

TVC FORGED STEEL VALVES



E N G I N E E R E D F O R Q U A L I T Y & E X C E L L E N C E



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Gate Valves

Forged Steel Gate Valves Standard Port Bolted Bonnet

Standards:

Design:

API 602
ASME B16.34

Testing:

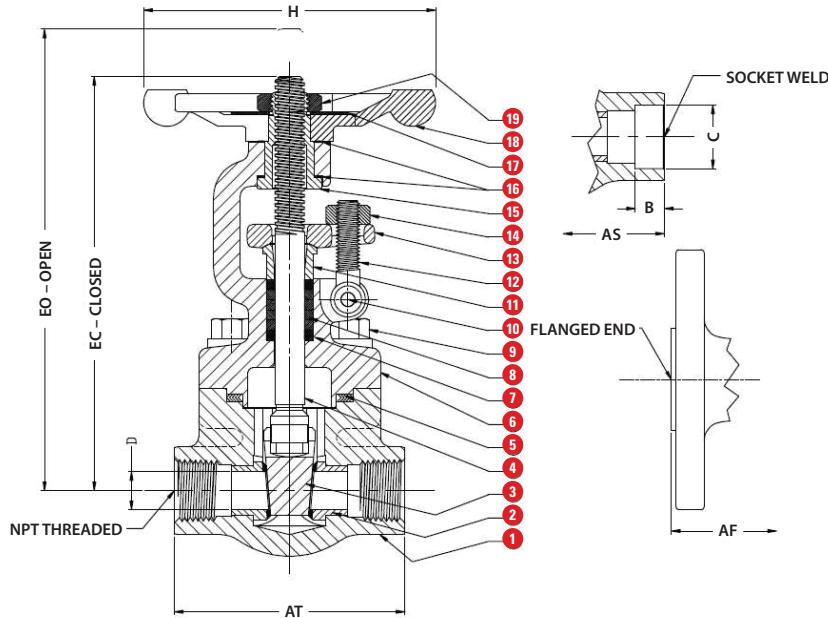
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				A276-316/CoCr-A (Stellite 6)
3	Gate			A276-410				A276-316
4	Stem			A276-410				A276-316
5	Gasket			Spiral Wound 304/Graphite				316/Graphite
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
7	Wiper Ring				Braided Graphite			
8	Packing				Die Formed Graphite			
9	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M
10	Eyebolt Pin			A276-410				A276-316
11	Gland			A276-410				A276-316
12	Eyebolt	A193-B7	A193-B8M		A193-B16			A193-B8M
13	Gland Plate			A105				A182-F316
14	Gland Nut	A194-2H			A194-8M			
15	Op Nut			A276-410				A276-316
16	Washer				A276-410			
17	Nameplate				Aluminum			
18	Handwheel				KTH330-08			
19	Handwheel Nut				LY12 Steel			

Dimensions

SIZE	Dimensions										Weight					
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800
1/2	Inch	3.11	3.11	4.25	5.50	6.50	0.37	0.87	0.39	6.30	5.83	3.94	7.50	9.31	9.26	4.89
	mm	79.00	79.00	108.00	140.00	165.00	9.50	22.0	10.00	160.00	148.00	100.00	3.40	3.77	4.20	2.22
3/4	Inch	3.62	3.62	4.60	6.00	7.50	0.49	1.07	0.51	6.65	6.02	3.94	8.77	10.78	12.79	5.27
	mm	92.00	92.00	117.00	152.00	190.00	12.50	27.4	13.60	169.00	153.00	100.00	3.98	4.89	5.80	2.39
1	Inch	4.37	4.37	5.00	6.50	8.50	0.49	1.34	0.71	7.60	6.73	4.92	13.50	15.94	19.40	9.35
	mm	111.00	111.00	127.00	165.00	216.00	12.50	34.1	18.00	193.00	171.00	125.00	6.12	7.23	8.80	4.24
1-1/4	Inch	4.75	4.75	5.50	7.00	9.00	0.49	1.68	0.94	9.06	7.95	6.30	19.93	23.25	29.50	15.54
	mm	120.00	120.00	140.00	178.00	229.00	12.50	42.9	24.00	230.00	202.00	160.00	9.04	10.55	13.38	7.05
1-1/2	Inch	4.75	4.75	6.50	7.50	9.50	0.49	1.92	1.14	9.69	8.31	6.30	22.93	27.87	34.39	15.54
	mm	120.00	120.00	165.00	190.00	241.00	12.50	49.0	29.00	246.00	211.00	160.00	10.40	12.64	15.60	7.05
2	Inch	5.50	5.50	7.00	8.50	11.50	0.63	2.41	1.45	11.14	9.45	7.09	34.17	39.68	43.00	24.03
	mm	140.00	140.00	178.00	216.00	292.00	16.00	61.5	36.80	283.00	240.00	180.00	15.50	18.00	19.50	10.90

Gate Valve

Forged Steel Gate Valves Standard Port Welded Bonnet

Standards:

Design:

API 602
ASME B16.34

Testing:

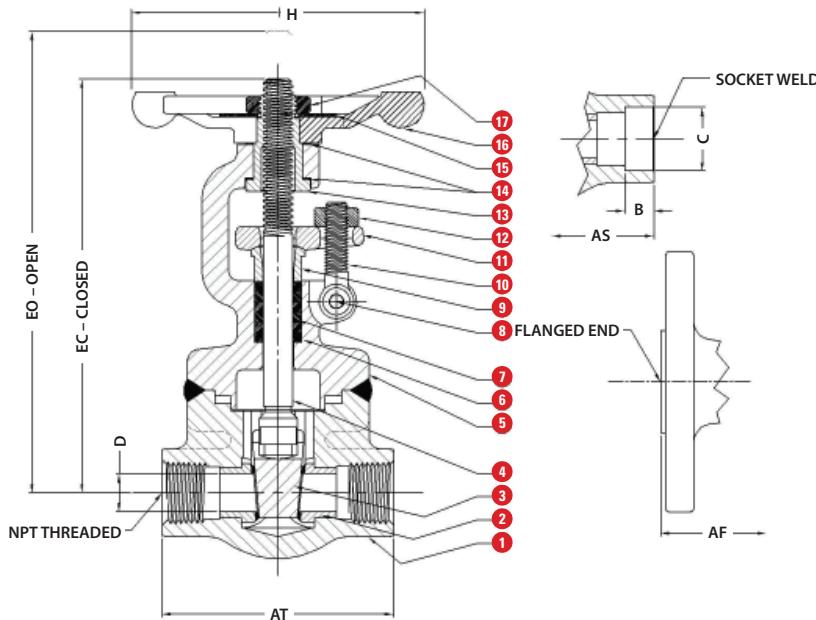
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW – ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L			
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				A276-316/CoCr-A (Stellite 6)			
3	Gate			A276-410				A276-316			
4	Stem			A276-410				A276-316			
5	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
6	Wiper Ring			Braided Graphite							
7	Packing			Die Formed Graphite							
8	Eyebolt Pin			A276-410				A276-316			
9	Gland			A276-410				A276-316			
10	Eyebolt	A193-B7	A193-B8M		A193-B16			A193-B8M			
11	Gland Plate			A105				A182-F316			
12	Gland Nut	A194-2H			A194-8M						
13	Op Nut			A276-410				A276-316			
14	Washer			A276-410							
15	Nameplate			Aluminum							
16	Handwheel			KTH330-08							
17	Handwheel Nut			LY12 Steel							

SIZE		Dimensions										Weight				
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800
1/2	Inch	3.11	3.11	4.25	5.50	6.50	0.37	0.87	0.39	6.30	5.83	3.94	7.50	9.31	9.26	4.89
	mm	79.00	79.00	108.00	140.00	165.00	9.50	22.0	10.00	160.00	148.00	100.00	3.40	3.77	4.20	2.22
3/4	Inch	3.62	3.62	4.60	6.00	7.50	0.49	1.07	0.51	6.65	6.02	3.94	8.77	10.78	12.79	5.27
	mm	92.00	92.00	117.00	152.00	190.00	12.50	27.4	13.60	169.00	153.00	100.00	3.98	4.89	5.80	2.39
1	Inch	4.37	4.37	5.00	6.50	8.50	0.49	1.34	0.71	7.60	6.73	4.92	13.50	15.94	19.40	9.35
	mm	111.00	111.00	127.00	165.00	216.00	12.50	34.1	18.00	193.00	171.00	125.00	6.12	7.23	8.80	4.24
1-1/4	Inch	4.75	4.75	5.50	7.00	9.00	0.49	1.68	0.94	9.06	7.95	6.30	19.93	23.25	29.50	15.54
	mm	120.00	120.00	140.00	178.00	229.00	12.50	42.9	24.00	230.00	202.00	160.00	9.04	10.55	13.38	7.05
1-1/2	Inch	4.75	4.75	6.50	7.50	9.50	0.49	1.92	1.14	9.69	8.31	6.30	22.93	27.87	34.39	15.54
	mm	120.00	120.00	165.00	190.00	241.00	12.50	49.0	29.00	246.00	211.00	160.00	10.40	12.64	15.60	7.05
2	Inch	5.50	5.50	7.00	8.50	11.50	0.63	2.41	1.45	11.14	9.45	7.09	34.17	39.68	43.00	24.03
	mm	140.00	140.00	178.00	216.00	292.00	16.00	61.5	36.80	283.00	240.00	180.00	15.50	18.00	19.50	10.90

Gate Valves

Forged Steel Gate Valves Full Port Bolted Bonnet

Standards:

Design:

API 602
ASME B16.34

Testing:

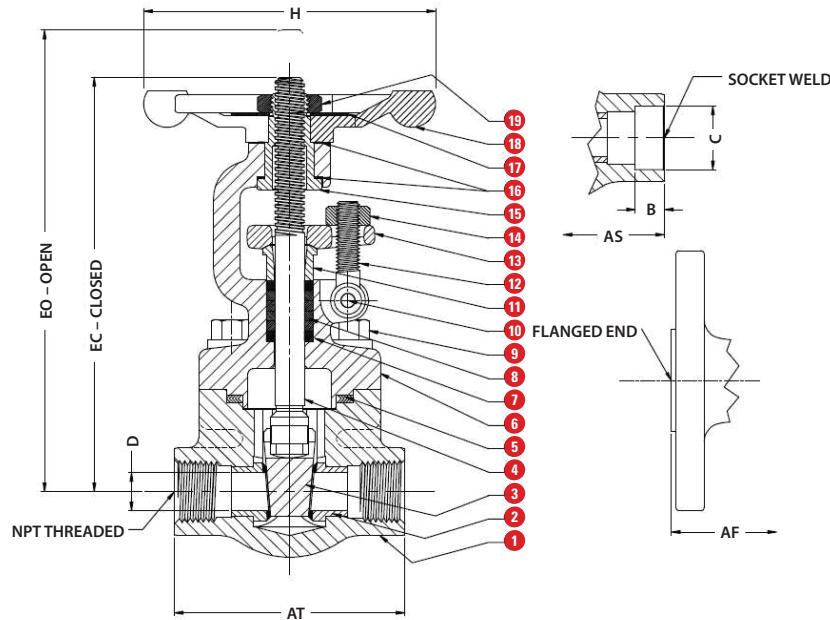
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				A276-316/CoCr-A (Stellite 6)
3	Gate			A276-410				A276-316
4	Stem			A276-410				A276-316
5	Gasket			Spiral Wound 304/Graphite				316/Graphite
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
7	Wiper Ring				Braided Graphite			
8	Packing				Die Formed Graphite			
9	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M
10	Eyebolt Pin			A276-410				A276-316
11	Gland			A276-410				A276-316
12	Eyebolt	A193-B7	A193-B8M		A193-B16			A193-B8M
13	Gland Plate			A105				A182-F316
14	Gland Nut	A194-2H			A194-8M			
15	Op Nut			A276-410				A276-316
16	Washer				A276-410			
17	Nameplate				Aluminum			
18	Handwheel				KTH330-08			
19	Handwheel Nut				LY12 Steel			

Dimensions

SIZE	Dimensions										Weight					
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800
1/2	Inch	3.62	3.62	4.25	5.50	6.50	0.37	0.87	0.50	6.25	5.62	3.94	8.77	10.78	12.79	5.27
	mm	92.00	92.00	108.00	140.00	165.00	9.50	22.0	12.70	159.00	143.00	100.00	3.98	4.89	5.80	2.39
3/4	Inch	4.37	4.37	4.60	6.00	7.50	0.49	1.07	0.71	7.60	6.73	4.80	13.50	15.94	19.40	9.35
	mm	111.00	111.00	117.00	152.00	190.00	12.50	27.4	18.00	193.00	171.00	122.00	6.12	7.23	8.80	4.24
1	Inch	4.75	4.75	5.00	6.50	8.50	0.49	1.34	0.95	8.82	7.95	6.00	19.93	23.25	29.50	15.54
	mm	120.00	120.00	127.00	165.00	216.00	12.50	34.1	24.00	224.00	202.00	150.00	9.04	10.55	13.38	7.05
1-1/4	Inch	4.75	4.75	5.50	7.00	9.00	0.49	1.68	1.25	9.69	8.51	6.00	22.93	27.87	34.39	15.54
	mm	120.00	120.00	140.00	178.00	229.00	12.50	42.9	31.75	246.00	216.00	150.00	10.40	12.64	15.60	7.05
1-1/2	Inch	5.50	5.50	6.50	7.50	9.50	0.49	1.92	1.44	10.95	9.45	7.20	34.17	39.68	43.00	24.03
	mm	140.00	140.00	165.00	190.00	241.00	12.50	49.0	36.60	278.00	240.00	182.00	15.50	18.00	19.50	10.90
2	Inch	5.90	5.90	7.00	8.50	11.50	0.63	2.41	1.98	12.38	10.12	7.20	47.40	52.91	56.21	37.25
	mm	150.00	150.00	178.00	216.00	292.00	16.00	61.5	50.30	314.00	257.00	182.00	21.50	24.00	25.50	16.90

Gate Valve

Forged Steel Gate Valves Full Port Welded Bonnet

Standards:

Design:

API 602
ASME B16.34

Testing:

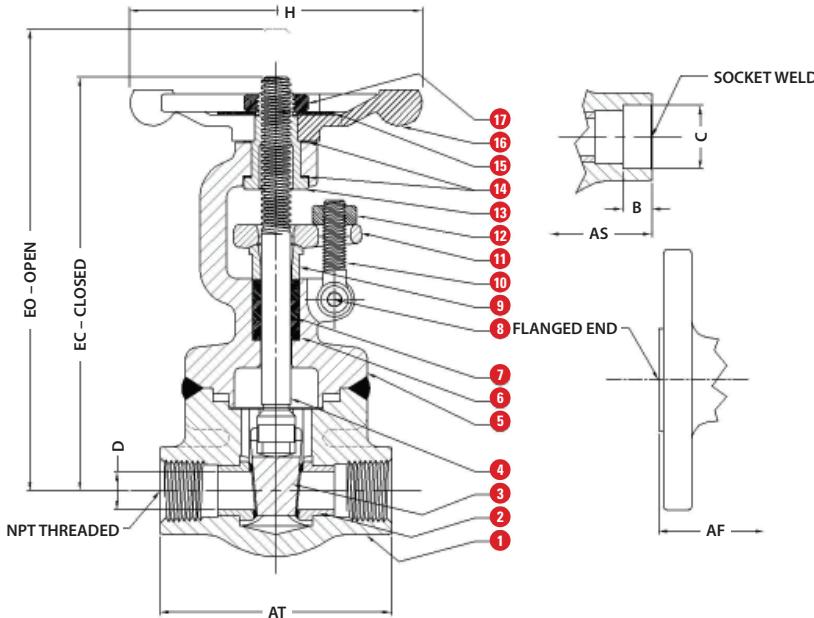
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW – ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L			
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				A276-316/CoCr-A (Stellite 6)			
3	Gate			A276-410				A276-316			
4	Stem			A276-410				A276-316			
5	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
6	Wiper Ring			Braided Graphite							
7	Packing			Die Formed Graphite							
8	Eyebolt Pin			A276-410				A276-316			
9	Gland			A276-410				A276-316			
10	Eyebolt	A193-B7	A193-B8M		A193-B16			A193-B8M			
11	Gland Plate			A105				A182-F316			
12	Gland Nut	A194-2H		A194-8M							
13	Op Nut			A276-410				A276-316			
14	Washer			A276-410							
15	Nameplate			Aluminum							
16	Handwheel			KTH330-08							
17	Handwheel Nut			LY12 Steel							

SIZE		Dimensions										Weight				
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800
1/2	Inch	3.62	3.62	4.25	5.50	6.50	0.37	0.87	0.50	6.25	5.62	3.94	8.77	10.78	12.79	5.27
	mm	92.00	92.00	108.00	140.00	165.00	9.50	22.0	12.70	159.00	143.00	100.00	3.98	4.89	5.80	2.39
3/4	Inch	4.37	4.37	4.60	6.00	7.50	0.49	1.07	0.71	7.60	6.73	4.80	13.50	15.94	19.40	9.35
	mm	111.00	111.00	117.00	152.00	190.00	12.50	27.4	18.00	193.00	171.00	122.00	6.12	7.23	8.80	4.24
1	Inch	4.75	4.75	5.00	6.50	8.50	0.49	1.34	0.95	8.82	7.95	6.00	19.93	23.25	29.50	15.54
	mm	120.00	120.00	127.00	165.00	216.00	12.50	34.1	24.00	224.00	202.00	150.00	9.04	10.55	13.38	7.05
1-1/4	Inch	4.75	4.75	5.50	7.00	9.00	0.49	1.68	1.25	9.69	8.51	6.00	22.93	27.87	34.39	15.54
	mm	120.00	120.00	140.00	178.00	229.00	12.50	42.9	31.75	246.00	216.00	150.00	10.40	12.64	15.60	7.05
1-1/2	Inch	5.50	5.50	6.50	7.50	9.50	0.49	1.92	1.44	10.95	9.45	7.20	34.17	39.68	43.00	24.03
	mm	140.00	140.00	165.00	190.00	241.00	12.50	49.0	36.60	278.00	240.00	182.00	15.50	18.00	19.50	10.90
2	Inch	5.90	5.90	7.00	8.50	11.50	0.63	2.41	1.98	12.38	10.12	7.20	47.40	52.91	56.21	37.25
	mm	150.00	150.00	178.00	216.00	292.00	16.00	61.5	50.30	314.00	257.00	182.00	21.50	24.00	25.50	16.90

Gate Valves

Forged Steel Extended Body Gate Valves Standard Port Bolted Bonnet

Standards:

Design:

API 602
ASME B16.34

Testing:

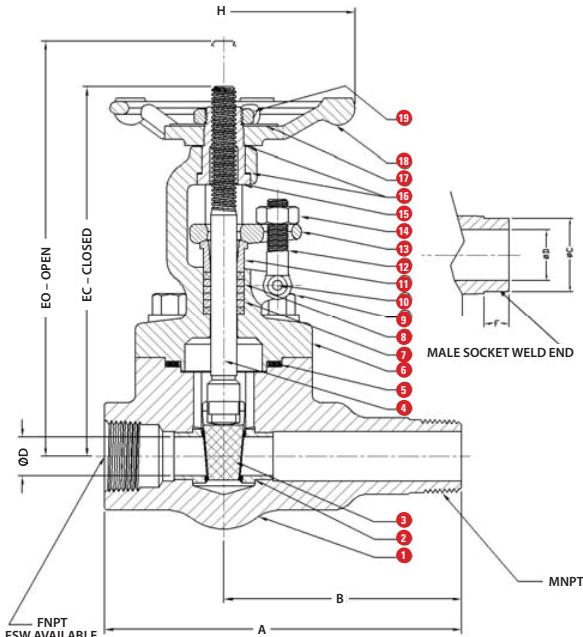
API 598

Pressure Class:

NPT & SW & BW – 800

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
Butt Weld – ASME B16.25



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L		
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L		
2	Seat Ring			A276-410/CoCr-A (Stellite 6)			A276-316/CoCr-A (Stellite 6)			
3	Gate			A276-410			A276-316			
4	Stem			A276-410			A276-316			
5	Gasket			Spiral Wound 304/Graphite			316/Graphite			
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L		
7	Wiper Ring			Braided Graphite						
8	Packing			Die Formed Graphite						
9	Body Bolt	A193-B7	A193-B8M		A193-B16		A193-B8M			
10	Eyebolt Pin			A276-410			A276-316			
11	Gland			A276-410			A276-316			
12	Eyebolt	A193-B7	A193-B8M		A193-B16		A193-B8M			
13	Gland Plate			A105			A182-F316			
14	Gland Nut	A194-2H			A194-8M					
15	Op Nut			A276-410			A276-316			
16	Washer			A276-410						
17	Nameplate			Aluminum						
18	Handwheel			KTH330-08						
19	Handwheel Nut			LY12 Steel						

Dimensions and Weight

SIZE		A	B	C	D (Min)	EO	EC	F	H	Weight
1/2**	Inch	5.89	4.33	0.84	0.37	6.30	5.83	0.31	3.94	5.49
	mm	149.5	110.0	21.3	9.5	160.0	148.0	7.9	100.00	2.49
3/4	Inch	5.77	4.33	1.05	0.51	6.65	6.02	0.44	3.94	5.62
	mm	146.5	110.0	26.7	13.0	169.0	153.0	11.2	100.00	2.55
1	Inch	6.90	4.72	1.31	0.71	7.60	6.73	0.44	4.92	10.02
	mm	175.5	120.0	33.3	18.0	193.0	171.0	11.2	125.00	4.55
1-1/2	Inch	7.87	5.51	1.90	1.14	9.69	8.31	0.44	6.30	16.8
	mm	200.0	140.0	48.3	29.0	246.0	211.0	11.2	160.00	7.62
2	Inch	8.66	5.90	2.37	1.44	11.14	9.45	0.56	7.09	26.00
	mm	220.0	150.0	60.3	36.5	283.0	240.0	14.2	180.00	11.79

**1/2" MNPT valves are not recognized by API 602

Gate Valves

Forged Steel Reinforced Extended Body Gate Valves Standard Port Bolted Bonnet

Standards:

Design:

API 602
ASME B16.34

Testing:

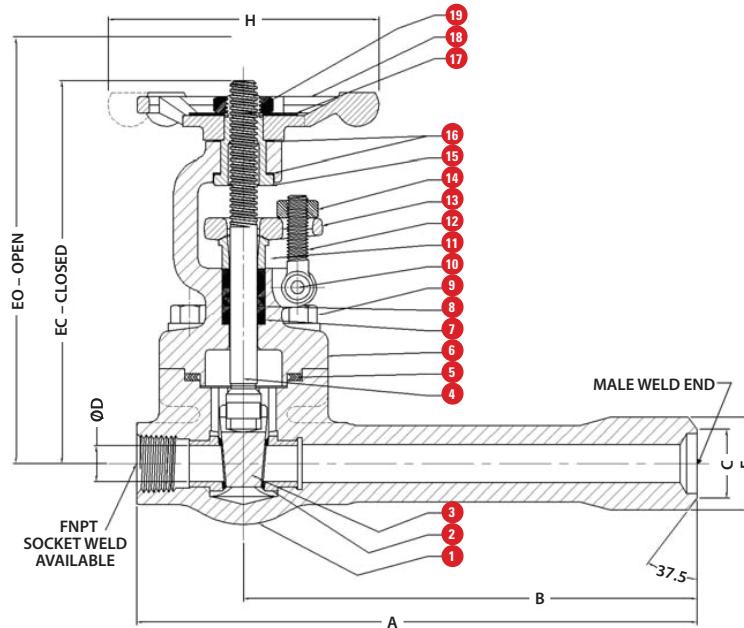
API 598

Pressure Class:

NPT & SW & BW – 800

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
Butt Weld – ASME B16.25



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L			
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				A276-316/CoCr-A (Stellite 6)			
3	Gate			A276-410				A276-316			
4	Stem			A276-410				A276-316			
5	Gasket			Spiral Wound 304/Graphite				316/Graphite			
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
7	Wiper Ring			Braided Graphite							
8	Packing			Die Formed Graphite							
9	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M			
10	Eyebolt Pin			A276-410				A276-316			
11	Gland			A276-410				A276-316			
12	Eyebolt	A193-B7	A193-B8M		A193-B16			A193-B8M			
13	Gland Plate			A105				A182-F316			
14	Gland Nut	A194-2H			A194-8M						
15	Op Nut			A276-410				A276-316			
16	Washer			A276-410							
17	Nameplate			Aluminum							
18	Handwheel			KTH330-08							
19	Handwheel Nut			LY12 Steel							

Dimensions and Weight

SIZE		A	B	C	D (Min)	EO	EC	F	H	Weight
1/2**	Inch	8.15	6.59	0.99	0.37	6.30	5.83	1.34	3.94	6.70
	mm	207.0	167.5	25.2	9.5	160.0	148.0	34	100.00	3.04
3/4	Inch	8.60	6.79	1.31	0.51	6.65	6.02	1.77	3.94	7.62
	mm	218.5	172.5	33.2	13.0	169.0	153.0	45	100.00	3.46
1	Inch	9.63	7.44	1.56	0.71	7.60	6.73	2.05	4.92	13.05
	mm	244.5	189.0	38.7	18.0	193.0	171.0	52	125.00	5.92
1-1/2	Inch	10.37	8.01	2.11	1.14	9.69	8.31	2.75	6.30	21.93
	mm	263.5	203.5	53.7	29.0	246.0	211.0	70	160.00	9.95
2	Inch	10.53	7.78	2.68	1.44	11.14	9.45	3.35	7.09	33.32
	mm	267.5	197.5	68.2	36.5	283.0	240.0	85	180.00	15.11

**1/2" MNPT valves are not recognized by API 602



Gate Valves

Forged Steel Cryogenic Service Gate Valves

Standards:

Design:

API 602
ASME B16.34

Cryo Testing:

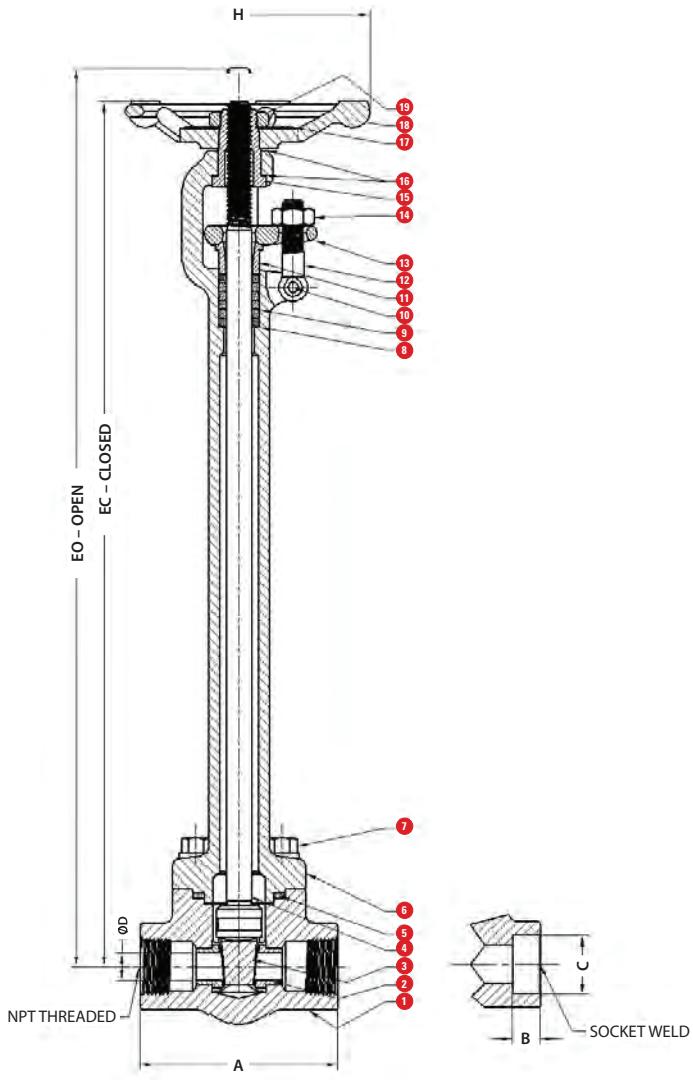
API 598

Pressure Class:

NPT & SW – 800

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11



MATERIAL LIST		
NO.	Part Name	SPECIFICATIONS
1	Body	ASTM A182 Gr. F316/F316L
2	Seat Ring	ASTM A276 Gr. 316/CoCr-A (Stellite 6)
3	Gate	ASTM A276 Gr. 316
4	Stem	ASTM A276 Gr. 316
5	Gasket	Spiral Wound 316/Graphite
6	Bonnet	ASTM A182 Gr. F316/F316L
7	Body Bolt	ASTM A193 Gr. B8M
8	Wiper Rings	Braided Graphite
9	Packing	Die Formed Graphite
10	Eyebolt Pin	ASTM A276 Gr. 316
11	Gland	ASTM A276 Gr. 316
12	Eyebolt	ASTM A193 Gr. B8M
13	Gland Plate	ASTM A182 Gr. F316
14	Gland Nut	ASTM A194 Gr. 8M
15	Op Nut	ASTM A276 Gr. 316
16	Washer	ASTM A276 Gr. 410
17	Nameplate	Aluminum
18	Handwheel	KTH330-08
19	Handwheel Nut	LY12 Steel

Dimensions and Weight							
SIZE		A	B	C	D (Min)	EO	EC
1/2	Inch	3.11	0.37	0.87	0.38	16.34	15.87
	mm	79.00	9.50	22.0	9.5	415.0	403.0
3/4	Inch	3.62	0.49	1.07	0.51	16.63	16.00
	mm	92.00	12.50	27.4	13.0	422.5	406.5
1	Inch	4.37	0.49	1.34	0.71	18.00	17.09
	mm	111.00	12.50	34.1	18.0	457.0	434.0
1-1/2	Inch	4.75	0.49	1.92	1.18	19.38	18.00
	mm	152.00	12.50	49.0	30.0	492.0	457.0
2	Inch	5.50	0.63	2.41	1.42	21.38	19.00
	mm	172.00	16.00	61.5	36.0	543.0	482.6

Globe Valves

Forged Steel Globe Valves Standard Port Bolted Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

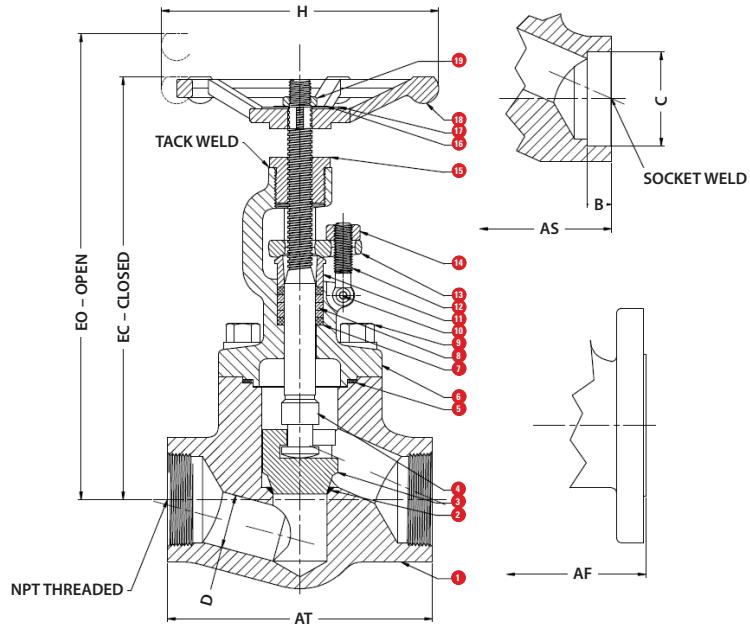
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring				A276-410/CoCr-A (Stellite 6)			A276-316/CoCr-A (Stellite 6)
3	Disc			A276-410				A276-316
4	Stem			A276-410				A276-316
5	Gasket			Spiral Wound 304/Graphite				316/Graphite
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
7	Wiper Ring				Braided Graphite			
8	Packing				Die Formed Graphite			
9	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M
10	Eyebolt Pin			A276-410				A276-316
11	Gland			A276-410				A276-316
12	Eyebolt	A193-B7	A193-B8M		A193-B16			A193-B8M
13	Gland Plate			A105				A182-F316
14	Gland Nut	A194-2H			A194-8M			
15	Op Nut			A276-410				A276-316
16	Washer				A276-410			
17	Nameplate				Aluminum			
18	Handwheel				KTH330-08			
19	Handwheel Nut				LY12 Steel			

Dimensions and Weights

SIZE		Dimensions and Weights										WGT.				
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	6.18	5.83	3.94	7.61	8.38	12.35	5.03
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	157.00	148.00	100.00	3.45	3.80	5.60	2.28
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	6.38	5.98	3.94	8.82	11.24	17.20	5.22
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	162.00	152.00	100.00	4.00	5.10	7.80	2.37
1	inch	4.37	4.37	5.00	8.00	8.50	0.49	1.34	0.71	7.56	7.05	4.92	13.65	15.87	27.56	9.48
	mm	111.00	111.00	127.00	203.00	216.00	12.50	34.1	18.00	192.00	179.00	125.00	6.19	7.20	12.50	4.30
1-1/4	inch	4.75	4.75	5.50	8.50	9.00	0.49	1.68	0.87	9.92	9.13	6.30	21.15	25.25	37.50	17.20
	mm	120.00	120.00	140.00	216.00	229.00	12.50	42.9	22.00	252.00	232.00	160.00	9.60	11.50	17.00	7.80
1-1/2	inch	5.00	6.00	6.50	9.00	9.50	0.49	1.92	1.18	9.92	9.13	6.30	23.15	29.76	51.81	17.20
	mm	152.00	152.00	165.00	229.00	241.00	12.50	49.0	30.00	252.00	232.00	160.00	10.50	13.50	23.50	7.80
2	inch	6.75	6.75	8.00	10.50	11.50	0.63	2.41	1.42	11.38	10.24	7.09	3748	43.43	85.54	27.56
	mm	172.00	172.00	203.00	267.00	292.00	16.00	61.5	36.00	289.00	260.00	180.00	17.00	19.70	38.80	12.50

Globe Valves

Forged Steel Globe Valves Standard Port Welded Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

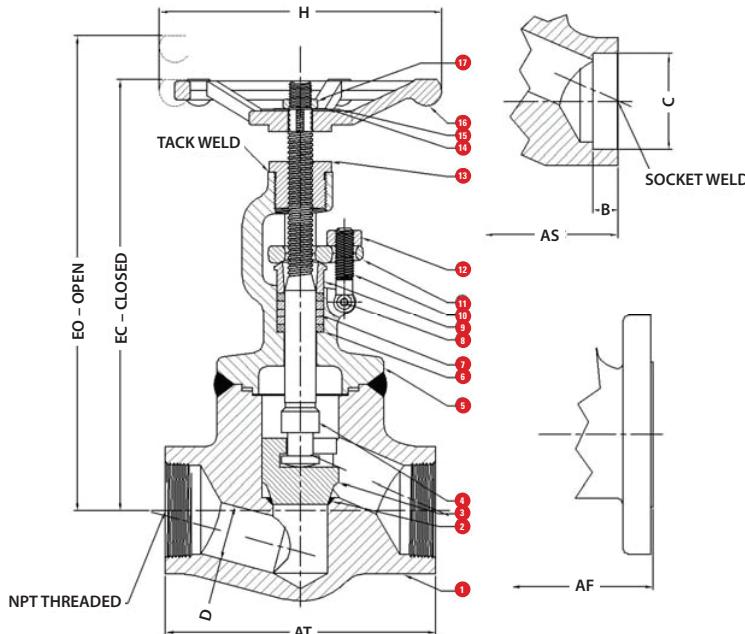
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L		
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L		
2	Seat Ring			A276-410/CoCr-A (Stellite 6)			A276-316/CoCr-A (Stellite 6)			
3	Disc			A276-410			A276-316			
4	Stem			A276-410			A276-316			
5	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L		
6	Wiper Ring			Braided Graphite						
7	Packing			Die Formed Graphite						
8	Eyebolt Pin			A276-410				A276-316		
9	Gland			A276-410				A276-316		
10	Eyebolt	A193-B7	A193-B8M		A193-B16			A193-B8M		
11	Gland Plate			A105			A182-F316			
12	Gland Nut	A194-2H			A194-8M			A276-316		
13	Op Nut			A276-410			A276-316			
14	Washer			A276-410						
15	Nameplate			Aluminum						
16	Handwheel			KTH330-08						
17	Handwheel Nut			LY12 Steel						

Dimensions and Weights

SIZE	Dimensions and Weights										WGT.					
	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800	
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	6.18	5.83	3.94	7.61	8.38	12.35	5.03
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	157.00	148.00	100.00	3.45	3.80	5.60	2.28
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	6.38	5.98	3.94	8.82	11.24	17.20	5.22
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	162.00	152.00	100.00	4.00	5.10	7.80	2.37
1	inch	4.37	4.37	5.00	8.00	8.50	0.49	1.34	0.71	7.56	7.05	4.92	13.65	15.87	27.56	9.48
	mm	111.00	111.00	127.00	203.00	216.00	12.50	34.1	18.00	192.00	179.00	125.00	6.19	7.20	12.50	4.30
1-1/4	inch	4.75	4.75	5.50	8.50	9.00	0.49	1.68	0.87	9.92	9.13	6.30	21.15	25.25	37.50	17.20
	mm	120.00	120.00	140.00	216.00	229.00	12.50	42.9	22.00	252.00	232.00	160.00	9.60	11.50	17.00	7.80
1-1/2	inch	5.00	6.00	6.50	9.00	9.50	0.49	1.92	1.18	9.92	9.13	6.30	23.15	29.76	51.81	17.20
	mm	152.00	152.00	165.00	229.00	241.00	12.50	49.0	30.00	252.00	232.00	160.00	10.50	13.50	23.50	7.80
2	inch	6.75	6.75	8.00	10.50	11.50	0.63	2.41	1.42	11.38	10.24	7.09	37.48	43.43	85.54	27.56
	mm	172.00	172.00	203.00	267.00	292.00	16.00	61.5	36.00	289.00	260.00	180.00	17.00	19.70	38.80	12.50

Globe Valves

Forged Steel Globe Valves Full Port Bolted Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

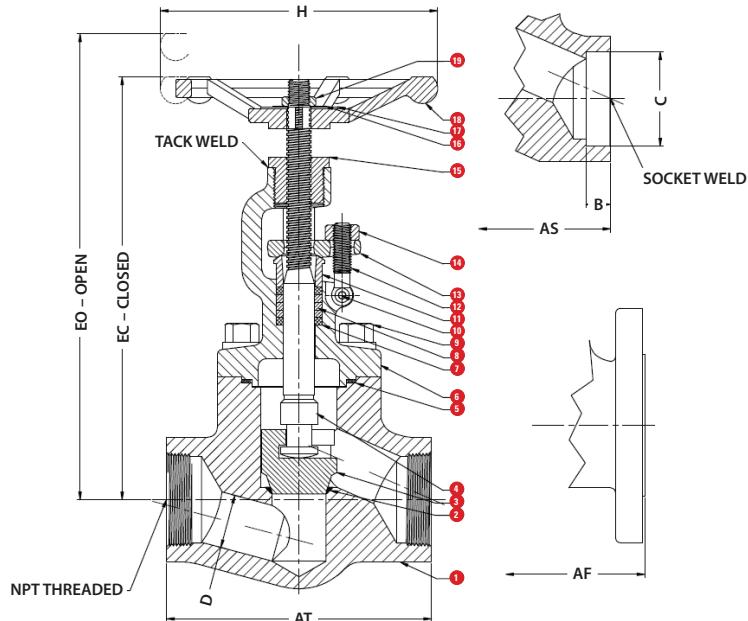
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW – ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L					
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L					
2	Seat Ring	A276-410/CoCr-A (Stellite 6)											
3	Disc	A276-410											
4	Stem	A276-410											
5	Gasket	Spiral Wound 304/Graphite											
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L					
7	Wiper Ring	Braided Graphite											
8	Packing	Die Formed Graphite											
9	Body Bolt	A193-B7	A193-B8M	A193-B16				A193-B8M					
10	Eyebolt Pin	A276-410											
11	Gland	A276-410											
12	Eyebolt	A193-B7	A193-B8M	A193-B16				A193-B8M					
13	Gland Plate	A105											
14	Gland Nut	A194-2H	A194-8M										
15	Op Nut	A276-410											
16	Washer	A276-410											
17	Nameplate	Aluminum											
18	Handwheel	KTH330-08											
19	Handwheel Nut	LY12 Steel											

Dimensions and Weights

SIZE		Dimensions and Weights										WGT.				
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	6.73	6.22	3.94	8.82	11.24	17.20	5.22
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	171.00	158.00	100.00	4.00	5.10	7.80	2.37
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	8.15	7.05	4.92	13.65	15.87	27.56	9.48
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	207.00	179.00	125.00	6.19	7.20	12.50	4.30
1	inch	4.75	4.75	5.00	8.00	8.50	0.49	1.34	0.87	9.45	8.68	6.30	21.15	25.25	37.50	17.20
	mm	120.00	120.00	127.00	203.00	216.00	12.50	34.1	22.00	240.00	220.00	160.00	9.60	11.50	17.00	7.80
1-1/4	inch	6.00	6.00	5.50	8.50	9.00	0.49	1.68	1.18	10.16	9.13	6.30	23.15	29.76	51.81	17.20
	mm	152.00	152.00	140.00	216.00	229.00	12.50	42.9	30.00	258.00	232.00	160.00	10.50	13.50	23.50	7.80
1-1/2	inch	6.75	6.75	6.50	9.00	9.50	0.49	1.92	1.42	13.00	11.81	7.09	37.48	43.43	85.54	27.56
	mm	172.00	172.00	165.00	229.00	241.00	12.50	49.0	36.00	330.00	300.00	180.00	17.00	19.70	38.80	12.50
2	inch	7.87	7.87	8.00	10.50	11.50	0.63	2.41	1.81	14.00	13.50	7.87	48.50	54.45	96.56	38.58
	mm	200.00	200.00	203.00	267.00	292.00	16.00	61.5	46.00	355.00	243.00	200.00	22.00	24.70	43.80	17.50

Globe Valves

Forged Steel Globe Valves Full Port Welded Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

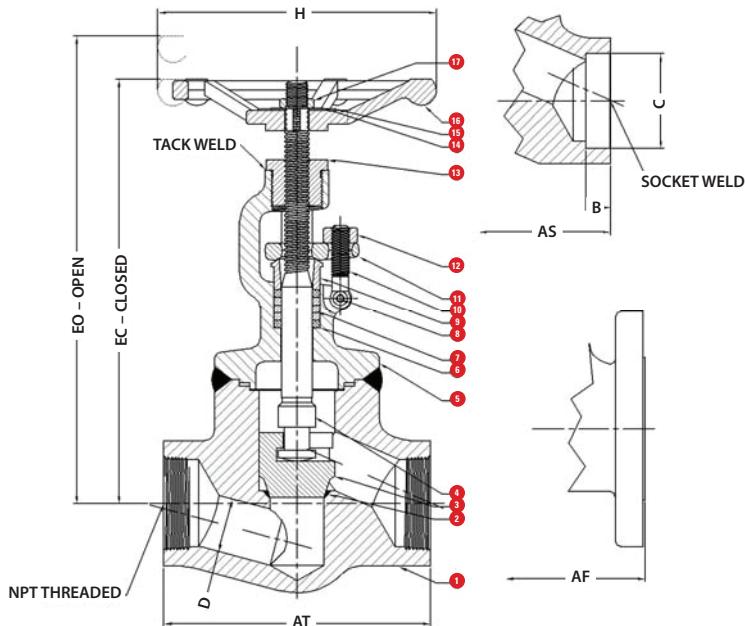
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST									
NO.	Part Name	A105	LF2	F5	F9	F11	F22		
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22		
2	Seat Ring			A276-410/CoCr-A (Stellite 6)			A276-316/CoCr-A (Stellite 6)		
3	Disc			A276-410			A276-316		
4	Stem			A276-410			A276-316		
5	Bonnett	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22		
6	Wiper Ring			Braided Graphite					
7	Packing			Die Formed Graphite					
8	Eyebolt Pin			A276-410			A276-316		
9	Gland			A276-410			A276-316		
10	Eyebolt	A193-B7	A193-B8M		A193-B16		A193-B8M		
11	Gland Plate			A105			A182-F316		
12	Gland Nut	A194-2H		A194-8M					
13	Op Nut			A276-410			A276-316		
14	Washer			A276-410					
15	Nameplate			Aluminum					
16	Handwheel			KTH330-08					
17	Handwheel Nut			LY12 Steel					

SIZE	Dimensions and Weights										WGT.					
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	EO	EC	H	150	300	600	800
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	6.73	6.22	3.94	8.82	11.24	17.20	5.22
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	171.00	158.00	100.00	4.00	5.10	7.80	2.37
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	8.15	7.05	4.92	13.65	15.87	27.56	9.48
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	207.00	179.00	125.00	6.19	7.20	12.50	4.30
1	inch	4.75	4.75	5.00	8.00	8.50	0.49	1.34	0.87	9.45	8.68	6.30	21.15	25.25	37.50	17.20
	mm	120.00	120.00	127.00	203.00	216.00	12.50	34.1	22.00	240.00	220.00	160.00	9.60	11.50	17.00	7.80
1-1/4	inch	6.00	6.00	5.50	8.50	9.00	0.49	1.68	1.18	10.16	9.13	6.30	23.15	29.76	51.81	17.20
	mm	152.00	152.00	140.00	216.00	229.00	12.50	42.9	30.00	258.00	232.00	160.00	10.50	13.50	23.50	7.80
1-1/2	inch	6.75	6.75	6.50	9.00	9.50	0.49	1.92	1.42	13.00	11.81	7.09	37.48	43.43	85.54	27.56
	mm	172.00	172.00	165.00	229.00	241.00	12.50	49.0	36.00	330.00	300.00	180.00	17.00	19.70	38.80	12.50
2	inch	7.87	7.87	8.00	10.50	11.50	0.63	2.41	1.81	14.00	13.50	7.87	48.50	54.45	96.56	38.58
	mm	200.00	200.00	203.00	267.00	292.00	16.00	61.5	46.00	355.00	243.00	200.00	22.00	24.70	43.80	17.50

Globe Valves

Forged Steel Y-Pattern Globe Valves Bolted Bonnet (Class 1500)

Standards:

Design:

API 602

ASME B16.34

Testing:

API 598

Pressure Class:

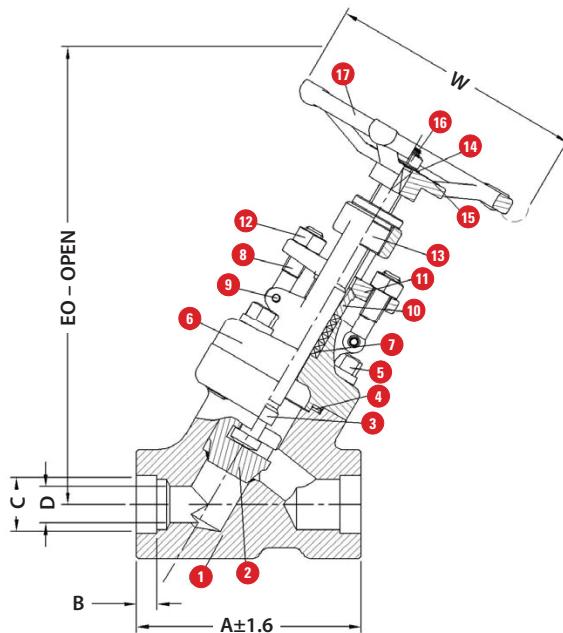
NPT, SW, & BW – 1500

Connections:

NPT – ASME B1.20.1

SW - ASME B16.11

BW – ASME B16.25



MATERIAL LIST						
NO.	Part Name	A105	LF2	F91	F11	F22
1	Body	A105N	A350-LF2	A182-F91	A182-F11	A182-F22
2	Disc			ASTM A276 Gr. 410/CoCr-A (Stellite 6)		316/CoCr-A (Stellite 6)
3	Stem			A276-410		A276-316
4	Gasket			304/Graphite		316/Graphite
5	Body Bolts	A193-B7	A193-B8M		A193-B16	A193-B8M
6	Bonnet	A105N	A350-LF2	A182-F91	A182-F11	A182-F22
7	Packing				Graphite	
8	Eyebolt	B7	L7	B8	B16	B16
9	Eyebolt Pin			A276-410		A276-316
10	Gland	410	304	410	410	410
11	Gland Plate	A105N	A350-LF2	A182-F91	A182-F11	A182-F22
12	Eyebolt Nut	2H	2H	8	2H	2H
13	Op-Nut				A276-410	
14	Lock Washer				Carbon Steel	
15	Nameplate				Aluminum	
16	Handwheel Nut				Carbon Steel	
17	Handwheel				ASTM A 197	

Dimensions and Weights								
SIZE		A	B (Min)	C	D (Min)	E	W	WGT.
1/2	Inch	4.37	0.37	0.87	0.47	6.89	4.92	10.14
	mm	111.0	9.50	22.0	12.0	175	125.0	4.60
3/4	Inch	4.37	0.49	1.07	0.59	8.46	4.92	10.14
	mm	111.0	12.50	27.4	15.0	215	125.0	4.60
1	Inch	5.51	0.49	1.34	0.79	8.46	6.30	20.5
	mm	140.0	12.50	34.1	20.0	215	160.0	9.30
1-1/4	Inch	5.50	0.49	1.68	1.12	10.0	6.30	20.5
	mm	140.0	12.50	42.9	28.0	254	160.0	9.30
1-1/2	Inch	6.12	0.49	1.92	1.25	12.0	7.09	30.86
	mm	155.0	12.50	49.0	32.0	305	180.0	14.0
2	Inch	6.70	0.63	2.41	1.58	13.5	7.87	43.0
	mm	170.0	16.00	61.5	40.0	343	200.0	19.6

Globe Valves

Forged Steel Y-Pattern Globe Valves Welded Bonnet (Class 1500)

Standards:

Design:

API 602
ASME B16.34

Testing:

API 598

Pressure Class:

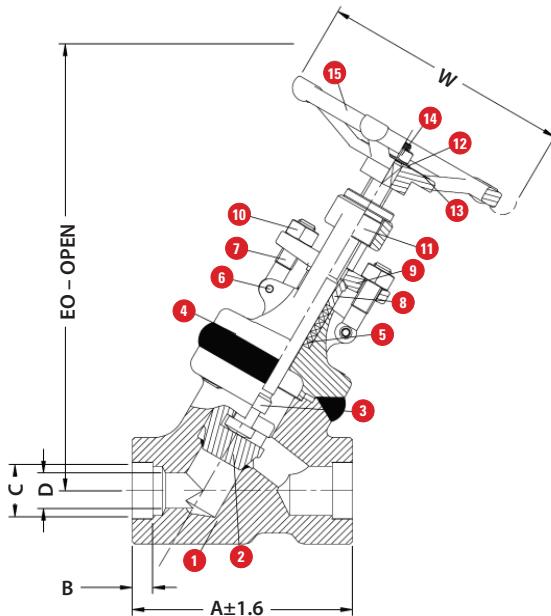
NPT, SW, & BW – 1500

Connections:

NPT – ASME B1.20.1

SW - ASME B16.11

BW – ASME B16.25



MATERIAL LIST

NO.	Part Name	A105	LF2	F91	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F91	A182-F11	A182-F22	A182-F316/F316L
2	Disc			ASTM A276 Gr. 410/CoCr-A (Stellite 6)			316/CoCr-A (Stellite 6)
3	Stem			A276-410			A276-316
4	Bonnet	A105N	A350-LF2	A182-F91	A182-F11	A182-F22	A194-316
5	Packing			Graphite			
6	Eyebolt Pin			A276-410			A276-316
7	Eyebolt	B7	L7	B8	B16	B16	B8M
8	Gland	410	304	410	410	410	316
9	Gland Plate	A105N	A350-LF2	A182-F91	A182-F11	A182-F22	A182-F316/F316L
10	Eyebolt Nut	2H	2H	8	2H	2H	8M
11	Op-Nut			A276-410			
12	Lock Washer			Carbon Steel			
13	Nameplate			Aluminum			
14	Handwheel Nut			Carbon Steel			
15	Handwheel			ASTM A 197			

Dimensions and Weights

SIZE		A	B (Min)	C	D (Min)	E	W	WT.
1/2	Inch	4.37	0.37	0.87	0.47	6.89	4.92	10.14
	mm	111.0	9.50	22.0	12.0	175	125.0	4.60
3/4	Inch	4.37	0.49	1.07	0.59	8.46	4.92	10.14
	mm	111.0	12.50	27.4	15.0	215	125.0	4.60
1	Inch	5.51	0.49	1.34	0.79	8.46	6.30	20.5
	mm	140.0	12.50	34.1	20.0	215	160.0	9.30
1-1/4	Inch	5.50	0.49	1.68	1.12	10.0	6.30	20.5
	mm	140.0	12.50	42.9	28.0	254	160.0	9.30
1-1/2	Inch	6.12	0.49	1.92	1.25	12.0	7.09	30.86
	mm	155.0	12.50	49.0	32.0	305	180.0	14.0
2	Inch	6.70	0.63	2.41	1.58	13.5	7.87	43.0
	mm	170.0	16.00	61.5	40.0	343	200.0	19.6

Globe Valves

Forged Steel Y-Pattern Globe Valves Welded Bonnet (Class 2500)

Standards:

Design:

API 602
ASME B16.34

Testing:

API 598

Pressure Class:

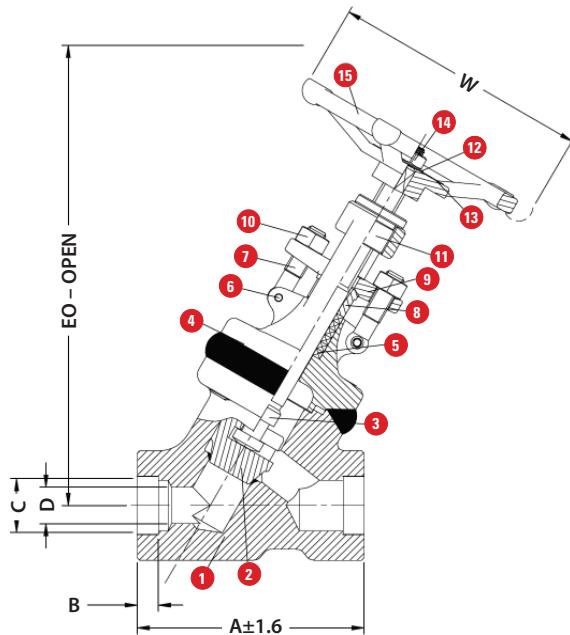
NPT, SW, & BW – 2500

Connections:

NPT – ASME B1.20.1

SW – ASME B16.11

BW – ASME B16.25



MATERIAL LIST						
NO.	Part Name	A105	LF2	F91	F11	F22
1	Body	A105N				A182-F316/F316L
2	Disc			ASTM A276 Gr. 410/CoCr-A (Stellite 6)		316/CoCr-A (Stellite 6)
3	Stem			A276-410		A276-316
4	Bonnet	A105N	A350-LF2	A182-F91	A182-F11	A182-F22
5	Packing				Graphite	A194-316
6	Eyebolt Pin			A276-410		A276-316
7	Eyebolt	B7	L7	B8	B16	B16
8	Gland	410	304	410	410	410
9	Gland Plate	A105N	A350-LF2	A182-F91	A182-F11	A182-F22
10	Eyebolt Nut	2H	2H	8	2H	2H
11	Op-Nut			A276-410		
12	Lock Washer				Carbon Steel	
13	Nameplate				Aluminum	
14	Handwheel Nut				Carbon Steel	
15	Handwheel				ASTM A 197	

Dimensions and Weights							
SIZE		A	B (Min)	C	D (Min)	E	W
1/2	Inch	7.31	0.37	0.87	0.43	12.96	7.87
	mm	186.0	9.50	22.0	11.0	329.0	200.0
3/4	Inch	7.31	0.49	1.07	0.56	12.96	7.87
	mm	186.0	12.50	27.4	14.0	329.0	200.0
1	Inch	7.31	0.49	1.34	0.75	12.96	7.87
	mm	186.0	12.50	34.1	19.0	329.0	200.0
1-1/4	Inch	9.12	0.49	1.68	0.98	13.78	11.00
	mm	232.0	12.50	42.9	25.0	350.0	280.0
1-1/2	Inch	9.12	0.49	1.92	1.12	13.78	11.00
	mm	232.0	12.50	49.0	28.0	350.0	280.0
2	Inch	12.25	0.63	2.41	1.38	15.09	11.81
	mm	310.0	16.00	61.5	35.0	383.0	300.0

Check Valves



Forged Steel Piston Check Valves Standard Port Bolted Bonnet

Standards:
Design:

API 602
MSS SP-118
ASME B16.34

Testing:

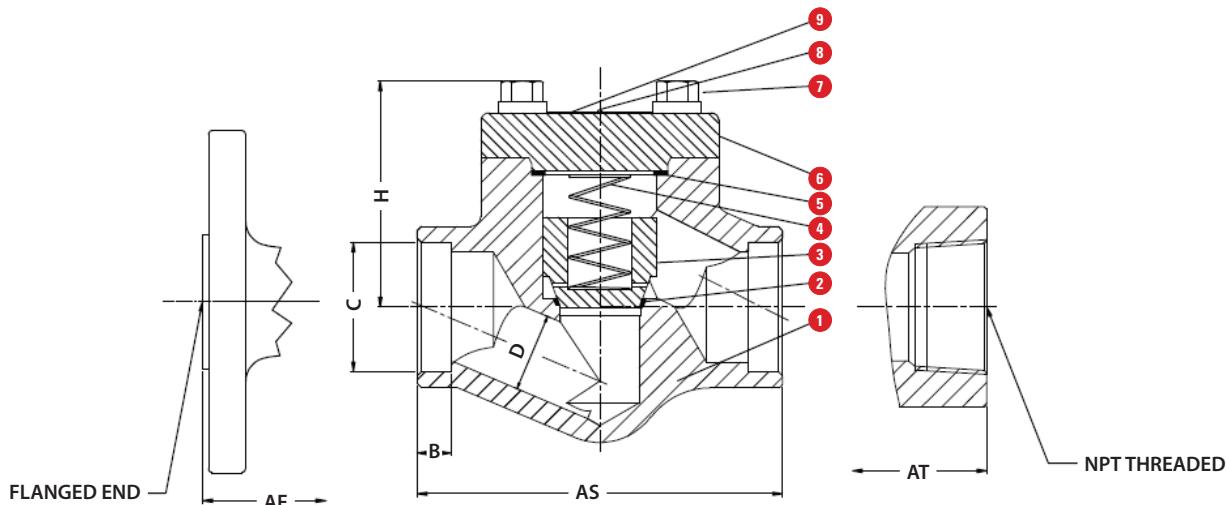
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10


MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring			CoCr-A (Stellite 6)				316/CoCr-A (Stellite 6)
3	Disc			A276-410/CoCr-A (Stellite 6)				
4	Spring				A276-316			
5	Gasket			Spiral Wound 316/Graphite				
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
7	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M
8	Rivet			A276-410				
9	Nameplate			Aluminum				

SIZE	Dimensions and Weights									WGT.				
	inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600	800
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	2.40	7.94	8.16	8.82	3.31
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	61.00	3.60	3.70	4.00	1.50
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	61.00	4.60	4.80	5.80	1.70
1	inch	4.37	4.37	5.00	8.00	8.50	0.49	1.34	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	127.00	203.00	216.00	12.50	34.1	18.00	78.00	8.50	8.80	9.50	3.30
1-1/4	inch	4.75	4.75	5.50	8.50	9.00	0.49	1.68	0.87	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	140.00	216.00	229.00	12.50	42.9	22.00	84.00	9.20	9.60	10.40	4.20
1-1/2	inch	6.00	6.00	6.50	9.00	9.50	0.49	1.92	1.18	3.31	27.56	30.20	34.39	9.26
	mm	152.00	152.00	165.00	229.00	241.00	12.50	49.0	30.00	84.00	12.50	13.70	15.60	4.20
2	inch	6.75	6.75	8.00	10.50	11.50	0.63	2.41	1.42	4.72	32.63	39.24	54.00	23.15
	mm	172.00	172.00	203.00	267.00	292.00	16.00	61.5	36.00	120.00	14.80	17.80	24.50	10.50

Check Valves

Forged Steel Piston Check Valves Standard Port Welded Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

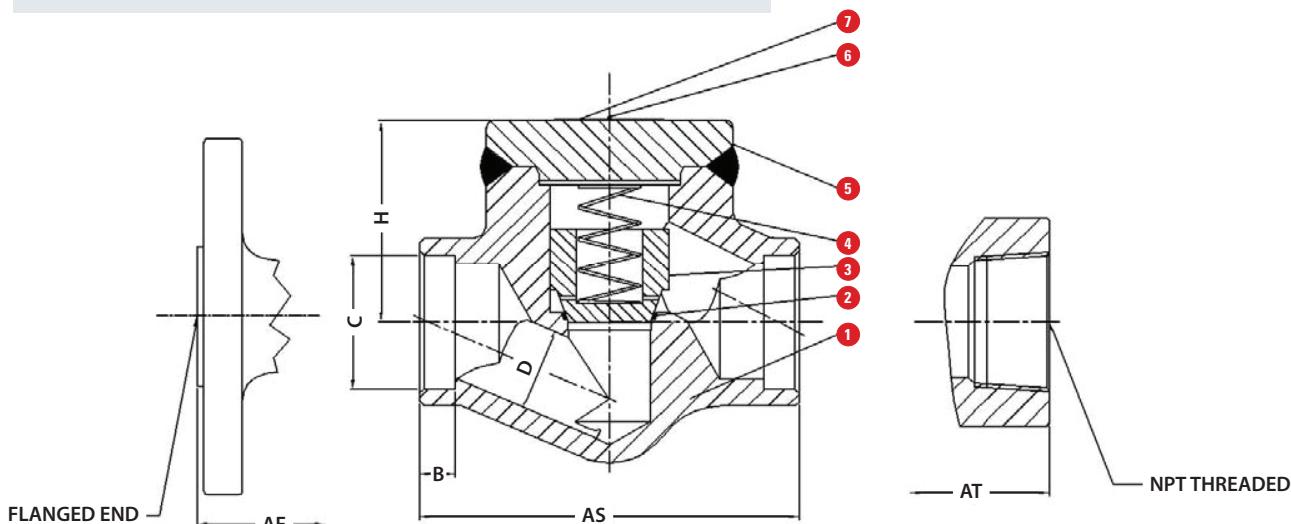
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring				CoCr-A (Stellite 6)			316/CoCr-A (Stellite 6)
3	Disc			A276-410/CoCr-A (Stellite 6)				
4	Spring				A276-316			
5	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
6	Rivet				A276-410			
7	Nameplate				Aluminum			

Dimensions and Weights

SIZE		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	WGT.			
											150	300	600	800
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	2.40	7.94	8.16	8.82	3.31
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	61.00	3.60	3.70	4.00	1.50
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	61.00	4.60	4.80	5.80	1.70
1	inch	4.37	4.37	5.00	8.00	8.50	0.49	1.34	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	127.00	203.00	216.00	12.50	34.1	18.00	78.00	8.50	8.80	9.50	3.30
1-1/4	inch	4.75	4.75	5.50	8.50	9.00	0.49	1.68	0.87	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	140.00	216.00	229.00	12.50	42.9	22.00	84.00	9.20	9.60	10.40	4.20
1-1/2	inch	6.00	6.00	6.50	9.00	9.50	0.49	1.92	1.18	3.31	27.56	30.20	34.39	9.26
	mm	152.00	152.00	165.00	229.00	241.00	12.50	49.0	30.00	84.00	12.50	13.70	15.60	4.20
2	inch	6.75	6.75	8.00	10.50	11.50	0.63	2.41	1.42	4.72	32.63	39.24	54.00	23.15
	mm	172.00	172.00	203.00	267.00	292.00	16.00	61.5	36.00	120.00	14.80	17.80	24.50	10.50

Check Valves

Forged Steel Piston Check Valves Full Port Bolted Bonnet

Standards:
Design:

API 602
MSS SP-118
ASME B16.34

Testing:

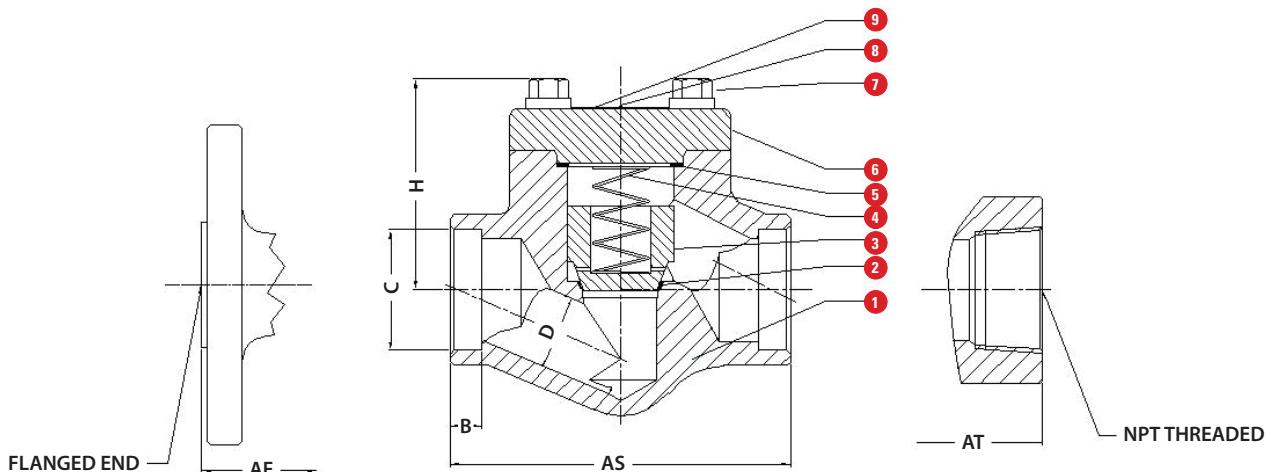
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10


MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring				CoCr-A (Stellite 6)			316/CoCr-A (Stellite 6)
3	Disc			A276-410/CoCr-A (Stellite 6)				
4	Spring				A276-316			
5	Gasket				Spiral Wound 316/Graphite			
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
7	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M
8	Rivet				A276-410			
9	Nameplate				Aluminum			

SIZE	Dimensions and Weights									WGT.				
	inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600	800
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	61.00	4.60	4.80	5.80	1.70
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	78.00	8.50	8.80	9.50	3.30
1	inch	4.75	4.75	5.00	8.00	8.50	0.49	1.34	0.87	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	127.00	203.00	216.00	12.50	34.1	22.00	84.00	9.20	9.60	10.40	4.20
1-1/4	inch	6.00	6.00	5.50	8.50	9.00	0.49	1.68	1.18	3.31	27.56	30.20	34.39	9.26
	mm	152.00	152.00	140.00	216.00	229.00	12.50	42.9	30.00	84.00	12.50	13.70	15.60	4.20
1-1/2	inch	6.75	6.75	6.50	9.00	9.50	0.49	1.92	1.42	4.72	32.63	39.24	54.00	23.15
	mm	172.00	172.00	165.00	229.00	241.00	12.50	49.0	36.00	120.00	14.80	17.80	24.50	10.50
2	inch	7.87	7.87	8.00	10.50	11.50	0.63	2.41	1.81	5.19	37.03	43.65	58.42	27.56
	mm	200.00	200.00	203.00	267.00	292.00	16.00	61.5	46.00	132.00	16.80	19.80	26.50	12.50

Check Valves

Forged Steel Piston Check Valves Full Port Welded Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

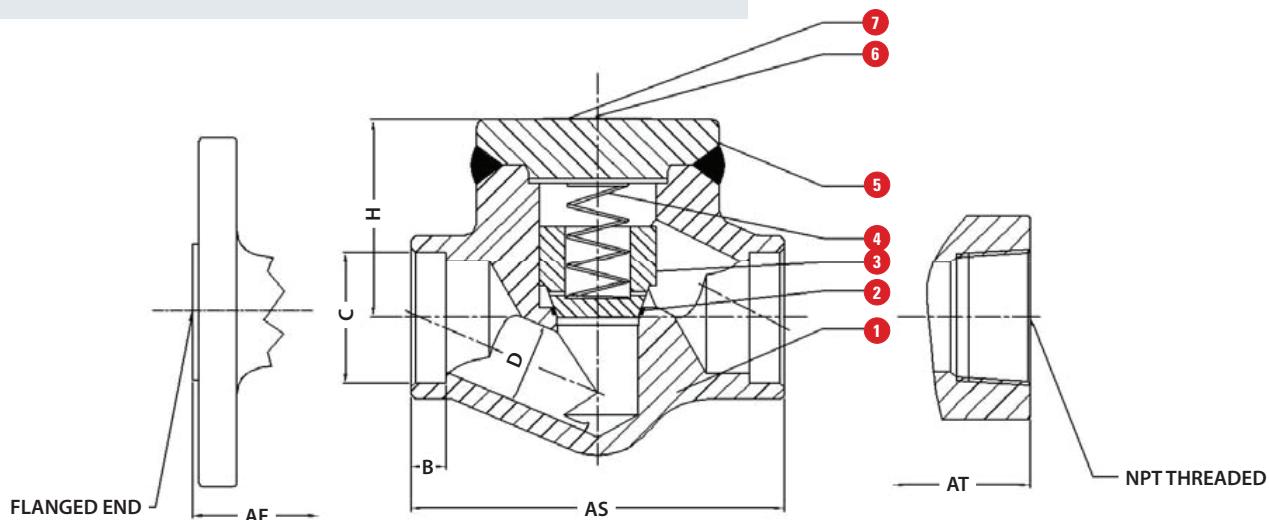
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring				CoCr-A (Stellite 6)			316/CoCr-A (Stellite 6)
3	Disc			A276-410/CoCr-A (Stellite 6)				
4	Spring				A276-316			
5	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
6	Rivet				A276-410			
7	Nameplate					Aluminum		

Dimensions and Weights

SIZE		Dimensions and Weights								WGT.				
		inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	61.00	4.60	4.80	5.80	1.70
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	78.00	8.50	8.80	9.50	3.30
1	inch	4.72	4.72	5.00	8.50	8.50	0.49	1.34	0.94	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	127.00	216.00	216.00	12.50	34.1	24.00	84.00	9.20	9.60	10.40	4.20
1-1/4	inch	4.72	4.72	5.50	9.00	9.00	0.49	1.68	1.14	3.31	27.56	30.20	34.39	9.26
	mm	120.00	120.00	140.00	229.00	229.00	12.50	42.9	29.00	84.00	12.50	13.70	15.60	4.20
1-1/2	inch	5.50	5.50	6.50	9.50	9.50	0.49	1.92	1.42	4.72	32.63	39.24	54.00	18.74
	mm	140.00	140.00	165.00	241.00	241.00	12.50	49.0	36.00	120.00	14.80	17.80	24.50	8.50
2	inch	5.90	5.90	8.00	10.50	11.50	0.63	2.41	1.98	5.51	42.63	59.24	74.00	28.74
	mm	150.00	150.00	203.00	267.00	292.00	16.00	61.5	50.4	140.00	19.37	26.87	33.56	13.04

Check Valves

Forged Steel Swing Check Valves Standard Port Bolted Bonnet

Standards:
Design:

API 602
MSS SP-118
ASME B16.34

Testing:

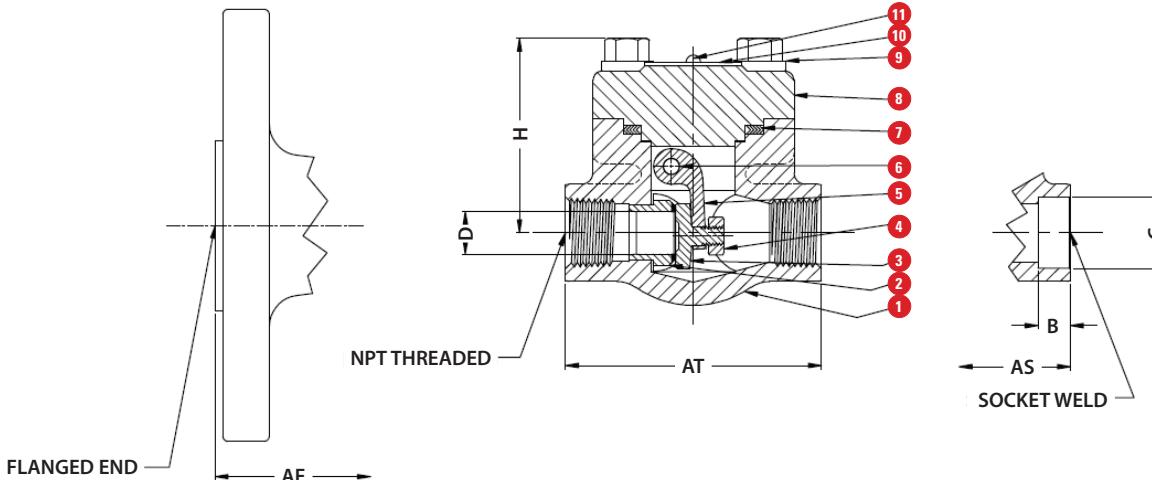
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10


MATERIAL LIST

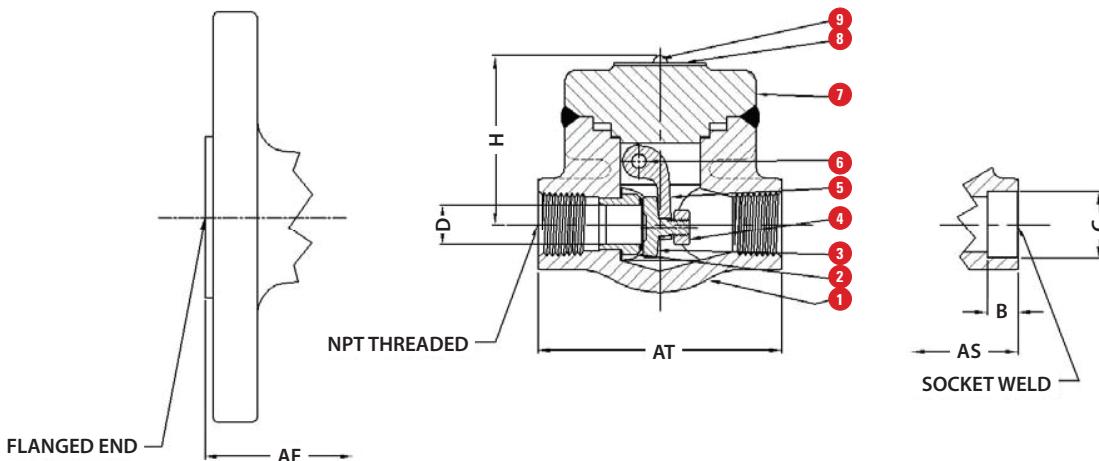
NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L			
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				316/CoCr-A (Stellite 6)			
3	Disc			A276-410				A276-316			
4	Disc Nut			A194-2H				A194-316			
5	Swing Arm			A276-316							
6	Hinge Pin			A276-316							
7	Gasket			Spiral Wound 316/Graphite							
8	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
9	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M			
10	Nameplate			Aluminum							
11	Rivet			A276-410							

SIZE	Dimensions and Weights								WGT.					
	inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600	800
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	2.40	7.94	8.16	8.82	3.31
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	61.00	3.60	3.70	4.00	1.50
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	61.00	4.60	4.80	5.80	1.70
1	inch	4.37	4.37	5.00	8.50	8.50	0.49	1.34	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	127.00	216.00	216.00	12.50	34.1	18.00	78.00	8.50	8.80	9.50	3.30
1-1/4	inch	4.75	4.75	5.50	9.00	9.00	0.49	1.68	0.94	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	140.00	229.00	229.00	12.50	42.9	24.00	84.00	9.20	9.60	10.40	4.20
1-1/2	inch	4.75	4.75	6.50	9.50	9.50	0.49	1.92	1.14	3.31	27.56	30.20	34.39	9.26
	mm	120.00	120.00	165.00	241.00	241.00	12.50	49.0	29.00	84.00	12.50	13.70	15.60	4.20
2	inch	5.50	5.50	8.00	10.50	11.50	0.63	2.41	1.42	4.72	32.63	39.24	54.00	18.74
	mm	140.00	140.00	203.00	267.00	292.00	16.00	61.5	36.00	120.00	14.80	17.80	24.50	8.50

Check Valves

Forged Steel Swing Check Valves Standard Port Welded Bonnet

Standards:	Pressure Class:
Design:	NPT & SW – 800 FLANGED – 150,300,600
API 602 MSS SP-118 ASME B16.34	
Testing:	NPT – ASME B1.20.1 SW - ASME B16.11 FLANGED – ASME B16.5 ASME B16.10
API 598	



MATERIAL LIST								
NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring	A276-410/CoCr-A (Stellite 6)						316/CoCr-A (Stellite 6)
3	Disc	A276-410						A276-316
4	Disc Nut	A194-2H						A194-316
5	Swing Arm	A276-316						
6	Hinge Pin	A276-316						
7	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
8	Nameplate	Aluminum						
9	Rivet	A276-410						

SIZE		Dimensions and Weights								WGT.				
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600	800
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	2.40	7.94	8.16	8.82	3.31
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	61.00	3.60	3.70	4.00	1.50
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	61.00	4.60	4.80	5.80	1.70
1	inch	4.37	4.37	5.00	8.50	8.50	0.49	1.34	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	127.00	216.00	216.00	12.50	34.1	18.00	78.00	8.50	8.80	9.50	3.30
1-1/4	inch	4.75	4.75	5.50	9.00	9.00	0.49	1.68	0.94	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	140.00	229.00	229.00	12.50	42.9	24.00	84.00	9.20	9.60	10.40	4.20
1-1/2	inch	4.75	4.75	6.50	9.50	9.50	0.49	1.92	1.14	3.31	27.56	30.20	34.39	9.26
	mm	120.00	120.00	165.00	241.00	241.00	12.50	49.0	29.00	84.00	12.50	13.70	15.60	4.20
2	inch	5.50	5.50	8.00	10.50	11.50	0.63	2.41	1.42	4.72	32.63	39.24	54.00	18.74
	mm	140.00	140.00	203.00	267.00	292.00	16.00	61.5	36.00	120.00	14.80	17.80	24.50	8.50

Check Valves

Forged Steel Swing Check Valves Full Port Bolted Bonnet

Standards:
Design:

API 602
MSS SP-118
ASME B16.34

Testing:

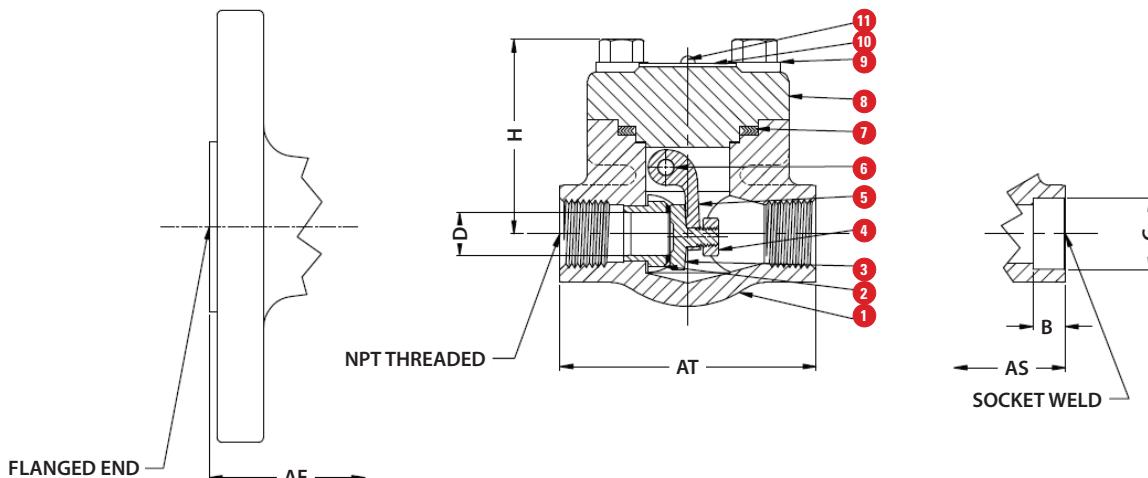
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10


MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L			
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				316/CoCr-A (Stellite 6)			
3	Disc			A276-410				A276-316			
4	Disc Nut			A194-2H				A194-316			
5	Swing Arm			A276-316							
6	Hinge Pin			A276-316							
7	Gasket			Spiral Wound 316/Graphite							
8	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
9	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M			
10	Nameplate			Aluminum							
11	Rivet			A276-410							

SIZE	Dimensions and Weights									WGT.				
	inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600	800
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	61.00	4.60	4.80	5.80	1.70
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	78.00	8.50	8.80	9.50	3.30
1	inch	4.72	4.72	5.00	8.50	8.50	0.49	1.34	0.94	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	127.00	216.00	216.00	12.50	34.1	24.00	84.00	9.20	9.60	10.40	4.20
1-1/4	inch	4.72	4.72	5.50	9.00	9.00	0.49	1.68	1.14	3.31	27.56	30.20	34.39	9.26
	mm	120.00	120.00	140.00	229.00	229.00	12.50	42.9	29.00	84.00	12.50	13.70	15.60	4.20
1-1/2	inch	5.50	5.50	6.50	9.50	9.50	0.49	1.92	1.42	4.72	32.63	39.24	54.00	18.74
	mm	140.00	140.00	165.00	241.00	241.00	12.50	49.0	36.00	120.00	14.80	17.80	24.50	8.50
2	inch	5.90	5.90	8.00	10.50	11.50	0.63	2.41	1.98	5.51	42.63	59.24	74.00	28.74
	mm	150.00	150.00	203.00	267.00	292.00	16.00	61.5	50.4	140.00	19.37	26.87	33.56	13.04

Check Valves

Forged Steel Swing Check Valves Full Port Welded Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

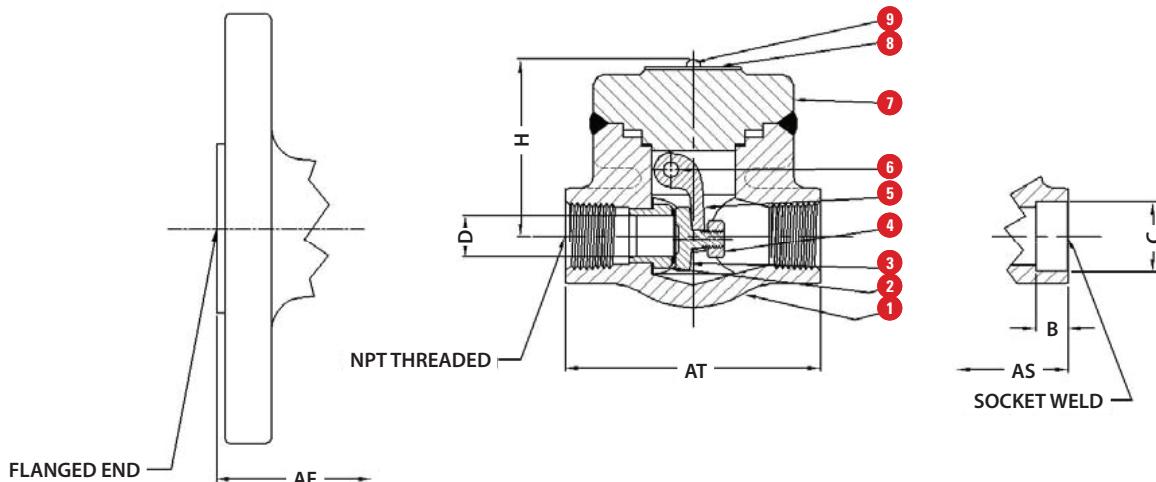
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring			A276-410/CoCr-A (Stellite 6)				316/CoCr-A (Stellite 6)
3	Disc			A276-410				A276-316
4	Disc Nut			A194-2H				A194-316
5	Swing Arm				A276-316			
6	Hinge Pin				A276-316			
7	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
8	Nameplate				Aluminum			
9	Rivet				A276-410			

Dimensions and Weights

SIZE		Dimensions and Weights								WGT.				
		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600	800
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	61.00	4.60	4.80	5.80	1.70
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	78.00	8.50	8.80	9.50	3.30
1	inch	4.72	4.72	5.00	8.50	8.50	0.49	1.34	0.94	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	127.00	216.00	216.00	12.50	34.1	24.00	84.00	9.20	9.60	10.40	4.20
1-1/4	inch	4.72	4.72	5.50	9.00	9.00	0.49	1.68	1.14	3.31	27.56	30.20	34.39	9.26
	mm	120.00	120.00	140.00	229.00	229.00	12.50	42.9	29.00	84.00	12.50	13.70	15.60	4.20
1-1/2	inch	5.50	5.50	6.50	9.50	9.50	0.49	1.92	1.42	4.72	32.63	39.24	54.00	18.74
	mm	140.00	140.00	165.00	241.00	241.00	12.50	49.0	36.00	120.00	14.80	17.80	24.50	8.50
2	inch	5.90	5.90	8.00	10.50	11.50	0.63	2.41	1.98	5.51	42.63	59.24	74.00	28.74
	mm	150.00	150.00	203.00	267.00	292.00	16.00	61.5	50.4	140.00	19.37	26.87	33.56	13.04

Check Valves

Forged Steel Y-Pattern Check Valves Welded Bonnet (Class 1500)

Standards:

Design:

API 602
ASME B16.34

Testing:

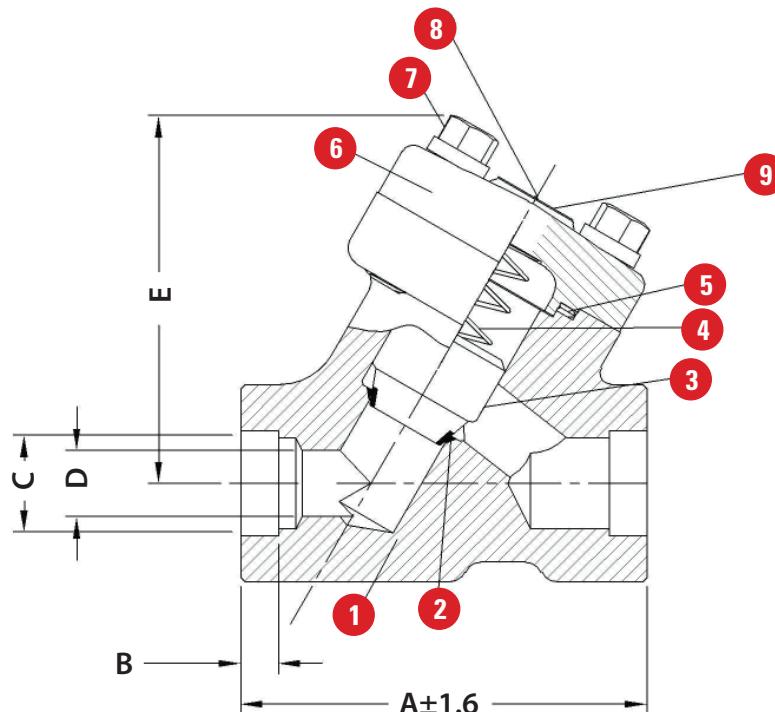
API 598

Pressure Class:

NPT, SW, & BW – 1500

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
BW – ASME B16.25



MATERIAL LIST											
NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L			
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
2	Seat Ring	CoCr-A (Stellite 6)						316/CoCr-A (Stellite 6)			
3	Disc	ASTM A276 Gr. 410/CoCr-A (Stellite 6)									
4	Spring	A276-316									
5	Gasket	Spiral Wound 316/Graphite									
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
7	Body Bolt	A193-B7	A193-B8M	A193-B16			A193-B8M				
8	Op-Nut	A276-410									
9	Nameplate	Aluminum									

Dimensions and Weights							
SIZE		A	B (Min)	C	D (Min)	E	WGT.
1/2	Inch	4.72	0.37	0.87	0.43	2.75	9.25
	mm	120.0	9.50	22.0	11.0	70	4.2
3/4	Inch	4.72	0.49	1.07	0.51	3.94	19.84
	mm	120.0	12.50	27.4	13.0	100	9.0
1	Inch	5.50	0.49	1.34	0.71	4.33	19.84
	mm	140.0	12.50	34.1	18.0	110	9.0
1-1/4	Inch	6.12	0.49	1.68	1.12	4.33	33.07
	mm	155.0	12.50	42.9	28.0	110	15.0
1-1/2	Inch	6.12	0.49	1.92	1.25	4.72	33.07
	mm	155.0	12.50	49.0	32.0	120	15.0
2	Inch	6.70	0.63	2.41	1.58	5.91	39.68
	mm	170.0	16.00	61.5	40.0	150	18.0

Check Valves

Forged Steel Y-Pattern Check Valves Welded Bonnet (Class 1500)

Standards:

Design:

API 602
ASME B16.34

Testing:

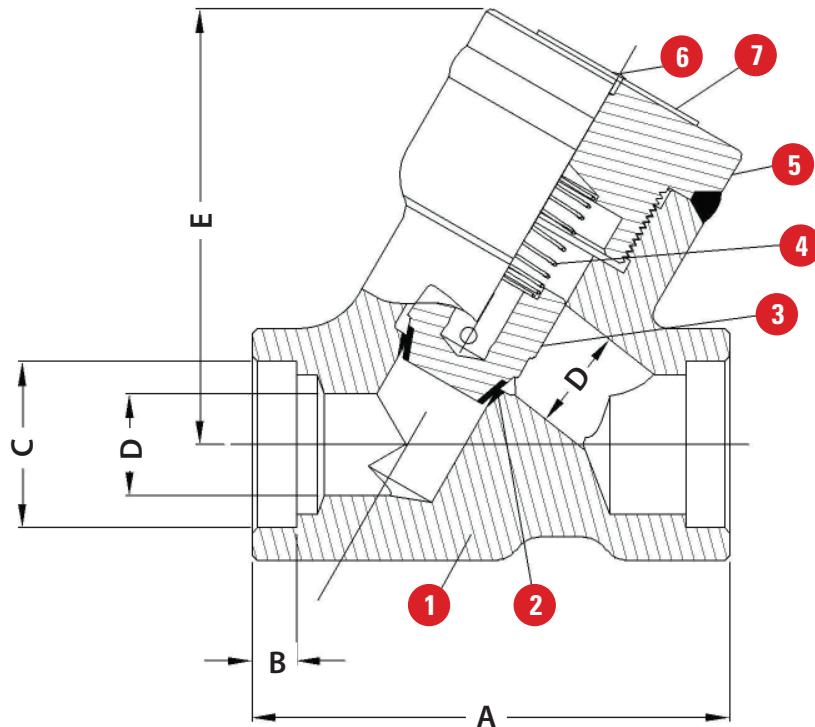
API 598

Pressure Class:

NPT, SW, & BW – 1500

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
BW – ASME B16.25



MATERIAL LIST							
NO.	Part Name	A105	LF2	F91	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F91	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring	CoCr-A (Stellite 6)					
3	Disc	A276-410/CoCr-A (Stellite 6)					
4	Spring	A276-316					
5	Bonnet	A105N	A350-LF2	A182-F91	A182-F11	A182-F22	A182-F316/F316L
6	Rivet	A276-410					
7	Nameplate	Aluminum					

SIZE	Dimensions and Weights						
	Inch	A	B (Min)	C	D (Min)	E	WGT.
1/2	inch	4.72	0.37	0.87	0.43	2.75	9.25
	mm	120.0	9.50	22.0	11.0	70	4.2
3/4	inch	4.72	0.49	1.07	0.51	3.94	19.84
	mm	120.0	12.50	27.4	13.0	100	9.0
1	inch	5.50	0.49	1.34	0.71	4.33	19.84
	mm	140.0	12.50	34.1	18.0	110	9.0
1-1/4	inch	6.12	0.49	1.68	1.12	4.33	33.07
	mm	155.0	12.50	42.9	28.0	110	15.0
1-1/2	inch	6.12	0.49	1.92	1.25	4.72	33.07
	mm	155.0	12.50	49.0	32.0	120	15.0
2	inch	6.70	0.63	2.41	1.58	5.91	39.68
	mm	170.0	16.00	61.5	40.0	150	18.0

Forged Steel Ball Check Valves Standard Port Bolted Bonnet

Standards:
Design:

API 602
MSS SP-118
ASME B16.34

Testing:

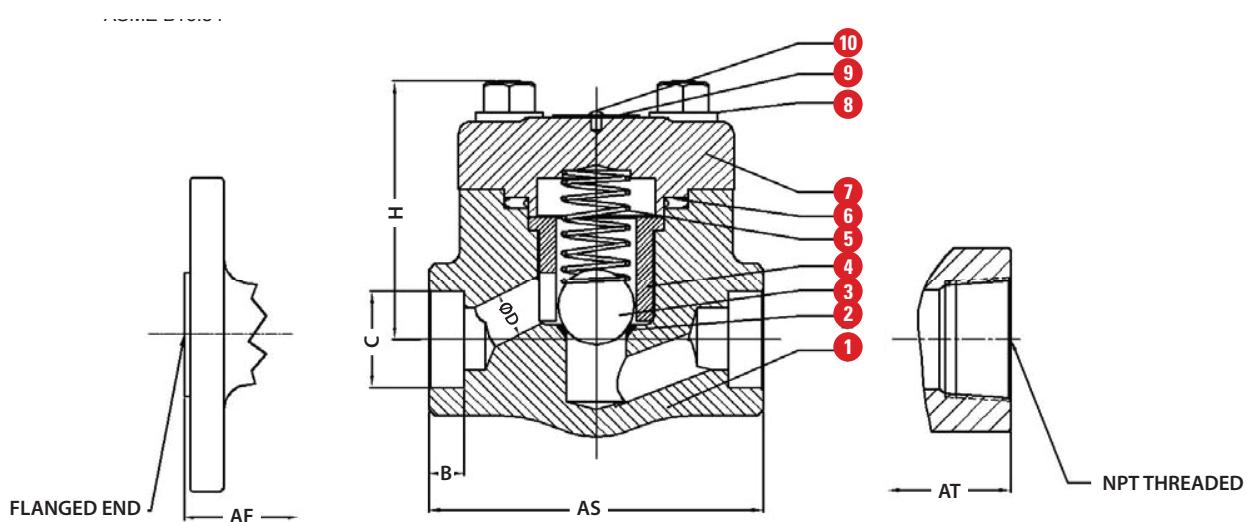
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10


MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L			
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
2	Seat Ring			CoCr-A (Stellite 6)				316/CoCr-A (Stellite 6)			
3	Bail			A276-440C							
4	Guide			A276-410							
5	Spring			A276-316							
6	Gasket			Spiral Wound 316/Graphite							
7	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L			
8	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M			
9	Nameplate			Aluminum							
10	Rivet			A276-410							

SIZE	Dimensions and Weights									WGT.				
	inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600	800
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	2.40	7.94	8.16	8.82	3.31
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	61.00	3.60	3.70	4.00	1.50
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	61.00	4.60	4.80	5.80	1.70
1	inch	4.37	4.37	5.00	8.00	8.50	0.49	1.34	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	127.00	203.00	216.00	12.50	34.1	18.00	78.00	8.50	8.80	9.50	3.30
1-1/4	inch	4.75	4.75	5.50	8.50	9.00	0.49	1.68	0.87	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	140.00	216.00	229.00	12.50	42.9	22.00	84.00	9.20	9.60	10.40	4.20
1-1/2	inch	6.00	6.00	6.50	9.00	9.50	0.49	1.92	1.18	3.31	27.56	30.20	34.39	9.26
	mm	152.00	152.00	165.00	229.00	241.00	12.50	49.0	30.00	84.00	12.50	13.70	15.60	4.20
2	inch	6.75	6.75	8.00	10.50	11.50	0.63	2.41	1.42	4.72	32.63	39.24	54.00	23.15
	mm	172.00	172.00	203.00	267.00	292.00	16.00	61.5	36.00	120.00	14.80	17.80	24.50	10.50

Ball Valves

Forged Steel Ball Check Valves Full Port Bolted Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

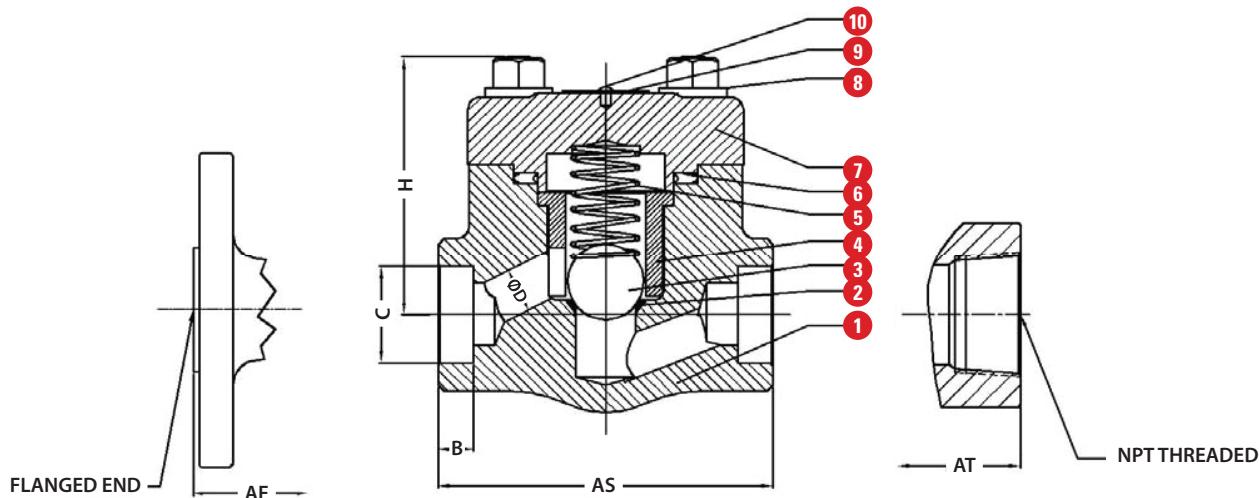
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring				CoCr-A (Stellite 6)			316/CoCr-A (Stellite 6)
3	Bail				A276-440C			
4	Guide				A276-410			
5	Spring				A276-316			
6	Gasket				Spiral Wound 316/Graphite			
7	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
8	Body Bolt	A193-B7	A193-B8M		A193-B16			A193-B8M
9	Nameplate				Aluminum			
10	Rivet				A276-410			

Dimensions and Weights

SIZE		Dimensions and Weights								WGT.				
		inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	61.00	4.60	4.80	5.80	1.70
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	78.00	8.50	8.80	9.50	3.30
1	inch	4.75	4.75	5.00	8.00	8.50	0.49	1.34	0.87	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	127.00	203.00	216.00	12.50	34.1	22.00	84.00	9.20	9.60	10.40	4.20
1-1/4	inch	6.00	6.00	5.50	8.50	9.00	0.49	1.68	1.18	3.31	27.56	30.20	34.39	9.26
	mm	152.00	152.00	140.00	216.00	229.00	12.50	42.9	30.00	84.00	12.50	13.70	15.60	4.20
1-1/2	inch	6.75	6.75	6.50	9.00	9.50	0.49	1.92	1.42	4.72	32.63	39.24	54.00	23.15
	mm	172.00	172.00	165.00	229.00	241.00	12.50	49.0	36.00	120.00	14.80	17.80	24.50	10.50
2	inch	7.87	7.87	8.00	10.50	11.50	0.63	2.41	1.81	5.19	37.03	43.65	58.42	27.56
	mm	200.00	200.00	203.00	267.00	292.00	16.00	61.5	46.00	132.00	16.80	19.80	26.50	12.50

Forged Steel Ball Check Valves Standard Port Welded Bonnet

Standards:
Design:

API 602
MSS SP-118
ASME B16.34

Testing:

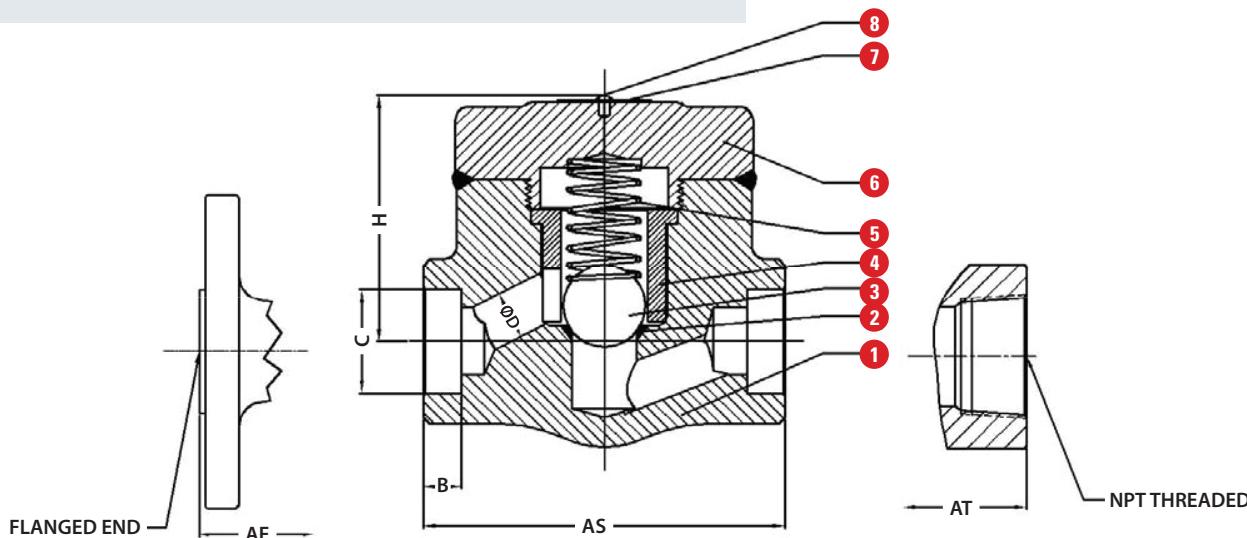
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10


MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring			CoCr-A (Stellite 6)				316/CoCr-A (Stellite 6)
3	Ball			A276-440C				
4	Guide			A276-410				
5	Spring			A276-316				
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
7	Nameplate			Aluminum				
8	Rivet			A276-410				

Dimensions and Weights

SIZE		AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	WGT.			
											150	300	600	800
1/2	inch	3.11	3.11	4.25	6.00	6.50	0.37	0.87	0.39	2.40	7.94	8.16	8.82	3.31
	mm	79.00	79.00	108.00	152.00	165.00	9.50	22.0	10.00	61.00	3.60	3.70	4.00	1.50
3/4	inch	3.62	3.62	4.60	7.00	7.50	0.49	1.07	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	117.00	178.00	190.00	12.50	27.4	13.00	61.00	4.60	4.80	5.80	1.70
1	inch	4.37	4.37	5.00	8.00	8.50	0.49	1.34	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	127.00	203.00	216.00	12.50	34.1	18.00	78.00	8.50	8.80	9.50	3.30
1-1/4	inch	4.75	4.75	5.50	8.50	9.00	0.49	1.68	0.87	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	140.00	216.00	229.00	12.50	42.9	22.00	84.00	9.20	9.60	10.40	4.20
1-1/2	inch	6.00	6.00	6.50	9.00	9.50	0.49	1.92	1.18	3.31	27.56	30.20	34.39	9.26
	mm	152.00	152.00	165.00	229.00	241.00	12.50	49.0	30.00	84.00	12.50	13.70	15.60	4.20
2	inch	6.75	6.75	8.00	10.50	11.50	0.63	2.41	1.42	4.72	32.63	39.24	54.00	23.15
	mm	172.00	172.00	203.00	267.00	292.00	16.00	61.5	36.00	120.00	14.80	17.80	24.50	10.50

Ball Valves

Forged Steel Ball Check Valves Full Port Welded Bonnet

Standards:

Design:

API 602
MSS SP-118
ASME B16.34

Testing:

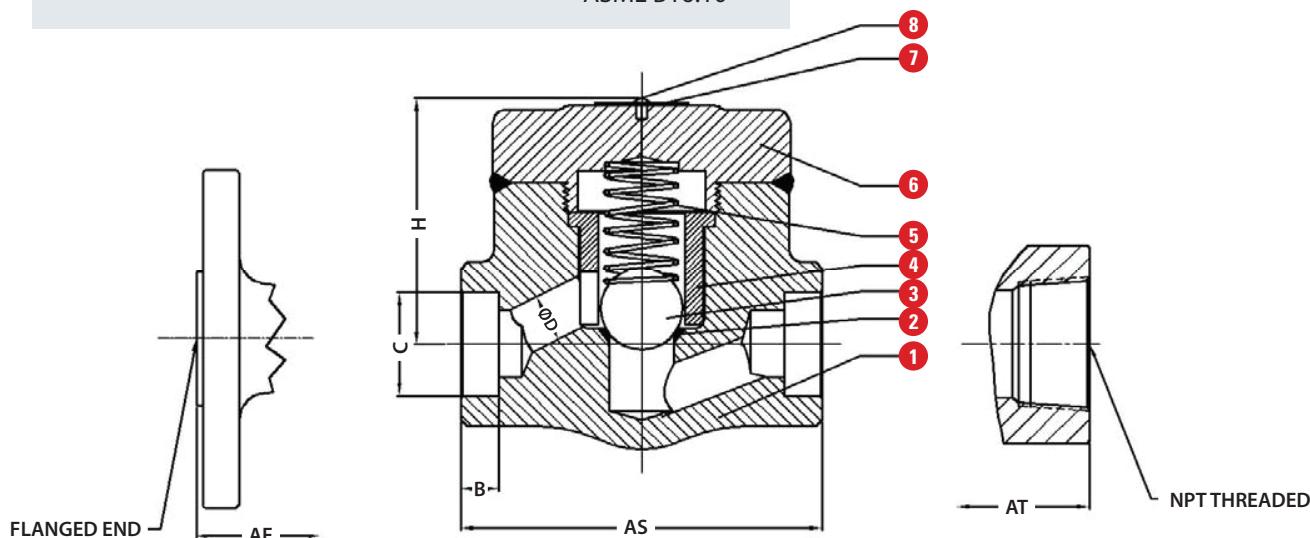
API 598

Pressure Class:

NPT & SW – 800
FLANGED – 150,300,600

Connections:

NPT – ASME B1.20.1
SW - ASME B16.11
FLANGED – ASME B16.5
ASME B16.10



MATERIAL LIST

NO.	Part Name	A105	LF2	F5	F9	F11	F22	F316/F316L
1	Body	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
2	Seat Ring			CoCr-A (Stellite 6)				316/CoCr-A (Stellite 6)
3	Bail			A276-440C				
4	Guide			A276-410				
5	Spring				A276-316			
6	Bonnet	A105N	A350-LF2	A182-F5	A182-F9	A182-F11	A182-F22	A182-F316/F316L
6	Gasket				Spiral Wound 316/Graphite			
7	Nameplate				Aluminum			
8	Rivet				A276-410			

Dimensions and Weights

SIZE		Dimensions and Weights								WGT.				
		inch	AT	AS	AF-150	AF-300	AF-600	B	C	D (Min)	H	150	300	600
1/2	inch	3.62	3.62	4.25	6.00	6.50	0.37	0.87	0.51	2.40	10.14	10.58	12.79	3.75
	mm	92.00	92.00	108.00	152.00	165.00	9.50	22.0	13.00	61.00	4.60	4.80	5.80	1.70
3/4	inch	4.37	4.37	4.60	7.00	7.50	0.49	1.07	0.71	3.09	18.75	19.40	20.94	7.28
	mm	111.00	111.00	117.00	178.00	190.00	12.50	27.4	18.00	78.00	8.50	8.80	9.50	3.30
1	inch	4.75	4.75	5.00	8.00	8.50	0.49	1.34	0.87	3.31	20.29	21.16	22.93	9.26
	mm	120.00	120.00	127.00	203.00	216.00	12.50	34.1	22.00	84.00	9.20	9.60	10.40	4.20
1-1/4	inch	6.00	6.00	5.50	8.50	9.00	0.49	1.68	1.18	3.31	27.56	30.20	34.39	9.26
	mm	152.00	152.00	140.00	216.00	229.00	12.50	42.9	30.00	84.00	12.50	13.70	15.60	4.20
1-1/2	inch	6.75	6.75	6.50	9.00	9.50	0.49	1.92	1.42	4.72	32.63	39.24	54.00	23.15
	mm	172.00	172.00	165.00	229.00	241.00	12.50	49.0	36.00	120.00	14.80	17.80	24.50	10.50
2	inch	7.87	7.87	8.00	10.50	11.50	0.63	2.41	1.81	5.19	37.03	43.65	58.42	27.56
	mm	200.00	200.00	203.00	267.00	292.00	16.00	61.5	46.00	132.00	16.80	19.80	26.50	12.50

Ball Valves

- Flanged Trunnion Ball Valves
- Flanged Floating Ball Valves
- Metal Seated

Shut-Off Pig Valves

- Launchers
- Catchers
- Receivers

Butterfly Valves

- Soft Seat
- Sizes 2" thru 24"
- Pressure Rating 200psi
- Wafer body
- Lugged body

Actuators

- Rack & Pinion
- Max. Torque D.A. – 55,600 lbs. in.
- Max. Torque S.R. – 20,700 lbs. in.
- Scotch Yoke per application

Parts for all Products and Technical Engineering Support Available



API-6A Wellheads

- Casing Heads
- Casing Hangers
- Tubing Heads
- Tubing Hangers
- Spools
- Components
 - Tees (Standard)
 - Crosses
 - Tree Caps
 - Goat Heads
 - Seal Subs
- Additional Components Available

Actuated Safety Valves

- Hydraulic
- Piston
- Diaphragm
- Upper Assembly
- Automated Valve Assembly
- Electro/hydraulic

Limited Product Warranty



Tiger Valve Company (TVC) manufactured products warrants for, (a) twelve (12) months from date of installation or (b) eighteen (18) months from date of sales, whichever period expires first, to be free from defects in workmanship and materials, not caused or resulting from improper usage or application, provided all equipment is maintained in accordance with TVC "Valve & Equipment Storage Procedure".

Any repair work performed by TVC is warranted for twelve (12) months after completion of such repairs and applies only to work performed. Should TVC receive notice from Buyer within these twelve (12) months of any alleged defect in or nonconformance of any repair, then Buyer shall return the part or product to TVC specified service location at TVC request.

In the event TVC shall determine that the product is defective as a result of factory workmanship based upon such examination of the product which TVC may deem appropriate, TVC shall thereupon, at its sole option, (a) cause the defective product to be repaired, (b) replace with a substantially identical

product, or (c) accept the return of a defective product and refund the purchasing price to the original purchaser. TVC shall bear all normal surface transportation costs to the original purchaser but shall in no event bear any installation, re-installation, engineering or other costs incurred in connection with repair or replacement.

TVC warranty liability shall be limited to repair, replacement or refund and shall not include claims for labor costs, expenses of Buyer resulting from defects, recovery under general tort law or strict liability or for damages resulting from delays, loss of use or other direct, indirect, incidental or consequential damages of any kind.

TVC will not be responsible for failures of products which have been in any way tampered with or altered by anyone other than an authorized representative of TVC utilizing the TVC Installation and Maintenance Procedure (IOM).

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE WHICH EXCEED THE FOREGOING WARRANTY.

If you have questions regarding this warranty or if you need additional information concerning Tiger Valve Company products or services, please contact us at the address and number below.

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www.tigervalve.com



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