



Cost Effective and Reliable Source For Instrumentation Rising Stem Plug Valves



Advanced Technology in design, development and production of world class quality Fittings and Valves for Instrumentation, Process Tubing etc. ensure A TOTAL CUSTOMER SATISFACTIONS

INTRODUCTION





SEALEXCEL (INDIA) PVT. LTD. A fast growing manufacturing company having over 35 years of experience and expertise with advanced technology in Design, Development and Manufacturing World Class consistent and reliable quality Tube Fitting and Valves used in Fluid/Gas Control System in Industries like Automobile, Chemicals, Petrochemicals, Oil & Gas, Marine, Food, Biotechnology, Pharmaceutical, Packaging and Printing Industries etc.

SEALEXCEL

We have two well-equipped modern manufacturing plant including in-house product performance testing facilities to check and verify the maximum safety and consistent reliable performance under adverse, harsh, stressful environments like vibrations, high pressure, deep vacuum and thermal shock etc.

RESEARCH & DEVELOPMENT

By continuous Research & Development with advanced technology and high tech cutting edge machineries. SEALEXCEL produce best quality products for its customers.

QUALITY

SEALEXCEL's total quality system and control from incoming raw material inspection through ongoing quality assurance during production, final inspection, assembly, testing, packing and dispatch ensure high standard quality products which has earned us various quality certifications such as

- ISO 9001:2015
- PED 2014/68/EU
- ATEX
- OHSAS 18001 (Safety)
- ISO 14001 (Environment)

SEALEXCEL products are validated by type testing in accordance with

- ASTM F 1387-99(2012)
- MSS SP-99-2016a
- ECE R110, ISO 15500
- BS4368:4:1984
- Helium Leak Test
- - ARAI Test Report

CUSTOMER SATISFACTION

We strive for Total Customer Satisfaction and continuously work to set of goals to provide the best quality and delivery of products and services in the best interest of our customers.

RISING STEM PLUG VALVES : SERIES - RSV111



- Available in material SS316, all wetted parts in accordance with NACE MR01-75
- · Heat Code Traceable to certified material test report
- Bar Stock Body Straight Patterns
- Straight through orifice hence roddable for easy cleaning
- Replaceable seals and seats
- Stem dust seal protect stem from external contamination.
- · Rolled and plated thread for greater strength and smoother operation
- · Packing below the threads prevents lubricant washout.
- Panel mounted feature optional
- Gauge ports available
- Variety of end configuration includes SEALEXCEL^a Well-Lokä Tube Fittings, Male / Female NPT, BSPT and BSPP pipe connection.
- Orifice size : 0.187" (4.8mm) and 0.250" (6.4mm)
- · Every valve is factory tested

OPERATING PARAMETERS

Pressure Rating Temperature Rating : upto 6000 psig (413 bar) at CWP : -29°C to 204°C with PEEK or Acetal seat material and Viton^a O-Rings

STEM TYPE

SEALEXCEL^a Rising Stem Plug Valves are available with non-rotating stem tips which provides positive sealing and maximum soft seat life.

MATERIAL OF CONSTRUCTIONS

No.	Component	Material
1	Bar Handle	SS316
2	Set Screw	SS316
3	Dust Seal	Viton ^ª
4	Bonnet	SS316
5	Lock Nut	SS316
6	Stem Shank	SS316
7	Stem Tip	SS316
8	0-Ring	Viton ^ª
9	Back-up Ring	PTFE
10	Valve Seat	Acetal
11	Body	SS316

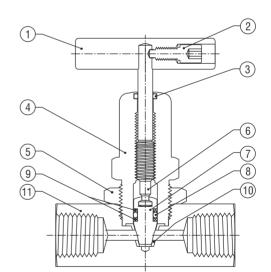
TESTING

Standard Test : Each valve is factory tested with nitrogen at 1000 psig (69 bar) for leakage at the seat.
Stem and body seals are tested to a requirements of no detectable leakage using a liquid leak detector.



APPLICATIONS

- General Plant Service
- Instrumentation
- Pressure measurement devices
- Venting





RISING STEM PLUG VALVES : SERIES - RSV111



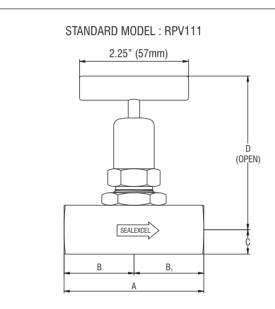
TECHNICAL DATA

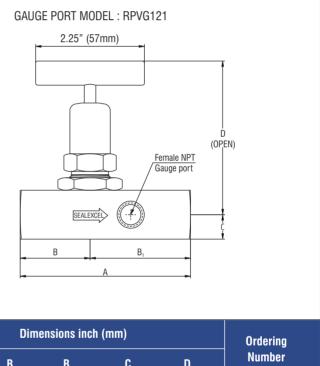
Pressure-Temperature Ratings are based on standard stem tip of Viton O-ring and PTFE back-up rings.

Body Material	SS316			
Seat	Acetal	PEEK	PTFE	
Temperature °F(°C)	Working Pr	·)		
-20 to 100 (-28 to 37)	6000 (413)	6000 (413)	750 (51.6)	
200 (93)	2650 (182)	3000 (206)	625 (43.0)	
250 (121)	1000 (68.9)	1600 (110)	450 (31.0)	
300 (148)	-	1300 (89.5)	300 (20.6)	
350 (176)	-	1200 (82.6)	200 (13.7)	
400 (204)	-	1000 (68.9)	100 (6.8)	

O-ring Material	Temperature Range °F(°C)
Buna-N	-20 to 250(-28 to 121)
EPDM	-20 to 250 (-28 to 121)
Viton ^ª	-20 to 400 (-28 to 204)

Temperature Range For O-ring materials





STANDARD CONFIGURATION DIMENSIONS

End Connections		0	0	Dimensions inch (mm)				Ordering	
Inlet	Outlet	Orifice Cv	A	В	B ₁	C	D	Number	
1/4" Female NPT	1/4" Female NPT	0.187" (4.8)	0.63	2.24(56.9)	1.12(28.4)	1.12(28.4)	0.44(11.2)	3.77(95.8)	RPV111-FF4N
1/4" Female NPT	1/4" Female NPT	0.187" (4.8)	0.63	2.87(72.9)	1.12(28.4)	1.75(44.4)	0.50(12.7)	3.77(95.8)	RPVG121-FF4N
1/2" Female NPT	1/2" Female NPT	0.250" (6.4)	1.80	2.66(67.6)	1.33(33.8)	1.33(33.8)	0.56(14.2)	3.83(97.3)	RPV111-FF8N
1/2" Female NPT	1/2" Female NPT	0.250" (6.4)	1.80	3.58(90.9)	1.33(33.8)	2.25(57.2)	0.56(14.2)	3.83(97.3)	RPVG121-FF8N
1/4" Male NPT	1/4" Female NPT	0.187" (4.8)	0.63	2.90(73.4)	1.78(45.2)	1.12(28.4)	0.44(11.2)	3.77(95.8)	RPV111-MF4N
1/2" Male NPT	1/4" Female NPT	0.187" (4.8)	0.63	3.01(76.5)	1.89(48.0)	1.12(28.4)	0.44(11.2)	3.77(95.8)	RPV111-M8F4N
1/2" Male NPT	1/4" Female NPT	0.187" (4.8)	0.63	4.87(124)	3.12(79.2)	1.75(44.4)	0.50(12.7)	3.77(95.8)	RPVG121-M8F4N
1/2" Male NPT	1/2" Female NPT	0.250" (6.4)	1.80	3.49(88.6)	2.16(54.9)	1.33(33.8)	0.56(14.2)	3.83(97.3)	RPV111-M8F8N
1/2" Male NPT	1/2" Female NPT	0.250" (6.4)	1.80	5.58(142)	3.33(84.6)	2.25(57.2)	0.56(14.2)	3.83(97.3)	RPVG121-M8F8N
3/4" Male NPT	1/2" Female NPT	0.250" (6.4)	1.80	3.49(88.6)	2.16(54.9)	1.33(33.8)	0.56(14.2)	3.83(97.3)	RPV111-M12F8N
3/4" Male NPT	1/2" Female NPT	0.250" (6.4)	1.80	5.58(142)	3.33(84.6)	2.25(57.2)	0.56(14.2)	3.83(97.3)	RPVG121-M12F8N

ORDERING INFORMATION



VALVE DESCRIPTION	ORDERING NUMBER FOR TUBE CONNECTIONS	ORDERING NUMBER FOR PIPE END CONNECTIONS
RISING STEM PLUG VALVES	<u>RPV111</u> - <u>TT 8-E V C</u> 1 2 3 5 6 7	<u>RPV111</u> - <u>MF</u> 4 <u>N-E</u> <u>V</u> <u>C</u> 1 2 3 4 5 6 7

1. VALVE SERIES CODE DESCRIPTION

RISING STEM PLUG VALVES SERIES : STRAIGHT MODEL - RPV111 : GAUGE PORT MODEL - RPVG121

2. END CONNECTION TYPE CODE DESCRIPTION

- TT SEALEXCEL^a Well-Lokä Tube Fittings
- MM Male pipe thread
- FF Female pipe thread
- MT Male pipe thread to SEALEXCEL^a Well- Lokä Tube Fittings
- MF Male pipe thread to Female pipe thread
- TSW Tube Socket Weld Pipe

3. END CONNECTION SIZE CODE DESCRIPTION TUBE OD SIZE

FRACT	IONAL	METRIC		
SIZE	CODE	SIZE	CODE	
1/4"ODT	4	6mm ODT	6M	
3/8"ODT	6	8mm ODT	8M	
1/2" ODT	8	10mm ODT	10M	
3/4"ODT	12	12m ODT	12M	
1" ODT	16	16mm ODT	16M	

PIPE THREAD SIZE

SIZE	CODE	SIZE	CODE
1/8"	2	1/2"	8
1/4"	4	3/4"	12
3/8"	6	1"	16

Viton^a is the registered trademark of Dupont

4. PIPE THREAD TYPE CODE DESCRIPTION

- N Male / Female NPT
- RT Male / Female BSPT
- RG Female BSP
- SE SAE Straight Thread

5. MATERIAL OF CONSTRUCTIONS

- E SS316
- EL SS316 to NACE MR01-75

6. O-RING SEAL MATERIAL

- B Buna-N
- P EPDM
- V Viton^å

7. VALVE SEAT MATERIAL

- K Peek
- C Acetal

SEALEXCEL's commitment to upgrading it's product range by way of continuous research and development programme with advance technology and cutting edge solutions to ensure best quality products at competitive price and also best delivery schedule for it's customer with objective of

A TOTAL CUSTOMER

SATISFACTIONS

PRODUCT RANGE



Twin/Single Ferrule Tube Fittings	37° Flare Tube Fittings To SAE J514	Instrument Threaded & Welded Pipe Fittings	Tube Fittings With Integral Flange	Low /Medium PressureBall Valves
High Pressure Ball Valve	High Pressure 2/3 Way Ball Valve	Needle Valve	Needle Valves (Panel Mountable)	High Pressure Needle Valve
Rising Stem Plug Valves	Gauge/Root Valves	Instrument 2/3/5 Manifold Valves	Monoflange Valves	Single / Double Block & Bleed Valves
Purge Valves	Bleed Valves	Toggle Valves	Relief Valves	Check Valves
Micron In-line Filters	Quick Connect Couplings	Stain	less Steel Pneumatics Fittings &	Valves



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