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Introduction

Quality is our commitment, while competitive price and timely delivery is our promise. **From** the beginning, the DHV name has become associated with quality in every step of our manufacturing process. For the past decades our customers worldwide have trusted us to provide them with consistent and reliable valve products in their most severe and critical service. **We** at DHV are proud of our ability to meet the stringent requirements of Refining, Gas/Oil, Pipeline, Petrochemical and Power Plant.

DHV Forged Steel Valves are designed, manufactured and tested to the latest manufacturing specifications of the American & International Standards Organizations. We welcome your challenges and look forward to serving your critical project needs.

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Code

C = Cast Steel Valves

I = Cast Iron Valves

W = Wellhead Valves WB = Wafer Butterfly Valves

B = Ball Valves

F = Forged Steel Valves

DHV Figure Numbers **Forged Steel Valves**

Body Material

Type

- 1 = Gate
- 2 = Globe
- 3 = Y Pattern Globe
- 4 = Piston Check
- 5 = Lift Check With Spring
- 6 = Swing Check
- 7 = Y Pattern Check
- 8 = Needle Globe
- 9 = Cryogenic Gate
- 0 = Cryogenic Globe
- X = Special

Pressure Class

- 15 = Class 150
- 30 = Class 300
- 40 = Class 400
- 60 = Class 600
- 80 = Class 800
- 90 = Class 900
- 150 = Class 1500
- 250 = Class 2500

- 0 = ASTM A105
- 1 = ASTM A350 LF2
- 2 = ASTM A182 F5
- 3 = ASTM A350 LF3
- 4 = ASTM A182 F11
- 5 = ASTM A182 F22
- 6 = ASTM A182 F304
- 7 = ASTM A182 F316
- 8 = ASTM A182 F304L
- 9 = ASTM A182 F316L
- A = ASTM A182 F51
- X = Special

2" Forged Steel Gate Valve, Class 800, A105 Body & Bonnet, Socket Weld End, With HF / HF Trim, Bolted Bonnet, Full Bore.

Example: 2"- F1800

End Connection

- F = Raised Face Flanged End
- P = Plain Flate Face Flanged End
- R = Ring Type Joint End
- B = Buttweld End
- T = Threaded End
- S = Socket Weld End

Trim Material

		Seat	DISC	Stern
1	=	13CR	13CR	F6
2	=	HF	HF	F6
3	=	HF	13CR	F6
4	=	MONEL	MONEL	MONEL
5	=	316SS	316SS	F316
6	=	HF	MONEL	MONEL
7	=	HF	316SS	F316
8	=	304SS	304SS	F304
9	=	304L	304L	304L
0	=	316L	316L	316L
Α	=	F51	F51	F51

B = Inconel 625

X = Special

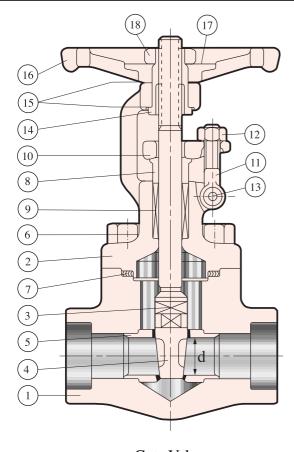
Bonnet Connection

- 1 = Bolted Bonnet Full Bore
- 2 = Welded Bonnet Full Bore
- 3 = Bolted Bonnet Reduced Bore
- 4 = Welded Bonnet Reduced Bore



Forged Steel Gate Valves

Stand	dard Material Sp	ecificat	ions								
						AS	TM Specifica	tions			
Part	Part Name	Carbo	n Steel	Alloy Steel			Stainless Steel				
No.	T art Harrie	A 105	A350				A1	82			
		(b, c)	LF2	F5	F11(d)	F22	F304 (e)	F304L	F316(e)	F316L	F51
1	Body	A 105	LF2	F5	F11	F22	F304	F304L	F316	F316L	F51
2	Bonnet	A 105	LF2	F5	F11	F22	F304	F304L	F316	F316L	F51
3	Stem		A276	- 410			A276 - 304	A276 - 304L	A276 - 316	A276 - 316L	F51
4	Disc		A276	- 420			304 + STL	304L + STL	316 + STL	316L + STL	F51
5	Seat Ring		A276 - 4	·10 + S	TL		304 + STL	304L + STL	316 + STL	316L + STL	F51
6	Bonnet Bolt (a)	A193 - B7	A320 - L7	-	4193 - B1	6	A193	3 - B8		A193 - B8M	
7	Gasket		304 + 0	Graphite	Э		316 + Graphite				
8	Gland		A276	- 410			A276 - 304 A276 -			- 316	F51
9	Packing		Flexible	Graphi	te		PTFE				
10	Gland Flange	A105	LF2		F11		CF8 F				F51
11	Gland Bolt	A193-B7	A320-L7	1	4193 - B1	6		Α	193 - B8 / B8	М	
12	Gland Bolt Nut	A194-2H	A194-7		A194 - 4				A194 - 8		
13	Gland Bolt Pin		A276	- 410					A276 - 304		F51
14	Sleeve						A276 - 410				
15	Sleeve Washer						A276 - 410				
16	Handwheel						A197		·	·	
17	Nameplate		Alumi	num					304		
18	Handwheel Nut						A108 - 1020				



Gate Valve

Notes:

- a. Temperature limitations on bolting are as following: Gr B7,1000°F(538°C); Gr L7,1000°F(538°C); Gr B16,1100°F(595°C); Gr B8-CL1,1500°F(816°C); Gr B8M-CL1,1500°F(816°C); Gr B8-CL2,1000°F(538°C); and Gr B8M-CL2,1000°F(538°C).
- b. Upon prolonged exposure to temperatures above 800°F(425°C), the carbide phase of carbon steel may be converted to graphite.
- c. Only killed steel shall be used above 850°F(455°C).
- d. Use normalized and tempered material only.
- e. At temperatures over 1000°F(538°C), use only when the carbon is 0.04 percent or higher.



Class 150 / 300 / 600 Forged Steel Gate Valves

Features:

• Bolted Bonnet (B.B) or Welded Bonnet (W.B).

 Spiral Wound Gasket of Stainless Steel and Flexible Graphite with Controlled Compression.

• Flanged End.

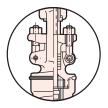
• Compact Outside Screw & Yoke or Compact Inside Screw.

• Renewable Hardfaced Seats.

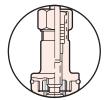
Specifications:

Basic Design: API-602 & ANSI B16.34

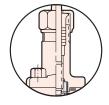
Face to Face: ANSI B16.10
Flanged End: ANSI B16.5
Test and Inspect: API-598
Standard Material: See Page 3







Inside Screw W.B



Inside Screw B.B

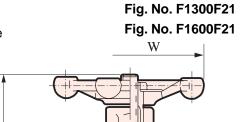
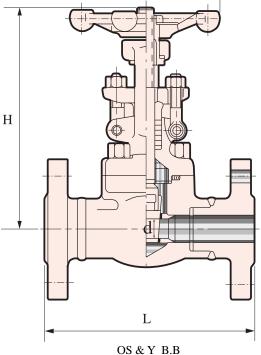


Fig. No. F1150F21



Dimensions and Weights												
Dimensior	ns and Weight	s										
N	IPS	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″				
	d	inch	0.39	0.51	0.71	0.94	1.14	1.46				
	u	mm	10	13	18	24	29	37				
	CLASS 150	inch	4.25	4.62	5.00	5.50	6.50	8.00				
	OLAGO 130	mm	108	117	127	140	165	203				
L	CLASS 300	inch	5.5	6.0	6.5	7.0	7.5	8.5				
_	OLAGO 300	mm	140	152	165	178	190	216				
	CLASS 600	inch	6.5	7.5	8.5	9.0	9.5	11.5				
	OLAGO 000	mm	165	190	216	0.94 1.14 1.46 24 29 37 5.50 6.50 8.00 140 165 203 7.0 7.5 8.5 178 190 216 9.0 9.5 11.5 229 241 292 9.30 9.70 11.10 236 246 283	292					
	CLASS 150	inch	6.20	6.70	7.80	9.30	9.70	11.10				
H (OPEN)	CLASS 300	mm	158	169	197	236	246	283				
H (OPEN)	CLASS 600	inch	6.70	7.80	9.30	9.70	11.10	12.60				
	CLASS 600	mm	169	197	236	246	283	320				
	W	inch	3.94	3.94	4.92	6.30	6.30	7.10				
	**	mm	100	100	125	160	160	180				
	CLASS 150	lb	9.9	11.4	19.8	253	27.5	44.7				
	OLAGO 130	kg	4.5	5.2	8.2	11.5	12.5	20.3				
WEIGHT	CLASS 300	lb	10.6	13.7	20.5	30.8	34.1	51.5				
***	OLAGO 300	kg	4.8	6.2	9.3	14.0	15.5	23.4				
	CLASS 600	lb	13.0	16.3	22.9	35.6	38.5	62.3				
	OLA33 000	kg	5.9	7.4	10.4	16.2	17.5	28.3				



Class 800 Forged Steel Gate Valves

Features:

• Bolted Bonnet (B.B) or Welded Bonnet (W.B).

 Spiral Wound Gasket of Stainless Steel and Flexible Graphite with Controlled Compression.

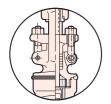
- Reduced or Full Port.
- Compact Outside Screw & Yoke or Compact Inside Screw.
- Renewable Hardfaced Seats.
- Socket Weld (S.W) or Threaded End (T.E).

Specifications:

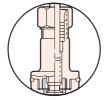
Basic Design: API-602 & ANSI B16.34

Socket Weld End(S.W): ANSI B16.11
 Threaded End (T.E): ANSI B1.20.1

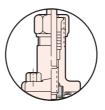
Test and Inspect: API-598Standard Material: See Page 3



OS & Y W.B

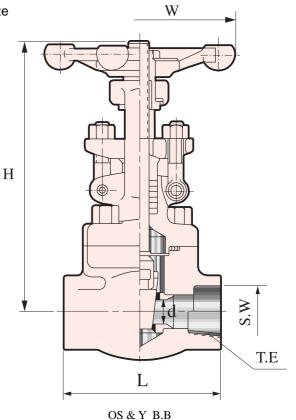


Inside Screw W.B



Inside Screw B.B

Fig. No. F1800T21 Fig. No. F1800S21



Dimension	ns and Weights	;									
Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″	2 1/2″	3″
Diameter	Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″	-
	۵	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46	1.81	2.00
	d		7	10	13	18	24	29	37	46	51
		inch	3.12	3.12	3.62	4.37	4.75	4.75	5.50	7.00	7.28
	L	mm	79	79	92	111	120	120	140	178	185
	Outside Screw	inch	6.22	6.22	6.70	7.76	9.30	9.68	11.14	12.99	14.13
LI (ODENI)	& Yoke	mm	158	158	169	197	236	246	283	330	359
H (OPEN)	Inside Screw	inch	6.65	6.65	7.20	8.19	10.60	11.42	12.99	-	-
		mm	169	169	182	208	254	290	330		-
V		inch	3.93	3.93	3.90	4.92	6.29	6.29	7.08	7.87	7.87
V		mm	100	100	100	125	160	160	180	200	200
	D D	lb	4.84	4.62	5.06	8.80	13.00	15.20	24.60	34.76	44.00
VA/a : orla t	B.B	kg	2.2	2.1	2.3	4.0	5.9	6.9	11.2	15.8	20.0
Weight	W D	lb	3.96	3.74	4.62	8.14	11.44	13.64	22.88	32.56	-
	W.B	kg	1.8	1.7	2.1	3.7	5.2	6.2	10.4	14.8	-



Class 1500 Forged Steel Gate Valves

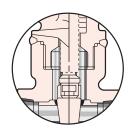
Features:

- Bolted Bonnet (B.B) or Welded Bonnet (W.B).
- Spiral Wound Gasket of Stainless Steel and Flexible Graphite with Controlled Compression.
- Reduced or Full Port.
- Compact Outside Screw & Yoke or Compact Inside Screw.
- Renewable Hardfaced Seats.
- Socket Weld (S.W) or Threaded End (T.E).

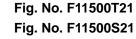
Specifications:

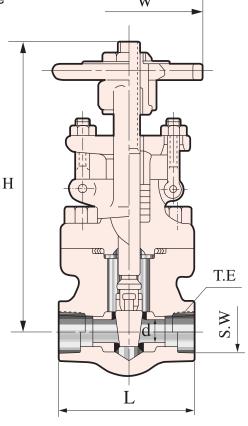
Basic Design: API-602 & ANSI B16.34

Socket Weld End (S.W): ANSI B16.11
 Threaded End (T.E): ANSI B1.20.1
 Test and Inspect: API-598
 Standard Material: See Page 3



OS & Y W.B





OS & Y B.B

Dimension	Dimensions and Weights											
Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″			
Diameter	Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″			
		inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46			
d		mm	7	10	13	18	24	29	37			
		inch	3.62	4.37	4.37	4.72	4.75	5.5	7.0			
	L	mm	92	111	111	120	120	140	178			
	DEN)	inch	6.65	7.75	7.75	9.30	9.69	11.14	13.00			
н (О	PEN)	mm	169	197	197	236	246	283	330			
	N/	inch	3.94	4.92	4.92	6.30	6.30	7.09	7.87			
V	V	mm	100	125	125	160	160	180	200			
	D.D.	lb	10.34	10.12	10.12	13.86	19.14	26.60	37.80			
\A/a:abt	B.B	kg	4.7	4.6	4.6	6.3	8.7	12.2	17.2			
Weight	W D	lb	8.80	8.56	8.56	12.76	17.66	24.64	35.20			
	W.B	kg	4.0	3.9	3.9	5.8	7.8	11.2	16.0			



Class 2500 Forged Steel Gate Valves

Features:

- Welded Bonnet (W.B).
- Compact Outside Screw & Yoke.
- Socket Weld (S.W), Threaded End (T.E), or Butt-Weld End (B.W).
- Renewable Hardfaced Seats.

Specifications:

Basic Design:

Socket Weld End (S.W):
ANSI B16.34

Threaded End (S.W):

ANSI B16.21

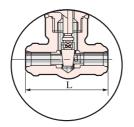
Butt Weld (B.W):

ANSI B16.25

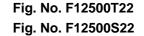
Test and Inspect:

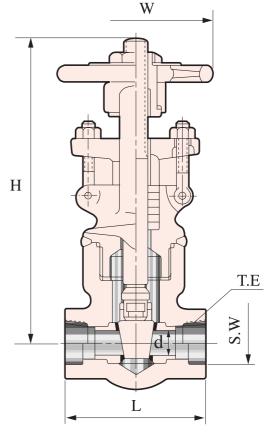
API-598

Standard Material:
See Page 3



OS & Y B.W





OS & Y S.W or T.E

Dimension	s and Weig	ghts						
Normal D	Diameter	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
		inch	0.51	0.51	0.71	0.94	1.14	1.46
d	_	mm	13	13	18	24	29	37
	S.W, T.E	inch	7.32	7.32	7.32	9.13	9.13	10.98
	3.VV, 1.E	mm	186	186	186	232	232	279
L	B.W	inch	8.5	9.0	10.0	11.0	12.0	14.5
		mm	216	229	254	279	305	368
Ц/ОВ	=NI\	inch	8.58	8.58	10.20	12.60	12.60	13.78
H(OPI	EN)	mm	218	218	259	320	320	350
\A/		inch	4.92	4.92	6.30	7.09	7.09	7.87
W		mm	125	125	160	180	180	200
	ew te	lb	15.4	15.4	30.8	49.5	50.6	61.6
Woight	S.W, T.E	kg	7	7	14	22.5	23	28
Weight	D W	lb	24.86	27.50	34.32	39.16	45.98	78.10
	B.W	kg	11.3	12.5	15.6	17.8	20.9	35.5



Class 800 Forged Steel Cryogenic Gate Valves

Features:

- Reduced or Full Port.
- Outside Screw & Yoke Long Bonnet.
- Spiral Wound Gasket of Stainless Steel.
- Socket Weld (S.W) or Threaded End (T.E).
- Renewable Hardfaced Seats.
- Balancing Hole in Wedge.

Specifications:

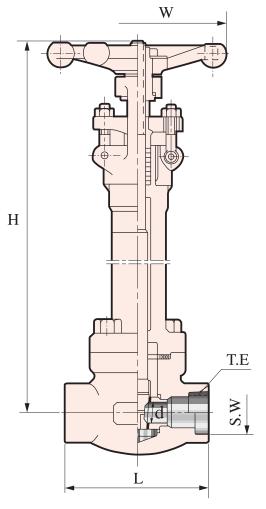
Basic Design: API-602 & ANSI B16.34

Socket Weld End (S.W): ANSI B16.11Threaded End (T.E): ANSI B1.20.1

• Test and Inspect: API-598

• Standard Material: LF2, F304(L) F316(L)





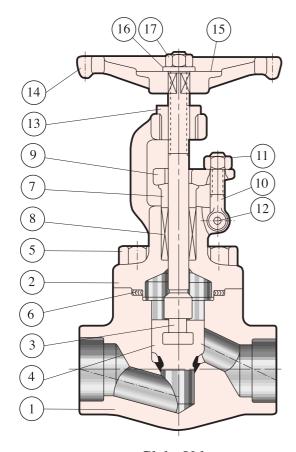
OS & Y S.W or T.E

Dimensio	ns and Weight	s							
Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
Diameter	Full Port	inch	1/4″	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″
	4	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46
	d		7	10	13	18	24	29	37
			3.12	3.62	4.37	4.72	4.72	5.51	7.00
	L	mm	79	92	111	120	120	140	178
ш /	ODENI)	inch	13.00	13.11	14.17	16.02	18.70	18.70	21.69
п (OPEN)	mm	330	333	360	407	475	475	551
	\ \\	inch	3.94	3.94	4.92	6.30	6.30	7.09	7.87
	W		100	100	125	160	160	180	200
W	Weight		11.44	15.64	20.70	29.74	33.04	39.21	61.60
	0.9	kg	5.2	7.1	9.4	13.5	15.0	17.8	28.0



Forged Steel Globe Valves

Standard Material Specifications											
						AS	TM Specifica	tions			
Part	Part Name	Carbo	n Steel	F	Alloy Ste	el	Stainless Steel				
No.	rait Name	A 105	A350				A1	82			
		(b, c)	LF2	F5	F11(d)	F22	F304 (e)	F304L	F316(e)	F316L	F51
1	Body	A 105	A 105 LF2 F5 F11 F22 F304 F304L F316						F316	F316L	F51
2	Bonnet	A 105	A 105 LF2 F5 F11 F22 F304 F304L F316 F3						F316L	F51	
3	Stem		A276	- 410			A276 - 304	A276 - 304L	A276 - 316	A276 - 316L	F51
4	Disc		A276	- 420			304 + STL	304L + STL	316 + STL	316L + STL	F51
5	Bonnet Bolt (a)	A193 - B7	A320 - L7	P	4193 - B1	6	A193	3 - B8		A193 - B8M	
6	Gasket		304 + (Graphite	Э				316 + Graphite	Э	
7	Gland		A276	5 - 410						- 316	F51
8	Packing		Flexible	Graphite			PTFE				
9	Gland Flange	A105	LF2		F11				CF8		F51
10	Gland Bolt	A193-B7	A320-L7	A	4193 - B1	6		A	193 - B8 / B8	M	
11	Gland Bolt Nut	A194-2H	A194-7		A194 - 4				A194 - 8		
12	Gland Bolt Pin		A276	- 410					A276 - 304		F51
13	Sleeve						A276 - 410				
14	Handwheel						A197				
15	Nameplate		Alumii	num					304		
16	Handwheel Washer						A108 - 1020				
17	Handwheel Nut						A194 - 2H				



Globe Valve

Notes:

- a. Temperature limitations on bolting are as following: Gr B7,1000°F(538°C); Gr L7,1000°F(538°C); Gr B16,1100°F(595°C); Gr B8-CL1,1500°F(816°C); Gr B8M-CL1,1500°F(816°C); Gr B8-CL2,1000°F(538°C); and Gr B8M-CL2,1000°F(538°C).
- b. Upon prolonged exposure to temperatures above 800°F(425°C), the carbide phase of carbon steel may be converted to graphite.
- c. Only killed steel shall be used above 850°F(455°C).
- d. Use normalized and tempered material only.
- e. At temperatures over 1000°F(538°C), use only when the carbon is 0.04 percent or higher.



Class 150 / 300 / 600 Forged Steel Globe Valves

Features:

• Bolted Bonnet (B.B) or Welded Bonnet (W.B).

• Spiral Wound Gasket of Stainless Steel.

• Integral Stellited Seat.

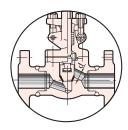
• Flanged End.

• Compact Outside Screw & Yoke.

Specifications:

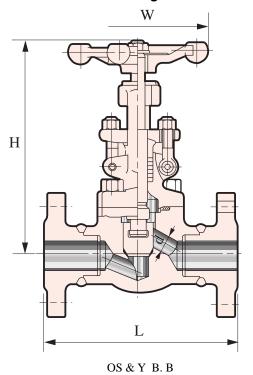
Basic Design: API-602 & ANSI B16.34

Face to Face: ANSI B16.10
Flanged End: ANSI B16.5
Test and Inspect: API-598
Standard Material: See Page 9



OS & Y W. B

Fig. No. F2150F33 Fig. No. F2300F33 Fig. No. F2600F33



Dimensio	ons and Weigl	hts						
Norma	I Diameter	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
		inch	0.39	0.51	0.71	0.94	1.14	1.46
	a	mm	10	13	18	24	29	37
	01 400 450	inch	4.25	4.62	5.00	5.50	6.50	8.00
	CLASS 150	mm	108	117	127	140	165	203
	OL A CC 200	inch	6.0	7.0	8.0	8.5	9.0	10.5
L	CLASS 300	mm	152	178	203	216	229	267
	01.400.000	inch	6.5	7.5	8.5	9.0	9.5	11.5
	CLASS 600	mm	165	0.39 0.51 0.71 0.94 1.14 1.44 10 13 18 24 29 37 4.25 4.62 5.00 5.50 6.50 8.0 108 117 127 140 165 203 6.0 7.0 8.0 8.5 9.0 10.3 152 178 203 216 229 267 6.5 7.5 8.5 9.0 9.5 11.3 165 190 216 229 241 292 6.54 6.73 8.15 9.45 10.12 13.0 166 171 207 240 256 330 6.73 8.15 9.45 10.12 13.00 14.9 171 207 240 256 330 380 3.94 3.94 4.92 6.30 6.30 7.0 100 100 125 160 160 180 <td>292</td>	292			
	CLASS 150	inch	6.54	6.73	8.15	9.45	10.12	13.00
H (OPEN)	CLASS 300	mm	166	171	207	240	256	330
11 (01 211)	OL A CC COO	inch	6.73	8.15	9.45	10.12	13.00	14.96
	CLASS 600	mm	171	207	240	256	330	380
	CLASS 150	3.94	3.94	4.92	6.30	6.30	7.09	
,	vv	mm	100	100	125	160	160	180
	CL ACC 450	lb	7.94	11.02	14.55	21.60	26.45	33.07
	CLASS 150	kg	3.6	5.0	6.6	9.8	12.0	15.0
WEIGHT	CL A CC 202	lb	8.82	11.46	16.53	24.91	36.37	40.12
WEIGHT	CLASS 300	kg	4.0	5.2	7.5	11.3	16.5	18.2
	CLASS CCC	lb	12.34	15.21	21.6	27.55	40.56	44.09
WEIGHT	CLASS 600	kg	5.6	6.9	9.8	12.5	18.4	20.0



Class 800 Forged Steel Globe Valves

Features:

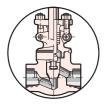
- Bolted Bonnet (B.B) or Welded Bonnet (W,B).
- Spiral Wound Gasket of Stainless Steel.
- Socket Weld (S.W) or Threaded End (T.E).
- Compact Outside Screw & Yoke or Compact Inside Screw.
- Integral Stellited Seat.

Specifications:

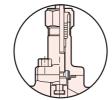
Basic Design: API-602 & ANSI B16.34

Socket Weld End (S.W): ANSI B16.11
 Threaded End (T.E): ANSI B1.20.1
 Test and Inspect: API-598

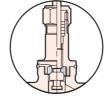
• Standard Material: See Page 9



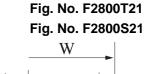


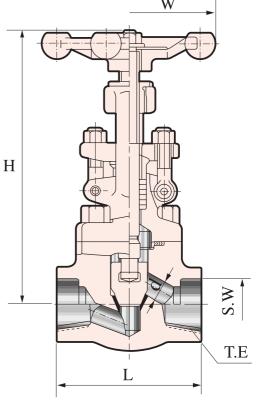


Inside Screw B.B



Inside Screw W.B





OS	g_{τ}	\mathbf{v}	B.B
U.S	α	1	D.D

Dimensio	ns and Weight	s								
Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″	-
Diameter	Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
	. 1	inch	0.39	0.39	0.51	0.71	0.94	1.14	1.46	1.81
	d	mm	10	10	13	18	24	29	37	46
		inch	3.12	3.12	3.62	4.37	4.72	5.98	6.77	7.87
ı	mm	79	79	92	111	120	152	172	200	
	Outside Screw	inch	6.54	6.54	6.73	8.15	9.45	10.12	13.00	13.98
H (ODENI)	& Yoke	mm	166	166	171	207	240	258	330	355
H (OPEN)	Incide Covery	inch	6.18	6.18	6.40	7.68	10.51	10.51	11.85	-
	Inside Screw	mm	157	157	162	195	267	267	301	-
V	V	inch	3.94	3.94	3.94	4.92	6.30	6.30	7.09	7.87
V	V	mm	100	100	100	125	160	160	180	200
	B.B	lb	4.62	4.18	4.62	8.58	12.76	15.80	23.80	35.20
Weight	D. D	kg	2.1	1.9	2.1	3.9	5.8	7.2	10.8	16.0
	W.B	lb	3.96	3.74	4.62	8.14	11.44	13.64	22.88	32.56
	VV.D	kg	1.8	1.7	2.1	3.7	5.2	6.2	10.4	14.8



Class 1500 Forged Steel Globe Valves

Features:

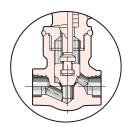
- Bolted Bonnet (B.B) or Welded Bonnet (W.B).
- Spiral Wound Gasket of Stainless Steel.
- Socket Weld (S.W) or Threaded End (T.E).
- Reduced or Full Port.
- Compact Outside Screw & Yoke or Compact Inside Screw.
- Integral Stellited Seat.

Specifications:

Basic Design:
 API-602 & ANSI B16.34

Socket Weld End (S.W): ANSI B16.11
 Threaded End (T.E): ANSI B1.20.1
 Test and Inspect: API-598

• Standard Material: See Page 9



OS & Y W.B

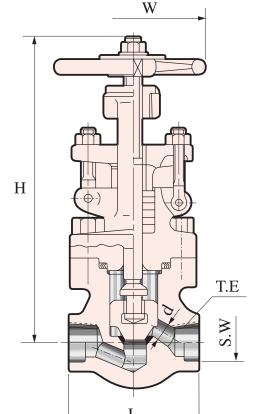


Fig. No. F21500T23

Fig. No. F21500S23

OS & Y B.B

Dimensions and Weights												
Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″			
Diameter	Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″			
	al .	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46			
	d	mm	7	10	13	18	24	29	37			
	1	inch	3.62	4.37	4.37	4.72	5.98	6.80	7.87			
	L	mm	92	111	111	120	152	172	200			
ц /с	DDENI)	inch	6.73	8.15	8.15	9.45	10.16	13.00	13.98			
п (С	OPEN)	mm	171	207	207	240	258	330	355			
	W	inch	3.94	4.92	4.92	6.30	6.30	7.09	7.87			
	VV	mm	100	125	125	160	160	180	200			
	D D	lb	10.78	10.34	10.12	14.96	20.24	29.90	45.98			
\Majaht	B.B		4.9	4.7	4.6	6.8	9.2	13.6	20.9			
Weight	W D	lb	9.46	9.02	8.80	13.64	18.92	27.94	42.02			
	W.B	kg	4.3	4.1	4.0	6.2	8.6	12.7	19.1			

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DHV Industries, Inc.



Class 2500 Forged Steel Globe Valves

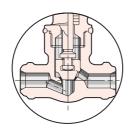
Features:

- Welded Bonnet (W.B).
- Compact Outside Screw & Yoke.
- Socket Weld (S.W), Threaded End (T.E), or Butt Weld End (B.W).
- Integral Stellited Seat.

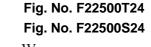
Specifications:

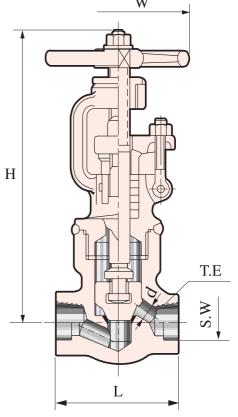
Basic Design: ANSI B16.34
Socket Weld (S.W): ANSI B16.11
Threaded End (T.E): ANSI B1.20.1
Butt Weld (B.W): ANSI B16.25

Test and Inspect: API-598
 Standard Material: See Page 9



OS & Y B.W





OS & Y T.E or S.W

Dimensi	ons and W	eights						
Norma	l Diameter	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
		inch	0.39	0.51	0.71	0.94	1.14	1.46
•	-	mm	10	13	18	24	29	37
	CW TE	inch	7.32	7.32	7.32	9.13	9.13	10.98
	S.W, T.E	mm	186	186	186	232	232	279
L	D W	inch	8.50	9.02	10.00	10.98	12.00	14.20
	B.W		216	229	254	279	305	368
Ц (О	DENI)	inch	8.94	8.94	11.34	13.00	13.00	14.17
п(О	PEN)	mm	227	227	288	330	330	360
	V	inch	6.30	6.30	6.30	7.87	7.87	8.66
v	·	mm	160	160	160	200	200	220
	D D	lb	17.6	17.6	37.4	55.0	57.2	74.8
\A/a:a:la4	B.B	kg	8	8	17	25	26	34
Weight	W B	lb	29.4	28.6	44.0	70.4	77.0	88.0
	W.B	kg	12	13	20	32	35	40



Class 800 1500 Forged Steel Y-Pattern Globe Valves

Features:

• Welded Bonnet (W.B) or Bolted Bonnet (B.B).

• Compact Outside Screw & Yoke.

• Socket Weld (S.W) or Threaded End (T.E).

• Integral Stellited Seat.

Fig. No. F3800T21

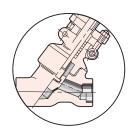
Fig. No. F3800S21

Fig. No. F31500T21

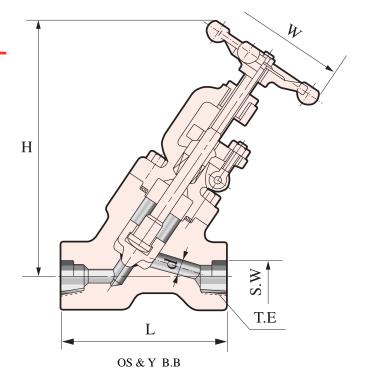
Fig. No. F31500S21

Specifications:

Basic Design: ANSI B16.34
Socket Weld End (S.W): ANSI B16.11
Threaded End (T.E): ANSI B1.20.1
Test and Inspect: API-598
Standard Material: See Page 9



OS & Y W.B



Dimens	sions	and Weight	s						
Nor	mal Di	iameter	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
		Class 800	inch	0.51	0.71	0.94	1.14	1.46	1.81
		Class 600	mm	13	18	24	29	37	46
d		Class 1500	inch	0.51	0.51	0.75	11.02	11.02	1.49
		Class 1500	mm	13	13	19	28	28	38
		Class 800	inch	3.86	4.37	4.72	5.51	5.51	6.69
		01033 000	mm	98	111	120	140	140	170
L	Class 1500		inch	5.51	5.51	5.51	7.00	7.00	8.50
	Class 1500		mm	140	140	140	178	178	216
	Class 800		inch	6.89	8.46	10.00	12.00	12.00	14.37
II (ODI		01033 000	mm	175	215	254	305	305	365
H (OPI	=N)	Class 1500	inch	6.69	7.68	9.25	10.94	10.94	12.20
		Class 1500	mm	170	195	235	278	278	310
		Class 800	inch	3.94	4.92	6.30	6.30	7.09	7.87
		01033 000	mm	100	125	160	160	180	200
W		Class 1500	inch	3.94	4.92	6.30	7.09	7.09	7.87
		01033 1000	mm	100	125	160	180	180	200
	в.в	Class 800	lb	10.12	10.12	16.72	21.56	30.14	30.80
	B.B Class 800		kg	4.6	4.6	7.6	9.8	13.7	14.0
Weight	Weight W.B	Class 800	lb	7.70	8.36	14.52	18.70	24.86	27.50
Height		Class 800	kg	3.5	3.8	6.5	8.5	11.30	12.5
		Class 1500	lb	9.90	13.42	16.72	21.56	31.90	45.76
	Class 1500		kg	4.5	6.1	7.6	9.8	14.5	20.8

14



Class 150 / 300 / 600 Forged Steel Needle Globe Valves

Features:

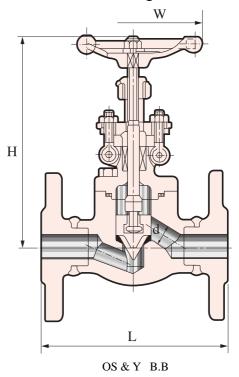
- Bolted Bonnet (B.B).
- Reduced Port.
- Spiral Wound Gasket of Stainless Steel.
- Flanged End.
- Compact Outside Screw & Yoke.
- Needle Point Flow Control.
- Integral Stellited Seat.

Specifications:

Basic Design: API-602 & ANSI B16.34

Face to Face: ANSI B16.10
Flanged End: ANSI B16.5
Test and Inspect: API-598
Standard Material: See Page 9

Fig. No. F8150F23 Fig. No. F8300F23 Fig. No. F8600F23



Dimensio	Dimensions and Weights											
Norma	l Diameter	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″				
	_1	inch	0.39	0.51	0.71	0.94	1.14	1.46				
	d	mm	10	13	18	24	29	37				
	CL ASS 450	inch	4.25	4.62	5.00	5.51	6.50	8.00				
	CLASS 150	mm	108	117	127	140	165	203				
	CLASS 200	inch	6.0	7.0	8.0	8.5	9.0	10.5				
L	CLASS 300	mm	152	178	203	216	229	267				
	CLASS 600	inch	6.5	7.5	8.5	9.0	9.5	11.5				
	CLASS 600	mm	165	190	216	229	241	292				
	NDENI)	inch	6.93	6.93	8.35	9.06	10.00	11.57				
п (С	PEN)	mm	176	176	212	230	254	294				
	w	inch	3.94	3.94	4.92	6.30	6.30	7.09				
	vv	mm	100	100	125	160	160	180				
	CL ACC 450	lb	7.92	11.00	14.52	21.56	26.40	33.00				
	CLASS 150	kg	3.6	5.0	6.6	9.8	12.0	15.0				
WEICHT	CL ASS 200	lb	8.80	11.44	16.50	24.86	36.30	40.04				
WEIGHT	CLASS 300	kg	4.0	5.2	7.5	11.3	16.5	18.2				
	OL A CC COO	lb	12.32	15.18	21.56	27.50	40.48	44.00				
	CLASS 600	kg	5.6	6.9	9.8	12.5	18.4	20.0				



Class 800 / 1500 Forged Steel Needle Globe Valves

Features:

• Bolted Bonnet (B.B).

• Reduced Port.

- Spiral Wound Gasket of Stainless Steel.
- Compact Outside Screw & Yoke.
- Needle Point Flow Control.
- Integral Stellited Seat.
- Socket Weld (S.W) or Threaded End (T.E).

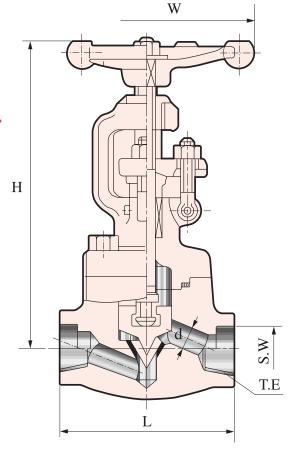
Specifications:

Basic Design: API-602 & ANSI B16.34

Socket Weld End (S.W): ANSI B16.11Threaded End (T.E): ANSI B1.20.1

Test and Inspect: API-598Standard Material: See Page 9

Fig. No. F8800S23 Fig. No. F81500S23



OS & Y T.E or S.W

Dimensions and Weigh	ts								
Normal Diameter	inch	1/4″	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
	inch	0.28	0.39	0.39	0.51	0.71	0.94	1.14	1.46
d	mm	7	10	10	13	18	24	29	37
	inch	3.11	3.11	3.11	3.62	4.37	4.72	5.98	6.77
L	mm	79	79	79	92	111	120	152	172
H (ODENI)	inch	6.93	6.93	6.93	6.93	8.35	9.06	10.00	11.57
H (OPEN)	mm	176	176	176	176	212	230	254	294
10/	inch	3.94	3.94	3.94	3.94	4.92	6.30	6.30	7.09
W	mm	100	100	100	100	125	160	160	180
Weight	lb	5.06	4.84	4.40	4.62	9.24	13.42	16.5	24.64
giit	kg	2.3	2.2	2.0	2.1	4.2	6.1	7.5	11.2



Class 800 Forged Steel Cryogenic Globe Valves

Features:

- Reduced or Full Port.
- Outside Screw & Yoke, Long Bonnet.
- Spiral Wound Gasket of Stainless Steel.
- Socket Weld (S.W) or Threaded End (T.E).
- Integral Stellited Seat.

Specifications:

• Test and Inspect:

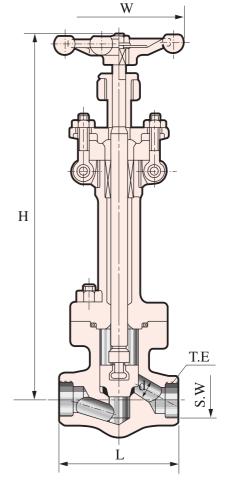
Basic Design:
 API-602 & ANSI B16.34

• Socket Weld End (S.W): ANSI B16.11
• Threaded End (T.E): ANSI B1.20.1

• Standard Material: LF2 F304(L) F316(L)

API-598





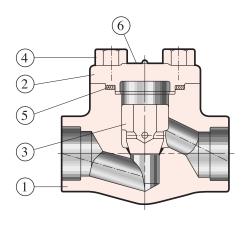
OS & Y B.B

Dimensio	Dimensions and Weights												
Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″				
Diameter	Full Port	inch	1/4″	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″				
	۵	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46				
	d	mm	7	10	13	18	24	29	37				
	L		3.12	3.62	4.37	4.72	4.72	6.77	7.87				
	L	mm	79	92	111	120	120	172	200				
ш.//	ODEN)	inch	13.11	13.26	14.57	14.96	16.41	18.66	21.50				
п(OPEN)	mm	333	337	370	380	410	474	546				
	14/	inch	3.94	3.94	4.92	6.30	6.30	7.09	7.87				
	W		100	100	125	160	160	180	200				
Weight		lb	14.52	14.08	15.84	20.90	29.70	37.40	43.56				
		kg	6.6	6.4	7.2	9.5	13.5	17.0	19.8				



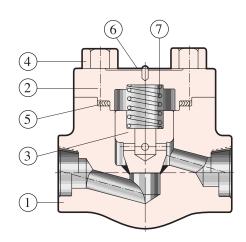
Forged Steel Check Valves

Sta	andard Materi	al Spec	ificatio	ons		Piston Check & Lift Check with Spring Valve					
					AS	ΓM S	pecificat	ions			
Part	Part Name	Carbon	Steel	Α	Iloy Ste	teel Stainless Steel					
No.	r art ramo	A 105	A350				A1	82			
		(b, c)	LF2	F5	F11(d)	F22	F304(e)	F304L	F316(e)	F316L	F51
1	Body	A 105	LF2	F5	F11	F22	F304	F304L	F316	F316L	F51
2	Cover	A 105	A 105 LF2 F5 F11 F22					F304L	F316	F316L	F51
3	Disc		Α2	76 - 4	.20	304+ 304L+ 316+ 316L+					
	2.00		7 (2	, ,	20		STL	STL	STL	STL	F51
4	Cover Bolt	A193-	A320-	Δ	193 - B1	16	Δ19:	3 - B8	A193 ·	- B8M	-
	(a)	В7	L7	, ,	100 D		/(13	0 00	71130	DOW	
5	Gasket		304 + Graphite 316 + Graphite								
6	Nameplate		Α	lumin	um			3	304		
7	Spring		Stainless Steel								



Piston Check Valve

Sta	andard Material Specifications Swing Check Valve											
					AS	ΓM S _I	pecificat	ions				
Part	Part Name	Carbor	Steel	P	Alloy Ste	el		Stainl	ess Steel			
No.	i ait itailio	A 105	A350				A182					
		(b, c)	LF2	F5	F11(d)	F22	F304(e)	F304L	F316(e)	F316L	F51	
1	Body	A 105	LF2	F5	F11	F22	F304	F304L	F316	F316L	F51	
2	Cover	A 105	LF2	F5	F11	F22	F304	F304L	F316	F316L	F51	
3	Disc		A2 ⁻	76 - 4	20		304+	304L+	316+	316L+	F51	
	2.00		, -				STL	STL	STL	STL		
4	Seat Ring		A276	-410	+ STL		304+	304L+	316+	316L+	F51	
	oout rung		71270		. 0.2		STL	STL	STL	STL		
5	Retaining Nut		A1	94 - 2	2H		A194 - B8					
6	Hing		A27	6 - C	440			A351	- CF8M			
7	Hing Pin		A2 ⁻	76 - 4	10			A27	6 - 304			
8	Supporter		A2 ⁻	76 - 3	804		A276 -	304	A27	76 - 316		
9	Cover Bolt	A193-	A320-	l A	.193 - B ²	16	A19:	3 - B8	A19	3 - B8M	I	
	(a)	B7	L7				71100 B0 71100 B0W				-	
10	Gasket	304 + Graphite					316 + Graphite					
11	Nameplate	·	Αlι	uminu	ım		304					



Lift Check with Spring Valve

(3)Gr B8-CL2,1000°F(538°C); and Gr B8M-CL2,1000°F(538°C).

Swing Check Valve

Notes:

- a. Temperature limitations on bolting are as following: Gr B7,1000°F(538°C); Gr L7,1000°F(538°C); Gr B16,1100°F(595°C); Gr B8-CL1,1500°F(816°C); Gr B8M-CL1,1500°F(816°C);
- b. Upon prolonged exposure to temperatures above 800°F(425°C), the carbide phase of carbon steel may be converted to graphite.
- c. Only killed steel shall be used above $850^{\circ}F(455^{\circ}C)$.
- d. Use normalized and tempered material only.
- e. At temperatures over $1000^{\circ}F(538^{\circ}C)$, use only when the carbon is 0.04 percent or higher.



Class 150 / 300 / 600 Forged Steel Check Valves

Features:

• Bolted Bonnet (B.B).

• Spiral Wound Gasket of Stainless Steel.

• Integral or Renewable Hardfaced Seat.

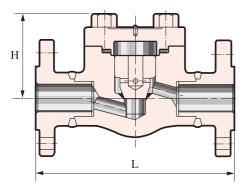
• Flanged End.

• Piston or Swing Check Valve.

Specifications:

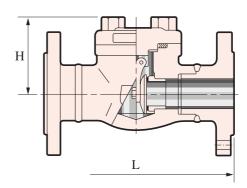
Basic Design: API-602 & ANSI B16.34

Face to Face: ANSI B16.10
 Flanged End: ANSI B16.5
 Test and Inspect: API-598
 Standard Material: See Page 18



Piston Check Valve

Fig. No. F4150F21 Fig. No. F6150F21 Fig. No. F4300F21 Fig. No. F6300F21 Fig. No. F6600F21



Swing Check Valve

Dimensio	Dimensions and Weights												
Normal	Diameter	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″					
	1	inch	0.51	0.71	0.94	1.14	1.46	1.81					
`	4	mm	13	18	24	29	37	46					
	CLASS 150	inch	4.25	4.62	5.00	5.50	6.50	8.00					
	CLASS 150	mm	108	117	127	140	165	203					
ı	CLASS 300	inch	6.0	7.0	8.0	8.5	9.0	10.5					
L	CLASS 300	mm	152	178	203	216	229	267					
	CLASS COO	inch	6.5	7.5	8.5	9.0	9.5	11.5					
	CLASS 600	mm	165	190	216	229	241	292					
	CLASS 150	inch	2.40	2.40	3.11	3.74	4.06	4.65					
н	CLASS 300	mm	61	61	78	95	103	118					
••	CLASS COO	inch	2.40	3.11	3.74	4.06	4.65	5.31					
	CLASS 600	mm	61	79	95	103	118	135					
	CL A CC 4 FO	lb	5.72	7.48	9.68	18.04	19.80	27.72					
	CLASS 150	kg	2.6	3.4	4.4	8.2	9.0	12.6					
WEIGHT	CL A CC 202	lb	5.94	8.14	10.34	19.36	21.12	30.14					
WEIGHT	CLASS 300	kg	2.7	3.7	4.7	8.8	9.6	13.7					
	01.400.000	lb	6.60	8.80	12.76	20.90	22.00	34.32					
	CLASS 600	kg	3.0	4.0	5.8	9.5	10.0	15.6					



Class 800 Forged Steel Check Valves

Features:

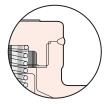
- Reduced or Full Port.
- Piston or Swing Check Valve.
- Bolted Bonnet (B.B) or Welded Bonnet (W.B).
- Spiral Wound Gasket of Stainless Steel.
- Socket Weld (S.W) or Threaded End (T.E).
- Renewable or Integral Hardfaced Seat.

Specifications:

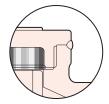
Basic Design: API-602 & ANSI B16.34

Socket Weld End (S.W): ANSI B16.11
Threaded End (T.E): ANSI B1.20.1
Test and Inspect: API-598
Standard Material: See Page 18

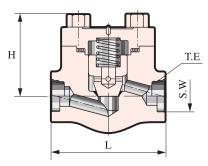
Fig. No. F4800T21 Fig. No. F6800T21 Fig. No. F5800T21 Fig. No. F5800S21 Fig. No. F5800S21



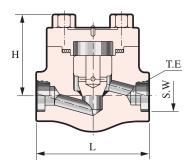
Lift Check with Spring Valve W.B



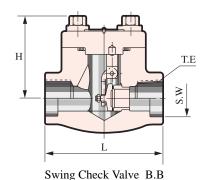
Piston Check Valve W.B



Lift Check with Sping Valve B.B



Piston Check Valve B.B



Dimensions and Weights

Piston Check Valve

Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
Diameter	Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″
	d	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46
	ď	mm	7	10	13	18	24	29	37
	1	inch	3.12	3.12	3.62	4.37	4.72	5.98	6.8
	_	mm	79	79	92	111	120	152	172
	Н	inch	2.40	2.40	2.56	3.11	3.74	4.06	4.56
	••	mm	61	61	65	79	95	103	118
w	/eight	lb	3.08	2.64	3.08	5.06	8.58	12.3	19.6
		kg	1.4	1.2	1.4	2.3	3.9	5.6	8.9

Swing Check Valve

Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
Diameter	Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4"	1 1/2″
	d	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46
	u .	mm	7	10	13	18	24	29	37
	ı	inch	3.12	3.12	3.62	4.37	4.72	4.72	5.51
	_	mm	79	79	92	111	120	120	140
	Н	inch	2.40	2.40	3.07	3.31	3.98	4.72	5.24
	••	mm	61	61	78	84	101	120	133
V	/eight	lb	2.64	2.20	2.42	4.18	7.48	9.90	16.06
	TOISTIC	kg	1.2	1.0	1.1	1.9	3.4	4.5	7.3



Class 1500 Forged Steel Check Valves

Features:

- Reduced or Full Port.
- Lift, Piston or Swing Check Valve.
- Bolted Bonnet (B.B) or Welded Bonnet (W.B).
- Spiral Wound Gasket of Stainless Steel.
- Socket Weld (S.W) or Threaded End (T.E).
- Renewable or Integral Hardfaced Seat.

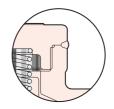
Specifications:

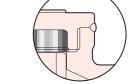
Basic Design: API-602 & ANSI B16.34

Socket Weld End (S.W):
Threaded End (T.E):
Test and Inspect:
Standard Material:

ANSI B16.11
ANSI B1.20.1
API-598
See Page 18

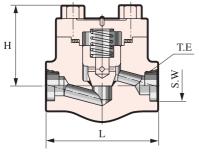
Fig. No. F41500T21 Fig. No. F41500S21 Fig. No. F51500T21 Fig. No. F51500S21 Fig. No. F61500T21 Fig. No. F61500S21



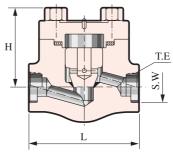


Lift Check with Sping Valve W.B

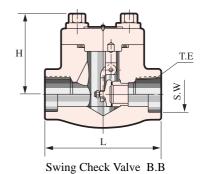
Pistoan Check Valve W.B



Lift Check with Sping Valve B.B



Piston Check Valve B.B



Dimensions and Weights

Piston Check / Lift Check Valve

Normal	Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
Diameter	Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″
	d	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46
	u	mm	7	10	13	18	24	29	37
	1	inch	3.62	4.37	4.37	4.72	5.98	6.77	7.87
	_	mm	92	111	111	120	152	172	200
	Н	inch	2.56	3.12	3.12	3.82	4.09	4.72	5.47
	••	mm	65	79	79	97	104	120	139
v	Veight	lb	6.60	6.60	7.48	10.56	15.18	23.54	32.12
	.0.9	kg	3.0	3.0	3.4	4.8	6.9	10.7	14.6

Swing Check Valve

Normal Reduced Port	inch	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″
Diameter Full Port	inch	-	3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″
d	inch	0.28	0.39	0.51	0.71	0.94	1.14	1.46
ď	mm	7	10	13	18	24	29	37
1	inch	3.62	4.37	4.37	4.72	4.72	5.51	7.00
_	mm	92	111	111	120	120	140	178
H	inch	3.12	3.12	3.12	3.82	4.13	4.72	5.51
••	mm	79	79	79	97	105	120	140
Weight	lb	6.82	6.60	7.92	9.46	13.42	19.4	27.72
	kg	3.1	3.0	3.6	4.3	6.1	8.8	12.6



Class 2500 Forged Steel Check Valves

Features:

• Lift or Piston Check Valve.

• Welded Bonnet (W.B).

• Socket Weld (S.W) or Threaded End (T.E).

• Integral Hardface Seat.

Fig. No. F42500T22

Fig. No. F42500S22

Fig. No. F52500T22

Fig. No. F52500S22

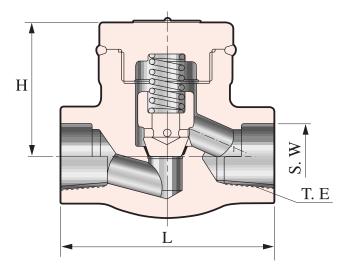
Specifications:

Basic Design: API-602 & ANSI B16.34

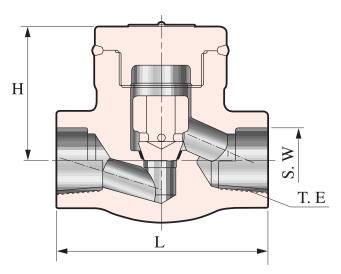
Socket Weld End (S.W): ANSI B16.11
Threaded End (T.E): ANSI B1.20.1

• Test and Inspect: API-598 or ANSI B16.34

• Standard Material: See Page 18



Lift Check With Spring Valve W.B



Piston Check Valve W.B

Dimensions and	Dimensions and Weights											
Normal Diameter	inch	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″					
d	inch	0.39	0.51	0.71	0.94	1.14	1.46					
u	mm	10	13	18	24	29	37					
L	inch	7.32	7.32	7.32	9.13	9.13	10.98					
L	mm	186	186	186	232	232	279					
Н	inch	3.12	3.90	4.33	4.33	6.69	6.69					
п	mm	79	98	110	110	170	170					
Weight	lb	14.52	25.96	38.72	37.18	47.3	46.86					
	kg	6.6	11.8	17.6	16.9	21.5	21.3					



Class 800 / 1500 Forged Steel Y-Pattern Check Valves

Features:

• Lift Check Valve.

• Welded Bonnet (W.B).

• Socket Weld (S.W) or Threaded End (T.E).

• Integral Hardfaced Seat.

Fig. No. F7800T22

Fig. No. F7800S22

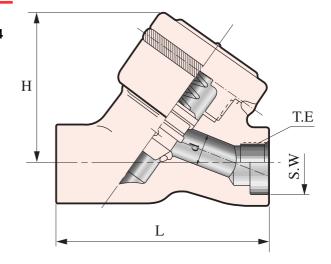
Fig. No. F71500T22

Fig. No. F71500S22

Specifications:

Basic Design: API-602 & ANSI B16.34

Socket Weld End (S.W): ANSI B16.11
 Threaded End (T.E): ANSI B1.20.1
 Test and Inspect: API-598
 Standard Material: See Page 18

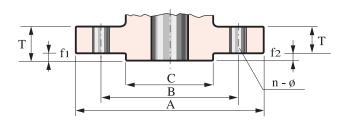


Lift Check With Spring Valve W.B

Dimension	Dimensions and Weights											
Normal	Normal Diameter		3/8″	1/2″	3/4″	1″	1 1/4″	1 1/2″	2″			
	Class 800	inch	0.39	0.51	0.71	0.94	1.14	1.46	1.81			
d	Class 600	mm	10	13	18	24	29	37	46			
u	Class 1500	inch	0.39	0.51	0.67	0.91	1.18	1.46	1.83			
	Class 1500	mm	10.0	13.0	17.0	23.0	30.0	37.0	46.5			
	Class 800	inch	3.86	3.86	4.33	4.72	5.51	1.51	6.69			
L	Class 600	mm	98	98	110	120	140	140	170			
_	Class 1500	inch	4.01	4.01	4.01	5.12	5.90	7.48	7.48			
	01833 1300	mm	102	102	102	130	150	190	190			
	Class 800	inch	3.30	3.30	3.30	4.01	4.40	4.49	5.71			
н	Class 000	mm	84	84	84	102	114	114	145			
• • • • • • • • • • • • • • • • • • • •	Class 1500	inch	3.54	3.54	3.98	4.92	5.19	5.63	7.99			
	Class 1500	mm	90	90	101	125	132	143	203			
	Class 800	lb	6.60	6.38	8.14	14.30	18.70	21.10	23.76			
Weight	C1055 000	kg	3.0	2.9	3.7	6.5	8.5	9.6	10.8			
weign	Class 1500	lb	7.04	7.04	9.02	15.84	23.10	25.5	26.3			
	C1033 1300	kg	3.2	3.2	4.1	7.2	10.5	11.6	12.0			



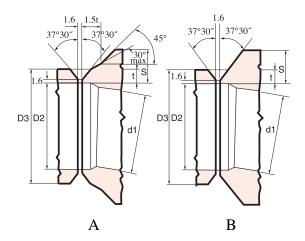
Flanged End & Buttweld End



Flanged End: ANSI B 16.5

- **f**₁. 1/16" Raised face for 150 and 300 LB (included in flange thickness)
- **f**₂. 1/4" Raised face for 600 and 1500 LB (not included in flange thickness)

Dimen	sions (ANSI	B16.5) (ANS	SI B 16	6.10)										
Class		alve ize	A		В			С		т		f	Ø		Number of Bolts	
	DN	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	n	
	15	1/2	89	3.50	60	2.38	35	1.38	11.5	0.44			16	0.62		
	20	3/4	99	3.88	70	2.75	43	1.69	13.0	0.50			16	0.62		
450	25	1	108	4.25	79	3.12	51	2.00	14.3	0.56	1.6	0.06	16	0.62	4	
150	32	1 1/4	117	4.62	89	3.50	64	2.50	15.8	0.62			16	0.62		
	40	1 1/2	127	5.00	99	3.88	73	2.88	17.5	0.69			16	0.62		
	50	2	152	6.00	121	4.75	92	3.62	19.5	0.75			20	0.75		
	15	1/2	95	3.75	67	2.62	35	1.38	14.3	0.56			16	0.62		
	20	3/4	117	4.62	83	3.25	43	1.69	15.8	0.62			20	0.75		
300	25	1	124	4.88	89	3.50	51	2.00	17.5	0.69	1.6	0.06	20	0.75	4	
300	32	1 1/4	133	5.25	99	3.88	64	2.50	19.5	0.75				20	0.75	
	40	1 1/2	155	6.12	114	4.50	73	2.88	20.6	0.81			22	0.88		
	50	2	165	6.50	127	5.00	92	3.62	22.5	0.88			20	0.75	8	
	15	1/2	95	3.75	67	2.62	35	1.38	14.3	0.56			16	0.62		
	20	3/4	117	4.62	83	3.25	43	1.69	15.8	0.62			20	0.75		
600	25	1	124	4.88	89	3.50	51	2.00	17.5	0.69	6.4	0.25	20	0.75	4	
550	32	1 1/4	133	5.25	99	3.88	64	2.50	20.6	0.81			20	0.75		
	40	1 1/2	155	6.12	114	4.50	73	2.88	22.5	0.88			22	0.88		
	50	2	165	6.50	127	5.00	92	3.62	25.4	1.00			20	0.75	8	



Buttweld End: ANSI B16.25

Dime	Dimension of Pipes (mm)											
Size	Sc	hedule 8	30	Sc	hedule1	160	Schedule xx-stg					
(in.)	Dз	D ₂	t	Dз	D2	t	Dз	D ₂	t			
1/4	13.7	7.7	3.0	-	-	-	-	-	-			
3/8	17.1	10.7	3.2	-	-	-	-	-	-			
1/2	21.3	13.9	3.7	21.3	11.8	4.8	21.3	6.4	7.5			
3/4	26.7	18.8	3.9	26.7	15.6	5.6	26.7	11.9	7.8			
1	33.4	24.4	4.5	33.4	20.7	6.4	33.4	15.2	9.1			
11/2	48.3	38.1	5.1	48.3	34.0	7.1	48.3	27.9	10.2			
2	60.3	49.3	5.5	60.3	42.9	8.7	60.3	38.2	11.1			

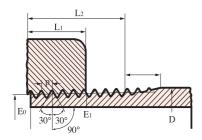
Fig A: Applicable for thickness of valve wall s > 22.2mm

Fig B: Applicable for thickness of valve wall $s \le 22.2mm$

[—] Dimension d1 depends on requested schedule.



Taper Pipe Threads End (NPT) and Socket Weld End (S.W)



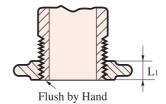
Eo = D-(0.050D+1.1)p

p = Pitch

E1(d) = Eo+0.0625L1 **L2** = (0.80+6.8)p

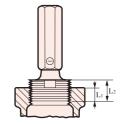
Depth of thread = 0.80p

Total Taper 3/4-inch per Foot



Tolerance on Product.

One turn large or small from notch on plug gauge or face of ring gauge.

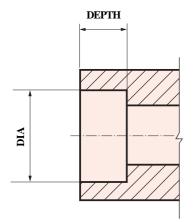


Notch flush with face of fitting. If chamferd, notch with bottom of chamfer.

Dimensio	ns in inch	ies						
	D		Р	Eo	E1 (a)	L1 (b)	L2 (c)	
	Outside	Number	Pith	Pich diameter	Pich diameter	Normal	Lengh	
Normal	diameter	of threads	of thread	at beginning	at end	engagement by	of effective	Height
pipe size	of pipe	per inch		of external	of external	and between	external thread	of thread
				thread	threads	external and		
						internal threads		
1/16	0.3125	27	0.03704	0.27118	0.28118	0.160	0.2611	0.02963
1/8	0.405	27	0.03704	0.36351	0.37360	0.1615	0.2639	0.02963
1/4	0.540	18	0.05556	0.47739	0.49163	0.2278	0.4018	0.04444
3/8	0.675	18	0.05556	0.61201	0.62701	0.240	0.4078	0.04444
1/2	0.840	14	0.07143	0.75843	0.77843	0.320	0.5337	0.05714
3/4	1.050	14	0.07143	0.96768	0.98887	0.339	0.5457	0.05714
1	1.315	11.5	0.08696	1.21363	1.23863	0.400	0.6828	0.06957
11/4	1.660	11.5	0.08696	1.55713	1.58338	0.420	0.7068	0.06957
11/2	1.900	11.5	0.08696	1.79609	1.82234	0.420	0.7235	0.06957
2	2.375	11.5	0.08696	2.26902	2.29627	0.436	0.7565	0.06957

- (a) Also pitch diameter at gauging notch.
- (b) Also lenth of thin ring gauge, and length from gauging notch to small end of plug gauge.
- (c) Also lenth of plug gauge.
- (d) For the 1/8-27 and 1/4-18 sizes... E1 approx.=D-(0.05D+0.827) P.

Above information extracted from American National Standard for Pipe Threads, ANSI B1.20.1



Socket	Wal	4 A	NCI	R1	6	11
SOCKET	vvei	CI A	וכעו	ВΙ	n.	

Dimensio	ons						
Norm	al		Socket E	Bore DIA.		Socke	t Depth
Pipe S	Size	Inch	ies	Millir	neters	M	lin.
NPS	DN	Max.	Min.	Max.	Min.	inch	mm
1/4	8	0.565	0.555	14.35	14.10	0.38	9.6
3/8	10	0.700	0.690	17.78	17.53	0.38	9.6
1/2	15	0.865	0.855	21.97	21.72	0.38	9.6
3/4	20	1.075	1.065	27.30	27.05	0.50	12.7
1	25	1.340	1.330	34.04	33.78	0.50	12.7
11/4	32	1.685	1.675	42.80	42.54	0.50	12.7
11/2	40	1.925	1.915	48.90	48.64	0.50	12.7
2	50	2.416	2.406	61.37	61.11	0.62	15.8



Terms & Conditions

Ouotation

All prices are F.O.B. shipping point unless otherwise agreed or specified in the quotation. Prices are valid only for the duration indicated in the quotation and are subject to change without notice. Prices also do not include any federal, state or local taxes or other government charges.

Design changes

We reserve the right to institute changes in material, design and specification without notice.

Cancellation or changes

Orders placed with us are not subject to cancellation or changes without our prior consent. A cancellation charge or a price adjustment will be applicable unless otherwise agreed.

Delivery

We will not be responsible for delays or failure to deliver due to causes beyond our control. Delivery of material to a common carrier shall be considered delivery to the Buyer . Claims for loss or any damage to material in transit shall be filed by the Buyer direct with the carrier. Claims for any shortage, corrections or deductions must be made in writing within 10 days after receipt of goods.

Return of goods

Any return of goods will not be accepted without our prior authorization. Return goods should be of our manufacture, in clean and salable condition. A minimum charge of 35 percent of the invoice price will be made to cover the cost of handling and reconditioning. The freight for return goods shall be prepaid by Buyer.

Limited warranty

DHV Industries, Inc. warrants to the original Buyer, not any third party, for products of our manufacture, for a period of one year after date of shipment, that its products will be free from defects in materials and workmanship under proper and normal use.

Any claim for defect goods should be by written notice to DHV Industries,Inc. immediately upon discovery. NO warranty shall apply to our product which has been modified or changed in design or function, misused, or impropery maintained. DHV Industries,Inc.shall be able to inspect claimed defects at original buyer's facility to determine its obligation. Without authorization of DHV Industries, Inc. any repair labor or material is not allowed. No goods may be returned without permission from DHV Industries,Inc.

This warranty does not extend beyond original sale price and does not extend to any claim for labor. Consequential damages, losses, whether directly or indirectly suffered or in any other manner relating to the defects.

