



PANAM
ENGINEERING
BEYOND
LIMITS

Check Valves

Working Pressure upto
6000 psi (414 bar)



+91 22 4146 9000

sales@panam.in

www.panam.in

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Introduction

PANAM[®] has emerged as renowned name in Global market for 'Instrumentation Fittings & Valves'. Since its inception in 1998 to present day, **PANAM**[®] has added new product every year and has broadened its product portfolio and its clientele base by supplying to potential customers worldwide. Key core values like Timely Delivery, Quality Consistency, Product Improvisation and after sales service has been instrumental in the phase wise evolution of company. Continuous improvement is the key to success, Customer feedback are taken with positive attitude and product are constantly groomed to a new quality and performance level to cope up with the competition. Our products are known for providing high-quality, high-reliability, low-cost options for the oil and gas industry. Over the year, the company has evolved from a product based company to a complete system solution provider. Over the coming years the entity of the company will attain state of the art operational efficiency for maintaining a competitive edge, with the advent increase in the utilization of its products in oil, gas and power sector.

PANAM[®] is having state of the art manufacturing facility span over an area of 1,65,000 sqft with a fleet of CNC machines, VMC machines, Semi-Automatic Lathe machines, High pressure test bench with SCADA control, Configuration centre for transmitters and dedicated R&D Team.

PANAM[®] offers a large variety of Check Valve from different materials like Stainless Steel and other Alloy (e.g. Monel, Hastalloy, Duplex, Super Duplex etc.) as per the customer's requirements.

PANAM[®] product meets and even exceeds the requirements of ASME and MSS Series Standards. All materials are supplied in compliance with ASTM Specifications and verified by NABL approved third party laboratories.

PANAM[®] Check Valves are 100% factory tested and are in compliance with NACE MR0175 / ISO 15156 with Heat Code Traceability and Maximum working pressure upto 6000 psi (414 bar).

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Check Valves

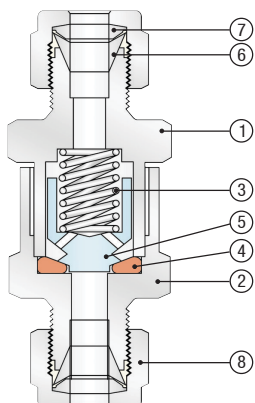
PANAM® Check Valves are specially designed & manufactured for flow control of fluids and gases in corrosive & hazardous environment. The valves are used in process control, instrumentation and flow control applications.

Valves are precision machined with designer durability and maximum efficiency to provide high quality and low cost alternatives in fluid and gaseous control systems of different applications, to meet the exact standards of our customer growing demands.

Features

- Available in High Grade Stainless Steel, Brass Materials
- Variety of end connections includes Male / Female threaded NPT, BSP, BSPT, ISO, DIN and JIS tapered pipe ends.
- 100% factory tested for both crack & reseal.
- Complete heat traceability.

Material of Construction



Sr. No.	Part Name	Qty.	Material
1	Body (Outlet)	1	A479-316 / Brass
2	Body (Inlet)	1	A479-316 / Brass
3	Spring	1	302 S.S. / A313
4	'O' Ring	1	Viton / Buna-N
5	Poppet	1	A479-316 / Brass
6	Back Ferrule	1	A479-316 / Brass
7	Front Ferrule	1	A479-316 / Brass
8	Nut	1	A479-316 / Brass

Optional TFE coated springs and elastomer seal are available upon request

Pressure & Temperature Ratings

Pressure Rating

316SS	1/8" to 1"	6000 Psig CWP (414 bar)
Brass	1/8" to 1"	3000 Psig CWP (207 bar)

Also Available in 10,000 psig upon request

Orifice 1.078" to 0.656"
(2.0 mm to 16.7 mm)

Cv Factor 0.18 to 6.56

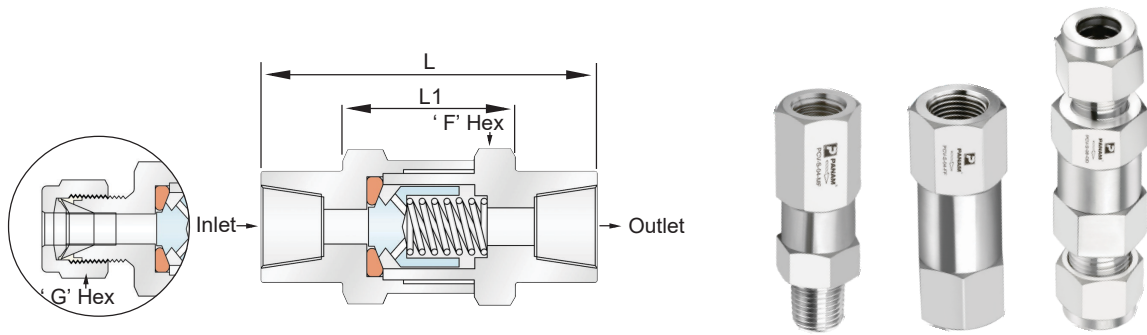
Working temperatures

Viton seal	-15° F to 375° F (-26°C to 190°C)
Fluorocarbon Rubber	-15° F to 400° F (-26°C to 204°C)
Buna - N Rubber	-30° F to 275° F (-34°C to 135°C)
Neoprene Rubber	-45° F to 250° F (-43°C to 121°C)

Working-Choice of fixed pressure cracking points from 1/3 to 25 psi (.02 to 1.75 bar) or as per customers requirements.

Note:- Valves may initially crack at higher than subsequent cracking pressure if are not actuated for a period of time.

Dimensions



Part No	Inlet	Outlet	L	L1	F Hex	G Hex
PCV-02-SS-OD	1/8" OD	1/8" OD	68.50	33.50	19.00	11.00
PCV-02-SS-FF	1/8" Female NPT	1/8" Female NPT	50.00	33.50	19.00	-
PCV-02-SS-MM	1/8" Male NPT	1/8" Male NPT	53.50	33.50	19.00	-
PCV-M06-SS-OD	6mm OD	6mm OD	72.00	33.50	19.00	14.00
PCV-04-SS-OD	1/4" OD	1/4" OD	72.00	33.50	19.00	14.00
PCV-04-SS-FF	1/4" Female NPT	1/4" Female NPT	60.00	33.50	19.00	-
PCV-04-SS-MM	1/4" Male NPT	1/4" Male NPT	62.50	33.50	19.00	-
PCV-04-04-SS-MOD	1/4" Male NPT	1/4" OD	66.00	33.50	19.00	14.00
PCV-04-M06-SS-MOD	1/4" Male NPT	6mm OD	66.00	33.50	19.00	14.00
PCV-M08-SS-OD	8mm OD	8mm OD	72.00	33.50	19.00	16.00
PCV-06-SS-OD	3/8" OD	3/8" OD	73.50	33.50	19.00	17.50
PCV-06-SS-FF	3/8" Female NPT	3/8" Female NPT	60.00	34.00	22.00	-
PCV-06-SS-MM	3/8" Male NPT	3/8" Male NPT	62.50	33.50	19.00	-
PCV-M10-SS-OD	10mm OD	10mm OD	74.50	33.50	19.00	19.00
PCV-08-SS-OD	1/2" OD	1/2" OD	79.00	34.00	22.00	22.00
PCV-08-SS-FF	1/2" Female NPT	1/2" Female NPT	84.00	-	32.00	-
PCV-08-SS-MM	1/2" Male NPT	1/2" Male NPT	73.00	34.00	22.00	-
PCV-08-08-SS-MOD	1/2" Male NPT	1/2" OD	76.00	34.00	22.00	22.00
PCV-08-M12-SS-MOD	1/2" Male NPT	12mm OD	76.00	34.00	22.00	22.00
PCV-M12-SS-OD	12mm OD	12mm OD	79.00	34.00	22.00	22.00
PCV-10-SS-OD	5/8" OD	5/8" OD	106.00	60.00	32.00	25.40
PCV-M16-SS-OD	16mm OD	16mm OD	106.00	60.00	32.00	25.40
PCV-12-SS-OD	3/4" OD	3/4" OD	106.00	60.00	32.00	25.40
PCV-12-SS-FF	3/4" Female NPT	3/4" Female NPT	84.00	-	35.00	-
PCV-12-SS-MM	3/4" Male NPT	3/4" Male NPT	99.00	60.00	32.00	-
PCV-12-12-SS-MOD	3/4" Male NPT	3/4" OD	102.50	60.00	32.00	28.50
PCV-16-SS-OD	1" OD	1" OD	118.00	65.00	35.00	38.00
PCV-16-SS-FF	1" Female NPT	1" Female NPT	98.50	-	40.50	-
PCV-16-SS-MM	1" Male NPT	1" Male NPT	115.00	65.00	35.00	-
PCV-16-16-SS-MOD	1" Male NPT	1" OD	118.00	65.00	35.00	38.00
PCV-M25-SS-OD	25mm OD	25mm OD	118.00	65.00	35.00	38.00

Dimensions are for reference only and subject to change

Ordering Information

PCV-04-SS-OD- - -NBR

PANAM® Check Valve

Connection Size

02	- 1/8"	M03	- OD 3 mm	M18	- OD 18 mm
04	- 1/4"	M06	- OD 6 mm	M25	- OD 25 mm
06	- 3/8"	M08	- OD 8 mm		
08	- 1/2"	M10	- OD 10 mm		
12	- 3/4"	M12	- OD 12 mm		
16	- 1"	M14	- OD 14 mm		
20M	- 1/8"	M16	- OD 16 mm		

Connection Types

R	- NPT (Standard)	G	- ISO parallel
	- ISO Tapered	M	- Metric

Body Material

SS	- Stainless Steel 316 SS	MO	- Monel	B	- Brass
CS	- Carbon Steel A 105	HC	- Hastelloy	6MO	- UNS S31254

End Connections

OD	- PANAM ® Tube Fitting
FF	- Female In and Out
MF	- Male / Female
MM	- Male In and Out

Cracking Pressure

-	- 1/3 PSI
1PSI	- CP to be mentioned in PSI/ bar as per requirement

Options

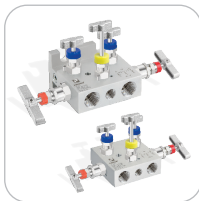
NBR	- BUNA	NPR	- Neoprene	10K	- 10000 psig
FFKM	- Kalrez	SG	- NACE MRO175		

 More configurations available upon request

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Notes

Other Products



2-3-5 VALVE MANIFOLDS



BELLOW SEAL VALVES



GAUGE ROOT VALVES



NEEDLE VALVES



HP NEEDLE VALVES



BALL VALVES



HP BALL VALVES



DOUBLE BLOCK & BLEED VALVES



MONO FLANGE VALVES



CHECK VALVES



RELIEF VALVES



FILTERS



TUBE FITTINGS



PIPE FITTINGS



HP PIPE FITTINGS



SWIVEL FITTINGS



JIC FITTINGS



WELD FITTINGS



HIGH PRESSURE FITTINGS



GAUGE SAVERS



PRESSURE GAUGES



TEMPERATURE GAUGES



PRESSURE TRANSMITTERS



TEMPERATURE TRANSMITTERS



PRESSURE REGULATORS



CONDENSATE POTS



AIR HEADERS



GRAB SAMPLING SYSTEM



PRE-FABRICATED HOOK UPS



FLANGE ADAPTERS



SWIVEL GAUGE ADAPTERS



THERMOWELLS



BLEED PLUGS



DIE-ELECTRIC FITTINGS



TUBING



PANAM ENGINEERS LTD.

501, Jaisingh Business Center, Parsiwada, Sahar Road, Andheri (East),
Mumbai - 400 099. BHARAT Tel.: +91 22 4146 9000 / 4146 9001 / 4146 9002 / 4146 9003 / 4146 9004.

Email: sales@panam.in / sales@panamengineers.com

Website: www.panam.in / www.panamengineers.com