

# **SERIES RGXII**

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

FOR EFFECTIVE AIR RELEASE, VACUUM PROTECTION AND SURGE ALLEVIATION



### **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
- Canada
- \* Caribbean
- \* United Arab Emirates
- \* Germany

\* Thailand

- \* Kenya
- \* Egypt
- South Africa
- \* Zimbabwe
- \* Malawi
- \* Namibia \* Hong Kong
- \* Taiwan
- \* New Zealand
- **Kuwait**
- Brazil
- France
- Singapore

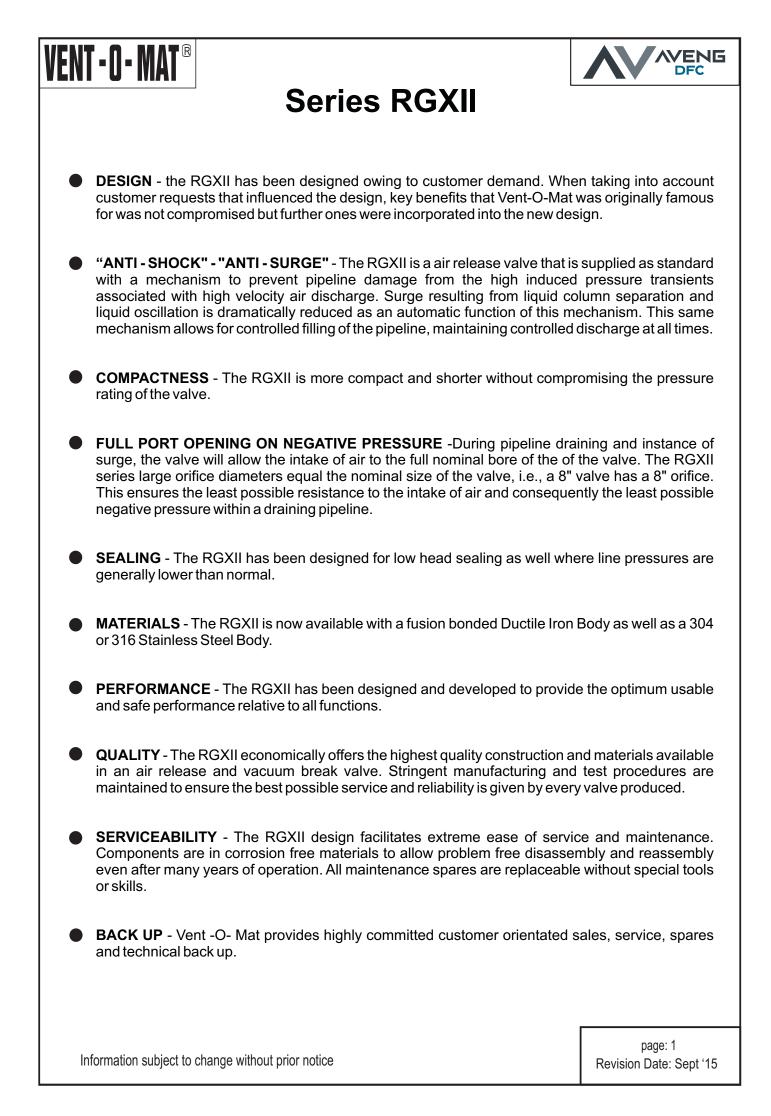
Tanzania

# VENT-0-MAT<sup>®</sup>



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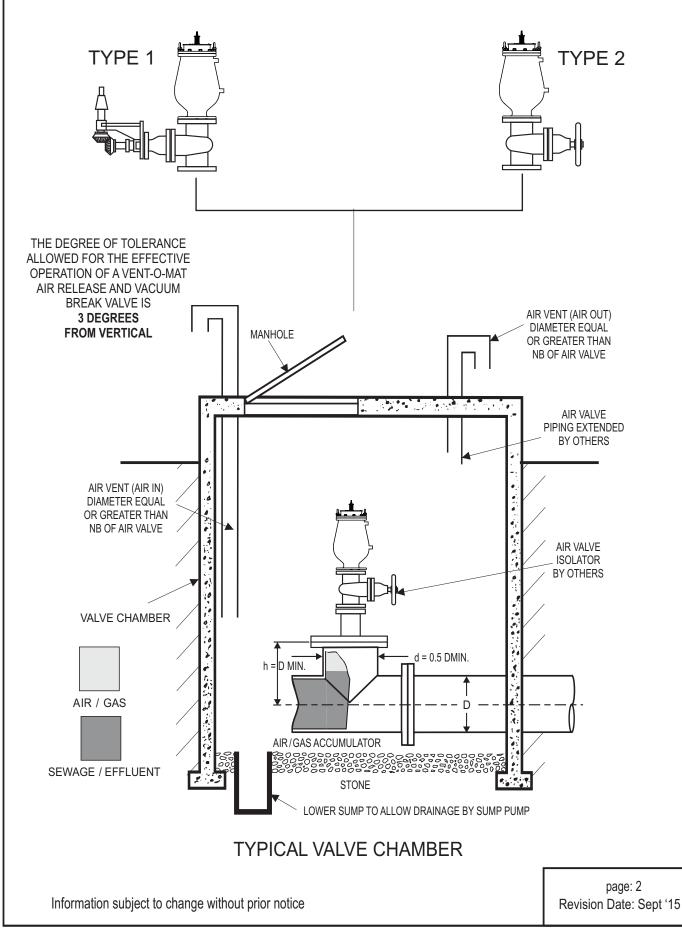
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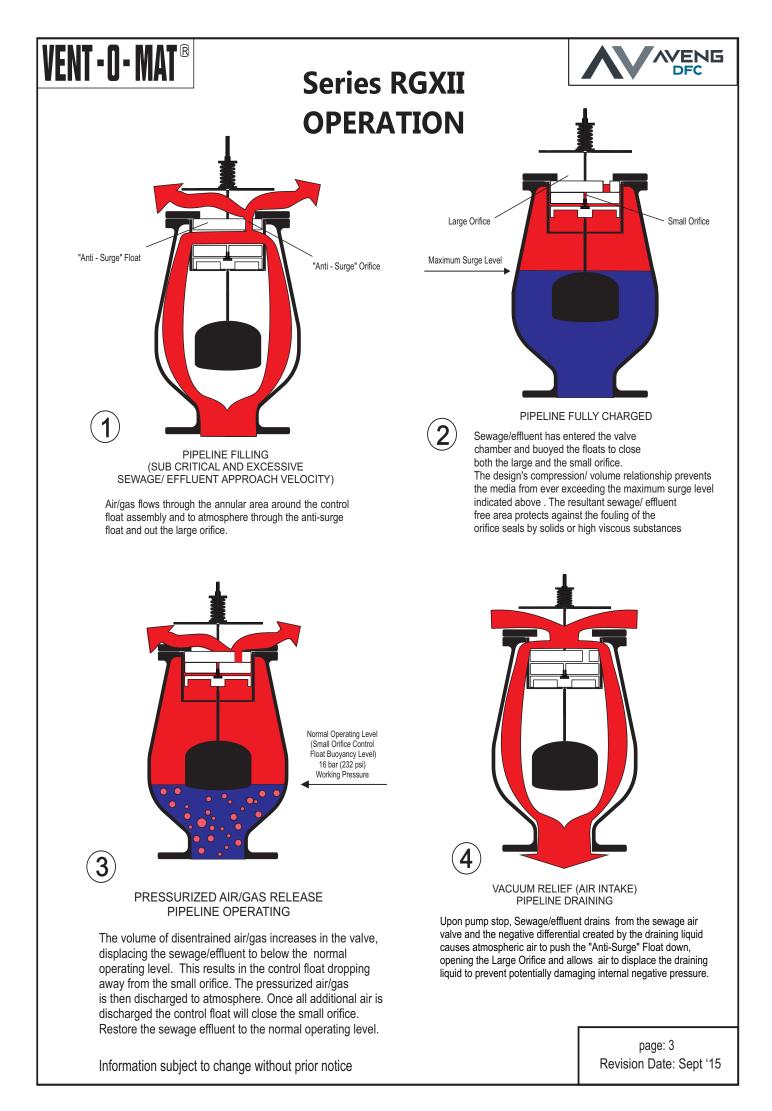


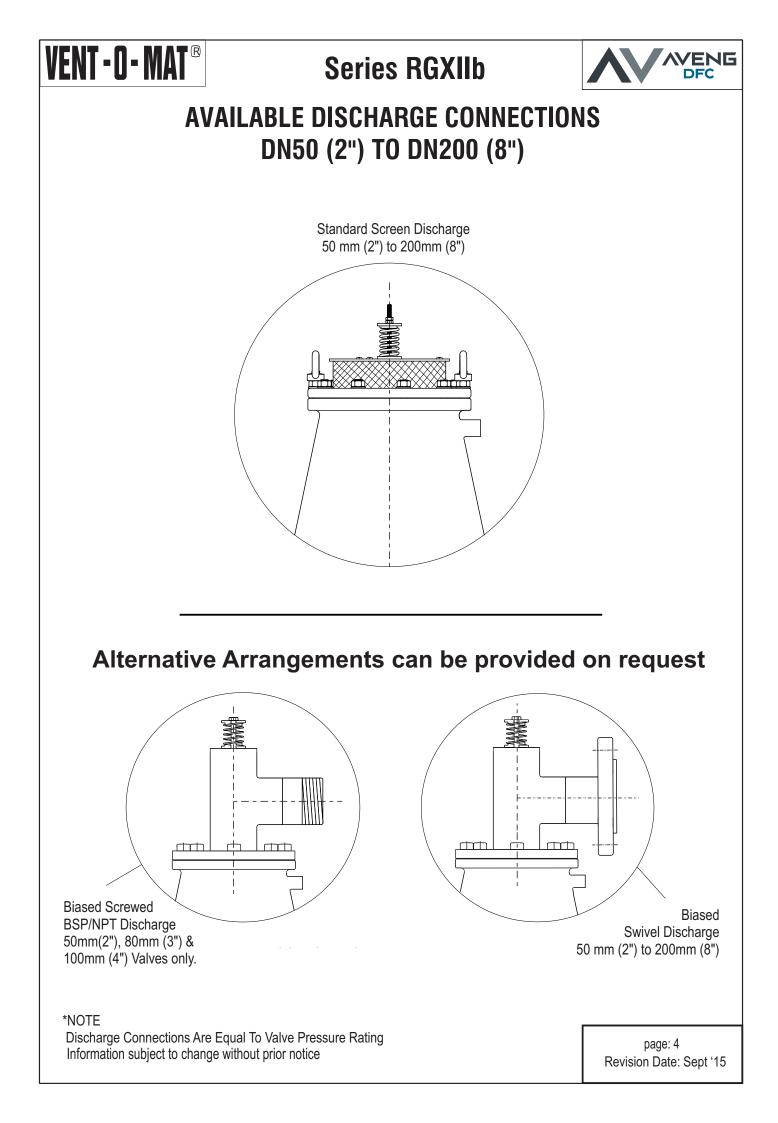
**Series RGXII** 

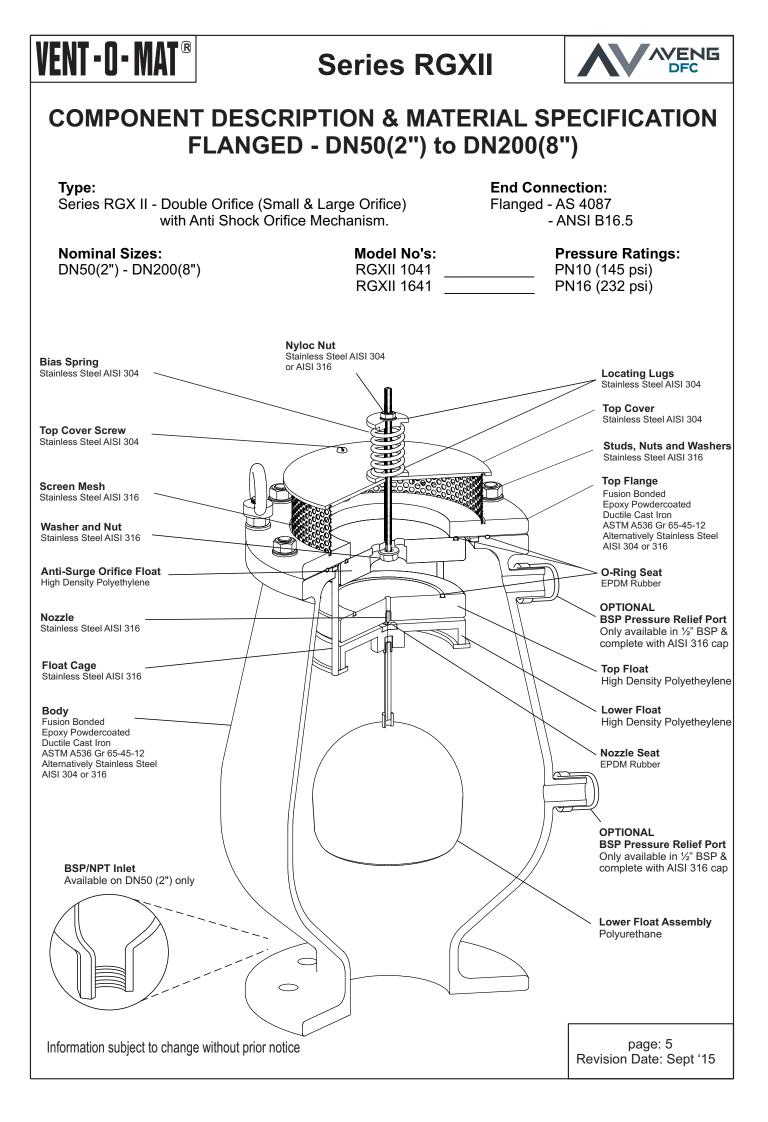


### **RECOMMENDED INSTALLATION ARRANGEMENTS**





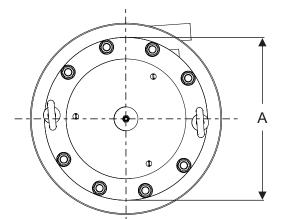


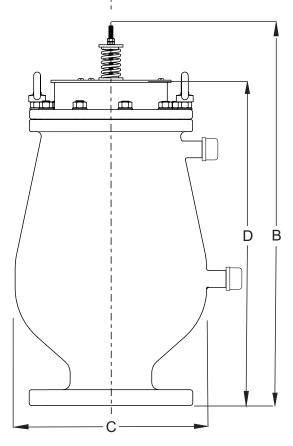


## Series RGXII



### GENERAL SPECIFICATIONS FLANGED - DN50 (2") to DN200 (8")





### Type:

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

### End Connection: Flanged

AS 4087 Fig B5 (Ductile Cast Iron)

#### Nominal Sizes:

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

Model No's:	Pressure Ratings - bar (psi):
RGX II 1041	PN10 (145psi)
RGX II 1641	PN16 (232psi)

### Operating Pressure Range - psi:

 Min
 Max.

 PN10 (145 psi)
 0.2 (2.9)
 10 (145)

 PN16 (232 psi)
 0.2 (2.9)
 16 (232)

 (Lower operating pressures can be accommodated, please state when ordering)
 10

### 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 9

Materials of Construction:- Page 5

#### Installation:- Page 2

#### Standard Factory Tests:

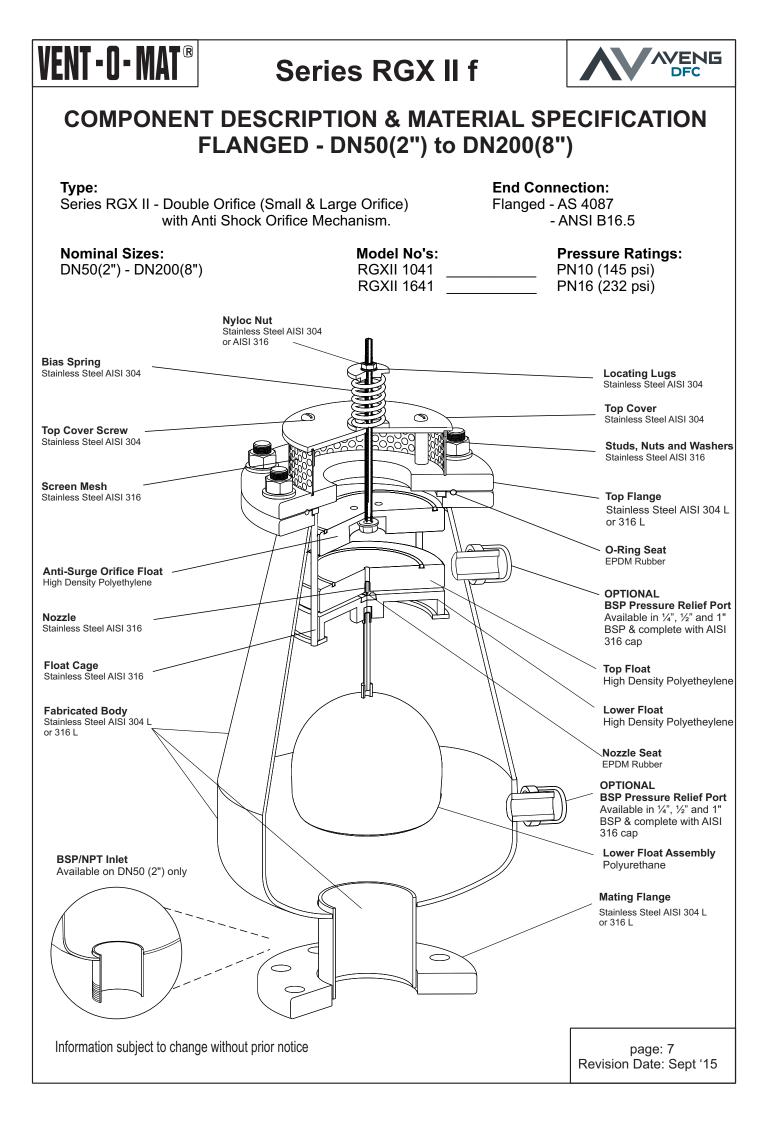
- i) Hydrostatic test -1.5 x max. rated working pressure
- ii) Low head leak test 0.2 bar (2.9 psi)
- iii) Small orifice function test at max. rated working pressure (minimum 1 valve in 10).

### **OVERALL DIMENSIONS & WEIGHTS**

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

Information subject to change without prior notice

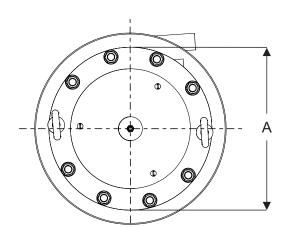
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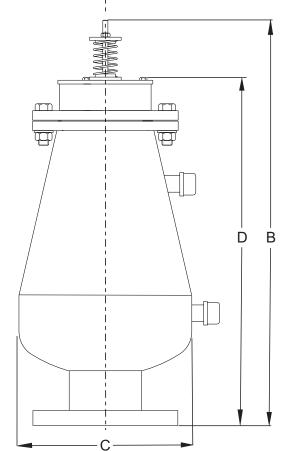


## Series RGXII f



### GENERAL SPECIFICATIONS FLANGED - DN50 (2") to DN200 (8")





### Type:

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

### End Connection: Flanged

AS4087 Fig B7 (Stainless Steel)

### Nominal Sizes:

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

Model No's:	Pressure Ratings - bar (psi):
RGX II f 1041	PN10 (145psi)
RGX II f 1641	PN16 (232psi)

### **Operating Pressure Range** - psi:

 Min
 Max.

 PN10 (145 psi)
 0.2 (2.9)
 10 (145)

 PN16 (232 psi)
 0.2 (2.9)
 16 (232)

 (Lower operating pressures can be accommodated, please state when ordering)
 10 (145)

### 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 9

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

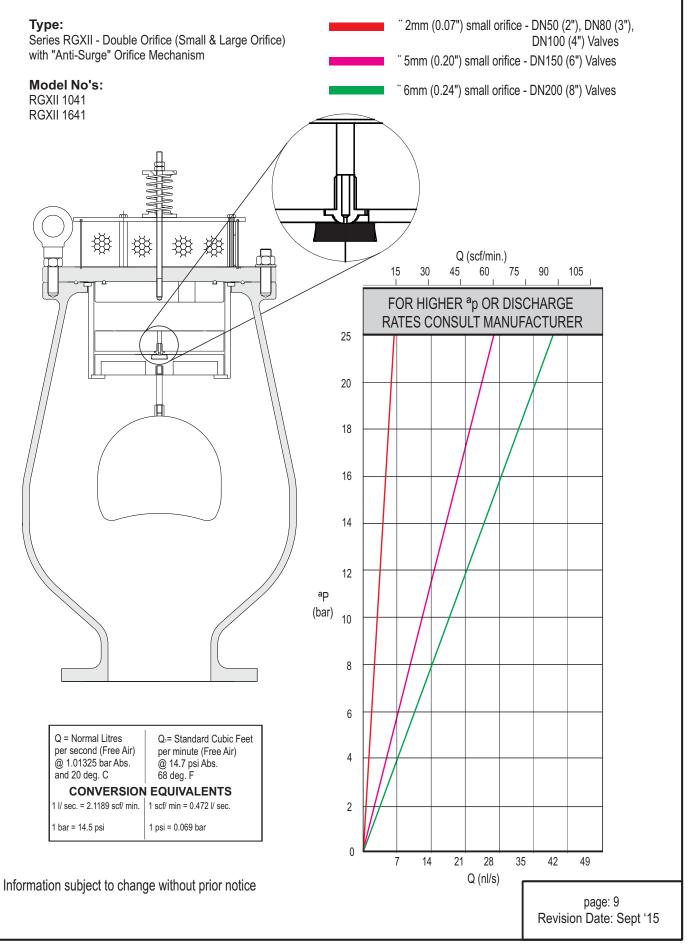
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page: 8 Revision Date: Sept '15

### **Series RGXII**



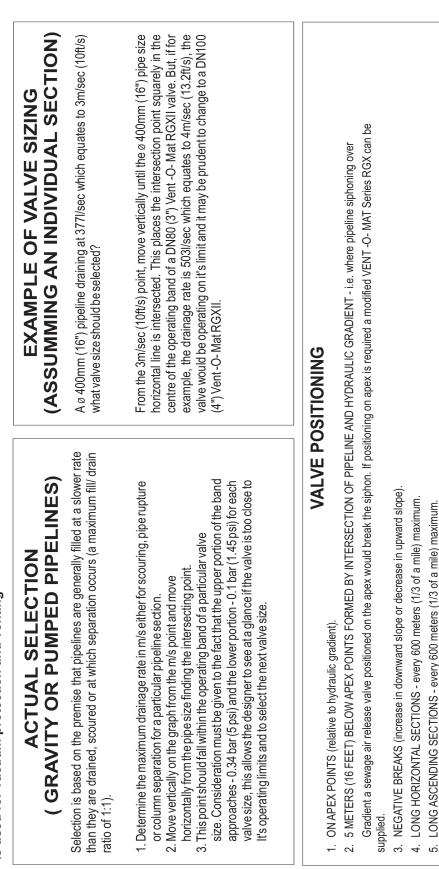
## SMALL ORIFICE DISCHARGE PERFORMANCE





time to allow flexibility to the designer to move within certain parameters which eventually allows the most suited and economically All the relevant information has been condensed into one graph to enable valve selection to be simple and easy and at the same viable valve to be selected.

change in altitude and hence change in atmospheric pressure and is based on the assumption that more than one valve per section MPORTANT NOTE: The graph is based on vacuum breaking and limiting vacuum to 0.34 bar (5 psi) below atmospheric. It is not good practice to go below 0.69 bar (10 psi) absolute (0.303bar (4.4 psi) differential in pipeline at sea level). The graph allows for is used for vacuum protection and venting



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by a blind flange or a valve.

PUMP DISCHARGE (not shown in diagram) - just subsequent to non return valve.

BLANK ENDS (not shown in diagram) - where a pipeline is terminated

LONG DESCENDING SECTIONS - every 600 meters (1/3 of a mile) maximum.

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VALVE

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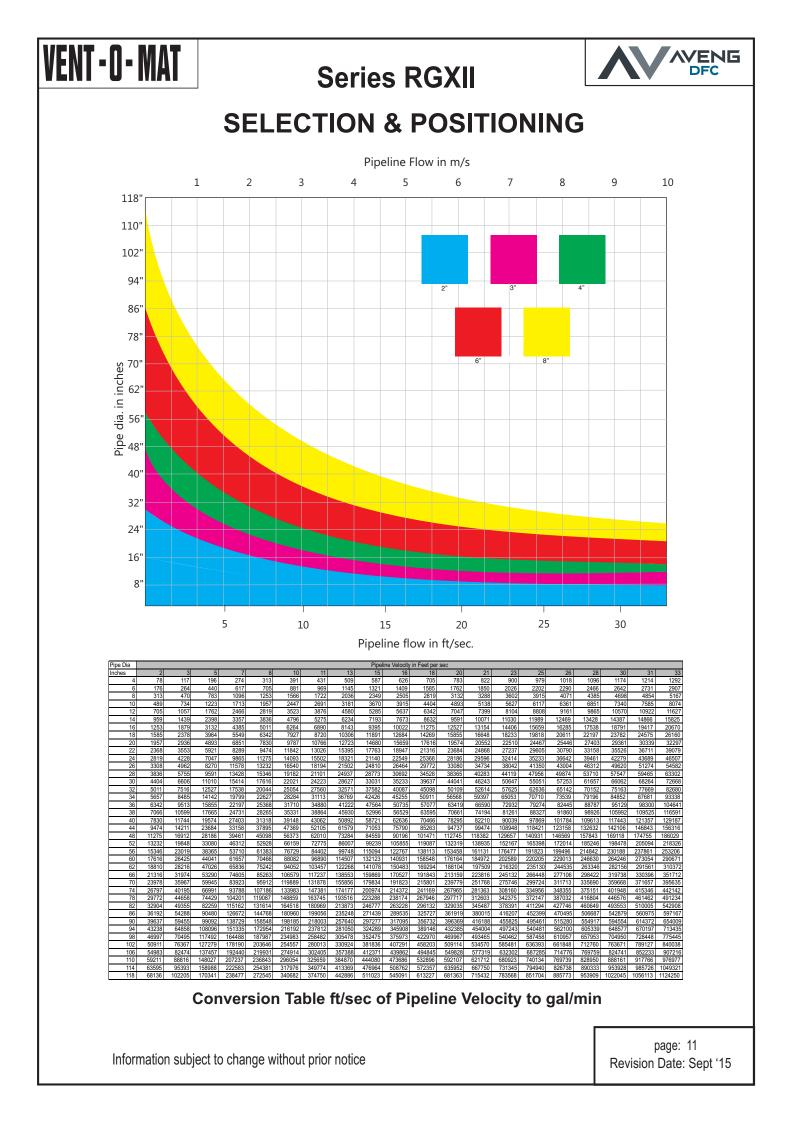
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### Series RGXI

## **SELECTION & POSITIONING**





## Series RGXII



## **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 pages 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

# Series RGXII



## PURCHASE SPECIFICATION

VENT -O- MAT MODEL NO. Page 5 - Series RGX II

### **CONSTRUCTION & DESIGN**

The Sewage Air Release & Vacuum Break Valve shall consist of a 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-shock 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 PN10, PN16, ratings of BS EN 1092 or SABS 1123 Standards or ANSI B16.5 Class 150. AS 4087 Fig. B5/B7, AS 2129. 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.

VENT-O-MAT®										
ORDERING GUIDE										
VALVE SIZE: DN50 (2") - 050 DN80 (3") - 080 DN100 (4") - 100 DN150 (6") - 150 DN200 (8") - 200 VALVE SERIES No		FLANGED - AN	CTING 1 <b>DNNECTION:</b> SP 1 PT 2 4504 OR SABS 1123 0 ISI B16. 5 3 4087 Fig. B5/ B7 4							
	TEST SPECIFICATION	N								
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			page: 14							



### VENT-O-MAT<sup>®</sup> Series RBXc Air Release & Vacuum Break Valves

Compact Single chamber design With Integral "Anti-Shock" surge dampening mechanism in an economical cast Ductile iron construction

### VENT-O-MAT<sup>®</sup> Series RBX Air Release & Vacuum Break Valves

Compact Stainless Steel single chamber design with integral "Anti-Shock" surge dampening Mechanism

VENT-O-MAT<sup>®</sup> Series RGX Series Air Release & Vacuum Break Valves Compact Stainless Steel or Ductile Iron single chamber design with integral "Anti-Shock" surge dampening mechanism for sewage applications

### **VENT-O-MAT® Series RPS Air Release & Vacuum Break Valves**

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

# VENT-O-MAT<sup>®</sup>

## STANDARD TERMS AND CONDITIONS

Vent-O-Mat Australia takes pride in the quality of its products and its services to customers. Customers are requested to inform Vent-O-Mat Australia if an order is incorrectly delivered or if there is dissatisfaction with the goods.

As a part of our quality procedures, it is important that Vent-O-Mat Australia and the customer agree on the terms on which business is to be transacted. These terms and conditions are current for trading with Vent-O-Mat Australia at the time of issue, however the terms and conditions may vary from time to time.

#### 1. Interpretation

In these conditions unless the contrary intention appears:

"Additional Charges" includes all delivery, handling and storage charges, goods and services

tax, stamp duty, interest, legal and other costs of recovery of unpaid money and all other

government imposts and all money, other than the Purchase Price, payable by the Customer to

Vent-O-Mat Australia arising out of the sale of the Goods.

"Customer" means the person to or for whom the Goods are to be supplied by Vent-O-Mat Australia.

"Goods" means the goods sold to the Customer by Vent-O-Mat Australia.

"Vent-O-Mat Australia" means Vent-O-Mat Australia Pty Limited, ABN 20114 575 101.

"Purchase Price" means the list price for the goods as charged by Vent-O-Mat Australia at the

date of delivery or such other price as may be agreed by Vent-O-Mat Australia and the Customer

prior to delivery of the Goods.

#### 2. Order for Goods

2.1 An order given to Vent-O-Mat Australia is binding on Vent-O-Mat Australia and the **Customer**, if:

2.1.1 a written acceptance is signed for or on behalf of Vent-O Mat Australia; or

2.1.2 the Goods are supplied by Vent-O-Mat Australia in accordance with the order. 2.2 An acceptance of the order by Vent-O-Mat Australia is then to be an acceptance of these conditions of sale by Vent-O-Mat Australia and the Customer and these conditions of sale will override any conditions contained in the Customer's order. Vent-O-Mat Australia reserves the right to accept a part only of any order by notifying the Customer in writing or by delivering the Goods to the Customer. No order is binding on Vent-O-Mat Australia until accepted by it.

2.3 An order which has been accepted in whole or in part by Vent-O-Mat Australia cannot be cancelled by the Customer without obtaining the prior written approval of Vent-O-Mat Australia, which it may refuse in its absolute discretion.

#### 3. Warranties

3.1 Certain laws imply terms, conditions and warranties ("Prescribed Terms") into contracts for the supply of goods and prohibit the exclusion, restriction or modification of such terms, conditions and warranties. The liability of Vent-O-mat Australia in respect of a breach of a Prescribed Term or any warranty made under these terms and conditions is limited, to the extent permissible by law and at the option of Vent-O-Mat Australia, to the:

3.1.1 replacement of the Goods:

3.1.2 payment of the cost of replacing the Goods; or

3.1.3 refund of the Purchase Price paid by the Customer.

3.2 Any claims to be made against Vent-O-Mat Australia for short delivery of Goods must be lodged with Vent-O-Mat Australia in writing within 7 days of the delivery date. 3.3 Vent-O-Mat Australia warrants that it will repair or make good any defects in the materials or workmanship of the Goods arising under normal and reasonable condition of use within ninety (90) days of the date of delivery of the Goods provided written notice of the claim is received by Vent-O-Mat Australia as soon as reasonably possible after the defect is discovered.

3.4 Unless the terms and warranties are included in these standard terms and conditions, all prior discussions, quotations, warranties and Prescribed Terms, to the extent permitted by law, are excluded.

#### 4. Product Testing

4.1 In the event that the Customer, in its order, has requested that Vent-O-Mat Australia conduct special tests on the Goods prior to delivery, or that tests on the Goods be conducted in the presence of the Customer prior to delivery, Vent-O-Mat Australia may, in its discretion, increase the Additional Charges for the cost of such tests.

4.2 The Customer must attend Vent-O-Mat Australia's premises for any testing of the Goods upon the written notice of Vent-O-Mat Australia. Should the Customer not attend Vent-O-Mat Australia's

premises within 7 days of such notice, Vent-O-Mat Australia may deliver to and invoice the Customer for the Goods.

#### 5. Delivery

5.1 The times quoted for delivery are estimates only and Vent-O-Mat Australia accepts no liability for failure or delay in delivery of Goods. The Customer is not relieved of any obligation to accept or pay for Goods by reason of any delay in delivery. Goods may be delivered by instalments at the discretion of Vent-O-Mat Australia. 5.2 Risk in accepting the Goods passes on delivery to the Customer.

5.3. All Additional Charges are payable by the Customer in addition to the Purchase Price of the Goods.

5.4. Return of Goods will not be accepted by Vent-O-Mat Australia except by prior agreement in writing with Vent-O-Mat Australia. Any Goods returned will be subject to a restocking charge of 15% of the Purchase Price of those Goods.

#### 6. Price and Payment

6.1 The Customer must pay the Purchase Price and the Additional Charges to Vent-O-Mat Australia.

6.2 If the Customer is in default, Vent-O-Mat Australia may at its option withhold further deliveries or cancel a contract without prejudice to any of its existing rights. 6.3 All payments are due within 30 days from invoice date. Interest maybe charged at the rate of 1.5% per month or part of a month from the expiry of that period until the date payment is received by Vent-O-Mat Australia.

#### 7. Retention of Title

7.1 Ownership, title and property of the Goods remains with Vent-O-Mat Australia until payment in full for the Goods and all sums due and owing by the Customer to Vent-O-Mat Australia on any account has been made. Until the date of payment:

7.1.1 the Customer has the right to sell the Goods in the ordinary course of business; 7.1.2 until the Goods have been sold by the Customer in the ordinary course of the Customer's business, the Customer holds the Goods as bailee for Vent-O-Mat Australia; 7.1.3 the Goods are always at the risk of the Customer.

7.2 The Customer is deemed to be in default immediately upon the happening of any of the following events:

7.2.1 if any payment to Vent-O-Mat Australia is not made promptly before the due date for payment;

7.2.2 if the Customer ceases to carry on business or stops or suspends payment or states its intention of so doing or is unable to pay its debts as they fall due or if any cheque or bill of exchange drawn by the Customer payable to Vent-O-Mat Australia is dishonoured;

7.3 In the event of a default by the Customer, then without prejudice to any other rights which Vent-O-Mat Australia may have at law or under this contract: 7.3.1 Vent-O-Mat Australia or its agents may without notice to the Customer enter the Customer's premises or any premises under the control of the Customer for the purposes of recovering the Goods.

7.3.2 Vent-O-Mat Australia may recover and resell the Goods;

7.3.3 if the Goods cannot be distinguished from similar Goods which the Customer has or claims to have paid for in full, Vent-O-Mat Australia may in its absolute discretion seize all goods matching the description of the Goods and hold same for a reasonable period so that the respective claims of Vent-O-Mat Australia and the Customer may be ascertained. Vent-O-Mat Australia must promptly return to the Customer any goods the property of the Customer and Vent-O-Mat Australia is in no way liable or responsible for any loss or damage to the Goods or for any loss, damage or destruction to the Customer's business howsoever arising from the seizure of the Goods.

7.3.4 In the event that the Customer uses the Goods in some manufacturing or construction process of its own or some third party, then the Customer must hold such part of the proceeds of sale of such manufacturing or construction process as relates to the Goods in trust for Vent-O-Mat Australia. Such part will be an amount equal in dollar terms to the amount owing by the Customer to the Vent-O-Mat Australia at the time of the receipt of such proceeds. The Customer will pay Vent-O-Mat Australia such funds held in trust upon the demand of Vent-O-Mat Australia.

#### 8. Goods and Services Tax

Goods and Services Tax (GST) will be shown separately in the tax invoice for the sale of the Goods. The amount of GST payable in respect of the supply of the Goods is payable by the Customer. The Customer must indemnify Vent-O-Mat Australia in respect of GST paid and payable by Vent-O-Mat Australia for the supply of the Goods.

#### 9. General

9.1 These terms and conditions are to be construed in accordance with the laws from time to time in the State of New South Wales and the Commonwealth of Australia. 9.2 These standard trading conditions contain all of the terms and conditions of the contract between the parties and may only be varied by agreement in writing between the parties

9.3 Any conditions found to be void, unenforceable or illegal may, to that extent be severed from the Agreement.

9.4 No waiver of any of these terms and conditions or failure to exercise a right or remedy by Vent-O-Mat

Australia will be considered to imply or constitute a further waiver by Vent-O-Mat Australia of the same or any other term, condition, right or remedy.





VENT-O-MAT AUSTRALIA (PTY) LTD P. O. Box 156 SEVEN HILLS NSW1730 SYDNEY AUSTRALIA

> Tel: (+61 2) 8814 9699 Fax: (+61 2) 8814 9666

www.ventomat.com.au jkerrigan@ventomat.com.au



Revision Date Sept 2015 Catalogue RGXII 0002