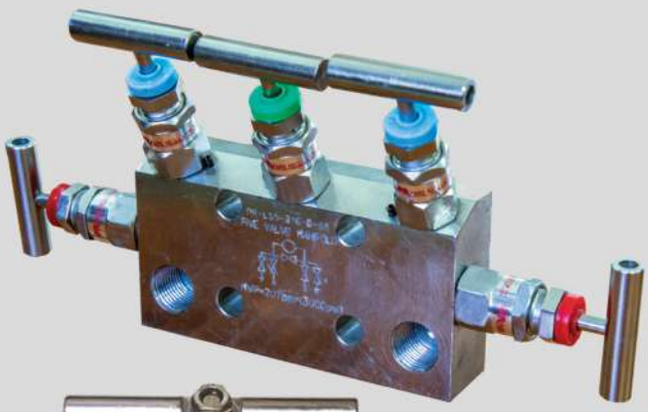
PARS REGULATOR Co.®
VALVE & STEAM TRAP DEPARTMENT

To find

The best quality of the Iranian products, you need to choose Pars Regulator Co.

INSTRUMENT
& PIPING
VALVES



SINCE
1988

VALVES & STEAM TRAP

Here is the Catalogue of required products in oil, gas & petrochemical industries in your hands.

+98-21-8830-77-66

BETER TOGETHER

We are honored to give services for safety of people and improving industrial equipment.

STANDARD:

ASME/ANSI B16.34
ASME/ANSI B16.5
ASME B16.10
ASME B16.25
ASME B16.11
API 598
API 602
BS 1414
BS 1873
BS 6755
ISO 17292

CHOOSE PARS REGULATOR

Company Brief Introduction

Welcome to Pars Regulator Corp. (Private Joint Stock, P.J.S)! Our Company was founded in 1988 is a family owned Company that has expanded in almost three decades of manufacturing from an initial 4000 square meter's area to a modern manufacturing facilities that encompasses 2500 square meters at the present. For more than 30 years, Pars Regulator Co. has been concentrating on servicing to oil, Gas, Petrochemical industry, Refinery and Power Industries.

Pars Regulator is one of the Iranian leading manufacturers and suppliers:

1. High pressure pipe and tube fittings (compression type) 2. Instrumentation high pressure valves such as: (Needle, Manifolds (2,3,5 ways), Ball) 3. Piping Valves such as: (Ball, Gate, Globe, Check) 4. Single/Double block & bleed valves 5. Flanges 6. Industrial filters 7. High pressure Vessel 8. Condensate pots 9.Steam traps 10. Low and high pressure gas and air regulator 11. Special Product

Planning, Policy and Guidance

Pars Regulator believes its most important asset is human resources. It is our excellence in skills and innovation that has driven our growth to date and ensures we are in the best position to capitalize on this for future growth. We concentrated on industrial products and trust us that you will enjoy as a partner of us to win-win on industrial products with the support of "trustable quality, short time delivery and competitive prices!

Commercial & Raw Material Suplying

Our foreign commercial department is active in import and export of many kinds of regulators, valves, filters, tubes, pipes, industrial equipment and machines and various other products.

Control and Assurance of Quality

We are proud of our quality assurance systems which satisfies ISO 9001-2008. Compliance utilizing state of the art technology to perform the most severe tests in this industry on your Production. We understand regional market requirements that satisfy customer's needs. Pars Regulator products, meets your standard requirements in accordance with international standards and customer's specifications with:

1) fugitive emission
2) performance and functionality
3) high pressure fluids
4) high-low temperature
5) fire safe
6) NDE inspection
7) sour condition, etc.

We provide proper after sales services and supports. Our procedures and testing can be conducted on-site if requested. (Field Test).

CAPABILITIES, PROCESS, FACILITIES:

1. Furnace (Frequency induction, fuel)
2. Hydraulic Pressure (Hydraulic press 600 Ton & Impact Press 200 Ton)
3. CNC machining services & Molding process engineering
4. Welding shop
5. Pickling, Cleaning, Descaling and passivation Equipment & system
6. Pleated filter process
7. Hydrostatic, gas, vibration, Impales and shock bench test
8. Laboratory filter systems

Now more than ever, the basic fundamental which guides our business is the belief that "Meeting standards is our Standard". Our employees are working to meet today's increasing demands of process improvements, new material and technologies.

Pars Regulator Co. is a member of "Approved Vendor Lists" (AVL) of major national and private Iranian oil and gas, petrochemical, refinery and power companies such as:

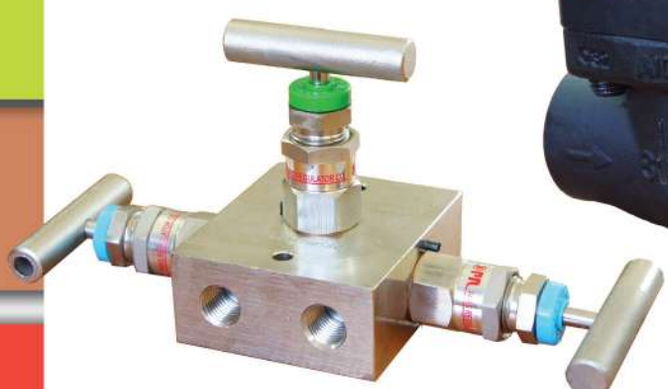
1. NPC (national petrochemical Co.)
2. NIGC (National Iranian gas Co. including SPGC, located in the biggest gas field in the world)
3. NIOC (National Iranian oil Co.)
4. Mapna groups PJS Co., POGC (Pars oil & gas Co.)
5. NIOPDC (National Iranian oil products distribution Co.) and so on.

Since then, we have sold remarkable quantity of products in more than 400-500 projects & orders to all main End users & EPC'S Companies.

Pars Regulator Co.

INSTRUMENT VALVES

PIPING VALVES



INDEX GUIDE

PR Valve Cataluge In 4 Categuries. Instrumentation Valves are from page 3 to 20, Piping Valves are from 22-43, Steam Traps are from 45-50 and Strainers are from 52-54. PR Products code is in page 1.

Pars Regulator Co.

How to Order?

1 TYPE	2 BODY	3 CONNECTION	4 PRESSURE RATING	5 SIZE	6 MATERIAL	7 SEAT MATERIAL	8 BORE	9 TREATMENT
B A	W	N N	3 M	0 0 2	0 1	5 0	F	P I

EXAMPLE:BA1NN3M0020150FPH; BALL VALVE ONE PIECES NPT X NPT CLASS 3000 PSI 1/8" A105N FULL BORE PHOSPHATED

Type	1
BA	Ball Valve
GA	Gate Valve
GO	Globe Valve
SC	Swing Check V.
PC	Piston Check V.
YC	Y Type Check V.
LC	Lift Check V.
NE	Needle V.

Body	2
W	Welded Bonnet
B	Bolted Bonnet
G	Globe Pattern
A	Angle Pattern
1	One Pieces
2	Two Pieces
3	Three Pieces

Connection	3
NN	NPT(F) X NPT(F)
MM	NPT(M) X NPT(M)
UU	Butt Weld X Butt Weld
CC	Socket Weld X Socket Weld
LL	Plain End X Plain End
OO	Tube Nut X Tube Nut
FF	Flanged X Flanged
NM	NPT(F) X NPT(M)
NC	NPT(F) X Socket Weld

Pre. Rating	4
3M	3000psi
6M	6000psi
10M	10000psi
1W	1000 WOG
2W	2000 WOG
1C	#150
2C	#300
3C	#600
4C	#800
5C	#1500
...	...

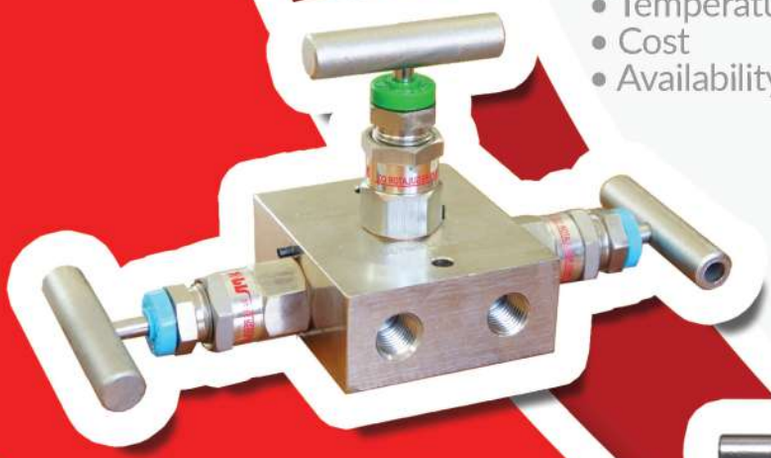
Size (Inch)		5
3m		3mm
6m		6mm
9m		9mm
002	1/8"	10.3mm
004	1/4"	13.7mm
006	3/8"	17.10mm
008	1/2"	21.30mm
012	3/4"	26.70mm
016	1"	33.40mm
020	1 1/4"	42.20mm
024	1 1/2"	48.30mm
032	2"	60.3mm
048	3"	88.9mm
064	4"	114.30mm
096	6"	168.30mm
128	8"	219.10mm
160	10"	273.10mm
192	12"	323.90mm

Material	6
01	A105N
02	A350 LF2
03	A182-F11
04	A182-F5
05	A182-F304
06	A182-F304L
07	A182-F316
08	A182-F316L
09	A182-F321
10	A182-F51
11	A182-F53
12	A182-F6a
13	A564 UNS S17400
14	B564 No 4400
15	B649

Seat Material	7
50	P.TF.E
51	R.P.T.F.E/Glass
52	R.P.T.F.E/Carbon Graphite
53	POM
54	PEEK
55	NYLON 12
56	NYLON 1010
57	NYLON 6
58	FKM
59	NBR
60	Silicon
61	Graphite
62	EPDM
63	Kel-f

Bore	8
F	Full Bore
R	Reduced Bore

Treatment	9
NT	No Treatment
NR	Normalized
QT	Quenched & Tempered
AN	Anealed
SA	Solution Anealed
NP	Electroless Ni. Plated
CP	Cr. Plated
PH	Phosphated
GZ	Galvanized
PI	Pickled
...	...



INSTRUMENT VALVES

ALL TYPES

PR PRODUCT

1. The main parameters to be considered when selecting any equipment are:
   - Operating conditions, including temperature, pressure and media contained
   - Environment
   - Legislation and Internal Regulations
   - Cost
   - Availability
   - Lead time
   - Expected life time of the equipment
   - Safety

2. In terms of materials, the selection criteria normally translate into some of the following parameters:
   - Mechanical properties
   - Corrosion resistance to media and environment
   - Temperature operating range
   - Cost
   - Availability on request

Pars Regulator Co.

NEEDLE VALVES
OD (TUBE END CONNECTIONS)

With more than twenty years of valve design experience, our company can offer the most complete range of Needle valve. This group of valves can handle a wide range of general purpose liquid and gas applications. PR valves find their application in different market, chemical, petrochemical and pharmaceutical industries. All needle valves are made from bar-stock and Forging and available with pressure rating of 3000, 6000, 10000 PSI. This catalogue shows you the standard design of valves but the organization flexibility and productive structure allow PR to meet all different needs of customers. Product innovation and development may require modifications and changes in the information contained in this catalogue. PR reserves the right to make such modifications at their discretion and without prior notification.

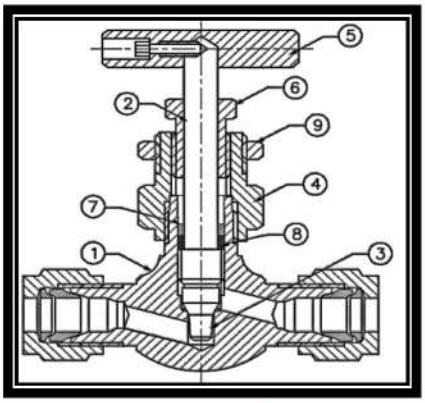
Pars Regulator Bar Stock Needle Valves are manufactured from Bar Stock and 100% factory tested for better reliability and consistency in leak proof performance. Since the orifice is small and the force advantages of the fine-threaded stem is high, needle valves are usually easy to shut off completely, with merely "finger tight" pressure. Small, simple needle valves are often used as bleed valves in hot water heating application.

Typical Applications

✓ Instrument air lines ✓ Sampling ✓ Gas chromatography ✓ Test stands ✓ Cylinder valves

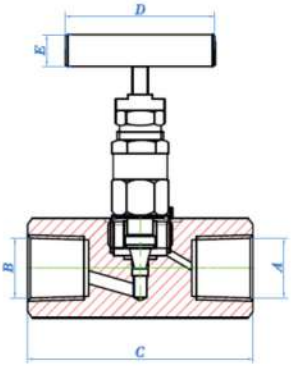
Safety

• Integral bonnet provides differential thread pitch between stem threads and packing nut thread preventing accidental stem removal.



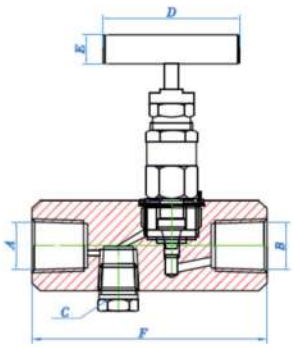
ROW	DESCRIPTION	MATERIAL
1	BODY	316L STAINLESS STEEL
2	STEM	316L STAINLESS STEEL
3	STEM TIP	17-4PH STAINLESS STEEL
4	BONNET	316L STAINLESS STEEL
5	HANDLE	STAINLESS STEEL
6	PANEL MOUNTING NUT	316L STAINLESS STEEL
7	RING	316L STAINLESS STEEL
8	STEM PACKING	PTFE + GRAPHIT
9	BONNET NUT	316L STAINLESS STEEL

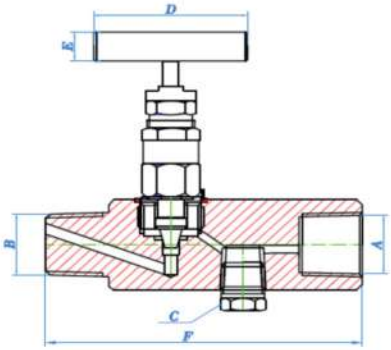
Needle Valve
(Bar Stock)



Part Number	Max. Working Pressure	End Connection		Dimensions				
Pars Regulator		Inlet	Outlet	A	B	C	D	E
NVS 4FF	3000Psi 6000 Psi 10000 Psi	1/4"NPT-Female	1/4"NPT-Female	1/4" NPT (M)	1/4" NPT (M)	55(mm)	58(mm)	Ø13
NVS 6FF		3/8"NPT-Female	3/8"NPT-Female	3/8" NPT (M)	3/8" NPT (M)	59 (mm)	58(mm)	Ø13
NVS 8FF		1/2"NPT-Female	1/2"NPT-Female	1/2" NPT (M)	1/2" NPT (M)	65(mm)	58(mm)	Ø13
NVS 4M4F		1/4" NPT male inlet	1/4" NPT female outlet	1/4" NPT(F)	1/4"NPT (M)	55(mm)	58(mm)	Ø13
NVS 6M6F		3/8" NPT male inlet	3/8" NPT female outlet	3/8" NPT(F)	3/8" NPT (M)	59 (mm)	58(mm)	Ø13
NVS 8M8F		1/2" NPT male inlet	1/2" NPT female outlet	1/2"NPT(F)	1/2" NPT (M)	65(mm)	58(mm)	Ø13
NVS 12FF		3/4" NPT female inlet	3/4" NPT female outlet	3/4" NPT (F)	3/4" NPT (F)	65(mm)	58(mm)	Ø13
NVS 16FF		1"NPT female inlet	1" NPT female outlet	1" NPT (F)	1" NPT (F)	86(mm)	58(mm)	Ø13
NVS 12M8F		3/4" NPT male inlet	1/2" NPT female outlet	1/2" NPT (F)	3/4" NPT (M)	70(mm)	58(mm)	Ø13
NVS 12M12F		3/4" NPT male inlet	3/4" NPT female outlet	3/4" NPT (F)	3/4" NPT (M)	70(mm)	58(mm)	Ø13

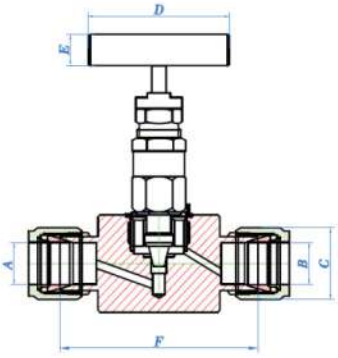
Needle Valve
(With Down Stream Vent)





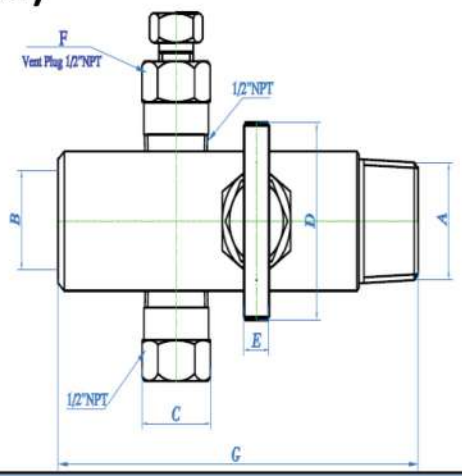
Part Number	Max. Working Pressure	End Connection		Drain/test	Dimensions					
Pars Regulator		Inlet	Outlet		A	B	C	D	E	F
NVS 4FFV	3000Psi 6000 Psi 10000 Psi	1/4" NPT female inlet	1/4" NPT female outlet	1/4" NPT female	1/4" NPT (F)	1/4" NPT (M)	Vent 1/4" NPT	58(mm)	Ø13	90.5(mm)
NVS 8FFV		1/2"NPT female inlet	1/2" NPT female outlet	1/4" NPT female	1/2" NPT (F)	1/2" NPT (M)	Vent 1/4" NPT	58(mm)	Ø13	90.5(mm)
NVS 12FFV		3/4" NPT Female inlet	3/4" NPT Female Outlet	1/4" NPT female	3/4" NPT (F)	3/4" NPT (M)	Vent 1/4" NPT	58(mm)	Ø14	90.5(mm)
NVS 4M4FV		1/4"NPT-Male inlet	1/4"NPT-Female Outlet	1/4"NPT-Female	1/4" NPT (F)	1/4" NPT (M)	Vent 1/4" NPT	58(mm)	Ø13	90.5(mm)
NVS 8M8FV		1/2"NPT-Male inlet	1/2"NPT-Female Outlet	1/4"NPT-Female	1/2" NPT (F)	1/2" NPT (M)	Vent 1/4" NPT	58(mm)	Ø13	90.5(mm)
NVS 12M12FV		3/4"NPT-Male inlet	3/4" NPT Female Outlet	1/4"NPT-Female	3/4" NPT (F)	3/4" NPT (M)	Vent 1/4" NPT	58(mm)	Ø14	90.5(mm)

Needle Valves
(Bar Stock)



Part Number	Max. Working Pressure	End Connection		Dimensions					
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F
NVS 4A	3000Psi 6000 Psi 10000 Psi	1/4"Tube O.D.	1/4"Tube O.D.	1/4" Tube O.D	1/4" Tube O.D	Hex 14	58(mm)	Ø13	50(mm)
NVS 6A		3/8"Tube O.D.	3/8"Tube O.D.	3/8" Tube O.D	3/8" Tube O.D	Hex 17	58(mm)	Ø13	55(mm)
NVS 8A		1/2"Tube O.D.	1/2"Tube O.D.	1/2" Tube O.D	1/2" Tube O.D	Hex 22	58(mm)	Ø14	65(mm)
NVS M6A		6 mm Tube O.D.	6 mm Tube O.D.	6 mm Tube O.D.	6 mm Tube O.D.	Hex 14	58(mm)	Ø13	50(mm)
NVS M10A		10 mm Tube O.D.	10 mm Tube O.D.	10 mm Tube O.D.	10 mm Tube O.D.	Hex 17	58(mm)	Ø13	55(mm)
NVS M12A		12mm Tube O.D.	12mm Tube O.D.	12mm Tube O.D.	12mm Tube O.D.	Hex 22	58(mm)	Ø13	65(mm)

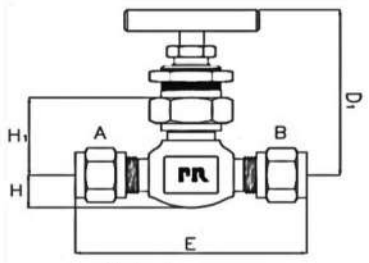
Needle Valves
(Multi Port Gauge Valve)



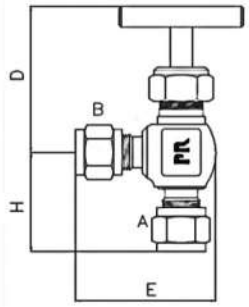
Part Number	Max. Working Pressure	End Connection		Dimensions						
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F	G
GVS 8	3000Psi 6000 Psi 10000 Psi	1/2"NPT-Male	3x1/2"NPT-Female	1/2" NPT (M)	1/2" NPT (M)	Plug 1/2" NPT	58(mm)	Ø13	Vent Plug 1/2" NPT	120(mm)
GVS 12		3/4"NPT-Male	3x1/2"NPT-Female	3/4" NPT (M)	1/2" NPT (M)	Plug 1/2" NPT	58(mm)	Ø13	Vent Plug 1/2" NPT	120(mm)

NEEDLE VALVE

OD (TUBE END CONNECTIONS)



Globe Pattern



Angle Pattern

Globe Pattern

Part Number	Max. Working Pressure	End Connection		Dimensions (mm)					
Pars Regulator		Inlet	Outlet		D	D^1	E	H	H^1
NEGOO10M002*	10000Psi	1/8" TUBE	1/8" TUBE	inch	2 7/32	2 3/4	2 1/8	19/6 4	1 1/32
				mm	56	70	54	8	26
NEGMM10M002*		1/8" male NPT	1/8" male NPT	inch	2 1/8	2 21/32	1 3/4	2 5/64	15/16
				mm	54	67	44	10	24
NEGMN10M002*		1/8" male NPT	1/8" female NPT	inch	2 1/8	2 21/32	1 3/4	2 5/64	15/16
				mm	54	67	44	10	24
NEGNN10M002*		1/8" female NPT	1/8" female NPT	inch	2 1/8	2 21/32	1 3/4	2 5/64	15/16
				mm	54	67	44	10	24
NEGOO10M004*		1/4" TUBE	1/4" TUBE	inch	2 1/8	2 21/32	2 3/8	2 5/64	15/16
				mm	54	67	60	10	24
NEGMO10M004*		1/4" male NPT	1/4" TUBE	inch	2 1/8	2 21/32	2 3/16	25/64	15/16
				mm	54	67	56	10	24
NEGMM10M004*		1/4" male NPT	1/4" male NPT	inch	2 1/8	2 21/32	2	25/64	15/16
				mm	54	67	51	10	24
NEGOO10M3m*		3mm TUBE	3mm TUBE	inch	2 3/16	2 3/4	2 1/8	19/64	1 1/32
				mm	56	70	54	8	26
NEGOO10M6m*		6mm TUBE	6mm TUBE	inch	2 1/8	2 21/32	2 3/8	25/64	15/16
				mm	54	67	60	10	24
NEG0010M8m*		8mm TUBE	8mm TUBE	inch	2.125	2 21/32	2 3/8	25/64	15/16
				mm	54	67	60	10	24

Angle Pattern

Part Number	Max. Working Pressure	End Connection		Dimensions (mm)					
Pars Regulator		Inlet	Outlet		D	D^1	E	H	H^1
NEAOO10M002*	10000Psi	1/8" TUBE	1/8" TUBE	inch	2 7/32	2 3/4	1 1/2	1 1/64	1 1/64
				mm	56	70	38	26	26
NEAMM10M002*		1/8" male NPT	1/8" male NPT	inch	2 1/8	2 21/32	1 17/64	7/8	15/16
				mm	54	67	32	22	24
NEANN10M002*		1/8" female NPT	1/8" female NPT	inch	2 1/8	2 21/32	1 17/64	7/8	15/16
				mm	54	67	32	22	24
NEAMO10M002*		1/8" male NPT	1/4" TUBE	inch	2 1/8	2 21/32	1 19/32	7/8	15/16
				mm	54	67	40	22	24
NEAOO10M004*		1/4" TUBE	1/4" TUBE	inch	2 1/8	2 21/32	1 19/32	1 3/16	15/16
				mm	54	67	40	30	24
NEAMO10M004*		1/4" male NPT	1/4" TUBE	inch	2 1/8	2 21/32	1 19/32	7/8	15/16
				mm	54	67	40	22	24
NEAMM10M004*		1/4" male NPT	1/4" male NPT	inch	2 1/8	2 21/32	1 17/64	7/8	15/16
				mm	54	67	32	22	24
NEAOO10M6m*		6mm TUBE	6mm TUBE	inch	2 1/8	2 21/32	1 37/64	1 3/16	15/16
				mm	54	67	40	30	24

All dimensions could be considered as reference.

***D^1 and H^1 For valves with panel mounting.**

***Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1**

Instrument Ball Valve Introduction

Pars Regulator is one of the World's Leading Manufacturers of Instrumentation Valves and Manifolds.
Selection can be made from a comprehensive range of bodies with a variety of connections and material options, optimizing installation and access opportunities. Many of the valves shown in this catalogue are available from stock or within a short period of time. The dimensions shown in this catalogue apply to standard types. If you need the dimensions for your individual type please contact us.
Continuous product development may from time to time necessitate changes in the details contained in this catalogue. Pars Regulator reserves the right to make such changes at their discretion and without prior notice.
All dimensions shown in this catalogue are approximate and subject to change.

Features:

Bore Size:
The difference between a standard ball valve and a full-port ball valve is in the size of the ball and bore in relation to the nominal pipe size of the valve. For example, the bore size in a 3/4-inch full-port ball valve is 3/4-inch in diameter, while the bore diameter in a standard ball valve is 1/2-inch in diameter.
Ball sizes are in proportion to bore sizes. The 1/2-inch diameter is the nominal size of the next smaller pipe. This is typical. Full-port bore size equals pipe size; standard-port bore size is the next smaller pipe size.
Flow Coefficient
The flow coefficient is a measure of the resistance to flow of a given part of a fluid system. It is used to calculate the length of straight pipe equivalent to an elbow or valve or anything else that affects the flow. The flow coefficient for a full-port ball valve is almost as low as that of straight pipe so it provides
minimal resistance to flow and thus creates only a small pressure drop. The standard-port ball valve has a higher flow coefficient and thus causes a larger pressure drop for a given flow.

Main reference codes:

- National Association of Corrosion Engineers (NACE MR0175/ISO 15156-3) and MR0103
- ASME/ANSI B1.20.1 General Pipe Threads
- ASME/ANSI B16.34 Valves Flanged, Threaded
- ASME/ANSI B16.11 Fittings/Socket Weld, etc.
- ASME/ANSI B31.3 Process Piping
(except M Fluid Service)
- MSS SP-25 Standard Valve Markings
- MSS SP-82 Valve Pressure Testing Methods
- MSS SP-99 Instrument Valves

Seat Material:

- Soft seated
- METAL-TO-METAL SEAT: for high temperatures (larger than 250°c) or dirt/slurry service, Floating Ball Valves can be provided with a spring-energized seat, and hard facing on seat and ball contact surfaces (Tungsten or Chromium Carbide).

INSPECTION AND TESTING:

Every valve is subjected on routine base to different non-destructive testing, like the dye penetrant test on butt weld ends, on all hard faced and cladding areas. Non-destructive tests are also carried out on the critical areas as defined by ASME B16.34.
Optional examinations like:
Magnetic participles ✓ Hydrostatic test ✓ Air test
Personnel performing NDT are trained and qualified to EN 473/ ASNT-SNT-TC-1A.
Every valve is subject to a pressure test in accordance with the standard API 598 or BS 6755 Part.1.
The rated pressure for the applicable pressure class is in accordance with ASME B16.34 and EN 12516-1/-2.

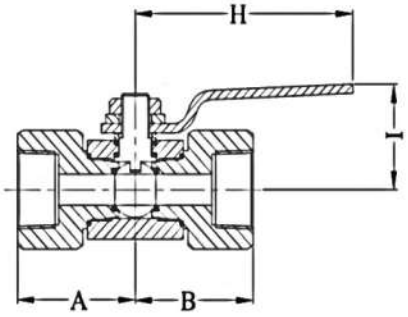
MARKING AND IDENTIFICATION

Each valve is identified on proper name plate and on valve body as required by MSS SP-25 and ASME B16.34. Name plate carries all information or rating, size, valve body and trim material, customer tags.
On body, marking includes material designations (per ASTM) and heat code and for course the trade mark.

INSTRUMENTATION BALL VALVE

NPT F.F (FEMALE PIPE THREAD END CONNECTIONS)

HPBV SERIES



Part Number Pars Regulator	Max. Working Pressure	End Connection	Dimensions (mm)			
			A	B	I	H
BA1NN3M004*	3000Psi	1/4 Female NPT	46	46	43	105
BA1NN3M006*		3/8 Female NPT	46	46	43	105
BA1NN3M008*		1/2 Female NPT	46	46	43	105
BA1NN3M012*		3/4 Female NPT	46	46	43	105
BA1NN3M016*		1 Female NPT	59	59	54	155

Part Number Pars Regulator	Max. Working Pressure	End Connection	Dimensions (mm)			
			A	B	I	H
BA1NN6M004*	6000Psi	1/4 Female NPT	46	46	43	105
BA1NN6M006*		3/8 Female NPT	46	46	43	105
BA1NN6M008*		1/2 Female NPT	46	46	43	105
BA1NN6M012*		3/4 Female NPT	59	59	54	155
BA1NN6M016*		1 Female NPT	59	59	54	155

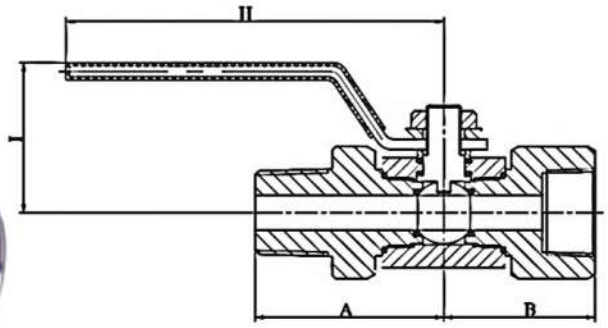
*All dimensions could be considered as reference.

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

INSTRUMENTATION BALL VALVE

NPT F.M(FEMALE& MALE PIPE THREAD END CONNECTIONS)

HPBV SERIES



Part Number	Max. Working Pressure	End Connection	Dimensions (mm)			
Pars Regulator			A	B	I	H
BA1NM3M004*	3000Psi	1/4 Female*Male NPT	46	46	42	105
BA1NM3M006*		3/8 Female*Male NPT	46	48	42	105
BA1NM3M008*		1/2 Female*Male NPT	46	48	42	105
BA1NM3M012*		3/4 Female*Male NPT	48	48	42	105
BA1NM3M016*		1 Female*Male NPT	59	59	54	155

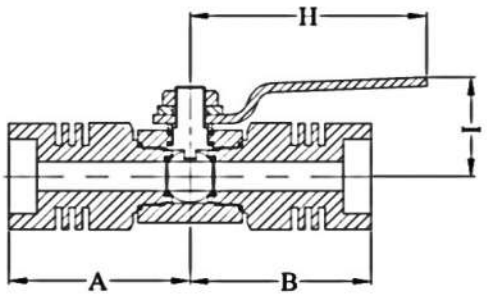
Part Number	Max. Working Pressure	End Connection	Dimensions (mm)			
Pars Regulator			A	B	I	H
BA1NM6M004*	6000Psi	1/4 Female*Male NPT	46	46	43	105
BA1NM6M006*		3/8 Female*Male NPT	46	46	43	105
BA1NM6M008*		1/2 Female*Male NPT	46	46	43	105
BA1NM6M012*		3/4 Female*Male NPT	59	59	54	155
BA1NM6M016*		1 Female*Male NPT	59	59	54	155

*All dimensions could be considered as reference.

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

INSTRUMENTATION BALL VALVE
SW(SOCKET WELD END CONNECTIONS)

HPBV SERIES



Part Number	Max. Working Pressure	End Connection	Dimensions (mm)			
Pars Regulator			A	B	I	H
BA1CC3M004*	3000Psi	1/4 SW	62	62	43	105
BA1CC3M006*		3/8 SW	62	62	43	105
BA1CC3M008*		1/2 SW	62	62	43	105
BA1CC3M012*		3/4 SW	62	62	43	105
BA1CC3M016*		1 SW	79	79	54	155

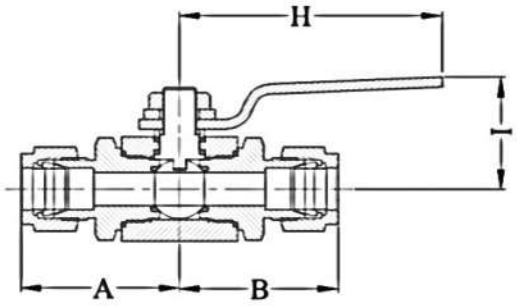
Part Number	Max. Working Pressure	End Connection	Dimensions (mm)			
Pars Regulator			A	B	I	H
BA1CC6M004*	6000Psi	1/4 SW	62	62	43	105
BA1CC6M006*		3/8 SW	62	62	43	105
BA1CC6M008*		1/2 SW	62	62	43	105
BA1CC6M012*		3/4 SW	79	79	54	155
BA1CC6M016*		1 SW	79	79	54	155

*All dimensions could be considered as reference.

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

INSTRUMENTATION BALL VALVE
OD (TUBE END CONNECTIONS)

HPBV SERIES



Part Number	Max. Working Pressure	End Connection	Dimensions (mm)			
Pars Regulator			A	B	I	H
BA1OO3M004*	3000Psi	1/4 OD	43	43	43	105
BA1OO3M006*		3/8 OD	45	45	43	105
BA1OO3M008*		1/2 OD	48	48	43	105
BA1OO3M012*		3/4 OD	50	50	43	105
BA1OO3M016*		1 OD	55	55	54	155
BA1OO3M096*		6 OD	43	43	43	105
BA1OO3M128*		8 OD	45	45	43	105
BA1OO3M160*		10 OD	48	48	43	105
BA1OO3M192*		12 OD	50	50	43	105

Part Number	Max. Working Pressure	End Connection	Dimensions (mm)			
Pars Regulator			A	B	I	H
BA1OO6M004*	6000Psi	1/4 OD	43	43	43	105
BA1OO6M006*		3/8 OD	45	45	43	105
BA1OO6M008*		1/2 OD	48	48	43	105
BA1OO6M012*		3/4 OD	50	50	54	155
BA1OO6M016*		1 OD	55	55	54	155
BA1OO6M096*		6 OD	43	43	43	105
BA1OO6M128*		8 OD	45	45	43	105
BA1OO6M160*		10 OD	48	48	43	105
BA1OO6M192*		12 OD	50	50	54	155

*All dimensions could be considered as reference.

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

Introduction of Manifold

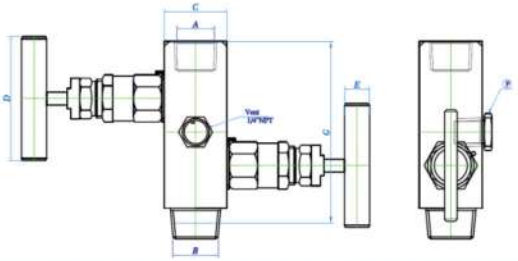
Pars Regulator manufactures offers a variety of 2-3 and 5 way valve instrument manifolds. The 2 valve manifolds are designed for static pressure and liquid level applications; 3 and 5 valve manifolds are designed for differential pressure applications.

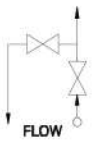
Inspection and Testing

Hydrostatic Proof Test=1.5×Max Working Pressure
(strength test body and gland seal)
Sealing Test Max= 1.1×Working Pressure

Valve Manifold	For 6000 psi Working Pressure	For 3000 psi Working Pressure
Max. pre. Rating	6000 psi (413 bar)	3000 psi (207 bar)
Hydrostatic pre. Test (Seat)	6600 psi (455 bar)	3300 psi (228 bar)
Hydrostatic pre. Test (body)	9000 psi (620 bar)	4500 psi (310 bar)
Temp rating	-55 to 200C	-55 to 200C

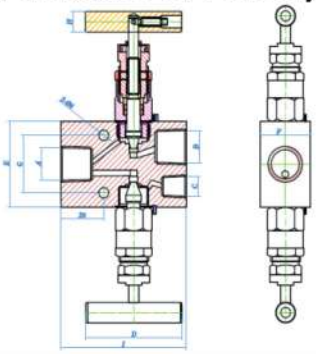
MANIFOLD
NPT (PIPE THREAD END CONNECTIONS)
Two Valve Manifold for gauge

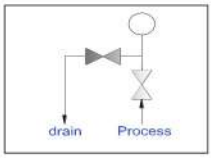




Part Number	Max. Working Pressure	End Connection		Dimensions						
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F	G
2VG2NS	3000Psi 6000Psi	1/4"NPT-Male inlet	1/4"NPT-Female outlet	1/4" NPT(F)	1/4"NPT (M)	SQ32×32	58(mm)	Ø13	Vent 1/4" NPT	89(mm)
2VG4NS		1/2"NPT-Male inlet	1/2"NPT-Female outlet	1/2" NPT(F)	1/2" NPT (M)	SQ32×33	58(mm)	Ø13	Vent 1/4" NPT	95(mm)
2VG2NS-F		1/4"NPT-Female outlet	1/4"NPT-Female outlet	1/4" NPT(F)	1/4"NPT (M)	SQ32×32	58(mm)	Ø13	Vent 1/4" NPT	85(mm)
2VG4NS-F		1/2"NPT-Female outlet	1/2"NPT-Female outlet	1/2" NPT(F)	1/2" NPT (M)	SQ32×33	58(mm)	Ø13	Vent 1/4" NPT	95(mm)

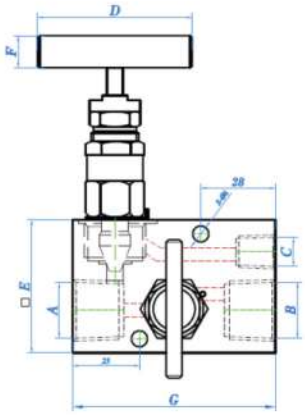
MANIFOLD
Two Valve Manifold(Vertical Port Inlet)

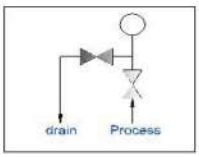




Part Number	Max. Working Pressure	End Connection		Dimensions							
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F	G	H
LS2V	3000Psi 6000Psi	1/2" NPT Female inlet	1/2 NPT-Female	1/2" NPT (F)	1/2" NPT (F)	1/4" NPT (F)	58(mm)	50(mm)	32(mm)	33.5(mm)	Ø13

MANIFOLD
Two Valve Manifold (for panel mounting)

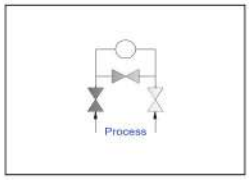


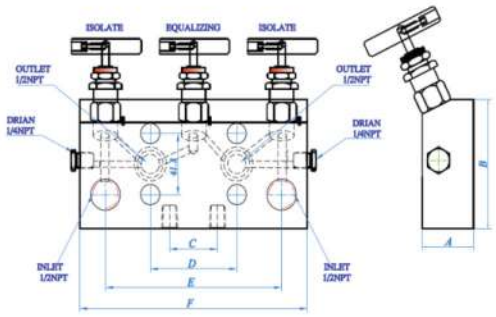


Part Number	Max. Working Pressure	End Connection			Dimensions						
Pars Regulator		Inlet	Outlet	Drain/Test	A	B	C	D	E	F	G
LS2H	3000Psi 6000Psi	1/2 NPT-Female	1/2 NPT-Female	1/4 NPT-Female	1/2"NPT (F)	1/2"NPT (F)	1/4"NPT (F)	58(mm)	50×32	Ø13	76(mm)

MANIFOLD

3Way Manifold

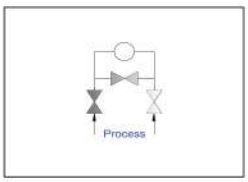


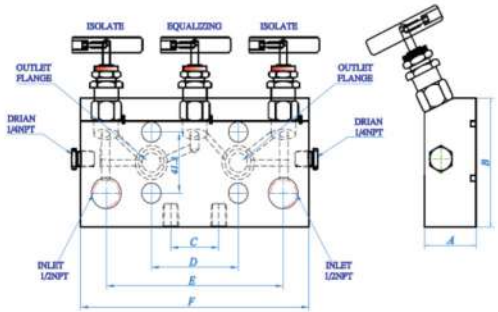


Part Number	Max. Working Pressure	End Connection		Dimensions					
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F
LS3	3000Psi 6000Psi	1/2" NPT Female inlet	1/2" NPT Female Outlet	32(mm)	76(mm)	30(mm)	54(mm)	110(mm)	142(mm)

MANIFOLD

3 Way Manifold (for divert

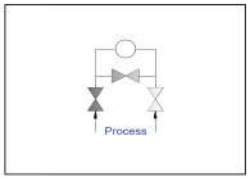


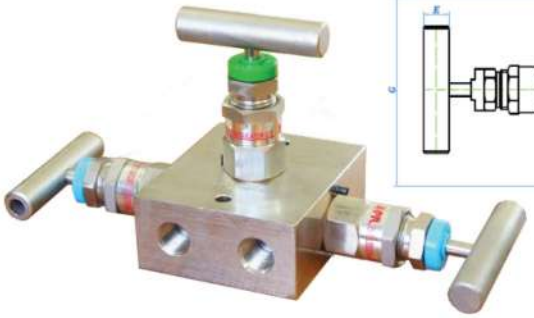


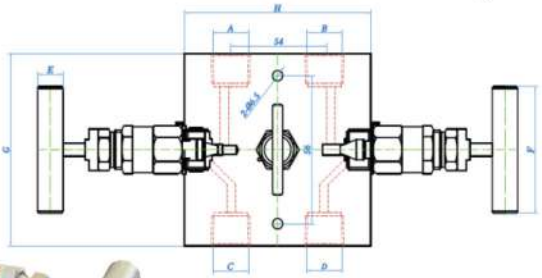
Part Number	Max. Working Pressure	End Connection		Dimensions					
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F
DS3	3000Psi 6000Psi	1/2" NPT Female inlet	Flange	32(mm)	76(mm)	30(mm)	54(mm)	110(mm)	142(mm)

MANIFOLD

3Way Manifold (for line remote installation)

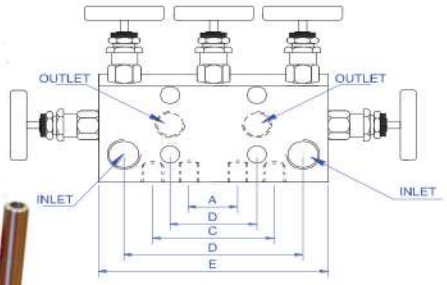


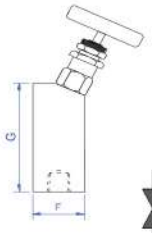


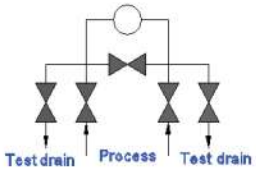


Part Number	Max. Working Pressure	End Connection		Dimensions							
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F	G	H
LS3H	3000Psi 6000Psi	1/2" NPT Female inlet	1/2" NPT Female outlet	1/2"NPT (F)	1/2"NPT (F)	1/2"NPT (F)	1/2"NPT (F)	Ø13	58(mm)	76(mm)	86(mm)

MANIFOLD
NPT (PIPE THREAD END CONNECTIONS)

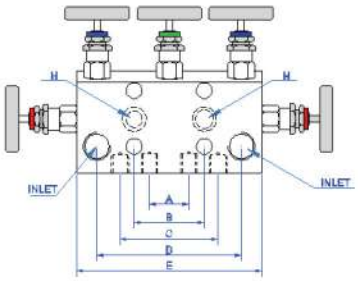


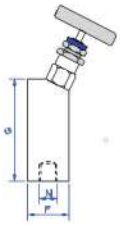


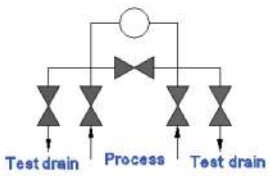


Part Number	Max. Working Pressure	End Connection		Dimensions							
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F	G	H
LS5	3000Psi 6000Psi	1/2" NPT Female inlet	1/2" NPT Female	30(mm)	54(mm)	75(mm)	110(mm)	142(mm)	32(mm)	76(mm)	1/2" NPT Female

MANIFOLD
NPT (PIPE Flange END CONNECTIONS)

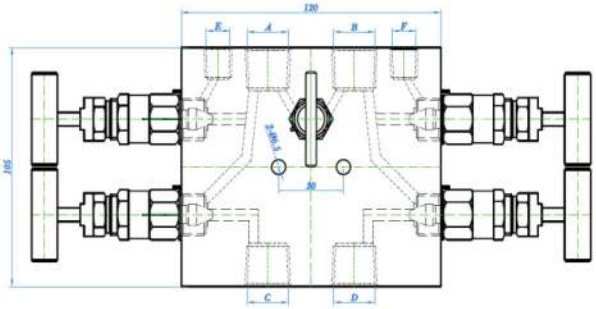


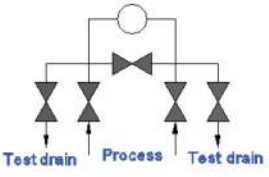




Part Number	Max. Working Pressure	End Connection		Dimensions							
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F	G	H
DS5	3000Psi 6000Psi	1/2" NPT Female inlet	Flanged	30(mm)	54(mm)	75(mm)	110(mm)	142(mm)	32(mm)	76(mm)	1/2" Flange

MANIFOLD
5Way Manifold (for line mounting)





Part Number	Max. Working Pressure	End Connection		Dimensions					
Pars Regulator		Inlet	Outlet	A	B	C	D	E	F
LS5H	3000 Psi 6000Psi	1/2" NPT Female inlet	1/2" NPT Female outlet	1/2"NPT (F)	1/2"NPT (F)	1/2"NPT (F)	1/2"NPT (F)	1/4"NPT (F)	1/4"NPT (F)

DOUBLE BLOCK & BLEED VALVE

The Double Block and Bleed Valve can perform the tasks of 3 separate valves (2 isolation valves and 1 drain valve) which apart from being hugely space saving can also save on weight and time due to installation and maintenance activities requiring much less work and the operator being able to locate and operate all 3 valves in one location. It has been customary for manifold systems and other process piping, where inter-contamination of products was undesirable, to employ two valves back to back with a small bleed valve located between them. This is commonly referred to as a "Double Block and Bleed System" or "Block and Bleed Service". Using PTFE or Hypalon as a seat material has permitted the substitution of a single valve for the two valves which made up the previous system. A bleed valve is required and is connected to the body cavity around the ball of the ball valve. A Double Block and Bleed arrangement requires that both seats be tight, and act as upstream seals when there is pressure on one or both sides of the valve, with the cavity around the ball being bled to atmosphere by opening the body drain valve. Design features a Special Block and Bleed seat design has been developed in valve size ½" through 2" inclusive, which will act as an upstream seat without impairing its ability to act also as a downstream seat.

Double Block and Bleed Concept

The increased activity in the offshore sector of the energy industry has led to additional factors that have to be taken into consideration when designing piping systems. Space in these modern locations is always at a premium and the design of piping systems and their associated components must therefore be more compact. There are structural constraints that are also very important, such as keeping the structure as light as possible, and there are obvious benefits from making components smaller and lighter. Construction at sea is a very expensive and any reduction in installation man hours is also beneficial. The above situation has led to the modification of the designs of valve components to incorporate saving in space, weight, and labor costs where possible, while still retaining the original function of the valve. The greatest savings are to be seen in the reduction of leak to atmosphere because the potential leak paths are minimized compared to the conventional design.

Process isolation philosophy has become more complex as safety issues have to be addressed and the requirement for double block and bleed isolation has become more commonly used. Double block and bleed isolation requires a vent or bleed isolation valve, used to drain or vent trapped fluid between the two closure elements.

Benefits of Block and Bleed Valves

Block and bleed valves are beneficial for preventing leakages or mixing of fluids with critical components. This makes it ideal for use in petrochemical environments where there is a need to handle and manage toxic waste and other dangerous chemicals. The monitoring provided in the valve allows easy venting of the liquids and provides considerable safety in high-risk environments. Furthermore, block and bleed valves are important for keeping operation and production costs to a minimum. The efficiency of the valves prevents the need for multi-valve systems and ensures high project operational efficiency in a range of industries from LNG and petrochemical to natural gas processing.

Types of Block and Bleed Valves

Different types of block and bleed valves offer different features. Block and bleed valves are also known as isolation valves or isolation manifolds. A manifold that features a number of valves is useful for using in gas lines, as well as in various industrial services. Other types of block and bleed valves include the double block and bleed valves, three piece non-standard length double block and bleed valves, block and bleed needle valves, single unit double block and bleed valves, and cartridge type length double block and bleed valves. The standard double block and bleed valves, for instance, are used for chemical injections under high pressure environments or for handling toxic fluid processes. Needle valves, on the other hand, are used in instrumentation and hydraulic systems.

Double Block & Bleed – Floating Type

The design of PR ball valves is based on the "floating ball" principle which allows the ball to move freely between the ball seats. A positive seal is assured by fluid pressure acting on the upstream surface of the ball and producing a constant uniform contact between the downstream ball seat and the ball. The ball is operated by a sealed spindle with a mating square end to which the control handle or operator/actuator is attached. Ball valves are intended to be used as on/off flow control devices and are not to be used to throttle fluid flow; the valves should always be either fully open or fully closed.

Example-1) : PR -DB-D11 - F 8 R1 N 8 - P -SS
1 3 4 5 3 4 6 7

Example-2) : PR -DB-D11 - FB - F 8 R3- P -SS
1 2 3 4 5 6 7

1.VALVE SERIES

SERIES IDENTIFY				1ts ISOLATE	2ts ISOLATE	VENT
SB	SINGLE BLOCK & BLEED VALVES	S1	1	BALL	-	NEEDLE
		S1	2	BALL	-	OS & Y
		S1	3	BALL	-	BALL
		S2	1	OS & Y	-	OS & Y
		S2	2	OS & Y	-	NEEDLE
		S2	3	NEEDLE	-	NEEDLE
DB	DOUBLE BLOCK & BLEED VALVES	D1	1	BALL	BALL	NEEDLE
		D1	2	BALL	BALL	OS & Y
		D1	3	BALL	BALL	BALL
		D1	4	BALL	NEEDLE	NEEDLE
		D1	5	BALL	BALL	-
		D1	6	BALL	NEEDLE	-
		D2	1	OS & Y	OS & Y	OS & Y
		D2	2	OS & Y	OS & Y	NEEDLE
		D2	3	OS & Y	NEEDLE	NEEDLE
		D2	4	NEEDLE	NEEDLE	NEEDLE

2. Bore size (mm)
(STD) - 10mm (standard)
15- 15mm
RB- Reducer Bore
FB- Full Bore

3. Connection type
F- RAISED FACE FLANGE
J- RING JOINT FLANGE
N- FEMAIL NPT
M- MALE NPT
FF- FLAT FACE FLANGE
BW- BUTT WELD
SW- SOCKET WELD

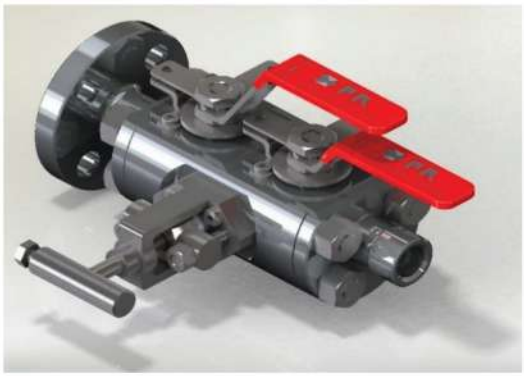
4. Connection size(inch)
4- 1/4" 16- 1"
6- 3/8" 24- 1.1/2"
8- 1/2" 32- 2"
12- 3/4"

5. Flange rating (class)
R1- 150 R4- 900
R2- 300 R5- 1500
R3- 600 R6- 2500

6. Ball seat material
RP- R.PTFE
P- PTFE

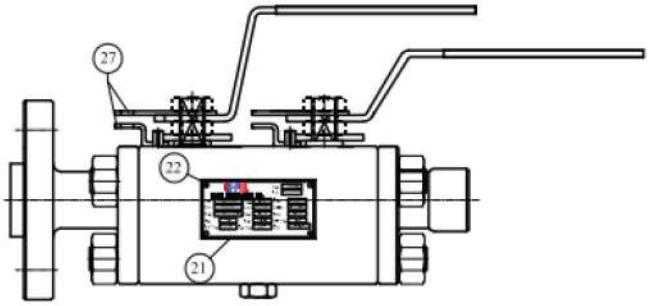
7. Body material
SS- ASTM A182 GR 316L
105- ASTM A105
LF2- ASTM A350 LF2

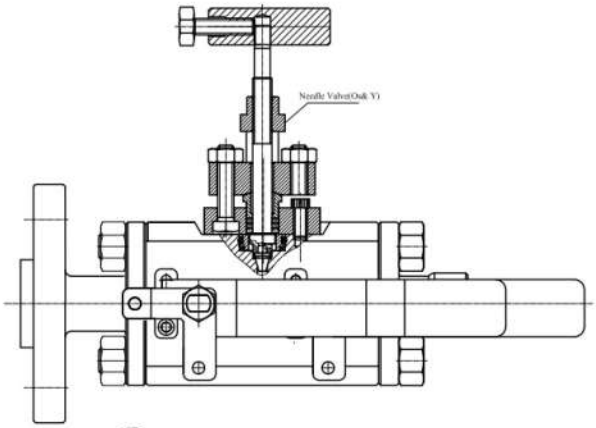
- Reduced or full port
- Construction: B.B , OS & Y
- Socket Welding & Threaded ends
- Material for hard trim is Depend on Client notice & operating condition

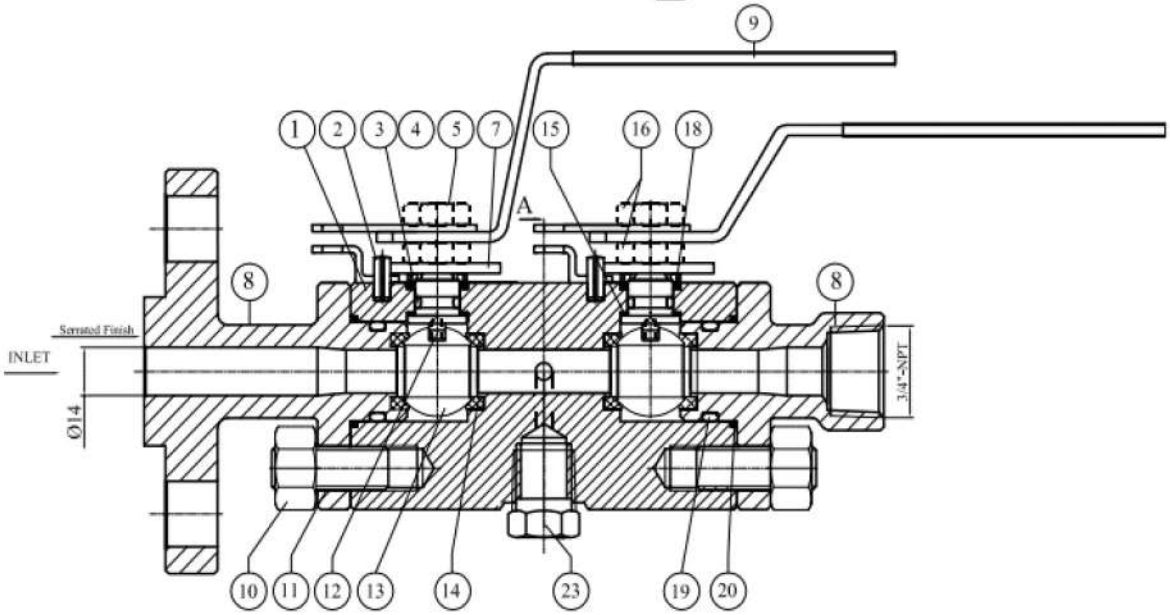


Materials of

Row	PART NAME	Row	PART NAME
1	Body	14	Seat
2	Stopn Pin	15	Thrust Washer
3	Steam O-Ring	16	Stem Nut
4	Ring	18	Stem Gasket
5	Stem	19	Bonnet O-ring
7	Indicator	20	Body Gasket
8	Closure	21	Name Plate
9	Wrench	22	Pin
10	Body Nut	23	Hex Plug 1.4 npt
11	Body Stud Bolt	24	Needle Valve (Type 3)
12	Spring	27	Locking Device
13	Ball		





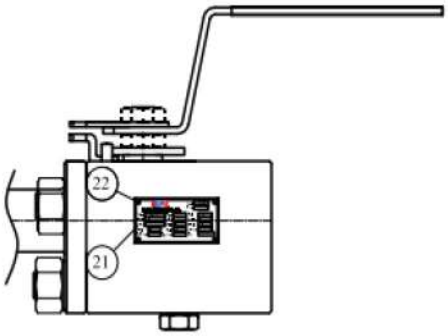


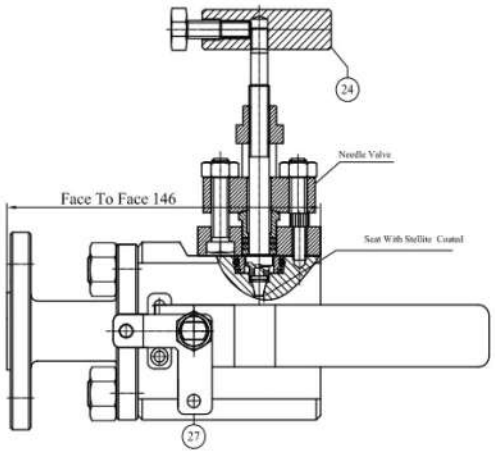
DBBV

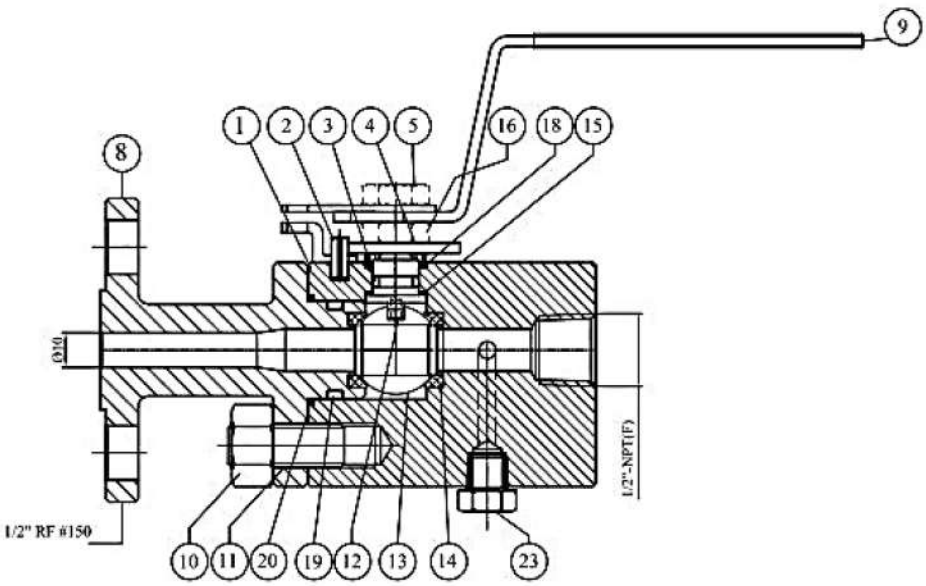
- Reduced or full port
- Construction :B.B , OS & Y
- Socket Welding & Threaded ends
- Material for hard trim is Depend on Client notice & oprating condition

Materials of Construction

Row	PART NAME	Row	PART NAME
1	Body	14	Seat
2	Stopn Pin	15	Thrust Washer
3	Steam O-Ring	16	Stem Nut
4	Ring	18	Stem Gasket
5	Stem	19	Bonnet O-ring
7	Indicator	20	Body Gasket
8	Closure	21	Name Plate
9	Wrench	22	Pin
10	Body Nut	23	Hex Plug 1.4 npt
11	Body Stud Bolt	24	Needle Valve (Type 3)
12	Spring	27	Locking Device
13	Ball		



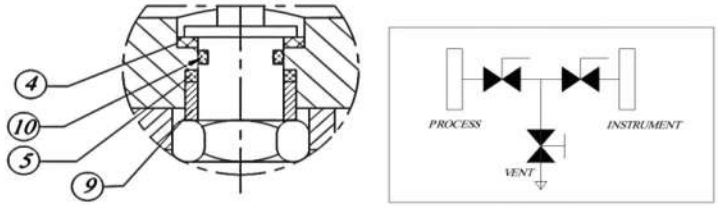




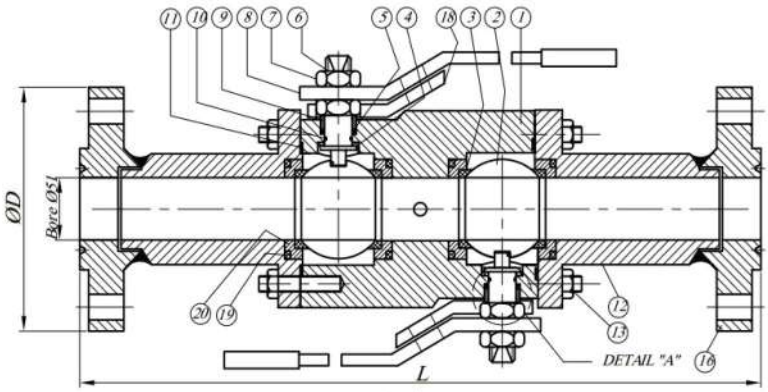
DBBV

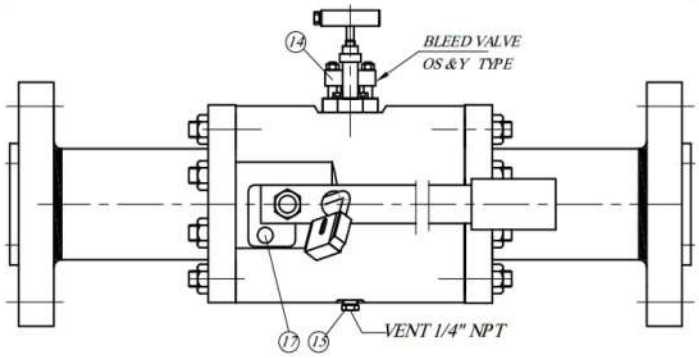
- ASME B 16.5
- FACE CONDITION125-250 AARH
- WRENCH OPERATION
- BALL ARRANGEMENT: FLOATING
- ANTI-BLOWOUT BECAUSE OF BODY AND STEM CONDITION

BOM		
1	BODY	A105N
2	BALL	S.S316
3	SEAT	PTFE
4	THRUST BEARING	PTFE
5	STEM PACKING	PTFE
6	STEM	S.S316L
7	NUT	S.S304
8	HANDEL (STOPPER)	C.S
9	GLAND	S.S316L
10	O-RING	VITON
11	BODY SEAL	PTFE
12	BONNET	A105N
13	BOLT/NUT	A194-GR2HM/A193 GR.B7M
14	OS & Y	SEAT:17-4PH BONNET:A182 F316L SEAL: PTFE
15	PLUG	A105L
16	FLANGE	A105L
17	STOP PIN	S.S316L
18	LOCKING DEVICE	S.S
19	RETAINER SEAL	PTFE
20	SEAT RETAINER	S.S316L



DETAIL A





DBBV

PIPING VALVES
SMALL VALVES

PR PRODUCT Memos

1. Various types of valves are required in any piping system in order to regulate the fluid flow within that system.

2. Valves are installed on equipment/piping to perform any of the following functions,
   - Isolation
   - Regulation
   - Non-Return
   - Special Purpose

3. It is imperative that process piping engineer should be familiar with all types of valves and the advent of any new designs. Thorough knowledge of the operation, maintenance, and adjustment of valves is equally important since the success of the process plant and its total activity will depend on it.

Introduction

Forged steel Gate valves are mainly used for the shutoff on various systems of thermal power station, especially for non-corrosive mediums like water and steam with high temperature and high pressure. In service, these valves generally are either fully open or fully closed. When fully open, the fluid or gas flows through the valve in a straight line with very little resistance. Gate valves should not be used in the regulation or throttling of flow because accurate control is not possible. Furthermore, high-flow velocity in partially opened valves may cause erosion of the discs and seating surfaces. Vibration may also result in chattering of the partially opened valve disc. An exception to the above are specially designed gate valves that are used for low-velocity throttling, for example, guillotine gate valves for pulp stock.

Advantages of Gate Valves

1. They have good shutoff characteristics.
2. They are bidirectional.
3. The pressure loss through the valve is minimal.

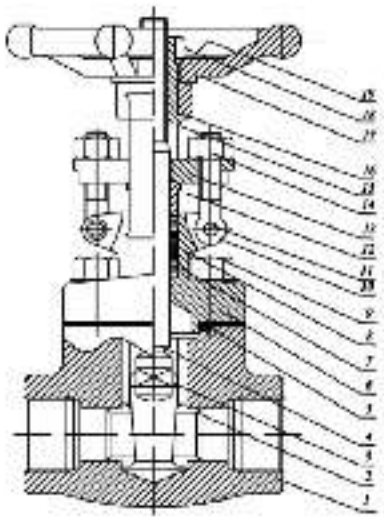
Type Wedge of Gate Valve

Four types of wedges. 1. solid 2. hollow 3. split 4. flexible wedge.

Features Solid wedge

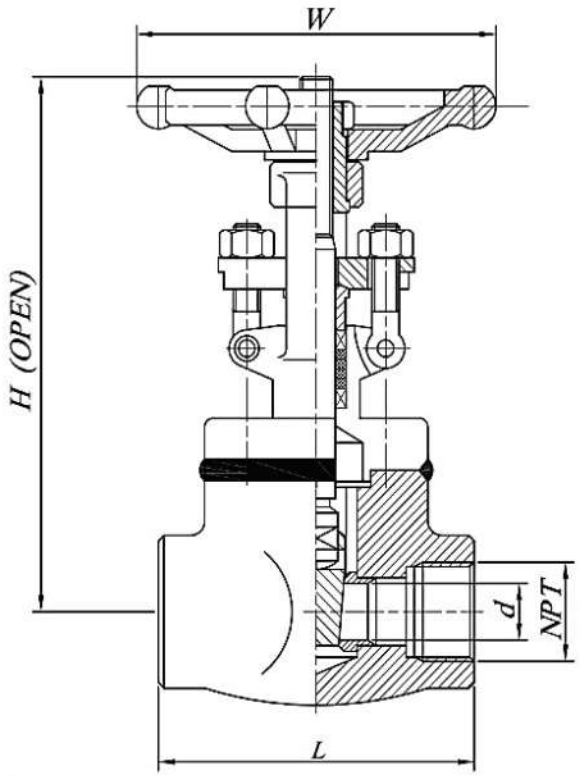
- A single-piece solid construction
- It is most susceptible to leakage
- Generally used in moderate to lower pressure-temperature applications
- The disc cannot be jammed into the body, an action that might make it difficult to open the valve. This is particularly important where motors are used for opening and closing the valve.
- It does not compensate for changes in seat alignment due to pipe end loads or thermal fluctuations.
- Considered the most economical

the body, an action that might make it difficult to open the valve. This is particularly important where motors are used for opening and closing the valve.
- It does not compensate for changes in seat alignment due to pipe end loads or thermal fluctuations.
- Considered the most economical



No.	Component	Material/ASTM SPECIFICATION
1	Body	A105N
2	SEAT RING	ASTM A276-420
3	WEDGE	ASTM A182-F6a
4	STEM	ASTM A276-410
5	GASKET	S.S 304+Graphite
6	BONNET	A105N
7	PACKING	Fiber
8	BONNET BOLT	Graphite
9		ASTM A193-B7M
10	GLAND BOLT(EYE BOLT)	ASTM A193-B7M
11	GLAND BOLT PIN	S.S 304 (ISO 8740)
12	GLAND	ASTM A276-410
13	GLAND FLANGE	A105N
14	GLAND NUT	ASTM A194-2HM
15	YOKE SLEEVE	CR.13
16	SLEEVE WASHER	AISI 1025
17	HANDWHEEL	Malleable Iron
18	HW NUT	AISI 1025+Cr. Plated
19	NAMEPLATE	S.S 304

GATE VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



W.B

Features and Applications

- Reduced or full port
- Construction :W.B (OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Material for hard trim is Depend on Client notice & operating condition
- Design & manufacture: API 602 & ANSI B 16.34
- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

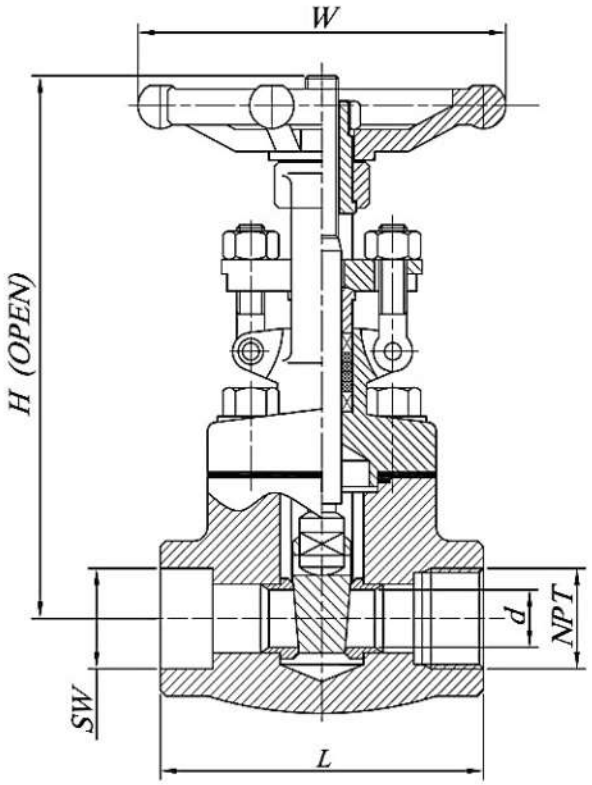
Part Number		CLASS	Size		Dimension				Weight	
Pars Regulator			Reducer Bore	Full Bore	d	L	H(Open)	W	W.W	W.W
NPT	SW				mm	mm	mm	mm	Kg	
GAWNN4C*	GAWCC4C*	800	1/4"	-	7	79	166	100	2.5	-
GAWNN4C*	GAWCC4C*		3/8"	-	7	79	166	100	2.4	-
GAWNN4C*	GAWCC4C*		1/2"	3/8"	10	79	166	100	2.3	2.4
GAWNN4C*	GAWCC4C*		3/4"	1/2"	12.7	92	169	100	2.6	2.7
GAWNN4C*	GAWCC4C*		1"	3/4"	18	111	193	125	4.5	4.6
GAWNN4C*	GAWCC4C*		1 1/4"	1"	23	120	230	160	5.9	6.1
GAWNN4C*	GAWCC4C*		1 1/2"	1 1/4"	28.5	120	246	160	7.2	7.4
GAWNN4C*	GAWCC4C*		2"	1 1/2"	36	140	283	180	11.2	11.4
GAWNN4C*	GAWCC4C*		-	2"	43	170	332	200	18.8	19.1

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

GATE VALVE

NPT (PIPE THREAD END CONNECTIONS)

SW(SOCKET WELD END CONNECTIONS)



B.B

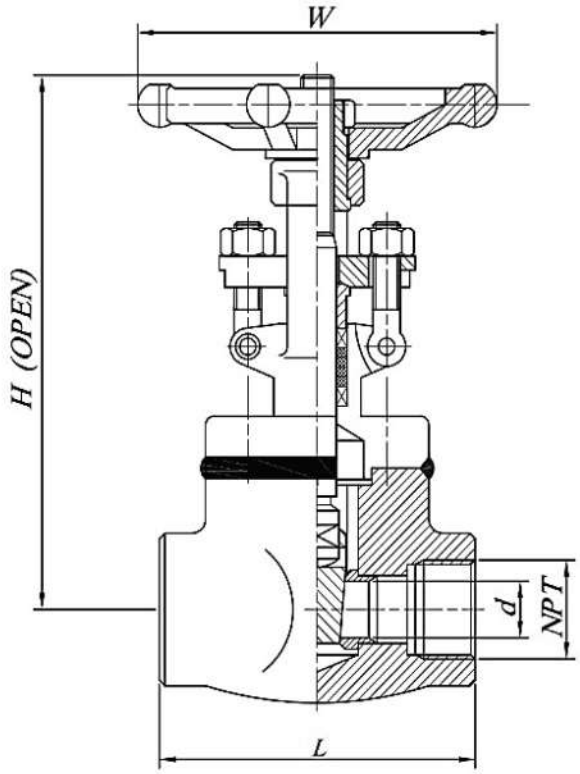
Features and Applications

- Reduced or full port
- Construction :B.B (OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Material for hard trim is Depend on Client notice & oeprating condition
- B.B : BOLTED BONNET
- Design & manufacture: API 602 & ANSI B 16.34
- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Size		Dimension				Weight	
Pars Regulator			Reducer Bore	Full Bore	d	L	H(Open)	B	W.B	B.B
NPT	SW				mm	mm	mm	mm	Kg	
GABNN4C*	GABCC4C*	800	1/4"	-	7	79	166	100	2.5	-
GABNN4C*	GABCC4C*		3/8"	-	7	79	166	100	2.4	-
GABNN4C*	GABCC4C*		1/2"	3/8"	10	79	166	100	2.3	2.4
GABNN4C*	GABCC4C*		3/4"	1/2"	12.7	92	169	100	2.6	2.7
GABNN4C*	GABCC4C*		1"	3/4"	18	111	193	125	4.5	4.6
GABNN4C*	GABCC4C*		1 1/4"	1"	23	120	230	160	5.9	6.1
GABNN4C*	GABCC4C*		1 1/2"	1 1/4"	28.5	120	246	160	7.2	7.4
GABNN4C*	GABCC4C*		2"	1 1/2"	36	140	283	180	11.2	11.4
GABNN4C*	GABCC4C*		-	2"	43	170	332	200	18.8	19.1

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

GATE VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



Features and Applications

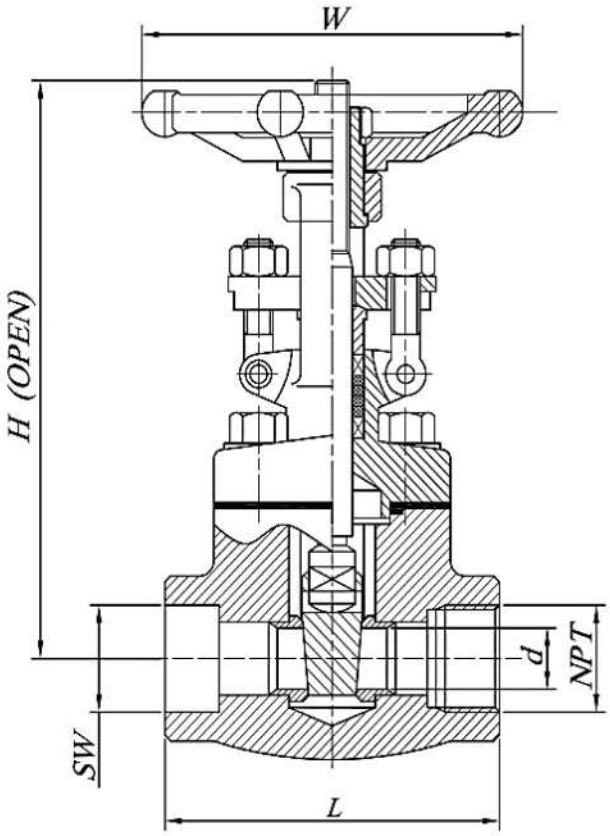
W.B

- Reduced or full port
- Construction :W.B(OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Material for hard trim is Depend on Client notice & oeprating condition
- W.B : WELDED BONNET
- Design & manufacture: API 602 & ANSI B 16.34
- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Nominal Diameter	Dimension				Weight	
Pars Regulator				d	L	H(Open)	W	B.B	W.B
NPT	SW			mm	mm	mm	mm	Kg	
GAWNN5C*	GAWCC5C*	1500	3/8"	10	79	170	100	4.7	4.8
GAWNN5C*	GAWCC5C*		1/2"	12.7	92	193	100	4.7	4.8
GAWNN5C*	GAWCC5C*		3/4"	18	111	230	100	6.8	6.9
GAWNN5C*	GAWCC5C*		1"	23	120	246	125	9.0	9.2
GAWNN5C*	GAWCC5C*		1 1/4"	28.5	120	283	160	12.4	12.6
GAWNN5C*	GAWCC5C*		1 1/2"	36	140	325	160	17.5	17.7
GAWNN5C*	GAWCC5C*		2"	43	170	334	180	18.0	17.9

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

GATE VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



B.B

Features and Applications

- Reduced or full port
- Construction :W.B (OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Material for hard trim is Depend on Client notice & oeprating condition
- W.B : WELDED BONNET
- Design & manufacture: API 602 & ANSI B 16.34
- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Nominal Diameter	Dimension				Weight	
Pars Regulator				d	L	H(Open)	W	B.B	W.B
NPT	SW			mm	mm	mm	mm	Kg	
GABNN5C*	GABCC5C*		3/8"	10	79	170	100	4.7	4.8
GABNN5C*	GABCC5C*		1/2"	12.7	92	193	100	4.7	4.8
GABNN5C*	GABCC5C*		3/4"	18	111	230	100	6.8	6.9
GABNN5C*	GABCC5C*	1500	1"	23	120	246	125	9.0	9.2
GABNN5C*	GABCC5C*		1 1/4"	28.5	120	283	160	12.4	12.6
GABNN5C*	GABCC5C*		1 1/2"	36	140	325	160	17.5	17.7
GABNN5C*	GABCC5C*		2"	43	170	334	180	18.0	17.9

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

Introduction

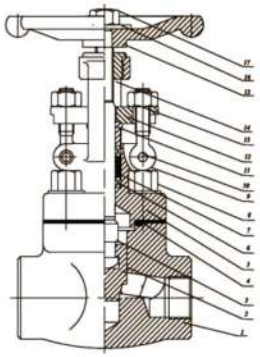
The globe valve is suitable for use on a wide variety of applications, from flow rate control to open/close operation. flow rate control is determined not by the size of the opening in the valve seat, but rather by the lift of the valve plug (the distance the valve plug is from the valve seat). Globe valves usually have rising stems, and the larger sizes are of the outside screw-and-yoke construction. Components of the globe valve are similar to those of the gate valve.
Maintenance of globe valves is relatively easy, as the discs and seats are readily refurbished or replaced. This makes globe valves particularly suitable for services which require frequent valve maintenance. Where valves are operated manually, the shorter disc travel offers advantages in saving operator time, especially if the valves are adjusted frequently. Generally, the maximum differential pressure across the valve disc should not exceed 20 percent of the maximum upstream pressure or 200 psi (1380 kPa), whichever is less.

Features of Globe Valve

- Good shut-off capability
- Globe valves are extensively employed to control flow
- High-differential pressure-throttling service require specially designed valve trim.
- Moderate to good throttling capability
- Shorter stroke (compared to a gate valve)
- Available in tee, wye, and angle patterns, each offering unique capabilities
- Easy to machine or resurface the seats
- With disc not attached to the stem, valve can be used as a stop-check valve
- There is less risk of damage to the valve seat or valve plug by the fluid than with other types of manual valves
- Needle type globe valves are particularly well suited for flow rate control.

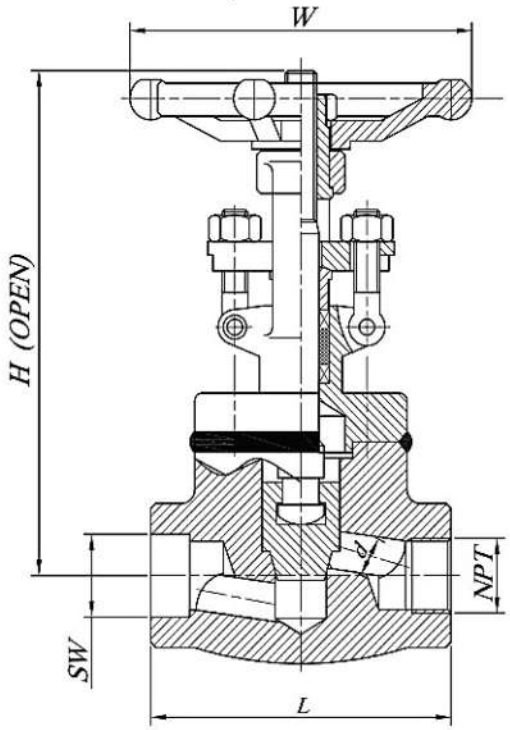
Typical Applications of Globe Valves

The following are some of the typical applications of globe valves:
- Cooling water systems where flow needs to be regulated
- Fuel oil system where flow is regulated and leak tightness is of importance
- High-point vents and low-point drains when leak tightness and safety are major considerations
- Feed water, chemical feed, condenser air extraction, and extraction drain systems
- Boiler vents and drains, main steam vents and drains, and heater drains
- Turbine seals and drains
- Turbine lube oil system and others.



No.	Component	Matrial/ASTM SPECIFICATION
1	Body	A105N
2	SEAT RING	ASTM A276-420
3	WEDGE	ASTM A182-F6a
4	STEM	ASTM A276-410
5	GASKET	S.S 304+Graphite
6	BONNET	A105N
7	PACKING	Fiber
8		Graphite
9	BONNET BOLT	ASTM A193-B7M
10	GLAND BOLT (EYE BOLT)	ASTM A193-B7M
11	GLAND BOLT PIN	S.S 304 (ISO 8740)
12	GLAND	ASTM A276-410
13	GLAND FLANGE	A105N
14	GLAND NUT	ASTM A194-2HM
15	YOKE SLEEVE	CR.13
16	SLEEVE WASHER	AISI 1025
17	HANDWHEEL	Malleable Iron
18	H/W NUT	AISI 1025+Cr. Plated
19	NAMEPLATE	S.S 304

GLOBE VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



Features and Applications

W.B

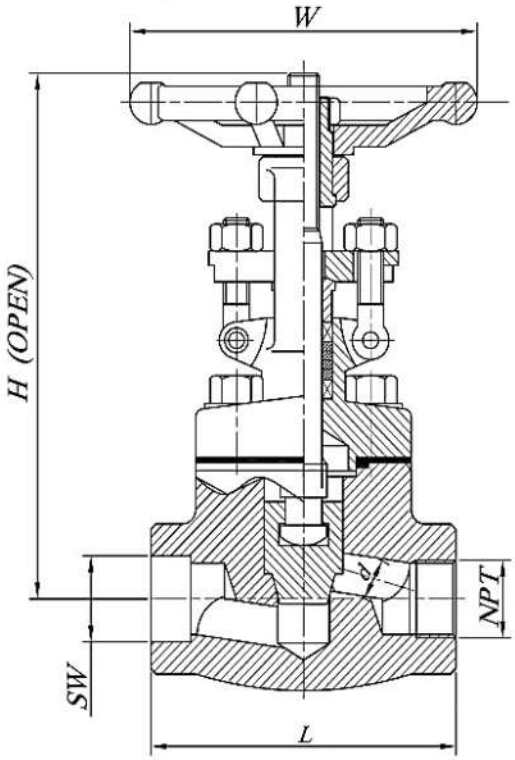
- Reduced or full port
- Construction :W.B(OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Integral seat
- Design & manufacture: API 602 & ANSI B 16.34
- W.B : WELDED BONNET

- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1 (NPT)
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Size		Dimension				Weight	
Pars Regulator			Reducer Bore	Full Bore	d	L	H(Open)	W	B.B	W.B
NPT	SW				mm	mm	mm	mm	Kg	
GOWNN4C*	GOWCC4C*	800	1/4"	-	8	79	166	100	2.6	-
GOWNN4C*	GOWCC4C*		3/8"	-	10	79	166	100	2.5	-
GOWNN4C*	GOWCC4C*		1/2"	3/8"	11	79	166	100	2.4	2.5
GOWNN4C*	GOWCC4C*		3/4"	1/2"	13	92	175	100	2.6	2.7
GOWNN4C*	GOWCC4C*		1"	3/4"	18	111	206	125	4.5	4.7
GOWNN4C*	GOWCC4C*		1 1/4"	1"	23	120	228	160	5.9	6.1
GOWNN4C*	GOWCC4C*		1 1/2"	1 1/4"	28.5	152	262	160	8.3	8.5
GOWNN4C*	GOWCC4C*		2"	1 1/2"	33	172	300	180	12.4	12.6
GOWNN4C*	GOWCC4C*		-	2"	43	220	340	240	20	20.4

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

GLOBE VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



Features and Applications

B.B

- Reduced or full port
- Construction :B.B (OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Integral seat
- Design & manufacture: API 602 & ANSI B 16.34
- B.B : BOLTED BONNET
- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1 (NPT)
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

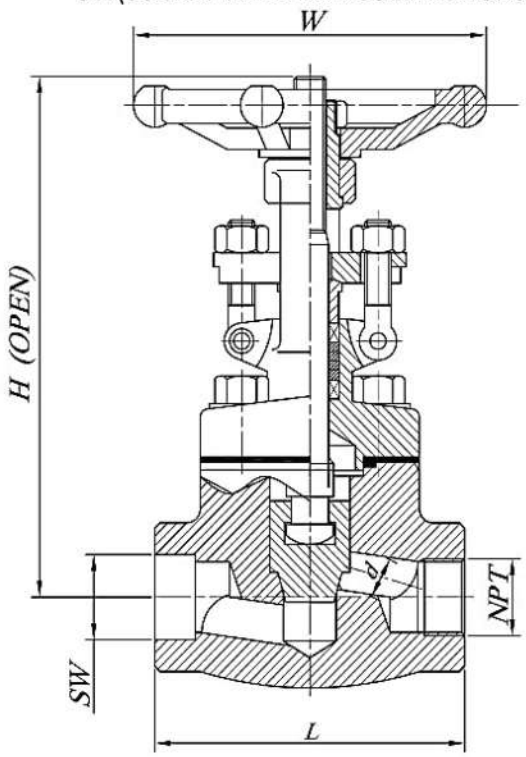
Part Number		CLASS	Size		Dimension				Weight	
Pars Regulator			Reducer Bore	Full Bore	d	L	H(Open)	W	B.B	W.B
NPT	SW				mm	mm	mm	mm	Kg	
GOBNN4C*	GOBCC4C*		1/4"	-	8	79	166	100	2.6	-
GOBNN4C*	GOBCC4C*		3/8"	-	10	79	166	100	2.5	-
GOBNN4C*	GOBCC4C*		1/2"	3/8"	11	79	166	100	2.4	2.5
GOBNN4C*	GOBCC4C*		3/4"	1/2"	13	92	175	100	2.6	2.7
GOBNN4C*	GOBCC4C*	**800**	1"	3/4"	18	111	206	125	4.5	4.7
GOBNN4C*	GOBCC4C*		1 1/4"	1"	23	120	228	160	5.9	6.1
GOBNN4C*	GOBCC4C*		1 1/2"	1 1/4"	28.5	152	262	160	8.3	8.5
GOBNN4C*	GOBCC4C*		2"	1 1/2"	33	172	300	180	12.4	12.6
GOBNN4C*	GOBCC4C*		-	2"	43	220	340	240	20	20.4

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

GLOBE VALVE

NPT (PIPE THREAD END CONNECTIONS)

SW(SOCKET WELD END CONNECTIONS)



Features and Applications

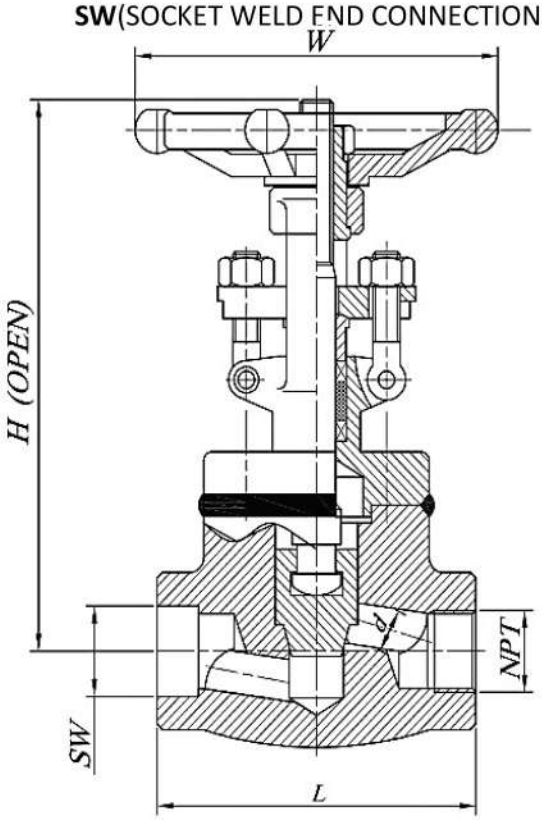
B.B

- Construction :B.B (OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Integral seat
- Design & manufacture: API 602 & ANSI B 16.34
- B.B : BOLTED BONNET
- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1 (NPT)
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Nominal Diameter	Dimension				Weight	
Pars Regulator				d	L	H(Open)	W	B.B	W.B
NPT	SW			mm	mm	mm	mm	Kg	
GOBNN5C*	GOBCC5C*	1500	3/8"	10	79	166	100	4.8	4.5
GOBNN5C*	GOBCC5C*		1/2"	13	92	170	100	4.7	4.1
GOBNN5C*	GOBCC5C*		3/4"	18	111	193	125	4.7	4.1
GOBNN5C*	GOBCC5C*		1"	23	120	230	160	6.3	6.7
GOBNN5C*	GOBCC5C*		1 1/4"	29	152	246	160	8.8	9.0
GOBNN5C*	GOBCC5C*		1 1/2"	33	172	283	180	12.4	12.1
GOBNN5C*	GOBCC5C*		2"	43	220	325	200	17.5	17

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

GLOBE VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



W.B

Features and Applications

- Construction : W.B(OS & Y)
- Gasket: Stainless Steel+graphite
- Socket Welding & Threaded ends
- Integral seat
- Design & manufacture: API 602 & ANSI B 16.34
- W.B : WELDED BONNET
- Socket welding dimension :ANSI B 16.11
- Screw end dimension :ANSI B1.20.1 (NPT)
- Inspect and test :API 598
- Body material:A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Nominal Diameter	Dimension				Weight	
Pars Regulator				d	L	H(Open)	W	B.B	W.B
NPT	SW			mm	mm	mm	mm	Kg	
GOWNN5C*	GOWCC5C*	1500	3/8"	10	79	166	100	4.8	4.5
GOWNN5C*	GOWCC5C*		1/2"	13	92	170	100	4.7	4.1
GOWNN5C*	GOWCC5C*		3/4"	18	111	193	125	4.7	4.1
GOWNN5C*	GOWCC5C*		1"	23	120	230	160	6.3	6.7
GOWNN5C*	GOWCC5C*		1 1/4"	29	152	246	160	8.8	9.0
GOWNN5C*	GOWCC5C*		1 1/2"	33	172	283	180	12.4	12.1
GOWNN5C*	GOWCC5C*		2"	43	220	325	200	17.5	17

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

Description

Check valves are designed to pass flow in one direction with minimum resistance and to prevent reverse or back flow with minimal leakage. The principal types of check valves used are the tee-pattern lift check, the swing check, the tilting-disc check, the Wye-pattern lift check, and the ball check. Check valves are available in sizes from NPS ¼ (DN 8) through NPS 2 (DN 50). Other sizes may be made available to meet specific size requirements. Depending upon the design requirements of a piping system, a check valve may have butt welding, socket welding, threaded, or flanged ends. They are self-actuated and require no external means to actuate the valve either to open or close. They are fast acting.

Types of Check Valves

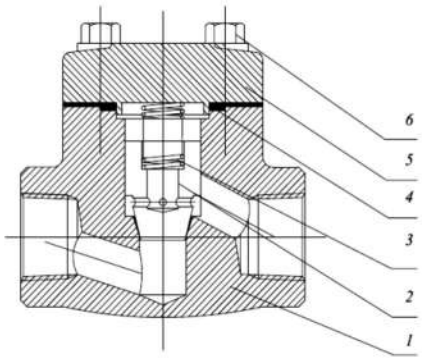
There are several types of check valves having varying body configurations. The following are some commonly used types of check valves:

1. Swing Check Valve
- The disc is unguided when it moves to fully open position or to fully closed position.
- Many different disc and seat designs are available to satisfy requirements of varying applications.
- Soft seated swing check valves provide improved leak tightness compared to metal to metal seating surfaces.
- Combination seats consisting of a metal seat ring with resilient insert also offer better leak tight characteristics.
- The seating angle, the angle between the seat and the vertical plane, may vary from 0 to 45 degrees. Vertical seats have a 0 angle. Larger seat angles reduce the disc travel, resulting in quick closing, thus minimizing the possibility of water hammer. Usually the seat angles are in the range of 5 to 7 degrees.

2. Lift Check Valve
- Adapted for high-pressure service where velocity of flow is high.
- The piston disc is accurately guided by long contact and a close sliding fit with the perfectly centered dash pot.
- The walls of the piston and dash pot are of approximately equal thickness.
- Large steam jackets are located outside of the dash pot and inside the piston to eliminate sticking because of differential expansion.

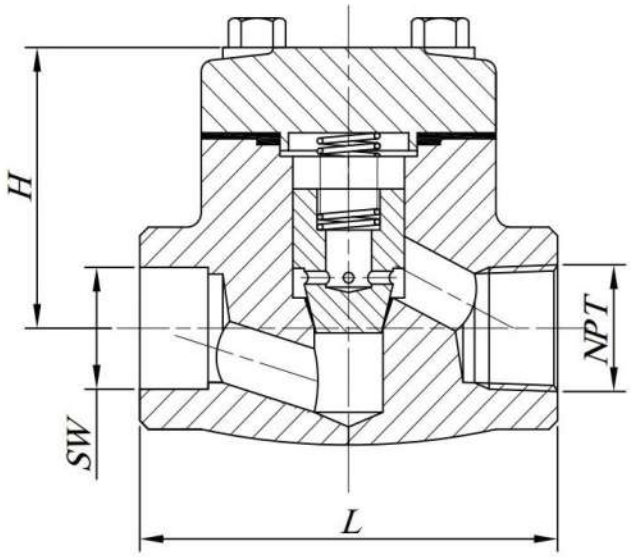
Application Considerations

- The flow velocity of the fluid through the valve has a significant effect on the life of the check valve.
- The valve should be sized such that the fluid velocity under normal conditions is sufficient to keep the disc fully open and pressed against the stop.
- A swing check valve may be used in the vertical run of a pipe only when the flow is upward.
- In addition, the flow velocity and the fluid pressure must be adequate to overcome the disc weight and swing it to the fully open position.
- A check valve should not be located immediately downstream of a source of turbulence, such as a pump, elbow, control valve, or a tee-branch connection.
- When the flow is suspected to be pulsating and low, use of a swing check valve is not recommended



No.	Component	Matrial/ASTM SPECIFICATION
1	Body	A105N
2	DISC	A276-419
3	SPRING	S.S 304
4	GASKET	S.S 304+Graphite
5	BONNET	A105N
6	BOLT	ASTM A193-B7M

CHECK VALVES
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



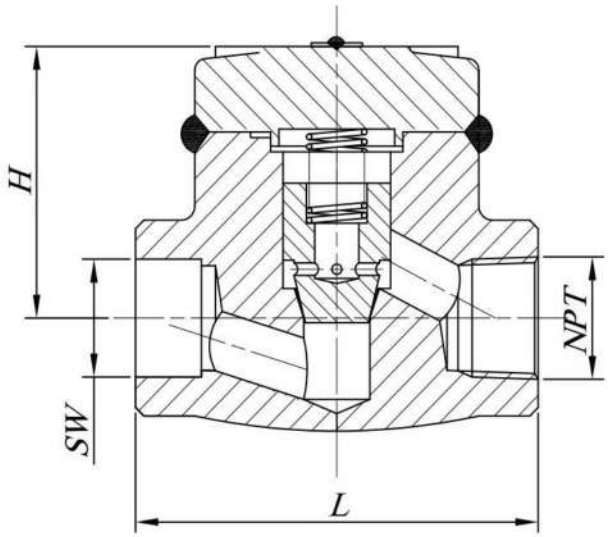
Features and Applications B.C

- Reduced or full port
- Construction :B.C (lift check valve)
- Gasket: Stainless Steel+graphite
- Socket Welding & threaded ends
- Integral seat
- Socket Welding dimension : ANSI B 16.11
- B.C : Bolted Cap
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B16.34,API 602
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Size		Dimension		
Pars Regulator			Reducer Bore	Full Bore	d	L	H
NPT	SW				mm	mm	mm
LCBNN4C*	LCBCC4C*	800	1/4"	-	7	79	62
LCBNN4C*	LCBCC4C*		3/8"	-	7	79	62
LCBNN4C*	LCBCC4C*		1/2"	3/8"	11	79	62
LCBNN4C*	LCBCC4C*		3/4"	1/2"	13	92	63
LCBNN4C*	LCBCC4C*		1"	3/4"	18	111	78
LCBNN4C*	LCBCC4C*		1 1/4"	1"	23	120	82
LCBNN4C*	LCBCC4C*		1 1/2"	1 1/4"	28	152	102
LCBNN4C*	LCBCC4C*		2"	1 1/2"	33	172	120
LCBNN4C*	LCBCC4C*		-	2"	42	220	147

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page1

CHECK VALVES
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



Features and Applications

W.C

- Reduced or full port
- Construction :W.C (lift check valve)
- Gasket: Stainless Steel+graphite
- Socket Welding & threaded ends
- Integral seat
- Socket Welding dimension : ANSI B 16.11
- W.C : Welded Cap
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B16.34,API 602
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L

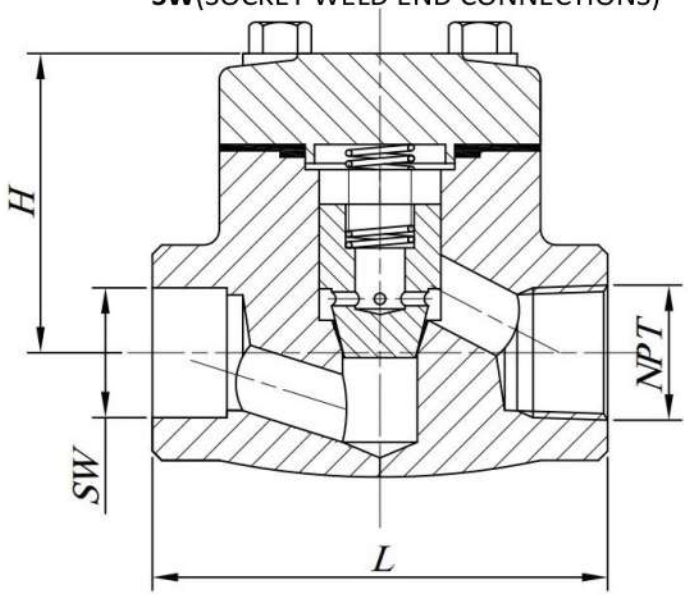
Part Number		CLASS	Size		Dimension		
Pars Regulator			Reducer Bore	Full Bore	d	L	H
NPT	SW				mm	mm	mm
LCWNN4C*	LCWCC4C*		1/4"	-	7	79	62
LCWNN4C*	LCWCC4C*		3/8"	-	7	79	62
LCWNN4C*	LCWCC4C*		1/2"	3/8"	11	79	62
LCWNN4C*	LCWCC4C*		3/4"	1/2"	13	92	63
LCWNN4C*	LCWCC4C*	**800**	1"	3/4"	18	111	78
LCWNN4C*	LCWCC4C*		1 1/4"	1"	23	120	82
LCWNN4C*	LCWCC4C*		1 1/2"	1 1/4"	28	152	102
LCWNN4C*	LCWCC4C*		2"	1 1/2"	33	172	120
LCWNN4C*	LCWCC4C*		-	2"	42	220	147

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

CHECK VALVE

NPT (PIPE THREAD END CONNECTIONS)

SW(SOCKET WELD END CONNECTIONS)



Features and Applications

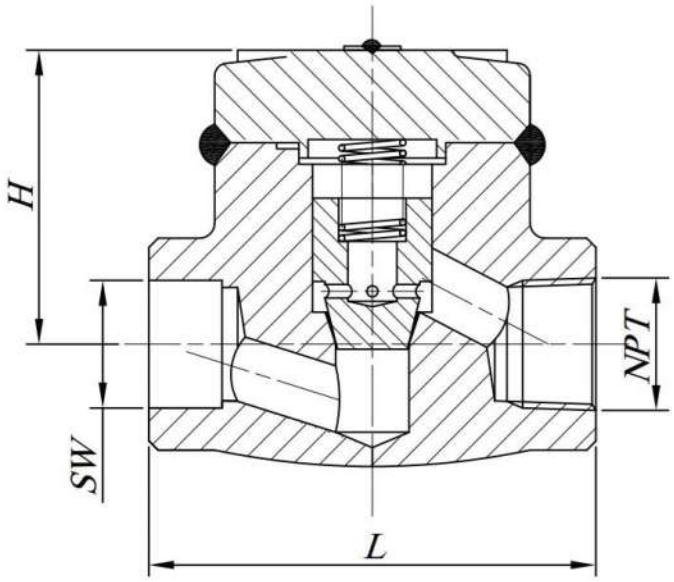
B.C

- Construction :B.C (lift check valve)
- Gasket: Stainless Steel+graphite
- Socket Welding & threaded ends
- Integral seat
- Socket Welding dimension : ANSI B 16.11
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B16.34,API 602
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Nominal Diameter	Dimensions	
Pars Regulator				L	H
NPT	SW			mm	mm
LCBNN5C*	LCBCC5C*	1500	1/2"	92	63
LCBNN5C*	LCBCC5C*		3/4"	111	98
LCBNN5C*	LCBCC5C*		1"	120	104
LCBNN5C*	LCBCC5C*		1 1/4"	152	120
LCBNN5C*	LCBCC5C*		1 1/2"	172	140
LCBNN5C*	LCBCC5C*		2"	220	158

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

CHECK VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



Features and Applications

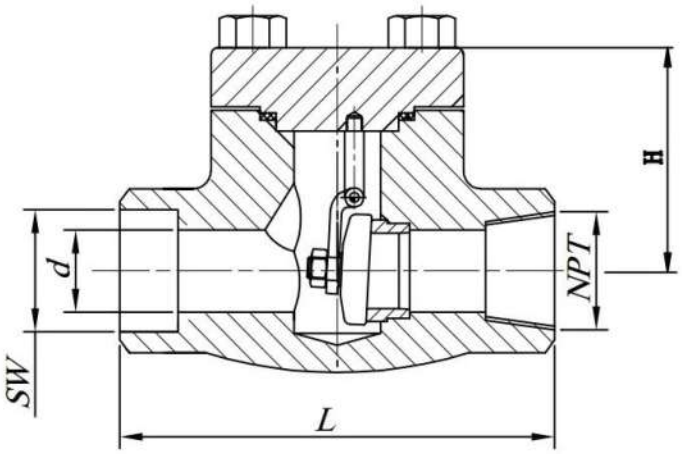
W.C

- Construction :W.C (lift check valve)
- Gasket: Stainless Steel+graphite
- Socket Welding & threaded ends
- Integral seat
- Socket Welding dimension : ANSI B 16.11
- W.C : Welded Cap
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B16.34,API 602
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Nominal Diameter	Dimensions	
Pars Regulator				L	H
NPT	SW			mm	mm
LCWNN5C*	LCWCC5C*	1500	1/2"	92	63
LCWNN5C*	LCWCC5C*		3/4"	111	98
LCWNN5C*	LCWCC5C*		1"	120	104
LCWNN5C*	LCWCC5C*		1 1/4"	152	120
LCWNN5C*	LCWCC5C*		1 1/2"	172	140
LCWNN5C*	LCWCC5C*		2"	220	158

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

SWING CHECK VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



Features and Applications

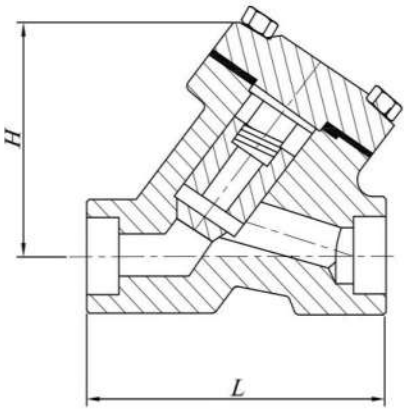
- Reduced or full port
- Construction :B.C swing check valve
- Gasket: Stainless Steel+graphite
- Socket Welding & threaded ends
- Replaceable hard-face seats
- Socket Welding dimension : ANSI B 16.11
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B16.34,API 602
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Check

Part Number		CLASS	Size		Dimension		
Pars Regulator			Reducer Port	Full Port	d	L	H
NPT	SW				mm	mm	mm
SC1NN4C*	SC1CC4C*	800	1/2"	3/8"	10	79	62
SC1NN4C*	SC1CC4C*		3/4"	1/2"	13	92	63
SC1NN4C*	SC1CC4C*		1"	3/4"	18	111	78
SC1NN4C*	SC1CC4C*		1 1/4"	1"	23	120	82
SC1NN4C*	SC1CC4C*		1 1/2"	1 1/4"	28.5	120	1102
SC1NN4C*	SC1CC4C*		2"	1 1/2"	36	140	120
SC1NN4C*	SC1CC4C*		-	2"	42	170	140

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

Y.Type CHECK VALVE
NPT (PIPE THREAD END CONNECTIONS)



Features and Applications

B.C

- Reduced or full port
- Construction :B.C

Ytype lift check valve with spring & piston

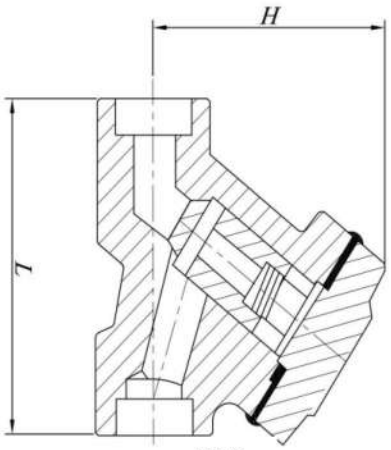
- Gasket: Stainless Steel+graphite
- Socket Welding & threaded ends
- Integral seat
- Socket Welding dimension : ANSI B 16.11
- B.C : Bolted Cap
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B16.34,API 602
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Part Number		CLASS	Nominal Diameter	Dimensions	
Pars Regulator				L	H
NPT	SW			mm	mm
YCBNN4C*	YCBCC4C*	800	3/8"	98	84
YCBNN4C*	YCBCC4C*		1/2"	98	84
YCBNN4C*	YCBCC4C*		3/4"	98	84
YCBNN4C*	YCBCC4C*		1"	120	102
YCBNN4C*	YCBCC4C*		1 1/4"	140	114
YCBNN4C*	YCBCC4C*		1 1/2"	140	115
YCBNN4C*	YCBCC4C*		2"	170	145

Part Number		CLASS	Nominal Diameter	Dimensions	
Pars Regulator				L	H
NPT	SW			mm	mm
YCBNN5C*	YCBCC5C*	1500	3/8"	120	90
YCBNN5C*	YCBCC5C*		1/2"	120	90
YCBNN5C*	YCBCC5C*		3/4"	120	101
YCBNN5C*	YCBCC5C*		1"	140	125
YCBNN5C*	YCBCC5C*		1 1/4"	140	132
YCBNN5C*	YCBCC5C*		1 1/2"	170	143
YCBNN5C*	YCBCC5C*		2"	220	203

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

Y.Type CHECK VALVE
NPT (PIPE THREAD END CONNECTIONS)
SW(SOCKET WELD END CONNECTIONS)



W.C

Features and Applications

- Reduced or full port
- Construction : W.C

Ytype lift check valve with spring & piston

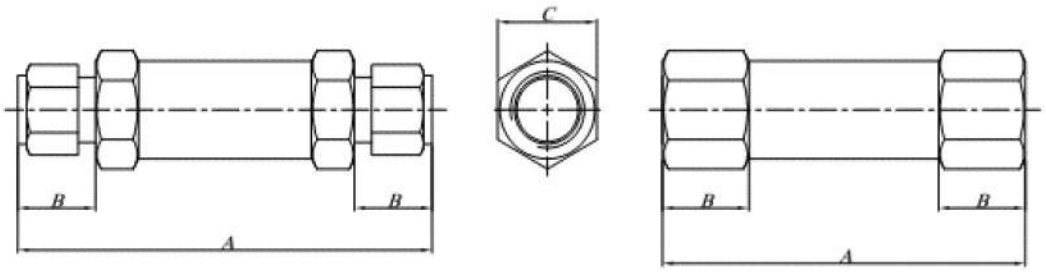
- Gasket: Stainless Steel+graphite
- Socket Welding & threaded ends
- Integral seat
- Socket Welding dimension : ANSI B 16.11
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B16.34,API 602
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L

Part Number		CLASS	Nominal Diameter	Dimensions	
Pars Regulator				L	H
NPT	SW			mm	mm
YCWNN4C*	YCWCC4C*	800	3/8"	98	84
YCWNN4C*	YCWCC4C*		1/2"	98	84
YCWNN4C*	YCWCC4C*		3/4"	98	84
YCWNN4C*	YCWCC4C*		1"	120	102
YCWNN4C*	YCWCC4C*		1 1/4"	140	114
YCWNN4C*	YCWCC4C*		1 1/2"	140	115
YCWNN4C*	YCWCC4C*		2"	170	145

Part Number		CLASS	Nominal Diameter	Dimensions	
Pars Regulator				L	H
NPT	SW			mm	mm
YCWNN5C*	YCWCC5C*	1500	3/8"	120	90
YCWNN5C*	YCWCC5C*		1/2"	120	90
YCWNN5C*	YCWCC5C*		3/4"	120	101
YCWNN5C*	YCWCC5C*		1"	140	125
YCWNN5C*	YCWCC5C*		1 1/4"	140	132
YCWNN5C*	YCWCC5C*		1 1/2"	170	143
YCWNN5C*	YCWCC5C*		2"	220	203

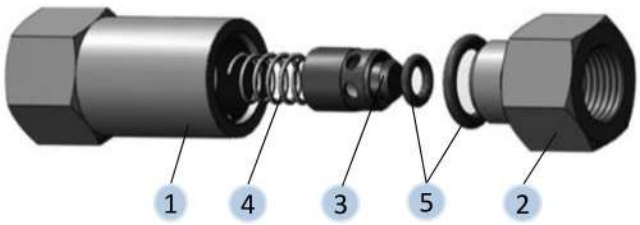
*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

CHECK VALVE
NPT (PIPE THREAD END CONNECTIONS)
OD (TUBE END CONNECTIONS)



Part Number	CLASS	End Connection		Dimensions (mm)		
Pars Regulator		Inlet	Outlet	A	B	C
CV01S2FF	6000	1/8"NPT female	1/8"NPT female	55	14	17
CV01S4FF		1/4"NPT female	1/4"NPT female	62	16	22
CV01S6FF		3/8"NPT female	3/8"NPT female	72	20	24
CV01S8FF		1/2"NPT female	1/2"NPT female	80	23	28
CV01S12FF		3/4"NPT female	3/4"NPT female	85	22	41
CV01S16FF		1"NPT female	1"NPT female	97	23	46
CV01S2OD		1/8" O.D.	1/8" O.D.	65	15.5	17
CV01S4OD		1/4" O.D.	1/4" O.D.	73	17.5	20
CV01S6OD		3/8" O.D.	3/8" O.D.	80	19.5	24
CV01S8OD		1/2" O.D.	1/2" O.D.	90	22	28
CV01SM6OD		6mm O.D.	6mm O.D.	73	17.5	20
CV01SM12OD		12MM O.D.	12MM O.D.	90	22	28

All dimensions could be considered as reference.



Check valve		
Component		Valve material Grade/ASTM Specification
1	inlet Body	316 ss/A276
2	outlet Body	316 ss/A276
3	Disk	316 ss
4	Spring	302 ss/A313
5	O-Ring	Viton

Introduction

The ball valve is basically a plug valve with a spherical plug and a round hole. Over recent years the materials of construction of the ball valve have been developed such that the ball valve is becoming the most popular valve for most process applications. There are two primary designs for the ball valve design:
✓ Floating Ball Design – This is low cost design for the lower classes
✓ Trunnion Ball Design – This is a more costly design for the higher classes
The engineering of the ball valve has to include for fixing and removing the ball and seat system. Ideally this has to be engineered to enable the valve to be maintained in-line. One method of achieving this is to use the top-entry
version – all of the internals are accessible by removing the top flange. Another method is to use a three piece body based on a central piece sandwiched between two pieces connecting the valve to the pipework. The central piece can be released and swung away from the two outer pieces allowing access to all of the valve components.
The ball valve can be engineered as a multi-port valve for flow diverting duties. An important advantage of all full bore valves is that the valve allows certain line cleaning operations e.g. rodding. Ball valves can also be used on branches to enable instruments to be fed into line systems during arriving [illegible]
periods.

Features:

• Provides tight shut-off of fluids and gases under extreme service conditions.
• Forging material has increased strength and/or maximum rated operation pressure compared with cast.
• When forging material are selected include greater impact resistance, resistance to fatigue cracking, particularly when cycling at either high or cryogenic temperature levels.
• A tight seal is achieved by fluid pressure acting on the upstream surface of the ball and producing a constant, uniform contact between the downstream ball seat and the ball.
• Floating ball valves can be manually operated (lever depending on valve size)
• Blowout-proof stem
• Swing-away body for maintenance ease
• Choice of threaded ends:
• Pipe threads to BS 21
• NPT threads to ASME B1.20.1
• Socket welding ends to BS 3351
• Socket welding ends to
ASME B16.11 ([illegible])

Main reference codes:

• Standard design in accordance with API 6D and ISO 17292/BS 5351.
• Anti-static design as per API 6D and ISO 17292
• Valve ends can be flanged (RF, FF, RTJ or [illegible]) according to ASME B16.5; Socket Welding, Butt-Welding, Female & Male threaded etc.
• Fire Safe according to BS 6755/ API 6FA/ API 607, Since each sealing point is provided by a secondary fire-safe sealing graphite. Valve soft seats also are provided with secondary metal-to-metal seal in case of fire.)

Seat Materials:

• Soft seated
• PTFE, [illegible] for higher temperatures (larger than 250°C) or dirty/slurry service, floating ball valves can be provided with a spring-energized seat, and hard facing on seat and ball contact surfaces (Tungsten or Chromium Carbide).

INSPECTION AND TESTING:

Every valve is subjected on routine base to different non-destructive testing, like the dye penetrant test on butt weld ends, on all hard faced and cladding areas. Non-destructive tests are also carried out on the critical areas as defined by ASME B16.34.
Optional examinations like:
✓ Magnetic particles ✓ Hydrostatic test ✓ Air test
Personnel performing NDT are trained and qualified to EN 473/ ASNT-SNT-TC-1A.
Every valve is subject to a pressure test in accordance with the standard API 598 or BS 6755 Part 1.
The rated pressure for the applicable pressure class is in accordance with ASME B16.34 and EN 12516-1/-2.

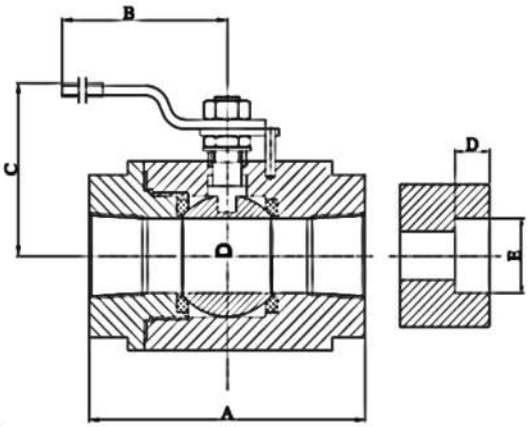
MARKING AND IDENTIFICATION

Each valve is identified on proper name plate and on valve body as required by MSS SP-25 and ASME B16.34. Name plate carries all information on rating, size, valve body and trim material, customer tags.
On body, marking includes material designations (per ASTM) and heat code and of course the trade mark.

Pars Regulator Co.

PIPING TWO PIECES FORGED BALL VALVE

NPT (PIPE THREAD END CONNECTIONS) , **SW**(SOCKET WELD END CONNECTIONS)



Features and Applications

- Socket Welding & threaded ends
- Socket welding dimension :ANSI B 16.11
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B 16.34
- Inspect and test: API 598
- Body material: A105,F304L,F316L
- For service at temperatures −29 °C and lower, materials shall be specified by the purchaser.
- all dimensions shown are for reference and subject to change without prior notice.

Part Number	CLASS	Size		Dimension							
				End to End		Lever		Center to Top		Ball Bore	
Pars Regulator		Reducer Bore	Full Bore	A		B		C		D	
				mm	in	mm	in	mm	in	mm	in
BA2NN8C*	800	-	1/4"	75	2.95	155	6.1	74	2.91	10	0.39
BA2NN8C*		1/2"	3/8"	75	2.95	155	6.1	74	2.91	10	0.39
BA2NN8C*		3/4"	1/2"	87	3.42	155	6.1	76	2.99	14	0.55
BA2NN8C*		1"	3/4"	105	4.13	170	6.69	98	3.86	19	0.75
BA2NN8C*		1 1/4"	1"	120	4.72	170	6.69	100	3.94	25	0.98
BA2NN8C*		1 1/2"	1 1/4"	130	5.11	230	9.05	120	4.72	32.5	1.29
BA2NN8C*		2"	1 1/2"	140	5.51	230	9.05	124	4.88	38	1.5
BA2NN8C*		-	2"	170	6.69	310	12.2	150	5.9	51	2

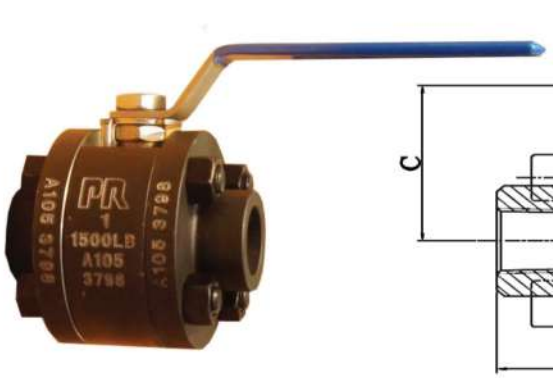
Part Number	CLASS	Size		Dimension							
				End to End		Lever		Center to Top		Ball Bore	
Pars Regulator		Reducer Bore	Full Bore	A		B		C		D	
				mm	in	mm	in	mm	in	mm	in
BA2NN5C*	1500	-	1/4"	80	3.15	155	6.1	76	2.99	10	0.39
BA2NN5C*		1/2"	3/8"	80	3.15	155	6.1	76	2.99	10	0.39
BA2NN5C*		3/4"	1/2"	85	3.34	170	6.69	91	3.58	14	0.55
BA2NN5C*		1"	3/4"	110	4.33	170	6.69	96	3.86	19	0.75
BA2NN5C*		1 1/4"	1"	120	4.75	230	9.05	119	4.68	25	0.98
BA2NN5C*		1 1/2"	1 1/4"	140	5.51	230	9.05	124	4.88	32.5	1.29
BA2NN5C*		2"	1 1/2"	160	6.3	310	12.2	147	5.79	38	1.5
BA2NN5C*		-	2"	200	7.87	400	15.75	168	6.61	51	2

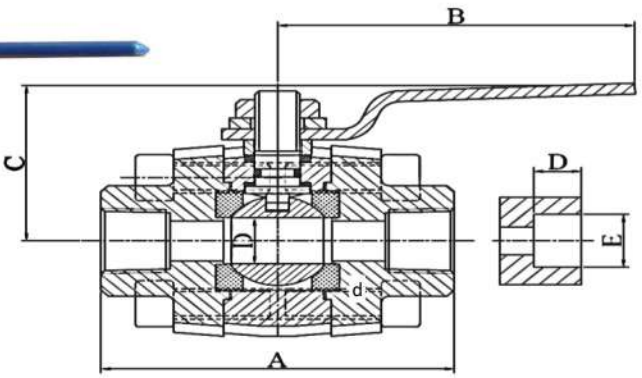
	6		10		15		20		25		32		40		50	
	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2		2	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
SOCKET WELD DIMENSION	11	0.44	11	0.44	12.7	0.5	14.5	0.57	16	0.63	75.5	0.69	19	0.75	22	0.86
	14.2	0.555	17.6	0.69	21.8	0.855	27.02	1.067	33.9	1.33	42.7	1.675	48.8	1.915	61.2	2.4

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

Pars Regulator Co.

PIPING THREE PIECES FORGED BALL VALVE





Features and Applications

- Socket Welding & threaded ends
- Socket welding dimension :ANSI B 16.11
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : ANSI B 16.34
- Inspect and test: API 598
- Body material: A105,F304L,F316L
- For service at temperatures -29 °C and lower, materials shall be specified by the purchaser.

Part Number	CLASS	Size		Dimension							
				End to End		Lever		Center to Top		Ball Bore	
Pars Regulator		Reducer Bore	Full Bore	A		B		C		D	
				mm	in	mm	in	mm	in	mm	in
BA3NN8C*	800	-	1/4"	75	2.95	155	6.1	74	2.83	10	0.39
BA3NN8C*		1/2"	3/8"	75	2.95	155	6.1	74	2.83	10	0.39
BA3NN8C*		3/4"	1/2"	75	2.95	155	6.1	76	2.99	14	0.55
BA3NN8C*		1"	3/4"	87	3.42	155	6.1	98	3.86	19	0.75
BA3NN8C*		1 1/4"	1"	110	4.33	170	6.69	100	3.94	25	0.98
BA3NN8C*		1 1/2"	1 1/4"	120	4.72	230	9.05	120	4.72	32.5	1.29
BA3NN8C*		2"	1 1/2"	140	5.51	230	9.05	130	5.12	38	1.5
BA3NN8C*		-	2"	160	6.29	310	12.2	150	5.9	51	2

Part Number	CLASS	Size		Dimension							
				End to End		Lever		Center to Top		Ball Bore	
Pars Regulator		Reducer Bore	Full Bore	A		B		C		D	
				mm	in	mm	in	mm	in	mm	in
BA3NN5C*	1500	-	1/4"	75	2.95	155	6.1	76	2.99	10	0.39
BA3NN5C*		1/2"	3/8"	75	2.95	155	6.1	76	2.99	10	0.39
BA3NN5C*		3/4"	1/2"	87	3.42	170	6.69	91	3.58	14	0.55
BA3NN5C*		1"	3/4"	110	4.33	170	6.69	96	3.86	19	0.75
BA3NN5C*		1 1/4"	1"	120	4.75	230	9.05	119	4.68	25	0.98
BA3NN5C*		1 1/2"	1 1/4"	140	5.51	230	9.05	124	4.88	32.5	1.29
BA3NN5C*		2"	1 1/2"	160	6.3	310	12.2	147	5.79	38	1.5
BA3NN5C*		-	2"	200	7.87	400	15.75	168	6.61	51	2

	6		10		15		20		25		32		40		50	
	1/4		3/8		1/2		3/4		1		1-1/4		1-1/2		2	
SOCKET WELD DIMENSION	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
	11	0.44	11	0.44	12.7	0.5	14.5	0.57	16	0.63	75.5	0.69	19	0.75	22	0.86
	14.2	0.555	17.6	0.69	21.8	0.855	27.02	1.067	33.9	1.33	42.7	1.675	48.8	1.915	61.2	2.4

*Please for Insert the other Part Number(Material, Seat Material, etc.) see page 1

STEAM TRAPS
Thermodynamics

PR PRODUCT Memos

1. The Thermo-Dynamic® disc trap is one of the most popular steam traps on the market today. The cost effective, compact design makes the TD ideal for drainage of steam mains, steam tracing lines and small process equipment where size, as well as efficient operation are important.

2. Discharge from the TD is close to steam temperature; therefore, the steam space is kept free from condensate. The tight shut-off the TD provides prevents valuable steam from being wasted. These factors combine to optimize the steam system efficiency.

Pars Regulator Co.

Thermodynamic Steam Traps

Series 711/721 Disc Trap -UniBody (Thermodynnamdic)

The Series 711/721 Unibody Plus disc trap is designed for light load applications such as steam tracing, steam line drip, and turbine drain. These traps are fully renewable in-line, energy efficient and easy to check.

The 711 is a simple straightway body.

The 721 is a straightway body and has an integral wye strainer and blowoff valve.

Both bodies accept the same renewal capsules without removing the bodies from the line. The standard capsule performs best when applied in service up to 450 psig. The HP capsule has been designed for 150-650 psig service to handle

Ratings

Design: 600 psig, 750°F

Operating: 4 to 450 psig/750°F [0.3 to 31 bar/400°C]

711HP/721HP only

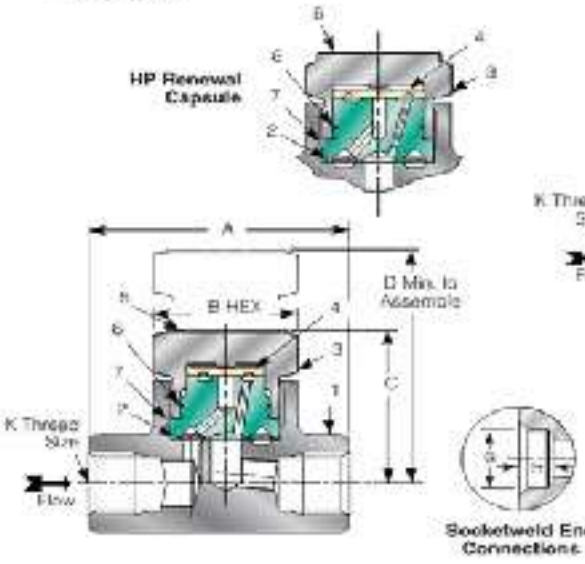
Design: 650 psig, 750°F

Operating: 150 to 650 psig/750°F [10.3 to 45 Bar/400°C]

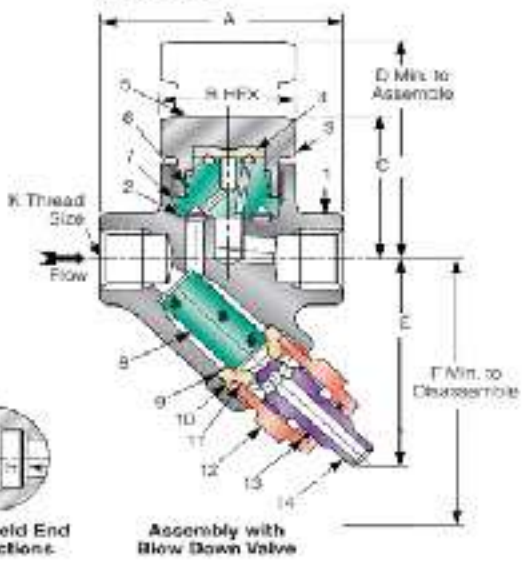
Applicable Codes and Standards

End connections per ANSI B1.20.1 for threaded ends, per

Series 711



Series 721



Series 711/721 Disc Trap -UniBody

item	Part	Material
1[1]	Body	Carbon Steel A105
2[2]	Seat Gasket	Stainless Steel
3[2]	Bonnet	ASTM A-582 Type 416/ASTM A276 TYPE410 or 420/ ASTM A276 TYPE 403 OR EQU.
4[2]	Disc	Stainless Steel HT
5[2]	Name Plate	Stainless Steel
6[2]	Retaining ring	ASTM A313 TYPE 302 OR EQU.
7[2]	Seat	Stainless Steel HT
8	Screen	Stainless Steel 304\304L
9[3]	Cap Gasket	ASTM A276 TYPE 316L/304L With Silver Coated
10[3]	Blowdown Seat	ASTM A-582 Type 416/ASTM A276 TYPE410 or 420/ ASTM A276 TYPE 403 OR EQU.
11[3]	Retaining ring	ASTM A313 TYPE 302 OR EQU.
12[3]	Blowdown Body	ASTM A-582 Type 416/ASTM A276 TYPE410 or 420/ ASTM A276 TYPE 403 OR EQU.
13[3]	O-Ring	Silicon
14[3]	Blowdown Valve	ASTM A-582 Type 416/ASTM A276 TYPE410 or 420/ ASTM A276 TYPE 403 OR EQU.
15[4]	Strainer Cap	ASTM A-582 Type 416/ASTM A276 TYPE410 or 420/ ASTM A276 TYPE 403 OR EQU.
16[4]	Plug 3/8 NPT	Carbon Steel A105
17[4]	Blank Strainer Cap	Stainless Steel

1.Optional Weather Cap for Outdoor use
2.Part of factory assembled renewal capsule
3.Factory assembled blowdown valve renewal kit
4.Optional Strainer Caps

Unit Dimensions * : mm

Trap Size inch	A	B	C	D	E	F	G	H	K
3/8	80	38	49	68	73	100	17.6	9.5	NPT
1/2	80	38	49	68	73	100	21.8	9.5	NPT
3/4	81	38	49	68	73	100	27.2	12.7	NPT
1	100	38	49	68	86	113	33.9	12.7	NPT

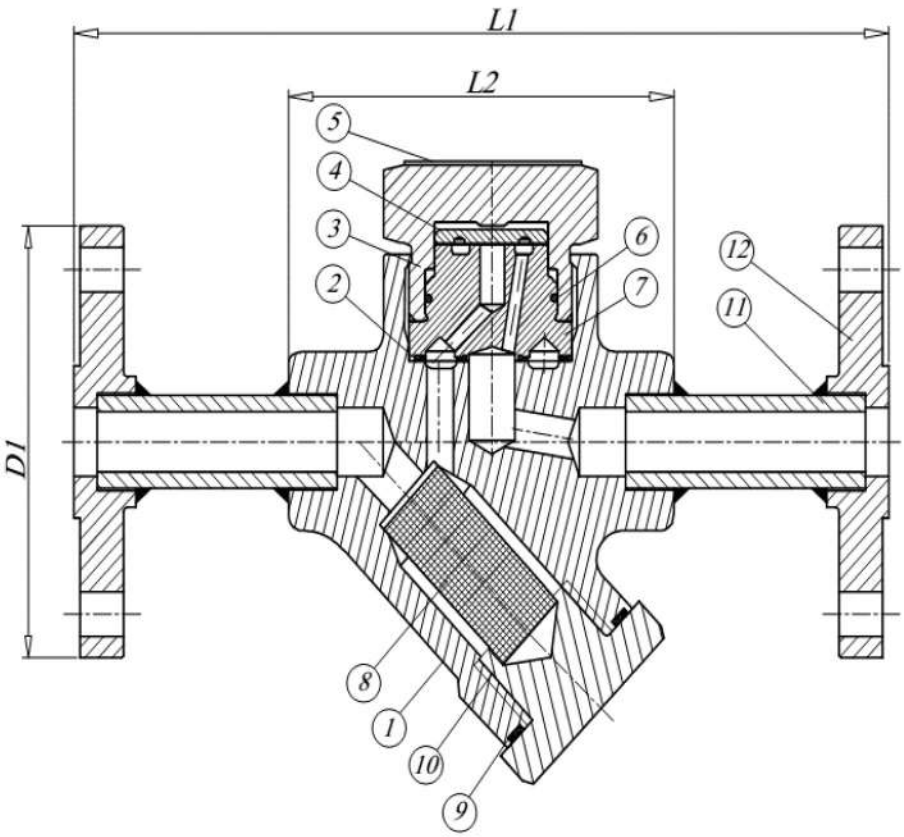
* All dimensions could be considered as refrence

Series 129Y Impulse Trap -UniBody

The series 129Y disc traps are designed for light loads such as steam tracing and steam line drip. The 129Y trap may also be used for small process applications

Applicable Codes and Standards
End connections per ANSI B1.20.1 for threaded ends, per ANSI

Operating:
3/8", 1/2", 3/4" 129Y 400 psi, 750°F



Series 129Y Impulse Trap -UniBody

item	Part	Material
1	Body	Carbon Steel A105
2	Seat Gasket	Stainless Steel
3	Bonnet	ASTM A-582 Type 416/ASTM A276 TYPE410 or 420/ ASTM A276 TYPE 403 OR EQU.
4	Disk	Stainless Steel HT
5	Name Plate	Stainless Steel
6	Retaining Ring	ASTM A313 TYPE 302 OR EQU.
7	Seat	Stainless Steel
8	Screen	Stainless Steel 304/304L
9	Cap Gasket	ASTM A276 TYPE 316L/304L With Silver Coated
10	Screen Cap	Carbon Steel A105
11	Pipe	ASTM A106 Grade B
12	Flange	Carbon Steel A105

Unit Dimensions * : mm

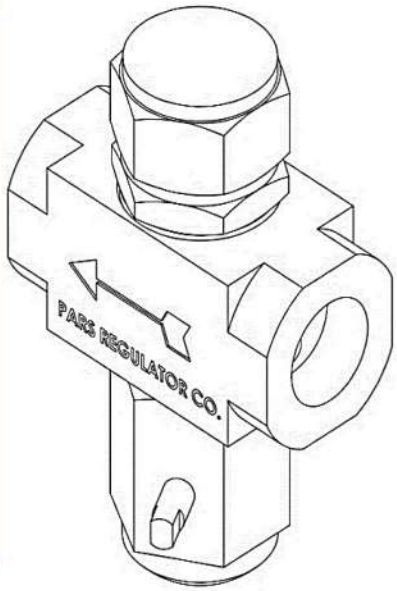
Trap Size inch	L1	L2	D1*
1/2	210	80	89
3/4	220	81	99

*D1: FLANGE #150

* All dimensions could be considered as refrence

Series 121/131 Disc Trap Thermodynnamdic (Tilting Disc Impulse)

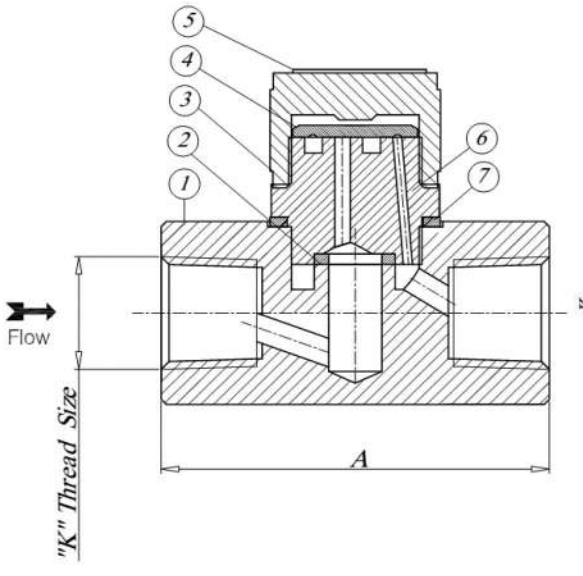
The Series 121/131 Tilting Disc Impulse disc trap is designed for light load applications such as steam tracing, steam line drip, and turbine drain. These traps are fully renewable in-line, energy efficient and easy to check.
The 121 is a simple straightway body.
The 131 is a straightway body and blowoff valve.
Both bodies accept the same renewal capsules without removing the bodies from the line. The standard capsule performs best when applied in service up to 450 psig. The HP capsule has been designed for 150-650 psig service to



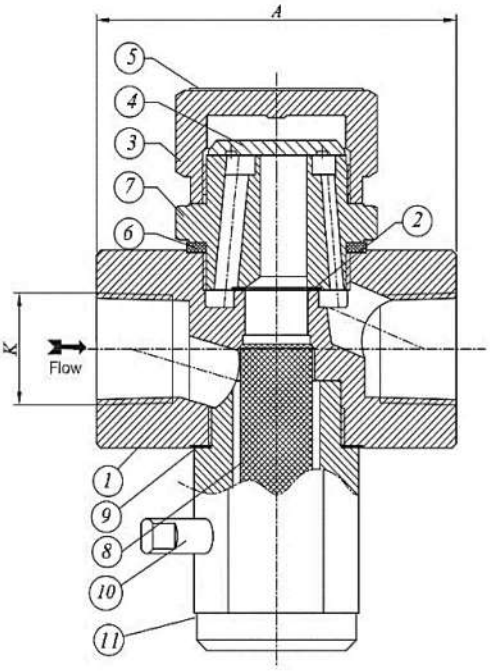
Ratings
Design: 600 psig, 750°F
Operating: 4 to 450 psig/750°F
[0.3 to 31 bar/400°C]
130 HP only
Design: 650 psig, 750°F
Operating: 150 to 650 psig/750°F
[10.3 to 45 Bar/400°C]

Applicable Codes and Standards
End connections per ANSI B1.20.1 for threaded ends, per ANSI B16.11 for socket-welding ends

SERIES 121



SERIES 131



Steam Trap

Series 121/131 Disc Trap Thermodynamic (Tilting Disc Impulse)

item	121		131	
	Part	Material	Part	Material
1	Body	Carbon Steel A105	Body	Carbon Steel A105
2	Seat Gasket	Stainless Steel	Seat Gasket	Stainless Steel
3	Bonnet	**	Bonnet	**
4	Disc	Stainless Steel HT	Disc	Stainless Steel HT
5	Name Plate	Stainless Steel	Name Plate	Stainless Steel
6	Seat	Stainless Steel HT	Gasket	Stainless Steel
7	Screen	Stainless Steel 304/304L	Seat	Stainless Steel HT
8	Cap Gasket	ASTM A276 TYPE 316L/304L With Silver Coated	Screen	Stainless Steel 304/304L
9	Blowdown Body	**	Cap Gasket	ASTM A276 TYPE 316L With Silver Coated
10	Blowdown Seat	**	Blowdown Valve	**
11	/	/	Blowdown Body	**
12	/	/	**	**
13	/	/	**	**

**ASTM A-582 Type 416/ASTM A276 TYPE410 or 420/ ASTM A276 TYPE 403 OR EQU.

SERIES 121

Unit Dimensions * : mm

Trap Size inch	A	K
1/2	65	1/2" NPT
3/4	85	3/4" NPT

SERIES 131

Unit Dimensions * : mm

Trap Size	A	K
3/8	80	3/8" NPT
1/2	80	1/2" NPT
3/4	81	3/4" NPT
1	100	1" NPT

* All dimensions could be considered as reference

INDUSTRIAL STRAINER

Basket, Conical, Tee and Y Type

PR PRODUCT Memos

1. T-Strainers are compact and used in applications where space is restricted. The standard T-strainer includes a screen suitable for high pressures, which is easy to maintain and replace and capable of filtration of more than 200% of the inlet area. Tee Type Strainers are a low cost solution to large nominal bore straining requirements. This strainer can be easily installed and requires minimal maintenance. T Type Strainer can be used in both vertical and horizontal installations.

2. Y Strainers are designed to protect piping system components such as pumps, meters, control valves, steam traps, regulators etc. from damage caused by dirt or debris in flowing liquids or gases. Y Strainers may be installed in either a vertical or horizontal position, however it is important to ensure the screening element is located on the "down-side" of the strainer body so the entrapped material can properly collect in it.

Pars Regulator Co.

Strainers Types

TYPES OF STRAINERS
✓Conical strainers
✓T-type strainers
✓Bucket Filter type strainers
✓Permanent Strainers
✓Y-type strainers
✓Duplex strainers
✓Bucket strainers
✓Cartridge strainers
✓Self-cleaning strainers
✓TEMPORARY STRAINERS

Y Type Strainers

Y Strainers are designed to protect piping system components such as pumps, meters, control valves, steam traps, regulators etc. from damage caused by dirt or debris in flowing liquids or gases. These particles are removed by means of a perforated or wire mesh straining component. This mesh is generally available in either a fine or coarse grade, depending on the size of the particles to be filtered.

The Y Strainer has a removable cap, allowing the wire mesh to be removed, cleaned out and then re-installed into the body. Y Strainers are mostly installed into lines where frequent clean out of the line is not required. In lines where there is heavy sediment it is advisable to install a basket strainer.

Y Strainers may be installed in either a vertical or horizontal position, however it is important to ensure the screening element is located on the "down-side" of the strainer body so the entrapped material can properly collect in it.

They are most commonly used in pressurized lines, gas or liquid, but can also be used in suction or vacuum conditions. Y-Strainer has the advantage of being able to be installed in either a horizontal or vertical position. However, in both cases, the screening element or "leg" must be on the "down-side" of the strainer body so that entrapped solids can be properly collected and held for disposal.

T Type Strainers

T-strainers are compact and used in applications where space is restricted. The standard T-strainer includes a screen suitable for high velocities, which is easy to maintain and replace and capable of flow area of more than 200% of the inlet area. The elements are made of stainless steel perforated sheet or wire mesh supported by perforated sheet. Tee Type Strainers are a low cost solution to large nominal bore straining requirements. This strainer can be easily installed and requires minimal maintenance. Tee strainers are provided with bolted cover or quick opening covers for ease of maintainability. T Type Strainer can be used in both vertical and horizontal installations.

Conical Strainers

Conical Strainers are used in steam, water, oil or gas service, and are installed between two flanges for protection of downstream equipment. They are used either temporarily, or where costs of a line are important. The line must be disassembled to replace, clean, or remove these strainers. A conical strainer is installed with the tip of the cone facing the direction of flow. Conical strainers are designed to collect debris around the outer edges of the cone because this is a mechanically stronger orientation.

Basket Type Strainers

Strainers are specifically excluded from the requirements of ASME Section VIII, Division 1, under paragraph U-1. Nevertheless, due to the similarity of pressure boundary items, today's quality manufacturers use the ASME design for guidelines. In fact, most of the strainers can be fabricated can be "U" stamped pressure vessels.

Industrial Strainer Selection Considerations:

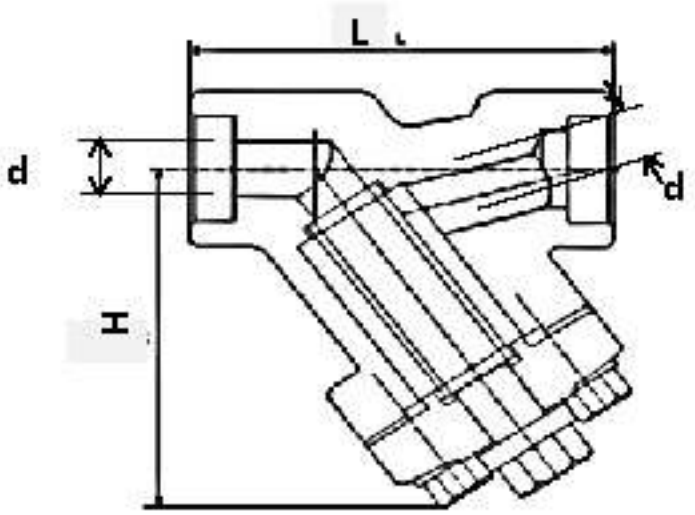
✓Pressure Drop and Velocity ✓Maximum Allowable Working Pressure ✓Perforation, Slot or Mesh Size ✓Open Area Ratio ✓Viscosity ✓Dirt Loading ✓Flow Rate ✓Particle Size ✓Service Temperature ✓Life Cycle Cost ✓Limited Down time ✓Material Selection

Basket Selection:

✓Perforated Plate ✓Wire Cloth ✓Wedgewire (Wall Screen)

S.W (NPT) Y Strainer

CL 800



Features and Applications

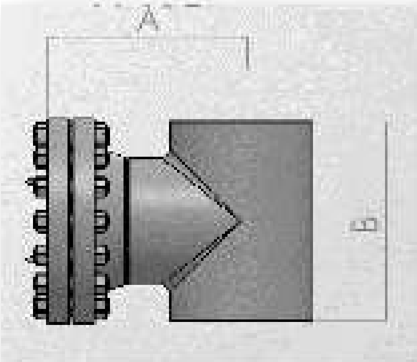
- Construction :B.C Y Type
- Gasket:Stainless steel + graphite
- Socket Welding & threaded ends
- Socket welding dimension :ANSI B 16.11
- Screw end dimension: ANSI B 1.20.1(NPT)
- Design & manufacture : API 602, ANSI B 16.34
- Inspect and test: API 598
- Body material: A105,LF2,F5,F11,F22,F304L,F316L
- All dimensions could be considered as reference.

Dimensions

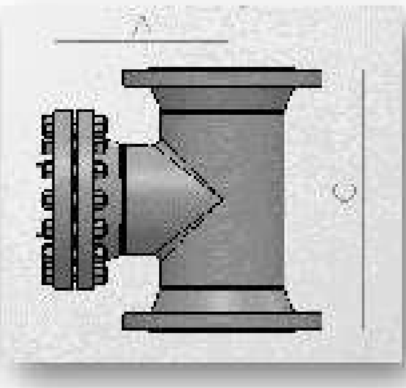
Norminal diameter	mm(in)	15(1/2)	20(3/4)	25(1)	32(11/4)	40(11/2)	50(2)
d	mm	11	13	18	23	28	33
L	mm	98	98	120	140	140	170
H	mm	86	86	105	118	120	145
Weight	Kg	2.7	2.5	6.3	8.2	9.2	10.3

Pars Regulator Co.

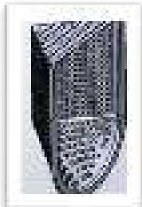
Tee Type Strainer

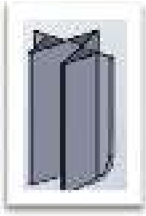


BW



RF-RTJ





Dimensions And Weights

SIZE	Class 150 lb					Class 300 lb				Class 600 lb				Class 900 lb				Class 1500 lb			
	B	A	C	Kg BW	Kg RF	A	C	Kg BW	Kg RF	A	C	Kg BW	Kg RF	A	C	Kg BW	Kg RTJ	A	C	Kg BW	Kg RTJ
2"	127	84	229	9	15	159	267	13	26	177	286	15	25	221	346	31	43	221	346	31	43
3"	172	102	312	16	26	197	311	21	37	215	356	24	41	246	391	36	66	269	422	51	78
4"	216	267	368	24	38	225	382	38	62	259	426	52	88	284	456	66	108	306	473	87	117
6"	286	286	489	43	66	286	483	71	111	323	534	106	172	359	581	126	226	416	648	261	272
8"	356	316	588	71	167	333	578	169	171	382	616	158	276	424	686	211	381	565	864	342	467
10"	412	351	665	111	161	384	667	181	269	448	756	269	451	492	816	336	565	665	961	568	772
12"	566	483	737	161	219	438	764	256	384	492	832	346	556	566	924	456	756	646	1162	854	1157
14"	566	445	818	222	324	486	846	354	516	516	963	438	692	683	1008	583	986	746	1187	1188	1615
16"	616	472	884	273	393	511	882	449	675	575	979	589	945	615	1066	786	1148	756	1264	1590	2163
18"	686	526	966	332	474	565	1084	553	821	626	1067	744	1176	786	1169	946	1246	886	1375	2086	2836
20"	762	572	1051	422	598	669	1086	688	1038	676	1156	928	1464	784	1283	1171	1586	948	1568	2089	3624
24"	864	615	1169	666	838	673	1261	982	1458	753	1283	1311	2671	886	1486	2046	3466	1086	1718	4324	5776

- Dimensions and weights are approximate.
- Standard blow off plug Vt" 3/4" NPT
- Flanged ends to ANSI B16.5
- BW ends to ANSI B 16.25.

CERTIFICATIONS

& Acknowledgements

1 CERTIFICATES OF PR COMPANY

- ISO 9001:2008 Quality Assurance System
- HSE-MS Health, Safty and Enviromental Management System

2 CERTIFICATES OF THE PRODUCT

- CE Quality Assurance System
- API 607 Fire Safe For Ball Valve
- ASTM-F1387 TYPE APPROVAL
- INSPECTION for NEEDLE VALVE(SGS)

3 MAJOR AVL:

- NIOC (National Iranian Oil Company)
- NIGC (National Iranian Gas Company)
- NPC (National Petrochemical Company)
- POGC (Pars Oil & Gas Company)
- NISOC (National Iranian South Oil Company)
- SPGC (Iran's South Pars Gas Complex)
- NIOEC (National Iranian Oil Engineering & Construction Co.)
- ICOFC (Iranian Central Oil Fields Company)
- IOOC (National Iranian Offshore Oil Company)
- OIEC (Oil Industries Engineering and Construction)

Others....


CERTIFICATE

This is to Certify That

Pars Regulator Co.

No. 46, Karimkhan Zand, Tehran - IRAN

Has been Assessed and Found Compliant With the Requirements of:

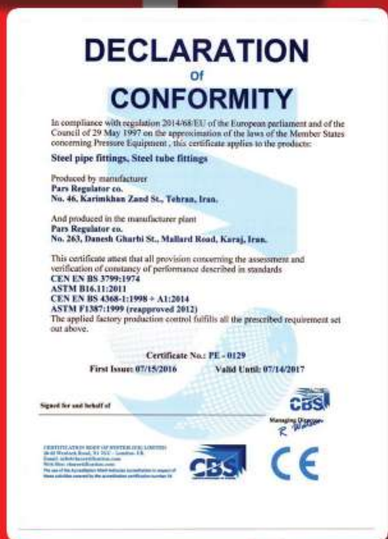
International Standard of Quality Management System

ISO 9001:2008

Registration Scope of Activities:

Production and Supply of Steel Fittings, Valves and Filters

Certificate Number: 1081502


DECLARATION of CONFORMITY

In compliance with regulation 2014/68/EU of the European parliament and of the Council of 29 May 1997 on the approximation of the laws of the Member States concerning Pressure Equipment , this certificate applies to the products:

Steel pipe fittings, Steel tube fittings

Produced by manufacturer
Pars Regulator co.
No. 46, Karimkhan Zand St., Tehran, Iran.

And produced in the manufacturer plant
Pars Regulator co.
No. 263, Danesh Gharbi St., Mallard Road, Karaj, Iran.

This certificate attest that all provision concerning the assessment and verification of constancy of performance described in standards
CEN EN BS 3799:1974
ASTM B16.11:2011
CEN EN BS 4368-1:1998 + A1:2014
ASTM F1387:1999 (reapproved 2012)
The applied factory production control fulfills all the prescribed requirement set out above.

Certificate No.: PE - 0129

First Issue: 07/15/2016 Valid Until: 07/14/2017

Signed for and behalf of


CERTIFICATE

This is to Certify That

Pars Regulator Co.

No. 46, Karimkhan Zand, Tehran - IRAN

Has been Assessed and Found Compliant With the Requirements of:

International Standard of Health, Safety and Environmental Management System

HSE-MS

Registration Scope of Activities:

Production and Supply of Steel Fittings, Valves and Filters

Certificate Number: 1160801


نکات مهم در اجرای حمایتهای قانون:


Certificate of Registration

MOODY INTERNATIONAL

Certificate Number

16/086618

This is to certify that the under mentioned part/s have been tested with satisfactory results in accordance with the relevant requirement of the MI type Approval System.

This certificate is issued to:

Producer	: Pars Regulator Co.
Place of Production	: No.263, Daneshe Gharbi St, Sar Asiab, Malard, Tehran- Iran
Location of Inspection	: No.263, Daneshe Gharbi St, Sar Asiab, Malard, Tehran- Iran
Type	: 1" 3000 Psi Class Equal 1500-Ball Valve Floating – Full Bore
Valve Serial Number	: 0453
Date of Inspection	: 11th August 2016
Specified Standard	: Fire test based on Req. API 607
Application	: Onshore / Offshore & Industrial Applications
Condition	: No any specific condition


SGS

INSPECTION CERTIFICATE

شرکت نفت و گاز پارس
«سهامی خاص»

شرکت ملی نفت ایران
"بسمه تعالی"

تاریخ: ۹۶/۱۱/۱۴
شماره: ۱۱۱۵۸۸
پیوست:

مدیرعامل محترم شرکت پارس رگولاتور

موضوع: تائیدیه ورود به فهرست سازندگان مجاز شرکت نفت و گاز پارس

باسلام،

بازگشت به نامه شماره ۹۶/۲۹/۴۹۷۳ مورخ ۹۶/۶/۱۱ و مدارک ارائه شده به اطلاع می‌رساند استفاده از محصولات تولیدی آن کارخانه شامل Needle valve تا سایز یک اینچ و کلاس ۳۰۰۰psi و ۶۰۰۰psi، Tube Fitting تا سایز یک اینچ و کلاس ۳۰۰۰psi و ۶۰۰۰psi و Manifold تا سایز ۱/۲ اینچ و کلاس ۳۰۰۰psi و ۶۰۰۰psi مطابق با مشخصات فنی پروژه ها و تائید بازرسی شخص ثالث (TPA) و با نظارت کارفرما و پیمانکار در حین ساخت و منوط به تامین کلیه اقلام مورد نیاز از فهرست سازندگان مورد تائید شرکت نفت و گاز پارس به مدت ۸ ماه مورد تائید می‌باشد.

بدیهی است تمدید مدت مذکور منوط به درخواست آن شرکت، ارزیابی مجدد و انجام اصلاحات ذکر شده در پیوست خواهد بود.

با تشکر
غلامرضا جنت آبادی
رییس ارزیابی و توسعه نظام پیمانکاران و سازندگان

www.nipc.ir

شرکت نفت و گاز پارس
«سهامی خاص»

شرکت ملی نفت ایران

تاریخ: ۹۶/۰۶/۱۹
شماره: ۵۷۷۹۷
پیوست:

"بسمه تعالی"

به: مجریان محترم طرح های توسعه پارس جنوبی
از: رییس ارزیابی و توسعه نظام پیمانکاران و سازندگان

موضوع: شرکت پارس رگولاتور

باسلام و احترام

پیرو بررسی مدارک ارسالی و بازدید بعمل آمده و در راستای حمایت از سازندگان داخلی، شرکت مذکور به منظور تولید شیرآلات مشروحه ذیل، برای سرویس شیرین و به شرط رعایت الزامات قراردادی، استانداردهای مرجع و تولید مطابق با مشخصات فنی پروژه‌ها به مدت یکسال مورد تایید قرار گرفته است:

- Gate Valve از سایز ۱/۸ تا ۲ اینچ و کلاس ۱۵۰ تا ۹۰۰
- Globe Valve از سایز ۱/۸ تا ۲ اینچ و کلاس ۱۵۰ تا ۹۰۰
- شیر توپی (Ball Valve) از سایز ۱/۸ تا ۲ اینچ و کلاس ۱۵۰ تا ۶۰۰ و به شرط تامین Ball از سازندگان معتبر و مورد تایید شرکت نفت و گاز پارس.

PARS REGULATOR
IN CLIENTS AVL
AVL (APPROVED VENDOR LIST)

بسمه تعالی
شرکت نفت مناطق مرکزی ایران
(سهامی خاص)

شرکت ملی نفت ایران

شماره ۶۶۲۹۶
تاریخ ۱۳۹۶/۰۸/۲
پیوست

«اقتصاد مقاومتی، اقدام و عمل»

مدیر عامل محترم شرکت پارس رگولاتور

موضوع: تاییدیه ثبت شرکت در فهرست منابع شرکت نفت مناطق مرکزی ایران

با سلام

احتراماً، عطف به نامه شماره ۹۶/۲۹/۴۴۶۱ مورخه ۹۵/۵/۲۸ به اطلاع میرساند نام شرکت **پارس رگولاتور** جهت موارد ذیل درفهرست منابع مورد تایید شرکت نفت مناطق مرکزی به ثبت رسیده است این گواهی صرفاً به درخواست آن شرکت محترم صادر گردیده وارزش دیگری ندارد.

مضافاً اینکه قرارگرفتن نام آن شرکت در وندور لیست لزوماً هیچگونه تعهدی جهت خرید ایجاد نمی نماید.

این گواهی از تاریخ صدور بمدت دوسال اعتبار دارد.

لازم بذکر است محصولات تایید شده در سامانه جامع وزارت نفت نیز ثبت می باشند.

- شیرهای منیفیلد یک راهه -دو راهه -سه راهه -پنج راهه تا کلاس ۱۰۰۰۰*PSI*
- انواع فیلتر واستریتر
- فلنج تا ۶ اینچ کلاس ۸۰۰*PSI*
- ولوهای *GATE-BALL-GLOBE* تا ۲ اینچ کلاس*PSI* ۱۵۰۰
- فیتینگ وپایپ فیتینگ تا ۲ اینچ

بابک پناهی
رفیس واحد شناسایی و بررسی منابع

www.icofc.ir

تهران ، خیابان حافظ ، خیابان رودسر غربی پلاک ۳۰- نمابر:۸۸۹۳۶۲۰۷ و ۸۸۹۳۶۲۰۶
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NSCERT
ISO 9001, ISO 14001, OHSAS 18001 & ISO/TS 29001

شرکت مهندسی وساختمان صنایع نفت
OIEC
...building trust

بسمه تعالی

تاریخ : ۱۳۹۵/۰۶/۲۳
شماره : ۵۲/۲/۱۵۵۷
پیوست : ندارد

www.oiecgroup.com

جناب آقای حسن روحانی
مدیر محترم عامل
شرکت پارس رگولاتور

موضوع: اعلام نتیجه بازدید و ارزیابی شرکت "پارس رگولاتور"

باسلام،

احتراماً، ضمن تشکر از همکاری آن شرکت محترم در انجام فرآیند ارزیابی شرکتهای سازنده ایرانی، بدین وسیله به اطلاع می رساند با بررسی اطلاعات و مدارک ارسالی در قالب شناسنامه و پیرو بازدید صورت گرفته، در زمینه تولید اقلام ذیل:

1- **Pressure Tube Fitting**
2- **Pressure Pipe Fitting**
3- **Needle Valve – Block & Bleed Valve – Manifold**
4- **Ball, Gate, Globe Valve (small size)**
5- **Steam Trap**
6- **Filter (انواع مختلف)**

بر اساس شاخص های ارزیابی مورد نظر، **امتیاز ۷۶/۷** از ۱۰۰ و **رتبه B** توسط آن شرکت محترم کسب گردیده است.

نتایج حاصله در پرونده شرکت پارس رگولاتور با **کد ۸۶۵۸** در سیستم بررسی منابع (Sourcing) شرکت مهندسی و ساختمان صنایع نفت (OIEC) ثبت و در زمان مقتضی و با در نظر گرفتن شرایط و الزامات هر پروژه، از آن شرکت محترم برای حضور در مناقصات آتی دعوت به عمل خواهد آمد.

اعتبار این نامه از تاریخ صدور به مدت ۲ سال بوده و رتبه اخذ شده توسط آن شرکت هیچگونه تعهدی جهت خرید ایجاد نمی نماید.

فتاح بیاتانی
مدیر بازرگانی

info@oiecgroup.com
www.oiecgroup.com

ردیف	عنوان شرکت	شناسه ملی	کد اقتصادی	نوع فعالیت	داخلی/خارجی	ملیت	شرح محصولات	گروه کالایی	استان	شهر	آدرس	تلفن	فکس	تلفن همراه	وبسایت	ایمیل	تاریخ درج/ بروزرسانی	توضیحات	وضعیت خوداظهاری
۲۱۰۸	دلتاالکتریک	۱۰۷۰۰۰۲۸۷۴		سازنده Manufacturer	داخلی	ایران	دوات برق منازل ،-۰۷ : پریز برق منازل ، = ، سر پیچ ، - ، کلید برق منازل ، -	-۷۰		تهران	تهران خ ابرانشهر شرق غربی پ۴۱۲ ط۴	-۵۸۸۷۲۸۸۸	۸۸۸۲۷۹۲۴		-----	-----	۱۳۹۶/۰۹/۲۸		خوداظهاری نشده
۲۱۰۹	پارس رگولاتور	۱۰۱۰۱۱۷۳۹۴۶		سازنده Manufacturer	داخلی	ایران	تجهیزات ایستگاه-۳۳ : فیلتراسیون ذرات جامد ، فیلتر فلزی ، فیلتر سرامیکی ، المنت فیلتر ، مخصوص فیلترگاز خشک ، مخصوص فیلتر هوا ، فیلتر گاز سیدی ، ورودی توربین ، ابزاردقیق -۰۶: رگولاتور گاز مایع، -۳ شیرآلات -۵۷۰ شیرپشقابی فولادی رزوه ای ، نیم تا۲ اینچ کلاس۰۰۸ ، شیرتوپی فولادی رزوه ای ، نیم تایک اینچ ۰۰۶ ، نیم تایک اینچ ۰۰۳ ، ۱/۴ اینچ۲۰تا (Block & Bleed). کلاس ۰۵۱ تا ۰۵۲ ،۱/۴ تا ۲۰ اینچ (Double Block & Bleed). کلاس ۱۵۰تا ۰۰۵۲ ، شیردروازه ای فولادی رزوه ای ، نیم تا۲ اینچ کلاس ۰۰۸ ، شیر سوزن ،ی فولادی ، یک چهارم تا۱ اینچ ، شیر سوزنی فولاد ضدزنگ ، یک چهارم تا۱ اینچ ، شیرتوپی فولادی فلنجی ، ۱/۴ اینچ۲۰تا (Block & Bleed). کلاس ۰۵۱ تا ۰۵۲ ،۱/۴ تا ۲۰ اینچ (Double Block & Bleed). کلاس ۱۵۰تا ۰۰۵۲ ، اتصالات و فلنج -۶۷: اتصالات ابزاردقیق ، یکچهارم تا۱اینچ : ۴۵تا۶میلیمتر(تا فشار psi۰۰۰۳)، اتصالات فولاد ضدزنگ جوشی، دواینچ، اتصالات فولادی رزوه ای فشارقوی، یک چهارم تا دو اینچ کلاس ۰۰۳ ،. فلنج فولادی ، تا شش اینچ تا کلاس ۰۰۶ ، فلنج ع ک (spectacle spade) یک تایی	-۷۵ -۶۰ -۴۳ -۷۶		تهران	تهران- خ کریم خان زند نرسیده به میدان، هفت تیر س۴۶ ط۶-۲-۳۰۶	۸۸۳۴۱۴۰	۸۸۳۰۷۷۶۶		www.parsregulator.com.	info@parsregulator.com	۱۳۹۶/۰۹/۲۸		خوداظهاری شده

NPC

COMPANY NAME	ORIGIN
ECONOSTO	W.EUROPE
FLEXITALIC	UK
FMA	ITALY
JAMES WALKER	UK
TC KLINGER	GERMANY
TECNO TREX	ITALY

1.3.6- STEAM TRAP

EYVAZ TECHNIC	IRAN
KAR AVARANE BOKHAR	IRAN
PARS REGULATOR	IRAN
SANAYE BOKHAR ESFAHAN	IRAN
SANAYE HAFTOME TIR ESFAHAN	IRAN
TALEH BOKHAR	IRAN
ARMSTRONG	UK
BEKO TECHNOLOGIES GMBH	GERMANY
DOUGLAS CHERO	ITALY
(FLOWSERVE CORPORATION)	BELGIUM / FRANCE
ECONOSTO	NETHERLANDS

1.3.9- VALVE

1.3.9.1- MECHANICAL VALVES

ASAL ARA	IRAN
GOROOH FAJR MARKAZI	IRAN
GOROOH SANATI GODAKHTAR	IRAN
GOROOH SAZANDEGAN SANAT ESPADANA (GSSE)	IRAN
MARO SANAT	IRAN
NIKAN PETROTECH	IRAN
PARS PANGAN	IRAN
PARS REGULATOR	IRAN
POUYA SANAT SEPEHR ARMAN	IRAN
RASTA GROUP GHESHM	IRAN
SANAYE GOSTARESH SHIRSAZI	IRAN

MECHANICAL VENDOR LIST/REV.7 / 1396/07/20
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1.3.6- STEAM TRAP

COMPANY NAME	ORIGIN
FLOWSERVE CORPORATION	BELGIUM / FRANCE
GESTRA	GERMANY / FRANCE
JUCKER	ITALY
KAR AVARANE BOKHAR	IRAN
PARS REGULATOR	IRAN
PLENTY	UK
SANAYE BOKHAR ESFAHAN	IRAN
SANAYE HAFTOME TIR ESFAHAN	IRAN
SPIRAX SARCO	FRANCE
T.L.V (Trouble Less Valve)	JAPAN
TALEH BOKHAR	IRAN
YAMANTO KOUKI	JAPAN

1.3.7- STRAINER

AEVAZ TECHNIC	IRAN
ARMSTRONG	UK
BEKO	GERMANY
DAMAVAND FELEZ	IRAN
EBUTECH	THE NETHERLANDS
FARAKARAN TOLID KAHANGAN	IRAN
INTERMETAL2000	UK
JFC	S. KOREA
KARAVARAN BOKHAR	IRAN
NAGHSH JAHAN PALAYEH	IRAN
PARS REGULATOR	IRAN
PLENTY	UK

KAROON SAR — IRAN
LASTIC SAHAND — IRAN
ELAFLEX — FRANCE / BELGIUM
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MINISTRY OF PETROLEUM(MOP) INCLUDED:

NATIONAL IRANIAN OIL COMPANY (NIOC), NATIONAL IRANIAN GAS COMPANY (NIGC),

NATIONAL PETROCHEMICAL COMPANY(NPC) AND NATIONAL IRANIAN OIL REFINING AND DISTRIBUTION COMPANY

ردیف	عنوان شرکت	شناسه ملی	کد اقتصادی	نوع فعالیت	داخلی/ خارجی	ملیت	شرح محصولات	گروه کالایی	استان	شهر	آدرس	تلفن	فکس	تلفن همراه	ایمیل	وبسایت	تاریخ درج/ بروزرسانی	توضیحات	وضعیت خوداظهاری
۸۴۳	نکا نوین	۱۰۱۰۱۹۶۱۴۸۲		سازنده Manufacturer	داخلی	ایران	LV & MV Switchgear Panel(Fix & Withdrawable)	۶۷		تهران	اتوبان صدر، خروجی بلوار کاوه شمال، نرسیده به اندرزگو، کوچه قیطریه، پلاک ۴۵، طبقه ۴	۲۶۶۵۵۶۲۱,۲۶۶۵۵۶۳۰,۲۲۲۰۸۴۵۲,۲۶۴۵۷۶۹۲,۲۶۴۵۷۸۰۶,۲۶۶۵۵۰۵۸	۰۲۱-۸۸۲۰۶۶۰۸		info@nekanovin.ir sales@nekanovin.ir commerce@ekanovin.ir executivenekanovin.ir	www.nekaovin.ir	۱۳۹۶/۰۱/۲۸		خوداظهاری شده
۸۴۴	ماشین سازی اصفهان	۱۰۱۰۱۰۵۵۸۷۹		سازنده Manufacturer	داخلی	ایران	ظروف تحت فشار-مخزن ذخیره با سقف ثابت و شناور	۱۳			تهران میدان آرژانتین خیابان الوند نبش کوچه سی و یکم پلاک ۴۸	۸۸۷۷۸۹۱۲,۱۴	کارخانه۲۲۲۹۱۱۱۰۰۳۳۴		: ایمیل اصلی | info@emmo.ir	www.emm.ir	۱۳۹۶/۰۱/۲۸		خوداظهاری شده
۸۴۵	پارس رگولاتور	۱۰۱۰۱۱۷۳۹۴۶		سازنده Manufacturer	داخلی	ایران	GATE, BALL, GLOBE VALVE UP TO ۲ IN., CL. ۱۵۰۰/ NEEDLE VALVE upto ۱ IN. CL. ۱۰۰۰ /اتصالات و فلنج/	۶۰		تهران	خیابان کریمخان نرسیده به میدان هفت تیر ساختمان ۴۶ طبقه دوم	تلفن دفتر | : مرکزی ۰۲۱۸۸۳۰۷۷۶ تلفن | ۶ : کارخانه ۰۲۱۶۵۱۶۲۰۲ :فکس | ۵ ۲۱۸۸۸۸۳۴۱۴۰	۰۲۱-۸۸۸۳۴۱۴۰		: ایمیل اصلی | info@parsregulator.com	: وب سایت | parsregulator.com	۱۳۹۶/۰۱/۲۸		خوداظهاری شده
۸۴۹	شهران شیمی	۱۰۱۰۱۵۹۱۷۳۴		سازنده Manufacturer	داخلی	ایران	انواع فرآورده های شیمیایی-پاک کننده ها و شوینده های صنعتی	۸۶ , ۸۹		آبعلی	: مهرداد - پ ۱۱ - ط ۴ | نشانی کارخا... اشتهارد - شهرک صنعتی اشتهارد - بلوا... اوریحان - غزالی غربی - بعد از بلوار علا... جعفری - گلرخ دوم - گلشید یکم - قطع... کد پستی : ۱۵۷۶۸۵۶۴۱۱ | ۱۵۱۷								خوداظهاری شده

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ISLAMIC REPUBLIC OF IRAN
MINISTRY OF PETROLEUM (MOP)

بسمه تعالی

تاریخ صدور: ۱۳۹۶/۰۱/۲۶

شماره: ۶۰۲۷

گواهی صلاحیت شرکتهای تولید کننده

مدیریت محترم شرکت پارس رگولاتور شناسه ملی: ۱۰۱۰۲۵۵۵۷۸۳

براساس این گواهی فعالیت تولیدی آن شرکت به مدت یکسال به شرح زیر تشخیص صلاحیت گردید.

۱- شیرتوپی فولادی فلنجی ,(Double Block & Bleed): (Block & Bleed) از سایز یک چهارم تا دو اینچ کلاس ۱۵۰ تا ۲۵۰۰ .
۲- شیرسوزنی فولادی و ضد زنگ (از سایز یک چهارم تا یک اینچ).
۳- شیردروازه ای فولادی رزوه ای: از سایز نیم تا دو اینچ کلاس ۸۰۰ .
۴- شیرتوپی فولادی رزوه ای : از سایز نیم تا یک اینچ کلاس ۳۰۰۰، ۶۰۰۰ .
۵- شیرشقابی فولادی رزوه ای : از سایز نیم تا دو اینچ کلاس ۸۰۰ .
۶- اتصالات ابزار دقیق: از سایز یک چهارم تا یک اینچ.
۷- اتصالات فولادی ضد زنگ جوشی تا سایز دو اینچ.
۸- فیلتراسیون ذرات جامد (فلزی، سرامیکی).
۹- شیرتوپی فولادی رزوه ای ,(Double Block & Bleed): (Block&Bleed) از سایز یک چهارم تا دو اینچ کلاس ۱۵۰ تا ۲۵۰۰ .
۱۰- اتصالات چدنی مالیبل (از سایز یک تا دو اینچ).
۱۱- اتصالات فولادی رزوه ای فشار قوی (یک چهارم تا دو اینچ تا کلاس ۳۰۰۰).
۱۲- فلنج فولادی (تا سایز شش اینچ تا کلاس ۶۰۰).
۱۳- رگولاتور گاز مایع.
۱۴- فیلتر گاز سبدی (ورودی توربین).
۱۵- المنت فیلتر (مخصوص فیلتر هوا / گاز خشک).
۱۶- فلنج عینکی: از سایز یک تا سی و شش اینچ.

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حمید نجفی

رئیس اداره بررسی منابع، تحقیقات بازرگانی و بیمانکاری

امور تخصصی بازرگانی

ملاحظات:

۱- بازرسی کالا و تطابق مشخصات فنی ارائه شده توسط تولید کننده با استانداردهای شرکت ملی گاز، بر ...
۲- اعتبار و صحت مفاد گواهی، مشروط به مطابقت با اطلاعات منتشره در سامانه تامین الکترونیکی کالای صنعت نفت به آدرس ذیل می باشد.

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امور تخصصی بازرگانی

شرکت ملی نفت ایران
شرکت ملی مناطق نفتخیز جنوب (سهامی خاص)

فهرست سازندگان مجاز (از نظر فنی)

تاریخ : ۱۳۹۵/۱/۳۰

صفحه: ۹۸ از ۱۷۷

اداره مهندسی استانداردها

ردیف	نام شرکت	دامنه تولیدات	PLUG	GLOBE	CHECK	BALL	GATE	NEEDL	BUTTERFLY	استاندارد ساخت و تست	ملاحظات
			نوع/اندازه (اینچ)/حداکثر کلاس شیرآلات								
۱۰	[illegible]	SIZE	1-24"	-	-	-	-	-	-	API6D API600	[illegible]
		CLASS	150-600								
۱۱	[illegible]	SIZE	2-24	-	-	-	-	-	-	API 6D	-
		CLASS	150-600								
۱۲	[illegible]	SIZE	1/2-24	-	-	-	-	-	-	-	-
		CLASS	150-600								
۱۳	[illegible]					1/4-36 up to 10					-
۱۴	[illegible]	SIZE	2 to 12	-	-	1/2 to 36	-	-	2 to 12	-	-
		CLASS	150-600			150-600			150-600		
۱۵	شرکت پارس رگلاتور	SIZE	-	UP TO 2	-	UP TO 2	UP TO 2	UP TO 1	-	-	-
		CLASS		UP TO 1500		UP TO 1500	UP TO 1500	10000 psi			

فقط نسخه الکترونیکی مدرک موجود در شبکه اینترانت شرکت ملی مناطق نفتخیزجنوب به آدرس:
ftp://ftp.nisoc.ir/standards/Vendor List(Technical View)/ معتبر می‌باشد.

کد فرم: FQEC 811/1100

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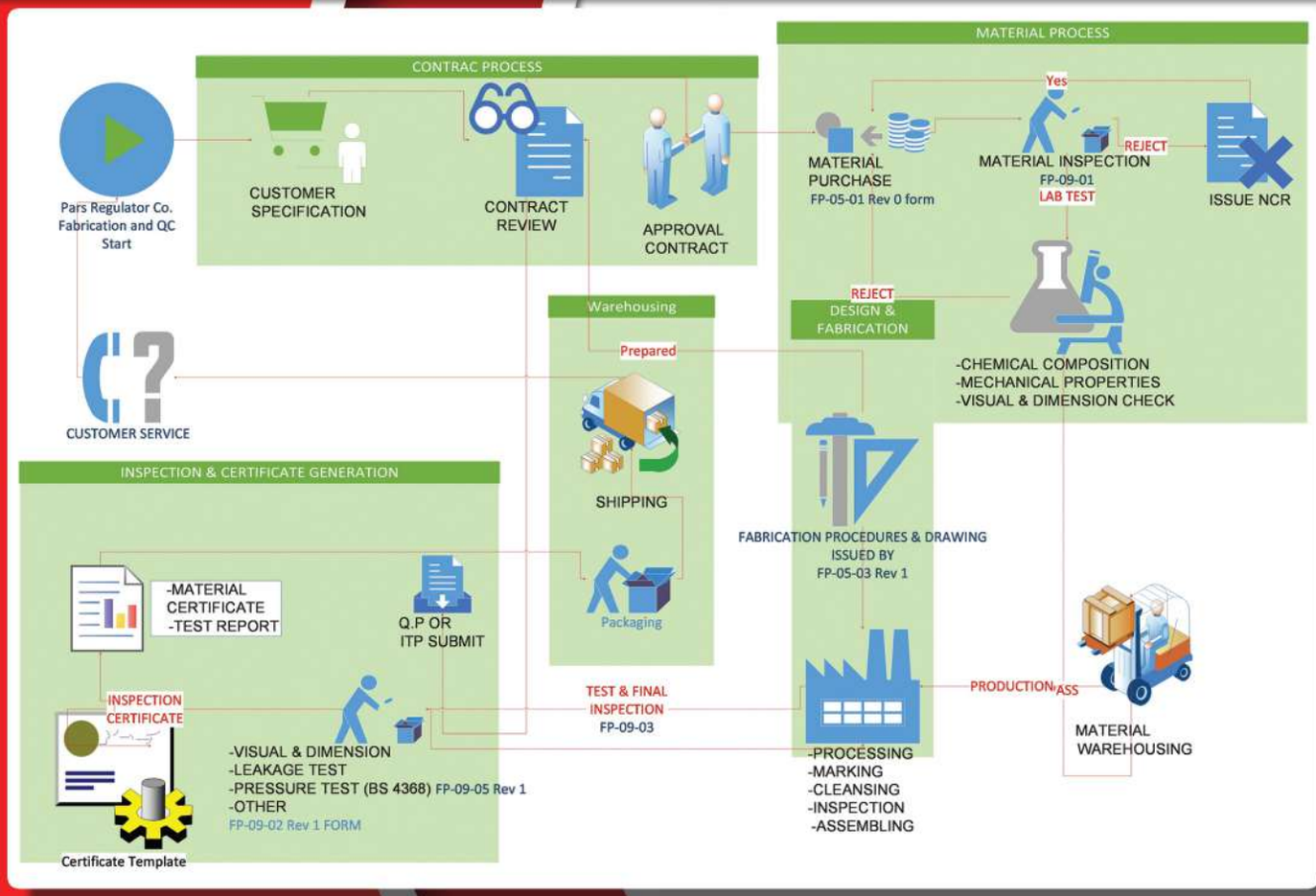
PARS REGULATOR QC FLOWCHART



PR SAMPLE CERTIFICATE

MILL TEST & INSPECTION CERTIFICATE

According to EN10204: 3.1

Customer: شرکت مجتمع گاز پارس جنوبی
Order No.: *03111*
Cert.No.: *PR-1208-CE03111-1*
REQ.NO.: *O-9540043-MRS*
BLOCK & BLEED VALVE

Date: *12/17/2017*

Pars Regulator Co.

Pars Regulator Co.
2nd Floor, #46 Building, Karimkhan St.
1584893117, Tehran - IRAN
Tel: (+98-21) 88 30 77 66(pbx)
Fax: (+98-21) 88 83 41 40
URL: www.parsregulator.com
Email: info@parsregulator.com

An ISO 9001: 2008 Registarted Manufacturer

Row	Item no.	Qty. (pcs)	Serial NO:	Description	Valve Component Part	Valve Component Material	Raw MaterialTraceability No.	Raw MaterialHeat NO .
1	1	8	665~694	SINGLE BLOCK & BLEED VALVES SIZE:2" FLG *3/4" NPTF BS 5351/API 6D CLASS 150LB, RF NACE MR0175	BODY	ASTM A182 F321 NACE MR0175	14675-1	7056
					CLOSURE	ASTM A182 F321 NACE MR0175	14480-1	69701
					BALL	AISI S.S 316/316L	LY101004	C-17
					STEM	AISI S.S 316/316L	10612-3	6042
					SEAT	PTFE	11400-1	6981
					NEEDLE VALVE	ASTM A182 F316/316L	19593-3	3892
					NEEDLE VALVE (STEM)	17-4PH	2545-1	443567
					NEEDLE VALVE (DISC)	17-4PH+STL	2545-1, 18331-1	443567, 239920
					PLUG	AISI S.S 316/316L	6164-1	3467

	Chemical Composition ASTM A182 F321 (Percent)												Mechanical Properties				
2-1	Elements	Product Code	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Fe	Tensile Strength(Mpa)	Yield Strength (Mpa)	Hardness (HB)	Elongation (%)	Reduction Area(%)
	(Body)	7056	0.015	0.42	1.77	0.038	<0.005	17.55	0.29	9.29	0.51	BASE	550	302	180	53	69
	(Clousre)	69701	0.017	0.49	1.88	0.032	0.006	17.82	0.26	9.52	0.39	BASE	520	300	193	50	45

	Chemical Composition ASTM A182 F316/316L (Percent)												Mechanical Properties				
2-2	Elements	Product Code	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Fe	Tensile Strength(Mpa)	Yield Strength (Mpa)	Hardness (HB)	Elongation (%)	Reduction Area(%)
	(Ball)	C-17	0.022	0.727	0.714	0.031	0.004	18.296	2.259	9.143	-	BASE	-	-	-	-	-
	(Stem)	6042	0.038	0.54	1.40	0.040	0.021	16.90	2.10	10.70	0.41	BASE	683	539	222	42	75
	(Needle valve)	3892	0.014	0.37	1.59	0.039	0.023	16.89	2.03	10.46	0.41	BASE	638	355	172	51	77
	(Plug)	3467	0.02	0.55	1.03	0.025	<0.003	16.3	2	10.1	0.48	BASE	629	490	191	43	77

	Chemical Composition 17-4PH (Percent)												Mechanical Properties				
2-3	Elements	Product Code	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Fe	Tensile Strength(Mpa)	Yield Strength (Mpa)	Hardness (HB)	Elongation (%)	Reduction Area(%)
	(Needle valve-Stem)	443567	0.018	0.39	0.86	0.023	0.016	15.98	0.16	4.43	3.29	BASE	1213	1151	378	14	58
	(Needle valve-Disc)	443567	0.018	0.39	0.86	0.023	0.016	15.98	0.16	4.43	3.29	BASE	1213	1151	378	14	58

	Chemical Composition Stellite Wire (Percent)												Mechanical Properties				
2-4	Elements	Heat NO	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Fe	Tensile Strength(Mpa)	Yield Strength (Mpa)	Hardness (HB)	Elongation (%)	Reduction Area(%)
	(Stellite)	239920	1.2	1.1	0.01	0.007	0.004	30	0.03	2.8	0.003	2.8	-	-	533(HV)	-	-

	Test Standard	Pressure/Shell Test				Pressure/Seat Test				Pressure/Air Test				Inspection	
		Pressure	Fluid	Duration	Results	Pressure	Fluid	Duration	Results	Pressure	Fluid	Duration	Results	DIMENTIONAL	OK
3	API 598/ASME B16.34	30 bar	WATER	120 Sec	OK	22 bar	WATER	120 Sec	OK	6 bar	AIR	120 Sec	OK	VISUAL	OK
														OPERATIONAL	OK
														COATING	N/A

Remark(s) :NACE MR 0175/ISO 15156 . Fire Safe API 607/ BS 6755.Visual & Dimensional is Satisfactory.
Pars Regulator Co. Hereby Declares that the Product(s) Supplied are in Compliance with the Related Standard(s), Requirement(s) of the Order and Supplies Test Result(s).The Certificate is Valid with Hologram.

Pars Regulator valves are manufactured in a wide range of materials, supplied by the best available steel mills, forged by well-known forgery with outstanding equipment and experience. All the material in the chemical composition and the mechanical characteristic.

Material Group	Common Name	Pars Regulator Code	Nominal Type	UNS	Forging Spec. (ASTM)	Casting Spec. Equivalent	DIN	DIN W.No	Application Notes
Carbon Steel	CS	A105N	C-Mn-Fe	K03504	A105N	A216-WCB	C22.8	1.0446	General non-corrosive from -20F(-29C) to 800F(427C)
Low Temperature Carbon Steel	LTCS	LF2	C-Mn-Si	K03011	A350-LF2	A352-LCA A352-LCB A352-LCC	ISTE 355	1.0566	General non-corrosive from -50F(-46C) to 650F(340C), LF2 to 800F(427C)
Low Alloy Steel	Alloy Steel Chrome Moly	F11 Cl.2	1-1/4 Cr-1/2Mo	K11572	A182-F11	A217-WC6	13CrMo44	1.7335	UP to 1100F (593C)
High Alloy Steel		F5	5Cr-1/2Mo	K41545	A 182-F5	A217-C5	12CrMo 195	1.7362	High temp refinery service
Stainless Steel	Austenitic S.Steel 300 series S.Steel	F304	18Cr-8Ni	S30400	A182-F304	A351-CF8	DIN A5Cr Ni 18 9	1.4301	0.08% min. carbon for temp.> 1000F (538C)
		F304L	18Cr-8Ni (C0.03)	S30403	A182-F304L	A351-CF3	A2 Cr Ni 18 11	1.4306	Up to 800F(427C)
		F316	16 Cr-12 Ni- 2 Mo (C0.08)	S31600	A182-F316	A351-CF8M	DIN A5Cr Ni Mo 18 10	1.4401	0.08% min. carbon for temp.> 1000F (538C)
		F316L	16 Cr-12 Ni- 2 Mo (C0.03)	S31603	A182-F316L	A351-CF3M	A3 Cr Ni Mo 17 122	1.4404	Up to 800F(427C)
		F321	18Cr-10Ni-Ti	S32100	A182-F321		A 6 Cr Ni Mo Ti 18 10	1.4541	0.08% min. carbon (grade F321H) and Heat treat at 2000F(1100C) for service temp.> 1000F(538C)
Martensitic Stainless Steel	F6a-13Cr-410	F6	13Cr	S41000	A182F6	A351-CA15			13% Cr Steel (trim material)
	17-4PH	17-4 PH		S17400	A564 UNS S17400	ASTM A494 CU5MCuC	A 3 Cr Ni Cu Nb 16-4	1.4542	
Super Austenitic Steel	Super Austenitic 904L	904L	44Fe-25Ni-21Cr-Mo	N08904	B649-NO 8904		20NiCrMo 25-20	1.4539	
Duplex Steel	Duplex 2205	F51	22Cr-5Ni-3Mo-N	S31803 S32205	A182-F51	A890-Grade 4A(UNS J92205)-A995 Gr5MMN	A2Cr Ni Mo N 22 5 3	1.4462	Service to 600F(316C)-the original S31803 UNS designation has been supplemented by S32205 which has higher minimum N, Cr, and Mo.
Super Duplex Steel	Super Duplex 2507	F53	25Cr-7Ni-4Mo-N	S32750	A182-F53	A351-CD4MCu A890 5A	A2Cr Ni Mo N 25 7 4	1.4410	Service to 600F(316C)
Nickel-Copper	Monel 400	Monel	67Ni-30Cu	N04400	B564-N04400	A494-M35-1	DIN 17750	2.4360	

SOFT SEAT MATERIAL

CODE	P.R. Co. DESIGNATION	CHEMICAL NAME/ DESIGNATION	TEMPERATURE RANGE	APPLICATION
S0	P.T.F.E	Polytetrafluoroethylene	-200 to 260°c	Virgin PTFE is used as a standard material for its high lubricity and superior sealing up to 180°c it is white in colour.
S1	R.P.T.F.E/Glass	Polytetrafluoroethylene glass filled	-60 to 220°c	Reinforced PTFE seats are made with glass filled PTFE (20%). They are harder than virgin PTFE white colour with green or blue speckles.
S2	R.P.T.F.E/Carbon Graphite	Polytetrafluoroethylene carbon-graphite filled	-190 to 250°c	Reinforced PTFE with (20%) carbon and 5% Graphite. These seats are black in colour.
S3	POM	Polyoxymethylene acetal resin	-50 to 100	This material is very rigid it has a combination of strength, stiffness, hardness dimensional stability, toughness, fatigue resistance, abrasion resistance low wear and low friction. It can withstand pressure up to 5000 PSIG depending on valve size. Do not use on oxygen service.
S4	PEEK	Polyetheretherketone	-60 to 220°c	Peek is recommended for high temperature (up to 260°c) but it is very hard compared to other non metallic materials. Not application for concentrated sulphuric acid.
S5	NYLON 12	Polyamide 12	-61 to 220°c	Nylon 12 is more suitable than PTFE for higher pressure but has a limited range in temperature.
S6	NYLON 11	Polyamide 11	-61 to 220°c	Nylon 11 is more suitable than PTFE for higher pressure but has a limited range in temperature.
S7	NYLON 6	Polyamide6	-40 to 110°c	Nylon 6 fibers are tough, possessing high tensile strength, as well as elasticity and lustre. They are wrinkle-proof and highly resistant to abrasion and chemicals such as acids and alkalis.
S8	FKM	Fluoroelastomer	-20 to 200°c	They have further improved resistance to high temperatures and chemicals and even withstand environments where Oxygen-Plasma are present for many hours.
S9	NBR	Nitrile butadiene rubber	-30 to 100°c	Nitrile rubber is more resistant than natural rubber to oils and acids, and has superior strength, but has inferior flexibility.
60	Silicon	-	-60 to 200°c	Silicon is a semi-organic elastomer with outstanding resistance to low temperatures. Silicon also has good resistance to compression set. Low physical strength and abrasion resistance combined with high friction limit silicone to low pressure applications. Silicone is used primarily for dry heat static seals.
61	Graphite	-	-100 to 600°c	Band carbon with excellent heat resistance. Not suitable as seat material when presence of oxidized service is expected.
62	EPDM	Ethylene propylene diene monomer	-50 to 150°c	The main properties of E.P.D.M are its outstanding heat, ozone, and weather resistance. The resistance to polar substances and steam are also good. It has excellent electrical insulating properties. It has good resistance to ketones, ordinary diluted acids, and alkalies.
63	Kel-F	Polychlorotrifluoroethylene	-200 to 204°c	PCTFE has high tensile strength and good thermal characteristics. It is non-flammable and the heat resistance is up to 175 °C. It has a low coefficient of thermal expansion.

BODY, BONNET AND CAP MATERIAL

Description		Carbon steel ASTM A105	Low Temp. Steel per ASTM A350 LF2	Alloy Steel ASTM A182	Austenitic S S ASTM A182			
				F11	304	316	304L	316L
CHEMICAL CMPOSITION	Carbon %	0.35max.	0.30 max.	0.10-0.20	0.08 max.	0.08 max.	0.035 max.	0.035 max.
	Manganese %	0.6-1.5	1035 max.	0.3-0.80	20 max.	20 max.	20 max.	20 max.
	Phosphor max. %	0.04	0.035	0.040	0.040	0.040	0.040	0.040
	Sulphur max. %	0.05	0.04	0.040	0.03	0.03	0.030	0.030
	Silicon %	0.35max.	0.15-0.30	0.5-1.0	1.0 max.	1.0 max.	1.0 max.	1.0 max.
	Nickel %	0.04max.	0.040 max.	-	8.00-11.00	10.00-14.00	8.00-13.00	8.00-15.00
	Chromium %	0.30max.	0.30 max.	1.00-1.5	18.00-20.00	16.00-18.00	18.0-20.0	16.00-18.00
	Molybdenum %	0.12max.	0.12 max.	0.44-0.65	-	2.0-3.0	-	2.00-3.00
	Copper %	0.4max.	0.40 max.	-	-	-	-	-
	Vanadium %	0.03max.	0.03 max.	-	-	-	-	-
	Columbium %	0.02max.	0.02 max.	-	-	-	-	-
MECHANICAL PROPERTIES	Tensile min. [Mpa]	485	485-655	515	515	515	485	485
	Yield min [Mpa]	250	250	310	205	205	170	170
	Elongation min. %	22	22	20	30	30	30	30
	Reduction %	30	30	30	50	50	50	50
	HB max.	187	187	156-207	-	-	-	-
	PREN				17.5-20.8	23.1-28.5	19.4-23.0	23.1-28.5

General Specification and Standard

Valve Type		Gate	Globe	Ball	Check
Shell Wall Thickness		API 600	API 600	API 600	API 600
General Valve Design Specifications		BS 1414	BS 1873		BS 1868
Pressure-Temperature rating		ASME/ANSI B16.34			
Face to face or End to end dimensions		ASME B16.10			
End flange dimensions Gasket Contact Facing	Size 1/4"-2"	ASME/ANSI B16.5			
	Size 2"-4"				
Buttwelding end dimensions		ASME B16.25			
welding end dimensions		ASME B16.11			
Bolt and Nut, thread		ASME/ANSI B1.1, B18.2.1, B18.2.2			
Test and Inspection	Chemical Composition	Relevent ASTM			
	Mechanical property test	Relevent ASTM			
	Pressure test	API 598, BS 5146 and ASME/ANSI B16.34			
	Dimensional inspection	Relevent valve Standard			
	Visual Inspection	MSS-SP 55			

Note Valves: For Servicing sour gases or other Hydrogen Sulfide bearing hydrocarbon fluids, PR offers NACE valves made of component material specially heat/treatment and hardness controlled in conformity with NACE MR-01-75 standard.

PRESSURE-TEMPERATURE RATING

The following table indicates rated valves of temperature and pressure for main materials of valves. Theses valve are determined according to American standard ASME/ANSI B16.34.

Temperature (°C)	Max. Working Pressure (bar)																								
	150					300					600					900					1500				
	A350 LF2	A182 F304	A182 F304L	A182 F316	A182 F316L	A350 LF2	A182 F304	A182 F304L	A182 F316	A182 F316L	A350 LF2	A182 F304	A182 F304L	A182 F316	A182 F316L	A350 LF2	A182 F304	A182 F304L	A182 F316	A182 F316L	A350 LF2	A182 F304	A182 F304L	A182 F316	A182 F316L
-29 to 38	19.6	19.0	15.9	19.0	15.9	51.1	49.6	41.4	49.6	41.4	102.1	99.3	82.7	99.3	82.7	153.2	148.9	124.1	148.9	124.1	255.3	248.2	206.8	248.2	206.8
50	19.2	18.3	15.3	18.4	15.3	50.1	47.8	40.0	48.1	40.0	100.2	95.6	80.0	956.2	80.0	150.4	143.5	120.1	144.3	120.1	250.6	239.1	200.1	240.6	200.1
100	17.7	15.7	13.3	16.2	13.3	46.6	40.9	34.8	42.2	34.8	93.2	81.7	69.6	84.4	69.6	139.8	122.6	104.4	126.6	104.4	233.0	204.	173.9	211.0	173.9
150	15.8	14.2	12.0	14.8	12.0	45.1	37.0	31.4	38.5	31.4	90.2	74.0	62.8	77.0	62.8	135.2	111.0	94.2	115.5	94.2	225.4	185.0	157.0	192.5	157.0
200	13.8	13.2	11.2	13.7	11.2	43.8	34.5	29.2	35.7	29.2	87.6	69.0	58.3	71.3	58.3	131.4	103.4	87.5	107.0	87.5	219.0	172.4	145.8	178.3	145.8
250	12.1	12.1	10.5	12.1	10.5	41.9	32.5	27.5	33.4	27.5	83.9	65.0	54.9	66.8	54.9	125.8	97.5	82.4	100.1	82.4	209.7	162.4	137.3	166.9	137.3
300	10.2	10.2	10.0	10.2	10.0	39.8	30.9	26.1	31.6	26.1	79.6	61.8	52.1	63.2	52.1	119.5	92.7	78.2	94.9	78.2	199.1	154.6	130.3	158.1	130.3
325	9.3	9.3	9.3	9.3	9.3	38.7	30.2	25.5	30.9	25.5	77.4	60.4	51.0	61.8	51.0	116.1	90.7	76.4	92.7	76.4	193.6	151.1	127.4	154.4	127.4
350	8.4	8.4	8.4	8.4	8.4	37.6	29.6	25.	30.3	25.	75.1	59.3	50.1	60.7	50.1	112.7	88.9	75.2	91.0	75.2	87.8	148.1	125.4	151.6	125.4
375	7.4	7.4	7.4	7.4	7.4	36.4	29.0	24.8	29.9	24.8	72.7	58.1	49.5	59.8	49.5	109.1	87.1	74.3	89.6	74.3	181.8	145.2	123.8	149.4	123.8
400	6.5	6.5	6.5	6.5	6.5	34.7	28.4	24.3	9.4	24.3	69.4	56.9	48.6	58.9	48.6	10.2	85.3	72.9	88.3	72.9	173.6	142.2	121.5	147.2	121.5
425	5.5	5.5	5.5	5.5	5.5	28.8	28.0	23.9	29.1	23.9	57.5	56.0	47.7	58.3	47.7	86.3	84.0	71.6	87.4	71.6	143.8	140.0	119.3	147.7	119.3
450	4.6	4.6	4.6	4.6	4.6	23.0	27.4	23.4	28.8	23.4	46.0	54.8	46.8	57.7	46.8	69.0	82.2	70.2	86.5	70.2	115.0	137.0	117.1	144.2	117.1
475	3.7	3.7		3.7		17.4	26.9		28.7		34.9	53.9		57.3		52.3	80.8		86.0		87.2	134.7		143.4	
500	2.8	2.8		2.8		11.8	26.5		28.2		23.5	53.0		56.5		35.3	79.5		84.7		58.8	132.4		140.9	

TEST BENCHES
& Reporting

TEST TYPES:

1

- Hydrostatic testing
- Proof and Leak Testing
- Gas or Air testing
- Vibration testing
- Impulse and shock testing

CONCEPT OF PR TEST BENCHES

2

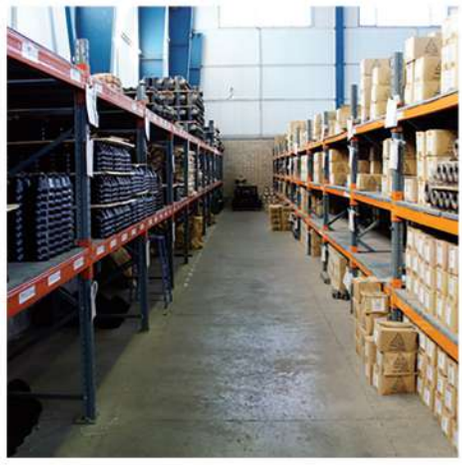
- Pars Regulator test benches are designed for durability, ease of use and accessibility. These test benches can be equipped for use with oil, water, air, gas or any combination of test medium. Pars Regulator test bench could be set up for hydrostatic testing with water and/or leak testing with gas or air.

PR TEST BENCH FEATURES:

3

- Operators of the Pars Regulator's Test Bench can't change any initial config data (according to related test standards values and conditions).
Test Report will be prepared for print, after test result approved by Test Bench.

MALARD WAREHOUSE



FITTING WAREHOUSE

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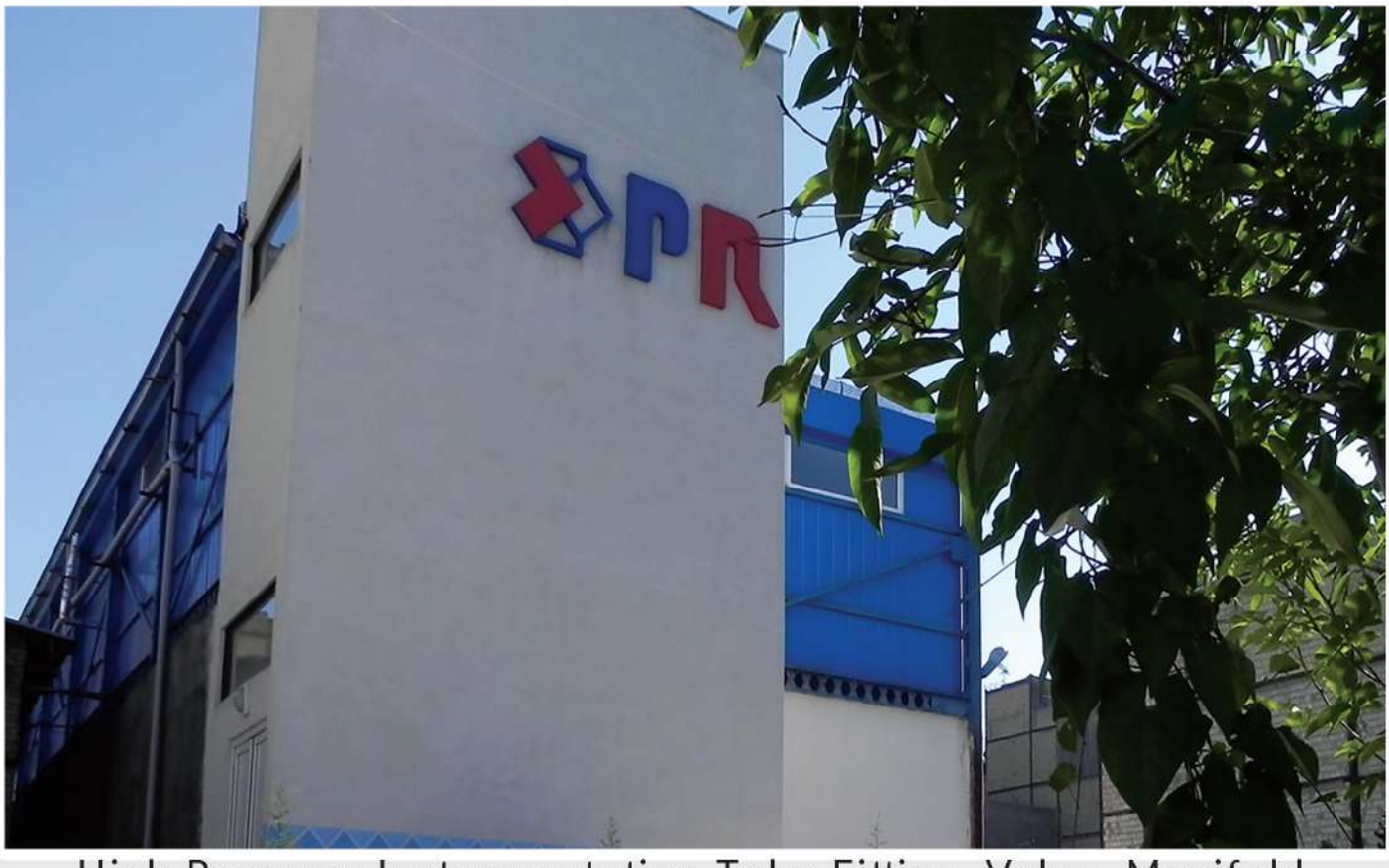
PARS REGULATOR CORP. (PJS)

MANUFACTURER, STOCKIST AND TRADING PRIVATE JOINT STOCK (PJS) COMPANY SINCE 1988



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VALVE & STEAM TRAP DEPARTMENT

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