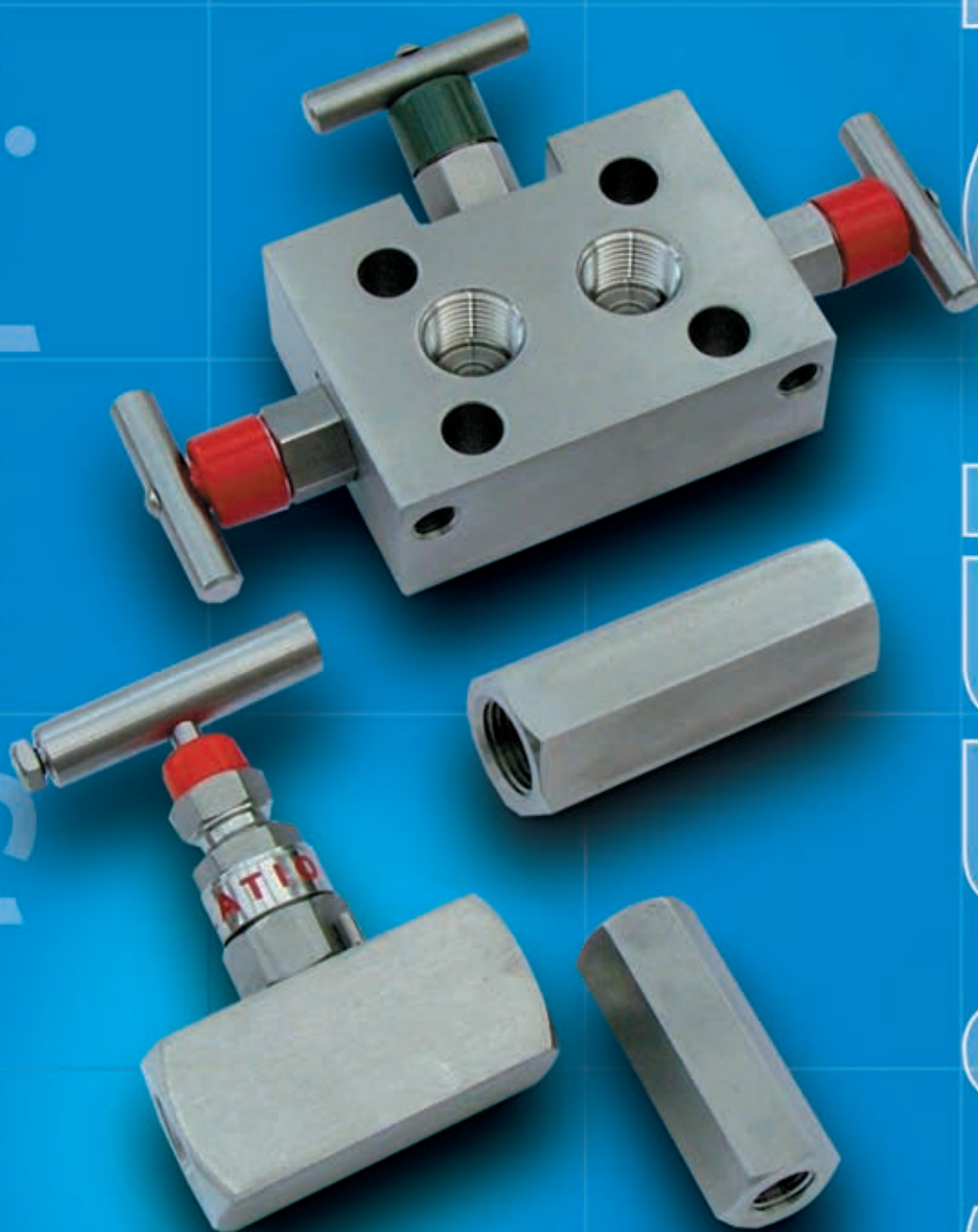


SAFELOK[®]

Instrumentation Needle Valves & Manifolds



316 Stainless Steel

Pressures up to 10,000 PSI

SAFELOK



One of the most comprehensive component design and manufacture packages available today to the Oil and Petrochemical Industry is offered by Safelok Components.

Harnessing the demands of the industry for Total Quality Management (TQM), the Safelok indigenous quality philosophy provides a range of Valves and Instrumentation Fittings finished to the highest standards.



Also ideal for other industrial applications, where significant opportunities exist for component replacement and enhancement. Construction material specification includes Stainless Steel, Aluminium Bronze & Carbon Steel. A variety of alternative exotic material specifications are available eg. Monel, Hasteloy, Incoloy and Titanium.

Maintaining their TQM practices throughout the manufacturing process, Safelok ensure all materials utilised in the completion of major components are traceable. Copies of the original mill certificates are retained for future reference.



All products are manufactured in compliance with
ISO 9001 - 2008
Safeloks capabilities also extend to Instrumentation Procurement Packages for major Oil Companies and the Construction Industry, both in the United Kingdom and throughout the world.

SAFELOK®

SAFELOK is a trade mark of Safelok Components Limited



BRITISH DESIGN AND MANUFACTURE



INTRODUCTION



SAFELOK LIMITED is housed in a modern factory in Wigan, Lancashire, England. An area renowned for its manufacturing skills. It is also ideally situated to all major motorway networks and Manchester International Airport.

One of the most comprehensive component design and manufacture packages available today to the Oil and Petrochemical Industry is offered by Safelok Components.

Harnessing the demands of the industry for Total Quality Management (TQM),

the Safelok indigenous quality philosophy provides a large range of Valves and Instrumentation Fittings to the highest standards to meet the ever increasing demand of the industry.

Safelok Products are available in the following materials:-

Stainless Steel - Inconel 625 - Monel - Incoloy 825 - Hasteloy - Aluminium Bronze - Carbon Steel. All products are manufactured in compliance with ISO 9001 - 2008.

Safelok is aware of its environmental commitments and all manufacturing procedures conform to ISO 14001 - 2004.



Quality Assurance Certificate
ISO 9001:2008



Environmental Certificate
ISO 14001:2004



Firesafe Certificate

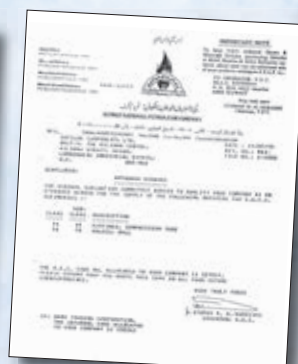


Design Certificate

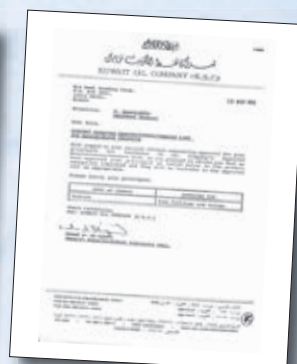
APPROVALS



ARAMCO



Kuwait NPC



Kuwait Oil Company



Abu Dhabi Company for
Onshore Oil Operations
(ADCO)

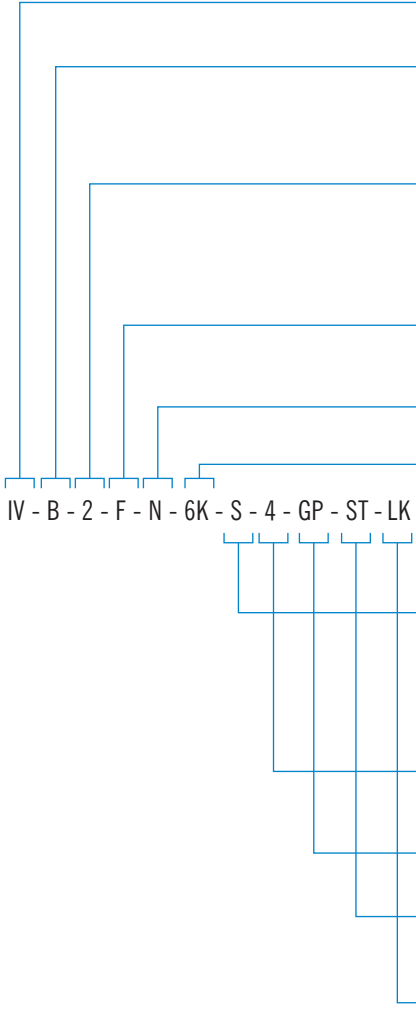
Safelok products have serviced the industry for over 25 years and we are proud of our achievements in acquiring many accreditations.

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How to Order

Safelok Needle Valves & Manifolds

EXAMPLE	ELEMENT	AVAILABLE VALUES
 <p>IV - B - 2 - F - N - 6K - S - 4 - GP - ST - LK</p>	Type	IV etc
	Body	B=Barstock, F=Forged
	Size	2=1/4", 3=3/8", 4=1/2", 6=3/4", 8=1" 6M=6mm, 8M=8mm, 10M=10mm, 12M=12mm, 14M=14mm, 16M=16mm, 18M=18mm, 20M=20mm, 22M=22mm, 24M=24mm
	Connections	F=Female, M=Male, MF=Male x Female, C2=Twin Ferrule, C1=Single Ferrule, BW=Butt Weld, SW=Socket Weld
	Thread Form	N=NPT, BT=BSP Taper, BP=BSP Parallel
	Pressure Rating	6K=6,000psi, 10K=10,000psi
	Material	S=316SS, SL=316LSS, SH=316HSS, CS=Carbon Steel, M=Alloy400, D=Duplex 3180S, SD=Super Duplex 32750/60, A625=Alloy625, A825=Alloy825, HC=AlloyC276, 6MO=312546MO, T=TitaniumGR2
	Orifice	4=4mm, 5=5mm, 6=6mm, SUFFIX RB=Reduced Bore (one size smaller)
	Packing	PT=PTFE, GP=Graphoil
	Trim	ST=StellitedGR6, SS=Stainless Steel, PH=17.4ph, D=Delrin
	Accessories	LK=Lockable, HW=Hand Wheel, AT=Anti-Tamper, PM=Panel Mount



Instrumentation Needle Valve

PREMIER DESIGN NEEDLE VALVES

Premier design needle valves are designed to meet with the zero emissions compliance now preferred by leading oil and gas companies throughout the world. The revolutionary design of the valve means that it has automatic dynamic gland adjustment and is guaranteed for life against leakage.

Construction Features

- Stem and needle knuckle joint above the gland to prevent either washout or contamination of the media and gives a low torque operation of the valves and smooth linear operation of the needle.
- Graphoil back-up firesafe stem seals that are not contaminated with the media.
- Dynamic pressure generated stem gland with preset loading for long life efficient operation.
- Metal to metal firesafe sealing of the bonnet to bonnet joint.

Firesafe to BS EN ISO 10497, API 607 and API 6FA.

PREMIER NEEDLE VALVES



Instrumentation Needle Valve PREMIER RANGE

Part No.
IVP-B-4-F-N-6K-S



Product Coding

TYPE	BODY	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	TEMPERATURE	MATERIAL	ACCESSORIES
IVP	B	2 - 1/4"	F	N	6K	HT	S	LK
	F	3 - 3/8"	M	BT	10K		SL	HW
	FY	4 - 1/2"	MF	BP			CS	AT
	BB	6 - 3/4"	C2				M	PM
		8 - 1"	C1				D	
		6M					SD	
		8M					A625	
		10M					A825	
		12M					HC	
		14M					6MO	
		15M					TI	
		16M						
		18M						
		20M						
		22M						
		25M						

Part No.
IVP-BB-4-C2-6K-S



Part No.
IVP-F-4-FN-6K-S



Part No.
IVP-FY-4-MF-N-6K-S



How to Order

Eg. Code: IVP-B-4-F-N-6K-S =

Instrumentation Needle Valve Premier Range.

Barstock

1/2" Female x Female NPT connections,

6,000 psi rated

316 Stainless Steel

Features

- Emission free
- Fire Safe BS EN ISO 10497, API607, API 6FA (Independently tested)
- Automatic dynamic pressure generated stem gland with preset loading for long life and efficient operation (No gland adjustment required)
- Precision manufactured with superior finished components for high performance incorporating pioneering design features and proven technology
- Lifetime guarantee against leakage
- 100% factory tested. Fully traceable material
- Pressure ratings 6,000 psi & 10,000 psi

Instrumentation Needle Valve

STANDARD DESIGN NEEDLE VALVES

Standard design needle valves are a high quality precision machined range of valves for regulating and shut off purposes and are suitable for general instrumentation.

Construction Features

- Pressure rating 6,000 psi and 10,000 psi.
- Gland packing PTFE (240°C) Graphoil (648°C)
- Non-rotating self centering, anti-galling stem tip assembly assures bubble tight shut off.
- Stem packing below the threads prevents media contamination and thread lubricant washout.
- Anti-blow out stem.
- Adjustable packing without the valve being disassembled.

Temperature and pressure ratings according to ASME 2500lb class.

STANDARD NEEDLE VALVES



Instrumentation Needle Valve STANDARD RANGE

Part No.
IV-B-4-F-N-6K-S-4-PT-SS



Product Coding

TYPE	BODY	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IV	B	2 - 1/4"	F	N	6K	S	4	PT	ST	LK
	F	3 - 3/8"	M	BT	10K	SL	5	GP	SS	HW
		4 - 1/2"	MF	BP		SH*	6		PH	AT
		6 - 3/4"	C2			CS	10			PM
		8 - 1"	C1			M	16			
		6M	BW			D	20			
		8M	SW			SD	25			
		10M				A625	Suffix - RB			
		12M				A825				
		14M				HC				
		15M				6MO				
		16M				TI				
		18M								
		20M								
		22M								
		25M								
		M20 x 1.5								
		M22 x 1.5								
		M24 x 1.5								

*SH valves are supplied with 416SS black chrome plated retainer

Part No.
IV-B-4-C2-6K-M-5-PT



Part No.
IV-B-2-F-N-6K-S-4-PT-PM



Part No.
IV-F-M20X1.5-M-6K-SH-6-GP-ST



How to Order

Eg. Code: IV-B-4-C2-6K-M-5-PT =
Instrumentation Needle Valve Standard Range.
Barstock, 1/2" OD Twin Ferrule connections,
6,000 PSI rated,
Alloy 400,
5mm Bore,
PTFE Packing,
Alloy 400 Trim

Features

- Pressure ratings 6,000 psi & 10,000 psi
- Gland packing PTFE (240°C) Graphoil (648°C)
- Non-rotating stem tip assembly assures bubble tight shut off
- 100% factory tested
- Fully traceable material



Instrumentation Needle Valve

UNDER-CRITICAL DESIGN NEEDLE VALVES

Under critical design needle valves are designed for high pressure and high temperature applications and incorporate a stainless steel/graphoil encapsulated body to bonnet seal.

Construction Features

- Body to bonnet design ensures highly reliable sealing under severe service conditions.
- Gland packing PTFE (240°C) graphoil (648°C)
- Non-rotating self centering, anti-galling stem tip assembly assures bubble tight shut off.
- Stem packing below the threads prevents media contamination and thread lubricant washout.
- Anti-blow out stem.
- Adjustable packing without the valve being disassembled.
- Back seating facility prevents the spindle from being backed out of the valve.

Temperature and pressure ratings according to ASME 2500lb class.

UNDER CRITICAL
NEEDLE VALVES



Instrumentation Needle Valve UNDER-CRITICAL RANGE

Part No.
IVUC-B-14M-SW-6K-SH-10-GP-ST



Part No.
IVUC-F-16M-SW-6K-SH-10-GP-ST



Product Coding

TYPE	BODY	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IVUC	B	2 - 1/4"	F	N	6K	S	4	PT	ST	LK
	F	3 - 3/8"	M	BT		SL	5	GP	SS	HW
		4 - 1/2"	MF	BP		SH*	6		PH	AT
		6 - 3/4"	C2			CS	10			PM
		8 - 1"	C1			M	16			
		6M	BW			D	20			
		8M	SW			SD	25			
		10M				A625	Suffix - RB			
		12M				A825				
		14M				HC				
		15M				6MO				
		16M				TI				
		18M								
		20M								
		22M								
		25M								
		M20 x 1.5								
		M22 x 1.5								
		M24 x 1.5								
		M24 x 1.5								

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IVUC-F-16M-BW-6K-SH-10-GP-ST =
Instrumentation Needle Valve Under Critical Range.
Forged,
16mm butt weld connections,
6,000 psi,
316H Stainless Steel c/w 416 Stainless Steel
retainer,
10mm bore,
Graphoil packing,
316H Stainless Steel stellated trim.

Features

- Body to bonnet design incorporating an external encapsulated stainless steel / Graphoil body to bonnet seal for reliable sealing under severe service conditions.
- Non rotating self-centreing, anti-galling stem tip assembly assures bubble tight shut off.
- Stem packing below the threads prevents media contamination and thread lubricant washout.
- Back seating function of the spindle against the bonnet.
- 100% factory tested. Fully traceable material.
- Gland Packing PTFE (240°C) Graphoil (648°C).
- Pressure ratings 6,000 psi ASME 2,500 lb



Instrumentation Needle Valve

OVER-CRITICAL DESIGN NEEDLE VALVES

Over critical design needle valves are designed for high pressure and high temperature applications and are suitable for use in over critical power stations. These valves incorporate a stainless steel / graphoil encapsulated body to bonnet seal placed deep inside the body.

Construction Features

- Special internal body to bonnet design and strengthened thread design ensures highly reliable sealing under severe service conditions.
- Gland packing PTFE (240°C) graphoil (648°C).
- Non-rotating self centering, anti-galling stem tip assembly assures bubble tight shut off.
- Stem packing below the threads prevents media contamination and thread lubricant washout.
- Anti-blow out stem
- Adjustable packing without the valve being disassembled.
- Back seating facility prevents the spindle from being backed out of the valve.

Temperature and pressure ratings according to ASME 4500lb class.

OVER CRITICAL
NEEDLE VALVES



Instrumentation Needle Valve OVER-CRITICAL RANGE

Part No.
IVOC-B-14M-BW-10K-SH-6-GP-ST



Part No.
IVOC-F-16M-BW-10K-SH-10-GP-ST



Product Coding

TYPE	BODY	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IVOC	B	2 - 1/4"	F	N	10K	S	4	PT	ST	LK
	F	3 - 3/8"	M	BT		SL	5	GP	SS	HW
		4 - 1/2"	MF	BP		SH*	6		PH	AT
		6 - 3/4"	C2			CS	10			PM
		8 - 1"	C1			M	16			
		6M	BW			D	20			
		8M	SW			SD	25			
		10M				A625	Suffix - RB			
		12M				A825				
		14M				HC				
		15M				6MO				
		16M				TI				
		18M								
		20M								
		22M								
		25M								
		M20 x 1.5								
		M22 x 1.5								
		M24 x 1.5								
		M24 x 1.5								

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IVOC-B-25M-SW-10K-SH-20RB-GP-PH =

Instrumentation Needle Valve Over Critical Range.
Barstock,
25mm socket weld,
10,000 psi rated,
316H Stainless Steel c/w 416 Stainless Steel
retainer,
16mm Bore,
Graphoil Packing,
17.4ph trim.

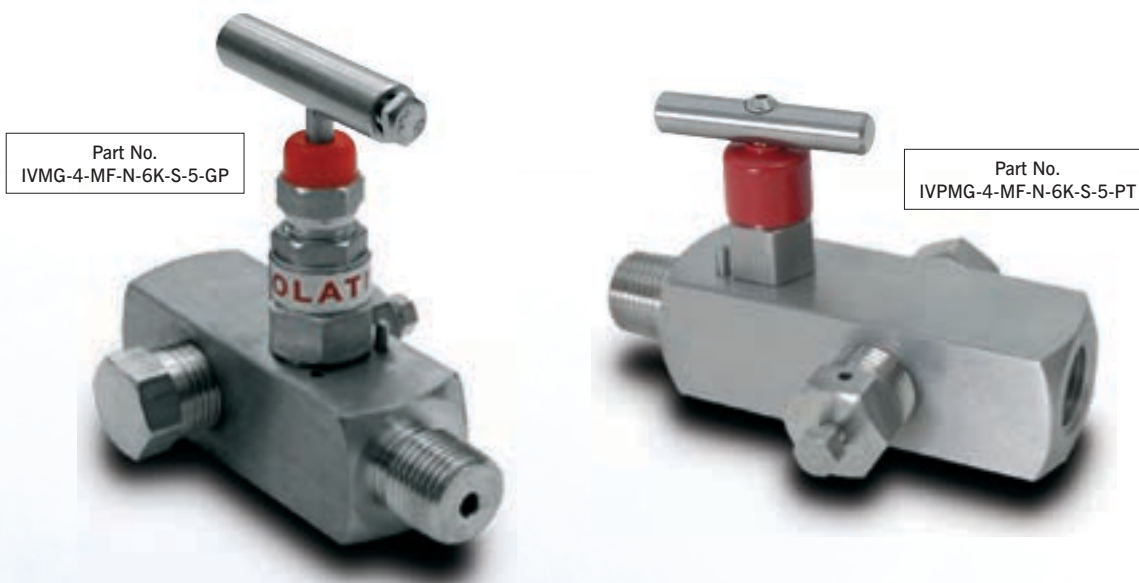
Features

- Body to bonnet design incorporating an internal encapsulated stainless steel / Graphoil body to bonnet seal for reliable sealing under severe service conditions.
- Non rotating self-centreing, anti-galling stem tip assembly assures bubble tight shut off.
- Stem packing below the threads prevents media contamination and thread lubricant washout.
- Back seating function of the spindle against the bonnet.
- 100% factory tested. Fully traceable material.
- Gland Packing PTFE (240°C) Graphoil (648°C).
- Pressure ratings 10,000 psi ASME 4,500 lb.



Instrumentation Needle Valve

MULTIPORT GAUGE VALVE



A multi-port gauge valve designed to provide a safe economical method for positioning gauges and pressure switches. The valve is also available with an extended body allowing 2" or 4" of pipe insulation.

Product Coding

TYPE	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IVMG	2 - 1/4"	F	N	6K	S	4	PT	ST	LK
IVPMG	4 - 1/2"	MF	BT	10K	SL	5	GP	SS	HW
	6 - 3/4"		BP		SH*	6		PH	AT
					CS	10			PM
					M				
					D				
					SD				
					A625				
					A825				
					HC				
					6MO				
					TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IVMG-4-MF-N-6K-S-5-GP-SS =

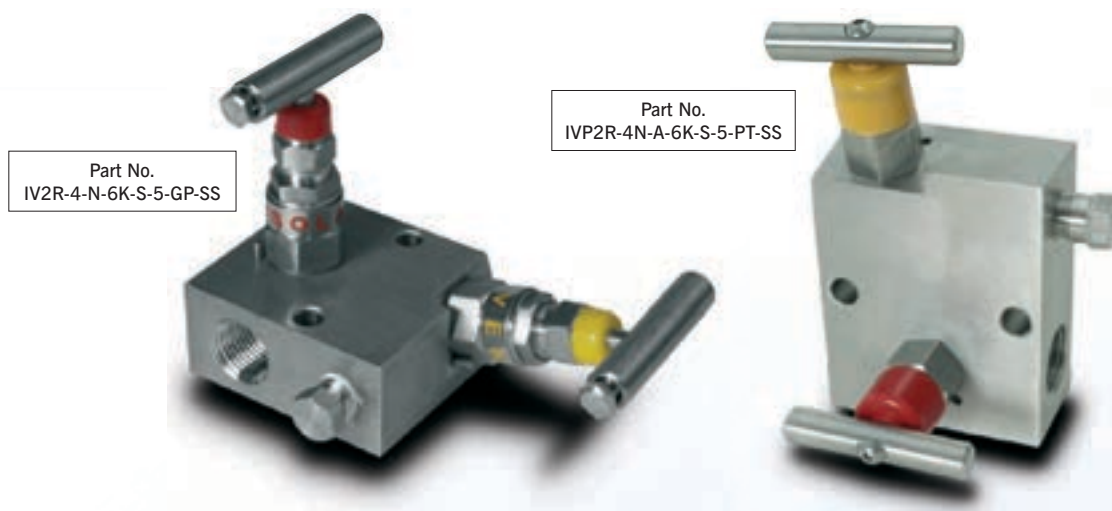
Instrumentation Valve,
Multi-port Gauge,
1/2" NPTM x 3 off 1/2" NPTF,
6,000 psi rated,
316 Stainless Steel, 5mm Orifice
Graphoil Packing
Stainless Steel Trim

Features

- Pressure rating 6,000 psi standard, 10,000 on request.
- All design and safety features as IV or IVP series Needle Valves.
- Outlet connections 1/2" NPT female.
- Inlet connections 1/2" NPT male or 3/4" NPT male.
- 1/2" NPT male blank and vent plugs available on request.
- Other threads available on request.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

TWO VALVE REMOTE MOUNTED MANIFOLD



A two valve remote mounted manifold for isolation and calibration.

Product Coding

TYPE	SIZE	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IV2R	2 - 1/4"	N	6K	S	4	PT	ST	LK
IVP2R	4 - 1/2"	BT	10K	SL	5	GP	SS	HW
		BP		SH*	6		PH	AT
				CS				
				M				
				D				
				SD				
				A625				
				A825				
				HC				
				6MO				
				TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IV2R-4-N-A-6K-S-5-GP-SS =

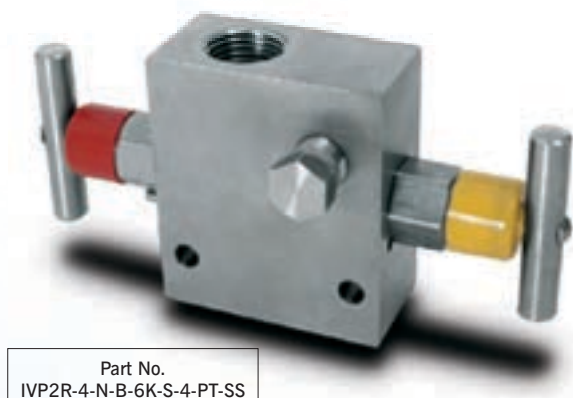
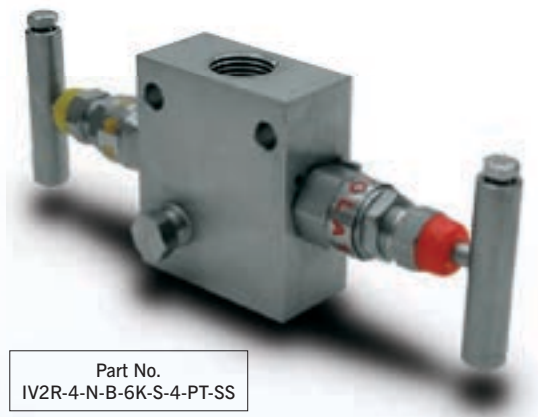
Instrumentation Valve,
Two Valve Remote Mount,
Manifold,
1/2" NPT F + F,
1/4" NPT Vent,
Angled,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

- Pressure rating 6,000 psi standard, 10,000 on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process/instrument connections 1/2" NPT female.
- Vent/drain connections 1/4" NPT female.
- Other threads available on request.
- Angled head for ease of operation.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

TWO VALVE INLINE REMOTE MOUNTED MANIFOLD



A two valve inline remote mounted manifold for isolation and calibration.

Product Coding

TYPE	SIZE	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IV2R	2 - 1/4"	N	6K	S	4	PT	ST	LK
IVP2R	4 - 1/2"	BT	10K	SL	5	GP	SS	HW
		BP		SH*	6		PH	AT
				CS				PM
				M				
				D				
				SD				
				A625				
				A825				
				HC				
				6MO				
				TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IV-2R-4-N-6K-S-5-GP-SS =

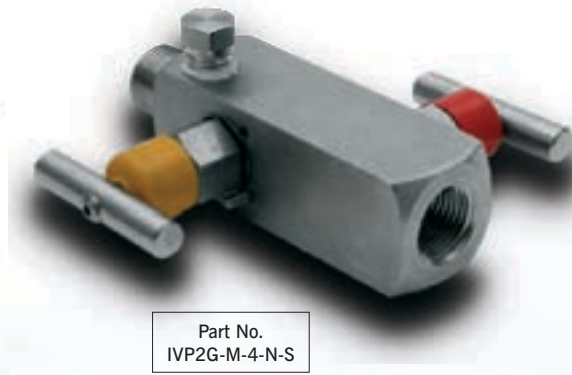
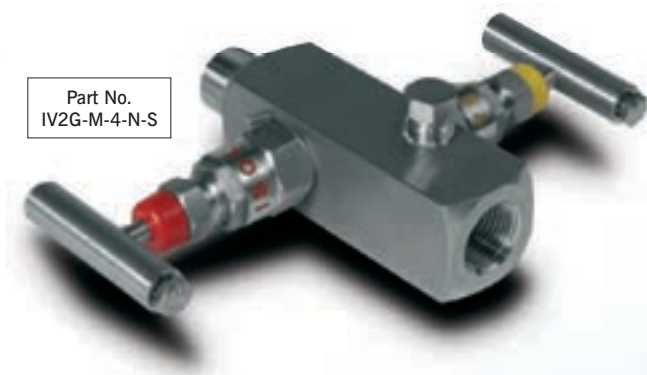
Instrumentation Valve,
Two Valve Remote Mount,
Manifold,
1/2" NPT F+F,
1/4" NPTF Vent,
Inline,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

- Pressure rating 6,000 psi standard, 10,000 on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process/instrument connections 1/2" NPT female.
- Vent/drain connections 1/4" NPT female.
- Other threads available on request.
- Opposite head design for easy inline operation.
- Mounting holes as standard.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

TWO VALVE REMOTE MOUNTED GAUGE MANIFOLD



A two valve inline remote mounted Block & Bleed gauge manifold for isolation and calibration, ideally suited for the mounting of pressure gauges.

Product Coding

TYPE	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IV2G	2 - 1/4"	F	N	6K	S	4	PT	ST	LK
IVP2G	4 - 1/2"	M	BT	10K	SL	5	GP	SS	HW
	14M	MF	BP		SH*	6		PH	AT
	16M	BW			CS	10			PM
	20M	SW			M				
	25M				D				
	M20 x 1.5				SD				
	M22 x 1.5				A625				
	M24 x 1.5				A825				
					HC				
					6MO				
					TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IV2G-4-MF-N-6K-S-5-GP-SS =

Instrumentation Valve,
Two valve gauge manifold,
1/2" NPTM x 1/2" NPTF,
Inline 1/4" NPT Vent
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

- Pressure rating 6,000 psi standard, 10,000 on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process/instrument connections 1/2" NPT male x female as standard.
- Vent/drain connection 1/4" NPT female as standard.
- Other thread forms & sizes available on request.
- Opposite head design for easy inline operation.
- Standard materials 316 Stainless Steel.
- Alternative materials available on request.
- Gland packing PTFE (225°) as standard, high temperature Graphoil (648°) option available.
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

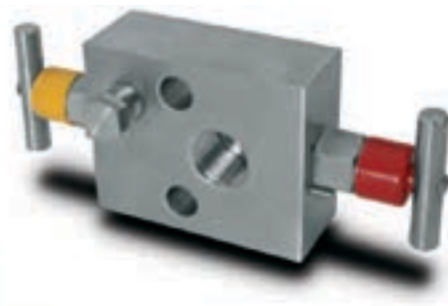
TWO VALVE DIRECT MOUNTED MANIFOLD



Part No.
IVM2D-4-N-A-6K-S-5-GP-SS



Part No.
IVM2D-4-N-6K-S-5-PT-SS



Part No.
IVPM2D-4-N-6K-S-5-PT-SS

A two valve direct mounted manifold for isolation and calibration,
suitable for direct mounting to pressure transmitters.

Product Coding

TYPE	SIZE	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IVM2D	2 - 1/4"	N	6K	S	4	PT	ST	LK
IVPM2D	4 - 1/2"	BT	10K	SL	5	GP	SS	HW
		BP		SH*	6		PH	AT
				CS				PM
				M				
				D				
				SD				
				A625				
				A825				
				HC				
				6MO				
				TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IVM2D-4-N-6K-S-5-GP-SS =

Instrumentation Valve,
Two valve manifold,
Direct Mounted,
1/2" NPT F x Flanged,
1/4" NPT Vent,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

- Pressure rating 6,000 psi standard, 10,000 psi on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process connections 1/2" NPT female.
- Vent/drain connections 1/4" NPT female.
- Other threads available on request.
- Instrument connections flanged.
- Mounting holes as standard.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

THREE VALVE REMOTE MOUNTED MANIFOLD



Part No.
IV3R-4-N-6K-S-5-GP-SS



Part No.
IV3R-4-N-A-6K-S-5-PT-SS



Part No.
IVP3R-4-N-6K-S-5-PT-SS

A three valve remote mounted manifold for isolation and calibration,
suitable for direct mounting to pressure transmitters.

Product Coding

TYPE	SIZE	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IV3R	2 - 1/4"	N	6K	S	4	PT	ST	LK
IVP3R	4 - 1/2"	BT	10K	SL	5	GP	SS	HW
		BP		SH*	6		PH	AT
				CS				PM
				M				
				D				
				SD				
				A625				
				A825				
				HC				
				6MO				
				TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IV3R-4-N-6K-S-5-GP-SS =

Instrumentation Valve,
Three valve manifold,
Remote Mounted,
1/2" NPT F x F,
1/4" NPT Vent,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

- Pressure rating 6,000 psi standard, 10,000 psi on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process/instrument connections 1/2" NPT female.
- Vent/drain connections 1/2" NPT female.
- Other threads available on request.
- Mounting holes as standard.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

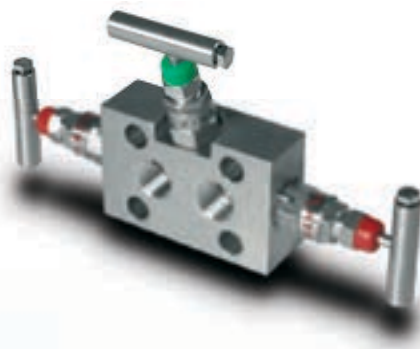


Instrumentation Needle Valve

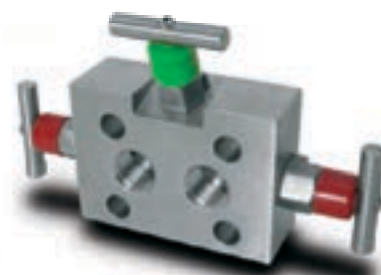
THREE VALVE DIRECT MOUNTED MANIFOLD



Part No.
IVM3D-4-N-A-6K-S-5-GP-SS



Part No.
IVM3D-4-N-6K-S-5-GP-SS



Part No.
IVPM3D-4-N-6K-S-5-PT-SS

A three valve remote mounted manifold having two isolation valves and angled equaliser valve, suitable for direct mounting to pressure transmitters.

Product Coding

TYPE	SIZE	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IVM3D	2 - 1/4"	N	6K	S	4	PT	ST	LK
IVPM3D	4 - 1/2"	BT	10K	SL	5	GP	SS	HW
		BP		SH*	6		PH	AT
				CS				PM
				M				
				D				
				SD				
				A625				
				A825				
				HC				
				6MO				
				TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IVM3D-4-N-6K-S-5-GP-SS =

Instrumentation Valve,
Three valve manifold,
Remote Mounted,
1/2" NPTF x Flanged,
1/4" NPT Vent,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

- Pressure rating 6,000 psi standard, 10,000 psi on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process connections 1/2" NPT female.
- Vent/drain connections 1/4" NPT female.
- Other threads available on request.
- Instrument connections flanged (54mm centres).
- Mounting holes as standard.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

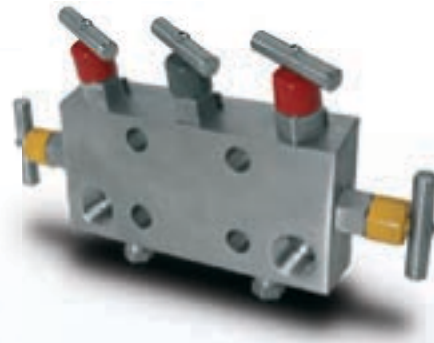
FIVE VALVE REMOTE MOUNTED MANIFOLD



Part No.
IV5R-4-N-A-6K-S-5-GP-SS



Part No.
IV5R-4-N-6K-S-5-PT-SS



Part No.
IVP5R-4-N-6K-S-5-PT-SS

A five valve remote mounted manifold having two isolation valves, two vent valves and one equalise valve.

Product Coding

TYPE	SIZE	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IV5R	2 - 1/4"	N	6K	S	4	PT	ST	LK
IVP5R	4 - 1/2"	BT	10K	SL	5	GP	SS	HW
		BP		SH*	6		PH	AT
				CS				PM
				M				
				D				
				SD				
				A625				
				A825				
				HC				
				6MO				
				TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IV5R-4-N-A-6K-S-5-GP-SS =

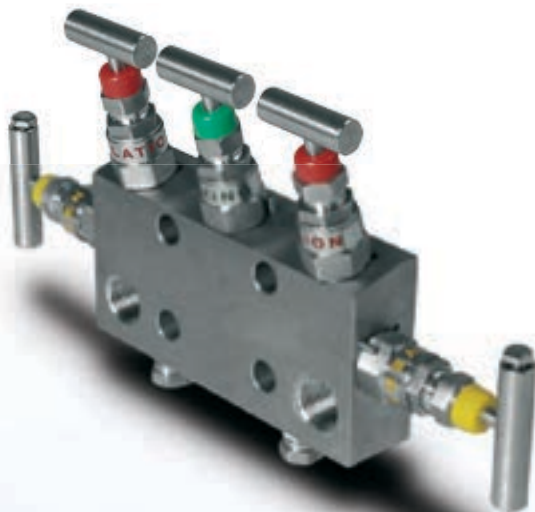
Instrumentation Valve,
Five valve manifold,
Remote Mounted,
1/2" NPTF x F,
1/4" NPT Vent,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

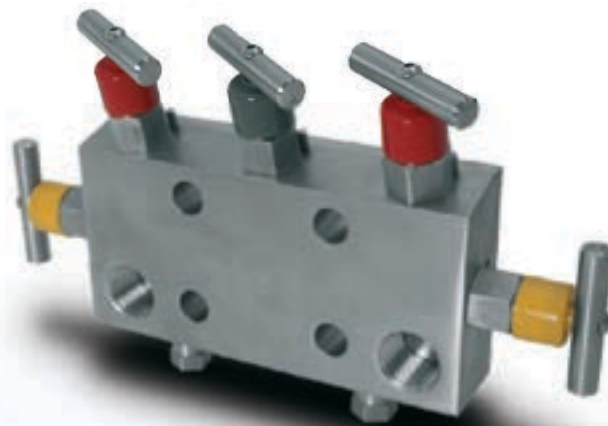
- Pressure rating 6,000 psi standard, 10,000 psi on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process connections 1/2" NPT female.
- Vent/drain connections 1/4" NPT female.
- Other threads available on request.
- Instrument connections 1/2" NPT female.
- Mounting holes as standard.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

FIVE VALVE DIRECT MOUNTED MANIFOLD



Part No.
IVM5D-4-N-6K-S-5-GP-SS



Part No.
IVP5D-4-N-6K-S-5-PT-SS

A five valve direct mounted manifold having two isolation valves, two vent valves and one equalise valve, suitable for direct mounting to pressure transmitters.

Product Coding

TYPE	SIZE	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
IVM5D	2 - 1/4"	N	6K	S	4	PT	ST	LK
IVPM5D	4 - 1/2"	BT	10K	SL	5	GP	SS	HW
		BP		SH*	6		PH	AT
				CS				PM
				M				
				D				
				SD				
				A625				
				A825				
				HC				
				6MO				
				TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: IVM5D-4-N-6K-S-5-GP-SS =

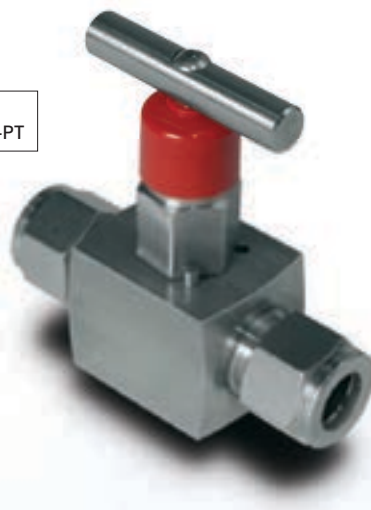
Instrumentation Valve,
Five valve manifold,
Direct Mounted,
1/2" NPTF x Flanged,
1/4" NPT Vent,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
Graphoil Packing,
Stainless Steel Trim.

Features

- Pressure rating 6,000 psi standard, 10,000 psi on request.
- All design and safety features as IV or IVP series Needle Valves.
- Process connections 1/2" NPT female.
- Vent/drain connections 1/4" NPT female.
- Other threads available on request.
- Instrument connections flanged (54mm centres).
- Mounting holes as standard.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°) Graphoil (550°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve RISING PLUG VALVE

Part No.
PVP-4-C2-6K-S-5-PT



A robust yet compact rising plug valve, designed to be maintained, having a replacable seat, providing an economical method of flow control, suited to the most severe service conditions.

Product Coding

TYPE	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	MATERIAL	ORIFICE	PACKING	TRIM	ACCESSORIES
PV	2 - 1/4"	F	N	6K	S	5	PT	D	LK
PVP	4 - 1/2"	M	BT		SL				HW
		MF	BP		SH*				AT
		C2			CS				PM
		C1			M				
					D				
					SD				
					A625				
					A825				
					HC				
					6MO				
					TI				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: PV-2-F-N-6K-S-5-PT-D =

Rising Plug Valve,
1/4" NPTF x 1/4" NPTF,
6,000 psi rated,
316 Stainless Steel,
5mm Orifice,
PTFE Packing,
Delrin Trim.

Features

- Pressure rating 6,000 psi standard.
- Available with 1/4", 1/2" NPT or twin ferrule compression ends.
- Other threads available on request.
- Straight through flow.
- Panel mounting option.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Gland packing PTFE (225°).
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve

POPPET CHECK VALVE



Part No.
CV-2, 4 & 6 -N

A very compact and robust non-return valve, designed for high flow and low pressure drop in service, suitable for many arduous duties with most aggressive mediums.

Product Coding

TYPE	SIZE	CONNECTIONS	THREAD FORM	PRESSURE RATING	MATERIAL
CV	2 - 1/4"	F	N	6K	S
	3 - 3/8"	M	BT	10K	SL
	4 - 1/2"	MF	BP		SH*
	6 - 3/4"	C2			CS
	8 - 1"	C1			M
	6M				D
	8M				SD
	10M				A625
	12M				A825
	14M				HC
	15M				6MO
	16M				TI
	20M				
	25M				
	M20 x 1.5				
	M22 x 1.5				
	M24 x 1.5				

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

Eg. Code: CV-4-F-N-6K-S =

Poppet Check Valve,
1/2" NPTF x 1/2" NPTF,
6,000 psi rated,
316 Stainless Steel.

Features

- Pressure rating 6,000 psi standard, 10,000 psi on request.
- Many threads available on request.
- Large orifice sizes for maximum flow and low pressure drop.
- Heavy duty corrosion resistant spring for long life.
- Close tolerance guided spring and piston to prevent crabbing or seizure.
- Several spring and piston material options available.
- Soft seal for bubble tight close.
- Fail safe metal to metal ceiling after soft seat.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Fully traceable material.
- 100% factory tested.

Instrumentation Needle Valve SWIVEL GAUGE ADAPTOR



Safelok swivel gauge adaptors are designed to give 360° orientation of pressure gauges on site. They allow pressure gauges to be connected directly to the system with the dial in the correct orientation.

Product Coding

TYPE	SIZE 1	THREAD FORM 1	CONNECTION 1	SIZE 2	THREAD FORM 2	CONNECTION 2	PRESSURE RATING	MATERIAL
SWG	2 - 1/4"	N	F	2 - 1/4"	N	F	6K	S
	4 - 1/2"	BT	M	4 - 1/2"	BT	M	10K	SL
	6 - 3/4"	BP		6 - 3/4"	BP			SH*
	M20 x 1.5			M20 x 1.5				CS
	M22 x 1.5			M22 x 1.5				M
	M24 x 1.5			M24 x 1.5				D
								SD
								A625
								A825
								HC
								6MO
								TI

*SH valves are supplied with 416SS black chrome plated retainer

How to Order

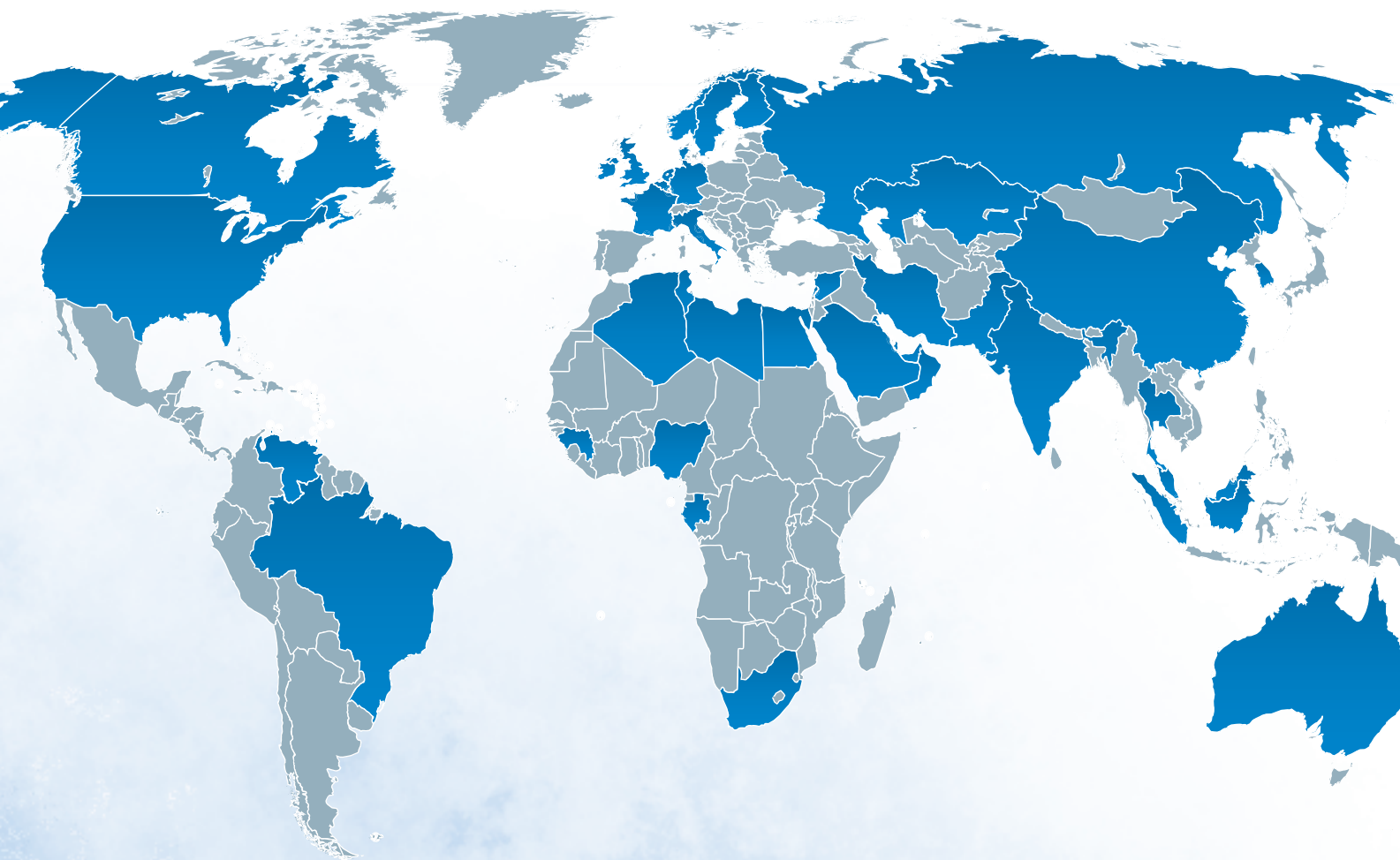
Eg. Code: SWG-4-N-M-4-N-F-6K-S =

Swivel Gauge Adaptor,
1/2" NPT Male x Female,
6,000 psi rated,
316 Stainless Steel.

Features

- Pressure rating 6,000 psi standard, 10,000 psi on request.
- Many threads available on request.
- Standard materials 316 Stainless Steel, Carbon Steel or Monel.
- Alternative materials available on request.
- Fully traceable material.
- 100% factory tested.

100%



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