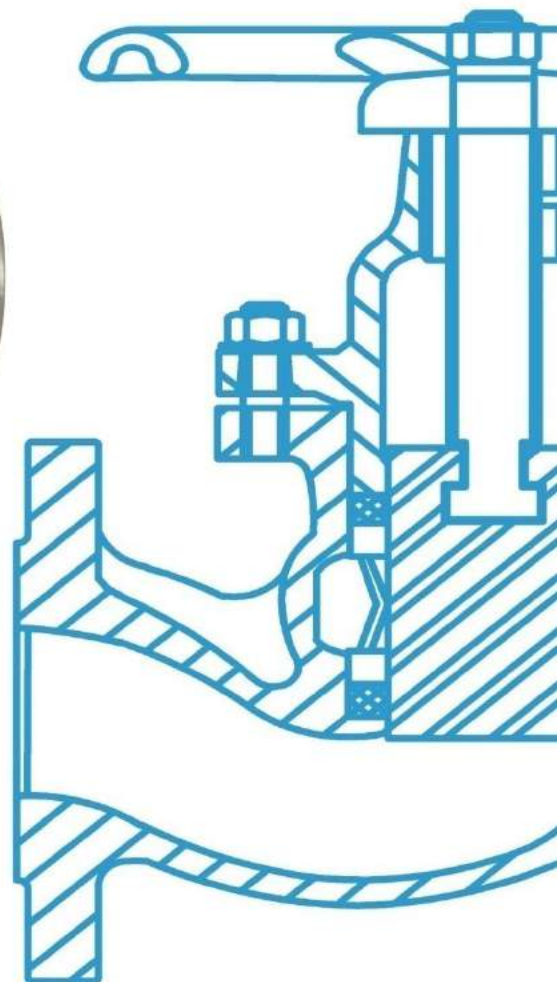
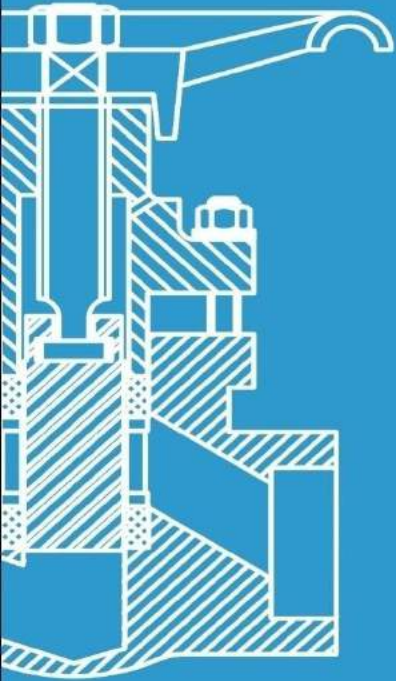


SHRIKAR VALVES PVT LTD

Piston Valves



Shrikar Valves Pvt Ltd is one of the prominent manufacturers and suppliers of Bellow Seal Valves which have been well accepted by its valued customers. These valves have been supplied to various companies for critical applications and as per feedbacks received, performing well to the satisfaction of users. We are being awarded with repeat orders in appreciation of the quality standards maintained. Our commitment to deliver quality Industrial Valves has helped us to gain prominence in the Valve Market.

Motivated with this success, Shrikar Valves ventured in to development and manufacture of Piston Valves. Quite a few valves have been supplied to various customers and performance has been satisfactory.

Mr. S K Vailaya, the promoter, has a working experience of more than 30 years in various MNCs manufacturing valves including Piston Valves & Bellow Seal Valves. Our team consisting of Young & Energetic Engineers with a lot of enthusiasm in development of New Products and innovative production techniques to meet the expectations of our clients in terms of quality, variety and cost efficiency. Further, our motivated team believes in teamwork and works on a singular goal of providing complete satisfaction to the customers. The team comprises experienced skilled & semi- skilled workers and other departmental employees. Their expertise in efficiently handling the varied involved processes ensures achievement of perfection in production.

With a reasonably modern infrastructure and strict quality control measures which is helpful in product development and production. Our company is committed to offer new age concept-to-application solutions to our esteemed clients, with continuous up gradation in our design, prototypic, testing, quality assurance and foundry operations. Our manufacturing unit also has in-house latest equipment for manufacturing, measuring & testing in accordance to international standards. We accept any third party inspection.



PISTON VALVES

Design Features: SG Piston Valves are designed keeping in mind the requirements of various International Valve manufacturing Standards. Though there is no specific Valve Manufacturing Standard applicable to Piston Valve as such, body/bonnet wall thickness, flange dimensions, overall length etc are followed as per applicable Globe Valve Standards. Hence, **Flanged End Globe Valves can be easily replaced with Piston Valves** – No Change in pipeline is required.

Piston Valves are highly recommended for Steam, Thermic Fluid(Hot Oil), Vacuum, Compressed Gases, Hot Air and other critical Media.

Cast Piston Valve 15- 50 NB - SPS

Design Features:

Sealing in Piston Valve is due to resilient rings in contact with metallic Piston. Sealing Rings are made from special Graphite material with SS316 insert which can withstand high temperature. **Therefore, Piston Valve is soft seated but suitable for high Temperature up to 425°C.** Presence of graphite rings ensures excellent lubrication and very low friction when Piston is operated. Sealing is amazingly simple, only two rings in sizes from 15mm to 50mm. Lower valve ring seals the media across the port and upper valve ring seals the media to atmosphere.

- Seat less and Glandless Valve – Globe valve with a difference.
- Resilient ring to metal seal – tight shut off.
- Sealing Ring can withstand high temperature up to 400°C.
- Unique sealing system, large sealing area.
- Not affected by impurities/particles as they are flushed back while closing.
- Time proven metal laminated long lasting resilient rings
- Environmentally safe and highly energy efficient.
- Very low maintenance, on line replacement of Sealing rings.
- Very good flow control characteristics.
- Inspection & Test: API 598
- Face-to-Face: ANSI B 16.10
- End Connection: Flange ends ASME B16.5
- Size & Pressure: ½"~2", 150#, 300#, PN40
- Materials of main parts: Cast Steel/Stainless steel
- Sealing : Gr Rings with SS316, PTFE, GFT.

Accessories

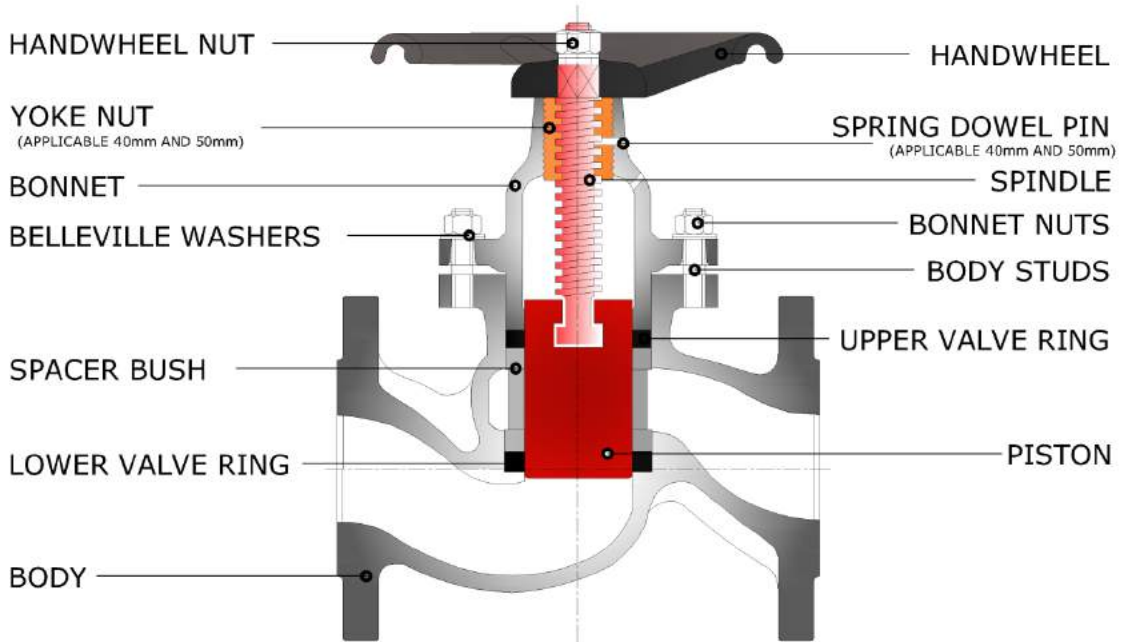
Hand Wheel Locking Arrangement
Extended Stem Design,
Cryogenic service valves
Pneumatic/Electric Actuators

Optional

Screwed Ends (BSP / NPT)
Butt Weld Ends to ANSI B16.25

SPS 150 – Cast Piston
Valve 15-50 mm 150#

SPS 300 - Cast Piston
Valve 15-50 mm 300#



Cast Piston Valve 65- 200 NB - SPL

Design Features:

Though sealing principle remains same as valve size 15mm to 50mm, pressure acting on large size Piston has been compensated in order to reduce the operational torque. Therefore, Piston is modified to have media pressure same at below and above Piston. This means, effect of media pressure on Piston is nullified thereby making valve operation easy. Two main rings act as seal across ports and two similar rings but small size act as seal to atmosphere. There is one more ring between body/bonnet joint.

- Seat less and Glandless Valve – Globe valve with a difference.
- Resilient ring to metal seal – tight shut off.
- Sealing Ring can withstand high temperature up to 425°C.
- Unique sealing system, large sealing area.
- Not affected by impurities/particles as they are flushed back while closing.
- Time proven metal laminated long lasting resilient rings
- Environmentally safe and highly energy efficient.
- Very low maintenance, on line replacement of Sealing rings.
- Very good flow control characteristics.
- Inspection & Test: API 598
- Face-to-Face: ANSI B 16.10
- End Connection: Flange ends ASME B16.5
- Size & Pressure: 2½”~8”, 150#, 300#, PN40
- Materials of main parts: Cast Steel/Stainless steel
- Sealing : Gr Rings with SS316, PTFE, GFT.

Accessories

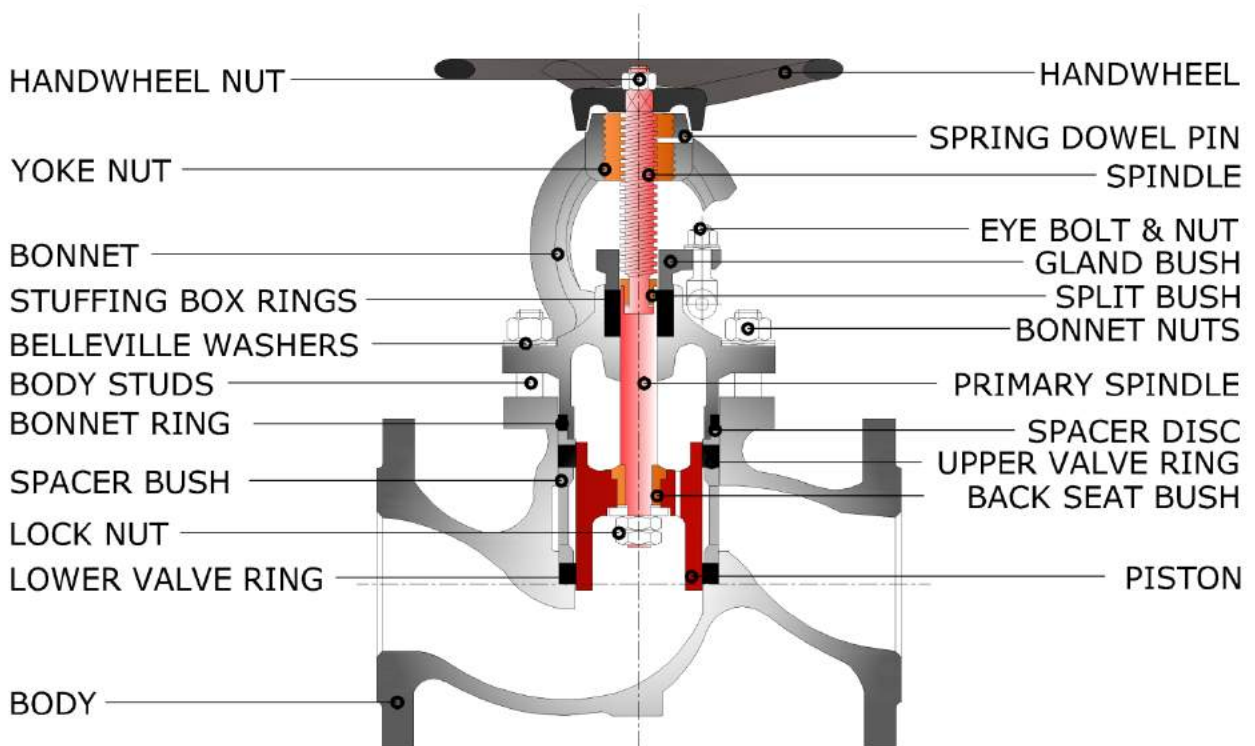
Hand Wheel Locking Arrangement
Extended Stem Design,
Cryogenic service valves
Pneumatic/Electric Actuators

Optional

Screwed Ends (BSP / NPT)
Butt Weld Ends to ANSI B16.25

SPL 150 – Cast Piston
Valve 65-200 mm 150#

SPL 300 - Cast Piston
Valve 65-200 mm 300#



Forged Piston Valve - SPF

Design Features:

Sealing in Piston Valve is due to resilient rings in contact with metallic Piston. Sealing Rings are made from special Graphite material with SS316 insert which can withstand high temperature. **Therefore, Piston Valve is soft seated but suitable for high Temperature up to 425°C.** Presence of graphite rings ensures excellent lubrication and very low friction when Piston is operated. Sealing is amazingly simple, only two rings in sizes from 15mm to 50mm. Lower valve ring seals the media across the port and upper valve ring seals the media to atmosphere. With forged body and bonnet, valve is having reduced bore and hence very compact. Ideal for application like pressure gauges, steam traps and other instruments.

- Seat less and Glandless Valve – Globe valve with a difference.
- Resilient ring to metal seal – tight shut off.
- Sealing Ring can withstand high temperature up to 400°C.
- Unique sealing system, large sealing area.
- Not affected by impurities/particles as they are flushed back while closing.
- Time proven metal laminated long lasting resilient rings
- Environmentally safe and highly energy efficient.
- Very low maintenance, on line replacement of Sealing rings.
- Very good flow control characteristics.
- Inspection & Test: API 598
- Face-to-Face: ANSI B 16.10
- End Connection: Screwed Ends (BSP / NPT)
- Butt Weld Ends to ANSI B16.25
- Size & Pressure: ½"~1 ½", 800#.
- Materials of main parts: Forged Steel/Stainless steel
- Sealing : Gr Rings with SS316, PTFE, GFT.

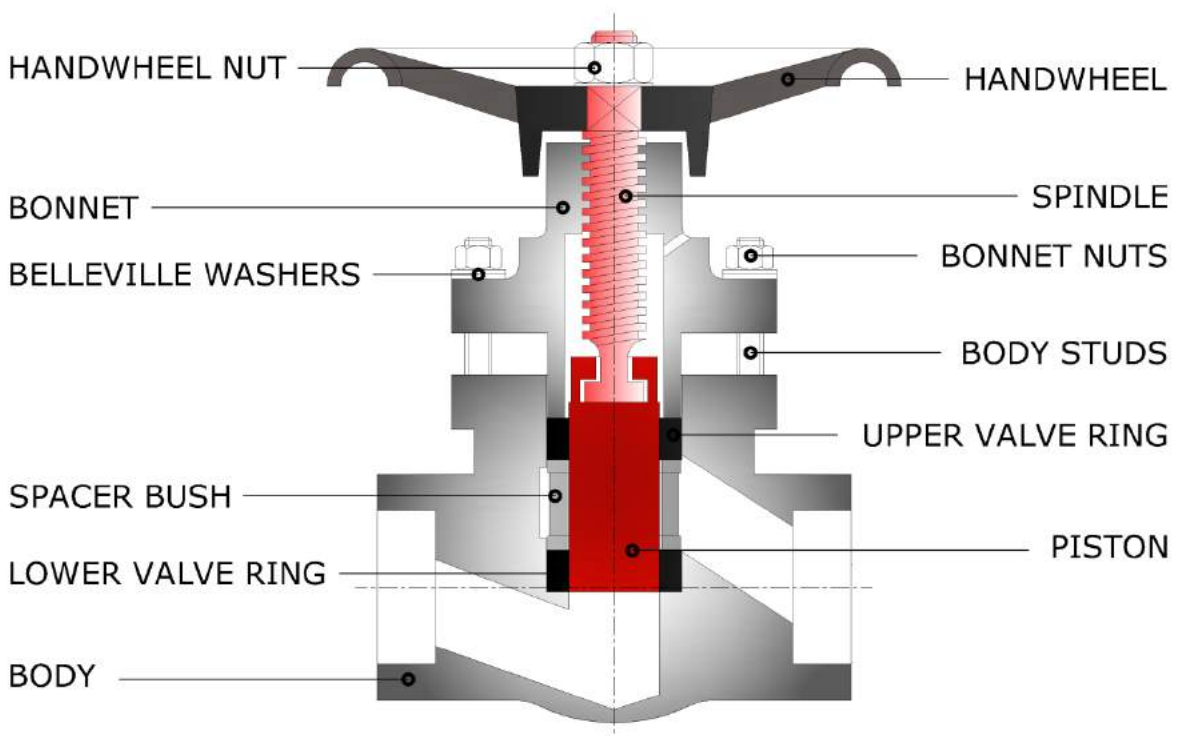
Accessories

Hand Wheel Locking Arrangement
Extended Stem Design,
Cryogenic service valves
Pneumatic/Electric Actuators

Optional

Flange ends ASME B16.5(Welded)
To 150# 300# & 600#.
Full Bore Design

SPF – Forged Piston Valve
15-40 mm



Dimensions

150# 15-50mm (SPS 150)

Size(mm)	F-F	FL Ø	FL. THK	R F Ø	R F TH	P C Ø	No of Holes	HOLE Ø
15	108	90	9.6	35	2	60.3	4	16
20	117	100	11	43	2	69.9	4	16
25	127	110	13	51	2	79.4	4	16
32	140	115	14	64	2	88.9	4	16
40	165	125	16	73	2	98.4	4	16
50	203	150	18	92	2	121	4	19

300# 15-50mm (SPS 300)

Size(mm)	F-F	FL Ø	FL. THK	R F Ø	R F TH	P C Ø	No of Holes	HOLE Ø
15	152	95	13	35	2	67	4	16
20	178	115	14	43	2	82	4	19
25	203	125	16	51	2	89	4	19
32	216	135	18	64	2	98	4	19
40	229	155	19	73	2	114	4	22
50	267	165	21	92	2	127	8	19

150# 65-200mm (SPL 150)

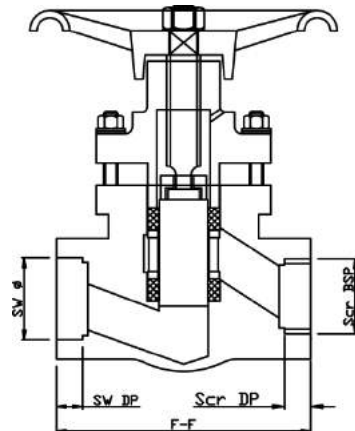
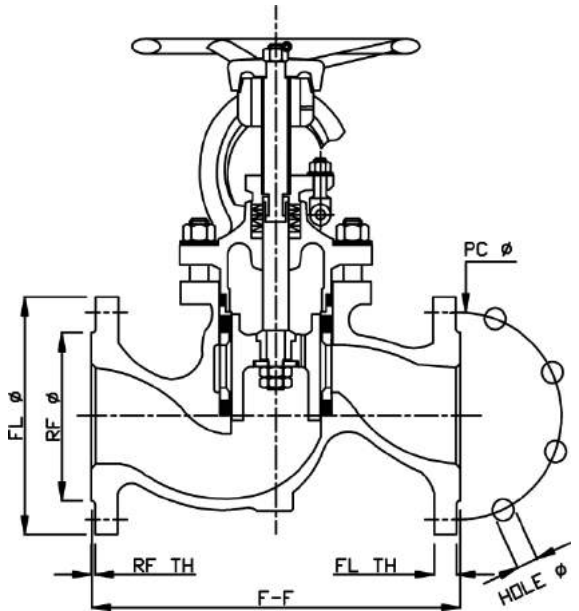
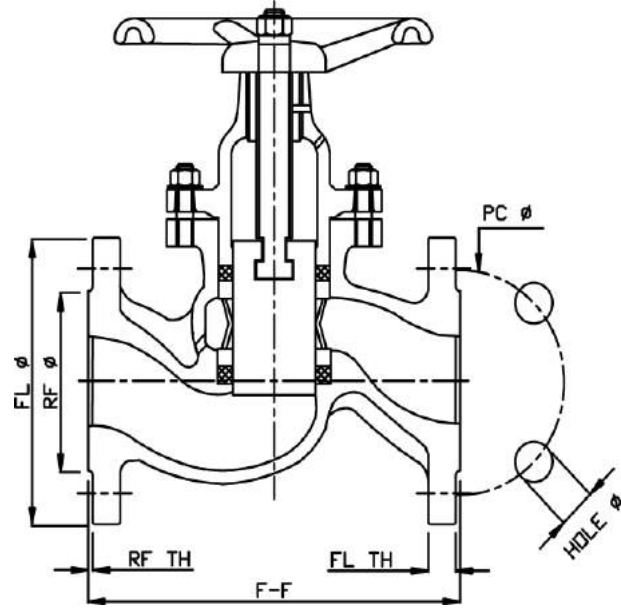
Size(mm)	F-F	FL Ø	FL. THK	R F Ø	R F TH	P C Ø	No of Holes	HOLE Ø
65	216	180	20.7	105	2	140	4	19
80	241	190	22.3	127	2	152	4	19
100	292	230	22.3	157	2	191	8	19
125	355	255	22.3	186	2	216	8	22
150	406	280	23.9	216	2	241	8	22
200	495	345	27	270	2	299	8	22

300# 65-200mm (SPL 300)

Size(mm)	F-F	FL Ø	FL. THK	R F Ø	R F TH	P C Ø	No of Holes	HOLE Ø
65	292	190	24	105	2	149	8	22
80	318	210	27	127	2	168	8	22
100	356	255	30	157	2	200	8	22
125	400	280	33	186	2	235	8	22
150	445	320	35	216	2	270	12	22
200	559	380	40	270	2	330	12	25

Forged SW And Scr End (SPF 800)

Size(mm)	F-F	SW Ø	SW. DP	Scr BSP	Scr Depth
15	86	21.8	10	½"	15.5
20	92	27.2	13	¾"	16
25	105	33.9	13	1"	17
32	127	36.8	13	1 ¼"	20
40	127	48.7	13	1 ½"	22



Limiting Factors

Rating	Pmax (kg/cm ²)	Temp°C	T max °C	Press. (kg/cm ²)
#150	14.00	200	425	5.50
#300	45.00	200	425	29.00
#800	117.00	200	425	78.00

Special Instructions:-

- 1) Flush pipelines properly.
- 2) Install pipe line strainers*.
- 3) Open/Close the valve using hand wheel only.
- 4) Tighten bonnet nuts to stop passing.
- 5) Lubricate spindle regularly**.

* Solid Impurities like Weld Slag, Metal and other hard pieces present in Pipe line are bound to damage Soft Sealing Rings in Piston Valve. Hence, installation of a strainer upstream of the valves is highly recommended.

** Use high Temperature Grade Lubricant .

Hydro Pneumatic Pressure Test Chart

Rating	Hydro		Air
	Body	Seat	Seat
#150	32	22	7
#300	79	57	7
#600	156	115	7
#800	210	155	7

Pressure in Kg/cm²



SPF



SPS



SPL

All Spares in Original like Piston Sealing Rings, Spindle, Spacer Bush, Fasteners etc are easily available.



Our Other Products

- Bellow Seal Valves
- Globe Valves - Forged and Cast
- Gate Valves - Forged and Cast
- Strainers
- Ball Valves
- Butterfly Valves
- NRV



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