

**Brief introduction :**

Forged steel check valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304/graphite Ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint. The check valve is also available in three different design configurations. These are piston check, ball check, or swing check designs.

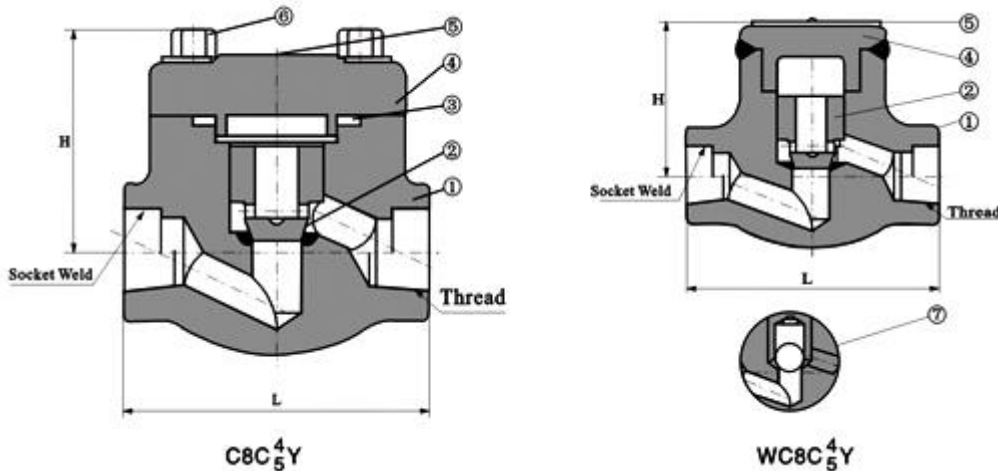
Technical Specification

- ❖ Globe valves conform to API 602, and ASME B 16.34 ✕ each are tested according to API 598, and marking is per MSS SP-25
- ❖ Full Port or Conventional Port ✕ Outside Screw and Yoke(OS & Y) ✕ Two piece self-aligning packing gland
- ❖ Bolted bonnet with spiral wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet
- ❖ Integral backseat
- ❖ Socket weld ends to ASME B16.11
- ❖ Screwed Ends (NPT) to ANSI/ASME B1.20.1

PRODUCT - CHECK VALVE

Forged Steel Check Valve

Main external and connection dimension



Standard Material Specification

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Piston Disc	A276 410	A276 304	A276 304(L)	A276 316(L)
3	Gasket	Corrugated SS+ graphite		SS+PTFE	
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Nameplate	SS			
6	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		Water, oil, gas etc.,		Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc
Suitable Temperature		-29 °C ~425 °C		-29 °C ~550 °C	-29 °C ~180 °C

PRODUCT - CHECK VALVE

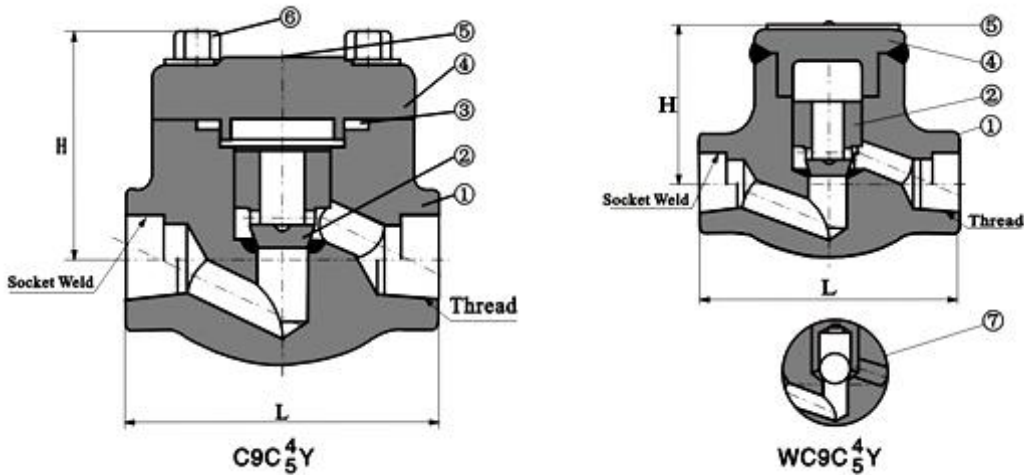
Forged Steel Check Valve

Dimension (mm) and Weight (Kg)

NPS	Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
	Full		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L		79	79	92	111	120	152	172	200
H		61	61	65	79	95	103	118	132
Weight	Bolted	1.4	1.2	1.5	3.1	3.9	5.6	8.9	12.5
	Welded	1.1	1	1.2	2.9	3.3	4.9	8.1	10.9

Note: Other materials are available upon request. CS=Carbon Steel; AS=S=Alloy Steel; SS=Stainless Steel;

Piston Check Valve 900Lb~1500Lb



Standard Material Specification

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Piston Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Gasket	Corrugated SS+ graphite		SS+PTFE	
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Nameplate	SS			
6	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		Water, oil, gas etc.,		Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc
Suitable Temperature		-29 °C ~ 425 °C		-29 °C ~ 550 °C	-29 °C ~ 180 °C

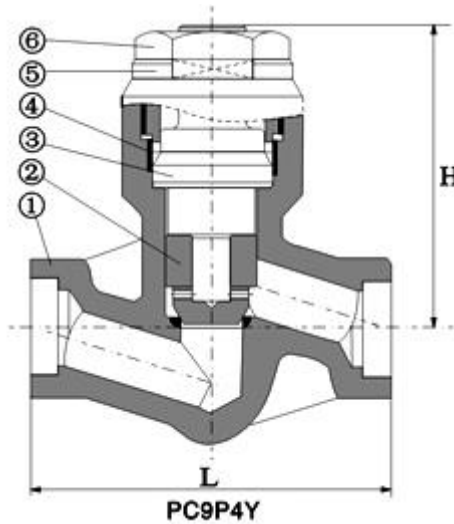
PRODUCT - CHECK VALVE

Forged Steel Check Valve

Dimension (mm) and Weight (Kg)

NPS	Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
	Full		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L		92	111	111	120	152	172	200	220
H		65	79	79	97	104	120	139	215
Weight	Bolted	1.6	3.4	3.3	5.5	6.0	9.2	12.9	16.2
	Welded	1.3	3.2	3.1	4.8	5.4	8.5	11.2	14.3

Pressure-seal Piston Check Valve 900Lb ~ 2500Lb



Standard Material Specification

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Lift Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Sealing Seat	A105	F22	A182 F304(L)	F316(L)
4	Pressure Ring	08F	08F	A276 304L	A276 316L
5	Retaining Nut	A194 2H	A194 4	A194 8	A194 8M
6	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
Suitable Medium		Water, oil, gas etc.,	Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc.	
Suitable Temperature		-29 °C ~ 425 °C	-29 °C ~ 550 °C	-29 °C ~ 180 °C	

PRODUCT - CHECK VALVE

Forged Steel Check Valve

Dimension (mm) and Weight (Kg)

NPS		1/2"	1/4"	1"	1 1/4"	1 1/2"	2"
L	900Lb~1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
H		117	117	117	152	152	195
Weight	900Lb~1500Lb	7.5	7	6.8	18.5	18.1	20.3
	2500Lb	9	7.6	8.4	19.5	20.1	21.8

Swing Check Valve 800Lb, 900Lb~1500Lb

Standard Material Specification

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A276 410	A276 304	A276 304(L)	A276 316(L)
3	Swing Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
4	Nut	A194 2H	A194 4	A194 8	A194 8M
5	Hinge	A105	A182 F22	A182 F304L	A182 F316(L)
6	Gasket	Corrugated SS+ Graphite		SS+PTFE	
7	Bonnet	A105	A182 F22	A182 F304L	A182 F316(L)
8	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
9	Pin	A276 420		A182 F304	A182 F316
Suitable Medium		Water, oil, gas etc.,	Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc	
Suitable Temperature		-29 °C ~425 °C	-29 °C ~550 °C	-29 °C ~180 °C	

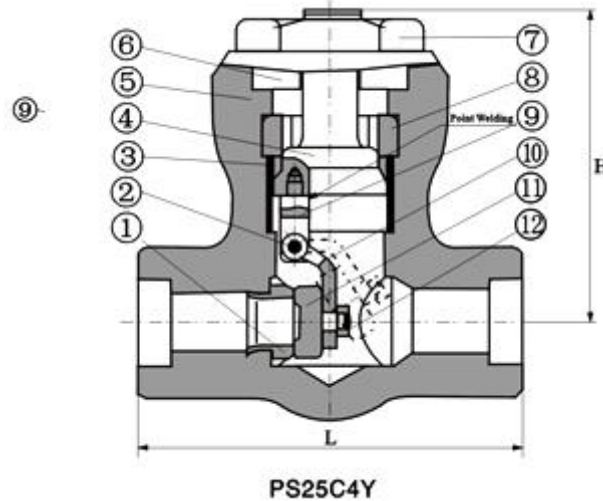
Dimension (mm) and Weight (Kg)

NPS		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	800Lb	79	79	92	111	120	120	140
	900Lb~1500Lb	92	111	111	120	120	140	178
H	800Lb	61	61	78	84	101	120	133
	900Lb~1500Lb	79	79	79	97	105	120	140
Weight	800Lb	1.1	1	1.9	3.9	4.5	7.3	10
	900Lb~1500Lb	3.1	3	3.6	4.3	6.1	8.8	12.6

PRODUCT - CHECK VALVE

Forged Steel Check Valve

Pressure-seal Swing Check Valve 900Lb~2500Lb



Standard Material Specification

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Seat Ring	A276 410	A276 304	A276 304(L)	A276 316(L)
2	Pin	A276 420		A182 F304	A182 F3 16
3	Pressure Ring	A276 304L			A276 316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 316(L)
5	Body	A105	A182 F22	A182 F304(L)	A182 316(L)
6	Bonnet	A105	A182 F22	A182 F304 L	A182 316(L)
7	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
8	Quarter Ring	A276 420	A182 F304		A182 F316
9	Pont levis	A105	A182 F22	A182 F304 L	A182 F316(L)
10	Hinge	A105	A182 F22	A182 F304 L	A182 F316(L)
11	Disc	A276 A420	F304	A182 F304(L)	F316(L)
12	Nut	A194 2H	A194 4	A194 8	A194 8M
Suitable Medium		Water, oil, gas etc.,	Water, oil, gas etc.,	HNO 3 ,CH 3 OOH etc	
Temperature		-29 °C ~425 °C	-29 °C ~550 °C	-29 °C ~180 °C	



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PRODUCT - CHECK VALVE

Forged Steel Check Valve

Dimension (mm) and Weight (Kg)

NPS		1/2"	1/4"	1"	1 1/4"	1 1/2"	2"
L	900Lb~1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
H		117	117	117	152	152	195
Weight	900Lb~1500Lb	8.2	7.8	7.7	19.8	19.2	21.3
	2500Lb	10	9.6	9.4	21.5	21.1	22.8