



POWELL
VALVES

Dependable Valves Since 1846



FORGED
STEEL VALVES

**THE WM. POWELL COMPANY
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January 1st, 2002

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Powell Forged Valve Coding System

Digit

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Size	Space	Type	Pressure Class	Ends	Material	Trim	P&G	Bonnet						
1	0	0	0	8	A	A	5	G	B					

Type	Pressure Class	Ends	Material	Trim
GA	Conventional Port 150#	T Threaded	A105	API Trim 10
GL	Special Port 150#	S Socketweld	A182 304	API Trim 1
PC	Conventional Port 300#	X Th X Sw	A182 316	API Trim 12
	Special Port 300#	F Flanged	A182 321	API Trim 13
BC	Conventional Port 600#	R Ring Joint	A182 347	API Trim 5
	Special Port 600#	Y Inlet Th X Outlet Sw	A182 304H	API Trim 16
SW	Conventional Port 800#	Z Inlet Sw X Outlet Th	A182 304L	API Trim 8
GY	Special Port 800#	A Sw X Ext Sw ^[1]	A182 316L	API Trim 9
AN	Conventional Port 1500#	B Sw X Ext Sw ^[1]	A350-LF2	Base Metal w/ Half Hard Facing
BG	Special Port 1500#	D Th X Ext Sw ^[1]	ALLOY 20	Base Metal w/ Full Hard Facing
BL	2500#	E Th X Ext Th ^[1]	Alloy N04400	Hard Facing
YL	4500#	K Th X Ext WOL ^[1]	A182 F11	Base Metal
IG		P Sw X Ext WOL ^[1]	A182 F22	API Trim 11
IL			A182 F44	API Trim 2
			A182 F5	API Trim 8 (NACE) ^[2]
			A182 F51	
			A182 F53	
			A182 F55	
			A182 F9	
			A182 F91	
			Hastelloy B2	
			Hastelloy C276	
			Incoloy 800H	
			Incoloy 825	
			Inconel 600	
			Inconel 625	
			A182 317	
			A182 317L	
			A182 F60 (2205)	

Type	Pressure Class	Ends	Material	Trim
01	Conventional Port 150#	T Threaded	A105	API Trim 10
L1	Special Port 150#	S Socketweld	A182 304	API Trim 1
03	Conventional Port 300#	X Th X Sw	A182 316	API Trim 12
L3	Special Port 300#	F Flanged	A182 321	API Trim 13
06	Conventional Port 600#	R Ring Joint	A182 347	API Trim 5
L6	Special Port 600#	Y Inlet Th X Outlet Sw	A182 304H	API Trim 16
08	Conventional Port 800#	Z Inlet Sw X Outlet Th	A182 304L	API Trim 8
L8	Special Port 800#	A Sw X Ext Sw ^[1]	A182 316L	API Trim 9
15	Conventional Port 1500#	B Sw X Ext Sw ^[1]	A350-LF2	Base Metal w/ Half Hard Facing
L5	Special Port 1500#	D Th X Ext Sw ^[1]	ALLOY 20	Base Metal w/ Full Hard Facing
25	2500#	E Th X Ext Th ^[1]	Alloy N04400	Hard Facing
45	4500#	K Th X Ext WOL ^[1]	A182 F11	Base Metal
		P Sw X Ext WOL ^[1]	A182 F22	API Trim 11
			A182 F44	API Trim 2
			A182 F5	API Trim 8 (NACE) ^[2]
			A182 F51	
			A182 F53	
			A182 F55	
			A182 F9	
			A182 F91	
			Hastelloy B2	
			Hastelloy C276	
			Incoloy 800H	
			Incoloy 825	
			Inconel 600	
			Inconel 625	
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L1	Special Port 150#	S Socketweld	A182 304	API Trim 1
03	Conventional Port 300#	X Th X Sw	A182 316	API Trim 12
L3	Special Port 300#	F Flanged	A182 321	API Trim 13
06	Conventional Port 600#	R Ring Joint	A182 347	API Trim 5
L6	Special Port 600#	Y Inlet Th X Outlet Sw	A182 304H	API Trim 16
08	Conventional Port 800#	Z Inlet Sw X Outlet Th	A182 304L	API Trim 8
L8	Special Port 800#	A Sw X Ext Sw ^[1]	A182 316L	API Trim 9
15	Conventional Port 1500#	B Sw X Ext Sw ^[1]	A350-LF2	Base Metal w/ Half Hard Facing
L5	Special Port 1500#	D Th X Ext Sw ^[1]	ALLOY 20	Base Metal w/ Full Hard Facing
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45	4500#	K Th X Ext WOL ^[1]	A182 F11	Base Metal
		P Sw X Ext WOL ^[1]	A182 F22	API Trim 11
			A182 F44	API Trim 2
			A182 F5	API Trim 8 (NACE) ^[2]
			A182 F51	
			A182 F53	
			A182 F55	
			A182 F9	
			A182 F91	
			Hastelloy B2	
			Hastelloy C276	
			Incoloy 800H	
			Incoloy 825	
			Inconel 600	
			Inconel 625	
			A182 317	
			A182 317L	
			A182 F60 (2205)	

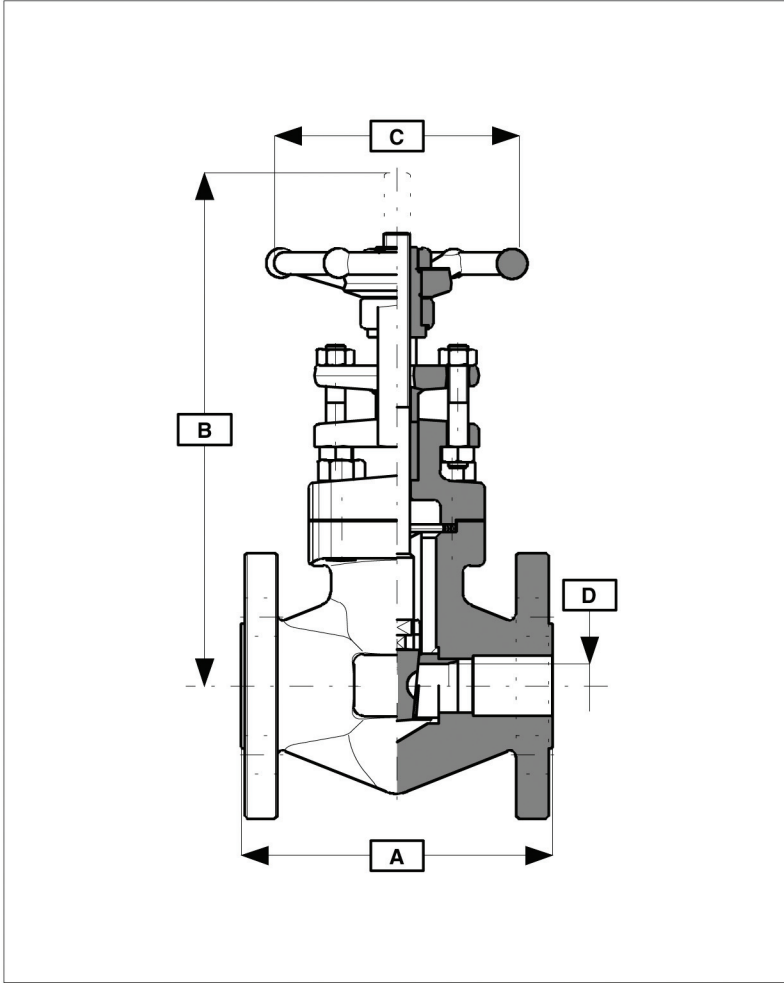
Type	Pressure Class	Ends	Material	Trim
01	Conventional Port 150#	T Threaded	A105	API Trim 10
L1	Special Port 150#	S Socketweld	A182 304	API Trim 1
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L3	Special Port 300#	F Flanged	A182 321	API Trim 13
06	Conventional Port 600#	R Ring Joint	A182 347	API Trim 5
L6	Special Port 600#	Y Inlet Th X Outlet Sw	A182 304H	API Trim 16
08	Conventional Port 800#	Z Inlet Sw X Outlet Th	A182 304L	API Trim 8
L8	Special Port 800#	A Sw X Ext Sw ^[1]	A182 316L	API Trim 9
15	Conventional Port 1500#	B Sw X Ext Sw ^[1]	A350-LF2	Base Metal w/ Half Hard Facing
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45	4500#	K Th X Ext WOL ^[1]	A182 F11	Base Metal
		P Sw X Ext WOL ^[1]	A182 F22	API Trim 11
			A182 F44	API Trim 2
			A182 F5	API Trim 8 (NACE) ^[2]
			A182 F51	
			A182 F53	
			A182 F55	
			A182 F9	
			A182 F91	
			Hastelloy B2	
			Hastelloy C276	
			Incoloy 800H	
			Incoloy 825	
			Inconel 600	
			Inconel 625	
			A182 317	
			A182 317L	
			A182 F60 (2205)	

Type	Pressure Class	Ends	Material	Trim
01	Conventional Port 150#	T Threaded	A105	API Trim 10
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L8	Special Port 800#	A Sw X Ext Sw ^[1]	A182 316L	API Trim 9
15	Conventional Port 1500#	B Sw X Ext Sw ^[1]	A350-LF2	Base Metal w/ Half Hard Facing
L5	Special Port 1500#	D Th X Ext Sw ^[1]	ALLOY 20	Base Metal w/ Full Hard Facing
25	2500#	E Th X Ext Th ^[1]	Alloy N04400	Hard Facing
45	4500#	K Th X Ext WOL ^[1]	A182 F11	Base Metal
		P Sw X Ext WOL ^[1]	A182 F22	API Trim 11
			A182 F44	API Trim 2
			A182 F5	API Trim 8 (NACE) ^[2]
			A182 F51	
			A182 F53	
			A182 F55	
			A182 F9	
			A182 F91	
			Hastelloy B2	
			Hastelloy C276	
			Incoloy 800H	
			Incoloy 825	
			Inconel 600	
			Inconel 625	
			A182 317	
			A182 317L	
			A182 F60 (2205)	

Packing & Gasket	Bonnet And Bolting
G	Welded Bonnet
T	Bolted Bonnet Std. Bolting
S	Bolted Bonnet w/A193 B8M Cl.2 and A194 8M
X	Bolted Bonnet w/A193 B8 Cl.2 and A194 8
	Bolted Bonnet A193 B8M and A194 8M
	Bolted Bonnet w/ A193 B7M and A194 2HM (NACE) ^[2]
	Std. Extended Bolted Bonnet, Std. Bolting, Clean for Oxygen
	Std. Extended Welded Bonnet, Clean for Oxygen
	Welded Bonnet, Clean for Oxygen
	Welded Bonnet, Lantern Ring
	Welded Bonnet (NACE) ^[2]
	Bolted Bonnet A193 B8 and A194 8 (NACE) ^[2]
	Ring Joint Bonnet.

Packing & Gasket	Bonnet And Bolting
G	Welded Bonnet
T	Bolted Bonnet Std. Bolting
S	Bolted Bonnet w/A193 B8M Cl.2 and A194 8M
X	Bolted Bonnet w/A193 B8 Cl.2 and A194 8
	Bolted Bonnet A193 B8M and A194 8M
	Bolted Bonnet w/ A193 B7M and A194 2HM (NACE) ^[2]
	Std. Extended Bolted Bonnet, Std. Bolting, Clean for Oxygen
	Std. Extended Welded Bonnet, Clean for Oxygen
	Welded Bonnet, Clean for Oxygen
	Welded Bonnet, Lantern Ring
	Welded Bonnet (NACE) ^[2]
	Bolted Bonnet A193 B8 and A194 8 (NACE) ^[2]
	Ring Joint Bonnet.

1. Only To be Used For Gate Valves.
2. API Trim 10 or 12 can also be used for NACE service valves if Bonnet And Bolting codes N, K, or M are Selected. Make Sure to select A NACE Bonnet and Bolting Designation if a NACE valve is required.



Ratings (ASTM A105)

150 p.s.i. @ 550°F
285 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 450 p.s.i.
Seat - 325 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Flanged ASME B16.5, ASME B16.10
Test API 598-BS 6755 (Pt.1)

Connections

F Raised face (std.)

Typical Figure Number: GA01FA58GB - A105, Flanged, Trim 8

CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/2"		2"	
A (mm/in)		107.9	4.25	117.5	4.63	127.0	5.00	165.1	6.50	177.8	7.00
B (mm/in)		179	7.05	186	7.32	208	8.19	255	10.04	273	10.75
C (mm/in)		90	3.54	90	3.54	100	3.94	140	5.51	140	5.51
D (mm/in)		10	0.39	14	0.55	18	0.71	31	1.22	36.5	1.44
Wt. (kg/lb)		3.2	7.0	4.1	9.0	5.8	12.8	10	22.0	13.1	28.8

SPECIAL PORT											
		1/2"		3/4"		1"		1-1/2"		2"	
A (mm/in)		107.9	4.25	117.5	4.63	127.0	5.00	165.1	6.50	177.8	7.00
B (mm/in)		183	7.20	191	7.52	216	8.50	273	10.75	314	12.36
C (mm/in)		90	3.54	90	3.54	100	3.94	140	5.51	200	7.87
D (mm/in)		14	0.55	18	0.71	24	0.94	36.5	1.44	48	1.89
Wt. (kg/lb)		3.1	6.8	4	8.8	5.7	12.5	12.6	27.7	15.8	34.8

Figure Number Definitions - See page 4

Ratings (ASTM A105)

300 p.s.i. @ 850°F
740 p.s.i. @ 100°F

Test pressure (ASTM A105)

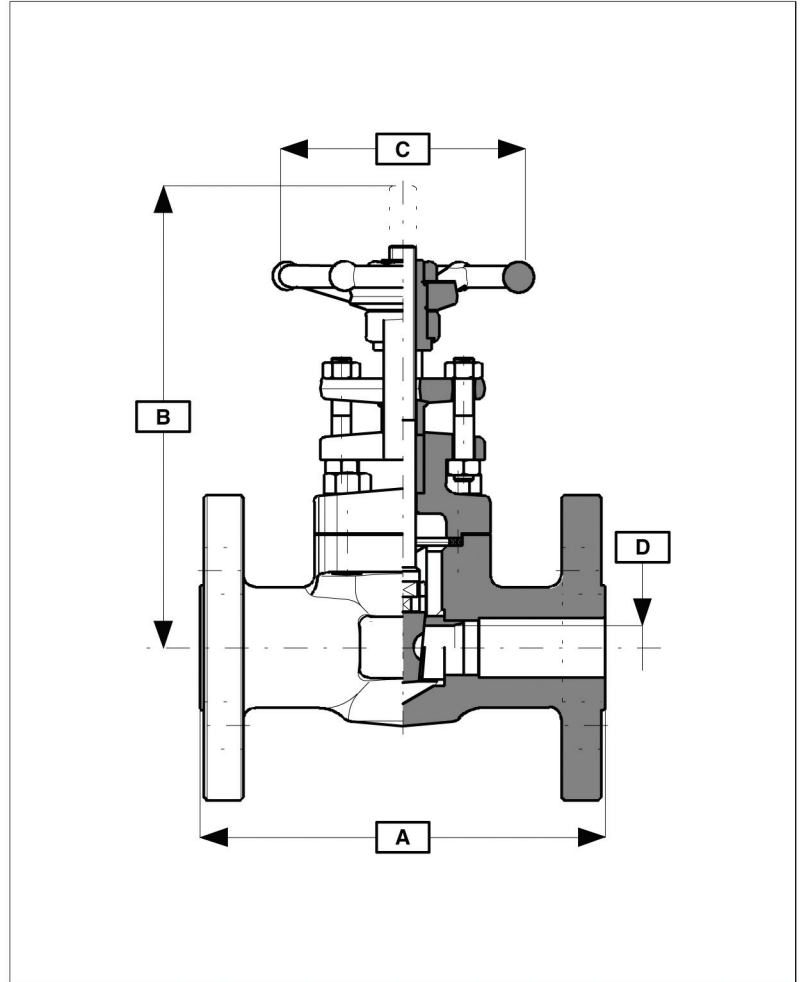
Hydrostatic: (minimum)
Body - 1125 p.s.i.
Seat - 825 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Flanged ASME B16.5, ASME B16.10
Test API 598-BS 6755 (Pt.1)

Connections

F Raised face (std.)

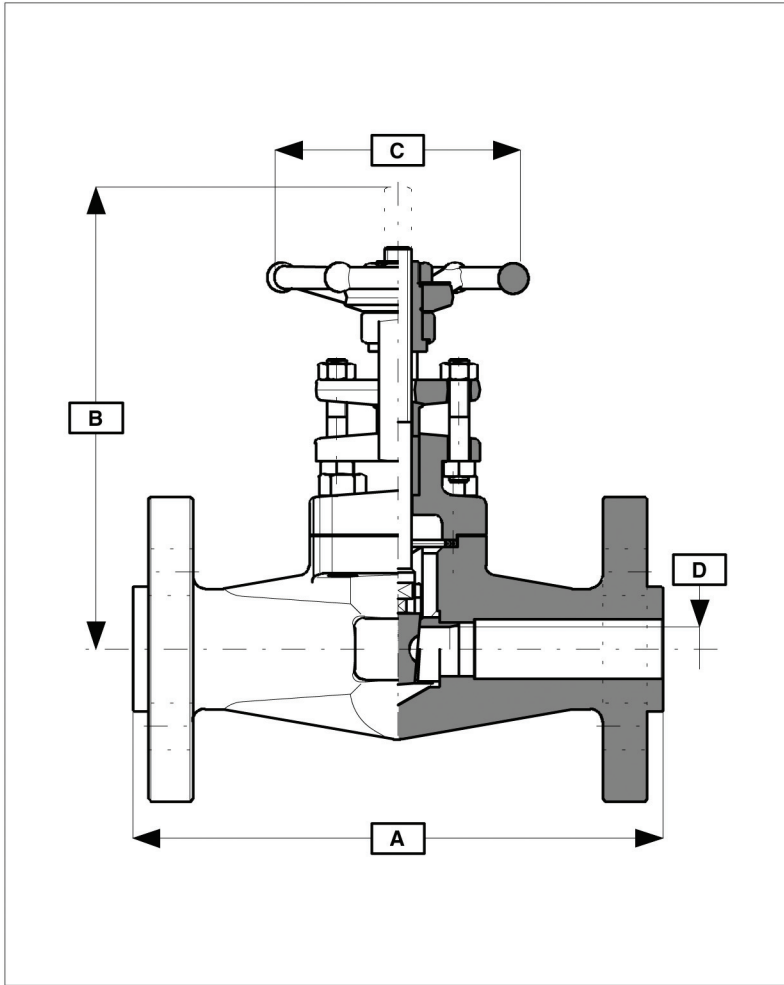


Typical Figure Number: GA03FA58GB - A105, Flanged, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/2"		2"			
A	(mm/in)	139.7	5.50	152.4	6.00	165.1	6.50	190.5	7.50	215.9	8.50		
B	(mm/in)	145	5.71	156	6.14	186	7.32	255	10.04	273	10.75		
C	(mm/in)	90	3.54	90	3.54	100	3.94	140	5.51	140	5.51		
D	(mm/in)	10	0.39	14	0.55	18	0.71	31	1.22	36.5	1.44		
Wt.	(kg/lb)	3.8	8.4	5.4	11.9	6.5	14.3	13.1	28.8	17.3	38.1		

		SPECIAL PORT											
		1/2"		3/4"		1"		1-1/2"		2"			
A	(mm/in)	139.7	5.50	152.4	6.00	165.1	6.5	190.5	7.50	215.9	8.50		
B	(mm/in)	193	7.60	190	7.48	216	8.50	273	10.75	314	12.36		
C	(mm/in)	90	3.54	100	3.94	120	4.72	140	5.51	200	7.87		
D	(mm/in)	14	0.55	18	0.71	24	0.94	36.5	1.44	48	1.89		
Wt.	(kg/lb)	4.5	9.9	6.0	13.2	7.6	16.7	14.0	32.6	18.8	41.4		

Figure Number Definitions - See page 4



Ratings (ASTM A105)

600 p.s.i. @ 850°F
1480 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 2225 p.s.i.
Seat - 1650 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Flanged ASME B16.5, ASME B16.10
Test API 598-BS 6755 (Pt.1)

Connections

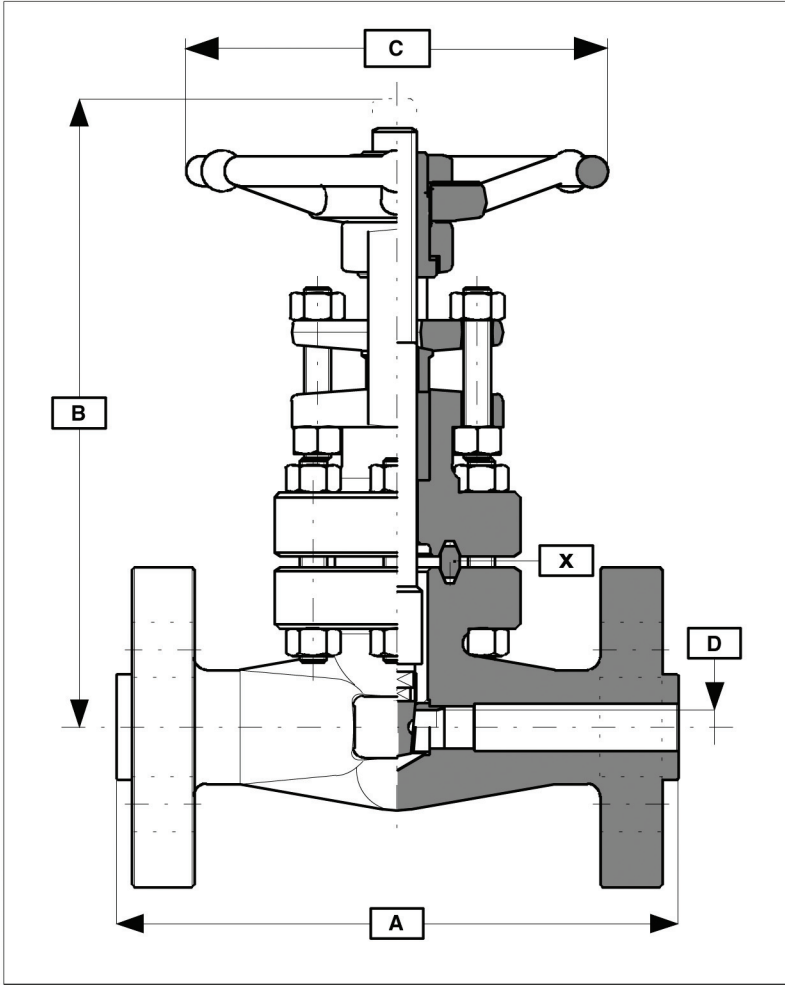
F Raised face (std.)
R Ring joint

Typical Figure Number: GA06FA58GB - A105, Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	165.1	6.50	190.5	7.50	215.9	8.50	241.3	9.50	292.1	11.50
B	(mm/in)	145	5.71	156	6.14	186	7.32	255	10.04	273	10.75
C	(mm/in)	90	3.54	90	3.54	100	3.94	140	5.51	140	5.51
D	(mm/in)	10	0.39	14	0.55	18	0.71	31	1.22	36.5	1.44
Wt.	(kg/lb)	3.5	7.7	5.8	12.8	7.4	16.3	14.3	31.5	18.8	41.4

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	165.1	6.50	190.5	7.50	215.9	8.50	241.3	9.50	292.1	11.50
B	(mm/in)	176	6.93	206	8.11	216	8.50	255	10.04	334	13.15
C	(mm/in)	90	3.54	100	3.94	120	4.72	140	5.51	200	7.87
D	(mm/in)	14	0.55	18	0.71	24	0.94	34	1.34	48	1.89
Wt.	(kg/lb)	3.9	8.6	7.0	15.4	10.3	22.7	16.5	36.3	25.0	55.0

Figure Number Definitions - See page 4



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction API 602-BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)
R Ring joint

X) Gasket=Spiral wound Std. RJ gasket available on request.

Typical Figure Number: GA15FA58GB - A105, RF Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	215.9	8.50	228.6	9.00	254.0	10.00	304.8	12.00	368.3	14.50
B	(mm/in)	212	8.35	256	10.08	272	10.71	411	16.18	422	16.61
C	(mm/in)	120	4.72	175	6.89	175	6.89	260	10.24	260	10.24
D	(mm/in)	11.5	0.45	15	0.59	19.5	0.77	32	1.26	40	1.57
Wt.	(kg/lb)	9.7	21.3	15.5	34.1	17.5	38.5	38.5	84.7	56.0	123.2

Figure Number Definitions - See page 4

Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

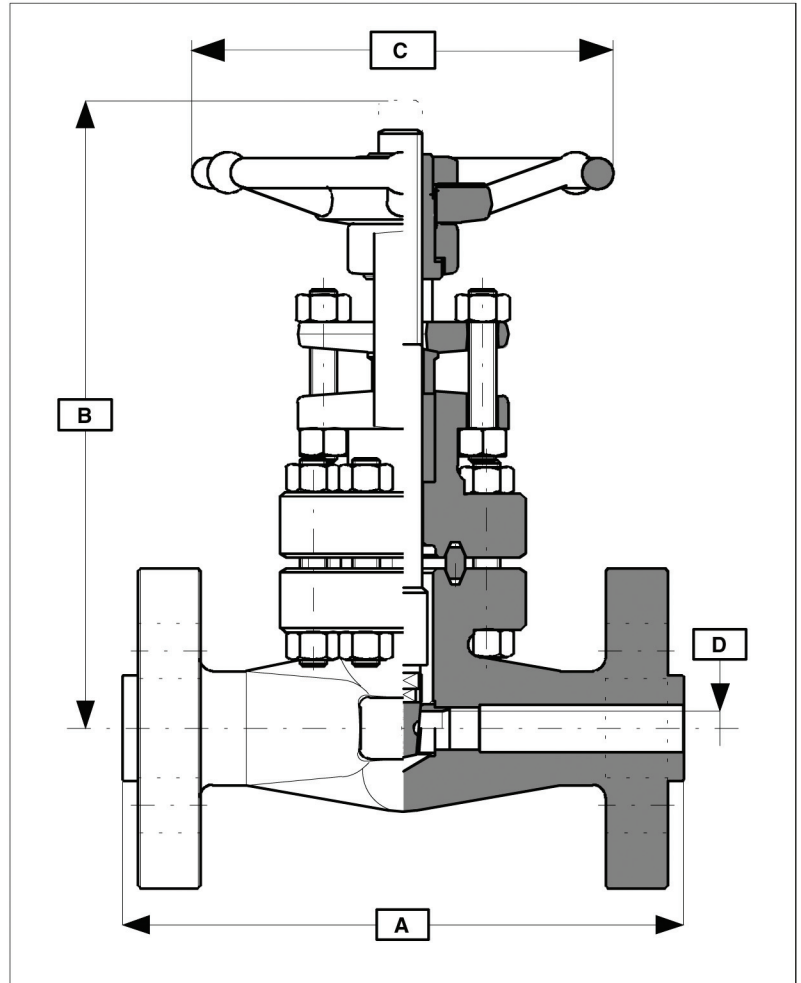
Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Flanged ASME B16.5, ASME B16.10
Test API 598-ASME B16.34

Connections

F Raised face (std.)
R Ring joint



Typical Figure Number: GA25FA58GB - A105, RF Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	263.5	10.37	273.0	10.75	308.0	12.13	384.2	15.13	450.8	17.75
B	(mm/in)	212	8.35	256	10.08	272	10.71	411	16.18	422	16.61
C	(mm/in)	140	5.51	200	7.87	200	7.87	260	10.24	350	13.77
D	(mm/in)	10	0.39	14	0.55	18	0.71	31	12.21	36.5	1.44
Wt.	(kg/lb)	9.9	21.8	15.8	34.8	17.9	39.4	39.1	86.3	56.8	125.0

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

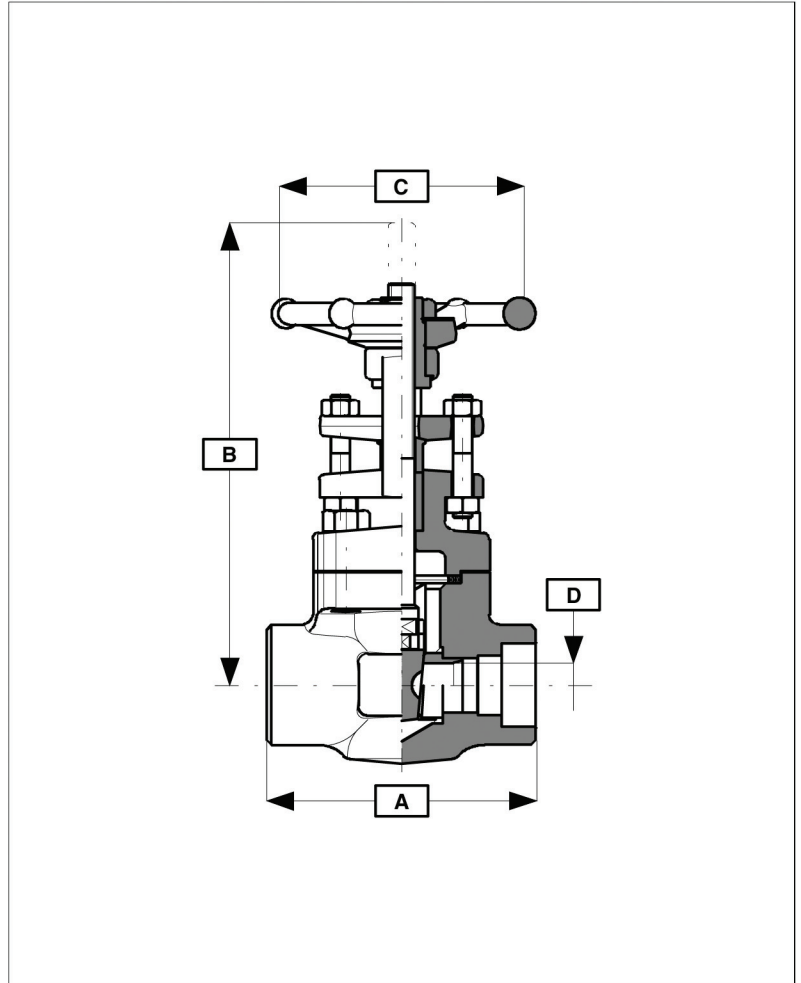
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GA08SA58GB - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT							
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		
A (mm/in)		80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12		
B (mm/in)		145 5.70	156 6.14	186 7.32	216 8.50	255 10.04	273 10.75		
C (mm/in)		90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51		
D (mm/in)		10 0.39	14 0.55	18 0.71	24 0.95	31 1.22	36.5 1.44		
Wt. (kg/lb)		1.7 3.74	2.1 4.62	3.3 7.3	5.2 11.4	7.0 15.4	9.1 20.0		

		SPECIAL PORT							
		1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A (mm/in)		80 3.15	80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12	150 5.91
B (mm/in)		143 5.63	145 5.71	156 6.14	186 7.32	216 8.50	255 10.04	273 10.75	334 13.15
C (mm/in)		90 3.54	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	200 7.87
D (mm/in)		8.5 0.33	10 0.39	14 0.55	18 0.71	24 0.94	31 1.22	36.5 1.44	48 1.89
Wt. (kg/lb)		1.8 4.0	1.8 4.0	2.2 4.8	3.4 7.5	5.3 11.7	7.1 15.6	9.2 20.2	14.2 31.2

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

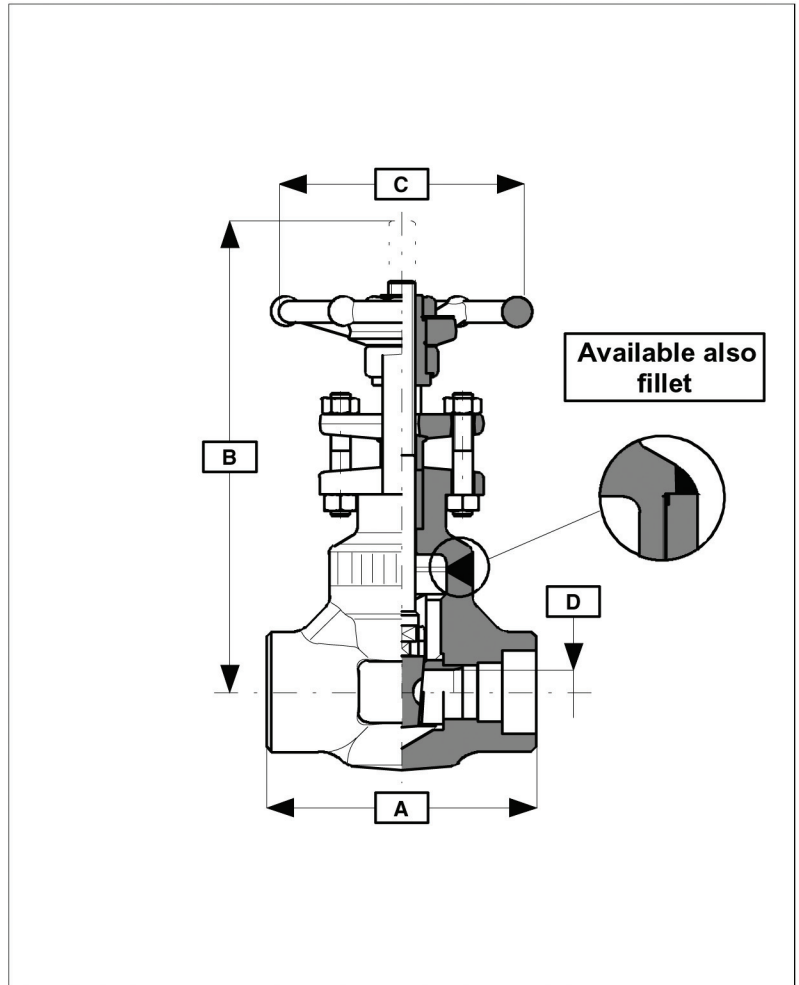
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld
T Threaded NPT
X Sw/NPT

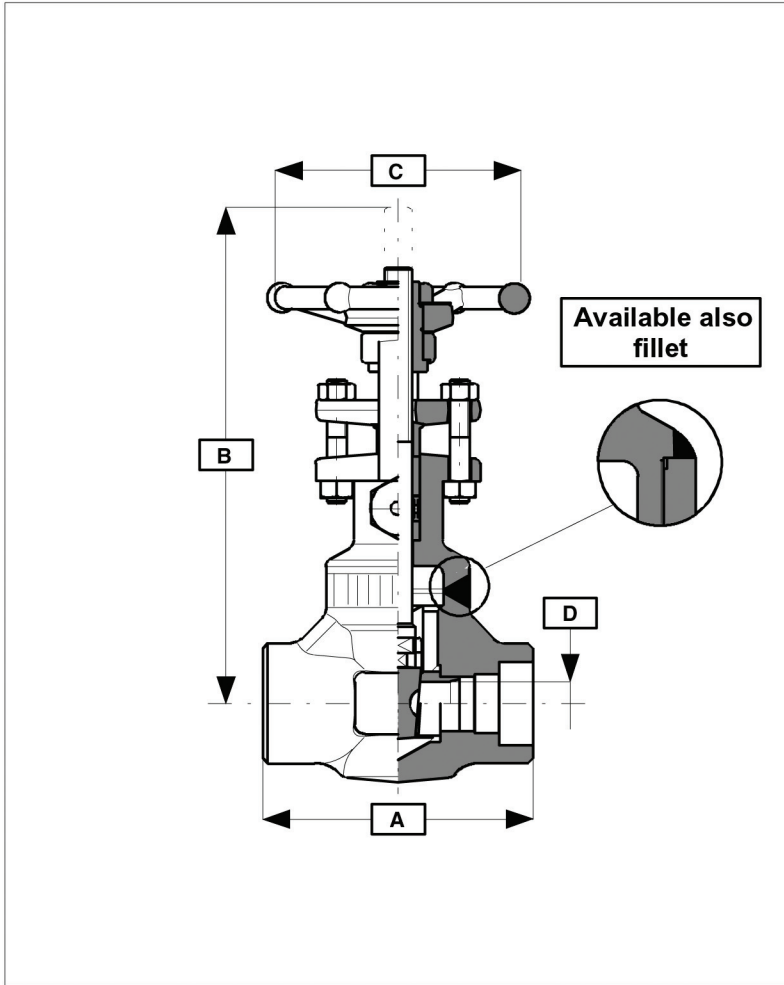


Typical Figure Number: GA08SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT							
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		
A	(mm/in)	80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12		
B	(mm/in)	150 5.91	157 6.18	188 7.40	220 8.66	248 9.76	274 10.79		
C	(mm/in)	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51		
D	(mm/in)	10 0.39	14 0.55	18 0.71	24 0.94	31 1.22	36.5 1.44		
Wt.	(kg/lb)	1.4 3.1	1.7 3.7	2.8 6.2	4.4 9.7	5.6 12.3	7.6 16.7		

		SPECIAL PORT							
		1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	(mm/in)	80 3.15	80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12	150 5.91
B	(mm/in)	150 5.91	150 5.91	157 6.18	188 7.40	220 8.66	248 9.76	274 10.79	334 13.15
C	(mm/in)	90 3.54	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	200 7.87
D	(mm/in)	8.5 0.33	10 0.39	14 0.55	18 0.71	24 0.94	31 1.22	36.5 1.44	48 1.9
Wt.	(kg/lb)	1.5 3.3	1.5 3.3	1.8 4.0	2.9 6.4	4.5 9.9	5.7 12.5	7.7 16.9	12.2 26.8

Figure Number Definitions - See page 4



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: GA08SA58GL - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12
B	(mm/in)	164	6.46	171	6.73	204	8.03	240	9.45	268	10.55	296	11.65
C	(mm/in)	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D	(mm/in)	10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44
Wt.	(kg/lb)	1.6	3.5	1.9	4.2	3.1	6.8	4.2	9.24	6.1	13.4	8.2	18.0

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

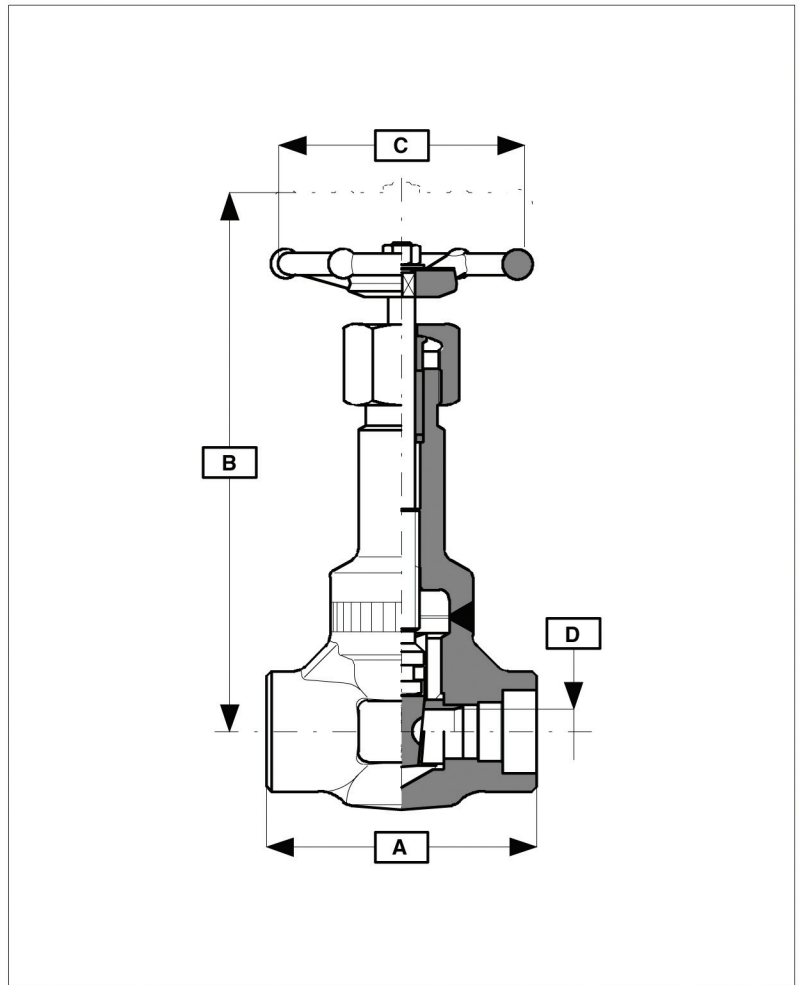
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

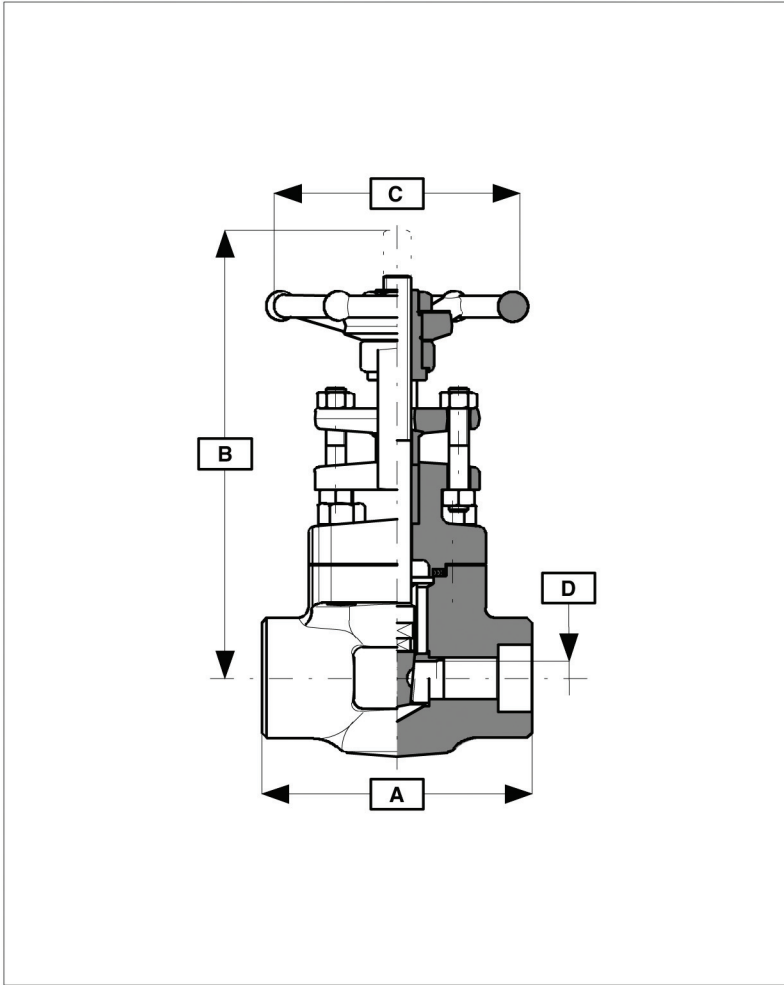
S Socket weld(SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: IG08SL62GW - Type316L, Socket Weld, Trim 12

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12
B	(mm/in)	158	6.22	183	7.20	201	7.91	255	10.03	276	10.87	310	12.21
C	(mm/in)	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D	(mm/in)	10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44
Wt.	(kg/lb)	1.5	3.3	1.9	4.2	3.2	7.0	4.9	10.8	6.2	13.6	8.4	18.5

Figure Number Definitions - See page 4



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic:(minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598

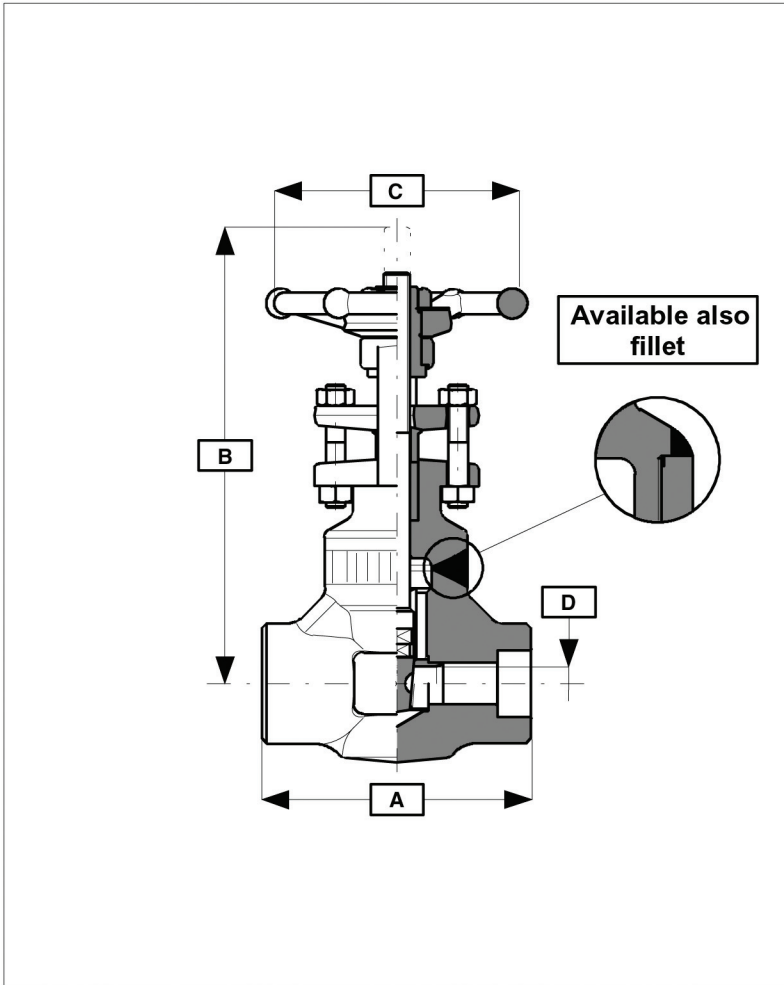
Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: GA15SA58GB - A105, Socket Weld, Trim 8

CONVENTIONAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12	150	5.91
B (mm/in)	163	6.42	163	6.42	163	6.42	180	7.09	212	8.35	245	9.65	266	10.47	318	12.52
C (mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D (mm/in)	8.5	0.33	8.5	0.33	10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44
Wt. (kg/lb)	2.3	5.1	2.3	5.1	2.3	5.1	3.7	8.1	5.4	11.9	7.4	16.3	9.6	21.1	15.1	33.2

Figure Number Definitions - See page 4



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: GA15SA58GW - A105, Socket Weld, Trim 8

CONVENTIONAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
(mm/in)	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12	150	5.91
(mm/in)	170	6.69	170	6.69	170	6.69	183	7.20	219	8.62	247	9.72	274	10.79	331	13.03
(mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
(mm/in)	8.5	0.33	8.5	0.33	10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44
Wt. (kg/lb)	2.2	4.8	2.2	4.8	2.2	4.8	3.3	7.3	5.0	11.0	6.4	14.1	8.7	19.1	13.6	29.9

Figure Number Definitions - See page 4

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

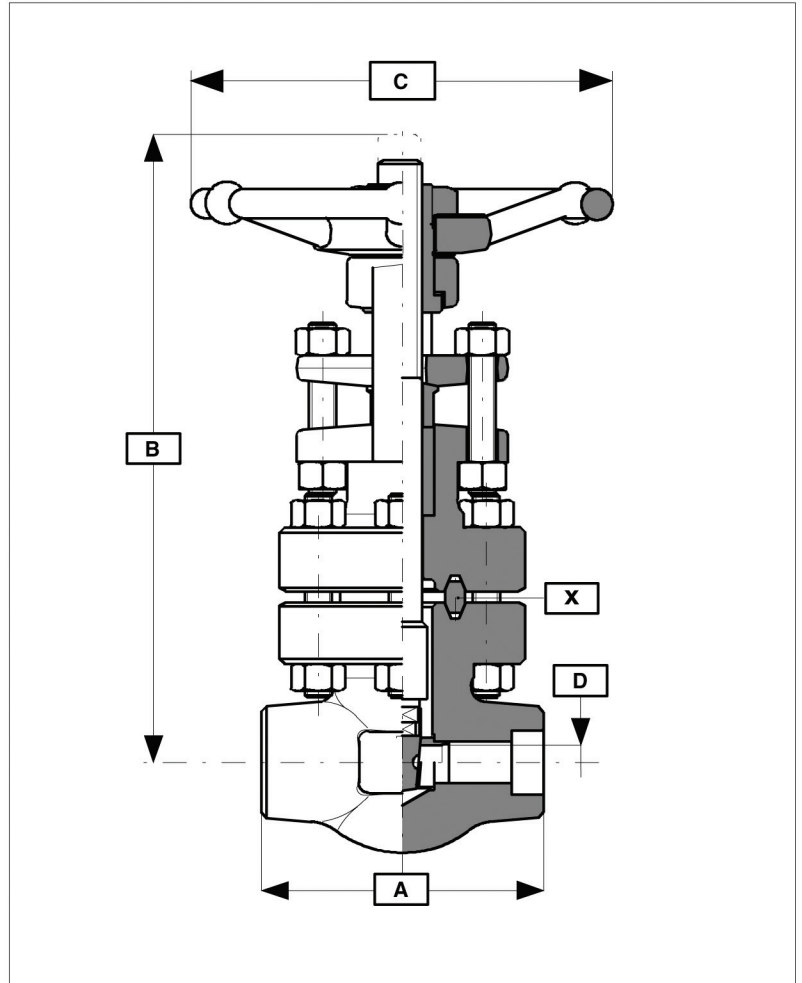
Seat - 85 p.s.i.

Standards

Construction API 602-BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



X) Gasket=Spiral wound Std. RJ gasket available on request.

Typical Figure Number: GAL5SA58GB - A105, Socket Weld, Trim 8

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	110	4.33	115	4.53	130	5.12	210	8.27	240	9.45
B	(mm/in)	212	8.35	256	10.09	272	10.79	411	16.18	422	16.6
C	(mm/in)	120	4.72	175	6.89	175	6.89	260	10.24	260	10.24
D	(mm/in)	11.5	0.45	15	0.59	19.5	0.77	32	1.26	40	1.57
Wt.	(kg/lb)	5.9	13.0	8.4	18.5	9.8	21.6	26.8	59.0	35.4	77.9

Figure Number Definitions - See page 4

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

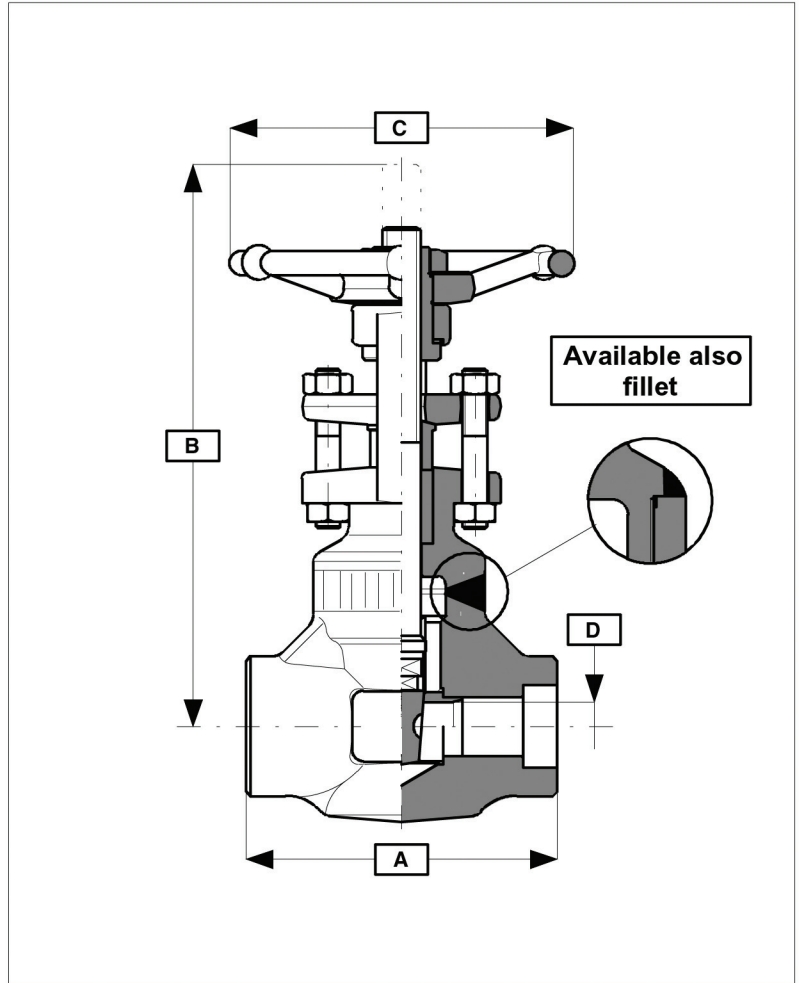
Seat - 85 p.s.i.

Standards

Construction API 602-BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

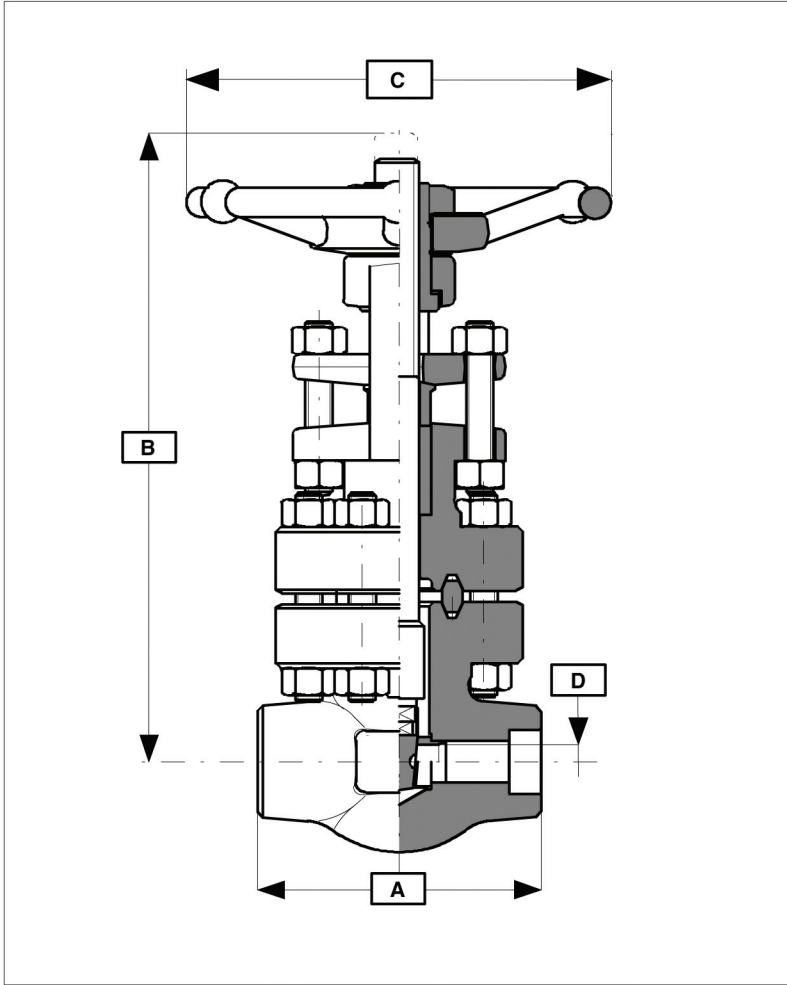
S Socket weld (SW)
T threaded NPT
X SW-x-NPT



Typical Figure Number: GAL5SA58GW - A105, Socket Weld, Trim 8

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	90	3.54	110	4.33	127	5.00	130	5.12	150	5.90
B	(mm/in)	175	6.88	217	8.54	234	9.54	295	11.61	375	14.76
C	(mm/in)	120	4.72	175	6.89	175	6.89	200	7.87	260	10.24
D	(mm/in)	11.5	0.45	15	0.59	19.5	0.77	32	1.26	40	1.57
Wt.	(kg/lb)	2.0	4.4	3.2	7.0	4.9	10.8	8.5	18.7	15	33

Figure Number Definitions - See page 4



Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

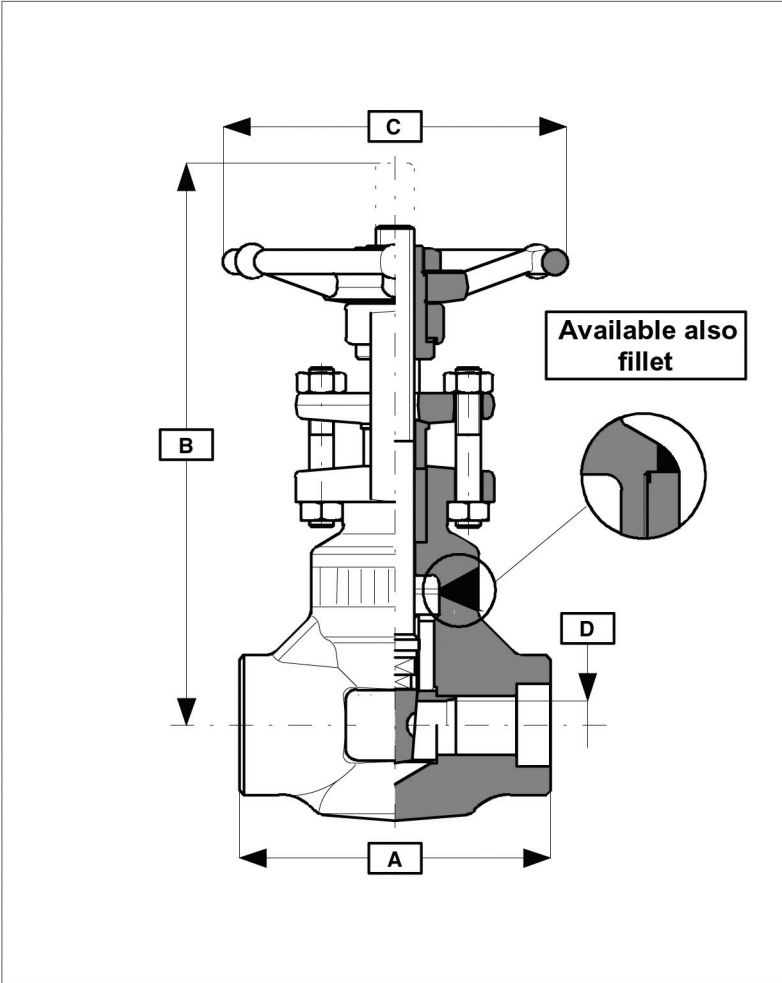
Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: GA25SA58GB - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	110	4.33	115	4.53	130	5.12	210	8.27	240	9.45
B	(mm/in)	212	8.35	256	10.08	272	10.71	411	16.18	422	16.61
C	(mm/in)	140	5.51	200	7.87	200	7.87	260	10.24	350	13.77
D	(mm/in)	10	0.48	14	0.55	18	0.71	31	1.22	36.5	1.44
Wt.	(kg/lb)	6.1	13.4	8.7	19.1	10.2	22.4	27.4	60.3	36.2	79.6

Figure Number Definitions - See page 4



Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

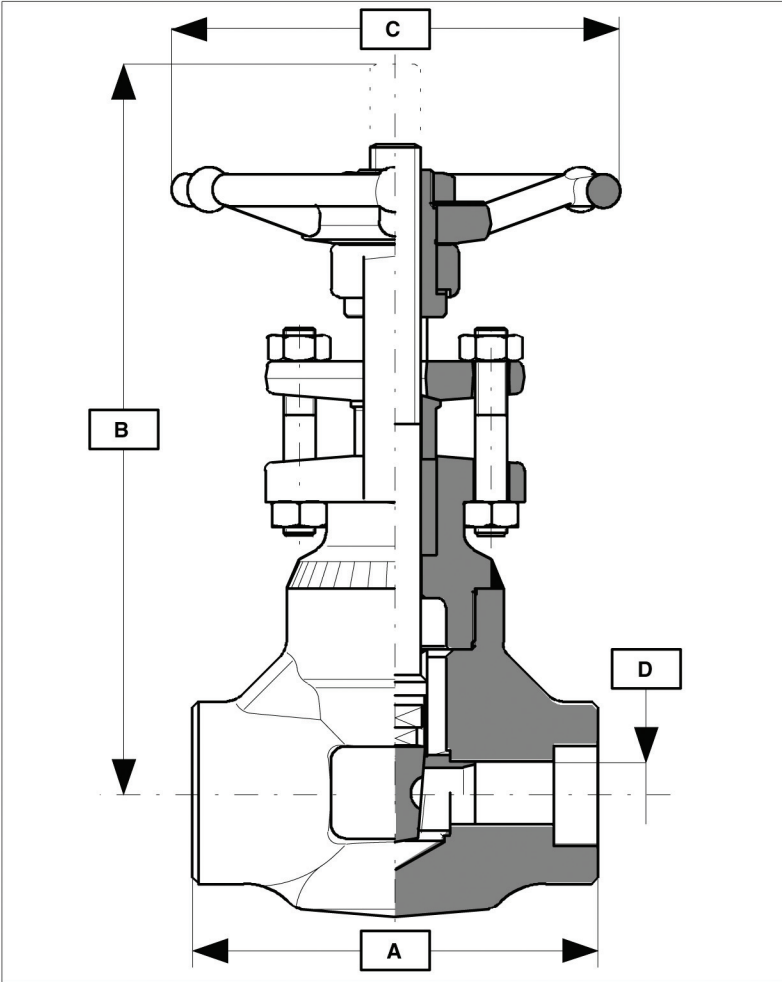
Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: GA25SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	110	4.33	127	5.00	127	5.00	150	5.91	240	9.45
B	(mm/in)	198	7.80	225	8.85	243	9.57	387	15.24	403	15.87
C	(mm/in)	140	5.51	200	7.87	200	7.87	260	10.24	350	13.78
D	(mm/in)	10	0.39	14	0.55	18	0.71	31	1.22	36.5	1.44
Wt.	(kg/lb)	2.6	5.72	4.0	8.8	5.9	13.0	10.0	22.0	29	63.8

Figure Number Definitions - See page 4



Ratings (ASTM A105)

4010 p.s.i. @ 850°F
11110 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 16650 p.s.i.
Seat - 12210 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: GA45SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	127	5.00	127	5.00	130	5.12	240	9.45	240	9.45
B	(mm/in)	234	9.21	259	10.20	323	12.72	431	16.97	486	19.13
C	(mm/in)	175	6.89	200	7.87	260	10.24	350	13.78	350	13.78
D	(mm/in)	8	0.31	11	0.43	15	0.59	25	0.98	30	1.18
Wt.	(kg/lb)	4.1	9.0	6.2	13.6	11.8	26.0	28.0	61.6	42.0	92.4

Figure Number Definitions - See page 4

Ratings (ASTM A105)

150 p.s.i. @ 550°F
285 p.s.i. @ 100°F

Test pressure (ASTM A105)

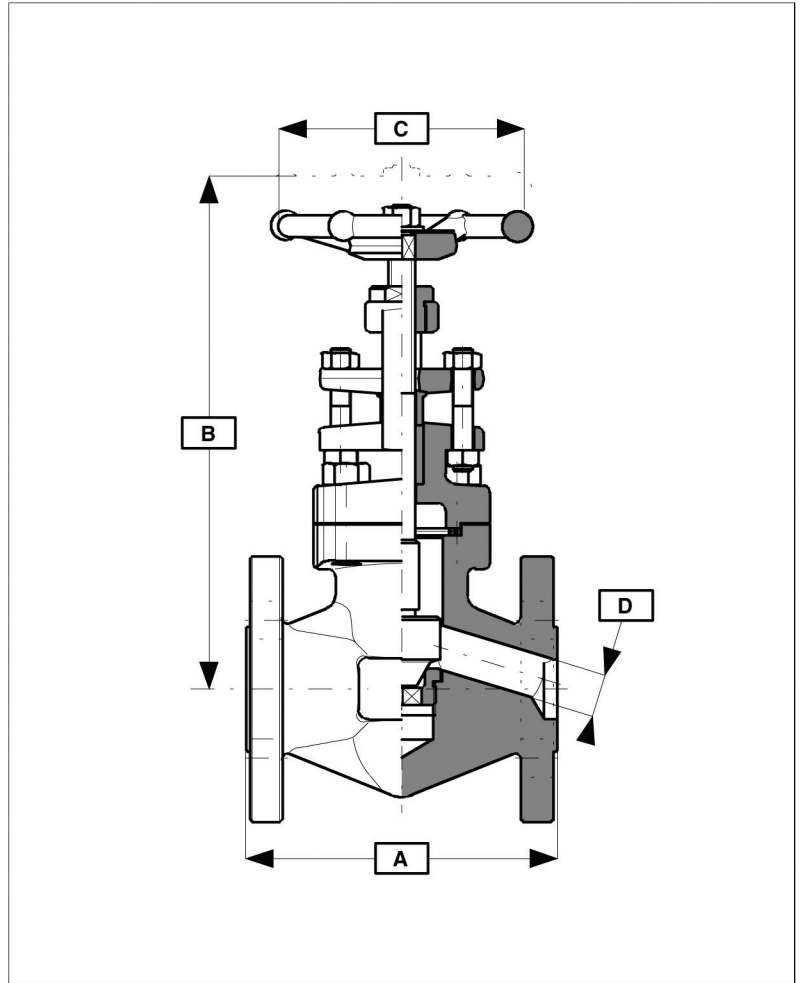
Hydrostatic: (minimum)
Body - 450 p.s.i.
Seat - 325 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)



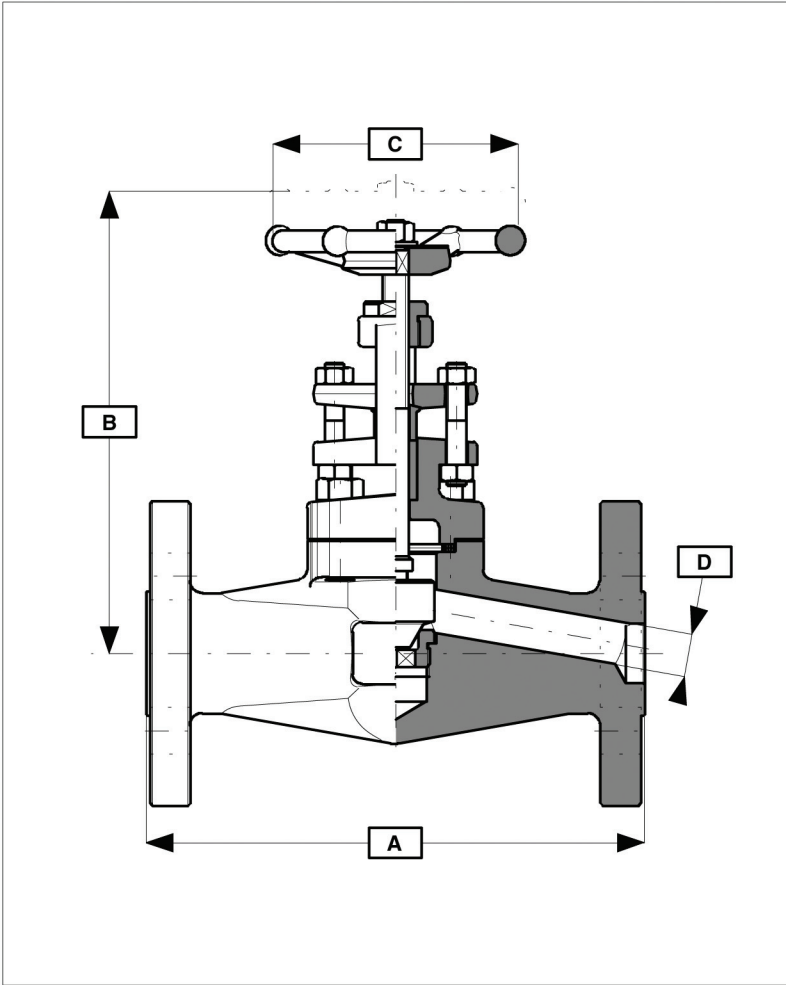
Typical Figure Number: GA01FA58GB - A105, Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	107.9	4.25	117.5	4.63	127.0	5.00	165.1	6.50	203.2	8.00
B	(mm/in)	186	7.32	189	7.44	203	7.99	283	11.14	314	12.36
C	(mm/in)	90	3.54	90	3.54	100	3.94	140	5.51	140	5.51
D	(mm/in)	9	0.35	12.5	0.49	17.5	0.69	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	3.1	6.8	4	8.8	5.7	12.5	10.6	23.3	15.4	33.9

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	107.9	4.25	117.5	4.63	127.0	5.00	165.1	6.50	203.2	8.00
B	(mm/in)	188	7.40	192	7.56	207	8.15	283	11.14	314	12.36
C	(mm/in)	90	3.54	100	3.94	120	4.72	140	5.51	200	7.87
D	(mm/in)	12.5	0.49	17.5	0.69	22.5	0.89	32	1.26	38	1.57
Wt.	(kg/lb)	3	6.6	3.9	8.6	5.6	12.3	10.6	23.3	15.8	34.8

Figure Number Definitions - See page 4

1) D = 29,5 with integral stellited seat
2) D = 35 with integral stellited seat



Ratings (ASTM A105)

300 p.s.i. @ 850°F
740 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 1125 p.s.i.
Seat - 825 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)

Typical Figure Number: GL03FA58GB - A105, Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	152.4	5.98	177.8	7.00	203.2	8.00	228.6	9.00	266.7	10.50
B	(mm/in)	152	5.98	159	6.26	182	7.17	283	11.14	306	12.05
C	(mm/in)	90	3.54	90	3.54	100	3.94	140	5.51	140	5.51
D	(mm/in)	9	0.35	12.5	0.49	17.5	0.69	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	3.4	7.5	4.8	10.6	7.0	15.4	14.2	31.2	17.4	38.3

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	152.4	5.98	177.8	7.00	203.2	8.00	228.6	9.00	266.7	10.50
B	(mm/in)	152	5.98	159	6.26	182	7.17	283	11.14	306	12.05
C	(mm/in)	90	3.54	100	3.94	120	4.72	140	5.51	200	7.87
D	(mm/in)	13	0.51	17.5	0.69	22.5	0.89	34	1.34	45	1.77
Wt.	(kg/lb)	3.4	7.5	4.8	10.6	7.0	15.4	14.2	31.2	17.4	38.3

Figure Number Definitions - See page 4

1) D = 29,5 with integral stellited seat
2) D = 35 with integral stellited seat

Ratings (ASTM A105)

600 p.s.i. @ 850°F
1480 p.s.i. @ 100°F

Test pressure (ASTM A105)

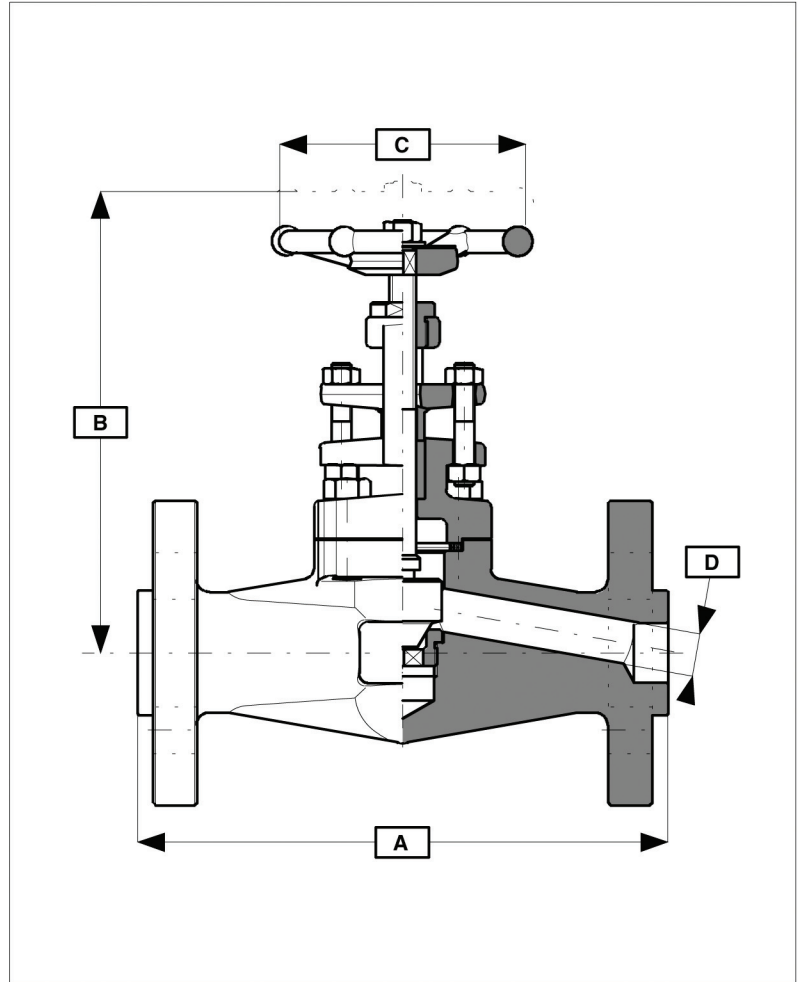
Hydrostatic: (minimum)
Body - 2225 p.s.i.
Seat - 1650 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)
R Ring joint



Typical Figure Number: GL06FA58GB - A105, RF Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	165.1	6.50	190.5	7.50	215.9	8.50	241.3	9.50	292.1	11.50
B	(mm/in)	152	5.98	159	6.26	182	7.17	283	11.14	306	12.05
C	(mm/in)	90	3.54	90	3.54	100	3.94	140	5.51	140	5.51
D	(mm/in)	9	0.35	12.5	0.49	17.5	0.69	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	3.6	7.9	5.1	11.2	7.8	17.2	14.2	31.2	19.4	42.7

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	165.1	6.50	190.5	7.50	215.9	8.50	241.3	9.50	292.1	11.50
B	(mm/in)	159	6.26	182	7.17	214	8.43	306	12.05	327	12.87
C	(mm/in)	90	3.54	100	3.94	120	4.72	140	5.51	200	7.87
D	(mm/in)	12	0.47	17.5	0.69	22.5	0.89	34	1.34	45	1.77
Wt.	(kg/lb)	3.8	8.4	6.8	15.0	10.3	22.7	17.8	39.2	26.8	59.0

Figure Number Definitions - See page 4

1) D = 29,5 with integral stellite seat
2) D = 35 with integral stellite seat

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

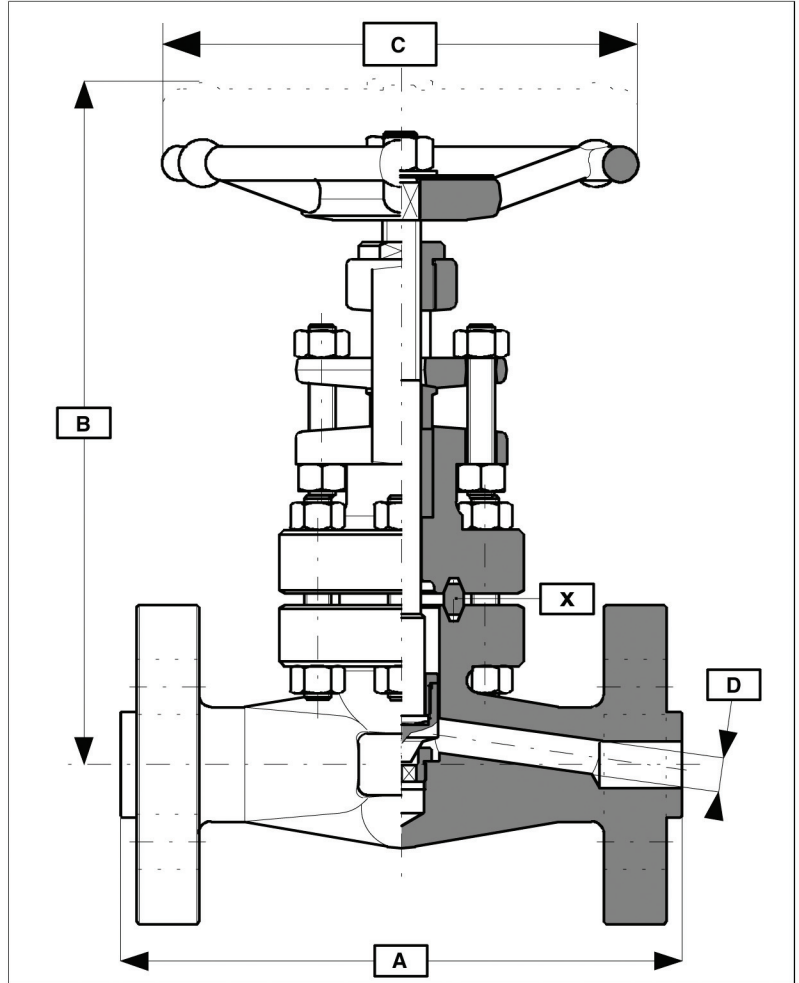
Seat - 85 p.s.i.

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)
R Ring joint

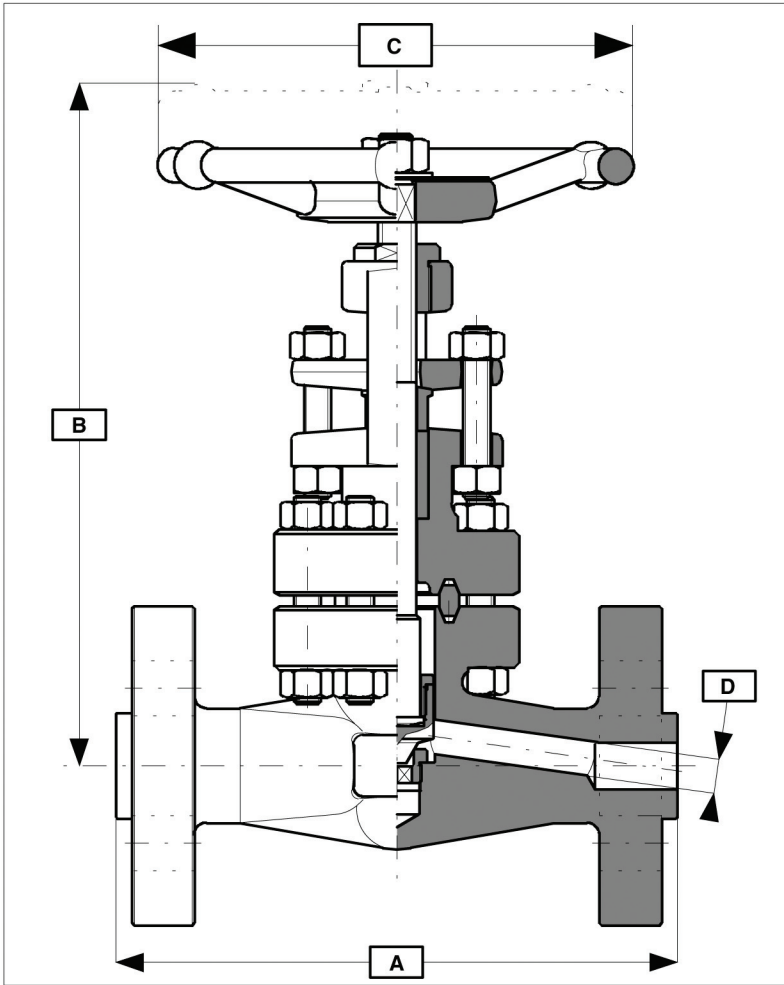


X) Gasket=Spiral wound Std. RJ gasket available on request.

Typical Figure Number: GL15FA58GB - A105, RF Flanged, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/2"		2"			
A	(mm/in)	215.9	8.49	228.6	9.00	254.0	10.00	304.8	12.00	368.3	14.50		
B	(mm/in)	218	8.58	274	10.79	286	11.26	427	16.81	433	17.05		
C	(mm/in)	120	4.72	175	6.89	175	6.89	260	10.24	260	10.24		
D	(mm/in)	11	0.43	14.5	0.57	19	0.75	31	1.22	37.5	1.48		
Wt.	(kg/lb)	9.4	20.7	15.2	33.44	17.3	38.1	37.9	83.4	55.2	121.4		

Figure Number Definitions - See page 4



Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Flanged ASME B16.5, ASME B16.10
Test API 598-ASME B16.34

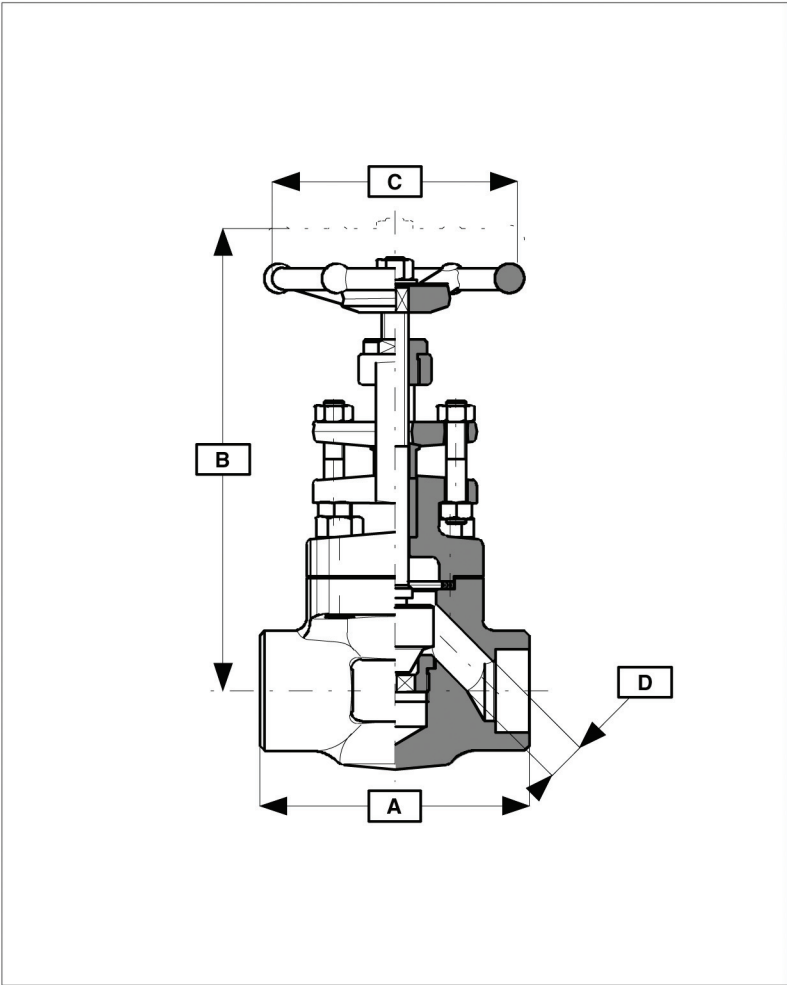
Connections

F Raised face (std.)
R Ring joint

Typical Figure Number: GL25FA58GB - A105, RF Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	263.5	10.37	273.0	10.75	308.0	12.13	384.2	15.13	450.8	17.15
B	(mm/in)	218	8.58	274	10.79	286	11.26	427	16.81	433	17.05
C	(mm/in)	140	5.51	200	7.87	200	7.87	260	10.24	350	13.77
D	(mm/in)	10	0.39	13	0.51	18	0.71	25	0.98	34	1.33
Wt.	(kg/lb)	9.6	21.1	15.4	33.9	17.4	38.3	38.5	84.7	55.9	123.0

Figure Number Definitions - See page 4



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld (SW)
X SW/NPT
T Threaded NPT

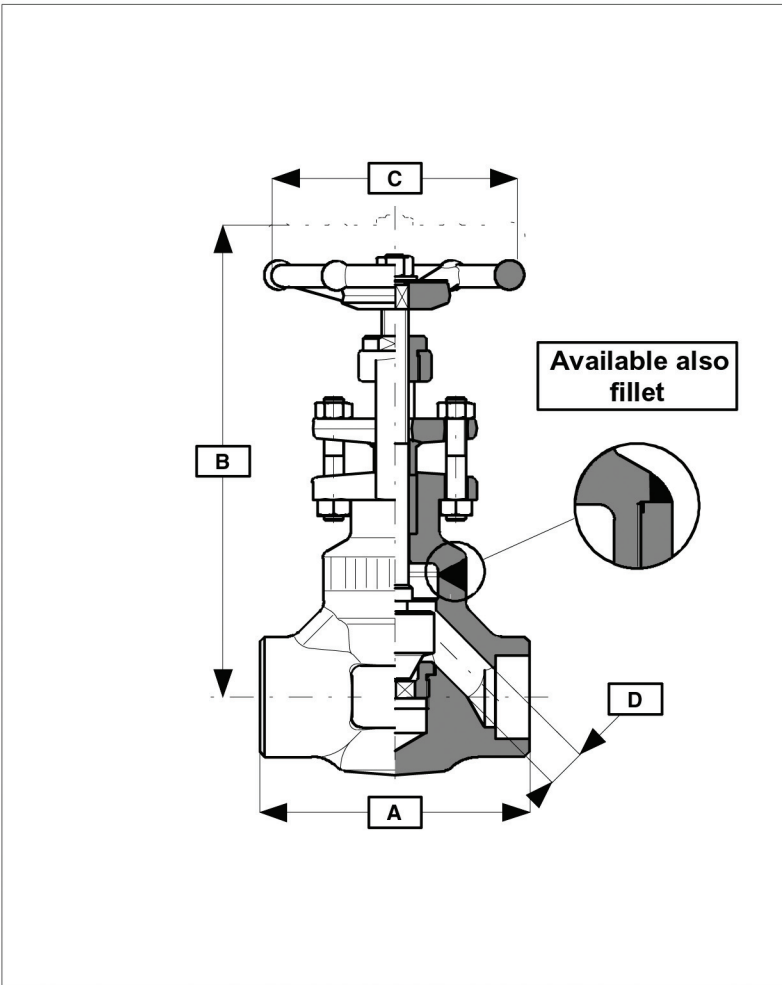
Typical Figure Number: GL08SA58GB - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT							
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		
A (mm/in)		80 3.15	90 3.54	110 4.33	127 5.00	155 6.10	170 6.69		
B (mm/in)		152 5.98	159 6.26	182 7.17	214 8.43	283 11.14	306 12.05		
C (mm/in)		90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51		
D (mm/in)		9 0.35	12.5 0.49	17.5 0.69	22.5 0.89	28 ⁽¹⁾ 1.10	32 ⁽²⁾ 1.26		
Wt. (kg/lb)		1.7 3.7	2 4.4	3.2 7.0	5.3 11.7	7.8 17.2	10.6 23.3		

		SPECIAL PORT							
		1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A (mm/in)		80 3.15	80 3.15	90 3.54	110 4.33	127 5.00	155 6.10	170 6.69	210 8.27
B (mm/in)		150 5.91	152 5.98	159 6.26	182 7.17	214 8.43	283 11.14	306 12.05	327 12.87
C (mm/in)		90 3.54	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	200 7.87
D (mm/in)		6 0.24	9 0.35	12.5 0.49	17.5 0.69	22.5 0.89	28 ⁽¹⁾ 1.10	32 ⁽²⁾ 1.26	40 ⁽³⁾ 1.57
Wt. (kg/lb)		1.8 4.0	1.8 4.0	2.1 4.6	3.3 7.3	5.4 11.9	7.9 17.4	10.7 23.5	16 35.2

Figure Number Definitions - See page 4

1) D = 29.5 with integral stellited seat
2) D = 35 with integral stellited seat
3) D = 45 with integral stellited seat



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic:(minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld(SW)
X SW-x-NPT
T Threaded NPT

Typical Figure Number: GL08SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69
B	(mm/in)	153	6.02	158	6.22	179	7.05	220	8.66	250	9.84	274	10.79
C	(mm/in)	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D	(mm/in)	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	1.4	3.1	1.6	3.5	3	6.6	4.8	10.6	6.8	15.0	9.4	20.7

		SPECIAL PORT															
		1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B	(mm/in)	150	5.91	153	6.02	158	6.22	179	7.05	220	8.66	250	9.84	274	10.79	327	12.87
C	(mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D	(mm/in)	6.5	0.26	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26	38 ⁽³⁾	1.50
Wt.	(kg/lb)	1.4	3.1	1.4	3.1	1.6	3.5	3.0	6.6	4.8	10.7	6.8	15.0	9.4	20.7	14.6	32.1

Figure Number Definitions - See page 4

1) D = 29,5 with integral stellited seat
2) D = 35 with integral stellited seat
3) D = 42 with integral stellited seat

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Pneumatic:

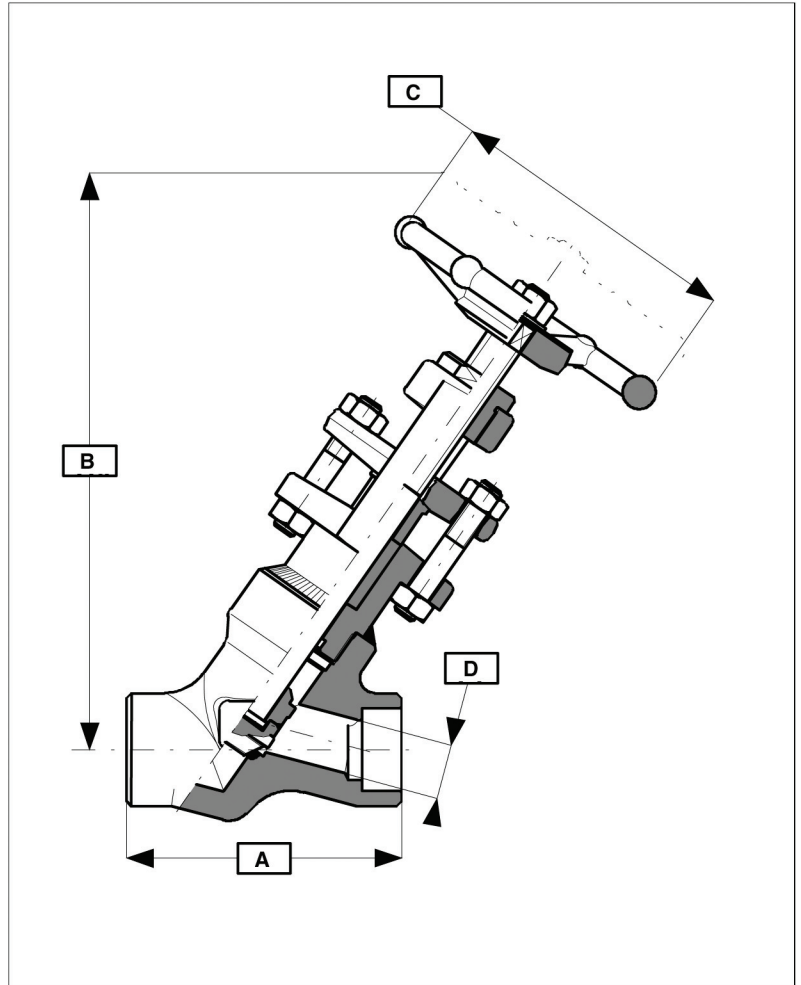
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GY08SA58GW - A105, Socket Weld, Trim 8

CONVENTIONAL PORT									
	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
A (mm/in)	80 3.15	80 3.15	80 3.15	100 3.94	110 4.33	120 4.72	160 6.30	190 7.48	
B (mm/in)	147 5.79	147 5.79	147 5.79	186 7.32	220 8.66	235 9.25	305 12.01	352 13.86	
C (mm/in)	90 3.54	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	200 7.87	
D (mm/in)	8 0.31	9 0.35	12 0.47	18 0.7	22.5 0.89	29.5 1.16	35 1.38	45.5 1.79	
Wt. (kg/lb)	2.4 5.3	2.4 5.3	2.4 5.3	3.0 6.6	4.0 8.8	8.0 17.6	10.0 22.0	16.0 35.2	

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

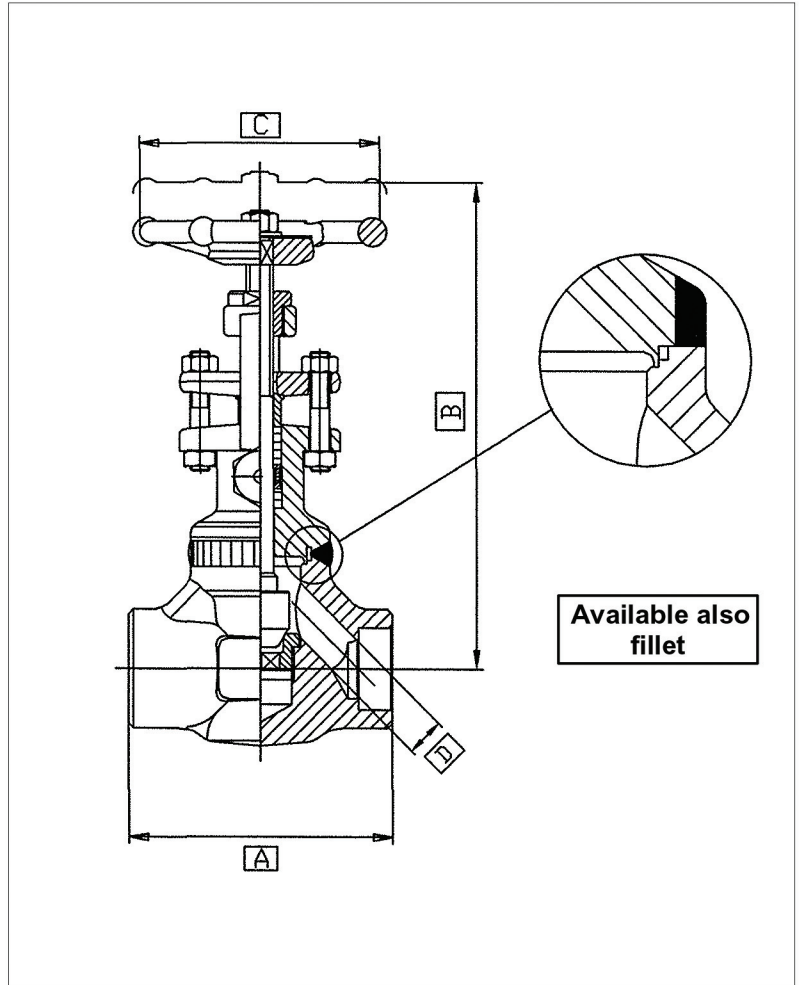
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt. 1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

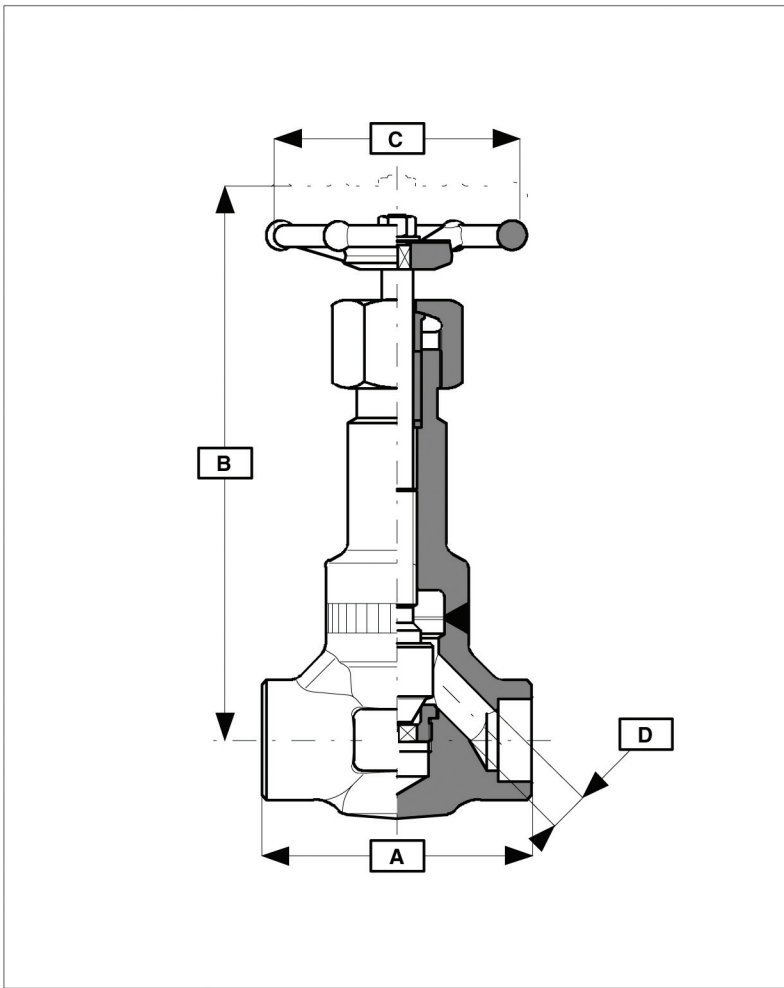


Typical Figure Number: GL08SA58GL - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69
B	(mm/in)	163	6.42	168	6.61	191	7.52	240	9.45	262	10.31	288	11.34
C	(mm/in)	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D	(mm/in)	9	0.35	12	0.47	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	1.6	3.5	1.8	4.0	3.3	7.3	5.2	11.44	7.1	15.6	9.9	21.8

Figure Number Definitions - See page 4

1) D = 29.5 with integral stellite seat
2) D = 35 with integral stellite seat



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: IL08SL62GW - Type316L, Socket Weld, Trim 12

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	6.10	155	6.10	170	6.69
B	(mm/in)	162	6.38	189	7.44	222	8.74	250	9.84	278	10.95	314	12.36
C	(mm/in)	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D	(mm/in)	9	0.35	12.5	0.49	17.5	0.69	22.5	0.88	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	1.5	3.3	1.8	4.0	3.3	7.3	5.5	12.1	8	17.6	10.6	23.3

Figure Number Definitions - See page 4

1) D = 29.5 with integral stellited seat
2) D = 35 with integral stellited seat

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

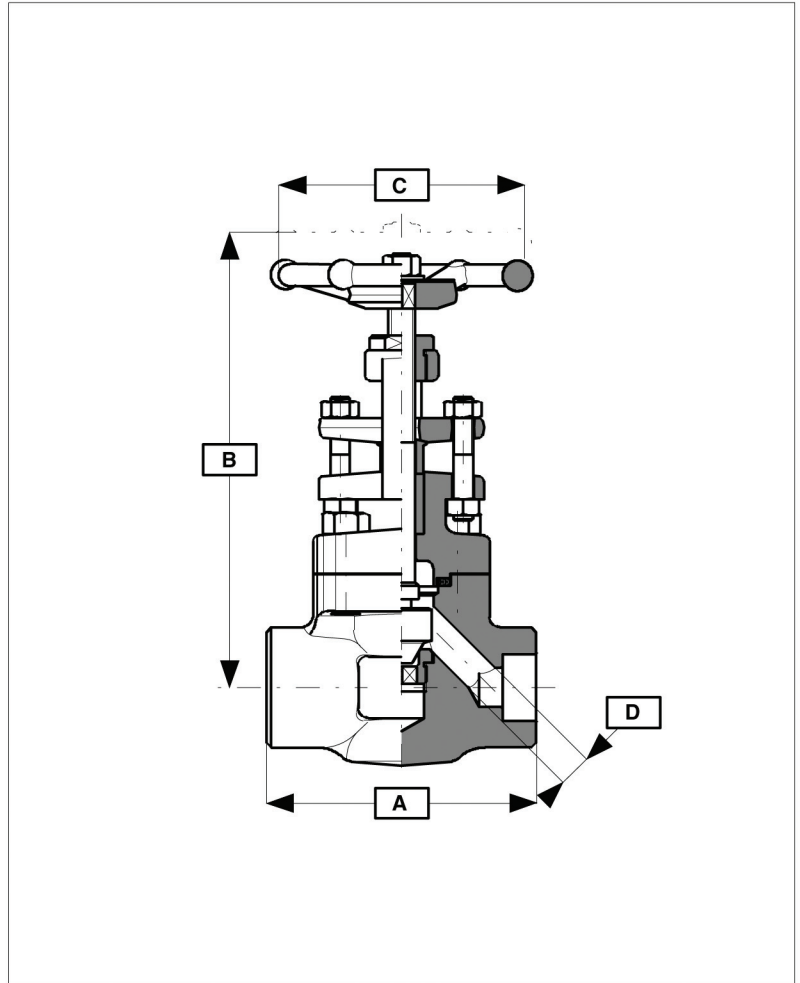
Hydrostatic: (minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602 As applicable
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598

Connections

S Socket weld (SW)
T Threaded NPT
X Threaded NPT



Typical Figure Number: **GL15SA58GB - A105, Socket Weld, Trim 8**

CONVENTIONAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B (mm/in)	169	6.65	169	6.65	169	6.65	181	7.13	210	8.27	246	9.69	255	10.04	307	12.09
C (mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D (mm/in)	6,5	0.26	9	0.35	10	0.39	13.5	0.53	18	0.71	24	0.94	29	1.14	35	1.38
Wt. (kg/lb)	2.4	5.3	2.4	5.3	2.4	5.3	3.7	8.1	5.5	12.1	8.3	18.3	11.4	25.1	16.8	37.0

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

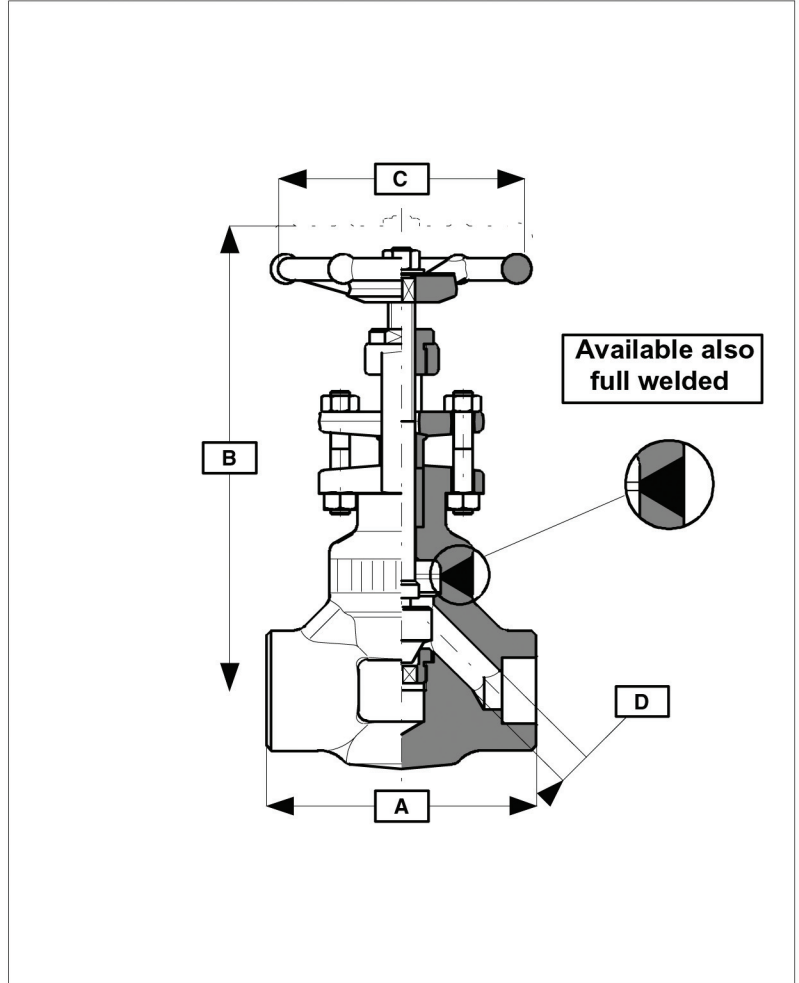
Hydrostatic: (minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602 As applicable
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GL15SA58GW - A105, Socket Weld, Trim 8

CONVENTIONAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B (mm/in)	177	6.97	177	6.97	177	6.97	185	7.28	214	8.43	244	9.61	270	10.63	330	12.99
C (mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D (mm/in)	6.5	0.26	9	0.35	10	0.39	13.5	0.53	18	0.71	24	0.94	29	1.14	35	1.38
Wt. (kg/lb)	2.1	4.6	2.1	4.6	2.1	4.6	3.4	7.48	5.4	11.9	7.6	16.7	10.5	23.1	16.5	36.3

Figure Number Definitions - See page 4

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

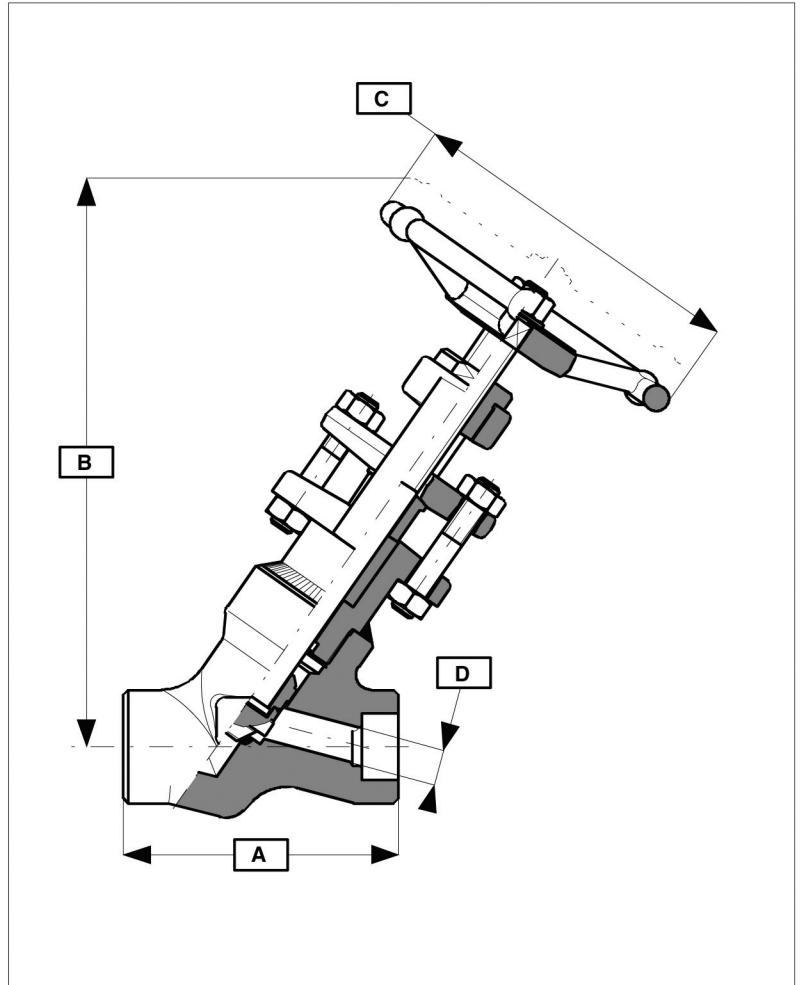
Hydrostatic: (minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352-ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

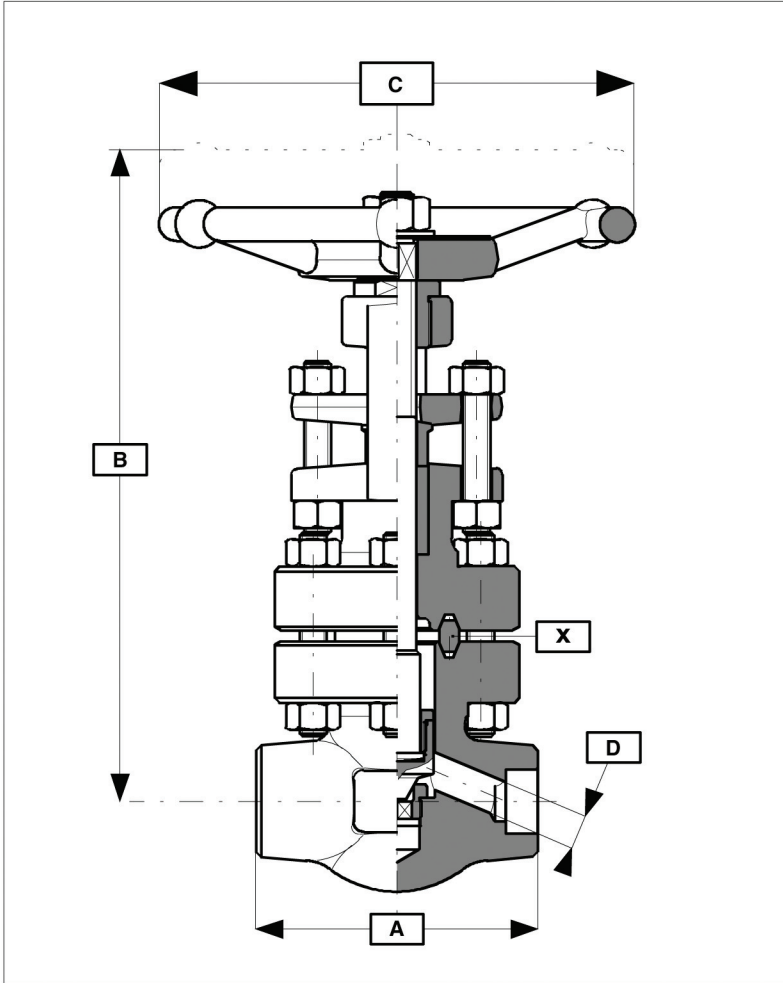
Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GY15SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	100	3.94	110	4.33	120	4.72	160	6.30	190	7.48	190	7.48
B	(mm/in)	186	7.32	220	8.66	229	9.02	305	12.01	348	13.70	389	15.31
C	(mm/in)	120	3.94	175	6.89	175	6.89	200	7.87	200	7.87	260	10.24
D	(mm/in)	12	0.47	16	0.63	20	0.79	28	1.10	32	1.26	43	1.69
Wt.	(kg/lb)	3.0	6.6	4.0	8.8	7.0	15.4	10.5	23.1	15.0	33.0	19.0	41.0



Ratings (ASTM A105)
1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydrostatic: (minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards
Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

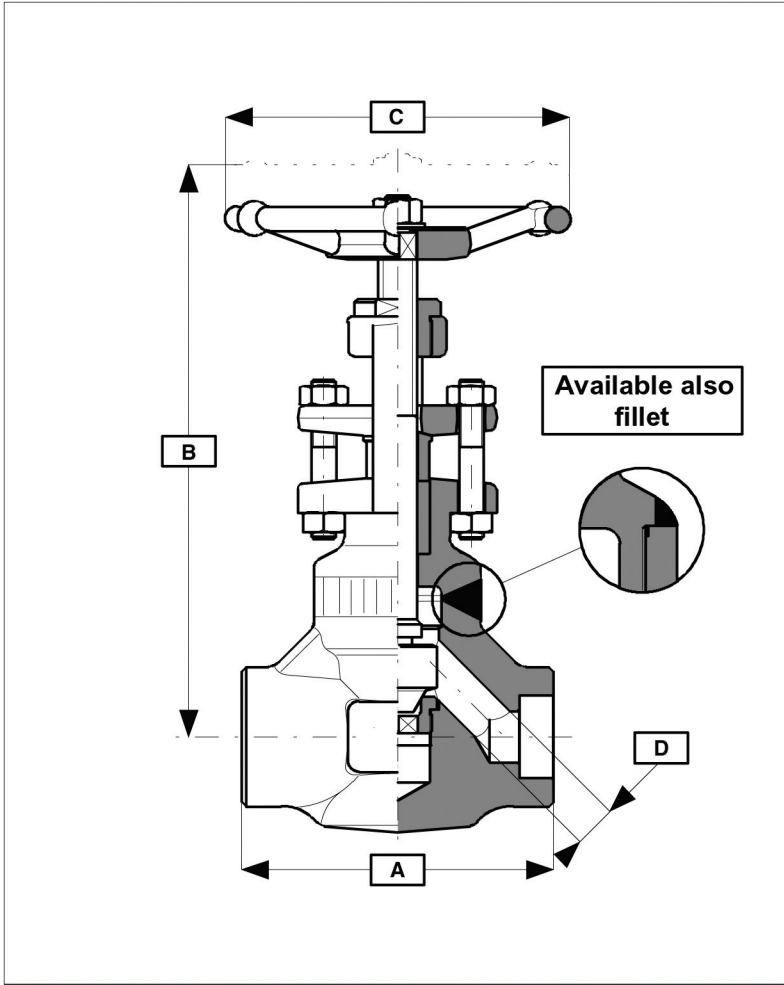
Connections
S Socket weld(SW)
T Threaded NPT
X SW-x-NPT

X) Gasket=Spiral wound Std. RJ gasket available on request.

Typical Figure Number: GLL5SA58GB - A105, Socket Weld, Trim 8

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	110	4.33	115	4.53	130	5.12	210	8.27	240	9.45
B	(mm/in)	218	8.58	274	10.79	286	11.26	427	16.8	433	17.05
C	(mm/in)	120	4.72	175	6.89	175	6.89	260	10.24	260	10.24
D	(mm/in)	11	0.43	14.5	0.57	19	0.75	31	1.22	37.5	1.48
Wt.	(kg/lb)	5.6	12.3	8.0	17.6	9.3	20.5	26.2	57.6	34.5	75.9

Figure Number Definitions - See page 4



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: GLL5SA58GW - A105, Socket Weld, Trim 8

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	90	3.54	110	4.33	127	5.00	170	6.69	210	8.26
B	(mm/in)	203	7.99	227	8.94	233	9.17	310	12.20	402	15.83
C	(mm/in)	120	4.72	175	6.89	175	6.89	200	7.87	260	10.24
D	(mm/in)	11	0.43	14.5	0.57	19	0.75	31	1.22	37.5	1.48
Wt.	(kg/lb)	1.9	4.2	3.3	7.4	5.2	11.4	10.3	22.7	17.8	39.16

Figure Number Definitions - See page 4

Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

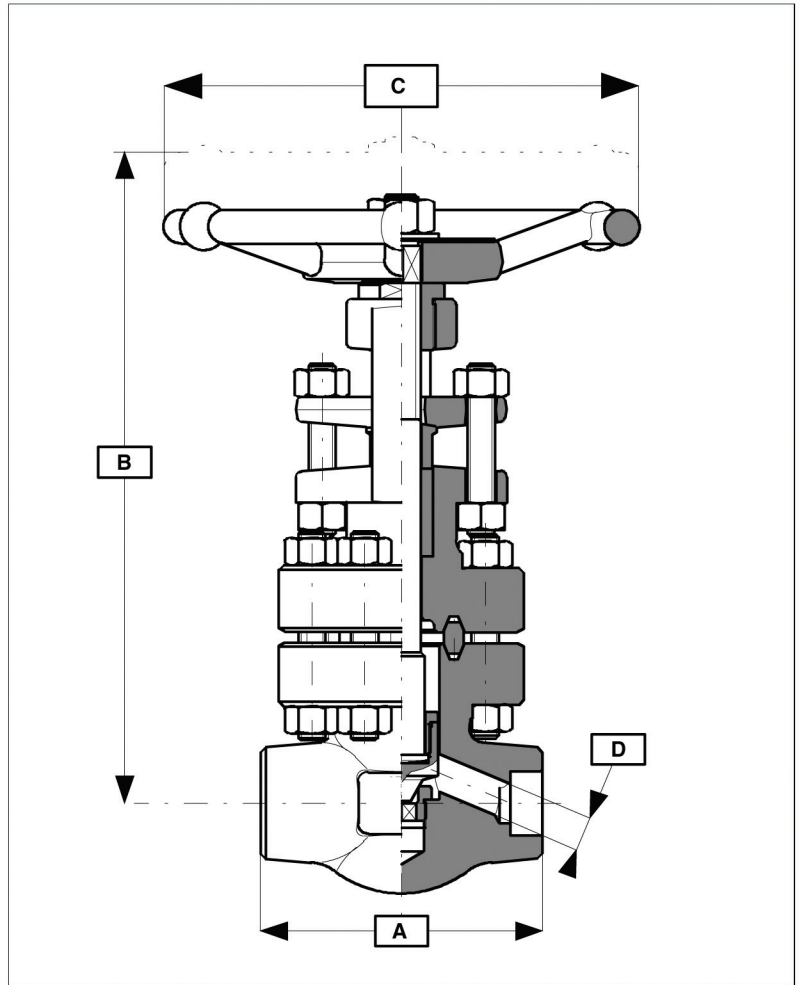
Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GL25SA58GB - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	110	4.33	115	4.52	130	5.12	210	8.27	240	9.45
B	(mm/in)	218	8.58	260	10.24	268	10.55	427	16.81	433	17.05
C	(mm/in)	140	5.51	200	7.87	200	7.87	260	10.24	350	13.77
D	(mm/in)	10	0.39	13	0.51	18	0.71	25	0.98	34	1.33
Wt.	(kg/lb)	5.8	13.0	8.3	18.3	9.7	21.3	26.8	59.0	35.3	77.7

Figure Number Definitions - See page 4

Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

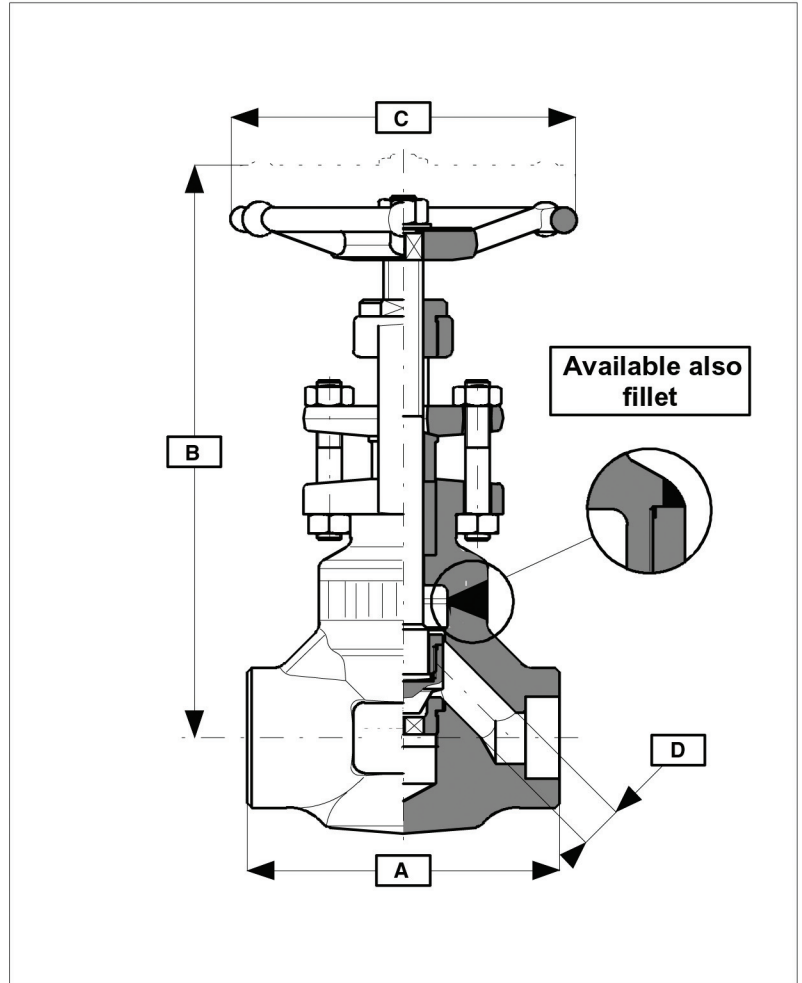
Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test ASME B16.34

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GL25SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	110	4.33	127	4.33	155	6.10	210	8.27	240	9.45
B	(mm/in)	209	8.22	238	9.37	257	10.11	386	15.20	407	16.02
C	(mm/in)	140	5.51	200	7.87	200	7.87	260	10.24	350	13.78
D	(mm/in)	10	0.39	13	0.51	18	0.71	25	0.98	34	1.33
Wt.	(kg/lb)	2.5	5.5	4.1	9.0	6.2	13.6	11.8	26.0	28	61.6

Figure Number Definitions - See page 4

Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

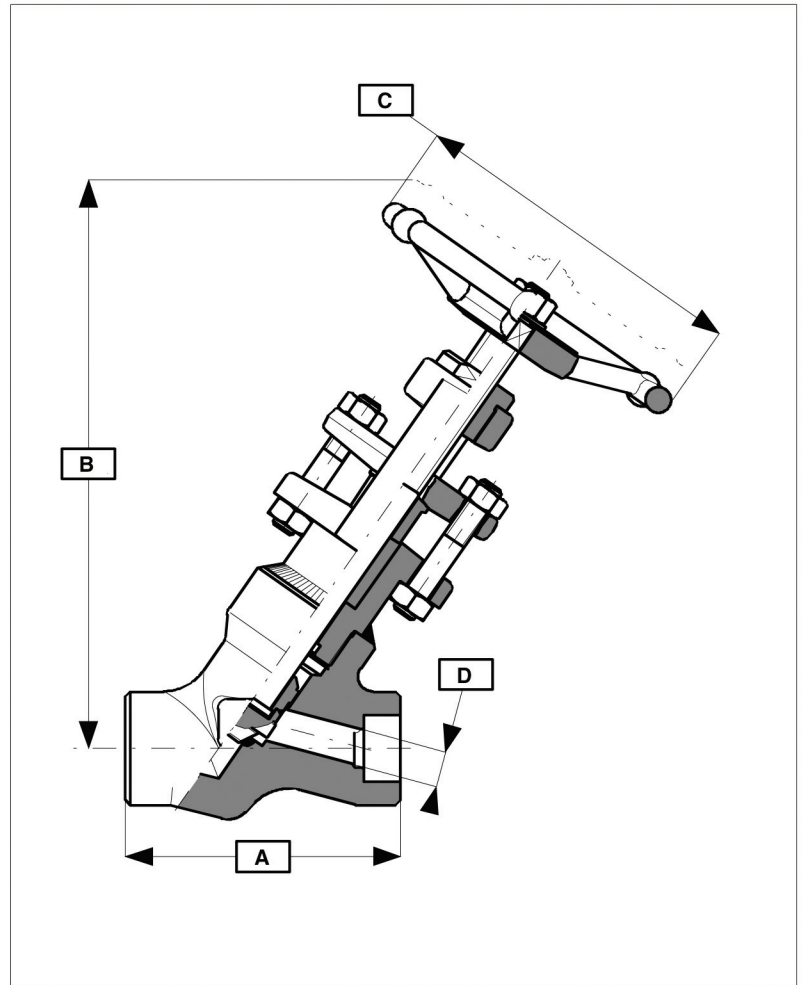
Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GY25SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	110	4.33	120	4.72	120	4.72	190	7.48	190	7.48	210	8.27
B	(mm/in)	217	8.54	276	10.87	276	10.87	388	15.28	388	15.28	402	15.83
C	(mm/in)	140	5.51	200	7.87	200	7.87	260	10.24	260	10.24	350	13.78
D	(mm/in)	10	0.39	13	0.51	18	0.71	24	0.94	28	1.10	35	1.38
Wt.	(kg/lb)	4.0	8.8	5.0	11.0	11.0	24.2	11.0	24.2	17.0	37.4	23.0	50.6

Figure Number Definitions - See page 4

Ratings (ASTM A105)

4010 p.s.i. @ 850°F
11110 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 16650 p.s.i.
Seat - 12210 p.s.i.

Pneumatic:

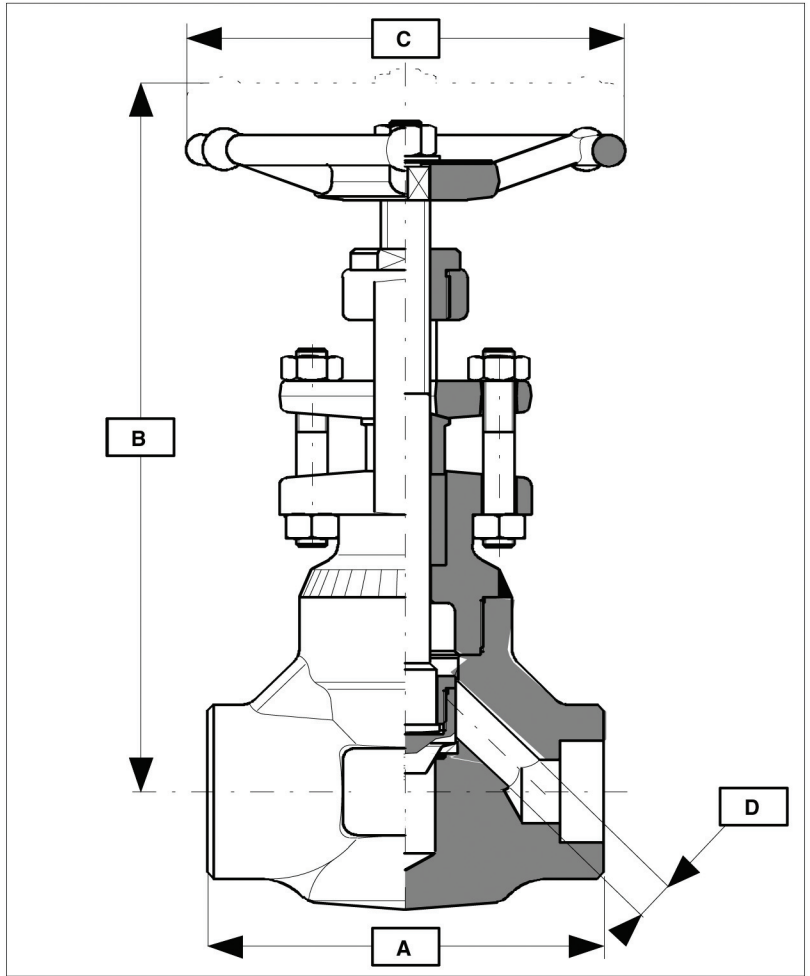
Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GL45SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	127	5.00	155	6.10	170	6.69	240	9.45	240	9.45
B	(mm/in)	230	9.06	277	10.90	335	13.18	431	16.97	450	17.72
C	(mm/in)	175	6.89	200	7.87	260	10.24	350	13.78	350	13.78
D	(mm/in)	7	0.28	11	0.43	14	0.55	25	0.98	30	1.18
Wt.	(kg/lb)	4.1	9.0	6.2	13.6	11.8	26.0	28.0	61.6	42	92.4

Figure Number Definitions - See page 4

Ratings (ASTM A105)

4010 p.s.i. @ 850°F
11110 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 16650 p.s.i.
Seat - 12210 p.s.i.

Pneumatic:

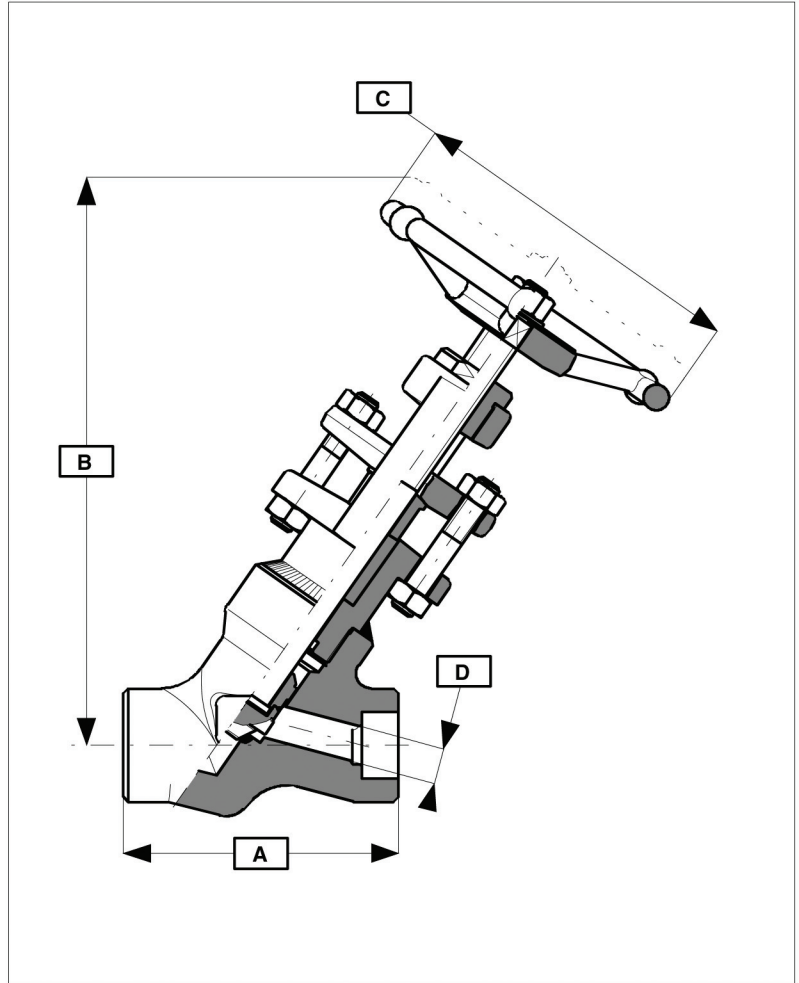
Seat - 85 p.s.i.

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

Connections

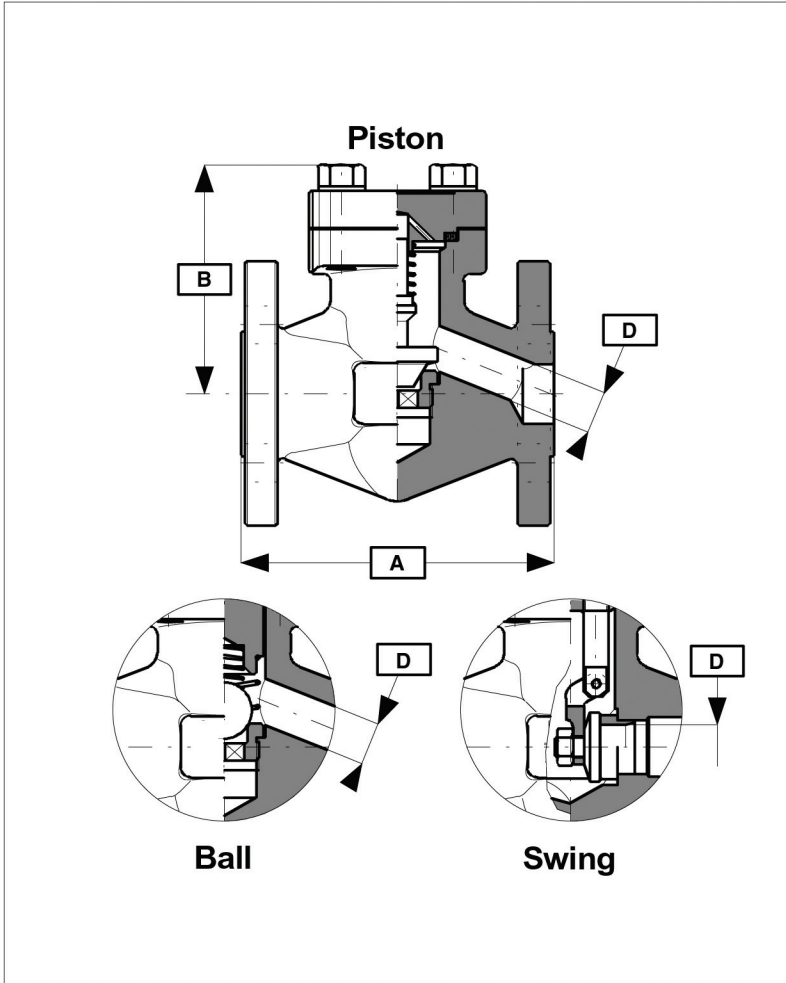
S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: GY45SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	120	4.72	160	6.30	190	7.48	210	8.27	230	9.06
B	(mm/in)	243	9.57	322	12.67	378	14.88	452	17.79	520	20.47
C	(mm/in)	175	7.87	200	7.87	260	10.24	350	13.78	350	13.78
D	(mm/in)	7	0.28	11	0.43	14	0.55	25	0.98	30	1.18
Wt.	(kg/lb)	7.0	15.4	8.4	18.5	14.6	37.1	23.0	50.6	42.0	97.4

Figure Number Definitions - See page 4



Ratings (ASTM A105)

150 p.s.i. @ 550°F
285 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic:(minimum)
Body - 450 p.s.i.
Seat - 325 p.s.i.
Pneumatic:
not applicable

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)

Typical Figure Number: PC01FA58GB - A105, Piston Check, Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	107.9	4.25	117.5	4.63	127.0	5.00	165.1	6.50	203.2	8.00
B	(mm/in)	84	3.31	87	3.43	92	3.62	97	3.82	124	4.88
D	⁽³⁾ (mm/in)	9	0.35	12.5	0.49	17.5	0.69	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	2.6	5.7	3.8	8.4	5.1	11.2	8.4	18.5	14.2	31.2

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	107.9	4.25	117.5	4.63	127.0	5.00	165.1	6.50	203.2	6.50
B	(mm/in)	84	3.31	87	3.43	92	3.62	110	4.33	124	4.88
D	⁽³⁾ (mm/in)	12.5	0.49	17.5	0.69	22.5	0.89	32	1.38	38	1.50
Wt.	(kg/lb)	2.6	5.7	3.8	8.4	5.1	11.2	8.4	18.5	14.7	31.2

Figure Number Definitions - See page 4

- 1) D = 29,5 with integral stellited seat
- 2) D = 35 with integral stellited seat
- 3) Dimensions for piston & ball type; for swing see page 5

Ratings (ASTM A105)

300 p.s.i. @ 850°F
740 p.s.i. @ 100°F

Test pressure (ASTM A105)

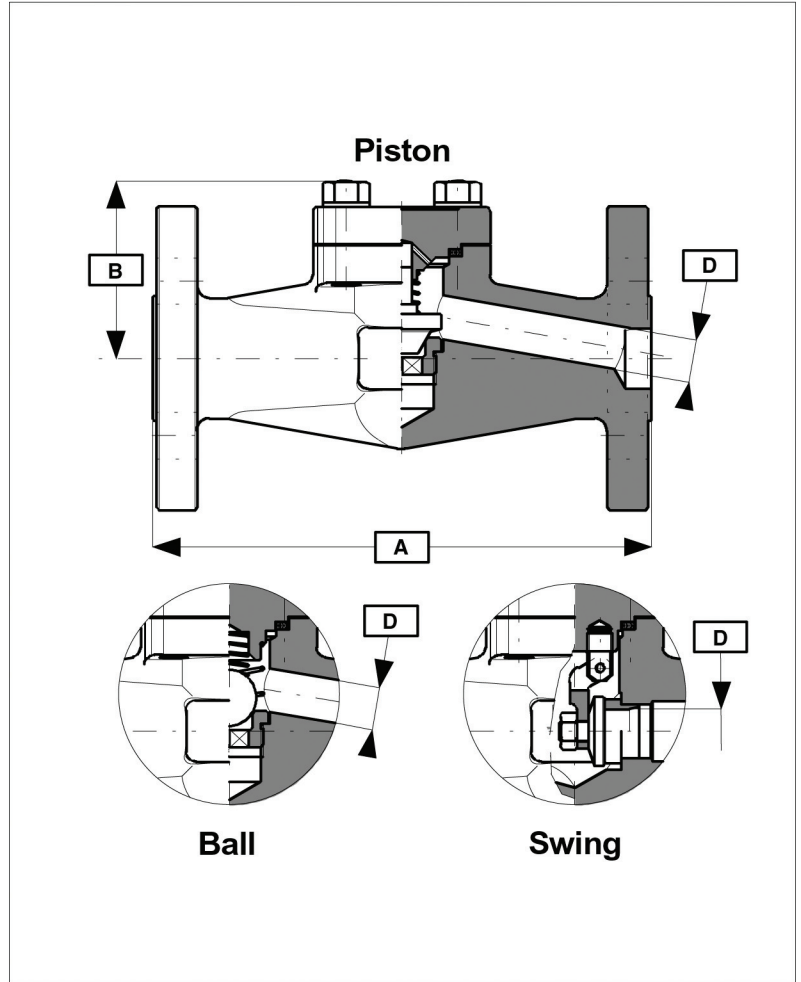
Hydrostatic: (minimum)
Body - 1125 p.s.i.
Seat - 825 p.s.i.
Pneumatic:
not applicable

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)



Typical Figure Number: PC03FA58GB - A105, Piston Check, Flanged, Trim 8

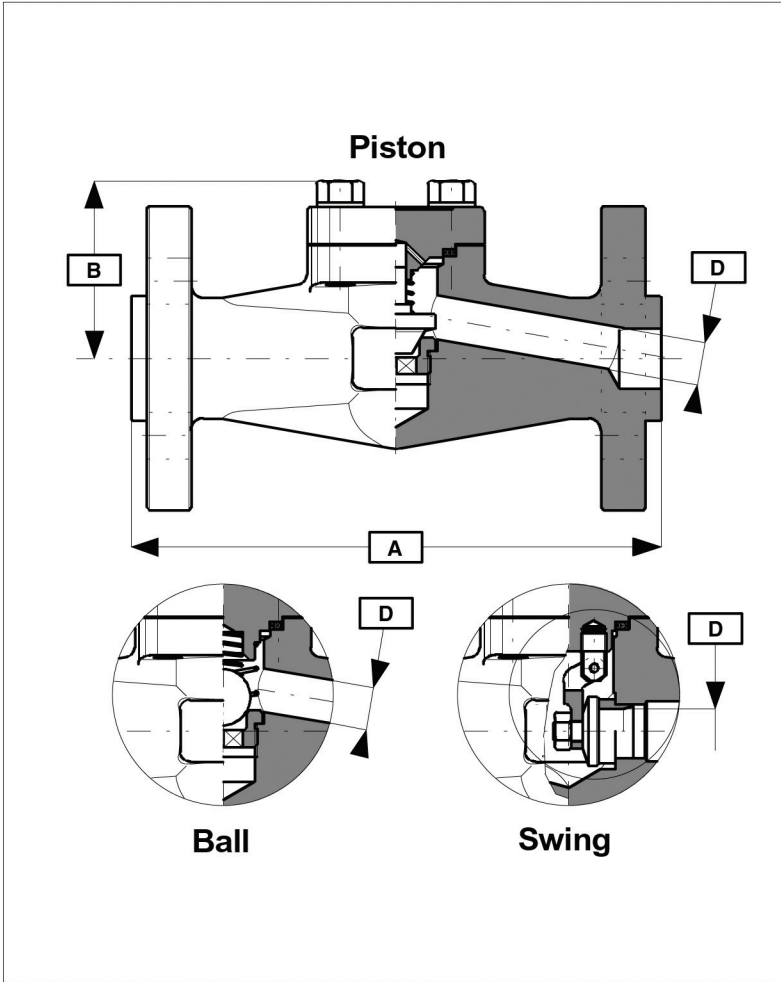
		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	152.4	6.00	177.8	7.00	203.2 ⁽³⁾	8.00	228.6 ⁽³⁾	9.00	266.7	10.50
B	(mm/in)	50	1.97	56	2.20	74	2.91	100	3.94	109	4.29
D	⁽⁴⁾ (mm/in)	9	0.35	12.5	0.49	17.5	0.69	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	2.5	5.5	4.2	9.2	5.7	12.5	11.2	24.6	14.4	31.7

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	152.4	6.00	177.8	7.00	203.2 ⁽³⁾	8.00	228.6 ⁽³⁾	9.00	266.7	10.50
B	(mm/in)	50	1.97	56	2.20	92	3.62	110	4.33	140	5.51
D	⁽⁴⁾ (mm/in)	12.5	0.49	17.5	0.69	22.5	0.89	35	1.38	45	1.77
Wt.	(kg/lb)	2.5	5.5	4.2	9.2	5.7	12.5	11.2	24.6	14.4	31.7

Figure Number Definitions - See page 4

1) D = 29,5 with integral stellited seat
2) D = 35 with integral stellited seat
3) Swing 1"=215,9 (8,50) - Swing 1.1/2" = 241,3 (9,50)

4) Dimensions for piston & ball type; for swing see page 6



Ratings (ASTM A105)

600 p.s.i. @ 850°F
1480 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 2225 p.s.i.
Seat - 1650 p.s.i.
Pneumatic:
not applicable

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)
R Ring joint

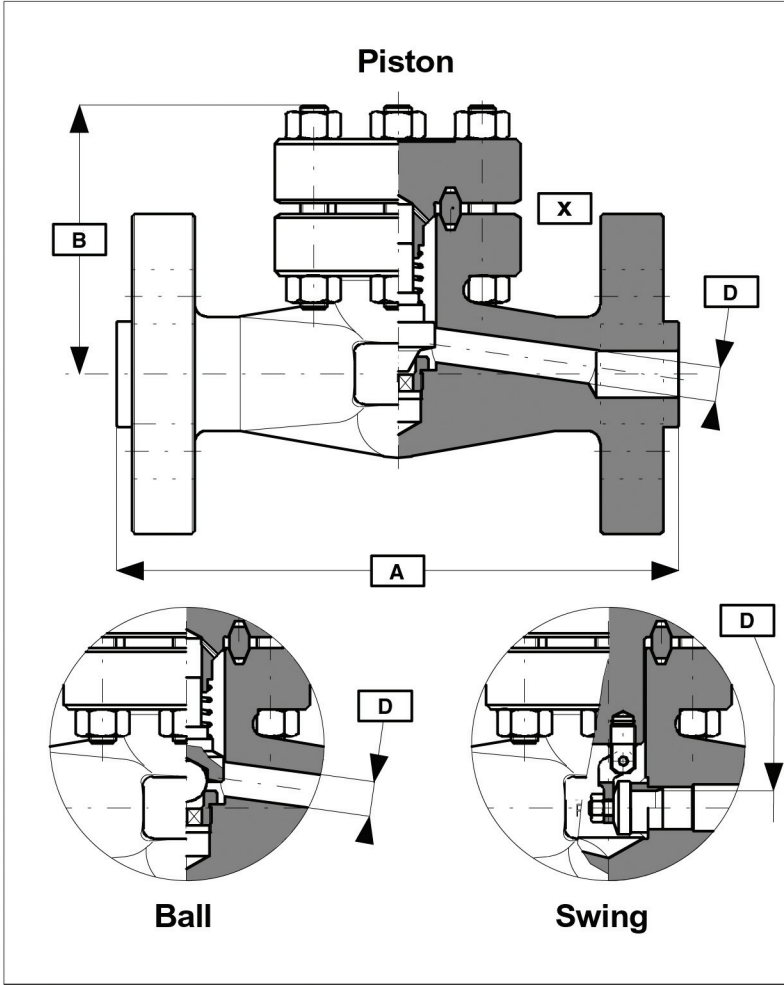
Typical Figure Number: PC06FA58GB - A105, Piston Check, RF Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	165.1	6.50	190.5	7.50	215.9	8.50	241.3	9.50	292.1	11.50
B	(mm/in)	50	1.97	56	2.20	74	2.91	100	3.94	109	4.29
D	⁽³⁾ (mm/in)	9	0.35	12.5	0.49	17.5	0.69	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	3.1	6.8	5	11.0	7.3	16.1	12	26.4	16.6	36.5

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	165.1	6.50	190.5	7.50	215.9	8.50	241.3	9.50	292.1	11.50
B	(mm/in)	50	1.97	56	2.20	92	3.62	110	4.33	140	5.51
D	⁽³⁾ (mm/in)	12.5	0.49	17.5	0.69	22.5	0.89	35	1.38	45	1.77
Wt.	(kg/lb)	3.1	6.8	5	11.0	7.3	16.1	12	26.4	16.6	36.5

Figure Number Definitions - See page 4

- 1) D = 29,5 with integral stellite seat
- 2) D = 35 with integral stellite seat
- 3) Dimensions for piston & ball type; for swing see page 7



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

not applicable

Standards

Construction BS 5352
Flanged ASME B16.5, ASME B16.10
Test BS 6755 (Pt.1)

Connections

F Raised face (std.)
R Ring joint

X) Gasket=Spiral wound Std. RJ gasket available on request.

Typical Figure Number: PC15FA58GB - A105, RF Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	215.9	8.50	228.6	9.00	254.0	10.00	304.8	12.00	368.3	14.50
B	(mm/in)	93	3.66	109	4.29	122	4.80	158	6.22	171	6.73
D ⁽¹⁾	(mm/in)	11	0.43	14.5	0.57	19	0.75	31	1.22	37.5	1.48
Wt.	(kg/lb)	7.5	16.5	10.9	24.0	14.4	31.7	30.3	67.0	44.0	96.8

Figure Number Definitions - See page 4

1) Dimensions for piston & ball type; swing see page 8

Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

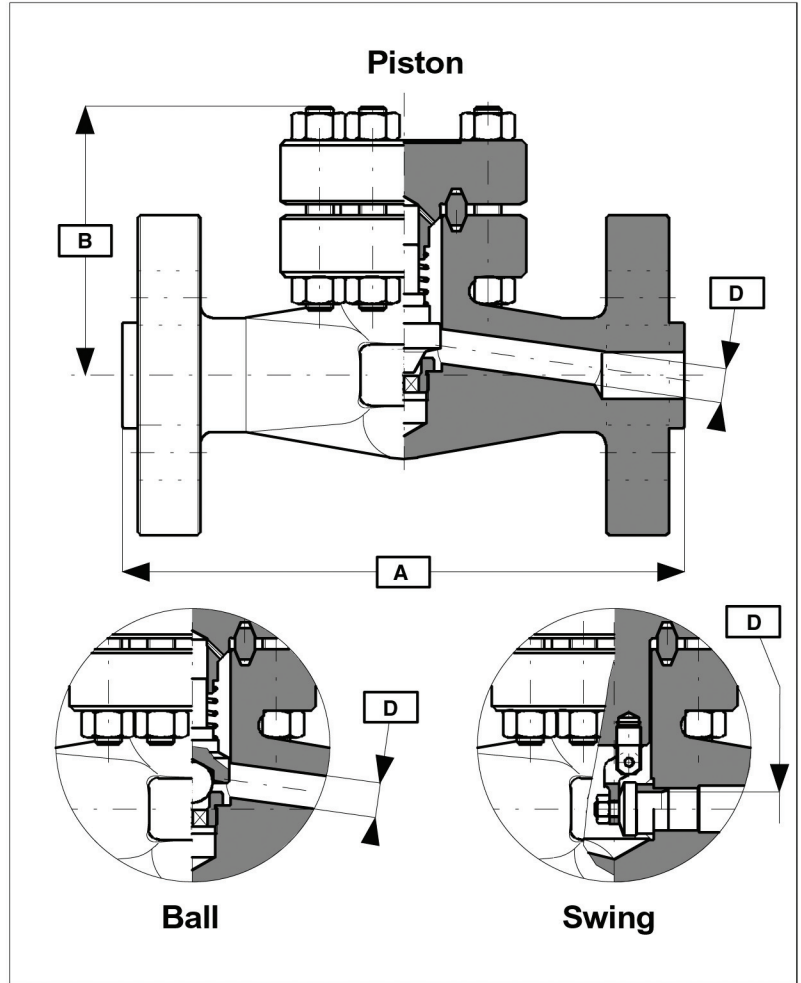
Hydrostatic: (minimum)
Body - 9275 p.s.i.
Seat - 6800 p.s.i.
Pneumatic:
not applicable

Standards

Construction ASME B16.34
Flanged ASME B16.5, ASME B16.10
Test API 598-ASME B16.34

Connections

F Raised face (std.)
R Ring joint



Typical Figure Number: PC25FA58GB - A105, Piston check, RF Flanged, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	263.5	10.37	273.0	10.75	308.0	12.13	384.2	15.13	450.8	17.75
B	(mm/in)	93	3.66	109	4.29	122	4.80	158	6.22	171	6.73
D	⁽¹⁾ (mm/in)	10	0.39	13	0.51	18	0.71	25	0.98	34	1.33
Wt.	(kg/lb)	8.5	18.7	12.5	27.5	19.2	42.2	40.8	89.8	59.0	129.8

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

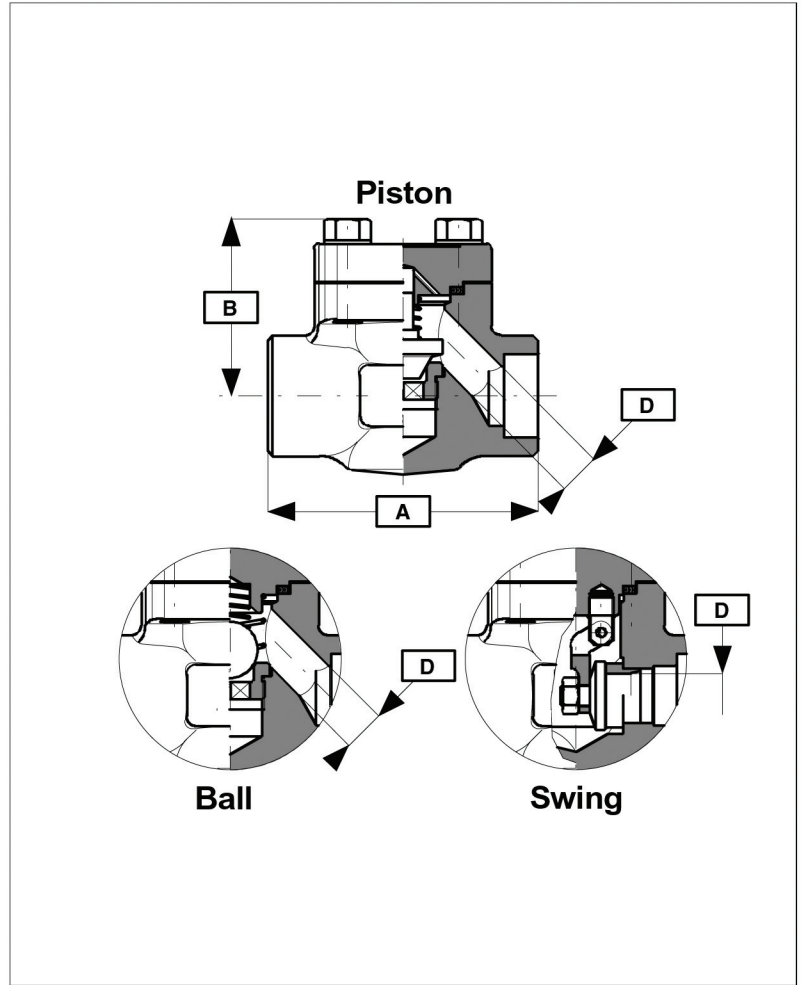
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
not applicable

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT



Typical Figure Number: PC08SA58GB - A105, Piston Check, Socket weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1 1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69
B	(mm/in)	50	1.97	56	2.20	74	2.91	79	3.11	100	3.94	109	4.29
D	⁽⁴⁾ (mm/in)	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	1.1	2.4	1.8	4.0	2.6	5.7	3.6	7.9	5.5	12.1	8.4	18.5

		SPECIAL PORT															
		1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1 1/2"		2"	
A	(mm/in)	80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B	(mm/in)	50	1.97	50	1.97	56	2.20	74	2.91	79	3.11	100	3.94	109	4.29	135	5.31
D	⁽⁴⁾ (mm/in)	6.5	0.26	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26	38 ⁽³⁾	1.50
Wt.	(kg/lb)	1.1	2.4	1.1	2.4	1.8	4.0	2.6	5.7	3.6	7.9	5.5	12.1	8.4	18.5	11.8	26.0

Figure Number Definitions - See page 4

1) D = 29.5 with integral stellited seat
2) D = 35 with integral stellited seat
3) D = 42 with integral stellited seat

4) Dimensions for piston & ball type; for swing see page 10

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

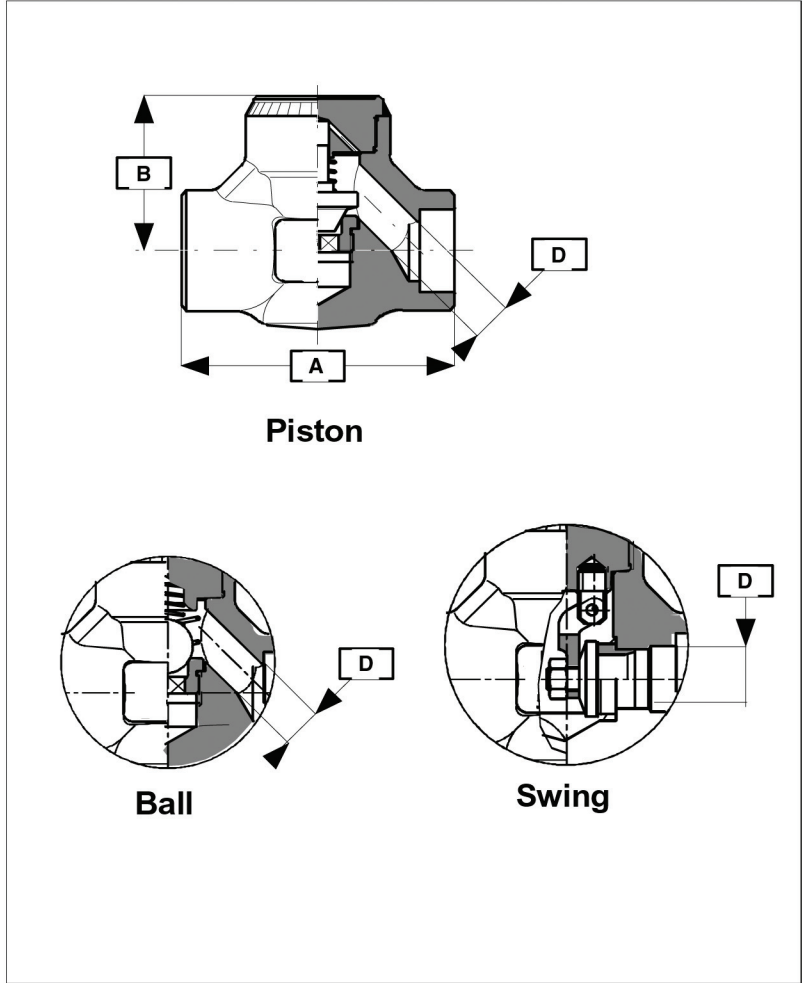
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
not applicable

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT



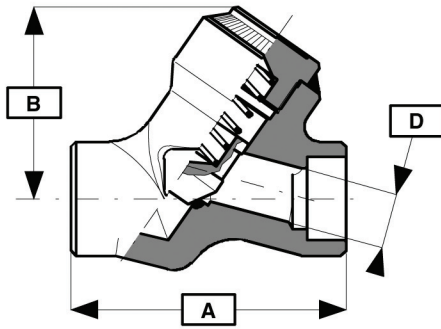
Typical Figure Number: PC08SA58GW - A105, Piston Check, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69
B	(mm/in)	48	1.89	51	2.01	63	2.48	71	2.80	86	3.39	99	3.90
D	(mm/in)	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	0.8	1.8	1.1	2.4	2.0	4.4	3.3	7.3	4.9	10.8	7.3	16.1

		SPECIAL PORT															
		1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B	(mm/in)	48	1.89	48	1.89	51	2.01	63	2.48	71	2.80	86	3.39	99	3.90	121	4.76
D	(mm/in)	6.5	0.26	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26	38 ⁽³⁾	1.50
Wt.	(kg/lb)	0.8	1.8	0.8	1.8	1.1	2.4	2.0	4.4	3.3	7.3	4.9	10.8	7.3	16.1	11.9	26.2

Figure Number Definitions - See page 4

- 1) D = 29.5 with integral stellite seat
- 2) D = 35 with integral stellite seat
- 3) D = 42 with integral stellite seat



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hyrostatic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Pneumatic:

not applicable

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

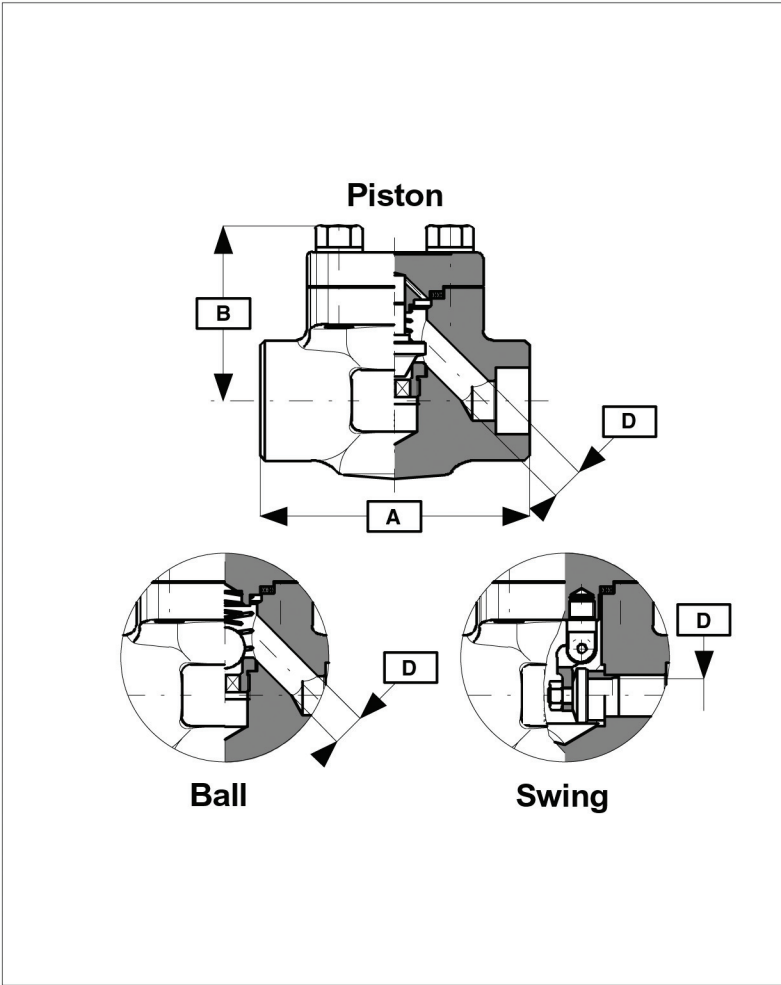
Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: YL08SA58GB - A105, Socket Weld, Trim 8

CONVENTIONAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"	
A (mm/in)	80	3.15	80	3.15	80	3.15	100	3.94	110	4.33	120	4.72	160	6.30	190	7.48
B (mm/in)	58	2.28	58	2.28	58	2.28	74	2.91	80	3.15	86	3.39	118	4.65	142	5.59
D (mm/in)	8	0.31	9	0.35	12.5	0.49	18	0.7	22.5	0.89	29.5	1.16	35	1.38	45.5	1.79
Wt. (kg/lb)	1.5	3.3	1.5	3.3	1.5	3.3	2.5	5.5	3.0	6.6	5.5	12.1	6.0	13.2	9.0	19.8

Figure Number Definitions - See page 4



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

not applicable

Standards

Construction API 602 As applicable
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598

Connections

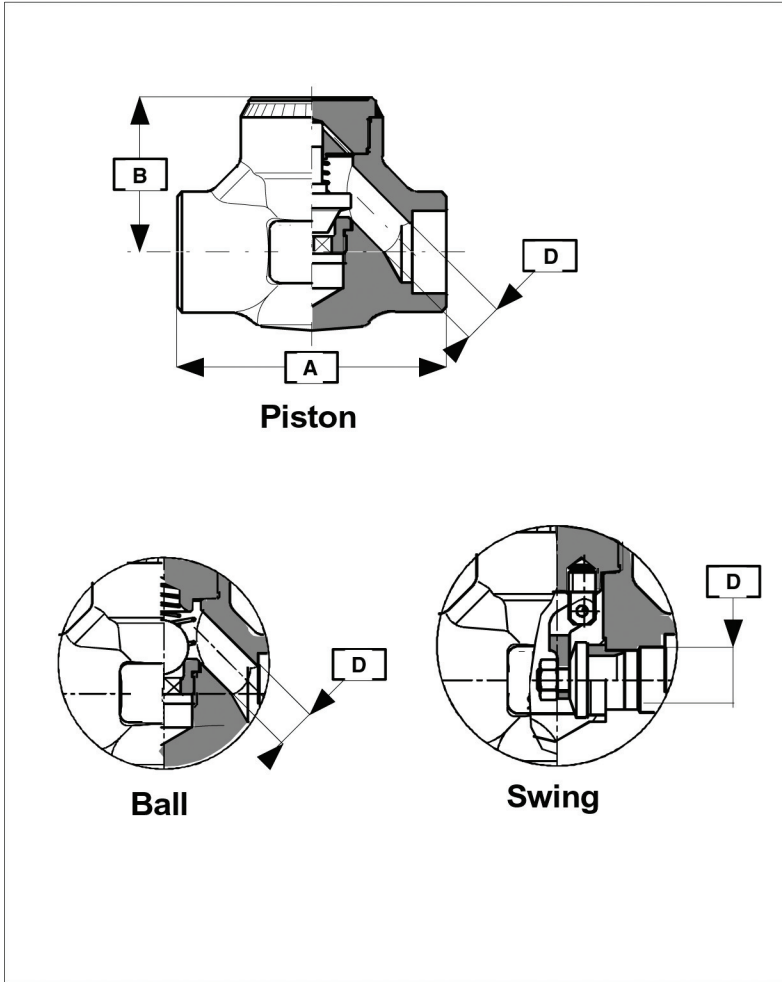
S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: PC15SA58GB - A105, Piston Check, Socket Weld, Trim 8

CONVENTIONAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B (mm/in)	56	2.20	56	2.20	56	2.20	74	2.91	79	3.11	100	3.94	109	4.29	135	5.31
D ⁽¹⁾ (mm/in)	6.5	0.26	9	0.35	10	0.39	13.5	0.53	18	0.71	24	0.94	28	1.10	35	1.38
Wt. (kg/lb)	2.2	4.8	2.2	4.8	2.2	4.8	3.0	6.6	4.1	9.0	6.2	13.6	9.4	20.7	13.3	29.26

Figure Number Definitions - See page 4

1) Dimensions for piston & ball type; for swing see page 14



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)
Body - 5575 p.s.i.
Seat - 4100 p.s.i.
Pneumatic:
not applicable

Standards

Construction API 602 As applicable
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598

Connections

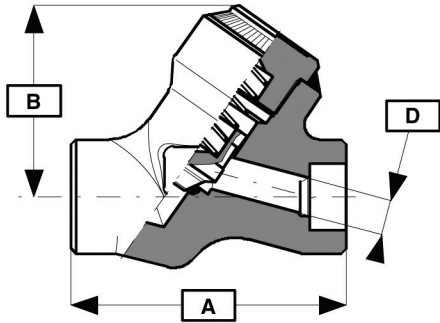
S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: PC15SA58GW - A105, Piston check, Socket Weld, Trim 8

CONVENTIONAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B (mm/in)	50	1.97	50	1.97	50	1.97	56	2.20	67	2.64	82	3.23	99	3.90	121	4.76
D ⁽¹⁾ (mm/in)	6.5	0.26	9	0.35	10	0.39	13.5	0.53	18	0.71	24	0.94	29	1.14	35	1.38
Wt. (kg/lb)	1.4	3.1	1.4	3.1	1.4	3.1	2.3	5.1	3.8	8.4	5.6	12.3	8.3	18.3	13.4	29.5

Figure Number Definitions - See page 4

1) Dimensions for piston & ball type; for swing see page 15



Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

not applicable

Standards

Construction	BS 5352-ASME B16.34
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Test	API 598-BS 6755 (Pt. 1)

Connections

S	Socket weld(SW)
T	Threaded NPT
X	SW-x-NPT

Typical Figure Number: YL15SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	100	3.94	110	4.33	120	4.72	160	6.30	190	7.48	190	7.48
B	(mm/in)	80	3.15	87	3.43	90	3.54	121	4.76	146	5.75	146	5.75
D	(mm/in)	12	0.47	16	0.63	20	0.79	28	1.10	32	1.26	43	1.69
Wt.	(kg/lb)	2.5	5.5	3.0	6.6	4.5	9.9	5.5	12.1	8	17.6	9.5	20.9

Figure Number Definitions - See page 4

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

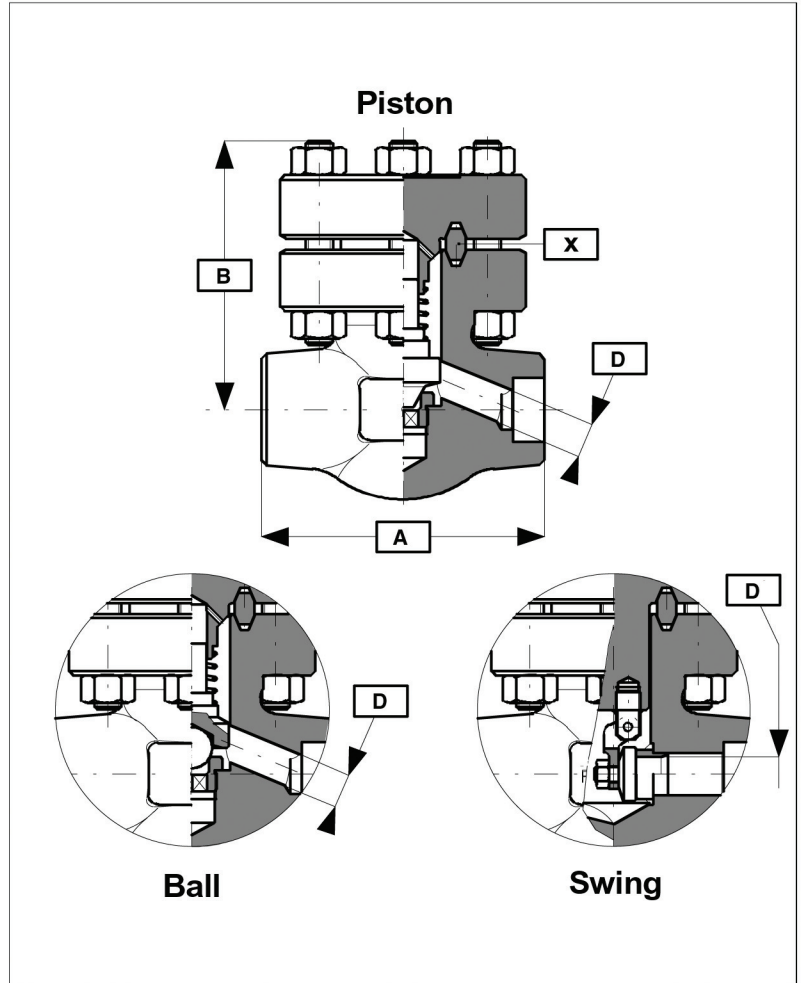
not applicable

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT



X) Gasket=Spiral wound Std. RJ gasket available on request.

Typical Figure Number: PCL5SA58GB - A105, Piston Check, Socket Weld, Trim 8

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	110	4.33	115	4.53	130	5.12	210	8.27	240	9.45
B	(mm/in)	93	3.66	109	4.29	122	4.80	158	6.22	171	6.73
D	⁽¹⁾ (mm/in)	11	0.43	14.5	0.57	19	0.75	31	1.22	37.5	1.48
Wt.	(kg/lb)	3.8	8.4	5.9	13.0	6.8	15.0	18.8	41.4	23.7	52.1

Figure Number Definitions - See page 4 1) Dimensions for piston & ball type; For swing see page 28

Ratings (ASTM A105)

1500 p.s.i. @ 850°F
3705 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 5575 p.s.i.
Seat - 4100 p.s.i.

Pneumatic:

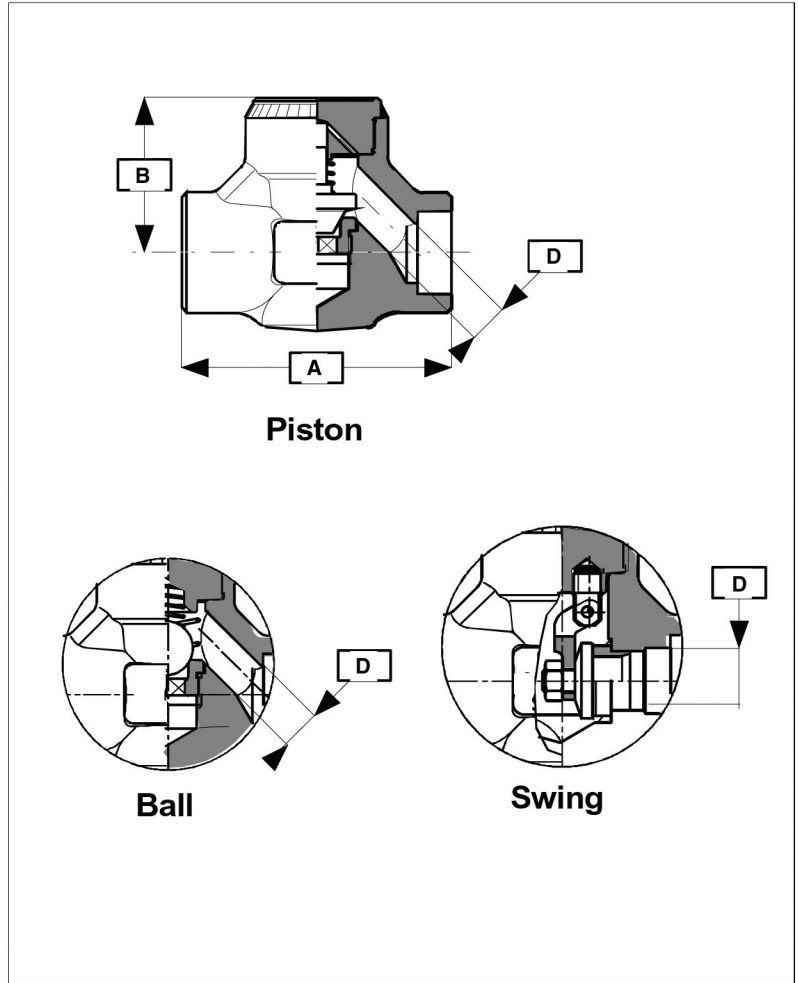
not applicable

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

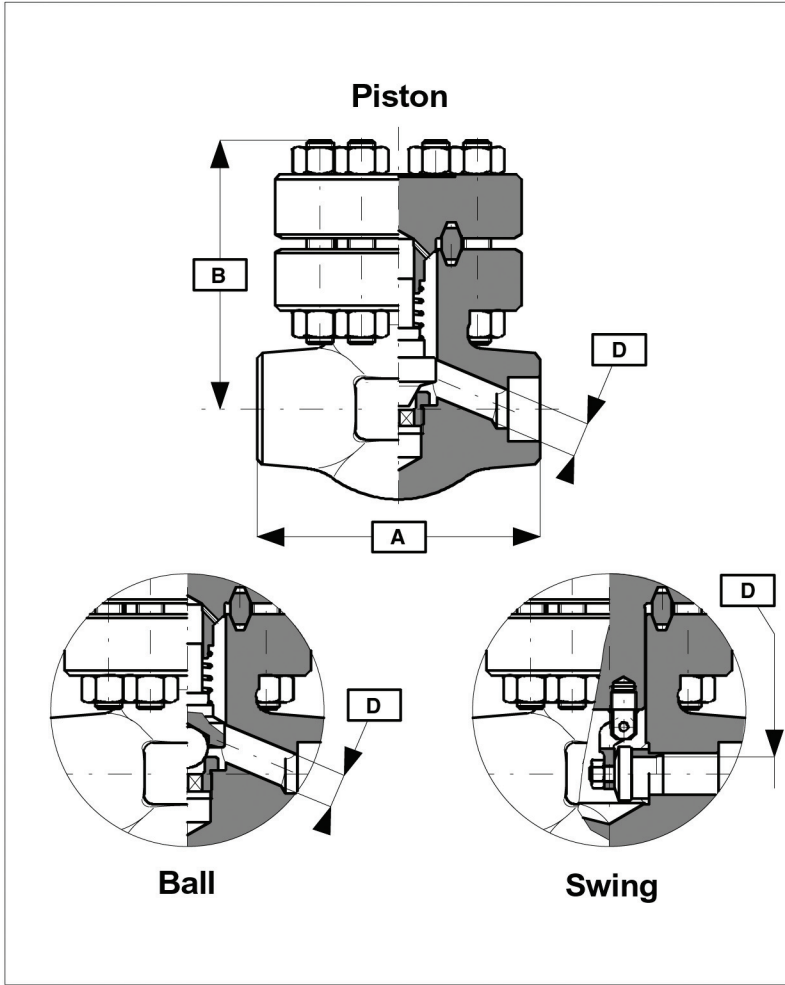


Typical Figure Number: PCL5SA58GW - A105, Piston Check, Socket Weld, Trim 8

		SPECIAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	90	3.54	110	4.33	127	5.00	170	6.69	210	8.26
B	(mm/in)	51	2.01	57	2.24	62	2.44	90	3.54	117	4.61
D ⁽¹⁾	(mm/in)	11	0.43	14.5	0.57	19	0.75	31	1.22	37.5	1.48
Wt.	(kg/lb)	1.4	3.1	2.4	5.3	3.8	8.4	8.0	17.6	14.5	31.9

1) Dimensions for piston & ball type; for swing see page 16

Figure Number Definitions - See page 4



Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

not applicable

Standards

Construction	ASME B16.34
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Test	API 598-ASME B16.34

Connections

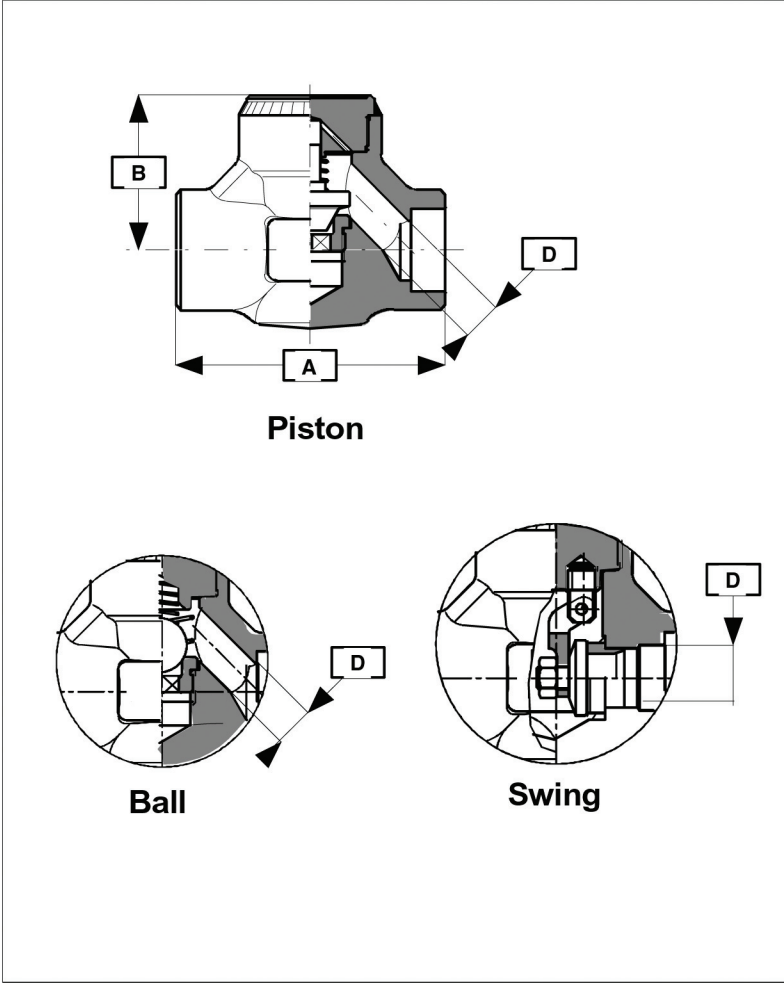
S	Socket weld (SW)
T	Threaded NPT
X	SW-x-NPT

Typical Figure Number: PC25SA58GB - A105, Piston Check, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A (mm/in)		110	4.33	115	4.53	130	5.12	210	8.27	240	9.45
B (mm/in)		93	3.66	109	4.29	122	4.80	158	6.22	171	6.73
D ⁽¹⁾ (mm/in)		10	0.39	13	0.51	18	0.71	25	0.98	34	1.33
Wt. (kg/lb)		4.0	8.8	6.2	13.6	7.2	15.8	19.4	42.7	24.5	53.9

Figure Number Definitions - See page 4

1) Dimensions for piston & ball type; For swing see page 18



Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

not applicable

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

Connections

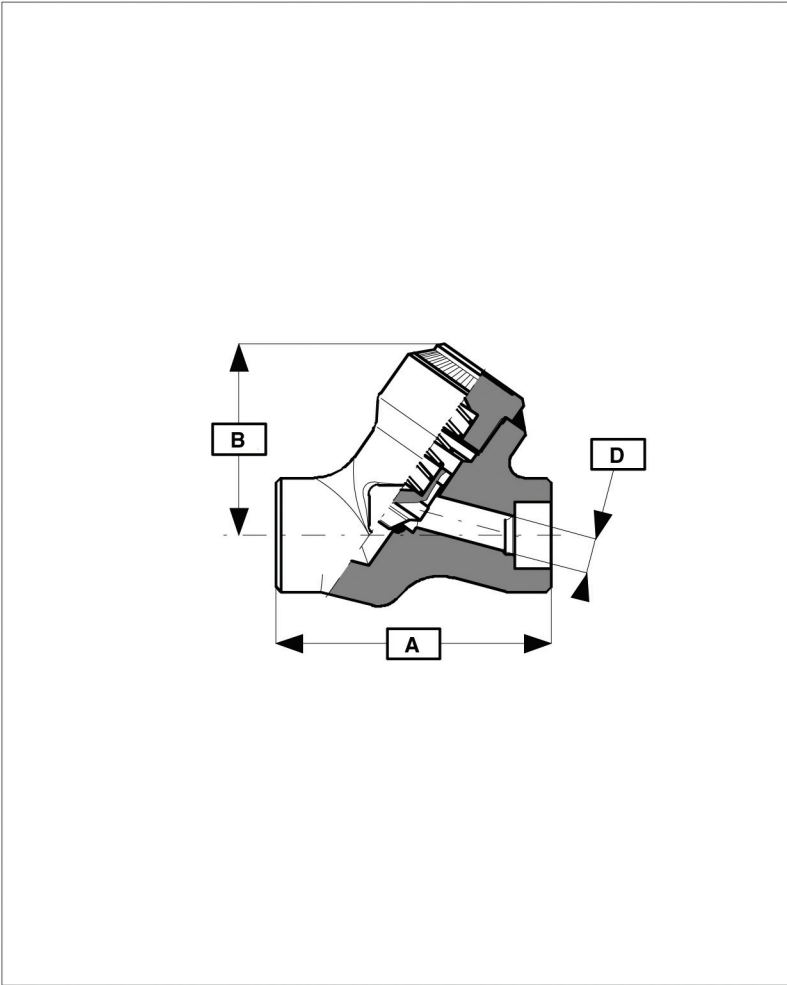
S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: PC25SA58GW - A105, Piston Checks, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A (mm/in)		110	4.33	127	5.00	155	6.10	210	8.27	240	9.45
B (mm/in)		60	2.36	71	2.80	85	3.35	120	4.72	130	5.12
D ⁽¹⁾ (mm/in)		10	0.39	13	0.51	18	0.71	25	0.98	34	1.33
Wt. (kg/lb)		2.0	4.4	3.2	7.0	4.8	10.6	9.6	21.1	16	35.2

Figure Number Definitions - See page 4

1) Dimensions for piston & ball type; for swing see page 19



Ratings (ASTM A105)

2500 p.s.i. @ 850°F
6170 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 9275 p.s.i.
Seat - 6800 p.s.i.

Pneumatic:

not applicable

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

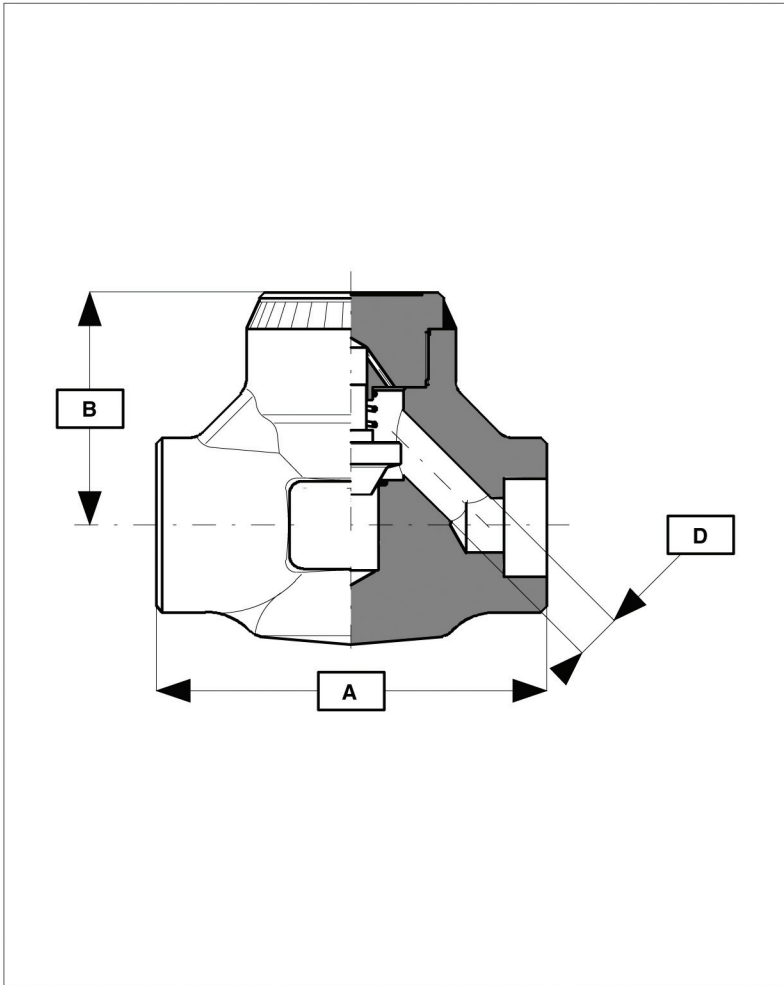
Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: YL25SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	110	4.33	120	4.72	120	4.72	190	7.48	190	7.48	210	8.27
B	(mm/in)	87	3.43	92	3.62	92	3.62	146	5.75	146	5.75	158	6.22
D	(mm/in)	10	0.39	13	0.51	18	0.73	24	0.97	28	1.14	35	1.38
Wt.	(kg/lb)	3.2	7.0	4.5	9.9	4.5	9.9	9.5	20.9	9.5	20.9	12.0	26.4

Figure Number Definitions - See page 4



Ratings (ASTM A105)

4010 p.s.i. @ 850°F
11110 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 16650 p.s.i.
Seat - 12210 p.s.i.

Pneumatic:

not applicable

Standards

Construction ASME B16.34
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-ASME B16.34

Connections

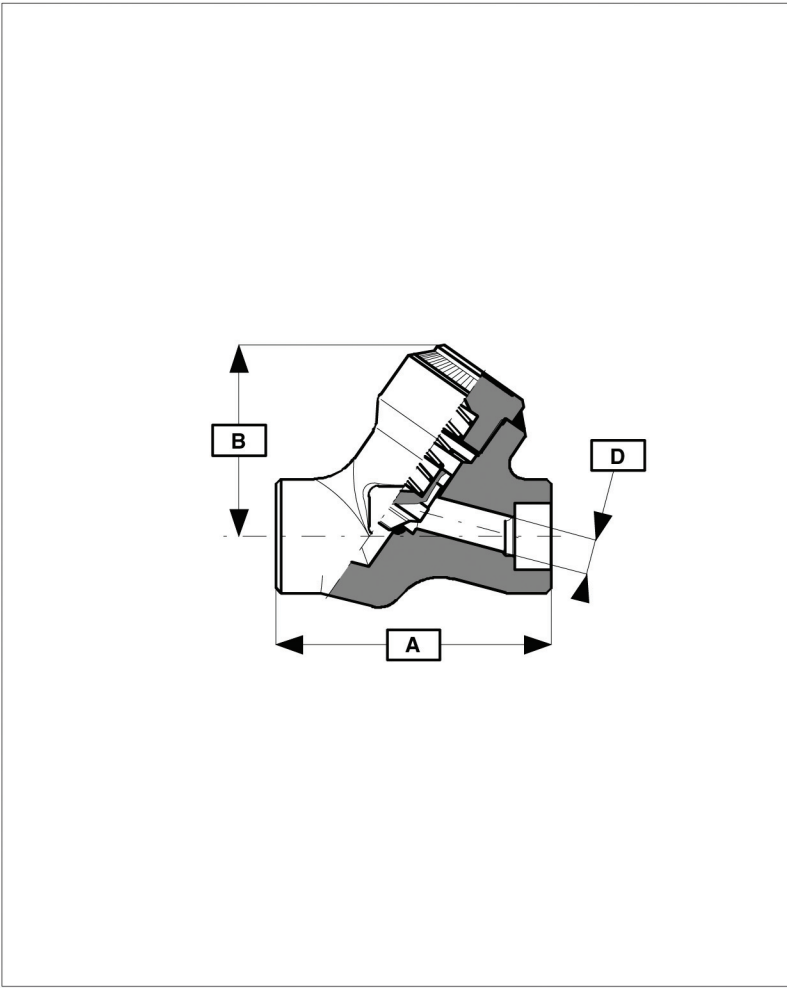
S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: PC45SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	127	5.00	155	6.10	170	6.69	240	9.45	240	9.45
B	(mm/in)	75	2.95	90	3.54	125	4.92	145	5.71	140	5.51
D ⁽¹⁾	(mm/in)	7	0.28	11	0.43	15	0.59	25	0.98	30	1.33
Wt.	(kg/lb)	3.2	7.0	4.8	10.6	8	17.6	16	35.2	26	57.2

Figure Number Definitions - See page 4

1) Dimensions for piston & ball type; for swing see page 19



Ratings (ASTM A105)

4010 p.s.i. @ 850°F
11110 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 16650 p.s.i.
Seat - 12210 p.s.i.

Pneumatic:

not applicable

Standards

Construction	ASME B16.34
Socket weld	ASME B16.11
Threaded	ASME B1.20.1
Test	API 598-ASME B16.34

Connections

S	Socket weld(SW)
T	Threaded NPT
X	SW-x-NPT

Typical Figure Number: YL45SA58GW - A105, Socket Weld, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	120	4.72	160	6.30	190	7.48	210	8.27	230	9.06
B	(mm/in)	90	3.54	120	4.72	145	5.71	160	6.30	200	7.87
D	(mm/in)	7	0.28	11	0.43	14	0.55	25	0.98	30	1.18
Wt.	(kg/lb)	4.5	9.9	7.5	16.5	9.5	20.9	12.0	26.4	23.0	50.6

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

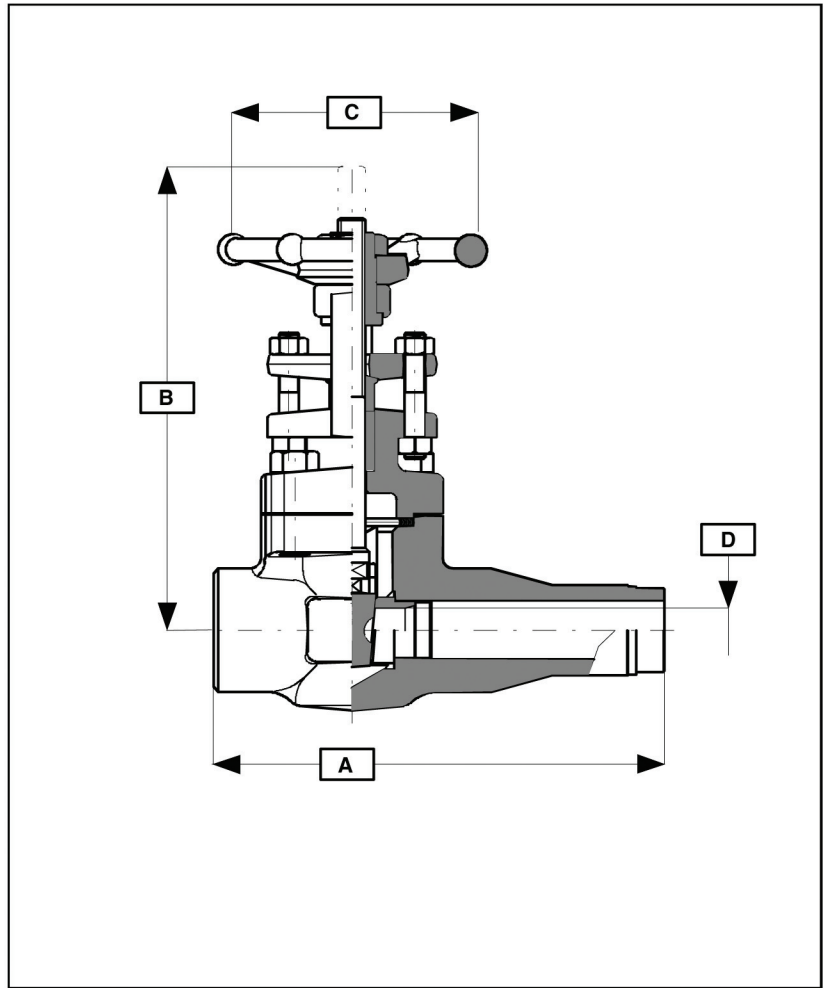
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, API 606
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

SW x EXT SW
SW x EXT TH
SW x EXT BW
TH x EXT SW
TH x EXT TH
TH x EXT BW



Typical Figure Number: GA08AA58GB - A105, SWxExtSW, Trim 8

		CONVENTIONAL PORT									
		1/2"		3/4"		1"		1-1/2"		2"	
A	(mm/in)	145	5.71	160	6.30	190	7.48	224	8.82	240	9.45
B	(mm/in)	145	5.70	156	6.14	186	7.32	255	10.04	273	10.75
C	(mm/in)	90	3.54	90	3.54	100	3.94	140	5.51	140	5.51
D	(mm/in)	10	0.39	14	0.55	18	0.71	31	1.22	36.5	1.44
Wt.	(kg/lb)	1.9	4.2	2.4	5.3	3.8	8.4	7.7	16.9	7.7	16.9

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

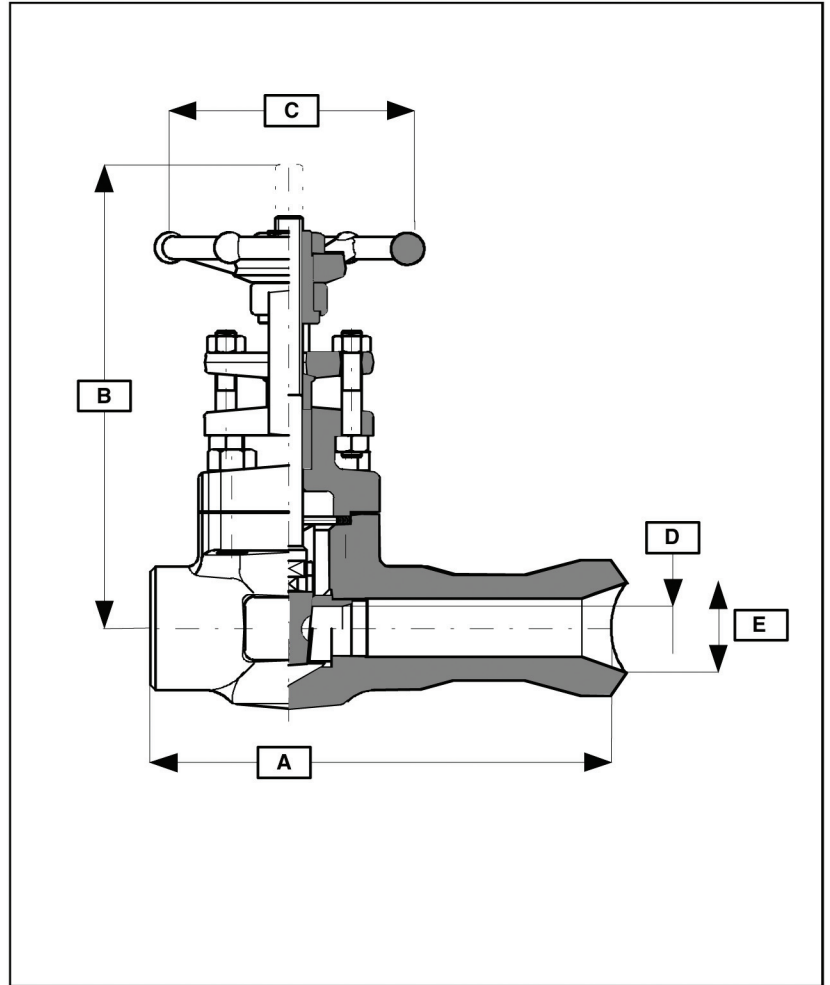
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602, API 606
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

SW x EXT WOL
TH x EXT WOL



Typical Figure Number: GA08PA58GB - A105, SW x Ext WOL, Trim 8

		CONVENTIONAL PORT										
		1/2"		3/4"		1"		1-1/4"	1-1/2"	2" ⁽¹⁾		
A	(mm/in)	208	8.19	218	8.58	244	9.60		263	10.35	268	10.55
B	(mm/in)	208	5.90	156	6.14	186	7.32		255	10.04	273	10.75
C	(mm/in)	90	3.54	90	3.54	100	3.94		140	5.51	140	5.51
D	(mm/in)	10	0.39	14	0.55	18	0.71		31	1.22	36.5	1.44
E	(mm/in)	22	0.87	30	1.18	36	1.42		50	1.97	65	2.56
Wt.	(kg/lb)	2.5	5.5	2.8	6.2	5	11		9.8	21.56	13.5	29.7

1) 2" : WELDED EXTENSION

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Pneumatic:

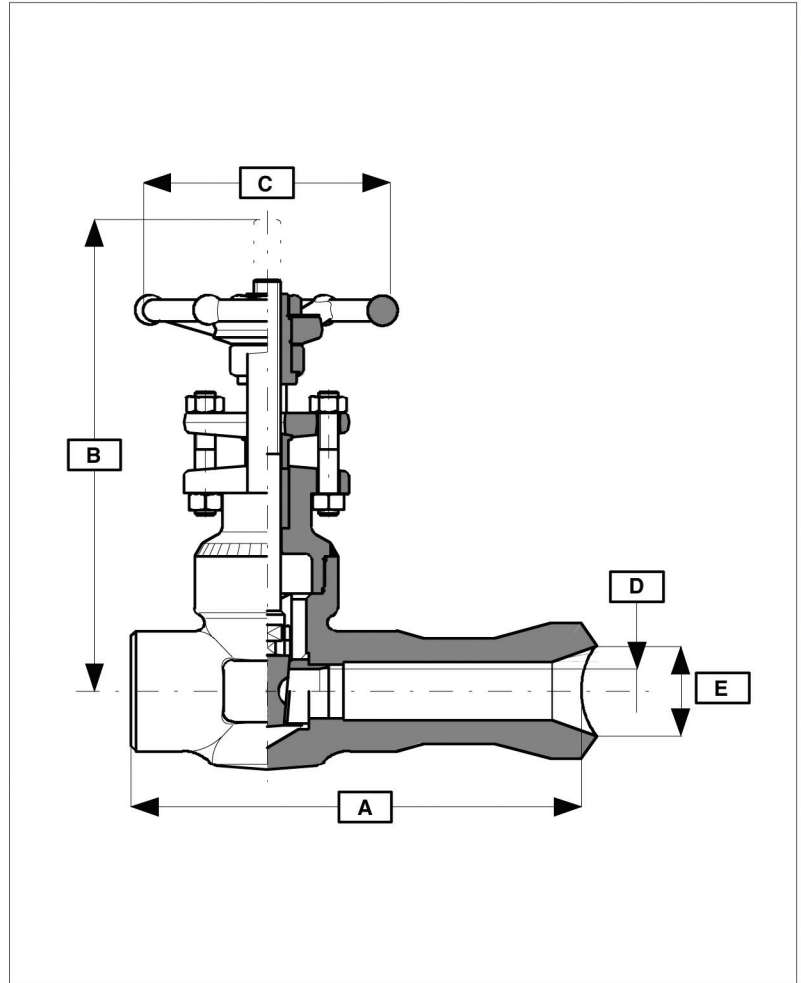
Seat - 85 p.s.i.

Standards

Construction API 602, API 606
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

SW x EXT WOL
TH x EXT WOL



Typical Figure Number: GA08PA58GW - A105, SW x Ext WOL, Trim 8

		CONVENTIONAL PORT									
				3/4"		1"		1-1/2"		2" ⁽¹⁾	
A	(mm/in)	208	8.19	218	8.58	244	9.60	263	10.35	268	10.55
B	(mm/in)	150	5.90	157	6.18	188	7.40	248	9.76	274	10.79
C	(mm/in)	90	3.54	90	3.54	100	3.94	140	5.51	140	5.51
D	(mm/in)	10	0.39	14	0.55	18	0.71	31	1.22	36.5	1.44
E	(mm/in)	22	0.87	30	1.18	36	1.42	50	1.97	65	2.56
Wt.	(kg/lb)	2.2	4.84	2.5	5.5	4.7	10.3	9	19.8	12.7	27.94

1) 2": WELDED EXTENSION

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Pneumatic:

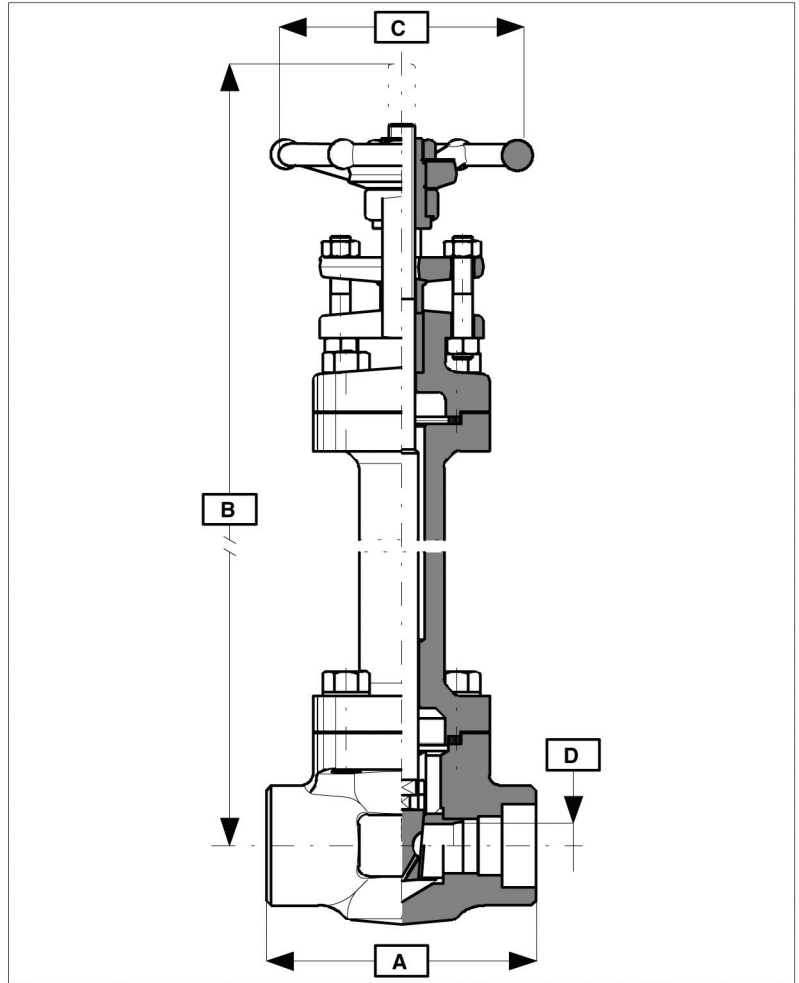
Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT
NOTE (1)



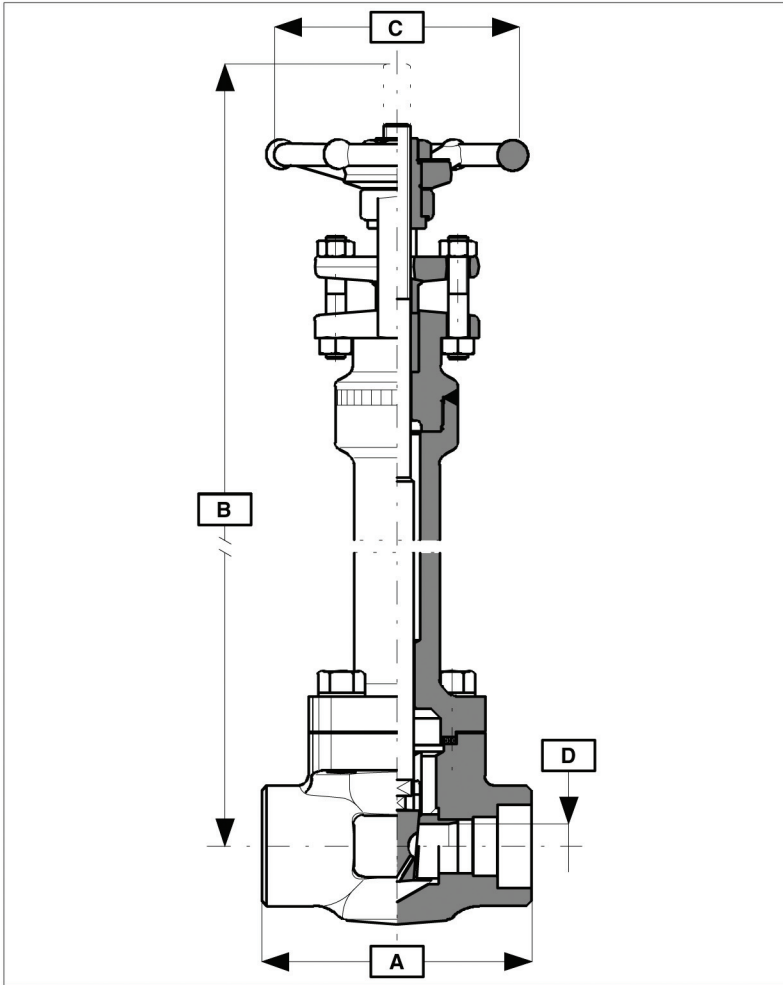
Typical Figure Number: GA08S6L2GG - Type 3161, Socket Weld, Trim 12

		CONVENTIONAL PORT							
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		
A (mm/in)		80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12		
B (mm/in)		333 13.11	367 14.45	406 15.98	463 18.23	508 20.00	534 21.02		
C (mm/in)		90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51		
D (mm/in)		10 0.39	14 0.55	18 0.71	24 0.94	31 1.22	36.5 1.44		
Wt. (kg/lb)		3.1 6.8	3.6 7.9	5.7 12.5	8.8 19.4	11.7 25.7	14.4 31.7		

		SPECIAL PORT							
		1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A (mm/in)		80 3.15	80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12	150 5.91
B (mm/in)		333 13.11	333 13.11	367 14.45	406 15.98	463 18.23	508 20.00	534 21.02	658 25.91
C (mm/in)		90 3.54	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	200 7.87
D (mm/in)		9 0.35	10 0.39	14 0.55	18 0.71	24 0.94	31 1.22	36.5 1.44	48 1.89
Wt. (kg/lb)		3.1 6.8	3.1 6.8	3.6 7.9	5.7 12.5	8.8 19.4	11.7 25.7	14.4 31.7	22.2 49.0

Figure Number Definitions - See page 4

1) On request flanged ends can be supplied; body dimensions on page 5,6,7
2) For B Length per customer request, extension to be welded



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction API 602, BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT
NOTE (1)

Typical Figure Number: GA08S6L2GH - Type 316L, Socket Weld, Trim 12

CONVENTIONAL PORT														
			1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)			80	3.15	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12
B (mm/in)			333	13.11	367	14.45	406	15.98	463	18.23	508	20.00	534	21.02
C (mm/in)			90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D (mm/in)			10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44
Wt. (kg/lb)			3.1	6.8	3.6	7.9	5.7	12.5	8.8	19.4	11.7	25.7	14.4	31.7

SPECIAL PORT																
	1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)	80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12	150	5.91
B (mm/in)	330	12.99	333	13.11	367	14.45	406	15.98	463	18.23	508	20.00	534	21.02	658	25.91
C (mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D (mm/in)	9	0.35	10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44	48	1.89
Wt. (kg/lb)	3.1	6.8	3.1	6.8	3.6	7.9	5.7	12.5	8.8	19.4	11.7	25.7	14.4	31.7	22.2	48.8

Figure Number Definitions - See page 4

1) On request flanged ends can be supplied; body dimensions on page 5,6,7
2) For B Length per customer request, extension to be welded

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

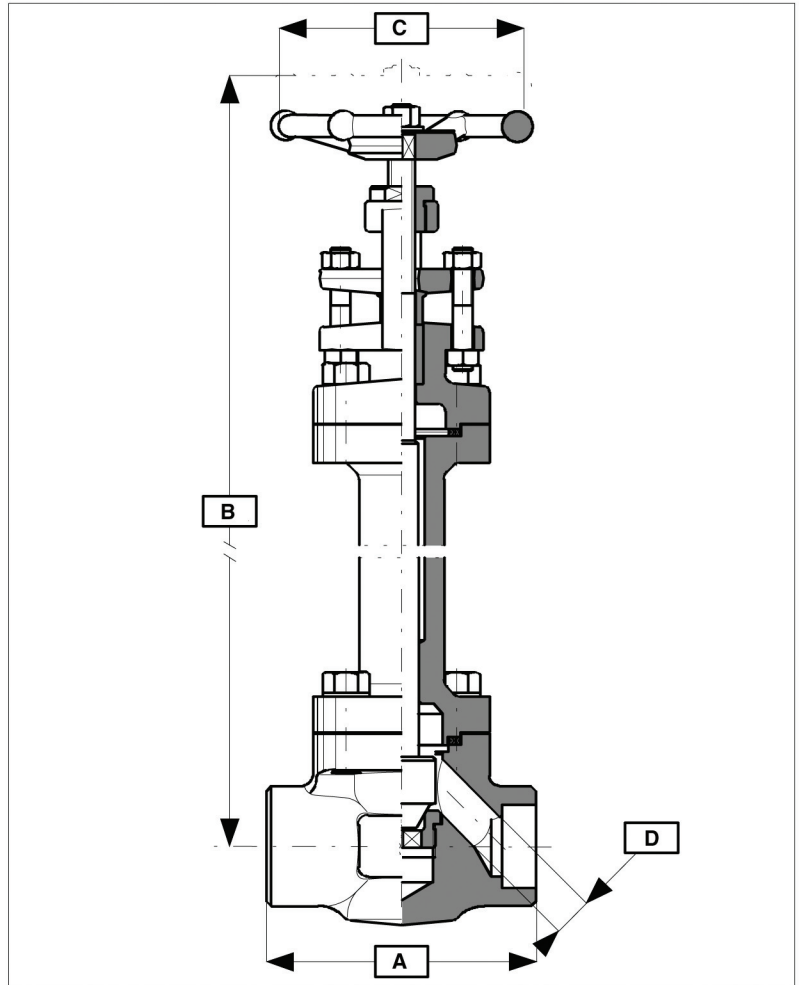
Hydrostatic: (minimum)
Body - 3000 p.s.i.
Seat - 2175 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT
NOTE (4)



Typical Figure Number: GL08S6L2GG - Type 316L, Socket Weld, Trim 12

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69
B	(mm/in)	333	13.11	365	14.37	401	15.79	462	18.19	507	19.96	531	20.91
C	(mm/in)	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D	(mm/in)	9	0.35	12	0.47	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	3.1	6.8	3.6	7.9	5.7	12.5	8.8	19.4	11.7	25.7	14.4	31.7

		SPECIAL PORT															
		1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B	(mm/in)	333	13.11	333	13.11	365	14.37	401	15.79	462	18.19	507	19.96	531	20.91	637	25.08
C	(mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D	(mm/in)	6.5	0.26	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26	40 ⁽³⁾	1.57
Wt.	(kg/lb)	3.1	6.8	3.1	6.8	3.6	7.9	5.7	12.5	8.8	19.4	11.7	25.7	14.4	31.7	22.2	49.0

Figure Number Definitions - See page 4

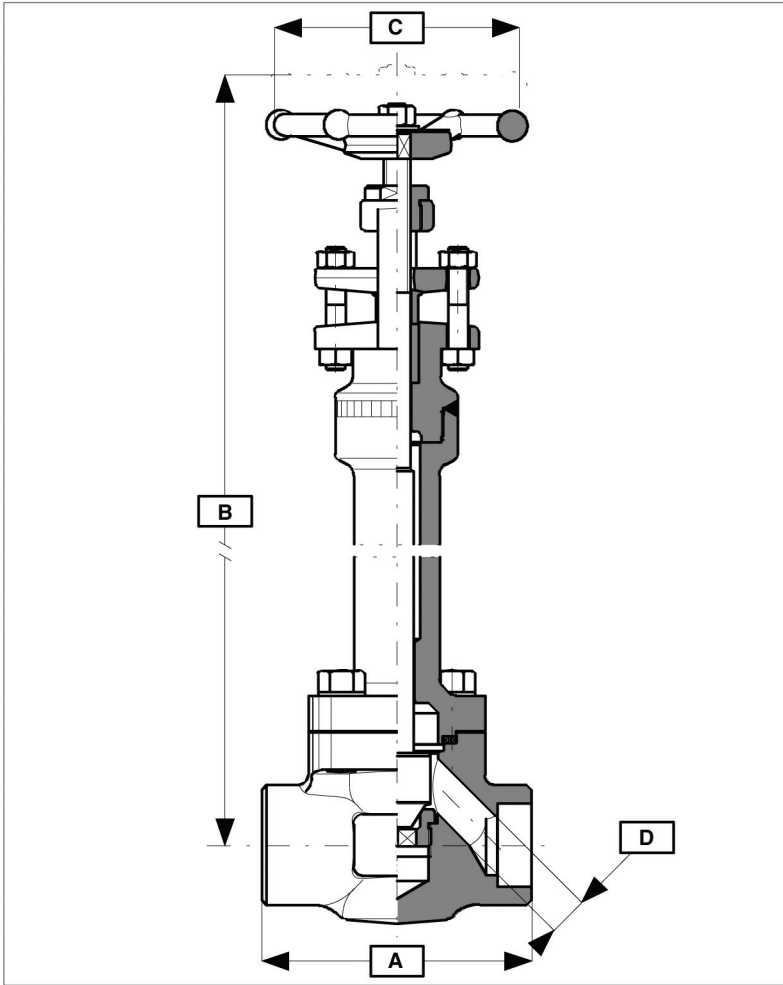
1) D = 29.5 with integral stellited seat

2) D = 35 with integral stellited seat

3) D = 45 with integral stellited seat

4) On request flanged ends can be supplied; body dimensions on page 21, 22, 23

5) For B Length per customer request, extension to be welded



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1975 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 3000 p.s.i.
Seat - 2175 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test BS 6755 (Pt.1)

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT
NOTE (4)

Typical Figure Number: GA08SA58GH - A105, Flanged, Trim 8

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)		80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69
B (mm/in)		333	13.11	365	14.37	401	15.79	462	18.19	507	19.96	531	20.91
C (mm/in)		90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D (mm/in)		9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt. (kg/lb)		2.6	5.7	3.1	6.8	5.2	11.4	8.6	18.9	12.4	27.3	15.7	34.5

		SPECIAL PORT															
		1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)		80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B (mm/in)		333	12.99	333	13.11	365	14.37	401	15.79	462	18.19	507	19.96	531	20.91	637	25.08
C (mm/in)		90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D (mm/in)		6.5	0.26	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26	40 ⁽³⁾	1.57
Wt. (kg/lb)		2.6	5.7	2.6	5.7	3.1	6.8	5.2	11.4	8.6	18.9	12.4	27.3	15.7	34.5	23.4	51.5

Figure Number Definitions - See page 4

1) D = 29.5 with integral stellited seat

2) D = 35 with integral stellited seat

3) D = 45 with integral stellited seat

4) On request flanged ends can be supplied; body dimensions on pages 21, 22, 23

5) For B Length per customer request, extension to be welded

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1440 p.s.i. @ 100°F

Test pressure (ASTM A105)

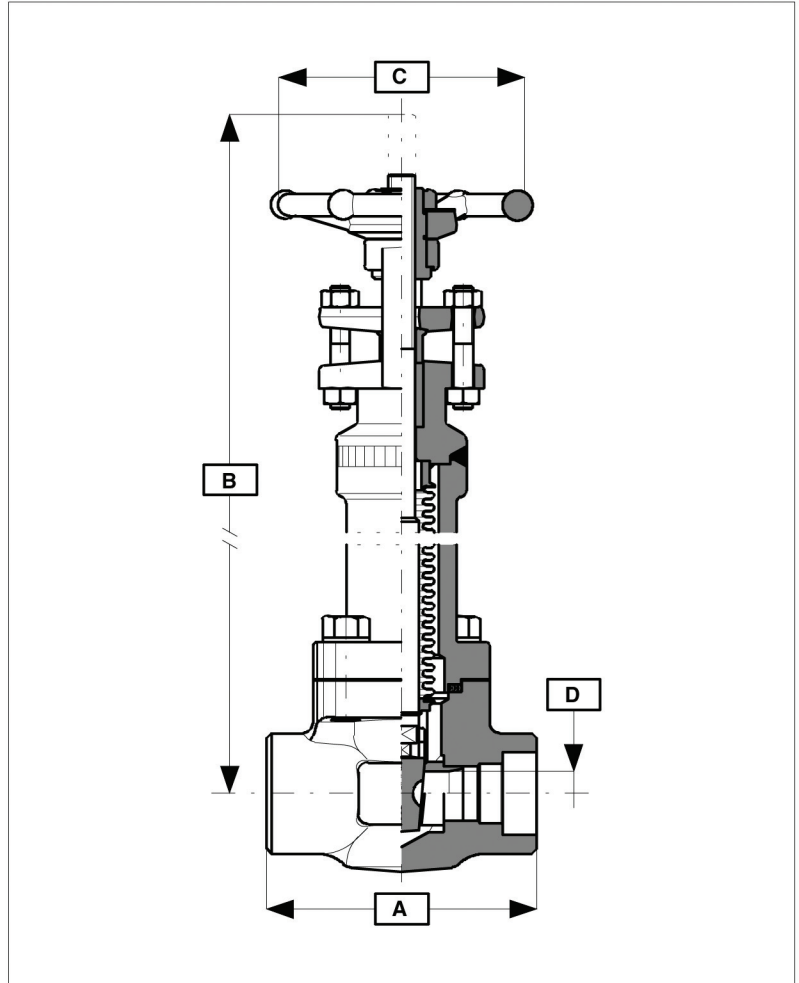
Hydrostatic: (minimum)
Body - 2180 p.s.i.
Seat - 1495 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction API 602-BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld(SW)
T Threaded NPT
X SW-x-NPT
NOTE (1)



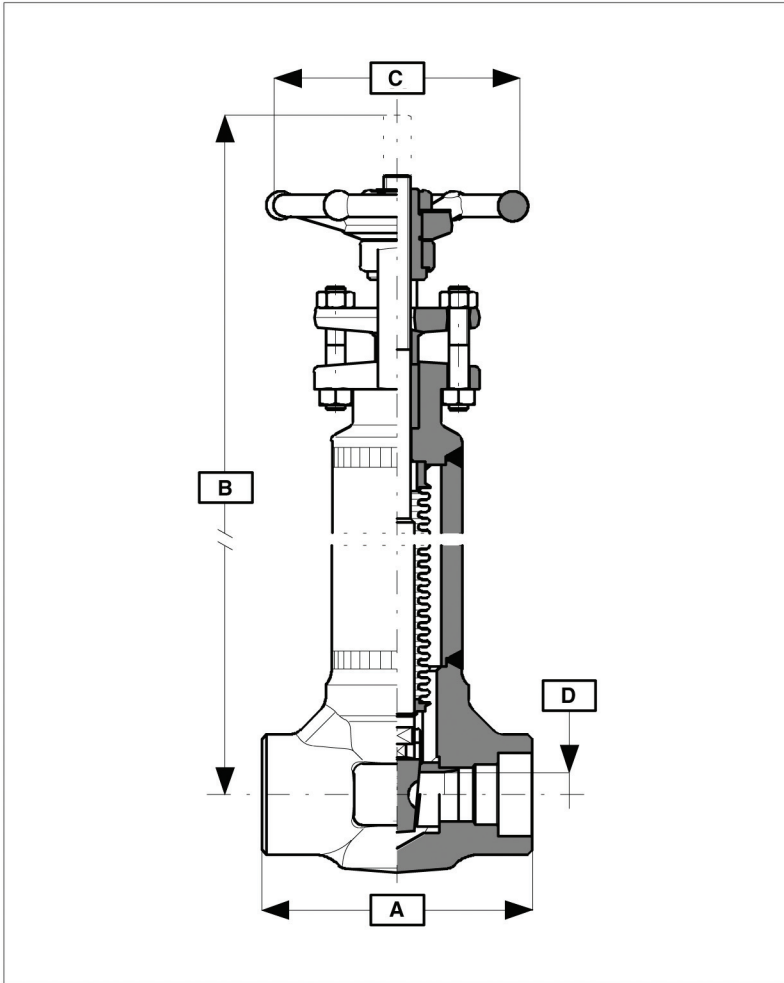
Typical Figure Number: BG08S6L2GB - Type 316L, Socket Weld, Trim 12

		CONVENTIONAL PORT							
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"		
A (mm/in)		80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12		
B (mm/in)		256 10.08	267 10.51	300 11.81	344 13.54	421 16.57	433 17.05		
C (mm/in)		90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51		
D (mm/in)		10 0.39	14 0.55	18 0.71	24 0.94	31 1.22	36.5 1.44		
Wt. (kg/lb)		3.0 6.6	3.4 7.5	5.3 11.7	7.7 16.9	11.0 24.2	14.2 31.2		

		SPECIAL PORT							
		1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A (mm/in)		80 3.15	80 3.15	90 3.54	110 4.33	127 5.00	127 5.00	130 5.12	150 5.91
B (mm/in)		256 10.08	256 10.08	267 10.51	300 11.81	344 13.54	421 16.57	433 17.05	560 22.05
C (mm/in)		90 3.54	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	200 7.87
D (mm/in)		8.5 0.33	10 0.39	14 0.55	18 0.71	24 0.94	31 1.22	36.5 1.44	48 1.89
Wt. (kg/lb)		3.0 6.6	3.0 6.6	3.4 7.5	5.3 11.7	7.7 17.1	11.0 24.4	14.2 31.2	25.0 55.0

1) On request flanged ends can be supplied; body dimensions on pages 5, 6, 7

Figure Number Definitions - See page 4



Ratings (ASTM A105)

800 p.s.i. @ 850°F
1440 p.s.i. @ 100°F

Test pressure (ASTM A105)

Hydrostatic: (minimum)

Body - 2180 p.s.i.
Seat - 1495 p.s.i.

Pneumatic:

Seat - 85 p.s.i.

Standards

Construction API 602-BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 602-BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

Typical Figure Number: BG08S6L2GW - Type 316L, Socket Weld, Trim 12

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)		80	3.15	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12
B (mm/in)		256	10.08	267	10.51	300	11.81	344	13.54	421	16.57	433	17.05
C (mm/in)		90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D (mm/in)		10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44
Wt. (kg/lb)		2.7	5.9	3.1	6.8	4.7	10.3	6.9	15.2	9.5	20.9	12.6	27.7

		SPECIAL PORT															
		1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A (mm/in)		80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	127	5.00	130	5.12	150	5.91
B (mm/in)		256	10.08	256	10.08	267	10.51	300	11.81	344	13.54	421	16.57	433	17.05	560	22.05
C (mm/in)		90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D (mm/in)		8.5	0.33	10	0.39	14	0.55	18	0.71	24	0.94	31	1.22	36.5	1.44	48	1.89
Wt. (kg/lb)		2.7	5.9	2.7	5.9	3.1	6.8	4.7	10.3	6.9	15.2	9.5	20.9	12.6	27.7	25.0	55.0

Figure Number Definitions - See page 4

Ratings (ASTM A105)

800 p.s.i. @ 850°F
1440 p.s.i. @ 100°F

Test pressure (ASTM A105)

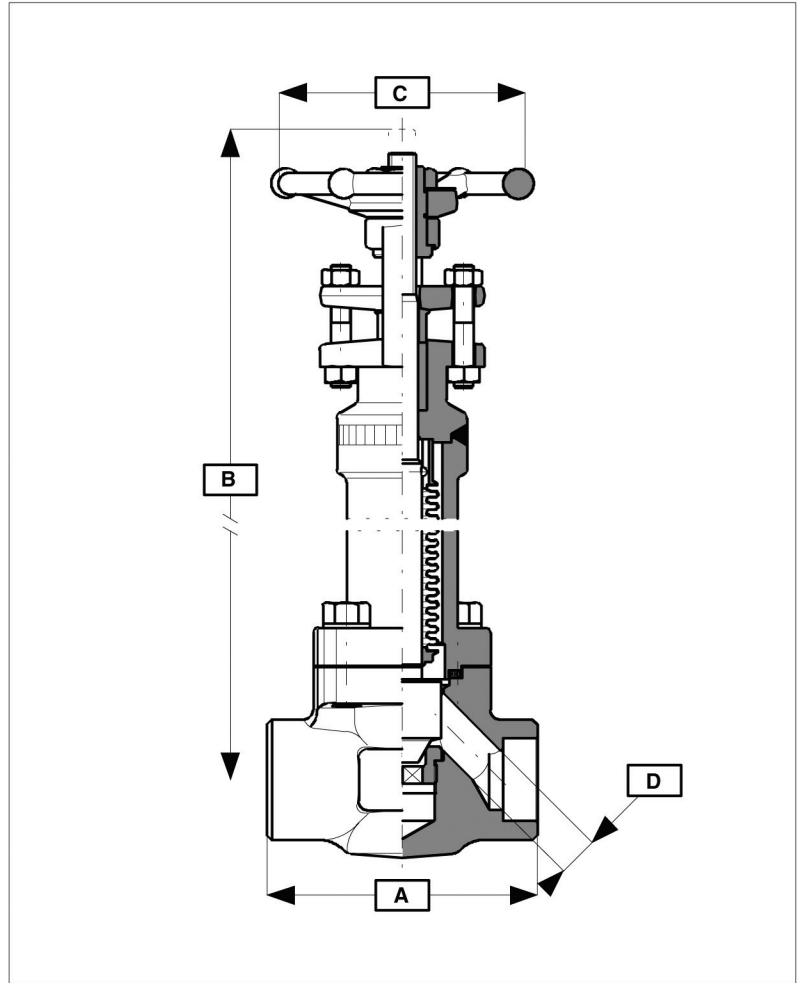
Hydrostatic: (minimum)
Body - 2180 p.s.i.
Seat - 1495 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards

Construction BS 5253
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 598-BS 6755 (Pt.1)

Connections

S Socket weld (SW)
T Threaded NPT
X SW-x-NPT
NOTE 4



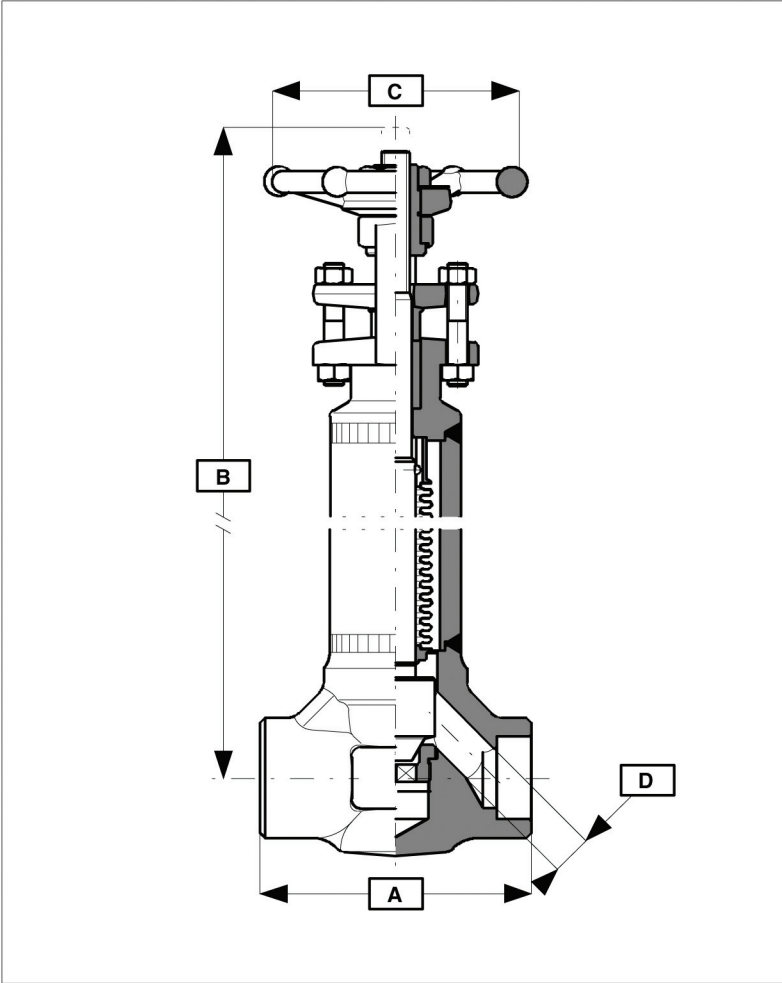
Typical Figure Number: BL08S6L2GB - Type 316L, Socket Weld, Trim 12

		CONVENTIONAL PORT											
		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69
B	(mm/in)	234	9.21	243	9.56	290	11.41	320	12.59	363	14.29	389	15.31
C	(mm/in)	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51
D	(mm/in)	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26
Wt.	(kg/lb)	2.5	5.5	2.8	6.2	5.2	11.4	7.5	16.5	11.4	25.1	15.4	33.9

		SPECIAL PORT															
		1/4"		3/8"		1/2"		3/4"		1"		1-1/4"		1-1/2"		2"	
A	(mm/in)	80	3.15	80	3.15	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
B	(mm/in)	234	9.21	234	9.21	243	9.56	290	11.41	320	13.04	363	14.29	389	15.31	442	17.40
C	(mm/in)	90	3.54	90	3.54	90	3.54	100	3.94	120	4.72	140	5.51	140	5.51	200	7.87
D	(mm/in)	6	0.24	9	0.35	12.5	0.49	17.5	0.69	22.5	0.89	28 ⁽¹⁾	1.10	32 ⁽²⁾	1.26	40 ⁽³⁾	1.57
Wt.	(kg/lb)	2.6	5.7	2.6	5.7	2.9	6.4	5.3	11.7	7.6	16.7	11.5	25.3	15.5	34.1	23.4	51.5

Figure Number Definitions - See page 4

- 1) D = 29.5 with integral stellited seat
- 2) D = 35 with integral stellited seat
- 3) D = 45 with integral stellited seat
- 4) On request flanged ends can be supplied; body dimensions on pages 21, 22, 23



Ratings (ASTM A105)
800 p.s.i. @ 850°F
1440 p.s.i. @ 100°F

Test pressure (ASTM A105)
Hydrostatic: (minimum)
Body - 2180 p.s.i.
Seat - 1495 p.s.i.
Pneumatic:
Seat - 85 p.s.i.

Standards
Construction BS 5352
Socket weld ASME B16.11
Threaded ASME B1.20.1
Test API 589-BS 6755 (Pt.1)

Connections
S Socket weld (SW)
T Threaded NPT
X SW-x-NPT

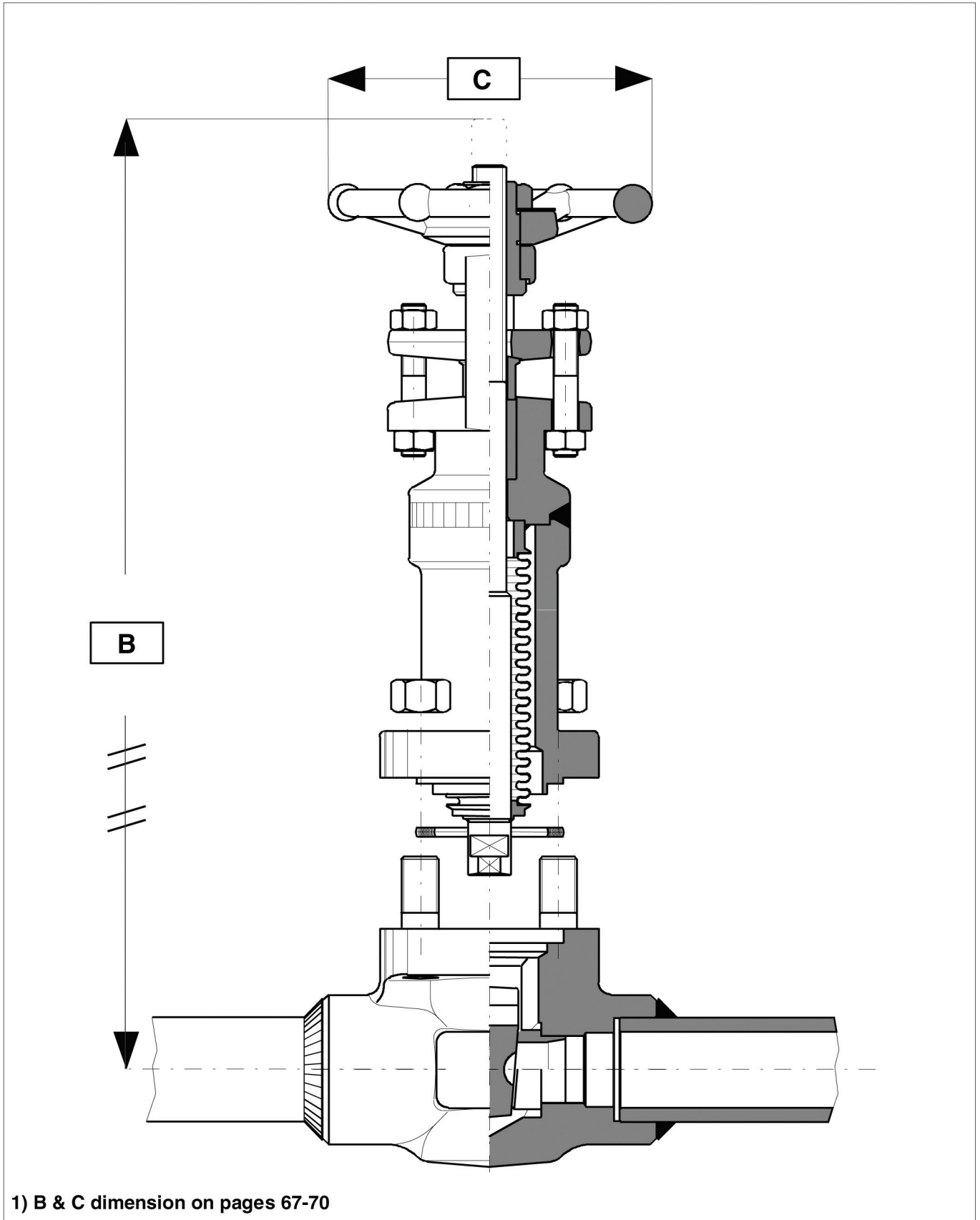
Typical Figure Number: BL08S6L2GW - Type 316L, Socket Weld, Trim 12

CONVENTIONAL PORT									
			1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
A (mm/in)			80 3.15	90 3.54	110 4.33	127 5.00	155 6.10	170 6.69	170 6.69
B (mm/in)			235 9.25	259 10.20	302 11.89	329 12.95	354 13.94	390 15.35	390 15.35
C (mm/in)			90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	140 5.51
D (mm/in)			9 0.35	12,5 0.49	17.5 0.69	22.5 0.89	28 ⁽¹⁾ 1.10	32 ⁽²⁾ 1.26	32 ⁽²⁾ 1.26
Wt. (kg/lb)			2.3 5.1	2.6 5.7	4.3 9.5	6.8 15.0	9.6 21.1	13.8 30.4	13.8 30.4

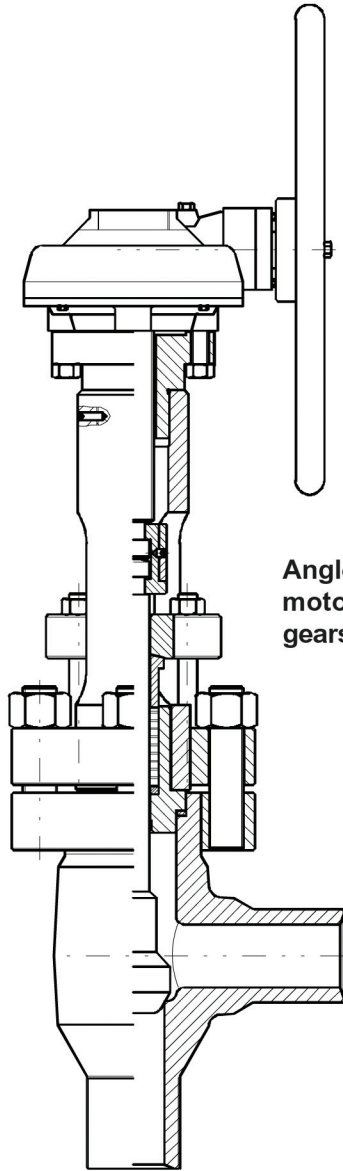
SPECIAL PORT									
	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
A (mm/in)	80 3.15	80 3.15	90 3.54	110 4.33	127 5.00	155 6.10	170 6.69	210 8.27	210 8.27
B (mm/in)	235 9.25	235 9.25	259 10.20	302 11.89	329 12.95	354 13.94	390 15.35	442 17.40	442 17.40
C (mm/in)	90 3.54	90 3.54	90 3.54	100 3.94	120 4.72	140 5.51	140 5.51	200 7.87	200 7.87
D (mm/in)	6 0.24	9 0.35	12.5 0.4	17.5 0.69	22.5 0.89	28 ⁽¹⁾ 1.10	32 ⁽²⁾ 1.26	40 ⁽³⁾ 1.57	40 ⁽³⁾ 1.57
Wt. (kg/lb)	2.4 5.4	2.4 5.4	2.7 6.1	4.6 10.5	7.3 16.5	10.2 23.1	14.5 32.9	23.4 51.1	23.4 51.1

Figure Number Definitions - See page 4	1) D = 29.5 with integral stellited seat
	2) D = 35 with integral stellited seat
	3) D = 45 with integral stellited seat

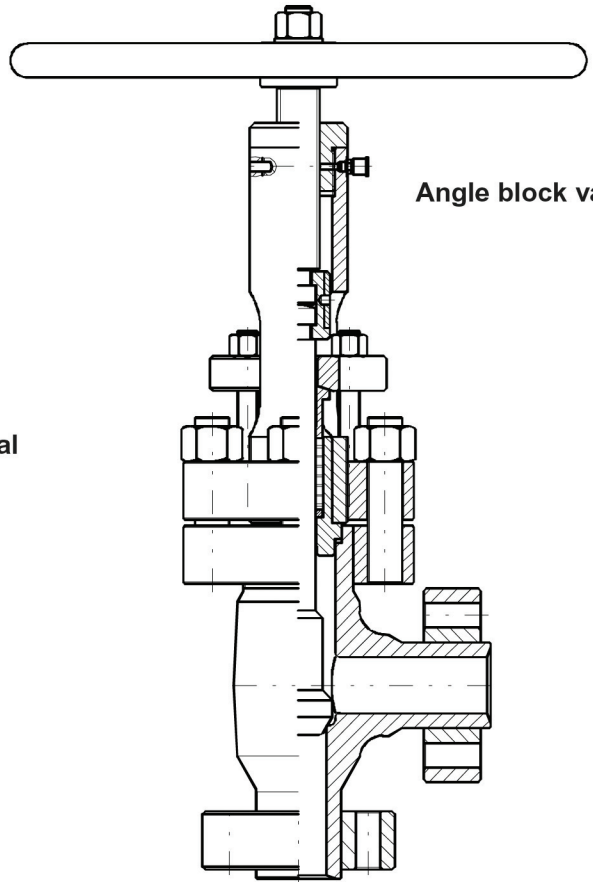
This kit allow the conversion, in the pipe line, from bolted bonnet valves to bellows leakproof valves



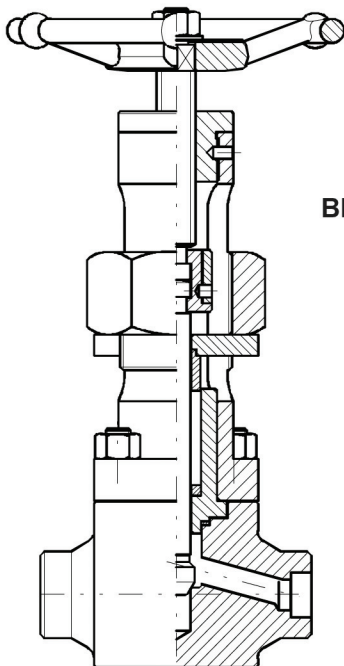
1) B & C dimension on pages 67-70



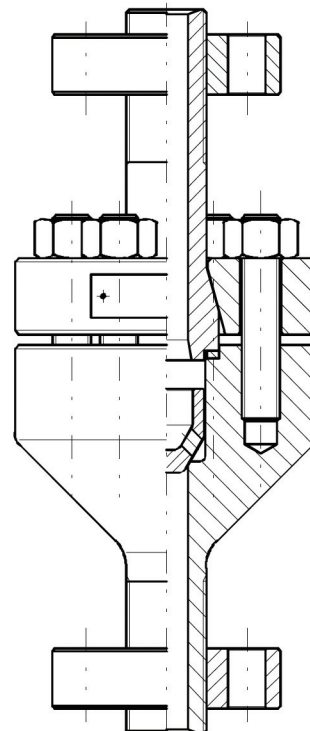
**Angle block valve
motorized and manual
gears**



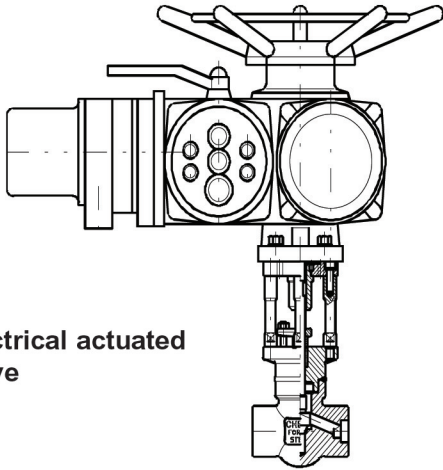
Angle block valve



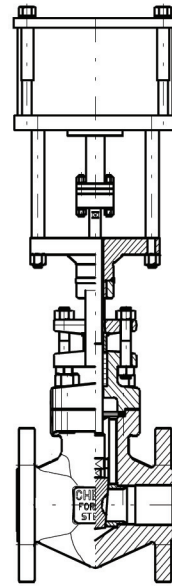
Block valve



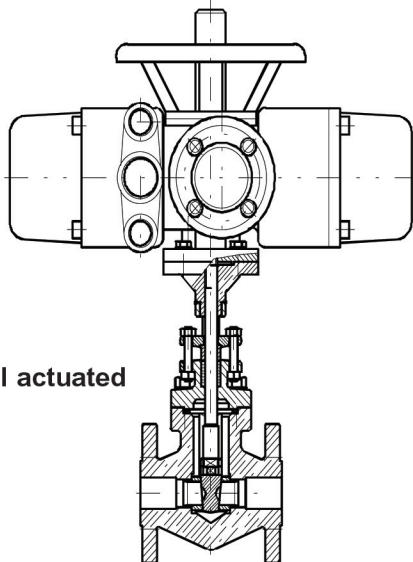
**Vertical drop
check valve**



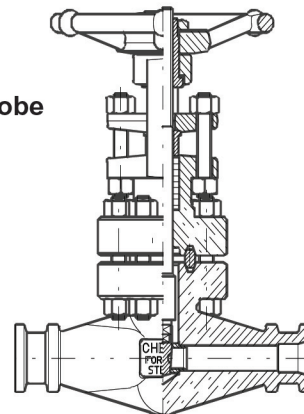
Electrical actuated valve



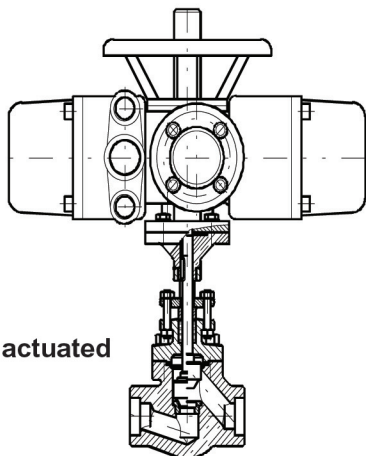
Pneumatic actuated valve



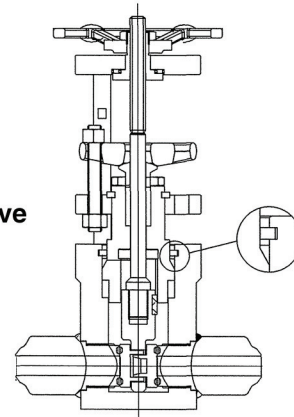
Electrical actuated valve



Gate and globe valves with hubnes

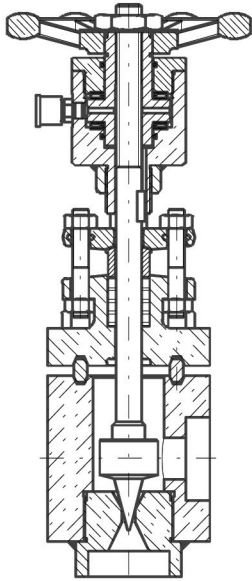


Electrical actuated valve

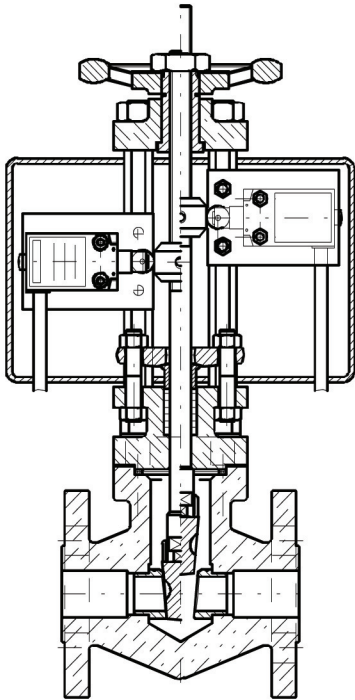
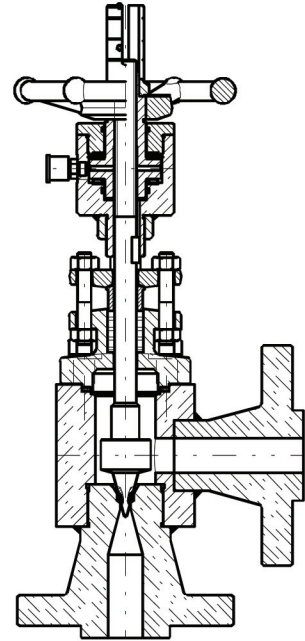


Pressure Seal (Bonnetless) Valve

OPTIONAL FEATURES

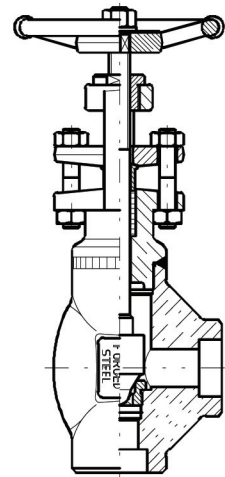


Continuous blowdown valve and position indicator

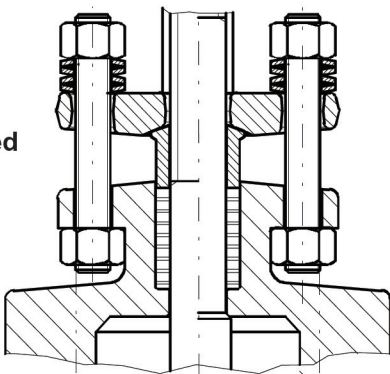


Equipped with limit switch

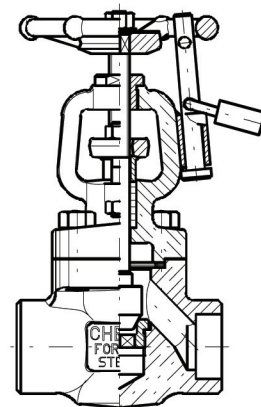
Angle valve



Spring loaded



Locking device



Appendices

Material List

Component	Material									
	Carbon Steel	Carbon Steel	Alloy Steel	Duplex Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Nickel Alloys
Body, Bonnet, Cap, Extension	A105N	A350 LF2	A182 F11 A182 F22 A182 F5 A182 F9 A182 F91	A182 F44 A182 F51 A182 F53 A182 F55	A182 F304 A182 F304L	A182 F316 A182 F316L	A182 F347	Alloy 20 A182 F20		MONEL 400 INCONEL 600 INCONEL 625 INCOLOY 800H INCOLOY 825 HASTELLOY C276 HASTELLOY B2
Stem, Wedge/Disc, Ball, Seat, Disc Nut	A182 F6 API Trim 8	A182 F316 API Trim 12	A182 F6 API Trim 8	Match Body Material	A182 F304	A182 F316 API Trim 12	A182 F347	A182 F20		Match Body Material Match Body Material
Gland	AISI 416	AISI 316	AISI 416		AISI 316					
Gland Flange	A105N	A105N	A182 F304		A182 F304					
Yoke Nut					AISI 416					AISI 303
Handwheel		Carbon Steel			Stainless Steel					
Handwheel Nut		Carbon Steel			Stainless Steel					
Spring										
Body Studs	A193 B7	A193 B8	A193 B16	AISI 316			Inconel 750			
Body Nuts	A194 - 2H	A194 - 8	A194 - 4				A193 B8 A194 - 8			
Gland Studs	AISI 410	A193 B8	AISI 410				A193 B8 A194 - 8			
Gland Nuts	A194 - 2H	A194 - 8	A194 - 2H							
Hinge		A182 F6					Match Body Material			
Gasket				AISI 316+Graphite			Body Material+Graphite			
Packing							Graphite			
Bellows				AISI 316L			AISI 321			Match Body Material

Note: Alternate Materials Available.

		ASTM A105 - A350/LF2															
°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	285	19.7	740	51.0	1480	102.1	1975	136.2	2220	153.1	3705	255.5	6170	425.5	11110	766.2
200	93	260	17.9	675	46.6	1350	93.1	1800	124.1	2025	139.7	3375	232.8	5625	387.9	10120	697.9
300	149	230	15.9	655	45.2	1315	90.7	1750	120.7	1970	135.9	3280	226.2	5470	377.2	9845	679.0
400	204	200	13.8	635	43.8	1270	87.6	1690	116.6	1900	131.0	3170	218.6	5280	364.1	9505	655.5
500	260	170	11.7	600	41.4	1200	82.8	1595	110.0	1795	123.8	2995	206.6	4990	344.1	8980	619.3
600	316	140	9.7	550	37.9	1095	75.5	1460	100.7	1640	113.1	2735	188.6	4560	314.5	8210	566.2
650	343	125	8.6	535	36.9	1075	74.1	1430	98.6	1610	111.0	2685	185.2	4475	308.6	8055	555.5
700	371	110	7.6	535	36.9	1065	73.4	1420	97.9	1600	110.3	2665	183.8	4440	306.2	7990	551.0
750	399	95	6.6	505	34.8	1010	69.7	1345	92.8	1510	104.1	2520	173.8	4200	289.7	7560	521.4
800	427	80	5.5	410	28.3	825	56.9	1100	75.9	1235	85.2	2060	142.1	3430	236.6	6170	425.5
850	454	65	4.5	270	18.6	535	36.9	715	49.3	805	55.5	1340	92.4	2230	153.8	4010	276.6
900	482	50	3.4	170	11.7	345	23.8	460	31.7	515	35.5	860	59.3	1430	98.6	2570	177.2
950	510	35	2.4	105	7.2	205	14.1	275	19.0	310	21.4	515	35.5	860	59.3	1545	106.6
1000	538	20	1.4	50	3.4	105	7.2	140	9.7	155	10.7	260	17.9	430	29.7	770	53.1

		ASTM A 182/F11-A182/F12															
°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	290	20	750	51.7	1500	103.4	2000	137.9	2250	155.2	3750	258.6	6250	431.0	11250	775.9
200	93	260	17.93	750	51.7	1500	103.4	2000	137.9	2250	155.2	3750	258.6	6250	431.0	11250	775.9
300	149	230	15.86	720	49.7	1445	99.7	1925	132.8	2165	149.3	3610	249.0	6015	414.8	10830	746.9
400	204	200	13.79	695	47.9	1385	95.5	1850	127.6	2080	143.4	3465	239.0	5775	398.3	10400	717.2
500	260	170	11.72	665	45.9	1330	91.7	1775	122.4	1995	137.6	3325	229.3	5540	382.1	9965	687.2
600	316	140	9.655	605	41.7	1210	83.4	1615	111.4	1815	125.2	3025	208.6	5040	347.6	9070	625.5
650	343	125	8.621	590	40.7	1175	81.0	1570	108.3	1765	121.7	2940	202.8	4905	338.3	8825	608.6
700	371	110	7.586	570	39.3	1135	78.3	1515	104.5	1705	117.6	2840	195.9	4730	326.2	8515	587.2
750	399	95	6.552	530	36.6	1065	73.4	1420	97.9	1595	110.0	2660	183.4	4430	305.5	7970	549.7
800	427	80	5.517	510	35.2	1015	70.0	1355	93.4	1525	105.2	2540	175.2	4230	291.7	7610	524.8
850	454	65	4.483	485	33.4	975	67.2	1300	89.7	1460	100.7	2435	167.9	4060	280.0	7305	503.8
900	482	50	3.448	450	31.0	900	62.1	1200	82.8	1350	93.1	2245	154.8	3745	258.3	6740	464.8
950	510	35	2.414	320	22.1	640	44.1	850	58.6	955	65.9	1595	110.0	2655	183.1	4785	330.0
1000	538	20	1.379	215	14.8	430	29.7	575	39.7	650	44.8	1080	74.5	1800	124.1	3240	223.4
1050	566	20	1.379	145	10.0	290	20.0	385	26.6	430	29.7	720	49.7	1200	82.8	2160	149.0
1100	593	20	1.379	95	6.6	190	13.1	255	17.6	290	20.0	480	33.1	800	55.2	1440	99.3
1150	621	20	1.379	60	4.1	125	8.6	165	11.4	185	12.8	310	21.4	515	35.5	925	63.8
1200	649	15	1.034	40	2.8	75	5.2	100	6.9	115	7.9	190	13.1	315	21.7	565	39.0

For welding and valves only. Flanged end ratings terminate at 1000°F.

A105: permissible, but not recommended for prolonged usage above about 800°F.
 A350/LF2: not to be used over 650°F.
 A182/F11-A182/F12: permissible but not recommended for prolonged usage above about 1100°F.

ASTM A182/F22																	
°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	290	20.0	750	51.7	1500	103.4	2000	137.9	2250	155.2	3750	258.6	6250	431.0	11250	775.9
200	93	260	17.9	750	51.7	1500	103.4	2000	137.9	2250	155.2	3750	258.6	6250	431.0	11250	775.9
300	149	230	15.9	730	50.3	1455	100.3	1940	133.8	2185	150.7	3640	251.0	6070	418.6	10925	753.4
400	204	200	13.8	705	48.6	1410	97.2	1880	129.7	2115	145.9	3530	243.4	5880	405.5	10585	730.0
500	260	170	11.7	665	45.9	1330	91.7	1775	122.4	1995	137.6	3325	229.3	5540	382.1	9965	687.2
600	316	140	9.7	605	41.7	1210	83.4	1615	111.4	1815	125.2	3025	208.6	5040	347.6	9070	625.5
650	343	125	8.6	590	40.7	1175	81.0	1570	108.3	1765	121.7	2940	202.8	4905	338.3	8825	608.6
700	371	110	7.6	570	39.3	1135	78.3	1515	104.5	1705	117.6	2840	195.9	4730	326.2	8515	587.2
750	399	95	6.6	530	36.6	1065	73.4	1420	97.9	1595	110.0	2660	183.4	4430	305.5	7970	549.7
800	427	80	5.5	510	35.2	1015	70.0	1355	93.4	1525	105.2	2540	175.2	4230	291.7	7610	524.8
850	454	65	4.5	485	33.4	975	67.2	1300	89.7	1460	100.7	2435	167.9	4060	280.0	7305	503.8
900	482	50	3.4	450	31.0	900	62.1	1200	82.8	1350	93.1	2245	154.8	3745	258.3	6740	464.8
950	510	35	2.4	375	25.9	755	52.1	1005	69.3	1130	77.9	1885	130.0	3145	216.9	5665	390.7
1000	538	20	1.4	260	17.9	520	35.9	695	47.9	780	53.8	1305	90.0	2170	149.7	3910	269.7
1050	566	20	1.4	175	12.1	350	24.1	465	32.1	525	36.2	875	60.3	1455	100.3	2625	181.0
1100	593	20	1.4	110	7.6	220	15.2	295	20.3	330	22.8	550	37.9	915	63.1	1645	113.4
1150	621	20	1.4	70	4.8	135	9.3	180	12.4	205	14.1	345	23.8	570	39.3	1030	71.0
1200	649	20	1.4	40	2.8	80	5.5	110	7.6	125	8.6	205	14.1	345	23.8	615	42.4

ASTM A182/F5

°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	290	20.0	750	51.7	1500	103.4	2000	137.9	2250	155.2	3750	258.6	6250	431.0	11250	775.9
200	93	260	17.9	745	51.4	1490	102.8	1985	136.9	2235	154.1	3725	256.9	6205	427.9	11170	770.3
300	149	230	15.9	715	49.3	1430	98.6	1910	131.7	2150	148.3	3580	246.9	5965	411.4	10740	740.7
400	204	200	13.8	705	48.6	1410	97.2	1880	129.7	2115	145.9	3530	243.4	5880	405.5	10585	730.0
500	260	170	11.7	665	45.9	1330	91.7	1775	122.4	1995	137.6	3325	229.3	5540	382.1	9965	687.2
600	316	140	9.7	605	41.7	1210	83.4	1615	111.4	1815	125.2	3025	208.6	5040	347.6	9070	625.5
650	343	125	8.6	590	40.7	1175	81.0	1570	108.3	1765	121.7	2940	202.8	4905	338.3	8825	608.6
700	371	110	7.6	570	39.3	1135	78.3	1515	104.5	1705	117.6	2840	195.9	4730	326.2	8515	587.2
750	399	95	6.6	530	36.6	1055	72.8	1410	97.2	1585	109.3	2640	182.1	4400	303.4	7920	546.2
800	427	80	5.5	510	35.2	1015	70.0	1355	93.4	1525	105.2	2540	175.2	4230	291.7	7610	524.8
850	454	65	4.5	485	33.4	965	66.6	1290	89.0	1450	100.0	2415	166.6	4030	277.9	7250	500.0
900	482	50	3.4	370	25.5	740	51.0	985	67.9	1110	76.6	1850	127.6	3085	212.8	5555	383.1
950	510	35	2.4	275	19.0	550	37.9	735	50.7	825	56.9	1370	94.5	2285	157.6	4115	283.8
1000	538	20	1.4	200	13.8	400	27.6	530	36.6	595	41.0	995	68.6	1655	114.1	2985	205.9
1050	566	20	1.4	145	10.0	290	20.0	385	26.6	430	29.7	720	49.7	1200	82.8	2160	149.0
1100	593	20	1.4	100	6.9	200	13.8	265	18.3	300	20.7	495	34.1	830	57.2	1490	102.8
1150	621	20	1.4	60	4.1	185	12.8	185	12.8	185	12.8	310	21.4	515	35.5	925	63.8
1200	649	20	1.4	35	2.4	105	7.2	105	7.2	105	7.2	170	11.7	285	19.7	515	35.5

For welding end valves only. Flanged end ratings terminate at 1000°F.

A182/F22: permissible, but not recommended for prolonged usage above about 1100°F.

ASTM A182/F9

°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	290	20,0	750	51,7	1500	103,4	2000	137,9	2250	155,2	3750	258,6	6250	431,0	11250	775,9
200	93	260	17,9	750	51,7	1500	103,4	2000	137,9	2250	155,2	3750	258,6	6250	431,0	11250	775,9
300	149	230	15,9	730	50,3	1455	100,3	1940	133,8	2185	150,7	3640	251,0	6070	418,6	10925	753,4
400	204	200	13,8	705	48,6	1410	97,2	1880	129,7	2115	145,9	3530	243,4	5880	405,5	10585	730,0
500	260	170	11,7	665	45,9	1330	91,7	1775	122,4	1995	137,6	3325	229,3	5540	382,1	9965	687,2
600	316	140	9,7	605	41,7	1210	83,4	1615	111,4	1815	125,2	3025	208,6	5040	347,6	9070	625,5
650	343	125	8,6	590	40,7	1175	81,0	1570	108,3	1765	121,7	2940	202,8	4905	338,3	8825	608,6
700	371	110	7,6	570	39,3	1135	78,3	1515	104,5	1705	117,6	2840	195,9	4730	326,2	8515	587,2
750	399	95	6,6	530	36,6	1065	73,4	1420	97,9	1595	110,0	2660	183,4	4430	305,5	7970	549,7
800	427	80	5,5	510	35,2	1015	70,0	1355	93,4	1525	105,2	2540	175,2	4230	291,7	7610	524,8
850	454	65	4,5	485	33,4	975	67,2	1300	89,7	1460	100,7	2435	167,9	4060	280,0	7305	503,8
900	482	50	3,4	450	31,0	900	62,1	1200	82,8	1350	93,1	2245	154,8	3745	258,3	6740	464,8
950	510	35	2,4	375	25,9	755	52,1	1005	69,3	1130	77,9	1885	130,0	3145	216,9	5655	390,0
1000	538	20	1,4	255	17,6	505	34,8	675	46,6	760	52,4	1270	87,6	2115	145,9	3805	262,4
1050	566	20	1,4	170	11,7	345	23,8	460	31,7	515	35,5	855	59,0	1430	98,6	2570	177,2
1100	593	20	1,4	115	7,9	225	15,5	300	20,7	340	23,4	565	39,0	945	65,2	1695	116,9
1150	621	20	1,4	75	5,2	150	10,3	200	13,8	225	15,5	375	25,9	630	43,4	1130	77,9
1200	649	20	1,4	50	3,4	105	7,2	140	9,7	155	10,7	255	17,6	430	29,7	770	53,1

For welding end valves only. Flanged end ratings terminate at 1000°F.

ASTM A182/F304

°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	275	19,0	720	49,7	1440	99,3	1920	132,4	2160	149,0	3600	248,3	6000	413,8	10800	744,8
200	93	230	15,9	600	41,4	1200	82,8	1600	110,3	1800	124,1	3000	206,9	5000	344,8	9000	620,7
300	149	205	14,1	540	37,2	1080	74,5	1440	99,3	1620	111,7	2700	186,2	4500	310,3	8100	558,6
400	204	190	13,1	495	34,1	995	68,6	1325	91,4	1490	102,8	2485	171,4	4140	285,5	7450	513,8
500	260	170	11,7	465	32,1	930	64,1	1240	85,5	1395	96,2	2330	160,7	3880	267,6	6985	481,7
600	316	140	9,7	435	30,0	875	60,3	1165	80,3	1310	90,3	2185	150,7	3640	251,0	6550	451,7
650	343	125	8,6	430	29,7	860	59,3	1145	79,0	1290	89,0	2150	148,3	3580	246,9	6445	444,5
700	371	110	7,6	425	29,3	850	58,6	1135	78,3	1275	87,9	2125	146,6	3540	244,1	6370	439,3
750	399	95	6,6	415	28,6	830	57,2	1105	76,2	1245	85,9	2075	143,1	3460	238,6	6230	429,7
800	427	80	5,5	405	27,9	805	55,5	1075	74,1	1210	83,4	2015	139,0	3360	231,7	6050	417,2
850	454	65	4,5	395	27,2	790	54,5	1055	72,8	1190	82,1	1980	136,6	3300	227,6	5940	409,7
900	482	50	3,4	390	26,9	780	53,8	1035	71,4	1165	80,3	1945	134,1	3240	223,4	5830	402,1
950	510	35	2,4	380	26,2	765	52,8	1020	70,3	1145	79,0	1910	131,7	3180	219,3	5725	394,8
1000	538	20	1,4	320	22,1	640	44,1	855	59,0	965	66,6	1605	110,7	2675	184,5	4815	332,1
1050	566	20	1,4	310	21,4	615	42,4	820	56,6	925	63,8	1545	106,6	2570	177,2	4630	319,3
1100	593	20	1,4	255	17,6	515	35,5	685	47,2	770	53,1	1285	88,6	2145	147,9	3855	265,9
1150	621	20	1,4	200	13,8	400	27,6	530	36,6	595	41,0	995	68,6	1655	114,1	2985	205,9
1200	649	20	1,4	155	10,7	310	21,4	415	28,6	465	32,1	770	53,1	1285	88,6	2315	159,7
1250	677	20	1,4	115	7,9	225	15,5	300	20,7	340	23,4	565	39,0	945	65,2	1695	116,9
1300	704	20	1,4	85	5,9	170	11,7	225	15,5	255	17,6	430	29,7	715	49,3	1285	88,6
1350	732	20	1,4	60	4,1	125	8,6	165	11,4	185	12,8	310	21,4	515	35,5	925	63,8
1400	760	20	1,4	50	3,4	95	6,6	130	9,0	145	10,0	240	16,6	400	27,6	720	49,7
1450	788	15	1,0	35	2,4	70	4,8	95	6,6	105	7,2	170	11,7	285	19,7	515	35,5
1500	816	10	0,7	25	1,7	55	3,8	70	4,8	80	5,5	135	9,3	230	15,9	410	28,3

For welding end valves only. Flanged end ratings terminate at 1000°F.

ASTM A182/F316

°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	275	19,0	720	49,7	1440	99,3	1920	132,4	2160	149,0	3600	248,3	6000	413,8	10800	744,8
200	93	235	16,2	620	42,8	1240	85,5	1655	114,1	1860	128,3	3095	213,4	5160	355,9	9290	640,7
300	149	215	14,8	560	38,6	1120	77,2	1495	103,1	1680	115,9	2795	192,8	4660	321,4	8390	578,6
400	204	195	13,4	515	35,5	1025	70,7	1370	94,5	1540	106,2	2570	177,2	4280	295,2	7705	531,4
500	260	170	11,7	480	33,1	955	65,9	1275	87,9	1435	99,0	2390	164,8	3980	274,5	7165	494,1
600	316	140	9,7	450	31,0	900	62,1	1205	83,1	1355	93,4	2255	155,5	3760	259,3	6770	466,9
650	343	125	8,6	445	30,7	890	61,4	1185	81,7	1330	91,7	2220	153,1	3700	255,2	6660	459,3
700	371	110	7,6	430	29,7	870	60,0	1160	80,0	1305	90,0	2170	149,7	3620	249,7	6515	449,3
750	399	95	6,6	425	29,3	855	59,0	1140	78,6	1280	88,3	2135	147,2	3560	245,5	6410	442,1
800	427	80	5,5	420	29,0	845	58,3	1125	77,6	1265	87,2	2110	145,5	3520	242,8	6335	436,9
850	454	65	4,5	420	29,0	835	57,6	1115	76,9	1255	86,6	2090	144,1	3480	240,0	6265	432,1
900	482	50	3,4	415	28,6	830	57,2	1105	76,2	1245	85,9	2075	143,1	3460	238,6	6230	429,7
950	510	35	2,4	385	26,6	775	53,4	1030	71,0	1160	80,0	1930	133,1	3220	222,1	5795	399,7
1000	538	20	1,4	350	24,1	700	48,3	935	64,5	1050	72,4	1750	120,7	2915	201,0	5245	361,7
1050	566	20	1,4	345	23,8	685	47,2	915	63,1	1030	71,0	1720	118,6	2865	197,6	5155	355,5
1100	593	20	1,4	305	21,0	610	42,1	815	56,2	915	63,1	1525	105,2	2545	175,5	4575	315,5
1150	621	20	1,4	235	16,2	475	32,8	630	43,4	710	49,0	1185	81,7	1970	135,9	3550	244,8
1200	649	20	1,4	185	12,8	370	25,5	495	34,1	555	38,3	925	63,8	1545	106,6	2775	191,4
1250	677	20	1,4	145	10,0	295	20,3	390	26,9	440	30,3	735	50,7	1230	84,8	2210	152,4
1300	704	20	1,4	115	7,9	235	16,2	310	21,4	350	24,1	585	40,3	970	66,9	1750	120,7
1350	732	20	1,4	95	6,6	190	13,1	255	17,6	290	20,0	480	33,1	800	55,2	1440	99,3
1400	760	20	1,4	75	5,2	150	10,3	200	13,8	225	15,5	380	26,2	630	43,4	1130	77,9
1450	788	20	1,4	60	4,1	115	7,9	155	10,7	175	12,1	290	20,0	485	33,4	875	60,3
1500	816	20	1,4	40	2,8	85	5,9	110	7,6	125	8,6	205	14,1	345	23,8	620	42,8

For welding end valves only. Flanged end ratings terminate at 1000°F.

ASTM A182/F304L - A182/F316L

°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	230	15,9	600	41,4	1200	82,8	1600	110,3	1800	124,1	3000	206,9	5000	344,8	9000	620,7
200	93	195	13,4	505	34,8	1015	70,0	1350	93,1	1520	104,8	2530	174,5	4220	291,0	7595	523,8
300	149	175	12,1	455	31,4	910	62,8	1210	83,4	1360	93,8	2270	156,6	3780	260,7	6805	469,3
400	204	160	11,0	415	28,6	825	56,9	1100	75,9	1240	85,5	2065	142,4	3440	237,2	6190	426,9
500	260	145	10,0	380	26,2	765	52,8	1020	70,3	1145	79,0	1910	131,7	3180	219,3	5725	394,8
600	316	140	9,7	360	24,8	720	49,7	960	66,2	1080	74,5	1800	124,1	3000	206,9	5400	372,4
650	343	125	8,6	350	24,1	700	48,3	935	64,5	1050	72,4	1750	120,7	2920	201,4	5255	362,4
700	371	110	7,6	345	23,8	685	47,2	915	63,1	1030	71,0	1715	118,3	2860	197,2	5150	355,2
750	399	95	6,6	335	23,1	670	46,2	895	61,7	1010	69,7	1680	115,9	2800	193,1	5040	347,6
800	427	80	5,5	330	22,8	660	45,5	875	60,3	985	67,9	1645	113,4	2740	189,0	4930	340,0
850	454	65	4,5	320	22,1	645	44,5	860	59,3	965	66,6	1610	111,0	2680	184,8	4825	332,8

ASTM A182/F321

°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	275	19,0	720	49,7	1440	99,3	1920	132,4	2160	149,0	3600	248,3	6000	413,8	10800	744,8
200	93	245	16,9	645	44,5	1290	89,0	1720	118,6	1935	133,4	3230	222,8	5380	371,0	9685	667,9
300	149	230	15,9	595	41,0	1190	82,1	1585	109,3	1785	123,1	2975	205,2	4960	342,1	8930	615,9
400	204	200	13,8	550	37,9	1105	76,2	1470	101,4	1655	114,1	2760	190,3	4600	317,2	8280	571,0
500	260	170	11,7	515	35,5	1030	71,0	1375	94,8	1545	106,6	2570	177,2	4285	295,5	7715	532,1
600	316	140	9,7	485	33,4	975	67,2	1300	89,7	1460	100,7	2435	167,9	4060	280,0	7310	504,1
650	343	125	8,6	480	33,1	955	65,9	1275	87,9	1435	99,0	2390	164,8	3980	274,5	7165	494,1
700	371	110	7,6	465	32,1	930	64,1	1240	85,5	1395	96,2	2330	160,7	3880	267,6	6985	481,7
750	399	95	6,6	460	31,7	915	63,1	1220	84,1	1375	94,8	2290	157,9	3820	263,4	6875	474,1
800	427	80	5,5	450	31,0	900	62,1	1203,3	83,0	1355	93,4	2255	155,5	3760	259,3	6770	466,9
850	454	65	4,5	445	30,7	895	61,7	1190	82,1	1340	92,4	2230	153,8	3720	256,6	6695	461,7
900	482	50	3,4	440	30,3	885	61,0	1180	81,4	1325	91,4	2210	152,4	3680	253,8	6625	456,9
950	510	35	2,4	385	26,6	775	53,4	1030	71,0	1160	80,0	1930	133,1	3220	222,1	5795	399,7
1000	538	20	1,4	355	24,5	715	49,3	950	65,5	1070	73,8	1785	123,1	2970	204,8	5350	369,0

ASTM A182/F347

°F	°C	150	PN20	300	PN50	600	PN100	800	PN130	900	PN150	1500	PN250	2500	PN420	4500	PN760
		psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
100	38	275	19,0	720	49,7	1440	99,3	1920	132,4	2160	149,0	3600	248,3	6000	413,8	10800	744,8
200	93	255	17,6	660	45,5	1320	91,0	1760	121,4	1980	136,6	3300	227,6	5500	379,3	9900	682,8
300	149	230	15,9	615	42,4	1230	84,8	1640	113,1	1845	127,2	3070	211,7	5120	353,1	9215	635,5
400	204	200	13,8	575	39,7	1145	79,0	1530	105,5	1720	118,6	2870	197,9	4780	329,7	8615	594,1
500	260	170	11,7	540	37,2	1080	74,5	1440	99,3	1620	111,7	2700	186,2	4500	310,3	8100	558,6
600	316	140	9,7	515	35,5	1025	70,7	1370	94,5	1540	106,2	2570	177,2	4280	295,2	7705	531,4
650	343	125	8,6	505	34,8	1010	69,7	1345	92,8	1510	104,1	2520	173,8	4200	289,7	7560	521,4
700	371	110	7,6	495	34,1	990	68,3	1320	91,0	1485	102,4	2470	170,3	4120	284,1	7415	511,4
750	399	95	6,6	490	33,8	985	67,9	1310	90,3	1475	101,7	2460	169,7	4100	282,8	7380	509,0
800	427	80	5,5	485	33,4	975	67,2	1300	89,7	1460	100,7	2435	167,9	4060	280,0	7310	504,1
850	454	65	4,5	485	33,4	970	66,9	1295	89,3	1455	100,3	2425	167,2	4040	278,6	7270	501,4
900	482	50	3,4	450	31,0	900	62,1	1200	82,8	1350	93,1	2245	154,8	3745	258,3	6740	464,8
950	510	35	2,4	385	26,6	775	53,4	1030	71,0	1160	80,0	1930	133,1	3220	222,1	5795	399,7
1000	538	20	1,4	365	25,2	725	50,0	970	66,9	1090	75,2	1820	125,5	3030	209,0	5450	375,9

ASTM A182/F91

Working Pressures by Classes

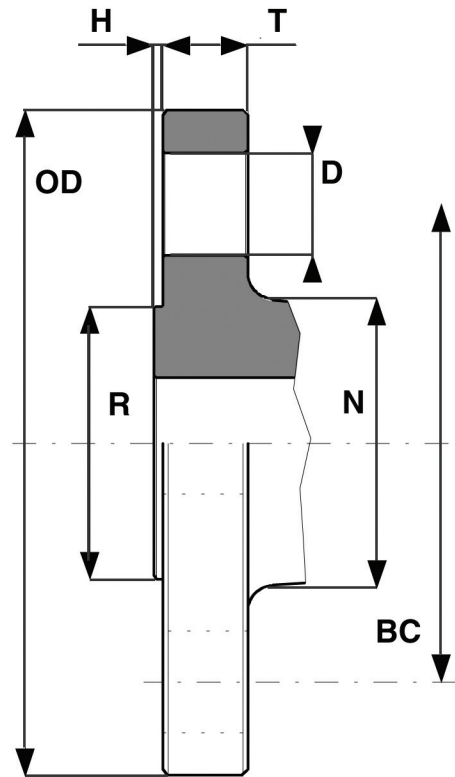
Temperature		150		300		600		800		900		1500		2500		4500	
°F	°C	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
-20 to 100	-28.9 to 37.8	290	20.0	750	51.7	1500	103.4	2000	137.9	2250	155.1	3750	258.6	6250	430.9	11250	775.7
200	93.3	280	17.9	750	51.7	1500	103.4	2000	137.9	2250	155.1	3750	258.6	6250	430.9	11250	775.7
300	148.9	230	15.9	730	50.3	1455	100.3	1942	133.9	2185	150.7	3640	251.0	6070	418.5	10925	753.3
400	204.4	200	13.8	705	48.6	1410	97.2	1880	129.6	2115	145.8	3530	243.4	5880	405.4	10585	729.8
500	260.0	170	11.7	665	45.9	1330	91.7	1773	122.3	1995	137.6	3325	229.3	5540	382.0	9965	687.1
600	315.6	140	9.7	605	41.7	1210	83.4	1613	111.2	1815	125.1	3025	208.6	5040	347.5	9070	625.4
650	343.3	125	8.6	590	40.7	1175	81.0	1568	108.1	1765	121.7	2940	202.7	4905	338.2	8825	608.5
700	371.1	110	7.6	570	39.3	1135	78.3	1515	104.5	1705	117.6	2840	195.8	4730	326.1	8515	587.1
750	398.9	95	6.6	530	36.5	1065	73.4	1418	97.8	1595	110.0	2660	183.4	4430	305.4	7970	549.5
800	426.7	80	5.5	510	35.2	1015	70.0	1355	93.4	1525	105.1	2540	175.1	4230	291.6	7610	524.7
850	454.4	65	4.5	485	33.4	975	67.2	1298	89.5	1460	100.7	2435	167.9	4060	279.9	7305	503.7
900	482.2	50	3.4	450	31.0	900	62.1	1200	82.7	1350	93.1	2245	154.8	3745	258.2	6740	464.7
950	510.0	35	2.4	385	26.5	775	53.4	1032	71.1	1160	80.0	1930	133.1	3220	222.0	5795	399.6
1000	537.8	20	1.4	365	25.2	725	50.0	968	66.8	1090	75.2	1820	125.5	3030	208.9	5450	375.8
1050	565.6	20 ⁽¹⁾	1.4 ⁽¹⁾	360	24.8	720	49.6	960	66.2	1080	74.5	1800	124.1	3000	206.8	5400	372.3
1100	593.3	20 ⁽¹⁾	1.4 ⁽¹⁾	300	20.7	605	41.7	805	55.5	905	62.4	1510	104.1	2515	173.4	4525	312.0
1150	621.1	20 ⁽¹⁾	1.4 ⁽¹⁾	225	15.5	445	30.7	595	41.0	670	46.2	1115	76.9	1855	127.9	3345	230.6
1200	648.9	20 ⁽¹⁾	1.4 ⁽¹⁾	145	10.0	290	20.0	383	26.4	430	29.6	720	49.6	1200	82.7	2160	148.9

Note: (1) For welding end valves only. Flanged end ratings terminate at 1000°F.

SW (ASME B16.11)					
Size		Min. diam.	Max. diam.	Min. depth.	Our depth
1/4"	mm.	14.10	14.35	9.65	10
	in.	0.555	0.565	0.38	0.394
3/8"	mm.	17.53	17.78	9.65	10
	in.	0.690	0.700	0.38	0.394
1/2"	mm.	21.72	21.97	9.65	10
	in.	0.855	0.865	0.38	0.394
3/4"	mm.	27.05	27.30	12.70	13
	in.	1.065	1.075	0.50	0.512
1"	mm.	33.78	34.04	12.70	14
	in.	1.330	1.340	0.50	0.551
1.1/4"	mm.	42.55	42.80	12.70	14
	in.	1.675	1.685	0.50	0.551
1.1/2"	mm.	48.64	48.90	12.70	14
	in.	1.915	1.925	0.50	0.551
2"	mm.	61.11	61.37	15.75	16
	in.	2.406	2.416	0.62	0.630

NPT (ASME B1.20.1)																
												<p>D O.D. of pipe n Threads/in. P Pitch of thread E0 Pitch diam. at beginning of external thread L1 Length of handtight engagement E1 Diam. of handtight engagement L2 Length of effective thread, external E2 Diam. of effective thread, external L3 Length of wrench makeup, internal E3 Diam. of wrench makeup, internal V Vanish thread L4 Overall length external thread L5 Length of nominal complete external threads E5 Diam. of nominal complete external threads h Height of thread</p>				
Size		D	n	P	E0	L1	E1	L2	E2	L3	E3	V	L4	L5	E5	h
1/4"	mm.	13.72	0.71	1.41	12.13	5.79	12.49	10.21	12.76	4.23	11.86	4.90	15.10	7.38	12.59	1.13
	in.	0.540	18	0.056	0.477	0.228	0.492	0.402	0.503	0.167	0.467	0.193	0.595	0.291	0.496	0.044
3/8"	mm.	17.15	0.71	1.41	15.55	6.10	15.93	10.36	16.19	4.23	15.28	4.90	15.26	7.54	16.02	1.13
	in.	0.675	18	0.056	0.612	0.240	0.627	0.408	0.638	0.167	0.602	0.193	0.601	0.297	0.631	0.044
1/2"	mm.	21.34	0.55	1.81	19.26	8.13	19.77	13.56	20.11	5.44	18.92	6.29	19.85	9.93	19.88	1.45
	in.	0.840	14	0.071	0.758	0.320	0.778	0.534	0.792	0.214	0.745	0.248	0.782	0.391	0.783	0.057
3/4"	mm.	26.67	0.55	1.81	24.58	8.61	25.12	13.86	25.45	5.44	24.24	6.29	20.15	10.23	25.22	1.45
	in.	1.050	14	0.071	0.968	0.339	0.989	0.546	1.002	0.214	0.954	0.248	0.794	0.403	0.993	0.057
1"	mm.	33.40	0.45	2.21	30.83	10.16	31.46	17.34	31.91	6.63	30.41	7.66	25.01	12.93	31.63	1.77
	in.	1.315	11.5	0.087	1.214	0.400	1.239	0.683	1.256	0.261	1.197	0.302	0.985	0.509	1.245	0.070
1.1/4"	mm.	42.16	0.45	2.21	39.55	10.67	40.22	17.95	40.67	6.63	39.14	7.66	25.63	13.54	40.40	1.77
	in.	1.660	11.5	0.087	1.557	0.420	1.583	0.707	1.601	0.261	1.541	0.302	1.009	0.533	1.590	0.070
1.1/2"	mm.	48.26	0.45	2.21	45.62	10.67	46.29	18.38	46.77	6.63	45.21	7.66	26.04	13.96	46.49	1.77
	in.	1.900	11.5	0.087	1.796	0.420	1.822	0.724	1.841	0.261	1.780	0.302	1.025	0.550	1.830	0.070
2"	mm.	60.33	0.45	2.21	57.63	11.07	58.33	19.22	58.83	6.63	57.22	7.66	26.88	14.80	58.56	1.77
	in.	2.375	11.5	0.087	2.269	0.436	2.296	0.757	2.316	0.261	2.253	0.302	1.058	0.583	2.305	0.070

Size		OD	R	H	T	N	n	D	BC
150									
1/2"	mm.	88.9	35.1	1.6	9.6	30.2	4	15.7	60.5
	in.	3.50	1.38	0.06	0.38	1.19	4	0.62	2.38
3/4"	mm.	98.6	42.9	1.6	11.1	38.1	4	15.7	69.9
	in.	3.88	1.69	0.06	0.44	1.50	4	0.62	2.75
1"	mm.	108.0	50.8	1.6	12.6	49.3	4	15.7	79.2
	in.	4.25	2.00	0.06	0.50	1.94	4	0.62	3.12
1.1/2"	mm.	127.0	73.2	1.6	15.9	65.0	4	15.7	98.6
	in.	5.00	2.88	0.06	0.63	2.56	4	0.62	3.88
2"	mm.	152.4	91.9	1.6	17.5	77.7	4	19.1	120.7
	in.	6.00	3.62	0.06	0.69	3.06	4	0.75	4.75
300									
1/2"	mm.	95.3	35.1	1.6	12.6	38.1	4	15.7	66.5
	in.	3.75	1.38	0.06	0.50	1.50	4	0.62	2.62
3/4"	mm.	117.3	42.9	1.6	14.2	47.8	4	19.1	82.6
	in.	4.62	1.69	0.06	0.56	1.88	4	0.75	3.25
1"	mm.	124.0	50.8	1.6	15.9	53.8	4	19.1	88.9
	in.	4.88	2.00	0.06	0.63	2.12	4	0.75	3.50
1.1/2"	mm.	155.4	73.2	1.6	19.0	69.9	4	22.4	114.3
	in.	6.12	2.88	0.06	0.75	2.75	4	0.88	4.50
2"	mm.	165.1	91.9	1.6	20.8	84.1	8	19.1	127.0
	in.	6.50	3.62	0.06	0.82	3.31	8	0.75	5.00
600									
1/2"	mm.	95.3	35.1	6.4	14.2	38.1	4	15.7	66.5
	in.	3.75	1.38	0.25	0.56	1.50	4	0.62	2.62
3/4"	mm.	117.3	42.9	6.4	15.7	47.8	4	19.1	82.6
	in.	4.62	1.69	0.25	0.62	1.88	4	0.75	3.25
1"	mm.	124.0	50.8	6.4	17.5	53.8	4	19.1	88.9
	in.	4.88	2.00	0.25	0.69	2.12	4	0.75	3.50
1.1/2"	mm.	155.4	73.2	6.4	22.4	69.9	4	22.4	114.3
	in.	6.12	2.88	0.25	0.88	2.75	4	0.88	4.50
2"	mm.	165.1	91.9	6.4	25.4	84.1	8	19.1	127.0
	in.	6.50	3.62	0.25	1.00	3.31	8	0.75	5.00
1500									
1/2"	mm.	120.7	35.1	6.4	22.4	38.1	4	22.4	82.6
	in.	4.75	1.38	0.25	0.88	1.50	4	0.88	3.25
3/4"	mm.	130.0	42.9	6.4	25.4	44.5	4	22.4	88.9
	in.	5.12	1.69	0.25	1.00	1.75	4	0.88	3.50
1"	mm.	149.4	50.8	6.4	28.4	52.3	4	25.4	101.6
	in.	5.88	2.00	0.25	1.12	2.06	4	1.00	4.00
1.1/2"	mm.	177.8	73.2	6.4	31.8	69.9	4	28.4	124.0
	in.	7.00	2.88	0.25	1.25	2.75	4	1.12	4.88
2"	mm.	215.9	91.9	6.4	38.1	104.6	8	25.4	165.1
	in.	8.50	3.62	0.25	1.50	4.12	8	1.00	6.50
2500									
1/2"	mm.	133.4	35.1	6.4	30.2	42.9	4	22.4	88.9
	in.	5.25	1.38	0.25	1.19	1.69	4	0.88	3.50
3/4"	mm.	139.7	42.9	6.4	31.8	50.8	4	22.4	95.3
	in.	5.50	1.69	0.25	1.25	2.00	4	0.88	3.75
1"	mm.	158.8	50.8	6.4	35.1	57.2	4	25.4	108.0
	in.	6.25	2.00	0.25	1.38	2.25	4	1.00	4.25
1.1/2"	mm.	203.2	73.2	6.4	44.5	79.2	4	31.8	146.1
	in.	8.00	2.88	0.25	1.75	3.12	4	1.25	5.75
2"	mm.	235.0	91.9	6.4	50.8	95.3	8	28.4	171.5
	in.	9.25	3.62	0.25	2.00	3.75	8	1.12	6.75



n Number of holes

DIMENSIONAL TOLERANCES

	mm	in
OD	-1,6 +1,6	-1/16 +1/16
R	-0,4 +0,4	-1/64 +1/64
BC	-0,8 +0,8	-1/32 +1/32
D	-0,4 +0,4	-1/64 +1/64
T	-0 +3,2	-0 +1/8

Class 150											
		1/2"		3/4"		1"		1-1/2"		2"	
		RF	RJ	RF	RJ	RF	RJ	RF	RJ	RF	RJ
Gate	mm.	107.9	119.1	117.5	130.2	127	139.7	165.1	177.8	177.8	190.5
	in.	4-1/4	4-11/16	4-5/8	5-1/8	5	5-1/2	6-1/2	7	7	7-1/2
Globe-Piston/Ball check	mm.	107.9	119.1	117.5	130.2	127	139.7	165.1	177.8	203.2	215.9
Swing check	in.	4-1/4	4-11/16	4-5/8	5-1/8	5	5-1/2	6-1/2	7	8	8-1/2

Class 300											
		1/2"		3/4"		1"		1-1/2"		2"	
		RF	RJ	RF	RJ	RF	RJ	RF	RJ	RF	RJ
Gate	mm.	139.7	150.8	152.4	165.1	165.1	177.8	190.5	203.2	215.9	231.8
	in.	5-1/2	5-15/16	6	6-1/2	6-1/2	7	7-1/2	8	8-1/2	9-1/8
Globe-Piston/Ball check	mm.	152.4	163.5	177.8	190.5	203.2	215.9	228.6	241.3	266.7	282.6
	in.	6	6-7/16	7	7-1/2	8	8-1/2	9	9-1/2	10-7/8	11-1/8
Swing check	mm.	152.4	163.5	177.8	190.5	215.9	228.6	241.3	254	266.7	282.6
	in.	6	6-7/16	7	7-1/2	8-1/2	9	9-1/2	10	10-7/8	11-1/8

Class 600											
		1/2"		3/4"		1"		1-1/2"		2"	
		RF	RJ	RF	RJ	RF	RJ	RF	RJ	RF	RJ
Gate-Globe-Pist./Ball check	mm.	165.1	163.5	190.5	190.5	215.9	215.9	241.3	241.3	292.1	295.3
Swing check	in.	6-1/2	6-7/16	7-1/2	7-1/2	8-1/2	8-1/2	9-1/2	9-1/2	11-1/2	11-5/8

Class 1500											
		1/2"		3/4"		1"		1-1/2"		2"	
		RF	RJ	RF	RJ	RF	RJ	RF	RJ	RF	RJ
Gate-Globe-Pist./Ball check	mm.	215.9	215.9	228.6	228.6	254	254	304.8	304.8	368.3	371.5
Swing check	in.	8-1/2	8-1/2	9	9	10	10	12	12	14-1/2	14-5/8

Class 2500											
		1/2"		3/4"		1"		1-1/2"		2"	
		RF	RJ	RF	RJ	RF	RJ	RF	RJ	RF	RJ
Gate-Globe-Pist./Ball check	mm.	263.5	263.5	273	273	308	308	384.2	387.3	450.8	454
Swing check	in.	10-3/8	10-3/8	10-3/4	10-3/4	12-1/8	12-1/8	15-1/8	15-1/4	17-3/8	17-7/8

Class 300 (Special face)											
		1/2"		3/4"		1"		1-1/2"		2"	
		RF	RJ	RF	RJ	RF	RJ	RF	RJ	RF	RJ
		LF-SF	LM-SM	LF-SF	LM-SM	LF-SF	LM-SM	LF-SF	LM-SM	LF-SF	LM-SM
		LG-SG	LT-ST	LG-SG	LT-ST	LG-SG	LT-ST	LG-SG	LT-ST	LG-SG	LT-ST
Gate	mm.	149.2	152.4	161.9	165.1	174.6	177.8	200	203.2	225.4	228.6
	in.	5-7/8	6	6-3/8	6-1/2	6-7/8	7	7-7/8	8	8-7/8	9
Globe-Piston/Ball check	mm.	161.9	165.1	187.3	190.5	212.7	215.9	238.1	241.3	276.2	279.4
	in.	6-3/8	6-1/2	7-3/8	7-1/2	8-3/8	8-1/2	9-3/8	9-1/2	10-7/8	11
Swing check	mm.	161.9	165.1	187.3	190.5	225.4	228.6	250.8	254	276.2	279.4
	in.	6-3/8	6-1/2	7-3/8	7-1/2	8-7/8	9	9-7/8	10	10-7/8	11

RF = Raised face LF = Large female SG = Small groove LT = Large tongue
 RJ = Ring Joint SF = Small female LM = Large male ST = Small tongue
 LG = Large groove SM = Small male