTACT CUSTOMER SERVICE
267208	EMP-453-2		CONTACT CUSTOMER SERVICE
267212	EMP-454-2		CONTACT CUSTOMER SERVICE
225816	COVER FOR AA-A1-X		CONTACT CUSTOMER SERVICE

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
228731	COVER FOR AA-C2		CONTACT CUSTOMER SERVICE
217102	STRAIN RELIEF FOR AA-A1		CONTACT CUSTOMER SERVICE
269236	AM-332-102-1		CONTACT CUSTOMER SERVICE
222637	GF40040/3	279853	GF 60040/3
218162	GF40125	279858	GF 60125/3
218163	GF40150	279859	GF 60150/3
266896	K01/1	266968	CPI 400
48060-18	VBS-750		CONTACT CUSTOMER SERVICE
220798	KNOCK OUT PLUG		CONTACT CUSTOMER SERVICE
240321	SV-D 505		CONTACT CUSTOMER SERVICE
240324	SV-D 507		CONTACT CUSTOMER SERVICE
240326	SV-D 510		CONTACT CUSTOMER SERVICE
240-328NP	SV-D 512		CONTACT CUSTOMER SERVICE
243820	SV-D 515		CONTACT CUSTOMER SERVICE
240332	SV-D 520		CONTACT CUSTOMER SERVICE
240334	SV-DLE 505		CONTACT CUSTOMER SERVICE
240337	SV-DLE 507		CONTACT CUSTOMER SERVICE
240-339NP	SV-DLE 510		CONTACT CUSTOMER SERVICE
240341	SV-DLE 512		CONTACT CUSTOMER SERVICE
240-821NP	SV-DLE 515		CONTACT CUSTOMER SERVICE
240-345NP	SV-DLE 520		CONTACT CUSTOMER SERVICE
243-477NP	SV-D 505		CONTACT CUSTOMER SERVICE
243-462NP	SV-D 507		CONTACT CUSTOMER SERVICE
243-483NP	SV-D 510		CONTACT CUSTOMER SERVICE
243-846NP	SV-D 512		CONTACT CUSTOMER SERVICE
243840	SV-D 515		CONTACT CUSTOMER SERVICE
243-492NP	SV-D 520		CONTACT CUSTOMER SERVICE
243-478NP	SV-DLE 505		CONTACT CUSTOMER SERVICE
243-481NP	SV-DLE 507		CONTACT CUSTOMER SERVICE
243-484NP	SV-DLE 510		CONTACT CUSTOMER SERVICE
243-487NP	SV-DLE 512		CONTACT CUSTOMER SERVICE
243-841NP	SV-DLE 515		CONTACT CUSTOMER SERVICE
243-493NP	SV-DLE 520		CONTACT CUSTOMER SERVICE
243051	SV-D 507		CONTACT CUSTOMER SERVICE
243072	SV-D 510		CONTACT CUSTOMER SERVICE
243834	SV-D 515		CONTACT CUSTOMER SERVICE
243-081NP	SV-D 520		CONTACT CUSTOMER SERVICE
243067	SV-DLE 505		CONTACT CUSTOMER SERVICE
243-052NP	SV-DLE 507		CONTACT CUSTOMER SERVICE
TBD	SV-DLE 510		CONTACT CUSTOMER SERVICE

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
243-835NP	SV-DLE 515		CONTACT CUSTOMER SERVICE
243-082NP	SV-DLE 520		CONTACT CUSTOMER SERVICE
243066	SV-D 505		CONTACT CUSTOMER SERVICE
211225	VDK 200A S02		CONTACT CUSTOMER SERVICE
216352	VDK 200A S02	253734	VDK 200A S06
266903	VDK 200A W/BRAD HARRISON	267131	VDK 200A S06 W/BRAD HARRISON
267356	STRAIN RELIEF FOR DIN CONN		CONTACT CUSTOMER SERVICE
222638	GF40050/3	279854	GF 60050/4
222639	GF40065/3	279855	GF 60065/4
222640	GF40080/3	279856	GF 60080/4
222641	GF40100/3	279857	GF 60100/4
256409	GF40065/4	279855	GF 60065/4
256408	GF40050/4	279854	GF 60050/4
256410	GF40080/4	279856	GF 60080/4
256411	GF40100/4	279857	GF 60100/4
241000	MVD 505/604		CONTACT CUSTOMER SERVICE
241001	MVD 507/604		CONTACT CUSTOMER SERVICE
241002	MVD 510/604		CONTACT CUSTOMER SERVICE
241003	MVD 512/604		CONTACT CUSTOMER SERVICE
241004	MVD 515/604		CONTACT CUSTOMER SERVICE
241016	MVD 520/604		CONTACT CUSTOMER SERVICE
241005	MVD 525/604		CONTACT CUSTOMER SERVICE
241006	MVD 530/604		CONTACT CUSTOMER SERVICE
108597	MVDLE 203/5	305383	MVDLE 503/5-230VAC-EC01-IP54
240992	MVDLE 205/604		CONTACT CUSTOMER SERVICE
240993	MVDLE 207/604		CONTACT CUSTOMER SERVICE
240994	MVDLE 210/604		CONTACT CUSTOMER SERVICE
240995	MVDLE 212/604		CONTACT CUSTOMER SERVICE
240996	MVDLE 215/604		CONTACT CUSTOMER SERVICE
240997	MVDLE 220/604		CONTACT CUSTOMER SERVICE
240998	MVDLE 225/604		CONTACT CUSTOMER SERVICE
240999	MVDLE 230/604		CONTACT CUSTOMER SERVICE
269283	GAUGE 0-160"WC	267778	GAUGE 0-5 PSI 1/4"
267423	GAUGE 0-235"WC		CONTACT CUSTOMER SERVICE
255973	DMV 50025		CONTACT CUSTOMER SERVICE
256446	DMV 50025		CONTACT CUSTOMER SERVICE
070565	SO CORD STRAIN RELIEF PG11	268347 268348	CABLE GLAND PG11 BLACK LOCK-UP NUT PG11 BLACK
214276	FRI 705/707 REPLACEMENT FILTER	230440	FRI REPLACEMENT FILTER/STRAINER
214525	FRII 710/712 REPLACEMENT FILTER	230441	FRI REPLACEMENT FILTER/STRAINER

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
233116	COVER FOR PRESSURE SWITCH	267181	COVER FOR PRESSURE SWITCH
228732	COVER FOR PRESSURE SWITCH	267182	COVER FOR PRESSURE SWITCH
209319	NEON LIGHT 220VAC	231773	NEON LIGHT 220VAC
149980	NEON LIGHT 220VAC	231773	NEON LIGHT 220VAC
217897	AIR DUCT MOUNT KIT	258247	AIR DUCT MOUNT KIT
50002	STRAIN REIEF FOR PRESS. SWTCH	268347 268348	CABLE GLAND PG11 BLACK LOCK-UP NUT PG11 BLACK
224976	HYDRAULIC BRAKE	224457	HYDRAULIC BRAKE
43118-4	CP-8391-703 FOR HIGH TORQUE	267218	CONTACT CUSTOMER SERVICE
267218	CP-8391-716 FOR HIGH TORQUE		CONTACT CUSTOMER SERVICE
267236	ADDA-39-010	269220	ADDA-902-5
269219	ADDA-245		CONTACT CUSTOMER SERVICE
269245	AM-773		CONTACT CUSTOMER SERVICE
096784	KH 1/4"	260768	BALL VALVE 1/4" RP
098434	KH 1"	260774	BALL VALVE 1" RP
098459	KH 2"	260778	BALL VALVE 2" RP
083386	G 1/8 STRAIGHT ADAPTER	246744	ADPT THREAD/HOSE STRAIGHT R 1/8
269641	MPA 4111 - 115V	301943	MPA 4112 - 115V
269642	MPA 4111 - 230V	301944	MPA 4112 - 230V
269643	MPA 4111 W/EM 2/4 - 115V	301945	MPA 4112 W/EM 2/4 - 115V
269644	MPA 4111 W/EM 2/4 - 230V	301946	CONTACT CUSTOMER SERVICE
269651	MPA 4112 EM 2/6 - 230V - EM2/6	301948	MPA 4112 230 VAC EM2/6
270130	MPA 4122 - 230V - EM2/4	301949	MPA 4112 230 VAC EM2/4
270131	MPA 4122 - 115V - EM2/4	301950	MPA 4112 115 VAC EM2/4
270132	MPA 4122 - 230V - EM2/6	301951	MPA 4112 230 VAC EM2/6
270133	MPA 4122 - 115V - EM2/6	301952	MPA 4112 115 VAC EM2/6
270201	MPA 4122 - 115V	301953	MPA 4122 - 115V
270202	MPA 4122 - 230V	301954	MPA 4122 - 230V
290030	MPA 4112PF - 115V	301955	MPA 4112PF - 115V
290032	MPA 4112PF - 230V	301956	MPA 4112PF - 230V
290033	MPA 4112PF - 115V EM2/4	301957	MPA 4112PF - 115V EM2/4
290034	MPA 4112PF - 230V EM2/4	301958	MPA 4112PF - 230V EM2/4
290035	MPA 4122PF - 115V	301959	MPA 4122PF - 115V
290036	MPA 4122PF - 230V	301960	MPA 4122PF - 230V
290037	MPA 4122PF - 115V EM2/4	301961	MPA 4122PF - 115V EM2/4
290038	MPA 4122PF - 230V EM2/4	TBD	MPA 4122PF - 230V EM2/4
269645	MPA 4112 - 115V	301943	MPA 4112 - 115V
269646	MPA 4112 - 230V	301944	MPA 4112 - 230V
269647	MPA 4112 - 115V EM2/4	301945	MPA 4112 - 115V EM2/4
269648	MPA 4112 - 230V EM2/4	301946	MPA 4112 - 230V EM2/4

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
269650	MPA 4112 - 115V EM2/6	301947	MPA 4112 - 115V EM2/6
274754	DMA 50 A 03 (115V -DP-)	301624	FCD A 01-15 S4 AC
274789	DMA 50 A 03 (115V -S-)	301624	FCD A 01-15 S4 AC
274769	DMA 50 A 03 (230V -DP-)	301624	FCD A 01-15 S4 AC
274804	DMA 50 A 03 (230V -S-)	301624	FCD A 01-15 S4 AC
274757	DMA 100 A 06 (115V -DP-)	301624	FCD A 01-15 S4 AC
274792	DMA 100 A 06 (115V -S-)	301624	FCD A 01-15 S4 AC
274772	DMA 100 A 06 (230V -DP-)	301624	FCD A 01-15 S4 AC
274807	DMA 100 A 06 (230V -S-)	301624	FCD A 01-15 S4 AC
274682	DMA 50 A 06 (115V -D-)	301624	FCD A 01-15 S4 AC
274706	DMA 50 A 06 (115V -DP-)	301624	FCD A 01-15 S4 AC
274730	DMA 50 A 06 (115V -S-)	301624	FCD A 01-15 S4 AC
274694	DMA 50 A 06 (230V -D-)	301624	FCD A 01-15 S4 AC
274718	DMA 50 A 06 (230V -DP-)	301624	FCD A 01-15 S4 AC
274742	DMA 50 A 06 (230V -S-)	301624	FCD A 01-15 S4 AC
274760	DMA 150 A 15 (115V -DP-)	301623	FCD A 01-15 S2 AC
274795	DMA 150 A 15 (115V -S-)	301623	FCD A 01-15 S2 AC
274775	DMA 150 A 15 (230V -DP-)	301623	FCD A 01-15 S2 AC
274810	DMA 150 A 15 (230V -S-)	301623	FCD A 01-15 S2 AC
274685	DMA 50 A 15 (115V -D-)	301619	FCD A 00-15 S2 AC
274709	DMA 50 A 15 (115V -DP-)	301619	FCD A 00-15 S2 AC
274733	DMA 50 A 15 (115V -S-)	301619	FCD A 00-15 S2 AC
274697	DMA 50 A 15 (230V -D-)	301619	FCD A 00-15 S2 AC
274721	DMA 50 A 15 (230V -DP-)	301619	FCD A 00-15 S2 AC
274745	DMA 50 A 15 (230V -S-)	301619	FCD A 00-15 S2 AC
274763	DMA 200 A 30 (115V -DP-)	293916	FCD A 01-15 AC
274798	DMA 200 A 30 (115V -S-)	293916	FCD A 01-15 AC
274778	DMA 200 A 30 (230V -DP-)	293916	FCD A 01-15 AC
274813	DMA 200 A 30 (230V -S-)	293916	FCD A 01-15 AC
274688	DMA 50 A 30 (115V -D-)	293334	FCD A 00-15 AC
274712	DMA 50 A 30 (115V -DP-)	293334	FCD A 00-15 AC
274736	DMA 50 A 30 (115V -S-)	293334	FCD A 00-15 AC
274700	DMA 50 A 30 (230V -D-)	293334	FCD A 00-15 AC
274724	DMA 50 A 30 (230V -DP-)	293334	FCD A 00-15 AC
274748	DMA 50 A 30 (230V -S-)	293334	FCD A 00-15 AC
279709	DMA 150 A 60 (230V -DP-) RIGID COUP	293916	FCD A 01-15 AC
277084	DMA 150 A 60 DP (230V)	293916	FCD A 01-15 AC
274766	DMA 300 A 60 (115V -DP)	293916	FCD A 01-15 AC
274801	DMA 300 A 60 (115V -S-)	293916	FCD A 01-15 AC
274786	DMA 300 A 60 (230V -DP-)	293916	FCD A 01-15 AC

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
274816	DMA 300 A 60 (230V -S-)	293916	FCD A 01-15 AC
274691	DMA 50 A 60 (115V -D-)	293334	FCD A 00-15 AC
274715	DMA 50 A 60 (115V -DP-)	293334	FCD A 00-15 AC
274739	DMA 50 A 60 (115V -S-)	293334	FCD A 00-15 AC
274703	DMA 50 A 60 (230V -D-)	293334	FCD A 00-15 AC
274727	DMA 50 A 60 (230V -DP-)	293334	FCD A 00-15 AC
279708	DMA 50 A 60 (230V -DP-) RIGID COUPLE	293334	FCD A 00-15 AC
274751	DMA 50 A 60 (230V -S-)	293334	FCD A 00-15 AC
226239	DMA 30 P 230/03 0 L IP 40	293905	FCD A 00-10 AC
226240	DMA 40 P 230/02 3 L IP 40	293905	FCD A 00-10 AC
238810	DMA 40 P 230/02 4 L IP 40	293905	FCD A 00-10 AC
252721	DMA 30 Q 230/10 0 L IP 54	293334	FCD A 00-15 AC
275437	DMV-D 5065/11 100VAC		CONTACT CUSTOMER SERVICE
275927	DMV-DLE 5065/11 100VAC		CONTACT CUSTOMER SERVICE
256298	DMV 5065/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256323	DMV 5065/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
257298	DMV 5065/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
222727	DMV-D 5065/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
226067	DMV-D 5065/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
256299	DMV-D 5065/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256324	DMV-D 5065/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
258307	DMV-D 5065/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
226102	DMV-DLE 5065/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
256300	DMV-DLE 5065/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256325	DMV-DLE 5065/11 ECO AC 110V IP 54-VITON		CONTACT CUSTOMER SERVICE
258308	DMV-DLE 5065/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258325	DMV-DLE 5065/612 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
223173	DMV-D 5065/11 200VAC		CONTACT CUSTOMER SERVICE
256293	DMV 5065/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256319	DMV 5065/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
243099	DMV 5065/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
257738	DMV 5065/12 AC 230 V IP 54 -VITON-		CONTACT CUSTOMER SERVICE
221691	DMV-D 5065/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
224382	DMV-D 5065/11 AC 220-240 V IP 54 .		CONTACT CUSTOMER SERVICE
241349	DMV-D 5065/11 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
256296	DMV-D 5065/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256320	DMV-D 5065/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
243100	DMV-D 5065/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
221692	DMV-DLE 5065/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
224925	DMV-DLE 5065/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
256297	DMV-DLE 5065/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256321	DMV-DLE 5065/11 ECO AC 230V IP 54-VITON		CONTACT CUSTOMER SERVICE
245719	DMV-DLE 5065/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
256313	DMV 5065/11 ECO DC 24V IP 54		CONTACT CUSTOMER SERVICE
256326	DMV 5065/11 ECO DC 24V IP 54-VITON		CONTACT CUSTOMER SERVICE
246838	DMV 5065/12 DC 24-28V IP 54		CONTACT CUSTOMER SERVICE
258309	DMV 5065/632 ECO DC 24V NBR		CONTACT CUSTOMER SERVICE
222726	DMV-D 5065/11 DC 24- 28 V IP 54		CONTACT CUSTOMER SERVICE
226069	DMV-D 5065/11 DC 24-28 V IP 54		CONTACT CUSTOMER SERVICE
222728	DMV-DLE 5065/11 DC 24- 28 V IP 54		CONTACT CUSTOMER SERVICE
226103	DMV-DLE 5065/11 DC 24-28 V IP 54		CONTACT CUSTOMER SERVICE
275438	DMV-D 5080/11 100VAC		CONTACT CUSTOMER SERVICE
256359	DMV 5080/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256473	DMV 5080/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
257220	DMV 5080/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258328	DMV 5080/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
222160	DMV-D 5080/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
226070	DMV-D 5080/11 AC 110-120V IP54		CONTACT CUSTOMER SERVICE
256360	DMV-D 5080/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256476	DMV-D 5080/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
258311	DMV-D 5080/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258329	DMV-D 5080/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
226104	DMV-DLE 5080/11 AC 110-120V IP54		CONTACT CUSTOMER SERVICE
256361	DMV-DLE 5080/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256479	DMV-DLE 5080/11 ECO AC 110V IP 54-VITON		CONTACT CUSTOMER SERVICE
258312	DMV-DLE 5080/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258330	DMV-DLE 5080/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
223171	DMV-D 5080/11 200VAC		CONTACT CUSTOMER SERVICE
256356	DMV 5080/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256463	DMV 5080/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
244427	DMV 5080/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
257740	DMV 5080/12 AC 230 V IP 54 -VITON-		CONTACT CUSTOMER SERVICE
221693	DMV-D 5080/11 AC 230V IP 54		CONTACT CUSTOMER SERVICE
224383	DMV-D 5080/11 AC 230V IP 54		CONTACT CUSTOMER SERVICE
241350	DMV-D 5080/11 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
256357	DMV-D 5080/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256466	DMV-D 5080/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
244294	DMV-D 5080/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
221694	DMV-DLE 5080/11 AC 230V IP 54		CONTACT CUSTOMER SERVICE
224926	DMV-DLE 5080/11 AC 230V IP 54		CONTACT CUSTOMER SERVICE

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
266326	DMV-DLE 5080/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
256358	DMV-DLE 5080/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256470	DMV-DLE 5080/11 ECO AC 230V IP 54-VITON		CONTACT CUSTOMER SERVICE
245686	DMV-DLE 5080/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
256362	DMV 5080/11 ECO DC 24V IP 54		CONTACT CUSTOMER SERVICE
256485	DMV 5080/11 ECO DC 24V IP 54-VITON		CONTACT CUSTOMER SERVICE
246839	DMV 5080/12 DC 24-28V IP 54		CONTACT CUSTOMER SERVICE
258313	DMV 5080/632 ECO DC 24V NBR		CONTACT CUSTOMER SERVICE
258331	DMV 5080/632 ECO DC 24V VITON		CONTACT CUSTOMER SERVICE
222161	DMV-D 5080/11 DC 24- 28 V IP 54		CONTACT CUSTOMER SERVICE
226072	DMV-D 5080/11 DC 24-28V IP54		CONTACT CUSTOMER SERVICE
245200	DMV-D 5080/11 DC 24- 28 V IP 54 VITON		CONTACT CUSTOMER SERVICE
222159	DMV-DLE 5080/11 DC 24- 28 V IP 54		CONTACT CUSTOMER SERVICE
226106	DMV-DLE 5080/11 DC 24-28V IP 54		CONTACT CUSTOMER SERVICE
254186	DMV 5100/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256474	DMV 5100/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
257256	DMV 5100/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258333	DMV 5100/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
269334	DMV 5100/632 ECO AC 110V		CONTACT CUSTOMER SERVICE
226073	DMV-D 5100/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
254190	DMV-D 5100/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256477	DMV-D 5100/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
258315	DMV-D 5100/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258334	DMV-D 5100/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
226112	DMV-DLE 5100/11 AC 110-120V IP54		CONTACT CUSTOMER SERVICE
256461	DMV-DLE 5100/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256480	DMV-DLE 5100/11 ECO AC 110V IP 54-VITON		CONTACT CUSTOMER SERVICE
258316	DMV-DLE 5100/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258335	DMV-DLE 5100/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
249774	DMV 5100/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256464	DMV 5100/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
244300	DMV 5100/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
255093	DMV 5100/12 AC 230 V IP 54 -VITON-		CONTACT CUSTOMER SERVICE
221688	DMV-D 5100/11 AC 230V IP54		CONTACT CUSTOMER SERVICE
224384	DMV-D 5100/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
241351	DMV-D 5100/11 AC 230V IP54		CONTACT CUSTOMER SERVICE
253459	DMV-D 5100/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256468	DMV-D 5100/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
244299	DMV-D 5100/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
221689	DMV-DLE 5100/11 AC 230V IP54		CONTACT CUSTOMER SERVICE

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
226111	DMV-DLE 5100/11 AC 230V IP54		CONTACT CUSTOMER SERVICE
266327	DMV-DLE 5100/11 AC 230V IP54		CONTACT CUSTOMER SERVICE
256458	DMV-DLE 5100/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256471	DMV-DLE 5100/11 ECO AC 230V IP 54-VITON		CONTACT CUSTOMER SERVICE
245687	DMV-DLE 5100/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
250364	DMV 5100/11 ECO DC 24V IP 54		CONTACT CUSTOMER SERVICE
256486	DMV 5100/11 ECO DC 24V IP 54-VITON		CONTACT CUSTOMER SERVICE
246840	DMV 5100/12 DC 24-28V IP 54		CONTACT CUSTOMER SERVICE
258317	DMV 5100/632 ECO DC 24V NBR		CONTACT CUSTOMER SERVICE
258336	DMV 5100/632 ECO DC 24V VITON		CONTACT CUSTOMER SERVICE
269347	DMV 5100/632 ECO DC 24VDC		CONTACT CUSTOMER SERVICE
222605	DMV-D 5100/11 DC 24- 28 V IP 54		CONTACT CUSTOMER SERVICE
226075	DMV-D 5100/11 DC 24-28 V IP54		CONTACT CUSTOMER SERVICE
245201	DMV-D 5100/11 DC 24- 28 V IP 54 VITON		CONTACT CUSTOMER SERVICE
222604	DMV-DLE 5100/11 DC 24-28V IP54		CONTACT CUSTOMER SERVICE
226114	DMV-DLE 5100/11 DC 24-28V IP54		CONTACT CUSTOMER SERVICE
254187	DMV 5125/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256475	DMV 5125/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
257242	DMV 5125/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258338	DMV 5125/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
226076	DMV-D 5125/11 AC 110-120V IP54		CONTACT CUSTOMER SERVICE
254191	DMV-D 5125/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256478	DMV-D 5125/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
258319	DMV-D 5125/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258339	DMV-D 5125/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
222222	DMV-DLE 5125/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
226108	DMV-DLE 5125/11 AC 110-120V IP54		CONTACT CUSTOMER SERVICE
256462	DMV-DLE 5125/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256482	DMV-DLE 5125/11 ECO AC 110V IP 54-VITON		CONTACT CUSTOMER SERVICE
258320	DMV-DLE 5125/632 ECO AC 110V NBR		CONTACT CUSTOMER SERVICE
258340	DMV-DLE 5125/632 ECO AC 110V VITON		CONTACT CUSTOMER SERVICE
250465	DMV 5125/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256465	DMV 5125/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
257743	DMV 5125/12 AC 230 V IP 54 -VITON-		CONTACT CUSTOMER SERVICE
221687	DMV-D 5125/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
224385	DMV-D 5125/11 AC 220-240V IP54		CONTACT CUSTOMER SERVICE
241352	DMV-D 5125/11 AC 230 V IP 54		CONTACT CUSTOMER SERVICE
253461	DMV-D 5125/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256469	DMV-D 5125/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
246383	DMV-D 5125/12 AC 230 V IP 54		CONTACT CUSTOMER SERVICE

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
221686	DMV-DLE 5125/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
226107	DMV-DLE 5125/11 AC 220-240V IP54		CONTACT CUSTOMER SERVICE
256459	DMV-DLE 5125/11 ECO AC 230V IP 54		CONTACT CUSTOMER SERVICE
256472	DMV-DLE 5125/11 ECO AC 230V IP 54-VITON		CONTACT CUSTOMER SERVICE
250365	DMV 5125/11 ECO DC 24V IP 54		CONTACT CUSTOMER SERVICE
256487	DMV 5125/11 ECO DC 24V IP 54-VITON		CONTACT CUSTOMER SERVICE
248332	DMV 5125/12 DC 24-28V IP 54		CONTACT CUSTOMER SERVICE
258321	DMV 5125/632 ECO DC 24V NBR		CONTACT CUSTOMER SERVICE
258341	DMV 5125/632 ECO DC 24V VITON		CONTACT CUSTOMER SERVICE
267170	DMV 5125/632 ECO DC 24VDC		CONTACT CUSTOMER SERVICE
222225	DMV-D 5125/11 DC 24-28 V IP54		CONTACT CUSTOMER SERVICE
226078	DMV-D 5125/11 DC 24-28 V IP54		CONTACT CUSTOMER SERVICE
245202	DMV-D 5125/11 DC 24-28 V -VITON-		CONTACT CUSTOMER SERVICE
222223	DMV-DLE 5125/11 DC 24-28V IP54		CONTACT CUSTOMER SERVICE
226110	DMV-DLE 5125/11 DC 24-28V IP54		CONTACT CUSTOMER SERVICE
223374	DMV-DLE 525/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
256274	DMV-DLE 525/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
223368	DMV-D 525/11 AC 110-120 V IP 54		CONTACT CUSTOMER SERVICE
256273	DMV-D 525/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
256204	DMV 525/11 ECO AC 110V IP 54		CONTACT CUSTOMER SERVICE
256272	DMV 525/11 ECO AC 110V IP 54 -VITON		CONTACT CUSTOMER SERVICE
223373	DMV-DLE 525/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
260612	DMV-DLE 525/11 AC 220-240V IP54		CONTACT CUSTOMER SERVICE
256253	DMV-DLE 525/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
223367	DMV-D 525/11 AC 220-240 V IP 54		CONTACT CUSTOMER SERVICE
256216	DMV-D 525/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
256213	DMV 525/11 ECO AC 230V IP 54 -VITON		CONTACT CUSTOMER SERVICE
223376	DMV-DLE 525/11 DC24-28V IP54		CONTACT CUSTOMER SERVICE
256280	DMV 525/11 ECO DC 24V IP 54 -VITON		CONTACT CUSTOMER SERVICE
241741	MBC-1900-SE-65 AC 230 V		CONTACT CUSTOMER SERVICE
242893	MBC-1900-SE-S302-65 230V		CONTACT CUSTOMER SERVICE
245962	MBC-1900-SE-65 AC 230V		CONTACT CUSTOMER SERVICE
248139	MBC-1900-SE-65 AC 230 V		CONTACT CUSTOMER SERVICE
250160	MBC-1900-SE-65 AC 230 V		CONTACT CUSTOMER SERVICE
250965	MBC-1900-SE-65 AC 230V + VPS 504 S02		CONTACT CUSTOMER SERVICE
251256	MBC-1900-SE-65 AC 230 V		CONTACT CUSTOMER SERVICE
258233	MBC-1900-SE-65 AC 230 V		CONTACT CUSTOMER SERVICE
258846	MBC-1900-SE-65 AC 230V		CONTACT CUSTOMER SERVICE
246720	MBC-1900-SE-65 DC 24-28V IP 54		CONTACT CUSTOMER SERVICE
247864	MBC-1900-SE-S302-65 DC 24-28V		CONTACT CUSTOMER SERVICE

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
243174	MBC-3100-SE-S302-80		CONTACT CUSTOMER SERVICE
244295	MBC-3100-SE-80 AC 230 V		CONTACT CUSTOMER SERVICE
245963	MBC-3100-SE-80 AC 230V		CONTACT CUSTOMER SERVICE
248140	MBC-3100-SE-80 AC 230 V		CONTACT CUSTOMER SERVICE
250161	MBC-3100-SE-80 AC 230 V		CONTACT CUSTOMER SERVICE
250967	MBC-3100-SE-80 AC 230V + VPS 504 S02		CONTACT CUSTOMER SERVICE
251257	MBC-3100-SE-80 AC 230 V		CONTACT CUSTOMER SERVICE
257829	MBC-3100-SE-80 AC 230 V		CONTACT CUSTOMER SERVICE
258847	MBC-3100-SE-80 AC 230V		CONTACT CUSTOMER SERVICE
248238	MBC-3100-SE-S302-80 DC 24-28 V		CONTACT CUSTOMER SERVICE
243388	MBC-5000-SE-S302-100 AC 230 V		CONTACT CUSTOMER SERVICE
244298	MBC-5000-SE-100 AC 230 V		CONTACT CUSTOMER SERVICE
246365	MBC-5000-SE-100 AC 230 V		CONTACT CUSTOMER SERVICE
248141	MBC-5000-SE-100 AC 230 V		CONTACT CUSTOMER SERVICE
250162	MBC-5000-SE-100 AC 230 V		CONTACT CUSTOMER SERVICE
250968	MBC-5000-SE-100 AC 230V + VPS 504 S02		CONTACT CUSTOMER SERVICE
251258	MBC-5000-SE-100 AC 230 V		CONTACT CUSTOMER SERVICE
257323	MBC-5000-SE-100 AC 110 V		CONTACT CUSTOMER SERVICE
258231	MBC-5000-SE-100 AC 230 V		CONTACT CUSTOMER SERVICE
258538	MBC-5000-SE-100 DC 24 V		CONTACT CUSTOMER SERVICE
243083	MBC-1900-VEF- DN65 230 VAC		CONTACT CUSTOMER SERVICE
250959	MBC-1900-VEF-65 AC 230 V		CONTACT CUSTOMER SERVICE
256786	MBC-1900-VEF-65 AC 230V		CONTACT CUSTOMER SERVICE
244428	MBC-3100-VEF-80 AC 230V		CONTACT CUSTOMER SERVICE
250962	MBC-3100-VEF-80 AC 230V		CONTACT CUSTOMER SERVICE
256785	MBC-3100-VEF-80 AC 230V		CONTACT CUSTOMER SERVICE
244301	MBC-5000-VEF-100 AC 230 V		CONTACT CUSTOMER SERVICE
250963	MBC-5000-VEF-100 AC 230 V		CONTACT CUSTOMER SERVICE
258232	MBC-5000-VEF-100 AC 230 V		CONTACT CUSTOMER SERVICE
270290	SAV 100025 ND	270291	SAV 100025 ND-MD
270292	SAV 100025 HD	271122	SAV 250025 HD-UHD
270293	SAV 100040 ND	270294	SAV 100040 ND-MD
270295	SAV 100040 HD	271123	SAV 250040 HD-UHD
270296	SAV 100050 ND	270297	SAV 100050 ND-MD
270298	SAV 100050 HD	271124	SAV 250050 HD-UHD
277797	SAV 100025 ND ANSI	277799	SAV 100025 ND-MD ANSI
277800	SAV 100025 HD ANSI	275186	SAV 250025 HD-UHD ANSI
277801	SAV 100040 ND ANSI	277802	SAV 100040 ND-MD ANSI
277803	SAV 100040 HD ANSI	275184	SAV 250040 HD-UHD ANSI
277804	SAV 100050 ND ANSI	277805	SAV 100050 ND-MD ANSI

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
277806	SAV 100050 HD ANSI	273855	SAV 250050 HD-UHD ANSI
287907	SAV 10010 ND	287908	SAV 10010 ND-MD
287910	SAV 10015 ND	287911	SAV 10015 ND-MD
287913	SAV 10020 ND	287914	SAV 10020 ND-MD
287916	SAV 10010 ND NPT	287917	SAV 10010 ND-MD NPT
287919	SAV 10015 ND NPT	287920	SAV 10015 ND-MD NPT
287922	SAV 10020 ND NPT	287923	SAV 10020 ND-MD NPT
242912	MVD 503/5 110 VAC IP 65	305345	MVD 503/5-110VAC-EC01-IP54
108571	MVD 203/5 230 VAC IP 54	305347	MVD 503/5-230VAC-EC01-IP54
158090	MVD 503/5 230 VAC IP 54	305347	MVD 503/5-230VAC-EC01-IP54
233118	MVD 203/5 24-28 VDC IP 65	305349	MVD 503/5-24VDC-EC01-IP54
242913	MVD 503/5 24-28 VDC IP 65	305349	MVD 503/5-24VDC-EC01-IP54
108597	MVDLE 203/5 230 VAC IP 54	305383	MVDLE 503/5-230VAC-EC01-IP54
181190	MVD 205/5 110 VAC IP 54	305430	MVD 505/5-110VAC-EC01-IP54
256344	MVD 205/5 110 VAC IP 65	305430	MVD 505/5-110VAC-EC01-IP54
231100	MVD 505/5 AC 110V IP 54	305430	MVD 505/5-110VAC-EC01-IP54
239189	MVD 505/5 AC 110V IP 65	305430	MVD 505/5-110VAC-EC01-IP54
254169	MVD 205/4 110 VAC IP 54 B. ANZ	305430	MVD 505/5-110VAC-EC01-IP54
271179	MVD 205/5 AC 110V STECKER IP 54	305432	MVD 505/5-110VAC-EC05-IP54
271187	MVD 505/5 AC 110V STECKER IP 54	305432	MVD 505/5-110VAC-EC05-IP54
254168	MVD 205/4 230 VAC IP 54 B.ANZ(MAGN.100)	305434	MVD 505/5-230VAC-EC01-IP54
263877	MVD 205/5 AC 230V IP 54	305434	MVD 505/5-230VAC-EC01-IP54
158110	MVD 505/5 230 VAC IP 54	305434	MVD 505/5-230VAC-EC01-IP54
259650	MVD 505/5 AC 230V IP 54	305434	MVD 505/5-230VAC-EC01-IP54
208234	MVD 505/5 230 VAC IP 65	305434	MVD 505/5-230VAC-EC01-IP54
274002	MVD 205/5 AC 230V STECKER IP 54	305435	MVD 505/5-230VAC-EC05-IP54
270486	MVD 205/5 AC 230V STECKER IP 54	305435	MVD 505/5-230VAC-EC05-IP54
274010	MVD 505/5 AC 230V STECKER IP 54	305435	MVD 505/5-230VAC-EC05-IP54
270491	MVD 505/5 AC 230V STECKER IP 54	305435	MVD 505/5-230VAC-EC05-IP54
204780	MVD 205/5 24-28 VDC IP 65	305436	MVD 505/5-24VDC-EC01-IP54
300097	MVD 505/5 24-28 VDC IP 65 - DIN ADAPTER	305437	MVD 505/5-24VDC-EC05-IP54
209648	MVD 505/5 24-28 VDC STECKANSCHLUSS DIN 4	305437	MVD 505/5-24VDC-EC05-IP54
247481	MVDLE 205/5 110 VAC IP 54	305438	MVDLE 505/5-110VAC-EC01-IP54
271184	MVDLE 205/5 AC 110V STECKER IP 54	305439	MVDLE 505/5-110VAC-EC05-IP54
246324	MVDLE 205/5 230 VAC	305440	MVDLE 505/5-230VAC-EC01-IP54
13284	MVDLE 205/5 230 VAC IP 54	305440	MVDLE 505/5-230VAC-EC01-IP54
263759	MVDLE 205/5 AC 230V IP 54	305440	MVDLE 505/5-230VAC-EC01-IP54
271192	MVDLE 505/5 AC 230V IP 54	305440	MVDLE 505/5-230VAC-EC01-IP54
257488	MVDLE 205/5 230 VAC IP 54 STECKANSCHLUSS	305441	MVDLE 505/5-230VAC-EC05-IP54

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
274015	MVDLE 205/5 AC 230V STECKER IP 54	305441	MVDLE 505/5-230VAC-EC05-IP54
271211	MVDLE 205/5 AC 230V STECKER IP 54	305441	MVDLE 505/5-230VAC-EC05-IP54
164920	MVD 207/5 110 VAC IP 54	305446	MVD 507/5-110VAC-EC01-IP54
231096	MVD 507/5 AC 110V IP 54	305446	MVD 507/5-110VAC-EC01-IP54
242921	MVD 507/5 110 VAC IP 65	305446	MVD 507/5-110VAC-EC01-IP54
253973	MVD 207/4 110 VAC IP 54 (MAG.200) B. ANZ	305446	MVD 507/5-110VAC-EC01-IP54
271180	MVD 207/5 AC 110V STECKER IP 54	305447	MVD 507/5-110VAC-EC05-IP54
271188	MVD 507/5 AC 110V STECKER IP 54	305447	MVD 507/5-110VAC-EC05-IP54
157530	MVD 507/5 230 VAC IP 54	305448	MVD 507/5-230VAC-EC01-IP54
262555	MVD 507/5 AC 230V IP 54	305448	MVD 507/5-230VAC-EC01-IP54
273255	MVD207/4 230VAC IP54 B.ANZ.	305448	MVD 507/5-230VAC-EC01-IP54
232420	MVD 507/5 230 VAC IP 65	305448	MVD 507/5-230VAC-EC01-IP54
253972	MVD 207/4 230 VAC IP 54 (MAG.200) B. ANZ	305448	MVD 507/5-230VAC-EC01-IP54
121962	MVD 207/5 230 VAC IP 54 (MAG.NR.200)	305448	MVD 507/5-230VAC-EC01-IP54
263878	MVD 207/5 AC 230V IP 54	305448	MVD 507/5-230VAC-EC01-IP54
274005	MVD 207/5 AC 230V STECKER IP 54	305449	MVD 507/5-230VAC-EC05-IP54
270487	MVD 207/5 AC 230V STECKER IP 54	305449	MVD 507/5-230VAC-EC05-IP54
274011	MVD 507/5 AC 230V STECKER IP 54	305449	MVD 507/5-230VAC-EC05-IP54
270492	MVD 507/5 AC 230V STECKER IP 54	305449	MVD 507/5-230VAC-EC05-IP54
231866	MVD 507/5 DC 24V IP 65	305450	MVD 507/5-24VDC-EC01-IP54
267256	MVDLE 207/5 110VAC	305452	MVDLE 507/5-110VAC-EC01-IP54
271197	MVDLE 507/5 AC 110V IP 54	305452	MVDLE 507/5-110VAC-EC01-IP54
13276	MVDLE 207/5 230 VAC IP 54	305454	MVDLE 507/5-230VAC-EC01-IP54
246323	MVDLE 207/5 230 VAC IP 54	305454	MVDLE 507/5-230VAC-EC01-IP54
263784	MVDLE 207/5 AC 230V IP 54	305454	MVDLE 507/5-230VAC-EC01-IP54
222079	MVDLE 507/5 AC 230V IP 54	305454	MVDLE 507/5-230VAC-EC01-IP54
257489	MVDLE 207/5 230 VAC IP 54 STECKANSCHLUSS	305456	MVDLE 507/5-230VAC-EC05-IP54
274016	MVDLE 207/5 AC 230V STECKER IP 54	305456	MVDLE 507/5-230VAC-EC05-IP54
271212	MVDLE 207/5 AC 230V STECKER IP 54	305456	MVDLE 507/5-230VAC-EC05-IP54
271193	MVDLE 507/5 AC 230V STECKER IP 54	305456	MVDLE 507/5-230VAC-EC05-IP54
195520	MVD 210/5 110 VAC IP 54	305459	MVD 510/5-110VAC-EC01-IP54
231097	MVD 510/5 AC 110V IP 54	305459	MVD 510/5-110VAC-EC01-IP54
242927	MVD 510/5 110 VAC IP 65	305459	MVD 510/5-110VAC-EC01-IP54
271181	MVD 210/5 AC 110V STECKER IP 54	305460	MVD 510/5-110VAC-EC05-IP54
271189	MVD 510/5 AC 110V STECKER IP 54	305460	MVD 510/5-110VAC-EC05-IP54
263879	MVD 210/5 AC 230V IP 54	305462	MVD 510/5-230VAC-EC01-IP54
157540	MVD 510/5 230 VAC IP 54	305462	MVD 510/5-230VAC-EC01-IP54
259651	MVD 510/5 AC 230V IP 54	305462	MVD 510/5-230VAC-EC01-IP54
242928	MVD 510/5 230 VAC IP 65	305462	MVD 510/5-230VAC-EC01-IP54

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
274007	MVD 210/5 AC 230V STECKER IP 54	305463	MVD 510/5-230VAC-EC05-IP54
270488	MVD 210/5 AC 230V STECKER IP 54	305463	MVD 510/5-230VAC-EC05-IP54
274012	MVD 510/5 AC 230V STECKER IP 54	305463	MVD 510/5-230VAC-EC05-IP54
270493	MVD 510/5 AC 230V STECKER IP 54	305463	MVD 510/5-230VAC-EC05-IP54
242929	MVD 510/5 24-28 VDC IP 65	305464	MVD 510/5-24VDC-EC01-IP54
195550	MVDLE 210/5 110 VAC IP 54	305466	MVDLE 510/5-110VAC-EC01-IP54
271185	MVDLE 210/5 AC 110V STECKER IP 54	305467	MVDLE 510/5-110VAC-EC05-IP54
*013524	MVDLE 210/5 230 VAC IP 54	305468	MVDLE 510/5-230VAC-EC01-IP54
246325	MVDLE 210/5 230 VAC IP 54	305468	MVDLE 510/5-230VAC-EC01-IP54
263785	MVDLE 210/5 AC 230V IP 54	305468	MVDLE 510/5-230VAC-EC01-IP54
271194	MVDLE 510/5 AC 230V IP 54	305468	MVDLE 510/5-230VAC-EC01-IP54
257490	MVDLE 210/5 230 VAC IP 54 STECKANSCHLUSS	305469	MVDLE 510/5-230VAC-EC05-IP54
274017	MVDLE 210/5 AC 230V STECKER IP 54	305469	MVDLE 510/5-230VAC-EC05-IP54
271213	MVDLE 210/5 AC 230V STECKER IP 54	305469	MVDLE 510/5-230VAC-EC05-IP54
195530	MVD 215/5 110 VAC IP 54	305472	MVD 515/5-110VAC-EC01-IP54
256342	MVD 215/5 110 VAC IP 65	305472	MVD 515/5-110VAC-EC01-IP54
242933	MVD 515/5 110 VAC IP 65	305472	MVD 515/5-110VAC-EC01-IP54
271227	MVD 215/5 110VAC STECKER IP 65	305473	MVD 515/5-110VAC-EC05-IP54
271190	MVD 515/5 AC 110V STECKER IP 54	305473	MVD 515/5-110VAC-EC05-IP54
271228	MVD 515/5 AC 110V STECKER IP 65	305473	MVD 515/5-110VAC-EC05-IP54
271182	MVD 215/5 AC 110V STECKER IP 54	305473	MVD 515/5-110VAC-EC05-IP54
246328	MVD 515/5 230 VAC	305474	MVD 515/5-230VAC-EC01-IP54
242934	MVD 515/5 230 VAC IP 65	305474	MVD 515/5-230VAC-EC01-IP54
157550	MVD 515/5 230 VAC IP 54	305474	MVD 515/5-230VAC-EC01-IP54
15446	MVD 215/5 230 VAC IP 54	305474	MVD 515/5-230VAC-EC01-IP54
121977	MVD 215/5 230 VAC IP 54 (MAG.NR.300)	305474	MVD 515/5-230VAC-EC01-IP54
263880	MVD 215/5 AC 230V IP 54	305474	MVD 515/5-230VAC-EC01-IP54
262620	MVD 515/5 AC 230V IP 54	305474	MVD 515/5-230VAC-EC01-IP54
274008	MVD 215/5 AC 230V STECKER IP 54	305475	MVD 515/5-230VAC-EC05-IP54
270489	MVD 215/5 AC 230V STECKER IP 54	305475	MVD 515/5-230VAC-EC05-IP54
274013	MVD 515/5 AC 230V STECKER IP 54	305475	MVD 515/5-230VAC-EC05-IP54
270496	MVD 515/5 AC 230V STECKER IP 54	305475	MVD 515/5-230VAC-EC05-IP54
242935	MVD 515/5 24-28 VDC IP 65	305476	MVD 515/5-24VDC-EC01-IP54
195560	MVDLE 215/5 110 VAC	305478	MVDLE 515/5-110VAC-EC01-IP54
267257	MVDLE 215/5 110VAC	305478	MVDLE 515/5-110VAC-EC01-IP54
15412	MVDLE 215/5 230 VAC IP 54	305480	MVDLE 515/5-230VAC-EC01-IP54
246326	MVDLE 215/5 230 VAC IP 54	305480	MVDLE 515/5-230VAC-EC01-IP54
122002	MVDLE 215/5 230 VAC IP 54 (MAG.NR.300)	305480	MVDLE 515/5-230VAC-EC01-IP54
271198	MVDLE 515/5 AC 110V IP 54	305478	MVDLE 515/5-110VAC-EC01-IP54

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
271186	MVDLE 215/5 AC 110V STECKER IP 54	305479	MVDLE 515/5-110VAC-EC05-IP54
263786	MVDLE 215/5 AC 230V IP 54	305480	MVDLE 515/5-230VAC-EC01-IP54
222081	MVDLE 515/5 AC 230V IP 54	305480	MVDLE 515/5-230VAC-EC01-IP54
274018	MVDLE 215/5 AC 230V STECKER IP 54	305481	MVDLE 515/5-230VAC-EC05-IP54
270502	MVDLE 215/5 AC 230V STECKER IP 54	305481	MVDLE 515/5-230VAC-EC05-IP54
271195	MVDLE 515/5 AC 230VSTECKER IP 54	305481	MVDLE 515/5-230VAC-EC05-IP54
195540	MVD 220/5 110 VAC IP 54	305484	MVD 520/5-110VAC-EC01-IP54
242939	MVD 520/5 110 VAC IP 65	305484	MVD 520/5-110VAC-EC01-IP54
271183	MVD 220/5 AC 110V STECKER IP 54	305485	MVD 520/5-110VAC-EC05-IP54
271191	MVD 520/5 AC 110V STECKER IP 54	305485	MVD 520/5-110VAC-EC05-IP54
271229	MVD 520/5 AC 110V STECKER IP 65	305485	MVD 520/5-110VAC-EC05-IP54
242940	MVD 520/5 230 VAC IP 65	305486	MVD 520/5-230VAC-EC01-IP54
11767	MVD 220/5 230 VAC IP 54	305486	MVD 520/5-230VAC-EC01-IP54
246321	MVD 220/5 230 VAC IP 54	305486	MVD 520/5-230VAC-EC01-IP54
263881	MVD 220/5 AC 230V IP 54	305486	MVD 520/5-230VAC-EC01-IP54
246330	MVD 520/5 230 VAC	305486	MVD 520/5-230VAC-EC01-IP54
259652	MVD 520/5 AC 230V IP 54	305486	MVD 520/5-230VAC-EC01-IP54
274009	MVD 220/5 AC 230V STECKER IP 54	305487	MVD 520/5-230VAC-EC05-IP54
270490	MVD 220/5 AC 230V STECKER IP 54	305487	MVD 520/5-230VAC-EC05-IP54
274014	MVD 520/5 AC 230V STECKER IP 54	305487	MVD 520/5-230VAC-EC05-IP54
270498	MVD 520/5 AC 230V STECKER IP 54	305487	MVD 520/5-230VAC-EC05-IP54
242941	MVD 520/5 24-28 VDC IP 65	305489	MVD 520/5-24VDC-EC01-IP54
271199	MVDLE 520/5 AC 110V IP 54	305491	MVDLE 520/5-110VAC-EC01-IP54
246322	MVDLE 220/5 230 VAC IP 54	305493	MVDLE 520/5-230VAC-EC01-IP54
263787	MVDLE 220/5 AC 230V IP 54	305493	MVDLE 520/5-230VAC-EC01-IP54
274019	MVDLE 220/5 AC 230V STECKER IP 54	305494	MVDLE 520/5-230VAC-EC05-IP54
270503	MVDLE 220/5 AC 230V STECKER IP 54	305494	MVDLE 520/5-230VAC-EC05-IP54
271196	MVDLE 520/5 AC 230V STECKER IP 54	305494	MVDLE 520/5-230VAC-EC05-IP54
111146	MVD 2040/5 230 VAC IP 54	305654	MVD 5040/5-230VAC-EC01-IP54
111906	MVD 2040/5 230 VAC IP 54 MAG.NR.300	305654	MVD 5040/5-230VAC-EC01-IP54
170660	MVD 5040/5 230 VAC IP 54	305654	MVD 5040/5-230VAC-EC01-IP54
111914	MVDLE 2040/5 230 VAC IP 54	305656	MVDLE 5040/5-230VAC-EC01-IP54
111187	MVD 2050/5 230 VAC IP 54	305657	MVD 5050/5-230VAC-EC01-IP54
170690	MVD 5050/5 230 VAC IP 54	305657	MVD 5050/5-230VAC-EC01-IP54
111195	MVDLE 2050/5 230 VAC IP 54	305658	MVDLE 5050/5-230VAC-EC01-IP54
222087	MVDLE 5050/5 AC 230V IP 54	305658	MVDLE 5050/5-230VAC-EC01-IP54
209650	MVD 5050/5 24-28 VDC	305659	MVD 5050/5-24VDC-EC01-IP54
244124	FRN 5040	297484	FRN OH 5040
290061	FRNG 5040 OH	297484	FRN OH 5040
241746	FRN 5050	297485	FRN OH 5050

OBSOLETE PARTS

Obsolete PN	Model/Description	Alternate/Replacement PN	Model/Description
290062	FRNG 5050 OH	297485	FRN OH 5050
241755	FRN 5065	297486	FRN OH 5065
290063	FRNG 5065 OH	297486	FRN OH 5065
241757	FRN 5080	297487	FRN OH 5080
290064	FRNG 5080 OH	297487	FRN OH 5080
241760	FRN 5100	297488	FRN OH 5100
290065	FRNG 5100 OH	297488	FRN OH 5100
290066	FRN 5125 OH	297489	FRN OH 5125
290067	FRNG 5150 OH	297490	FRN OH 5150