



This volume shows the pictures to provide a reference only. If some technical standards and the model number specification have variety, Forgive and don't go another notice.

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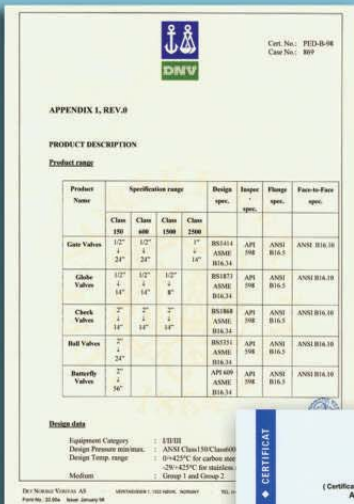
FORGED STEEL VALVE



API 6D



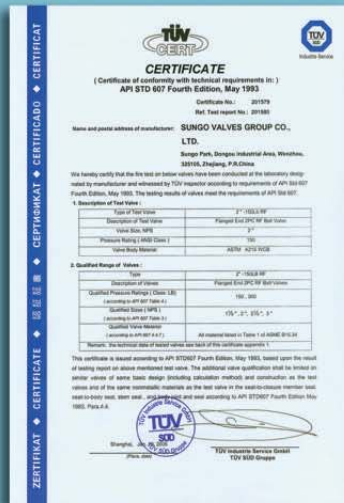
CE/PED



CE/PED



ISO9001



Fire Safe Test



Fire Safe Test

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6D-0487

CEPED-B-8

0575

ISO9001

ISO14001

API-607



Brief Introduction

COMPLETED SOLUTION FOR INDUSTRIAL VALVES

Today, SUNGO is one of the Asia's leading manufacturers of industrial steel valves with five specialized manufacturing plants, including three in Wenzhou, two in Shanghai. We have 680 employees. We owe much of our success to quality and innovation, which have been the cornerstone of SUNGO since its inception in 1980, and to our philosophy of dynamic leadership. We concentrate on one business—the design, manufacture and marketing of steel valves in a broad range of types and sizes, demanding advanced technology. has fulfilled all the qualifications to manufacture a wide range of industrial valves for the most severe and demanding services of the Oil, Gas, Refinery, Chemical, Marine, Power and Pipeline Industries.

SUNGO's products including: Gate, globe and check valve, We also offer plug valve and a advanced line of highly competitive ball valves with metal and resilient seats, as well as a complete range of cryogenic valves, bellows seal valves and triple offset metal-seated butterfly valves. Size range from 1/2"~120"(DN15-3000); Class rating from class150~2500; materials range from conventional cast or forged steel to special alloy material like Monel, Inconel, Hastelloy or Duplex steel. SUNGO are able to produce valves for working temperature -196~-650°, all available to fully comply with ASTM, ANSI, API, BS, DIN and JIS standards.

SUNGO FACILITIES

SUNGO's facilities in with five specialized manufacturing plants, one Foundry and the new established Technical Research Center. SUNGO employed a large number of CNC machine for most of valves fabrication and we are among the few manufactures who are able to perform in-house Fire Safe test, cryogenic test, High pressure gas test, High temperature test and Fugitive emission test.

QUALITY ASSURANCE

SUNGO's Quality Assurance is dedicated to pursuit of zero defect valve, and this has resulted in the company having more quality qualifications than most of our competitors. SUNGO is certified by ISO 9001, API6D, API607, CE/PED and SUNGO ball valwere fire safe tested & certified by TUV.

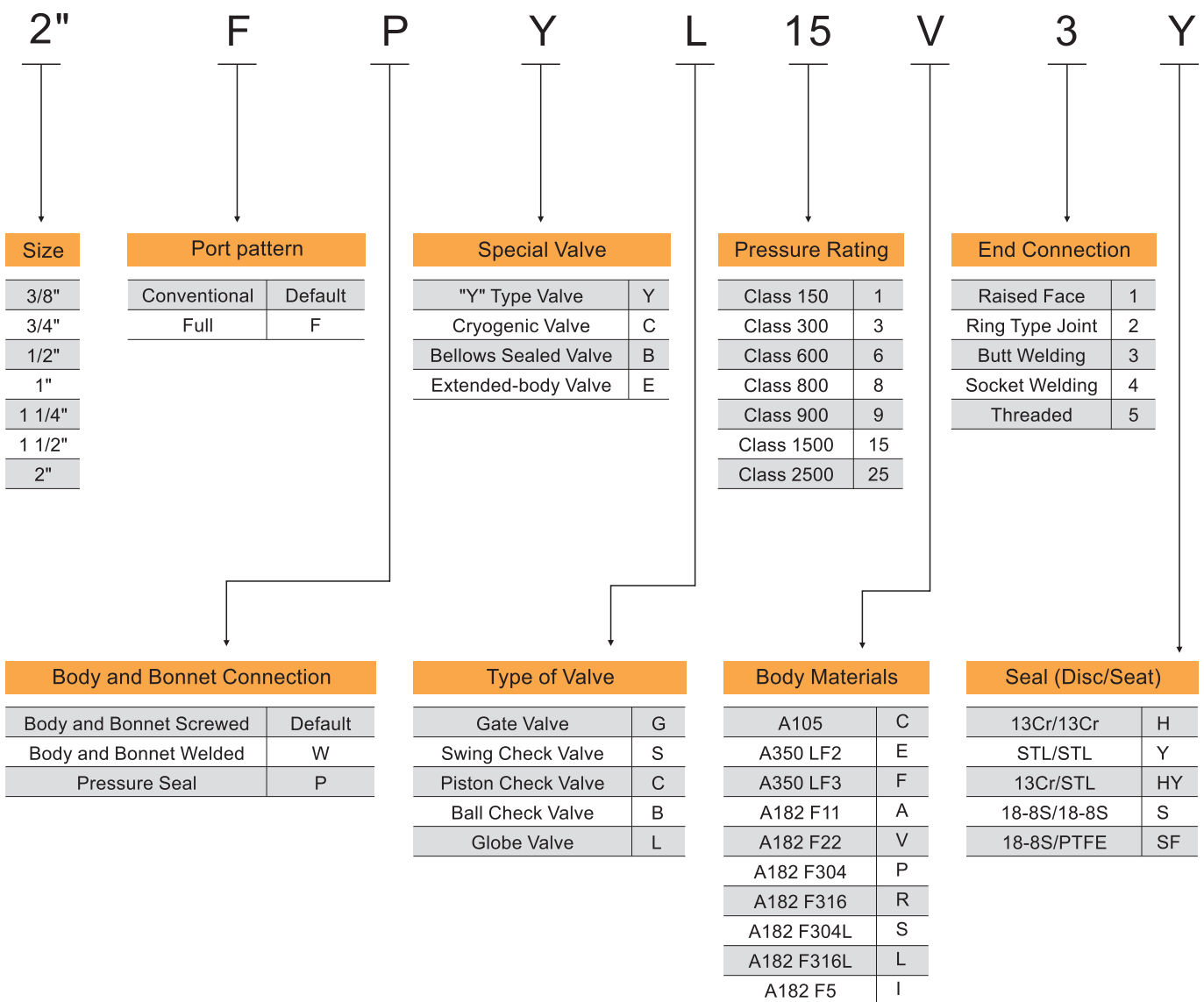
CORPORATE PHILOSOPHY

The SUNGO corporate philosophy is to bring the market new and innovative valve designs with special emphasis on quality, safety, ease of operation, simple in-line maintenance and most of all, long service life. All this combined with the use of high quality materials, advanced manufacturing technology and automation in all stages of manufacturing ensures the highest possible quality at a competitive price. SUNGO is strongly committed to defending its market position aggressively competing in all countries around the world. The company's impressive growth is testimony to the balanced competence in research, design, production and marketing with a firm determination to maintain its leadership in the valve industry - today and in the future.

Figure Numbering

That our customer is whether familiar with our figure number system or not doesn't matter while specifying or ordering our valves. Providing a full description of the valve is given, our sales office will translate this into a figure number.

We give an example below in order to illustrate a typical figure numbering, but if a more concrete explanation is required, please contact us.



Forged Steel Gate Valves

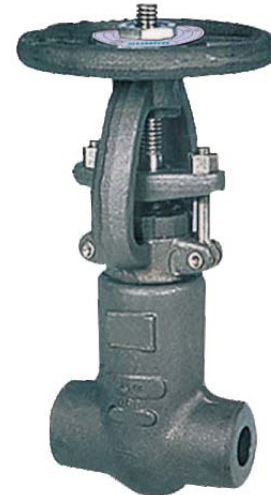
SUNGO valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, ring joint gasket are also available on request. The second design is the welded bonnet, with a threaded and seal welded joint. On request a full penetration strength welded joint is available. The third design is the pressure seal bonnet, with a threaded and pressure seal bonnet joint.



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet

Gate Valve Design Construction and Specifications

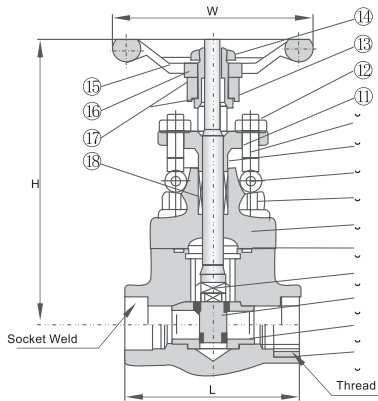
SUNGO gate valves conform to API 602, and ASME B 16.34

Each are tested according to API 598, and marking is per MSS SP-25.

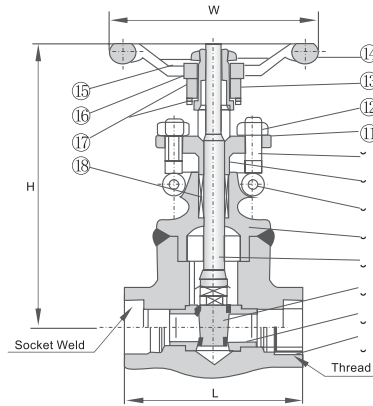
Construction is as follows

- * 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

Forged Steel Gate Valve Class800



G8C $\frac{4}{5}$ Y



WG8C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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 Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430 & 410	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite	Corrugated SS+graphite	SS+PTFE	SS+PTFE
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420	A276 420	A182 F304	A182 F304
9	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420	A276 420	A276 420	A276 420
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS	SS	SS	SS
16	Handwheel	A197	A197	A197	A197
17	Lubricated Gasket	A473 431	A473 431	A473 431	A473 431
18	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29 \ddot{Y} -425 \ddot{Y}	-29 \ddot{Y} -550 \ddot{Y}	-29 \ddot{Y} -180 \ddot{Y}	-29 \ddot{Y} -180 \ddot{Y}

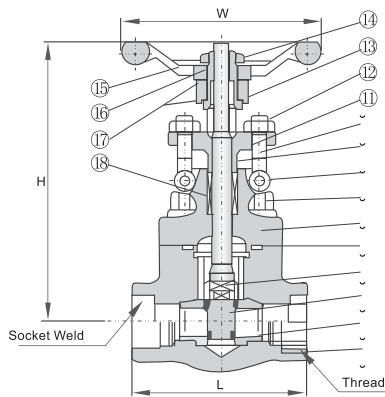
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

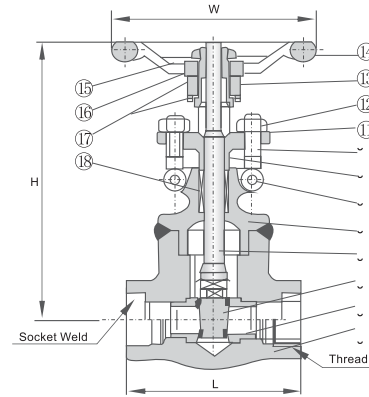
Dimension (mm) and Weight (kg)

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	120	140	178
H(OPEN)		158	158	169	197	236	246	283	330
W		100	100	100	125	160	160	180	200
Weight	Bolted	2.1	2.0	2.3	4.3	5.9	6.9	11.1	15.2
	Welded	1.8	1.7	2.0	3.8	5.1	6.1	10.2	14.2

Forged Steel Gate Valve Class900,1500



G9C $\frac{4}{5}$ Y



WG9C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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 Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430 & 410	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite	Corrugated SS+graphite	SS+PTFE	SS+PTFE
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420	A276 420	A276 304	A276 304
9	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420	A276 420	A276 420	A276 420
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS	SS	SS	SS
16	Handwheel	A197	A197	A197	A197
17	Lubricated Gasket	A473 431	A473 431	A473 431	A473 431
18	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

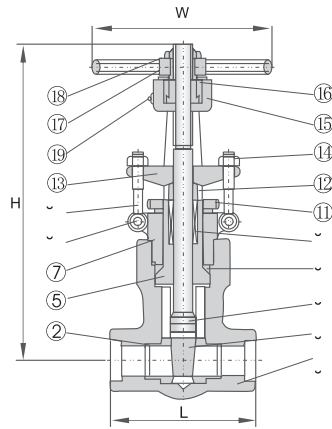
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

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	120	140	178	210
H(OPEN)		169	197	197	236	246	283	330	354
W		100	125	125	160	160	180	200	240
Weight	Bolted	2.5	4.3	4.2	6.6	8.8	12.5	17.2	23.5
	Welded	2.4	4.2	4.0	6.3	8.7	12.1	17.2	22.0

Forged Steel Pressure - Seal Gate Valve Class900~2500



PG9C4Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430 & 410	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105	A182 F304	A182 F304(L)	F316(L)
6	Pressure Ring	A216 304L	A216 304L	A216 304L	A276 316L
7	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8(M)	A193 B8(M)
9	Pin	A276 420	A276 420	A182 F304(L)	A182 F304(L)
10	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
11	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
12	Gland	A276 F420	A276 F420	A182 F304	A182 F304
13	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
14	Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276-410	A276-410	A276-410	A276-410
16	Retaining Nut	A194 2H	A194 4	A194 8	A194 8M
17	Handwheel	A197	A197	A197	A197
18	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
19	Oil Cup	Brass	Brass	Brass	Brass
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

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

Dimension (mm) and Weight (kg)

NPS		1/2"	1/4"	1"	1 1/4"	1 1/2"	2"
L	Class900,1500	140	140	140	178	178	216
	Class2500	186	186	186	232	232	279
H(OPEN)		321	321	321	380	414	502
W		160	160	180	200	250	280
Weight	Class900,1500	11.5	10.8	10.5	19.6	21.0	55.4
	Class2500	12.3	11.6	10.8	26.0	28.4	60.0

Forged Steel Globe Valves

SUNGO valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/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.



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet

Globe Valve Design Construction and Specifications

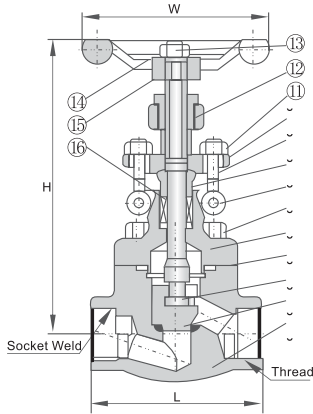
SUNGO globe valves conform to API 602, and ASME B 16.34

Each are tested according to API 598, and marking is per MSS SP-25.

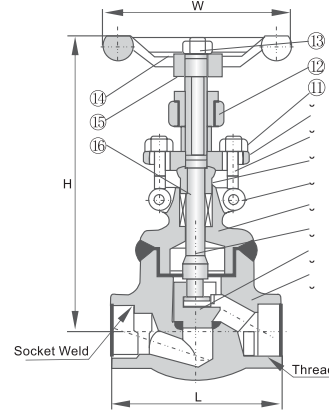
Construction is as follows

- * 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
- * Loose solid disc
- * Socket weld ends to ASME B16.11
- * Screwed Ends (NPT) to ANSI/ASME B1.20.1

Forged Steel Globe Valve Class800



L8C $\frac{4}{5}$ Y



WL8C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+graphite	Corrugated SS+graphite	SS+PTFE	SS+PTFE
5	Bonnet	A105	A276 304	A276 F304(L)	A276 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 420	A276 420	A276 304	A276 304
8	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
9	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
10	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
11	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
12	Yoke Nut	A276 410	A276 410	A276 410	A276 410
13	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
14	Nameplate	SS	SS	SS	SS
15	Handwheel	A197	A197	A197	A197
16	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

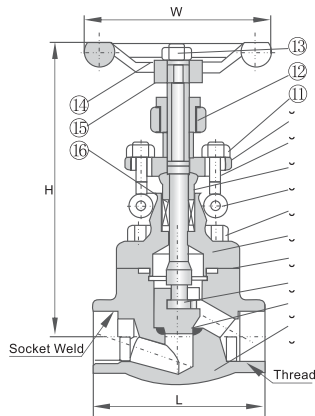
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

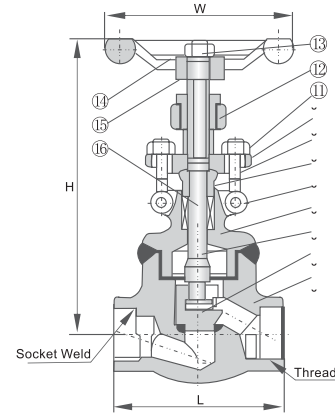
Dimension (mm) and Weight (kg)

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(OPEN)		166	166	171	207	240	258	330	355
W		100	100	100	125	160	160	180	200
Weight	Bolted	1.9	1.9	2.1	3.5	6.0	7.5	11.4	14.6
	Welded	1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8

Forged Steel Globe Valve Class900,1500



L9C $\frac{4}{5}$ Y



WL9C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+graphite	Corrugated SS+graphite	SS+PTFE	SS+PTFE
5	Bonnet	A105	A276 304	A276 F304(L)	A276 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 420	A276 420	A276 304	A276 304
8	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
9	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
10	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
11	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
12	Yoke Nut	A276 410	A276 410	A276 410	A276 410
13	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
14	Nameplate	SS	SS	SS	SS
15	Handwheel	A197	A197	A197	A197
16	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29 \checkmark -425 \checkmark	-29 \checkmark -550 \checkmark	-29 \checkmark -180 \checkmark	-29 \checkmark -180 \checkmark

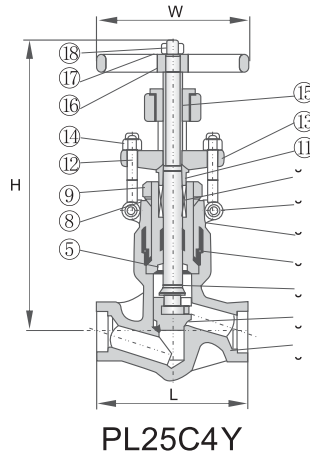
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

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(OPEN)		171	207	207	240	258	330	355	370
W		100	125	125	160	160	180	200	240
Weight	Bolted	2.2	3.7	3.6	6.8	7.6	11.6	15.0	21.9
	Welded	2.0	3.4	3.3	6.0	5.6	10.3	14.2	18.0

Forged Steel Pressure - seal Globe Valve Class900~2500



Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105T	Type A182 F22	Type A182 F304	Type A182 F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Ring	A182 F304L	A182 F304L	A182 F304L	A182 F316L
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Pin	A276 420	A276 420	A182 F304	A182 F304
8	P.S.Washer	A105	A182 F22	A182 F304(L)	A182 F316(L)
9	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
10	Stem Packing	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
11	Gland	A276 420	A276 420	A182 F304	A182 F304
12	Gland Eyebolt	A216 WCB	A216 WCB	A351 CF8	A351 CF8
13	Gland Flange	A193 B7	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 410	A276 410	A276 410	A276 410
16	H.W.Lock Nut	A197	A197	A197	A197
17	Nameplate	SS	SS	SS	SS
18	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	Class900,1500	140	140	140	178	178	216
	Class2500	186	186	186	232	232	279
H(OPEN)		333	333	333	408	408	524
W		160	160	180	200	250	280
Weight	Class900,1500	11.2	10.5	10.1	21.0	19.6	40.4
	Class2500	12.3	11.6	10.8	28.0	26.4	43.8

Forged Steel Check Valves

SUNGO check valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/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 are also available in three different design configurations. These are piston check, ball check, or swing check designs.



Bolted Bonnet



Welded Bonnet



Pressure Seal Bonnet

Check Valve Design Construction and Specifications

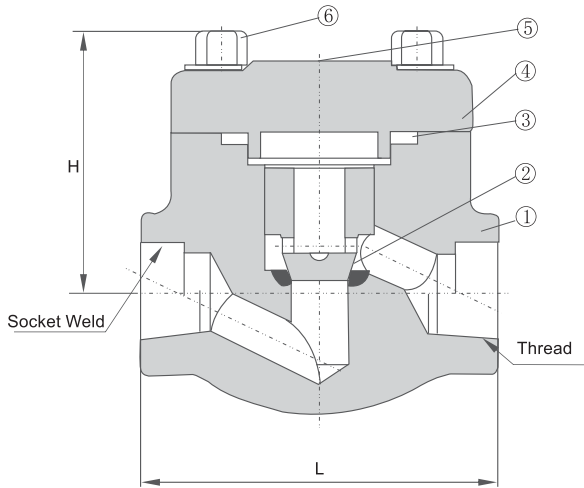
SUNGO check valves conform to ASME B16.34

Each are tested according to API 598, and marking is per MSS SP-25.

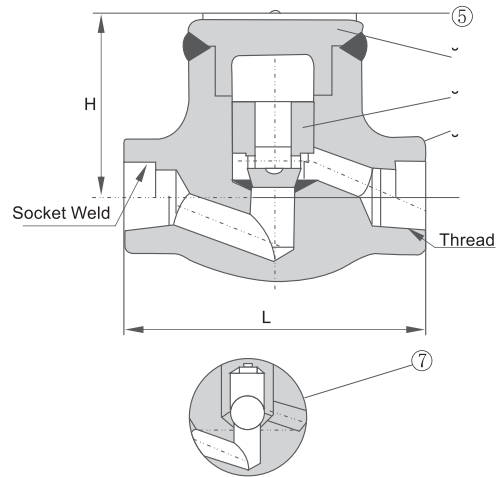
Construction is as follows

- * Full Port or Conventional Port
- * Piston check
- * Ball check
- * Swing check
- * Spring available on request
- * Bolted bonnet with spiral wound gasket, threaded and Seal welded bonnet or threaded and pressure seal bonnet
- * Socket weld ends to ASME B16.11
- * Screwed Ends (NPT) to ANSI/ASME B1.20.1

Forged Steel Piston Check Valve Class800



C8C $\frac{4}{5}$ Y



WC8C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Corrugated SS+graphite	SS+PTFE	SS+PTFE
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Nameplate	SS	SS	SS	SS
6	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ , CH ₃ OOH etc	HNO ₃ , CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

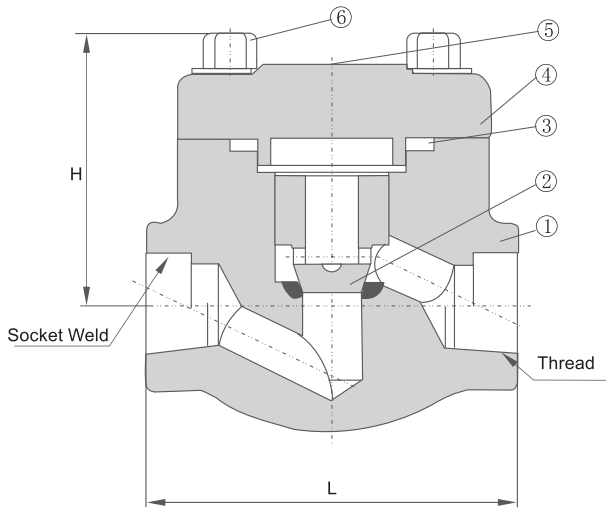
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

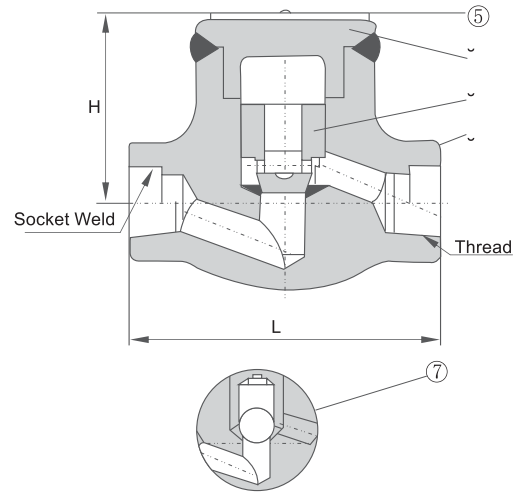
Dimension (mm) and Weight (kg)

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"	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	1.0	1.2	2.9	3.3	4.9	8.1	10.9

Forged Steel Piston Check Valve Class 900, 1500



C9C $\frac{4}{5}$ Y



WC9C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Corrugated SS+graphite	SS+PTFE	SS+PTFE
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Nameplate	SS	SS	SS	SS
6	Bolt	A193 B7	A193 B16	A193 B8M	A193 B8M
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ , CH ₃ OOH etc	HNO ₃ , CH ₃ OOH etc
Suitable Temperature		-29 \checkmark ~425 \checkmark	-29 \checkmark ~550 \checkmark	-29 \checkmark ~180 \checkmark	-29 \checkmark ~180 \checkmark

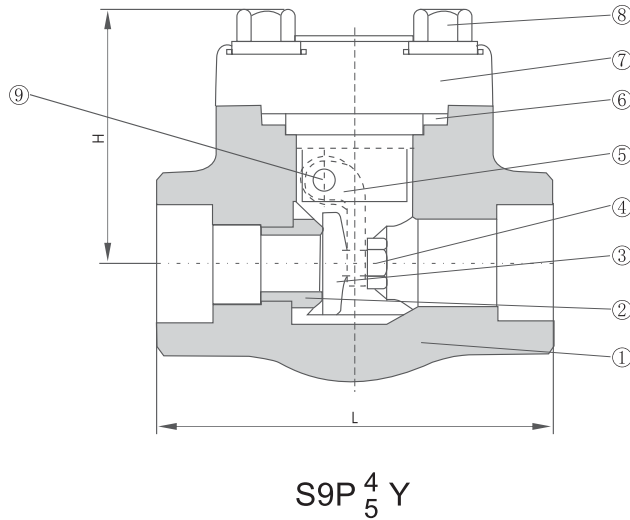
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

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

Forged Steel Swing Check Valve Class800, 900,1500



Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Corrugated SS+Graphite	SS+PTFE	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	A276 420	A182 F304	A182 F316
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Y~425Y	-29Y~550Y	-29Y~180Y	-29Y~180Y

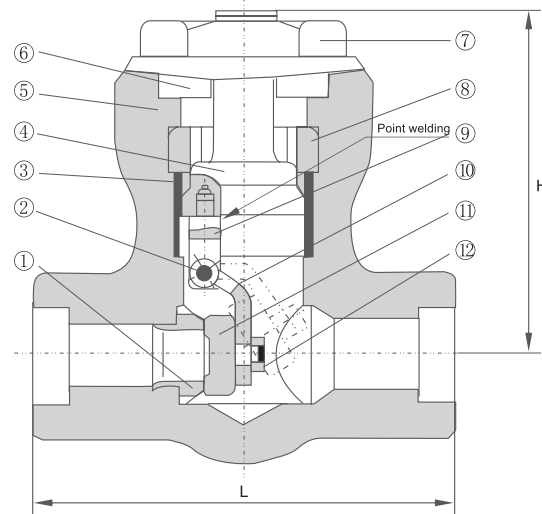
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	Class800	79	79	92	111	120	120	140
	Class900,1500	92	111	111	120	120	140	178
H	Class800	61	61	78	84	101	120	133
	Class900,1500	79	79	79	97	105	120	140
Weight	Class800	1.1	1.0	1.9	3.9	4.5	7.3	10.0
	Class900,1500	3.1	3.0	3.6	4.3	6.1	8.8	12.6

Forged Steel Pressure-seal Swing Check Valve Class900~2500



PS25C4Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	A276 420	A182 F304	A182 F316
3	Pressure Ring	A276 304L	A276 304L	A276 304L	A276 316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
6	Bonnet	A105	A182 F22	A182 F304L	A182 F316(L)
7	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
8	Quarter Ring	A276 420	A182 F304	A182 F304	A182 F316
9	Pontlevis	A105	A182 F22	A182 F304L	A182 F316(L)
10	Hinge	A105	A182 F22	A182 F304L	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		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29℥~425℥	-29℥~550℥	-29℥~180℥	-29℥~180℥

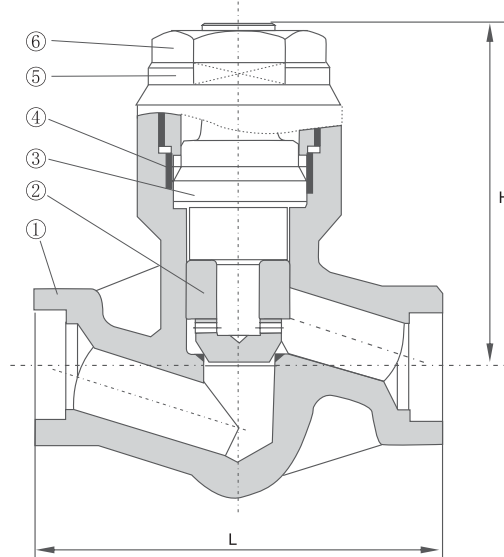
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS		1/2"	1/4"	1"	1 1/4"	1 1/2"	2"
L	Class900,1500	140	140	140	178	178	216
	Class2500	186	186	186	232	232	279
H		117	117	117	152	152	195
Weight	Class900,1500	8.2	7.8	7.7	19.8	19.2	21.3
	Class2500	10.0	9.6	9.4	21.5	21.1	22.8

Forged Steel Pressure-seal Piston Check Valve Class900~2500



PC9P4Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29ÿ~425ÿ	-29ÿ~550ÿ	-29ÿ~180ÿ	-29ÿ~180ÿ

Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	Class900,1500	140	140	140	178	178	216
	Class2500	186	186	186	232	232	279
H		117	117	117	152	152	195
Weight	Class900,1500	7.5	7.0	6.8	18.5	18.1	20.3
	Class2500	9.0	7.6	8.4	19.5	20.1	21.8

Forged Steel Y Type Valves

SUNGO Y Type valves are available in Three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/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 Y Type valves are available in globe and check design configurations.



Bolted Y Type Globe



Welded Y Type Check



Bolted Y Type Check

Y Type Valve Design Construction and Specifications

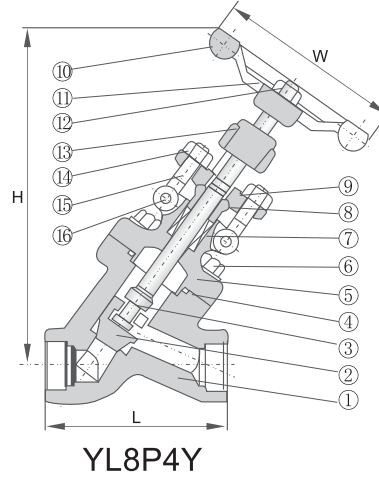
SUNGO Y Type globe and check valves conform to ANSI B16.34.

Each are tested according to API 598, and marking is per MSS SP-25.

Construction is as follows

- * Full Port or Conventional Port
- * Piston and ball check
- * Spring available on request
- * Loose solid disc
- * Two piece self-aligning packing gland
- * Integral back seat
- * Outside Screw and Yoke (OS & Y)
- * Bolted bonnet with spiral- wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet
- * Socket weld ends to ASMB B16.11
- * Screwed Ends (NPT) to ANSI/ASMB B1.20.1

Forged Steel Y Type Globe Valve Class800



Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+graphite	Corrugated SS+graphite	SS+PTFE	SS+PTFE
5	Bonnet	A105	A276 304	A276 F304(L)	A276 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
8	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
9	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
10	Handwheel	A197	A197	A197	A197
11	Nameplate	SS	SS	SS	SS
12	H.W. Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410	A276 410	A276 410	A276 410
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
16	Pin	A276 420	A276 420	A276 304	A276 304
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

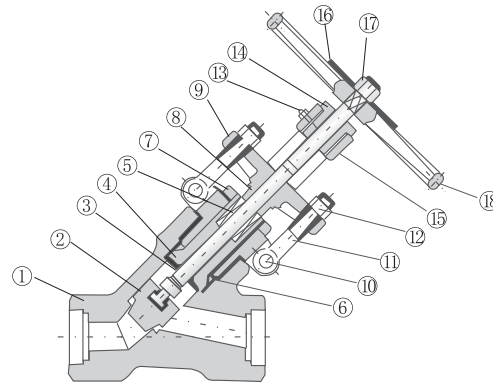
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	98	111	120	140	140	170
H(OPEN)	175	215	254	305	305	365
W	100	125	160	160	180	200
Weight	5	6.3	7.6	9.8	13.8	14.0

Forged Steel Pressure-seal Y Type Globe Valve Class900~2500



PYL25C $\frac{4}{5}$ Y

Standard Material Specification

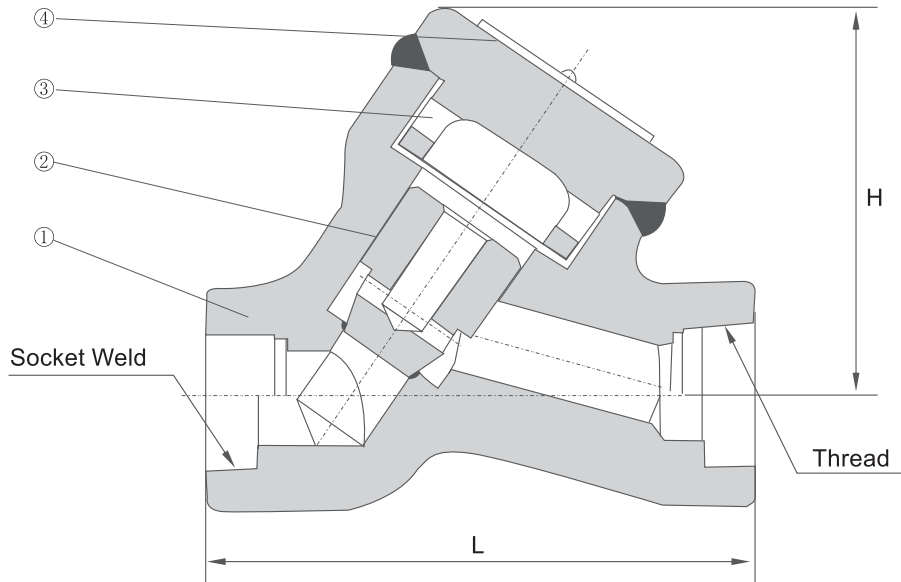
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type A182 F22	Type A182 304(L)	A182 F182 F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	Stem Packing	Flexible graphite	Flexible graphite	PTFE	PTFE
6	Pressure Ring	A182 F304(L)	A182 F304(L)	A182 F304(L)	A182 F316(L)
7	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
8	Gland	A182 F304(L)	A182 F304(L)	A182 F304	A182 F304
9	Gland Flange	A276 420 A216 WCB	A276 420 A216 WCB	A351 CF8	A351 CF8
10	Pin	A276 420	A276 420	A182 F304	A182 F304
11	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
12	Gland Nut	A194 2H	A194 4	A194 8	A193 8M
13	Lubricated Ear	A105	A182 F22	A182 F304(L)	A182 F316(L)
14	Yoke Nut	A276 410	A276 410	A276 410	A276 410
15	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
16	Nameplate	SS	SS	SS	SS
17	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
18	Handwheel	A197	A197	A197	A197
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

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

Dimension (mm) and Weight (kg)

NPS		1/2"	1/4"	1"	1 1/4"	1 1/2"	2"
L	Class900,1500	140	140	140	178	178	216
	Class2500	186	186	186	232	232	279
H(OPEN)		333	333	333	406	406	524
W		125	125	160	160	180	200
Weight	Class900,1500	11.2	10.5	10.1	21.0	19.6	40.4
	Class2500	12.3	11.6	10.8	28.0	26.4	43.8

Forged Steel Y Type Piston Check Valve Class800



YC8P $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Bonnet	A105	A182 F22	A182 F304L	A182 F316(L)
4	Nameplate	SS	SS	SS	SS
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

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		98	98	110	120	140	140	170	200
H		85	85	95	105	114	114	132	145
Weight		3.1	3.0	3.7	6.5	8.5	8.0	10.9	12.5

Forged Steel Cryogenic Valves

SUNGO Cryogenic valves are available in Three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/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 cryogenic valves are available in gate and globe design configurations. Valves are designed with an extended bonnet for use in cold services to -196 degrees C (-320 degrees F).



Bolted Bonnet Cryogenic Valve

Cryogenic Valve Design Construction and Specifications

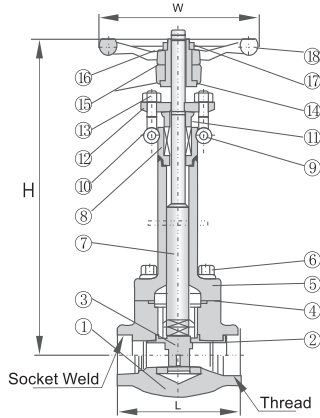
SUNGO Cryogenic gate and globe valves conform to API 602.

Each are tested according to API 598, and marking is per MSS SP-25.

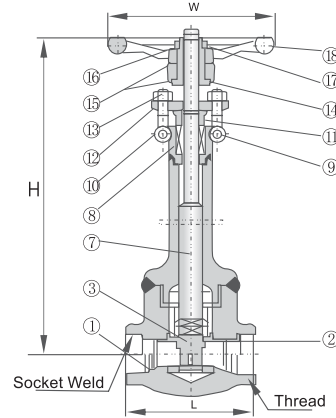
Construction is as follows

- * Full Port or Conventional Port
- * Two piece self-aligning packing gland
- * Bolted bonnet with spiral wound gasket, threaded and seal welded bonnet
- * Integral backseat
- * Pressure relief hole on seat (for Gate Valves only)
- * Socket weld ends to ASMB B16.11
- * Screwed Ends (NPT) to ANSI/ASME B1.20.1
- * Special extension lengths on request
- * Soft seats for globe valves on request
- * PTFE stem packing on request
- * Special low temperature testing on request
- * Outside Screw and Yoke (OS&Y)

Cryogenic Forged Steel Gate Valve Class800



CG8C $\frac{4}{5}$ Y



WCG8C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	AS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type LF2	Type LF3	Type F304(L)	Type F316(L)
1	Body	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 410	A276 304(L)	A276 316(L)
3	Wedge	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
5	Bonnet	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A193 B7	A193 B7	A193 B8	A193 B8M
7	Stem	A182 F6	A182 F6	A182 F304(L)	A182 F316(L)
8	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
9	Pin	A276 420	A276 420	A276 304	A276 304
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
12	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
13	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
14	Yoke Nut	A276 420	A276 420	A276 420	A276 420
15	Lubricated Gasket	A473 431	A473 431	A473 431	A473 431
16	Nameplate	SS	SS	SS	SS
17	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
18	Handwheel	A197	A197	A197	A197
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		Ÿ-40Ÿ	Ÿ-101Ÿ	Ÿ-196Ÿ	Ÿ-196Ÿ

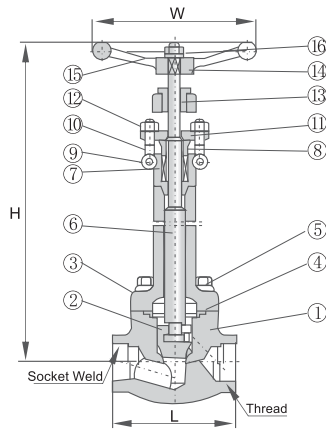
Note: Other materials are available upon request.

AS=Alloy Steel; SS=Stainless Steel.

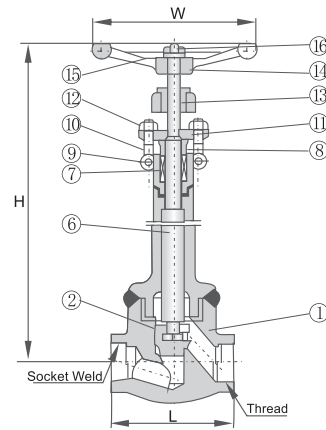
Dimension (mm) and Weight (kg)

NPS	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	79	92	111	120	120	140	178
H(OPEN)	330	333	360	407	475	475	551
W	100	100	125	160	160	180	200
Weight	Bolted	5.2	7.1	9.4	13.5	17.8	28.0
	Welded	4.8	6.4	8.7	12.2	15.2	26.0

Cryogenic Forged Steel Globe Valve Class800



CL8C $\frac{4}{5}$ Y



WCL8C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	AS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A350 LF2	Type A350 LF3	Type A182 F304	Type A182 F316(L)
1	Body	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 304(L)	A276 304(L)	A276 316(L)
3	Bonnet	A350 LF2	A350 LF3	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
5	Bolt Nut	A193 B7	A193 B7	A193 B8	A193 B8M
6	Stem	A182 F6	A182 F6	A182 F304(L)	A182 F316(L)
7	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
8	Gland	A276 420	A276 420	A182 F304	A182 F304
9	Pin	A276 420	A276 420	A182 F304	A182 F304
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410	A276 410	A276 410	A276 410
14	Handwheel	A197	A197	A197	A197
15	Nameplate	SS	SS	SS	SS
16	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
		A197	A197	A197	A197
	Suitable Medium	W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
	Suitable Temperature	Ÿ-40Ÿ	Ÿ-101Ÿ	Ÿ-196Ÿ	Ÿ-196Ÿ

Note: Other materials are available upon request.

AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	79	92	111	120	120	172	200
H(OPEN)	333	337	370	480	410	474	546
W	100	100	125	160	160	180	200
Weight	Bolted	5.2	7.2	10.9	13.5	15.2	19.8
	Welded	4.8	6.5	9.5	11.5	13.1	17.5

Forged Steel Extended Body Valves

SUNGO extended body valves are available in two bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/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.



Bolted Bonnet Extended Body Valve

Extended Body Valve Design Construction and Specifications

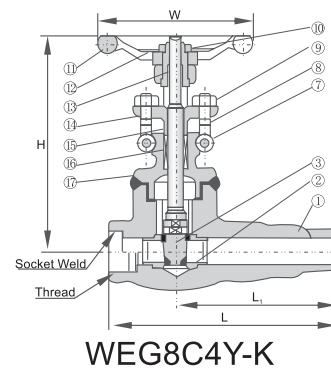
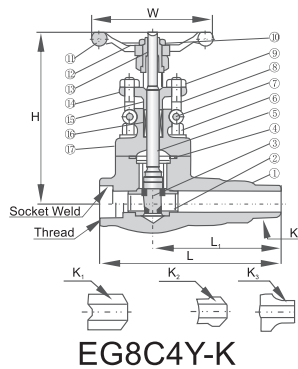
SUNGO extended body valves conform to API 602.

Each are tested according to API 598, and marking is per MSS SP-25.

Construction is as follows

- * Two piece self-aligning packing gland
- * Integral extended body with threaded, socket weld or butt weld connection
- * Bolted bonnet with spiral wound gasket or threaded and seal welded bonnet
- * Integral backseat
- * Socket weld ends to ASMB B16.11
- * Screwed Ends (NPT) to ANSI/ASMB B1.20.1
- * Outside Screw and Yoke (OS&Y)

Forged Steel Extended Body Gate Valve Class800



The Specific Connection Code

Connection Code	K	K1	K2	K3
		Screwed Weld	Inclined End	A Full Strength End

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Stem Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
5	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 420	A276 420	A276 304	A276 304
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
10	Nameplate	SS	SS	SS	SS
11	Handwheel	A197	A197	A197	A197
12	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420	A276 420	A276 420	A276 420
14	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
15	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
16	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
17	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29 \checkmark ~425 \checkmark	-29 \checkmark ~550 \checkmark	-29 \checkmark ~180 \checkmark	-29 \checkmark ~180 \checkmark

Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

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"
L1		107.5	107.5	107.5	120	127	127	152
L		147	147	153.5	175.5	187	187	222
H(OPEN)		158	158	169	197	236	246	283
W		100	100	100	125	160	160	180
Weight	Bolted	3.1	2.9	3.4	5.5	7.8	8.3	13.4
	Welded	2.8	2.6	3.1	5.1	7.4	7.6	12.1

Forged Steel Bellows Sealed Valves

SUNGO Bellows Sealed valves are available in two bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/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.



Bolted Bonnet Bellows Sealed Valve

Bellows Sealed Valve Design Construction and Specifications

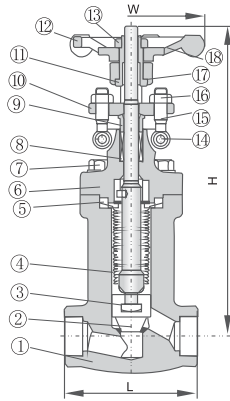
SUNGO bellows sealed valves conform to API 602, and ANSI B16.34

Each are tested according to API 598, and marking is per MSS SP-25.

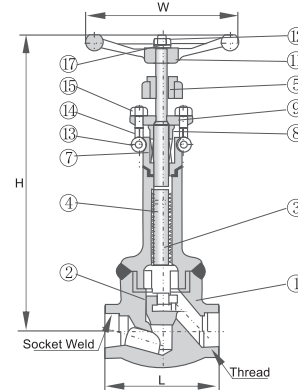
Construction is as follows

- * Two piece self-aligning packing gland
- * Bolted bonnet with spiral wound gasket or threaded and seal welded bonnet
- * Integral backseat
- * Socket weld ends to ASMB B16.11
- * Screwed Ends (NPT) to ANSI/ASMB B1.20.1
- * Outside Screw and Yoke (OS&Y)
- * Grease nipple for stem

Forged Steel Bellows Sealed Globe Valve Class800



BL8C $\frac{4}{5}$ Y



WBL8C $\frac{4}{5}$ Y

Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type F22	Type A182 F304	Type A182 F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Bellows	SS	SS	SS	SS
5	Gasket	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
9	Gland	A276 420	A276 420	A182 F304	A182 F304
10	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
11	Yoke Nut	A276 410	A276 410	A276 410	A276 410
12	Handwheel	A197	A197	A197	A197
13	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
14	Pin	A276 420	A276 420	A182 F304	A182 F304
15	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
16	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
17	Bearing Washer	SS	SS	SS	SS
18	Nameplate	SS	SS	SS	SS
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29 \checkmark ~425 \checkmark	-29 \checkmark ~550 \checkmark	-29 \checkmark ~180 \checkmark	-29 \checkmark ~180 \checkmark

Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

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
H(OPEN)		220	220	225	244	321	321	347
W		100	100	100	125	160	160	180
Weight	Bolted	3.2	3.0	4.8	7.9	11.0	16.8	25.2
	Welded	3.0	2.8	4.8	7.0	9.6	13.5	20.2

Forged Steel Integral Flanged End Valves

SUNGO integral flanged valves are available in three bonnet designs. The first design is the Bolted Bonnet, with male-female joint, spiral wound gasket, made in F304L/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 joint.

Integral Flanged end valves are available in gate, globe, piston check, and swing check design configurations.



Integral Flanged Gate Valve



Integral Flanged Globe Valve



Integral Flanged Check Valve

Integral Flanged End Valve Design Construction and Specifications

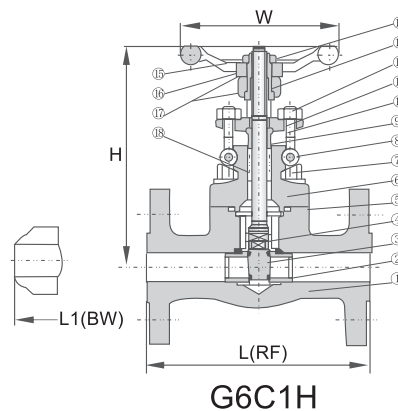
SUNGO integral flange valves conform to API 602, and ANSI B16.34

Each are tested according to API 598, and marking is per MSS SP-25.

Construction is as follows

- * Full Port and Conventional Port
- * Face to face according to ANSI B16.10
- * Flanges according to ANSI B16.5
- * Pressure seal bonnet
- * Outside Screw and Yoke(OS&Y)
- * Two piece self-aligning packing gland
- * Integral backseat
- * Integral body flanges
- * Butt Welded Ends to ASME B16.25
- * RTJ body bonnet gasket ring joint type
- * Bolted bonnet with spiral wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet

Forged Steel Integral Flanged End Gate Valve Class150~600



Standard Material Specification

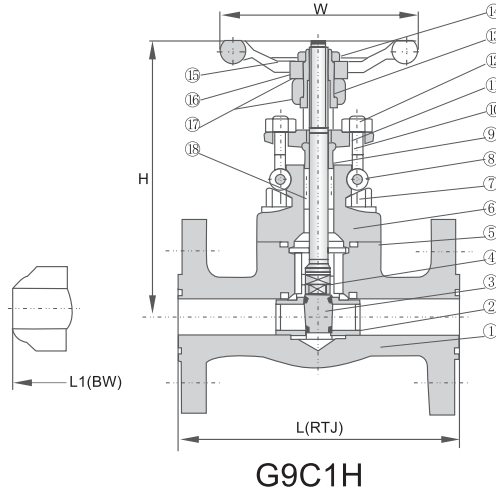
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420	A276 420	A276 304	A276 304
9	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410	A276 410	A276 410	A276 410
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS	SS	SS	SS
16	Handwheel	A197	A197	A197	A197
17	Lubricated Gasket	A473 431	A473 431	A473 431	A473 431
18	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29 \bar{Y} ~425 \bar{Y}	-29 \bar{Y} ~550 \bar{Y}	-29 \bar{Y} ~180 \bar{Y}	-29 \bar{Y} ~180 \bar{Y}

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

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
L(RF) L1(BW)	Class150	108	117	127	140	165	203	
	Class300	140	152	165	178	190	216	
	Class600	165	190	216	229	241	292	
H	Class150,300	158	169	197	236	246	283	
	Class600	169	197	236	246	283	320	
W		100	100	125	160	160	180	
Weight	Class150	RF	4.5	5.2	8.2	11.5	12.5	20.3
		BW	2.8	3.3	5.4	7.1	8.2	12.5
	Class300	RF	4.8	6.2	9.3	14	15.5	23.4
		BW	3.5	4.4	6.8	8.1	9.2	15.4
	Class600	RF	5.9	7.4	10.4	16.2	17.5	28.3
		BW	4.5	5.1	8.2	10.5	12.4	20.1

Forged Steel Integral Flanged End Gate Valve Class900,1500



Standard Material Specification

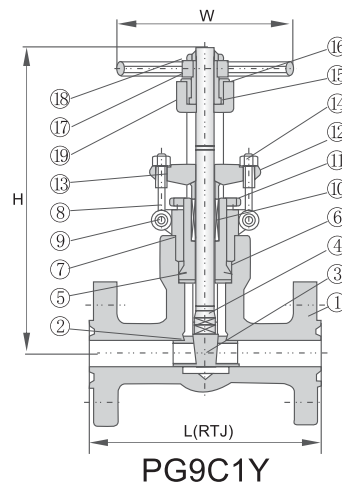
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420	A276 420	A276 304	A276 304
9	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420	A276 420	A276 420	A276 420
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS	SS	SS	SS
16	Handwheel	A197	A197	A197	A197
17	Lubricated Gasket	A473 431	A473 431	A473 431	A473 431
18	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
	Suitable Medium	W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
	Suitable Temperature	-29Ÿ~-425Ÿ	-29Ÿ~-550Ÿ	-29Ÿ~-180Ÿ	-29Ÿ~-180Ÿ

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

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/2"	1 1/4"	2"
L(RTJ)	Class900,1500	216	229	254	279	305	371
L1(BW)	Class900,1500	216	229	254	279	305	368
H(OPEN)		197	197	236	246	283	330
W		125	125	160	160	180	200
Weight	RTJ	7.2	11.5	15.6	16.2	22.6	32.8
	BW	5.2	9.3	12.4	13.8	18.9	27.5

Flanged End Pressure-seal Gate Valve Class900~2500



Standard Material Specification

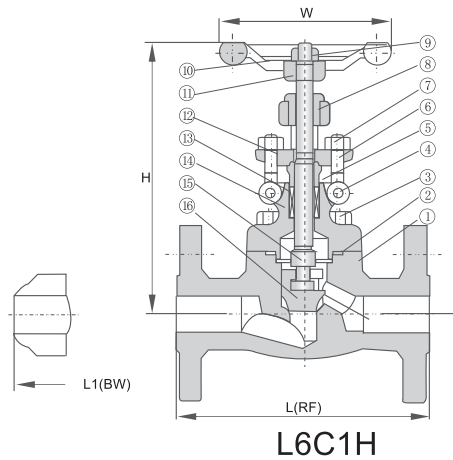
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105	A182 F304	A182 F304(L)	F316(L)
6	Pressure Ring	A276 304L	A276 304L	A276 304L	A276 316L
7	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
8	Gland eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Pin	A276 420	A276 420	A182 F304	A182 F304
10	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
11	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
12	Gland	A276 F420	A276 F420	A182 F304	A182 F304
13	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
14	Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276-410	A276-410	A276-410	A276-410
16	Retaining Nut	A194 2H	A194 4	A194 8	A194 8M
17	Handwheel	A197	A197	A197	A197
18	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
19	Oil Cup	Brass	Brass	Brass	Brass
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

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

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RTJ)	Class900,1500	216	229	254	279	305	368
	Class2500	264	273	308	349	384	451
H(OPEN)	Class900,1500	216	250	270	320	350	445
	Class2500	321	321	321	373	406	495
W		160	160	180	200	250	280
Weight	Class900,1500	19.6	21.5	25.7	37.8	48.5	99.8
	Class2500	21.5	24.7	30.4	48.1	58.1	130.0

Forged Steel Integral Flanged End Globe Valve Class150~600



Standard Material Specification

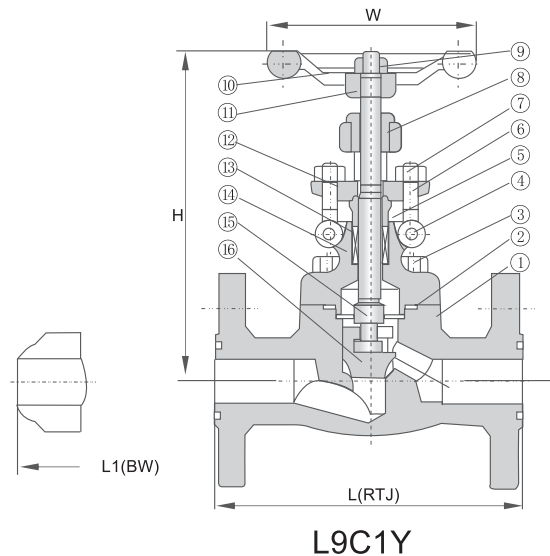
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Gasket	Corrugated SS+Graphite	Corrugated SS+Graphite	SS+PTFE	SS+PTFE
3	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
4	Pin	A276 420	A276 420	A276 304	A276 304
5	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
6	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
8	Yoke Nut	A276 410	A276 410	A276 410	A276 410
9	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
10	Nameplate	SS	SS	SS	SS
11	Handwheel	A197	A197	A197	A197
12	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
13	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
14	Bonnet	A105	A276 304	A182 F304(L)	A182 F316(L)
15	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
16	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

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

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
L(RF)	Class150	108	117	127	140	165	203	
	Class300	152	178	203	216	229	267	
L1(BW)	Class600	165	190	216	229	241	292	
	Class150,300	166	171	207	240	258	330	
H(open)	Class600	171	207	240	258	330	380	
	W	100	100	125	160	160	180	
Weight	Class150	RF	4.5	6.9	9.8	13.5	19.5	28.0
		BW	2.3	3.6	7.8	8.2	12.0	15.0
	Class300	RF	4.8	7.7	11.0	16.8	21.2	32.6
		BW	2.8	4.0	8.5	9.2	12.6	16.8
	Class600	RF	5.6	7.8	12.5	17.0	23.5	38.8
		BW	3.4	4.7	9.2	10.5	13.3	18.9

Forged Steel Integral Flanged End Globe Valve Class900,1500



Standard Material Specification

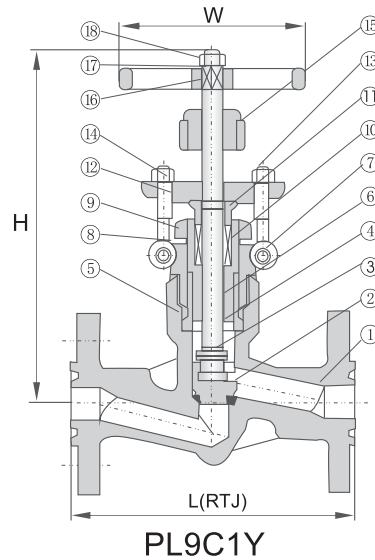
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Gasket	Corrugated SS+graphite	Corrugated SS+graphite	SS+PTFE	SS+PTFE
3	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
4	Pin	A276 420	A276 420	A276 304	A276 304
5	Gland	A276 410	A276 410	A182 F304(L)	A182 F316(L)
6	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
8	Yoke Nut	A276 410	A276 410	A276 410	A276 410
9	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
10	Nameplate	SS	SS	SS	SS
11	Handwheel	A197	A197	A197	A197
12	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
13	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
14	Bonnet	A105	A276 304	A182 F304(L)	A182 F316(L)
15	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
16	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

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

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RTJ)	Class900,1500	216	229	254	279	305	371
	Class900,1500	216	229	254	279	305	368
L1(BW)		216	229	254	279	305	368
H(OPEN)		207	207	240	258	330	355
W		125	125	160	160	180	200
Weight	RTJ	8.0	13.2	17.4	19.0	24.5	31.0
	BW	5.2	10.0	14.6	15.8	20.5	27.8

Forged Steel Integral Flanged End Pressure-seal Globe Valve Class900~2500



Standard Material Specification

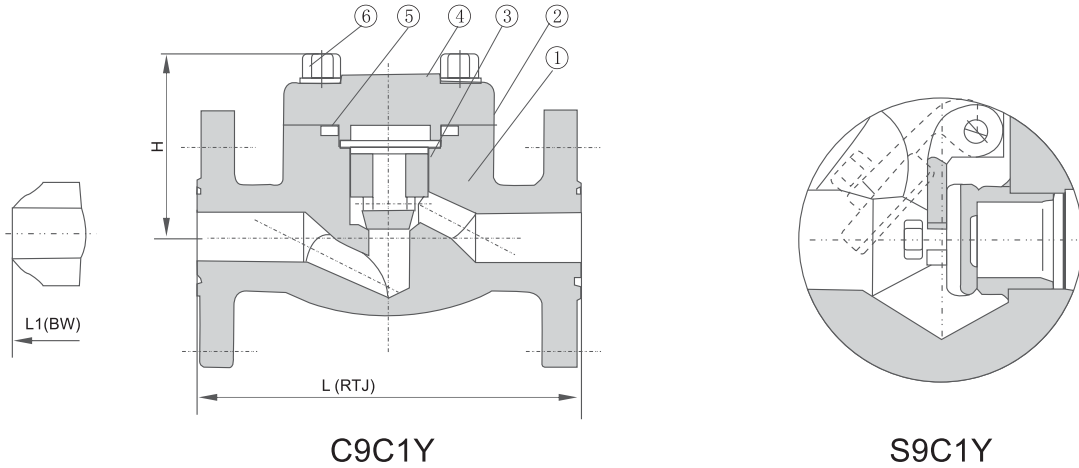
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	SS to ASTM
		Type A105	Type A182 F22	Type A182 F304(L)	Type A182 F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Ring	A182 F304L	A182 F304L	A182 F304L	A182 F316L
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Pin	A276 420	A276 420	A182 F304	A182 F304
8	P.S. Washer	A105	A182 F22	A182 F304(L)	A182 F316(L)
9	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
10	Stem Packing	Flexible Graphite	Flexible Graphite	PTFE	PTFE
11	Gland	A276 420	A276 420	A182 F304	A182 F304
12	Gland Flange	A216 WCB	A216 WCB	A351 CF8	A351 CF8
13	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 410	A276 410	A276 410	A276 410
16	Handwheel	A197	A197	A197	A197
17	Nameplate	SS	SS	SS	SS
18	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

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

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RTJ)	Class900,1500	216	229	254	279	305	368
	Class2500	264	273	308	349	384	451
H(OPEN)	Class900,1500	318	318	318	398	408	524
	Class2500	333	333	333	410	420	524
W		160	160	180	200	250	280
Weight	Class900,1500	15.5	16.9	18.9	28.9	34.3	52.8
	Class2500	18.0	20.5	23.0	36.1	45.0	81.5

Forged Steel Integral Flanged End Check Valve Class900,1500



Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
3	Piston Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
4	Nameplate	SS	SS	SS	SS
5	Gasket	Corrugated SS+graphite	Corrugated SS+graphite	Corrugated SS+graphite	Corrugated SS+graphite
6	Bolt	A193 B7	A193 B16	A193 B8(M)	A193 B8(M)
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~200Ÿ	-29Ÿ~200Ÿ

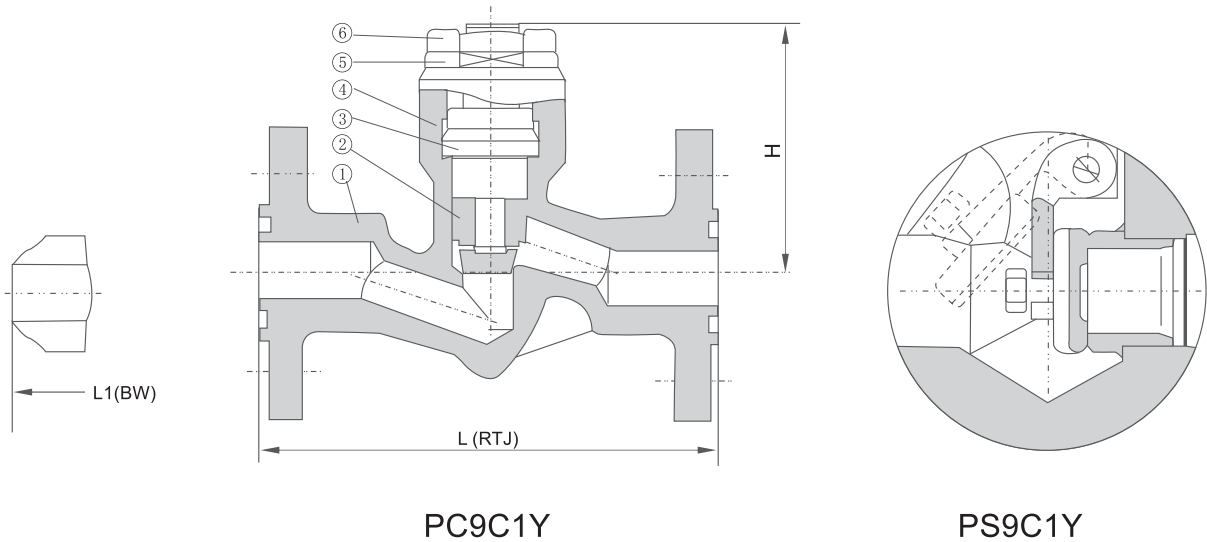
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RTJ)	216	229	254	279	305	371
L1(BW)	216	229	254	279	305	368
H	79	79	95	104	120	139
Weight	RTJ	8.5	10.5	15.7	20.8	33.0
	BW	6.4	8.0	13.2	17.8	29.7

Forged Steel Integral Flanged End Pressur-seal Piston Check Valve Class900~2500



Standard Material Specification

No.	Part Name	CS to ASTM	AS to ASTM	SS 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	Pressure Seat	A105	F22	A182 F304(L)	F316(L)
4	Pressure Ring	A276 304L	A276 304L	A276 304L	A276 316(L)
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		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	HNO ₃ ,CH ₃ OOH etc
Suitable Temperature		-29Ÿ~425Ÿ	-29Ÿ~550Ÿ	-29Ÿ~180Ÿ	-29Ÿ~180Ÿ

Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel.

Dimension (mm) and Weight (kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RTJ)	Class900,1500	216	229	254	279	305	368
	Class2500	264	273	308	349	384	451
H	Class900,1500	117	117	117	152	152	195
	Class2500	117	117	117	152	152	195
Weight	Class900,1500	10.5	11.9	13.9	19.9	26.9	32.5
	Class2500	12.6	14.9	16.5	24.8	30.0	35.0