

DJ Gongol & Associates, Inc. PO Box 180 | West Des Moines, IA 50061-0180 4328 North Dawson | Cumming, IA 50061 515-223-4144 | 515-981-0581 fax info@gongol.net



SERIES RGXII

"ANTI-SURGE" SEWAGE AIR RELEASE AND VACUUM BREAK VALVES

FOR EFFECTIVE AIR RELEASE, VACUUM PROTECTION AND SURGE ALLEVIATION



RF Valves, Inc. / Vent-O-Mat USA

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Revision Date August 2015 Catalogue RGXII0003





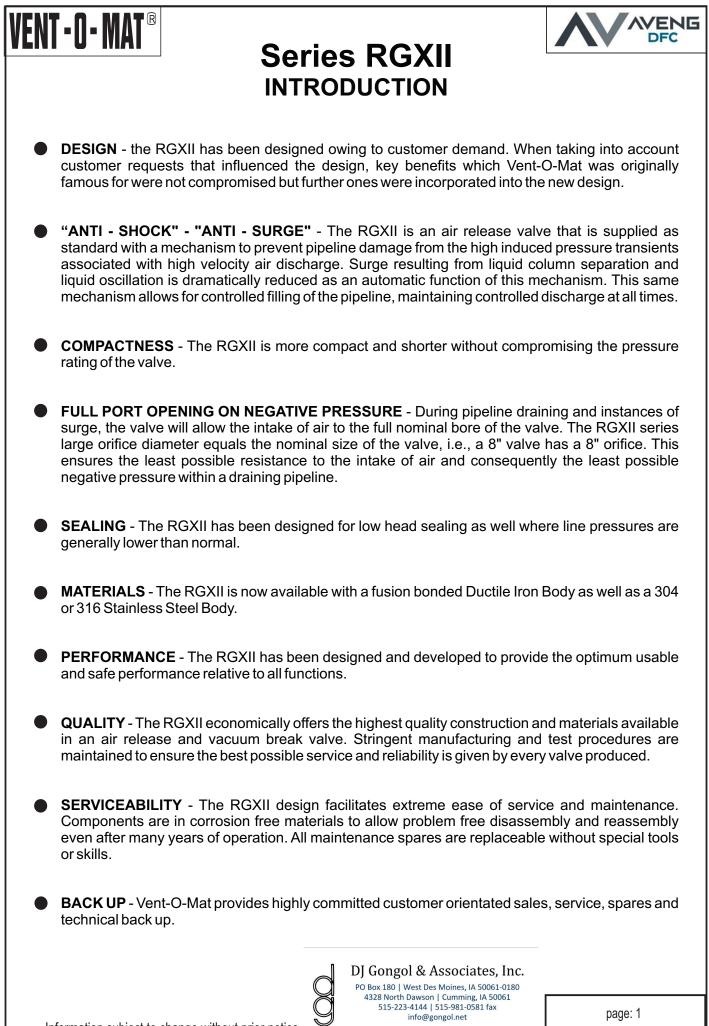




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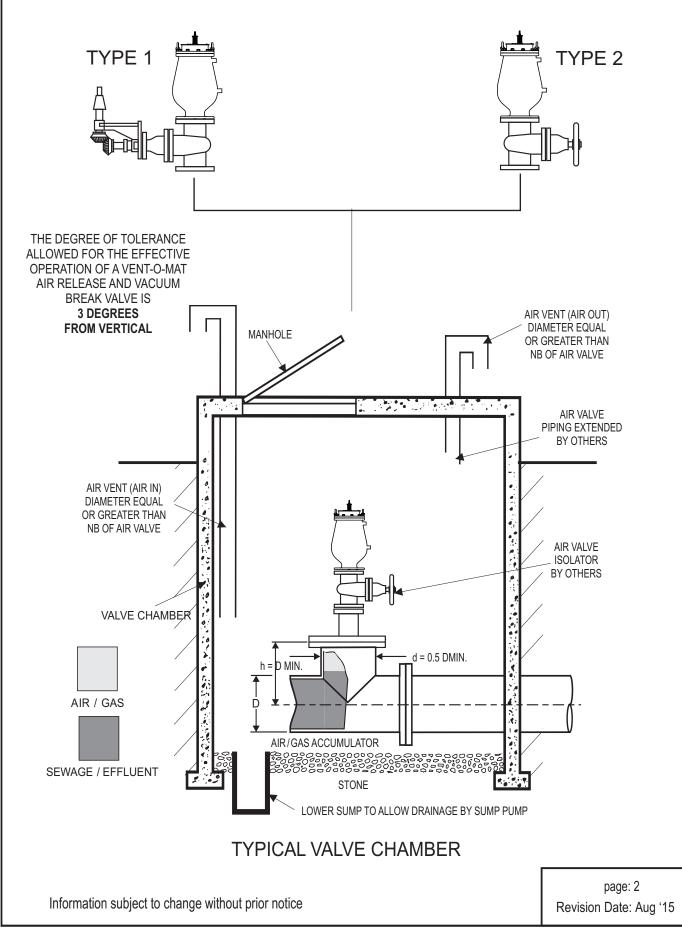
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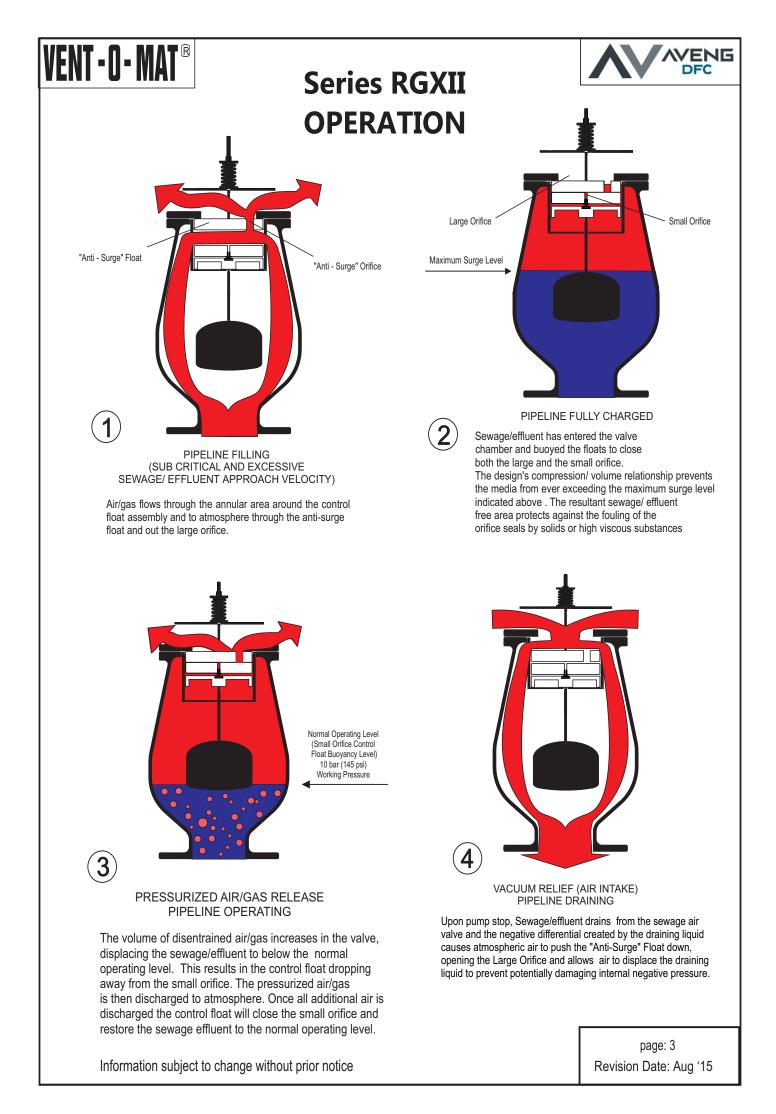
VENT-O-MAT®

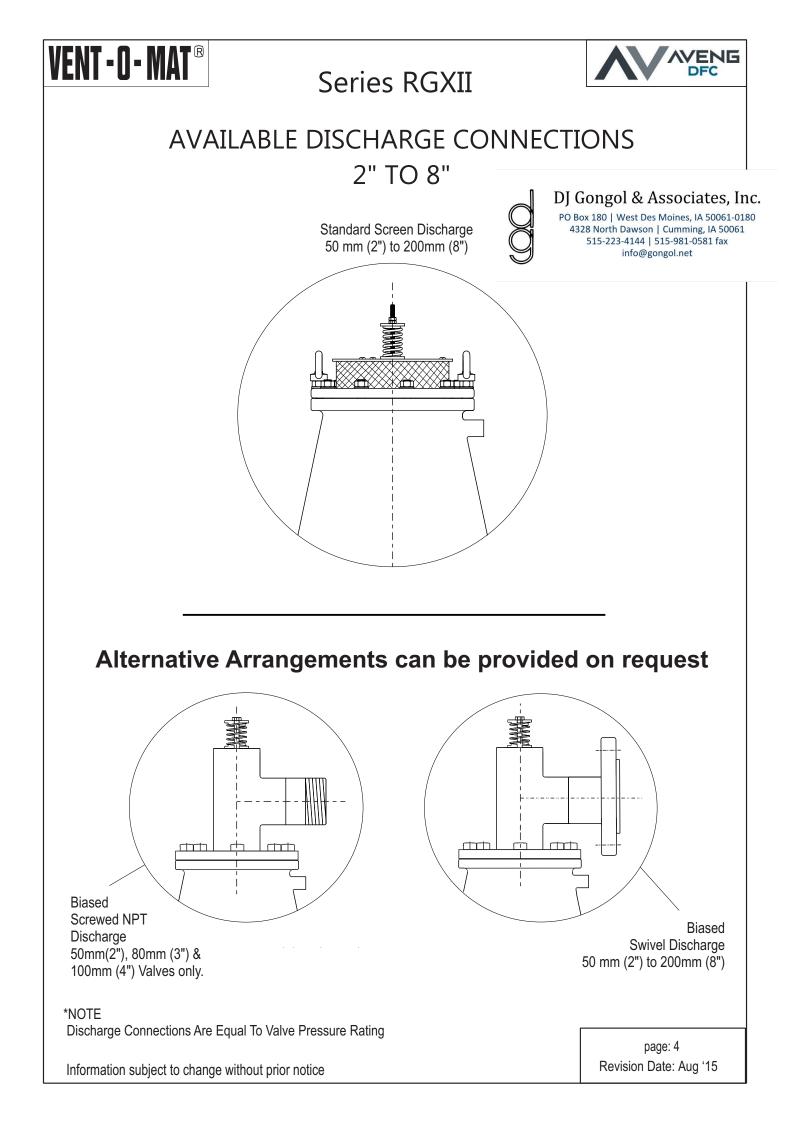
Series RGXII



RECOMMENDED INSTALLATION ARRANGEMENTS



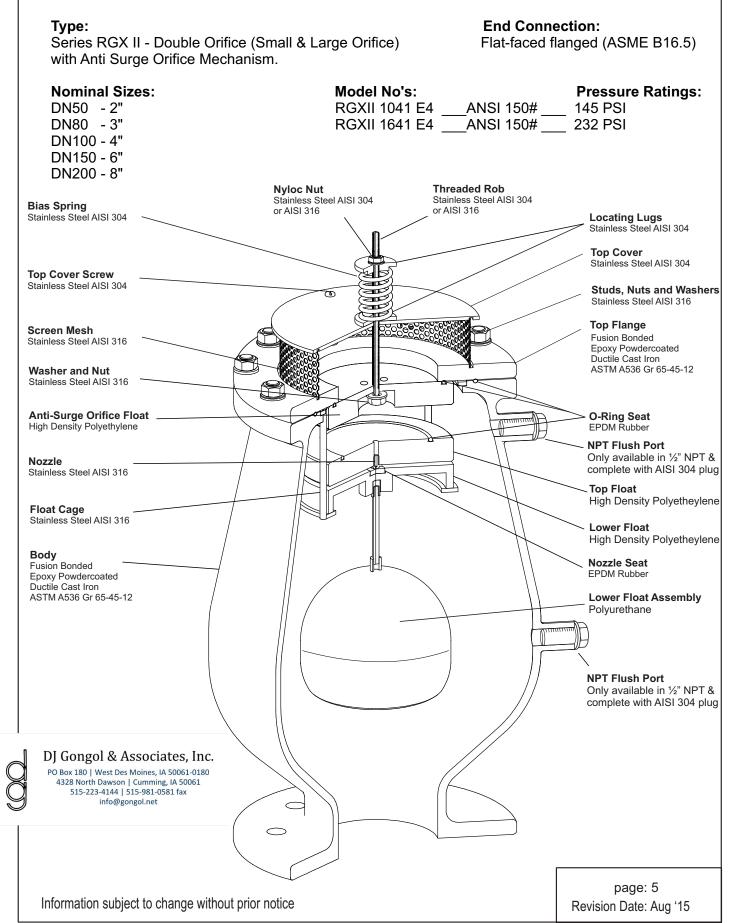








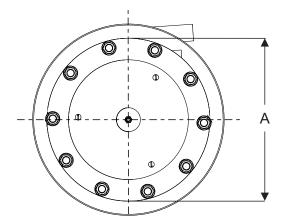
COMPONENT DESCRIPTION & MATERIAL SPECIFICATION EPOXY COATED CAST BODY - FLANGED INLET 2"- 8"

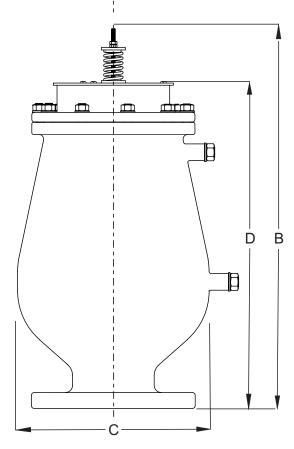






GENERAL SPECIFICATIONS EPOXY COATED CAST BODY - FLANGED INLET 2" - 8"





Type:

Double Orifice (Small & Large Orifice) with Bias mechanism for large volume air intake and controlled air discharge.

End Connection:

Flanged - ASME B16.5 Class 150

Nominal Sizes:

DN50 (2"), DN80 (3"), DN100 (4"), DN150 (6") & DN200 (8")

Operating Temperature Range:

40° to 176°F

Model No's:	Operating Pressure Range
RGXII 1041 E4	2.9 psi to 145 psi
RGXII 1641 E4	2.9 psi to 232 psi

Function:

- i) High volume air intake pipeline draining
- ii) Pressurized air/gas discharge pipeline filled.
- iii) Controlled air discharge pipeline filling.
- iv) Surge dampening high velocity air/gas discharge, liquid column separation & liquid oscillation.

Valve Selection:- Pages 10 - 11

Materials of Construction:- Page 5

Installation:- Page 2

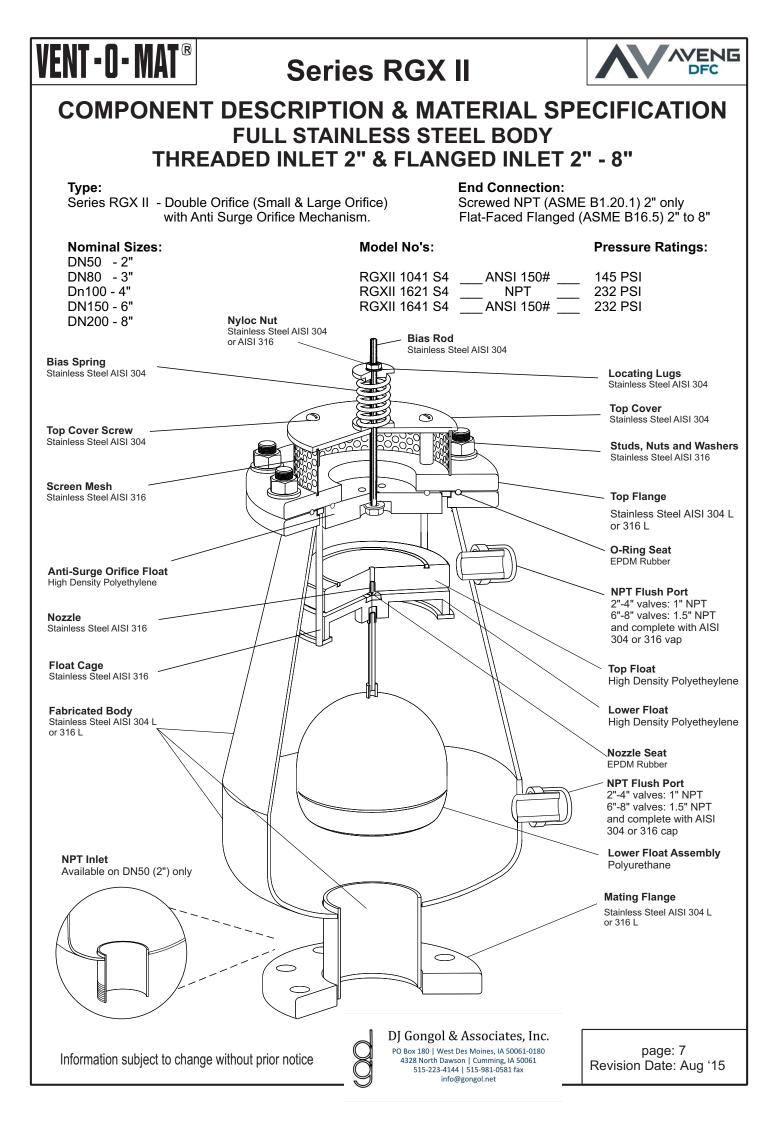
Standard Factory Tests:

- i) Hydrostatic test -1.5 x max. rated working pressure
- ii) Low head leak test 0.2 bar (2.9 psi)
- iii) Small orifice function test at max. rated working pressure (minimum 1 valve in 10).

OVERALL DIMENSIONS & WEIGHTS

C	DN	Model No.		4		В	0	2	D)	Weigh	nt Cast
mm	in		mm	in	mm	in	mm	in	mm	in	kg	lbs
50	2	050 RGXII 1641	174	6.85	413	16.26	155	6.10	363	14.29	16	35.27
80	3	080 RGXII 1641	230	9.06	640	25.20	273	10.75	546	21.50	40	88.18
100	4	100 RGXII 1641	230	9.06	645	25.39	273	10.75	546	21.50	40	88.18
150	6	150 RGXII 1041	340	13.39	772	30.39	400	15.75	680	26.77	70	154.32
200	8	200 RGXII 1041	355	13.98	940	37.01	526	20.71	846	33.31	115	253.53

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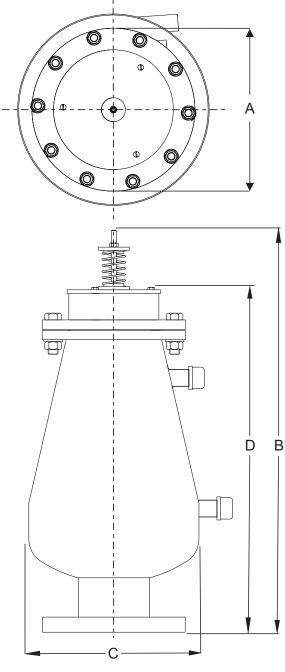


VENT-O-MAT®

Series RGXII



GENERAL SPECIFICATIONS FULL STAINLESS STEEL BODY THREADED INLET 2" & FLANGED INLET 2" - 8"



Type:

Double Orifice (Small & Large Orifice) with Bias mechanism for large volume air intake and controlled air discharge.

End Connection:

Screwed NPT (ASME B1.20.1) 2" only Flanged - (ASME B16.5 Class 150) 2" - 8"

Nominal Sizes:

DN50 (2"), DN80 (3"), DN100 (4"), DN150 (6") & DN200 (8")

Operating Temperature Range:

40° to 176°F

Model No's:	Operating Pressure Range
RGX II 1041 S4	2.9 psi to 145 psi
RGX II 1621 S4	2.9 psi to 232 psi
RGX II 1641 S4	2.9 psi to 232 psi

Function:

- i) High volume air intake pipeline draining
- ii) Pressurized air/gas discharge pipeline filled.
- iii) Controlled air discharge pipeline filling.
- iv) Surge dampening high velocity air/gas discharge, liquid column separation & liquid oscillation.

Valve Selection:- Page 10 - 11

Materials of Construction:- Page 7

Installation:- Page 2

Standard Factory Tests:

- i) Hydrostatic test -1.5 x max. rated working pressure
- ii) Low head leak test 0.2 bar (2.9 psi)
- iii) Small orifice function test at max. rated working pressure (minimum 1 valve in 10).
- * 2" NPT SCREWED INLET VALVE AVAILABLE ON REQUEST

OVERALL DIMENSIONS & WEIGHTS

D	Ν	Model No.	A	4		В	0	С	[D	Weight	S/Steel
mm	in		mm	in	mm	in	mm	in	mm	in	kg	lbs
50	2	050 RGXII 1641	174	6.85	410	16.16	141	5.55	360	14.21	13	28.66
80	3	080 RGXII 1641	230	9.06	650	25.60	273	10.75	550	21.65	30	66.14
100	4	100 RGXII 1641	230	9.06	650	25.60	273	10.75	550	21.65	30	66.14
150	6	150 RGXII 1041	340	13.39	798	31.45	406	16.00	704	27.70	60	132.28
200	8	200 RGXII 1041	355	13.98	950	37.41	508	20.00	856	33.70	80	176.37

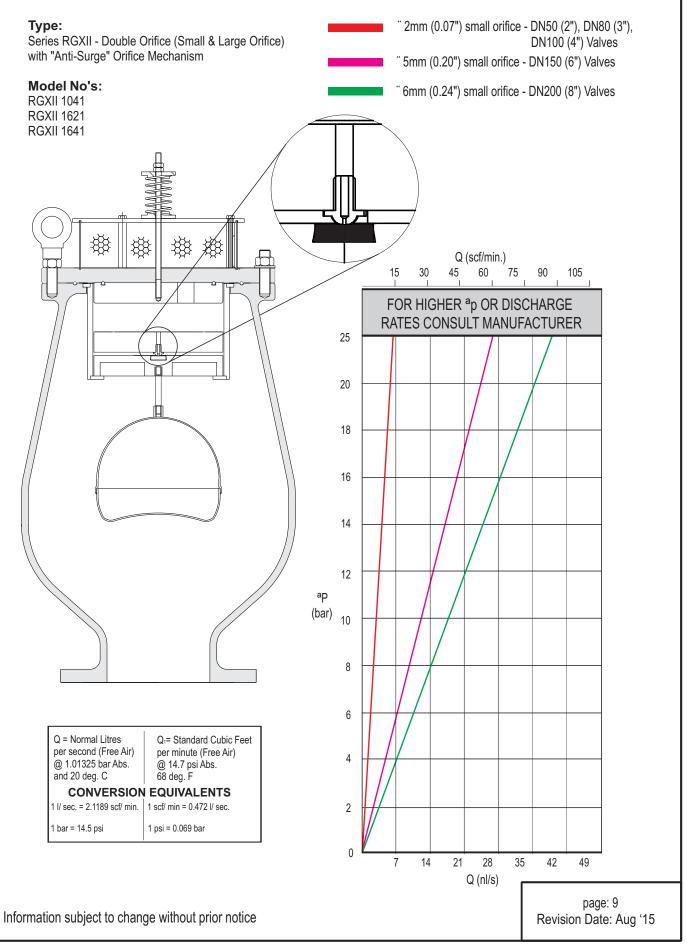
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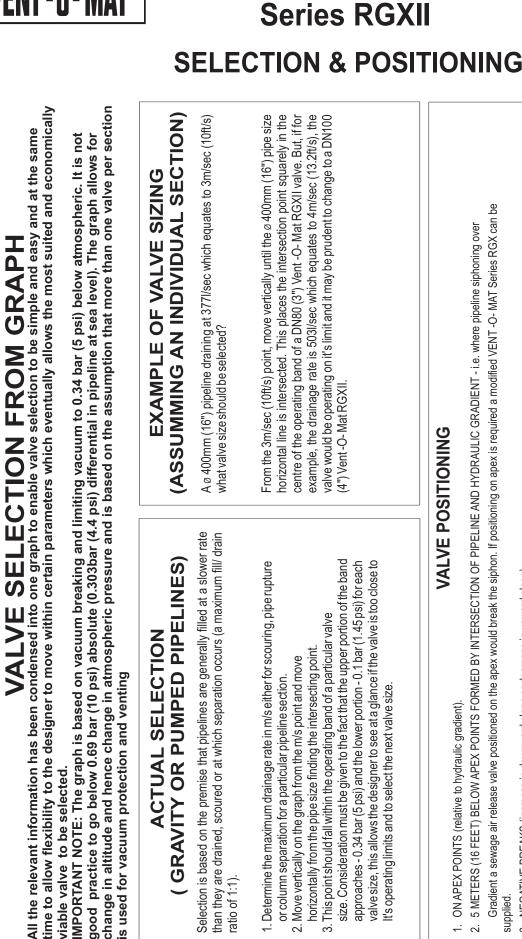
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SMALL ORIFICE DISCHARGE PERFORMANCE





'ENT • O • MAT

- horizontally from the pipe size finding the intersecting point. 2. Move vertically on the graph from the m/s point and move
- size. Consideration must be given to the fact that the upper portion of the band valve size, this allows the designer to see at a glance if the valve is too close to approaches - 0.34 bar (5 psi) and the lower portion - 0.1 bar (1.45 psi) for each 3. This point should fall within the operating band of a particular valve It's operating limits and to select the next valve size.

(4") Vent -O- Mat RGXII.

horizontal line is intersected. This places the intersection point squarely in the example, the drainage rate is 503l/sec which equates to 4m/sec (13.2ft/s), the valve would be operating on it's limit and it may be prudent to change to a DN100 centre of the operating band of a DN80 (3") Vent -O- Mat RGXII valve. But, if for

VALVE POSITIONING

- 1. ON APEX POINTS (relative to hydraulic gradient).
- Gradient a sewage air release valve positioned on the apex would break the siphon. If positioning on apex is required a modified VENT -O- MAT Series RGX can be 5 METERS (16 FEET) BELOW APEX POINTS FORMED BY INTERSECTION OF PIPELINE AND HYDRAULIC GRADIENT - i.e. where pipeline siphoning over 2
 - NEGATIVE BREAKS (increase in downward slope or decrease in upward slope). supplied.
- 4. LONG HORIZONTAL SECTIONS every 600 meters (1/3 of a mile) maximum.
 - 5. LONG ASCENDING SECTIONS every 600 meters (1/3 of a mile) maximum.
- 6. LONG DESCENDING SECTIONS every 600 meters (1/3 of a mile) maximum.
- PUMP DISCHARGE (not shown in diagram) just subsequent to non return valve. ~
 - BLANK ENDS (not shown in diagram) where a pipeline is terminated ю.
- by a blind flange or a valve.



GRADIENT SCOUR

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HYDRAULIC GRADIENT

SCOUR MAY BE REQUIRED

FOR SCOURING

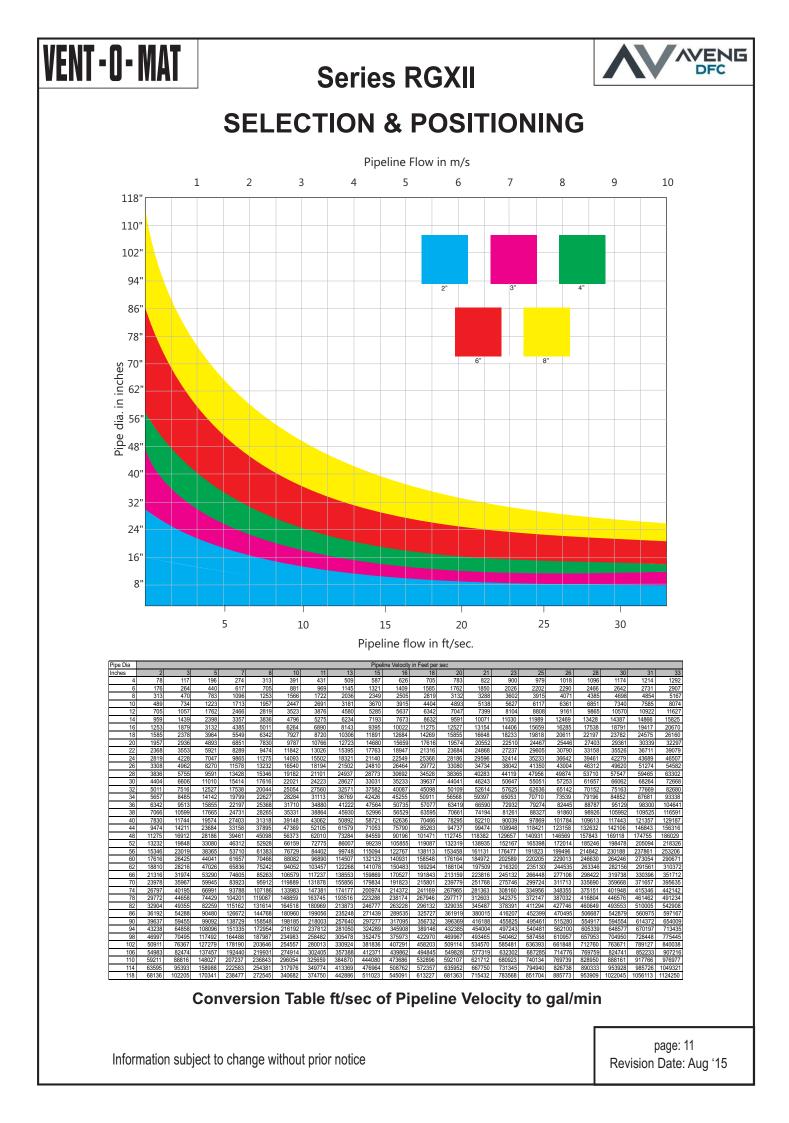
VALVE

HORIZONTAL DATUM

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SURGE & WATERHAMMER PROTECTION

Introduction

The Vent-O-Mat Series RGXII "Anti-Surge" sewage air release and vacuum break valve, is an evolution of market feedback and the incorporation of the already proven Vent-O-Mat technology which itself resulted from years of extensive research. The valve unlike many others is not just an adaption of an air valve to handle sewage, but the result of over 30 years of dealing with sewage and seeing what works and adapting it to the needs of the end user.

Surge Protection - Initial Filling

The RGXII is always biased in the "Anti-Surge" mode meaning all air release is controlled through the "Anti-Surge" Orifice which is aerodynamically engineered to throttle air discharge when liquid approach velocity would otherwise become too great and induce an unacceptable pressure rise. The air throttling action increases resistance to the flow of the approaching liquid which consequently decelerates to a velocity which reduces the pressure rise when the valve closes (see operation of valve on page 3). Vent-O-Mat series RGXII is an essential precaution for pipeline priming.

Surge Protection - Pump Trip Conditions

In instances where a pipeline experiences liquid column separation due to pump stoppage, high shock pressures can be generated when the separated liquid column rejoins.

The Vent-O-Mat series RGXII takes in air through the unobstructed large orifice when liquid column separation occurs, but controls the discharge of air/gas through the "Anti-Surge" Orifice as the separated column commences to rejoin. The rejoining impact velocity is thereby considerably reduced to alleviate high surge pressures in the system (see operation of valve on page 3).

Other surge control measures may, dependant on pipeline profile, diameter and operating conditions, be needed to provide the primary surge alleviation function with the Vent-O-Mat sewage air-valves forming an integral and valuable addition in a combined strategy for further reducing surge pressures. The benefit of the "Anti-Surge" Orifice can be readily demonstrated by suitable surge modelling software.

Surge Protection - Pipeline Operating

The operation of valves and similar flow control devices can cause high-pressure transients in an operating pipeline.

The unique, single chamber design of the Vent-O-Mat series RGXII valve enables a pocket of air to be trapped in the valve chamber. Automatic operation of the small orifice control float regulates the volume of air entrapped.

The volume maintained in the valve will provide a cushioning benefit to the pipeline for short duration transient pressure "spikes". This effect can be modelled by the design engineer using suitable surge software.

Computer Modelling

The effectiveness of Vent-O-Mat "Anti-Surge" technology has been substantiated by independent third party testing and by thousands of applications globally. Effective computer modelling, based on practical tests, has been ensured in the well-known and respected commercially available surge analysis software programmes such as AFT impulse, FLOWMASTER, Watham and SURGE 2000.

Technical and Financial Benefits

- 1. Improved alleviation of surge behaviour including reduction of:
 - Surge pressure magnitudes by slowing surge velocities
 - Duration of oscillation following a pump trip, as the sewage air-valve continuously absorbs and dissipates the energies of the surge.
- 2. Potential for reduction in size and/or quantity of conventional surge protection devices such as surge vessels etc.
- 3. Automatic protection during initial filling when most surge protection devices are not operational.
- 4. Holistic protection as each sewage air valve installed has design features to automatically damp surges.
- 5. The valve is virtually maintenance free.

Information subject to change without prior notice

VENT-O-MAT®

Series RGXII



PURCHASE SPECIFICATION

VENT -O- MAT MODEL NO.

- Page 6 Series RGX II (epoxy coated cast body)
- Page 8 Series RGX II (full stainless steel)

CONSTRUCTION & DESIGN

The Sewage Air Release & Vacuum Break Valve shall consist of a single chamber ductile iron or stainless steel body, stainless steel direct acting float, solid small orifice top float and "Anti-Surge" float in H.D.P.E. - A stainless steel nozzle, stainless steel top cap and E.P.D.M. rubber seals and seat.

The valve shall have an integral "Anti-Surge" Orifice mechanism which shall limit transient pressure rise or shock induced by closure to less than 1.5 x valve rated working pressure, however, must open to the full diameter of the valve size during a negative pressure.

The intake orifice area shall be equal to the nominal size of the valve i.e., a 150mm (6") valve shall have a 150mm (6") intake orifice. Large orifice sealing shall be effected by the flat face of the anti-surge control float seating against a E.P.D.M. rubber 'O' ring housed in a dovetail groove circumferentially surrounding the orifice.

Discharge of pressurized air shall be controlled by the seating & unseating of a small orifice nozzle on a E.P.D.M. rubber seal affixed into the float. The nozzle shall have a flat seating land surrounding the orifice so that damage to the rubber seal is prevented.

The valve construction shall be proportioned with regard to material strength characteristics, so that deformation, leaking or damage of any kind does not occur by submission to 1.5 times the designed working pressure. Connection to the valve inlet shall be facilitated by flanged ends conforming to ANSI B16.5 Class 150 and Screwed NPT. Flanged ends shall be supplied drilled to the Specified Standard.

OPERATION

- 1. Prior to the ingress of liquid into the valve chamber, as when the pipeline is being filled, valves shall vent through the"Anti-Surge" orifice at all times.
- 2. Valves shall be tested and not exhibit leaks or weeping of liquid past the large orifice seal at operating pressures of 0.2 bar (2.9 psi) to 1.5 x valve rated working pressure.
- 3. When the pipeline is fully charged valves shall respond to the presence of air/gas by discharging it through the small orifice at the pressures within the specified design range, and shall remain leak tight in the absence of air.
- 4. Valves shall react immediately to pipeline drainage or liquid column separation by the full opening of the large orifice so as to allow unobstructed air intake at the lowest possible negative internal pipeline pressure.



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VENT - O - MAT®	Series	RGXII						
ORDERING GUIDE								
VALVE SIZE: DN50 (2") - 050 DN80 (3") - 080 DN100 (4") - 100 DN150 (6") - 150 DN200 (8") - 200		BODY EPOXY STAINL	Y TYPE: Y COATED (304L TOP COVER) ESS STEEL (304L) ESS STEEL (316L)					
VALVE SERIES No								
VALVE PF 145 psi * 232 psi	RESSURE RATING: 10 16	VALVE END SCREWED - I FLANGED - A						
Note: 1. Valves are available wit 2. * 16Bar (232psi) only a	h threaded or flanged outlets, pleas vailable for 2" - 4"	se specify when ordering.						
	TEST SPEC	CIFICATIONS						
(A) A high pressure streng	lied shall be subjected to the follow th and leak test whereby the valve h shall be held for a period of 2 mir	is filled with water and pressu	urized to twice the rated					
	nereby the valve is filled with water lumn connected to the test rig. The es.							
"DROP TEST" - where from the test rig by clo must be filled with com isolating valve is then lower than 2 - 3 bar (2 carried out by slowly b	valve of the same size and pressu by the valve is filled with water, pre- sure of an isolating valve. A chamb pressed air at a pressure equal to opened so as to allow the air to rise 9 - 44 psi) above rated working pre- leeding off the pressure through a so om the orifice to allow discharge. F on for rejection.	essurized to above rated work er in the test rig immediately that being maintained in the a e in the air release valve withous ssure of the air release valve suitable cock until rated worki	king pressure and isolated prior to the isolating valve air release valve. The out the pressure dropping the "DROP TEST" is then ing pressure is reached and					
	rer shall provide batch certificates of onto the identity label of each value		Il be cross referenced to serial					
can be displaced which im	mpossible to inject air into an incon plies that the pressure in the test ri gh the small orifice of the air releas	g must be reduced to atmosp	pheric, and absolutely nothing is					
								

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NT - O - MAT ®	Series RG	KII	
Copy and Complete and E-mail, Fax or M	the Form Below For An International Internat	Any Additional	Information
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	Or contact us via our www.rfvalve.co		
Company Name:			
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Tel:	Fax:	Email:	
Contact Name:		Title:	
Comments:			
Produ	cts you are in	terested i	n:
VENT-O-MAT [®] Se	eries RBXc Air Release 8	Vacuum Break	/alves
	design with integral "Anti-Shoon n economical cast ductile iron o	0 0	mechanism
VENT-O-MAT [®] S	eries RBX Air Release &	Vacuum Break \	/alves
Compact stainless steel s	ingle chamber design with integ mechanism	gral "Anti-Shock" surg	e dampening
Compact stainless steel o	es RGX Series Air Relear or ductile iron single chamber de mpening mechanism for sewag	esign with integral "A	
VENT-O-MAT [®] S	Series RPS Air Release &	Vacuum Break V	alves

Glass reinforced polypropylene CATT air valve for industrial, irrigation and small reticulation sytems

VENT - D - MAT[®] AIR RELEASE & VACUUM BREAK VALVES SERIES RGXII "ANTI - SURGE"

The Unique defence against pipe bursts and pipeline system damage!

The Vent-O-Mat Series RGXII "Anti-Surge" sewage air release and vacuum break valve, is an evolution of market feedback and the incorporation of the already proven Vent-O-Mat technology which itself resulted from years of extensive research. The valve unlike many others is not just an adaption of an air valve to handle sewage valve but the result of over 30 years of dealing with sewage and seeing what works and adapting it to the needs of the end user

The basis of the Vent-O-Mat design is in the understanding of the physical laws that govern air valve and pipeline operation. Reaction to pipeline dynamics is therefore instantaneous and protection provided is relevant to the pipeline's needs.

Vent-O-Mat Series RGXII truly represents the pinnacle of valve design evolution. This valve design provides the most comprehensive, effective and efficient pipeline protection relative to initial cost of any other available pipeline component. This can easily be gauged from the below:

Automatic Surge Protection

The unique Series RGXII valve incorporates as standard, three design features to automatically protect a pipeline, under all pipeline operating conditions, from the destructive surge and water hammer phenomena. These features are independent of any mechanical devices ensuring reaction in a very low millisecond time span

Effective Air Release

The RGXII design ensures effective de-aeration under all pipeline flow and operating conditions, via either one of three discharge orifices.

Vacuum Protection

The RGXII series large orifice diameters equal the nominal size of the valve. This ensures the least possible resistance to the intake of air and consequently the least possible negative pressure within a draining pipeline. The use of solid, cylindrical floats ensures instantaneous reaction, discourages the "Venturi" phenomenon and is a further guarantee of effective vacuum protection.

Guaranteed Performance

The RGXII has been designed and developed to provide the optimum usable and safe performance relative to all functions. Selection data has been substantiated through third party testing and can therefore be confidently referenced.

The surge protection function of the RGXII design has been incorporated in the well-known **SURGE 2000** surge analysis software program and can be analyzed with great accuracy in other commercially available surge analysis programs such as FLOWMASTER and TRANSAM.

Unparalleled Service

Vent-O-Mat is committed to customer service and to the selling of solutions. Our highly dedicated team is available at all times to assist with air valve sizing and positioning. Assistance is also provided in finding the most cost effective and/or efficient surge protection strategy relevant to the pipeline's needs.

International Representation

Vent-O-Mat is represented in the following countries and regions:

* USA	* Thailand	* South Africa	* Tanzania	* Kuwait
* Canada	* Germany	* Mexico	* Hong Kong	* Brazil
* Caribbean	* Peru	* Chile	* Taiwan	* France
* United Arab Emirates	* Egypt	* Malawi	* New Zealand	* Singapore
* South America	*UK	* Zambia	* Vietnam	* Australia



RF Valves, Inc. (Hereinafter referred to as Seller) STANDARD TERMS AND CONDITIONS

1. CONTROLLING PROVISIONS: These terms and conditions shall control with respect to any purchase order or sale of Seller's products. No waiver, alteration or modification of these terms and conditions whether on Buyer's purchase order or otherwise shall be valid unless waiver, alteration or modification is specifically accepted in writing and signed by an authorized representative of Seller.

2. DELIVERY: Seller will make every effort to complete delivery of products as indicated on Sellers acceptance of an order, but Seller assumes no responsibility or liability, and will accept no back charge for loss or damage due to delay or inability to deliver caused by acts of God, war, labor difficulties, accident, delays of carriers, by contractors or suppliers, inability to obtain materials, shortages of fuel and energy or any other causes of any kind whatever beyond the control of Seller. Seller may terminate any contract of sale of its products without liability of any nature, by written notice to Buyer, in the event that the delay in delivery or performance resulting from any of the aforesaid causes shall continue for a period sixty (60) days. Under no circumstances shall Seller be liable for any special or consequential damages or for loss, damage or expense (whether or not based on negligence) directly or indirectly arising from due delays or failure to give notice of delay.

3. WARRANTY: Seller warrants RF Pinch and RF-SKG for one year and Vent-O-Mat for limited 10 years from the date of shipment Seller's manufactured products to the extent that Seller will replace those having defects in material or workmanship when used for the purpose and in the manner which Seller recommends. Vent-O-Mat 10 year limited warranty applies to internal parts only. If Seller's examination shall disclose to its satisfaction that the products are defective, and an adjustment is required, the amount of such adjustment shall not exceed the net sales price of the defective products only and no allowance will be made for labor or expense of repairing or replacing defective products or workmanship or damage resulting from same. Seller does not guarantee resistance to corrosion, erosion, abrasion, or other sources of failure, nor does Seller guarantee a minimum length of service, or that the product shall be fit for any particular service. Seller warrants the products which it sells of other manufacturers to the extent of the warranties of their respective makers. Where engineering design or fabrication work is supplied, Buyer's acceptance of Seller's design or of delivery of work shall relieve Seller of all further obligation, other than as expressed in Seller's product warranty. THIS IS SELLER'S SOLE WARRANTY, SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE WHICH EXCEED SELLER'S AFORESTATED OBLIGATION ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED FROM THIS WARRANTY. Seller neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of its engineering designs or products. This warranty shall not apply to any products or parts of products which (a) have been repaired or altered outside of Seller's factory, in any manner; or (b) have been subjected to misuse, negligence or accidents; or (c) have been used in a manner contrary to Sellers instructions or recommendations. Seller shall not be responsible for design errors due to inaccurate or incomplete information supplied on Valve Data Sheet(s) by Buyer or its representatives. The laws of the State of Maryland shall govern, apply and construe all questions and interpretations hereunder

4. SELLER'S LIABILITY: Seller will not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind, whether based upon warranty (except for the obligation accepted by Seller under "Warranty", above), contract or negligence arising in connection with the design, manufacture, sale, use or repair of the products or of engineering designs supplied to Buyer.

5. STORAGE: Valves shall be stored indoors free from job site dirt, mud, and temperature changes. If indoor storage is not possible, the valve must be stored above possible water or snow level and remain covered in the original shipping container. Failure to store valves in this fashion or to follow storage requirements for electrical components or other auxiliary equipment will void their warranty.



RETURNS: Seller cannot accept return of any products unless it has been issued a Returned Goods Authorization (RGA) number and form from RF Valves' Customer Service Dept. at (410) 850-4404 or email to Support@rfvalve.com.

All credits for returned goods are subject to the following: (a) All material returned must be clearly marked with the RGA#, and on its arrival at Seller's plant, be found to be in first-class condition; if not, cost of putting in salable condition will be deducted from credit memoranda; (b) a minimum \$50 or 5% handling charge will be made from all credit memoranda issued for material returned; (c) Transportation charges, if not prepaid, will be deducted from credit memoranda.

Credits, subject to above, apply only within 90 days after shipment: i) 75% – standard manual/air release valve(s), in original packaging ii) 50% – standard automated valve(s), in original packaging iii) 75% – standard accessories unused

iv)Special purpose valve(s) or accessories designed to customer specifications returned for non-warranty reasons – credit determined on a case-by-case basis subject to inspection.

6. ORDER CANCELLATIONS or CHANGE ORDERS: <u>Cancellations</u> subject to the following charges as a percentage of total order amount; 10% order entered; 30% released for manufacture; 50% assembly in process or awaiting shipment, unless product is a non-standard, special purpose valve, in which case 100% or as agreed upon in writing case-by-case. <u>Change Orders</u> – Changing standard accessories, manufacturer's re-stocking fee, plus cost of new item(s). Change of valve structure or design from standard valve design or following release to manufacture, 25% of order; 50% of order when assembly in process or awaiting shipment, unless product a non-standard, special purpose valve, in which cost agreed upon in writing on case-by-case basis.

7. SHIPMENTS: All products sent out will be carefully examined, counted and packed. The cost of any special packing or special handling caused by Buyer' requirements or requests shall be added to the amount of the order. No claim for shortages will be allowed unless made in writing within ten (10) days of receipt of shipment. Claims for products damaged or lost in transit should be made on the carrier, as Seller's responsibility ceases, and title passes, on delivery to the carrier.

 SPECIAL PRODUCTS: Orders covering special or non-standard products are not subject to cancellation except on such terms as Seller may specify on application.

9. PRCES AND DESIGNS: Prices and designs are subject to change without notice. All prices are F.O.B. Point of Shipment, unless otherwise stated. In the absence of a special agreement, Buyer agrees to pay 1.5% monthly interest on all past due invoices. If Seller shall have any doubt at any time as to Buyer's financial responsibility, Seller may decline to make deliveries except of cash or satisfactory security.

10. TAXES: The amount of any sales, excise, or other taxes, if any, applicable to the products covered by this order, shall be added to the purchase price and shall be paid by Buyer unless Buyer provides Seller with an exemption certificate acceptable to the taxing authorities.

11. MINIMUM ORDER: \$500.00 plus transportation on complete valve assemblies. \$50 plus transportation on replacement spare parts. 12. TERMS: Cash, net 30 days unless otherwise specified

WARNING - RF Valves, Inc. VALVES ARE DESIGNED AND MANUFACTURED USING GOOD WORKMANSHIP AND MATERIALS, AND MEET INDUSTRY STANDARDS. THESE VALVES ARE AVAILABLE WITH COMPONENTS OF VARIOUS MATERIALS, AND THEY SHOULD BE USED ONLY IN SERVICES RECOMMENDED BY A COMPANY VALVE ENGINEER, MISAPPLICATION OF THE PRODUCT MAY RESULT IN INJURIES (INCLUDING DEATH) OR PROPERTY DAMAGE, A SELECTION OF VALVE COMPONENTS OF THE PROPER MATERIAL CONSISTENT WITH THE PARTICULAR PERFORMANCE REQUIREMENT IS IMPORTANT FOR PROPER APPLICATION. IF THE VALVE EXHIBITS ANY INDICATION OF LEAKAGE, DO NOT OPERATE. ISOLATE VALVE AND FITHER REPAIR OR REPLACE

Revised: April 2015

