KVC INDUSTRIES

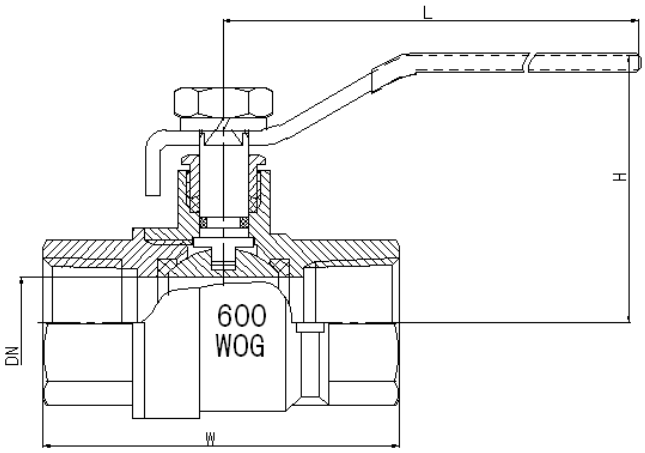
CATALOG 2019

KVC INDUSTRIES

Canadian Master Distributor of :

Brass / Bronze Valves
Butterfly Valves
Fire Protection Valves
Stainless Steel & Carbon Steel Valves
Cast Steel, Cast Iron & Forged Valves

FIG. 100T 600 WOG FULL PORT FORGED BRASS BALL VALVE THREADED ENDS



Features:

- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Brass/Chrome Plated Or Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating:

- 600 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F

Material List:

Part Name	Material
Body	Brass
Seat	PTFE
Ball	Brass/Chrome Plated (¼" - 1")
	Stainless Steel((1 ¼" - 4")
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (¼" - 2")
	Stainless Steel(2 ½" - 4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Brass

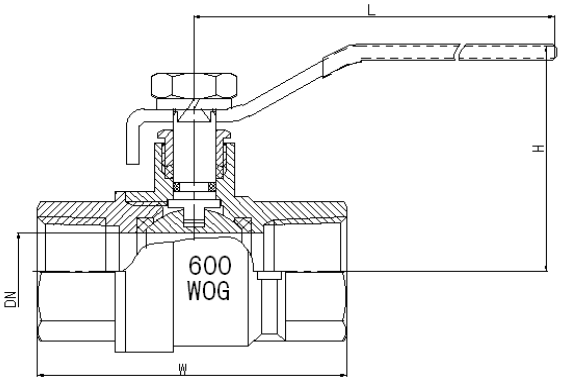
Approvals:

CSA:	¼" - 4" Per ANSI Z21.15/CSA 9.1 for 1/2 psig
	¼" - 4" Per ASME B16.44 /CR91-002 for 5 psig
	¼" - 2" Per CGA3.16 for 125 psig
	½" - 2" Per ASME B16.33 for 125 psig
	2 ½" - 4" Per ASME B16.38 /CGA3.16 for 125 psig
UL:	¼" - 4" UL 842 (Guide YRBX,MHKZ)
	¼" - 4" UL 125 (Guide YSDT,YRPV)
	¼" - 4" UL 1477 (Guide YQNZ)
FM:	¼" - 2" Per FM1140 for 600psig

Dimensions:

SIZE	DN	L	H	W	Cv	Wt.(lbs.)
¼"	0.394	3.46	1.68	1.73	8.23	0.31
⅜"	0.394	3.46	1.68	1.75	8.23	0.30
½"	0.591	3.46	1.81	2.24	18.55	0.45
¾"	0.748	4.29	2.09	2.52	29.76	0.75
1"	0.984	4.29	2.25	2.97	51.55	1.14
1 ¼"	1.259	5.63	2.52	3.44	84.42	1.76
1 ½"	1.574	5.63	2.74	3.88	131.93	2.41
2 "	1.941	5.63	3.03	4.29	200.35	3.38
2 ½"	2.520	7.76	4.25	5.53	338.43	7.03
3"	2.893	8.19	4.58	6.14	445.44	9.66
4"	3.838	9.25	5.49	7.79	783.88	18.31

FIG. NL-100T 600 WOG LEAD-FREE FULL PORT FORGED BRASS BALL VALVE THREADED ENDS



Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating

- 600 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F

Material List:

Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (¼" - 2")
	Stainless Steel(2½" - 4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass

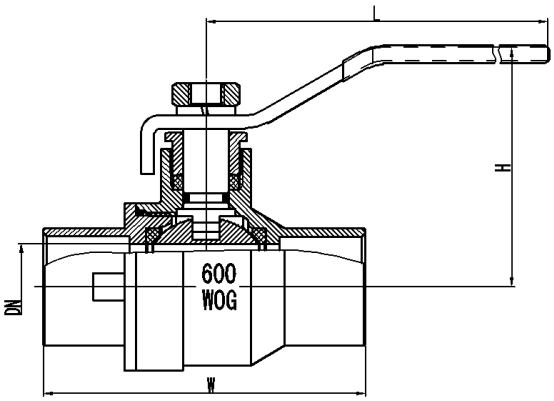
Approvals:

CSA:	¼" - 4" Per ANSI Z21.15/CSA 9.1 for 1/2 psig
	¼" - 4" Per ASME B16.44 /CR91-002 for 5 psig
	¼" - 2" Per CGA3.16 for 125 psig
	½" - 2" Per ASME B16.33 for 125 psig
	2 ½" - 4" Per ASME B16.38 /CGA3.16 for 125 psig
UL:	¼" - 4" UL 842 (Guide YRBX,MHKZ)
	¼" - 4" UL 125 (Guide YSDT,YRPV)
	¼" - 4" UL 1477 (Guide YQNZ)
FM:	¼" - 2" Per FM1140 for 600psig

Dimensions:

SIZE	DN	L	H	W	Cv	Wt.(lbs.)
¼"	0.394	3.46	1.68	1.73	8.23	0.31
⅜"	0.394	3.46	1.68	1.75	8.23	0.30
½"	0.591	3.46	1.81	2.24	18.55	0.45
¾"	0.748	4.29	2.09	2.52	29.76	0.75
1"	0.984	4.29	2.25	2.97	51.55	1.14
1 ¼"	1.259	5.63	2.52	3.44	84.42	1.76
1 ½"	1.574	5.63	2.74	3.88	131.93	2.41
2 "	1.941	5.63	3.03	4.29	200.35	3.38
2 ½"	2.520	7.76	4.25	5.53	338.43	7.03
3"	2.893	8.19	4.58	6.14	445.44	9.66
4"	3.838	9.25	5.49	7.79	783.88	18.31

FIG. 100C 600 WOG FULL PORT FORGED BRASS BALL VALVE SOLDER JOINT ENDS



Features:

- Solder-Joint conform ASME B16.22
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Brass/Chrome Plated Or Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating:

- 600 psi (WOG) 150 psi (WSP) Service v
- Temperature Range : -20° F to 300° F

Material List:

Part Name	Material
Body	Brass
Seat	PTFE
Ball	Brass/Chrome Plated (½" - 1")
	Stainless Steel((1 ¼" - 4")
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (½" - 2")
	Stainless Steel(2 ½" - 4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Brass

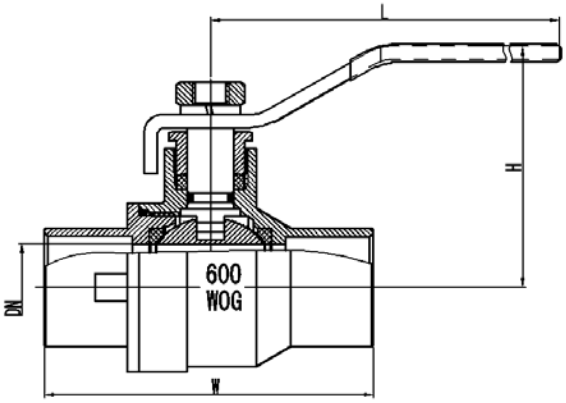
Approvals:

UL:	½" - 4" UL 842 (Guide YRBX,MHKZ)
	½" - 4" UL 125 (Guide YSDT,YRPV)
	½" - 4" UL 1477 (Guide YQNZ)
FM:	½" - 2" per FM1140 for 600psig
CSA:	½" - 1" per ASME A118.18.1,CSA B125.1

Dimensions:

SIZE	DN	L	H	W	Cv	Wt.(lbs.)
½"	0.591	3.46	1.81	2.17	18.55	0.40
¾"	0.748	4.29	2.09	2.81	29.76	0.67
1"	0.984	4.29	2.25	3.34	51.55	1.03
1 ¼"	1.259	5.63	2.52	3.91	84.42	1.59
1 ½"	1.574	5.63	2.74	4.46	131.93	2.28
2 "	1.941	5.63	3.03	5.45	200.35	3.48
2 ½"	2.520	7.76	4.25	6.42	338.43	6.72
3"	2.893	8.19	4.58	7.15	445.44	8.66
4"	3.839	9.25	5.49	9.57	783.88	17.42

FIG. NL-100C 600 WOG LEAD-FREE FULL PORT FORGED BRASS BALL VALVE SOLDER JOINT ENDS



Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- Solder-Joint conform ASME B16.22
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating

- 600 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F

Material List:

Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (½"- 2")
	Stainless Steel(2 ½"- 4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Body O-Ring	VITON

Approvals:

UL:	½" - 4" UL 842 (Guide YRBX,MHKZ)
	½" - 4" UL 125 (Guide YSDT,YRPV)
	½" - 4" UL 1477 (Guide YQNZ)
FM:	½" - 2" Per FM1140 for 600psig
CSA:	½" - 4" Per NSF/ANSI-61, NSF/ANSI-372 ,IGC-157

C US

LEAD FREE

Dimensions:

SIZE	DN	L	H	W	Cv	Wt.(lbs.)
½"	0.591	3.46	1.81	2.17	18.55	0.40
¾"	0.748	4.29	2.09	2.81	29.76	0.67
1"	0.984	4.29	2.25	3.34	51.55	1.03
1 ¼"	1.259	5.63	2.52	3.91	84.42	1.59
1 ½"	1.574	5.63	2.74	4.46	131.93	2.28
2 "	1.941	5.63	3.03	5.45	200.35	3.48
2 ½"	2.520	7.76	4.25	6.42	338.43	6.72
3"	2.893	8.19	4.58	7.15	445.44	8.66
4"	3.839	9.25	5.49	9.57	783.88	17.42

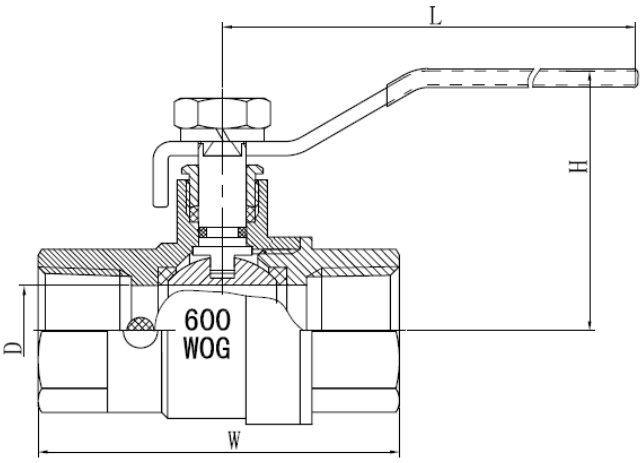
FIG. NL-110T LEAD FREE 600 WOG FULL PORT BRASS BALL VALVE THREADED ENDS W/DRAIN

Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating

- 600 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F



Material List:

Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Drain Cap	Brass
Drain Washer	EPDM

Approvals:

CSA:	½" - 1" Per NSF/ANSI-61, NSF/ANSI-372 ,IGC-157

LEAD FREE

Dimensions:

SIZE	DN	L	H	W	Cv
½"	0.591	3.46	1.81	2.32	18.55
¾"	0.748	4.29	2.09	2.56	29.76
1"	0.984	4.29	2.25	2.99	51.55

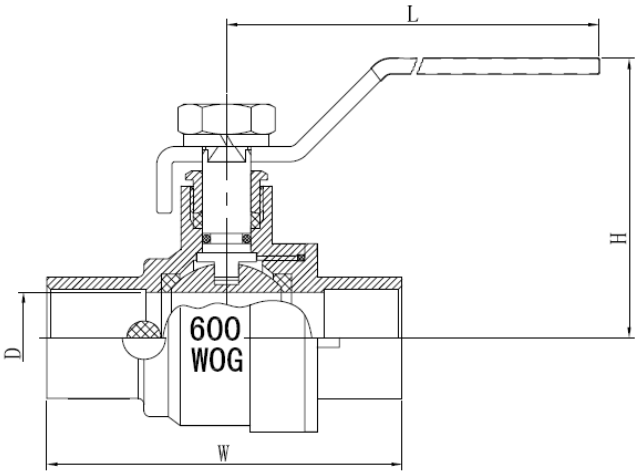
FIG. NL-110C LEAD FREE 600 WOG FULL PORT BRASS BALL VALVE SOLDER JOINT ENDS W/DRAIN

Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- Solder-Joint conform ASME B16.22
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating

- 600 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F



Material List:

Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Body O-Ring	VITON
Drain Cap	Brass
Drain Washer	EPDM

Approvals:

CSA:	½" - 1" Per NSF/ANSI-61, NSF/ANSI-372 ,IGC-157

Dimensions:

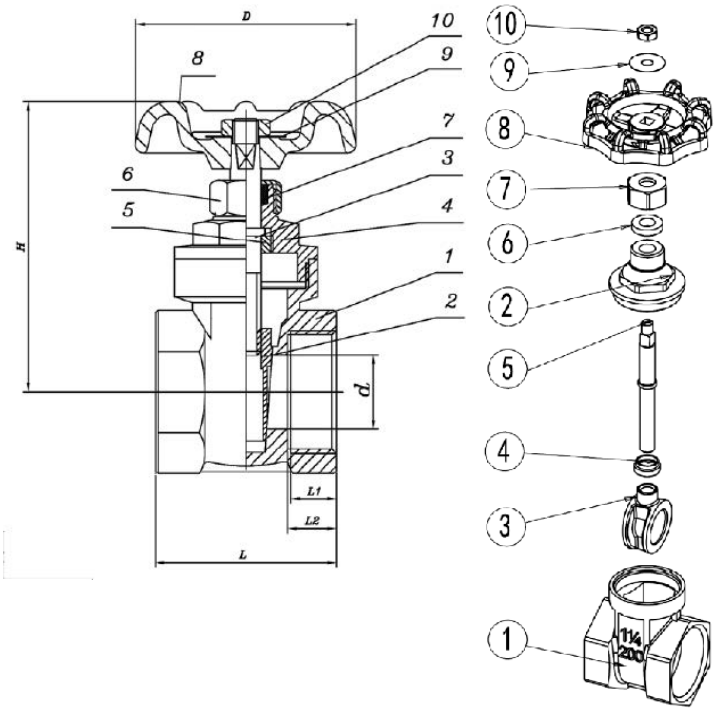
SIZE	DN	L	H	W	Cv
½"	0.591	3.46	1.81	2.302	18.55
¾"	0.748	4.29	2.09	2.933	29.76
1"	0.984	4.29	2.25	3.366	51.55

FIG. 102T

200 WOG FORGED BRASS NRS GATE VALVE NPT ENDS

Features:

- 200 WOG, screwed bonnet, brass body & bonnet, non-rising stem, NPT ends.
- Valves comply to: MSS SP-25
- Working pressure: 200 psi
- Threaded ends to: ANSI B1.20.1



Material List:

No.	Part Name	Specification
1	Body	Brass
2	Disc	Brass
3	Stem	Brass
4	Bonnet	Brass
5	Lock Nut	Brass
6	Nut	Brass
7	Gland Packing	PTFE
8	Handwheel	Cast Iron
9	Name Plate	AL
10	Nut	Q235

Dimensions:

Size		D	d	L		L1		L2		H	
in	mm			in	mm	in	mm	in	mm	in	mm
¼	8	Ø53	Ø11	1.65	42	0.39	10	0.47	12	2.82	71.5
⅜	10	Ø53	Ø12.5	1.65	42	0.39	10	0.47	12	2.82	71.5
½	15	Ø53	Ø13.5	1.65	42	0.43	11	0.49	12.5	2.9	73.7
¾	20	Ø53	Ø19.5	1.84	46.5	0.47	12	0.53	13.5	3.37	85.7
1	25	Ø59	Ø25	2.05	52	0.55	14	0.61	15.5	3.8	96.5
1 ¼	32	Ø78	Ø31.5	2.3	58.5	0.59	15	0.65	16.5	4.36	110.7
1 ½	40	Ø78	Ø37.5	2.45	62	0.59	15	0.69	17.5	4.88	124
2	50	Ø78	Ø48	2.76	70	0.78	18	0.79	20	5.59	142
2 ½	65	Ø108	Ø62	3.48	88.5	0.81	20.5	0.93	23.5	7.3	185.5
3	80	Ø126	Ø76	3.82	97	0.91	23	1.02	26	8.23	209
4	100	Ø144	Ø98	4.57	116	1.18	30	1.34	34	9.96	253

FIG. 150T

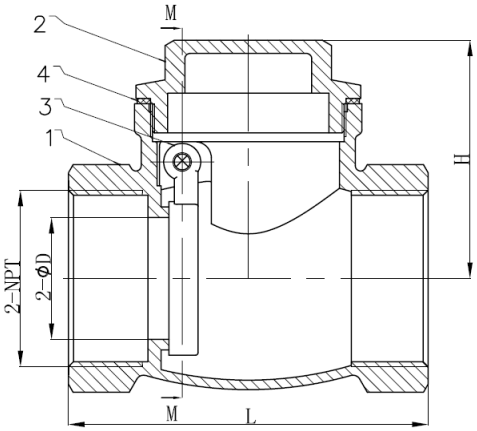
200 WOG BRASS SWING CHECK VALVE T-PATTERN NPT END

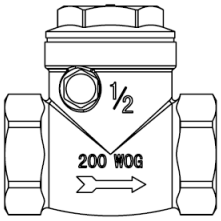
Features:

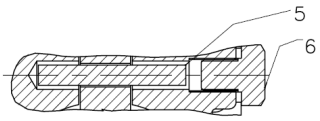
- Valves conform to: MSS SP-80, Type 2
- Threaded Ends per ANSI B1.20.1

Performance Rating:

- The Max .Working Pressure 200PSI
- Working Temperature 32°F - 212°F







M-M Section view

Material List:

NO.	Part Name	QTY	Material
1	Body	1	Brass
2	Bonnet	1	Brass
3	Disc	1	Brass
4	Washer	1	Fiber
5	Pin	1	Brass
6	Bolt	1	Brass

Dimensions: (mm)

SIZE	ØD	L	H
½"	13	50	35
¾"	18.5	56	39.5
1"	23	68	45
1 ¼"	21	75	53.5
1 ½"	36	80	59.5
2"	48	95	66
2 ½"	56	118	81.5
3"	76	140	90
4"	96	160	109

FIG. 150C

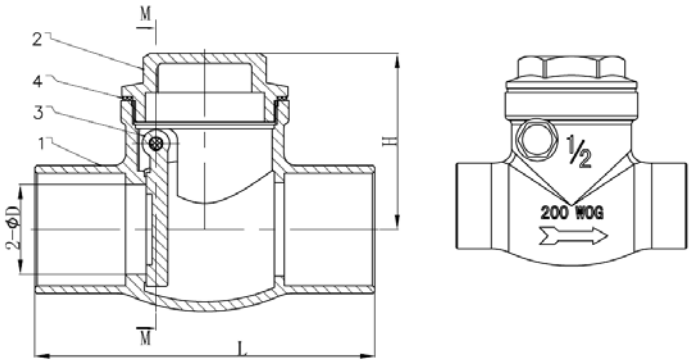
200 WOG BRASS SWING CHECK VALVE T-PATTERN CxC END

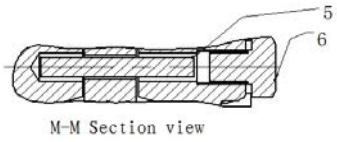
Features:

- Valves conform to: MSS SP-80, Type 2
- Threaded Ends per ANSI B1.20.1

Performance Rating:

- The Max .Working Pressure 200PSI
- Working Temperature 32°F - 212°F





M-M Section view

Material List:

NO.	Part Name	QTY	Material
1	Body	1	Brass
2	Bonnet	1	Brass
3	Disc	1	Brass
4	Washer	1	Fiber
5	Pin	1	Brass
6	Bolt	1	Brass

Dimensions:

SIZE	ϕd	L	H
½"	13	54	35
¾"	18	72	39.5
1"	23	87	45
1 ¼"	30	100	53.5
1 ½"	35	110	59.5
2 "	45	130	66

FIG. NL-161T

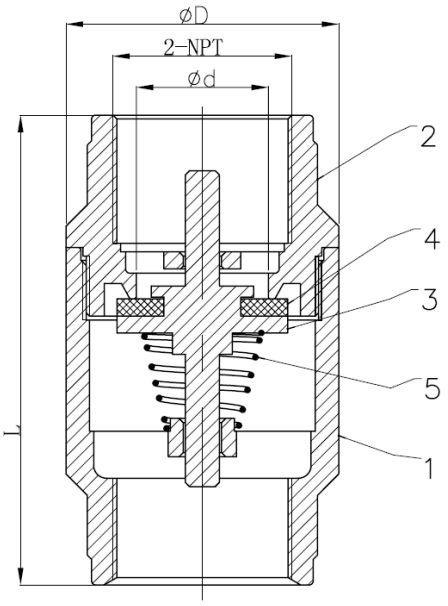
200 WOG LEAD FREE BRASS SWING VERTICAL CHECK VALVE NPT END EPDM SEAT

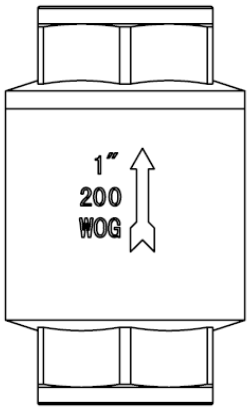
Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Seals In EPDM-Rubber
- Spring In Stainless Steel AISI 304
- Screw in Brass

Performance Rating:

- The Max .Working Pressure 200PSI
- Working Temperature32° F - 212° F





Material List:

NO.	Part Name	QTY	Material
1	Body	1	Lead Free Brass
2	Bonnet	1	Lead Free Brass
3	Core	1	Lead Free Brass
4	Seat	1	EPDM
5	Spring	1	Stainless Steel

LEAD FREE

Dimensions: (mm)

SIZE	ϕd	L	ϕD	H
½"	15.5	55	32	35
¾"	19.5	62	39	39.5
1"	25	65	45.8	45
1 ¼"	33	72.5	58.5	53.5
1 ½"	36	78	65	59.5
2 "	43	87	80.5	66

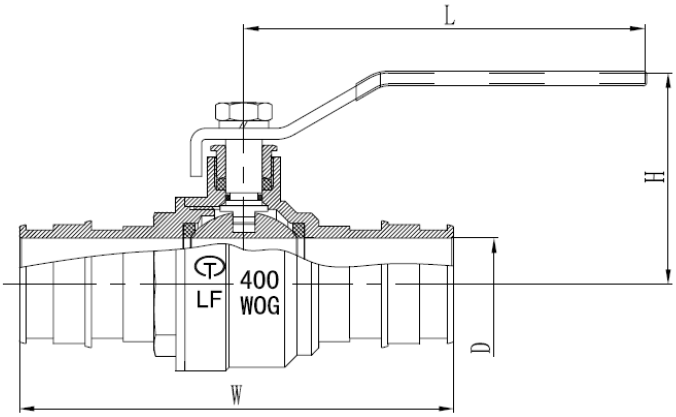
FIG. NL- 1406 LEAD FREE 400 WOG F1960 COLD EXPANSION BRASS BALL VALVE

Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- PROPEX end Conform To ASTM F1960
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating:

- 400 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F



Material List:

Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass

C US

LEAD FREE

Dimensions: (inch)

SIZE	D	L	H	W	Cv
⅜"	0.276	3.46	1.64	2.37	4.04
½"	0.394	3.46	1.69	2.58	8.23
¾"	0.611	3.46	1.81	3.31	19.80
1"	0.812	4.29	2.09	3.98	34.98
1 ¼"	0.984	4.29	2.25	4.65	51.55
1 ½"	1.103	5.63	2.45	5.52	64.64
2 "	1.575	5.63	2.74	6.91	131.92
2 ½"	2.010	5.63	3.04	8.80	214.45
3 "	2.440	7.76	4.25	10.75	316.93

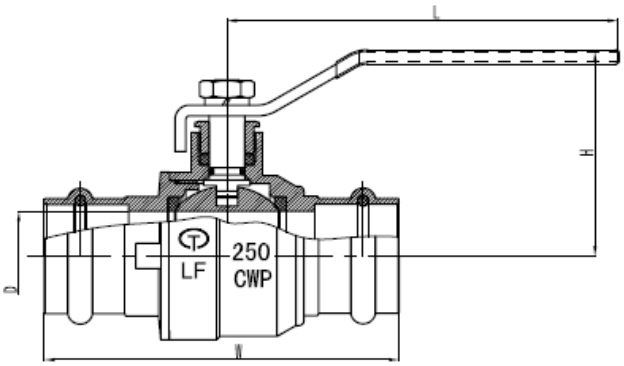
FIG. NL-1907: 600 WOG LEAD-FREE FULL PORT FORGED BRASS PROPRESS BALL VALVE

Features:

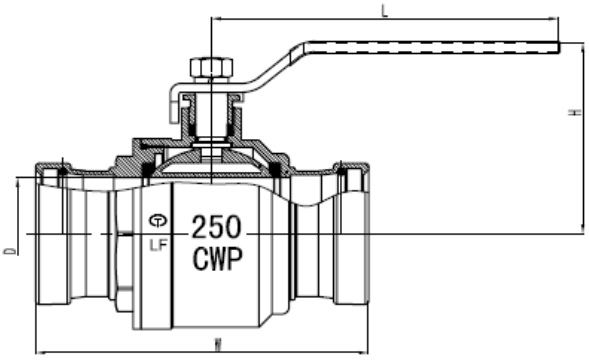
- Dezincification Resistant (DZR) Lead Free Brass Material
- PRESS conform IAPMO PS117
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating:

- 250 psi (CWP) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F



1/2″–2″



2 1/2″–4″

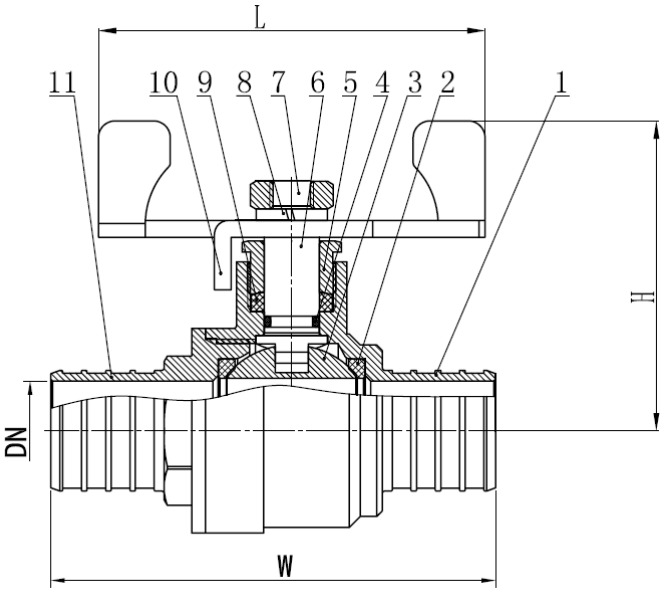
Material List

Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (½" - 2")
	Stainless Steel(2 ½" - 4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Body O-Ring	NBR
Press O-Ring	EPDM

Dimensions: (inch)

SIZE	D	L	H	W	Cv
½"	0.591	3.46	1.81	3.15	18.55
¾"	0.748	4.29	2.09	3.60	29.76
1"	0.984	4.29	2.25	3.92	51.55
1 ¼"	1.259	5.63	2.52	4.41	84.42
1 ½"	1.574	5.63	2.74	5.35	131.93
2 "	1.941	5.63	3.03	6.79	200.35
2 ½"	2.520	7.76	4.25	7.46	338.43
3 "	2.874	8.19	4.58	8.17	445.44
4"	3.839	9.25	5.49	9.88	783.88

FIG. NL-PB170W LEAD FREE 600 WOG FULL PORT BRASS BALL VALVE PEX*PEX WING HANDLE



Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- PEX end Conform To ASTM F1807
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating

- 600 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F

Material List:

NO.	Part Name	QTY	Material
1	Body	1	Lead Free Brass
2	Seat	2	PTFE
3	Ball	1	Stainless Steel
4	O-Ring	1	NBR
5	Packing Nut	1	Brass
6	Stem	1	Brass
7	Handle Nut	1	Plated Steel
8	Lock Washer	1	Plated Steel
9	Packing	1	PTFE
10	Handle	1	Plated Steel
11	Cap	1	Lead Free Brass

Approvals:

CSA:	⅜" - 2" Per NSF/ANSI-61, NSF/ANSI-372 ,IGC-157

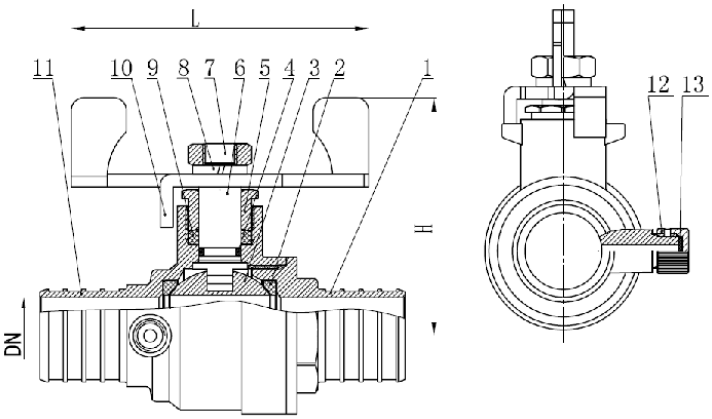
C US

LEAD FREE

Dimensions: (inch)

SIZE	DN	L	H	W	Cv
⅜"	0.229	3.46	1.64	2.40	2.77
½"	0.354	3.46	1.64	2.44	2.67
¾"	0.531	3.46	1.81	2.58	15.02
1"	0.713	4.29	2.09	3.17	27.01

FIG. NL-PB1711W 600 WOG FULL PORT BRASS BALL VALVE PEX*PEX WING HANDLE



Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- PEX end Conform To ASTM F1807
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating:

- 600 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F

Material List:

No	Part Name	QTY	Material
1	Body	1	Lead Free Brass
2	Seat	2	PTFE
3	Ball	1	Stainless Steel
4	O-Ring	1	NBR
5	Packing Nut	1	Brass
6	Stem	1	Brass
7	Handle Nut	1	Plated Steel
8	Lock Washer	1	Plated Steel
9	Packing	1	PTFE
10	Handle	1	Plated Steel
11	Cap	1	Lead Free Brass
12	Screw	1	Brass
13	Gasket	1	EPDM

Approvals:

CSA:	½" - 1" Per NSF/ANSI-61, NSF/ANSI-372 ,IGC-157

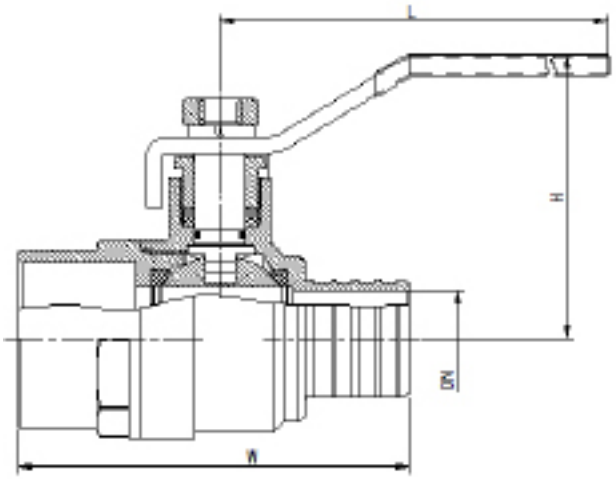
C US

LEAD FREE

Dimensions: (mm)

SIZE	DN	W	H	L
½"	9	67.5	45.2	50
¾"	13.5	71.5	49.5	50
1"	18.1	86	56.2	68

FIG. PF180L 400 WOG FULL PORT BRASS BALL VALVE PEX x SOLDER LEVER HANDLE



Features:

- Dezincification Resistant (DZR) Lead Free Brass Material
- Solder Joint conform ASME B.16.22
- PEX end Conform To ASTM F1807
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball
- Handle With Vinyl Grip

Performance Rating:

- 400 psi (WOG) 150 psi (WSP) Service
- Temperature Range : -20° F to 300° F

Material List:

NO.	Part Name	QTY	Material
1	Body	1	Lead Free Brass
2	Seat	2	PTFE
3	Ball	1	Stainless Steel
4	Stem O-Ring	1	NBR
5	Packing Nut	1	Brass
6	Stem	1	Brass
7	Lock Nut	1	Ferrum / Zinc Plated
8	Lock Washer	1	Ferrum / Zinc Plated
9	Packing	1	PTFE
10	Handle	1	Ferrum / Zinc Plated
11	Cap	1	Lead Free Brass

Approvals:

CSA:	⅜" - 2" Per NSF/ANSI-61, NSF/ANSI-372 ,IGC-157

C US C ® ISO9001:2015

Dimensions: (inch)

SIZE	DN	L	H	W	Cv
½"	0.354	3.46	1.64	2.44	2.67
¾"	0.531	3.46	1.81	2.58	15.02

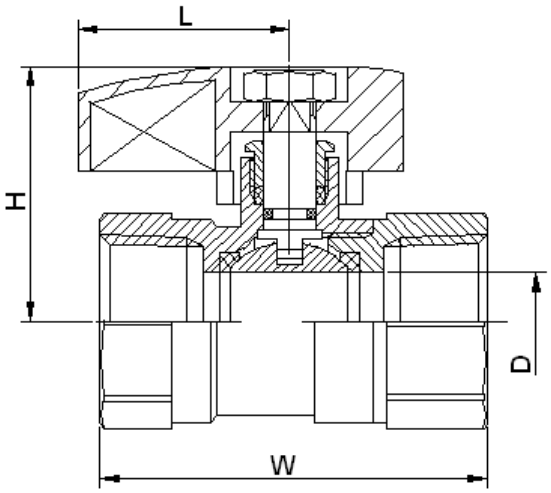
FIG. 246T BRASS RP GAS BALL VALVE FIP X FIP

Features:

- Thread conform ANSI B1.20.1
- Construction:Forging Brass Body
- PTFE Ball Seats
- Blow Out Proof Brass Stem
- Packing Nut, O-RING & PTFE Seal On The Seal

Performance Rating

- 600 psi (WOG) 175 psi (GAS) Service
- Temperature Range : -4° F to 149° F



Material List:

Part Name	Material
Body	Brass
Seat	PTFE
Ball	Brass/Chrome Plated
O-Ring	NBR
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum/ Plated Copper
Ball Packing	PTFE
Handle	Al alloy
Cap	Brass

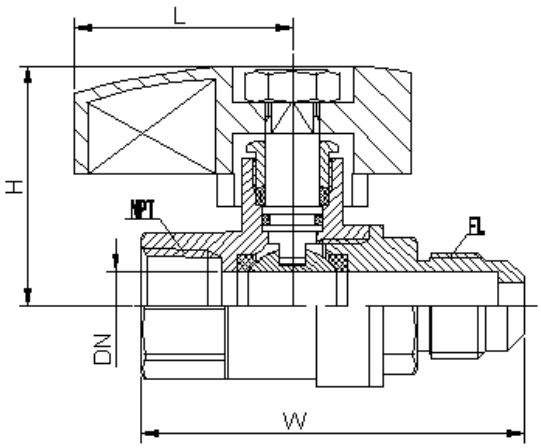
Approvals:

CSA:	⅜" - 1" Per ANSI Z21.15/CSA 9.1 for 1/2 psig
	⅜" - 1" Per ASME B16.44 /CR91-002 for 5 psig
	⅜" - 1" Per ASME B16.33 /CGA3.16 for 125 psig
UL:	UL 842 (Guide YRBX,MHKZ)
	UL 125 (Guide YSDT,YRPV)
	UL 1477 (Guide YQNZ)

Dimensions: (inch)

SIZE	D	L	H	W	Gas Flow(m3/hr)	Wt.(lbs.)
⅜"	0.394	1.28	1.437	1.752	4.03	0.260
½"	0.394	1.28	1.437	2.204	4.59	0.340
¾"	0.591	1.28	1.535	2.362	12.37	0.478
1"	0.748	1.28	1.721	2.874	21.13	0.767

FIG. 247 BRASS RP GAS BALL VALVE FLARE X FEMALE NPT



Features:

- Thread conform ANSI B1.20.1
- Construction:Forging Brass Body
- PTFE Ball Seats
- Blow Out Proof Brass Stem
- Packing Nut, O-RING & PTFE Seal On The Seal

Performance Rating

- 600 psi (WOG) 5 psi (GAS) Service
- Temperature Range : -4° F to 149° F

Material List:

Part Name	Material
Body	Brass
Seat	PTFE
Ball	Brass/Chrome Plated
O-Ring	NBR
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum/ Plated Copper
Ball Packing	PTFE
Handle	Al alloy
Cap	Brass

Approvals:

CSA:	ANSI Z21.15/CSA 9.1 for 1/2 psig
	ASME B16.44 /CR91-002 for 5 psig
UL:	UL 842 (Guide YRBX,MHKZ)
	UL 125 (Guide YSDT,YRPV)
	UL 1477 (Guide YQNZ)

Dimensions: (inch)

NPT	FL	DN	H	W	L	Gas Flow(m3/hr)	Wt.(lbs.)
⅜"	⅝"UNF(FL⅜")	0.394	1.437	2.224	1.28	2.43	0.295
½"	⅝"UNF(FL⅜")	0.394	1.437	2.382	1.28	2.62	0.324
½"	¾"UNF(FL½")	0.394	1.437	2.520	1.28	3.98	0.355
½"	⅞"UNF	0.394	1.437	2.657	1.28	4.43	0.381
½"	15⁄16"UNF(FL⅝")	0.394	1.437	2.638	1.28	4.51	0.388
¾"	¾"UNF(FL½")	0.591	1.540	2.717	1.28	4.32	0.476
¾"	⅞"UNF	0.591	1.540	2.84	1.28	4.97	0.522
¾"	15⁄16"UNF(FL⅝")	0.591	1.540	2.85	1.28	5.12	0.527

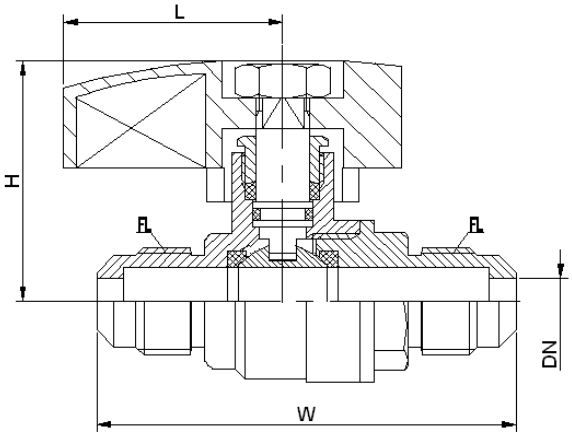
FIG. 248 BRASS RP GAS BALL VALVE FLARE X FLARE

Features:

- Construction:Forging Brass Body
- PTFE Ball Seats
- Blow Out Proof Brass Stem
- Packing Nut, O-RING & PTFE Seal On The Seal

Performance Rating

- 5 psi (GAS) Service
- Temperature Range : -4° F to 149° F



Material List:

Part Name	Material
Body	Brass
Seat	PTFE
Ball	Brass/Chrome Plated
O-Ring	NBR
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum/ Plated Copper
Ball Packing	PTFE
Handle	Al alloy
Cap	Brass

Approvals:

CSA:	ANSI Z21.15/CSA 9.1 for 1/2 psig
	ASME B16.44 /CR91-002 for 5 psig
UL:	UL 842 (Guide YRBX,MHKZ)
	UL 125 (Guide YSDT,YRPV)
	UL 1477 (Guide YQNZ)

Dimensions: (inch)

FL	DN	H	W	L	Gas Flow(m3/hr)	Wt.(lbs.)
5/8"UNF(FL3/8")	0.268	1.437	2.440	1.28	1.65	0.287
3/4"UNF(FL1/2")	0.378	1.437	2.697	1.28	2.45	0.342
7/8"UNF	0.488	1.535	3.189	1.28	4.29	0.518
15/16"UNF(FL5/8")	0.567	1.535	3.130	1.28	4.76	0.522

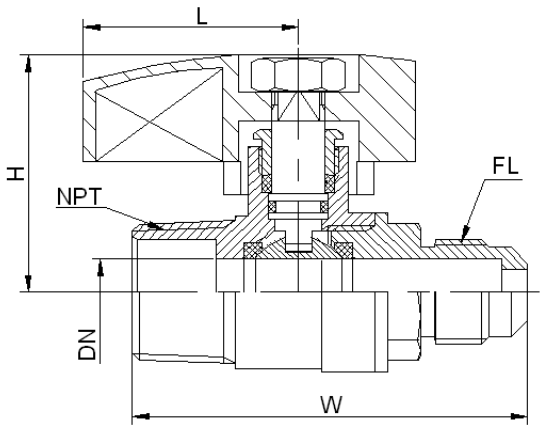
FIG. 249 BRASS RP GAS BALL VALVE FLARE x MALE NPT

Features:

- Thread conform ANSI B1.20.1
- Construction:Forging Brass Body
- PTFE Ball Seats
- Blow Out Proof Brass Stem
- Packing Nut, O-RING & PTFE Seal On The Seal

Performance Rating

- 5 psi (GAS) Service
- Temperature Range : -4° F to 149° F



Material List:

Part Name	Material
Body	Brass
Seat	PTFE
Ball	Brass/Chrome Plated
O-Ring	NBR
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum/ Plated Copper
Ball Packing	PTFE
Handle	Al alloy
Cap	Brass

Approvals:

CSA:	ANSI Z21.15/CSA 9.1 for 1/2 psig
	ASME B16.44 /CR91-002 for 5 psig
UL:	UL 842 (Guide YRBX, MHKZ)
	UL 125 (Guide YSDT, YRPV)
	UL 1477 (Guide YQNZ)

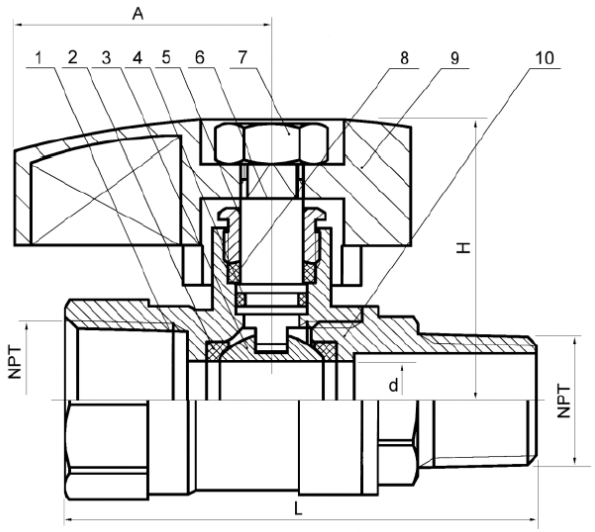
Dimensions: (inch)

FL	NPT	DN	H	W	L	Gas Flow(m3/hr)
⅝"UNF(⅜"FL)	½"	0.394	1.437	2.343	1.28	1.65
¾"UNF(½"FL)	½"	0.394	1.437	2.480	1.28	2.45

FIG. 250 BRASS RP GAS BALL VALVE FEMALE NPT x MALE NPT

Features:

- Forged Bras Construction
- Reduced Port
- For use with Natural, manufactured, mixed Liquefied, Petroleum & LP gas-air mixtures
- Temperature range: -40° C to 65° C (-40° F to 149° F)



Material List:

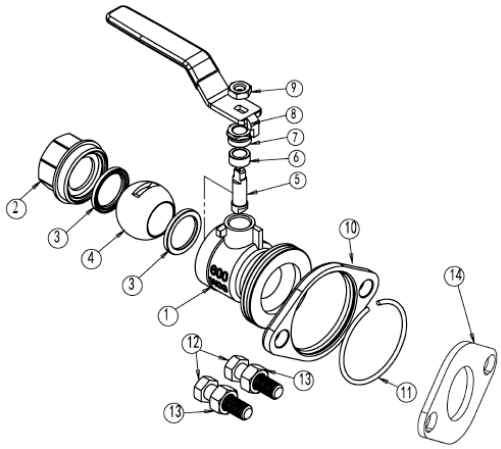
No.	Part Name	Specification
1	Body	Brass C37700
2	Seat	PTFE
3	Chrome Plated Ball	Brass C37700
4	O-Ring	NBR
5	Packing Nut	Brass C37700
6	Stem	Brass C37700
7	Handle Nut	Chrome Plated Steel
8	Packing	PTFE
9	Handle	Aluminum Alloy
10	Tail Piece	Brass C37700

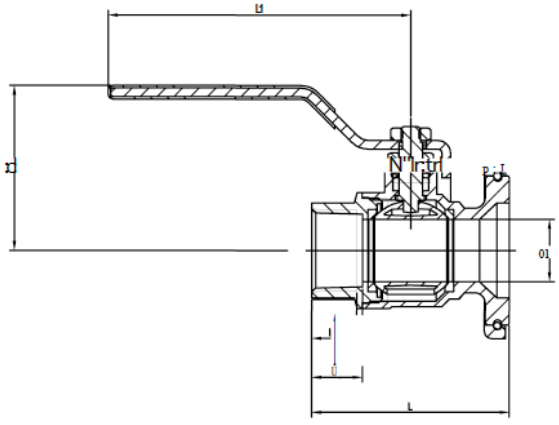
Dimensions:

Size	FNPT	MNPT	d		L		H		A		Weight	
in	in	in	in	mm	in	mm	in	mm	in	mm	lb	kg
⅜ x ⅜	⅜	⅜	0.31	8	2.2	56	1.42	36	1.28	32.5	0.33	0.15

FIG. 181

600 WOG FLANGED x NPT PUMP ISOLATION VALVE





Features:

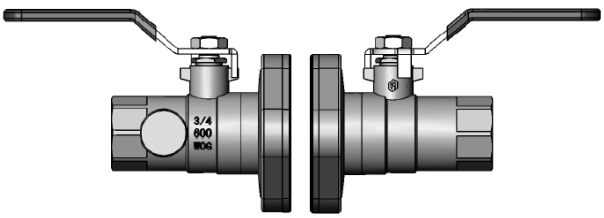
- Heavy duty forged brass pump isolation valve
- Blow-out proof stem
- Rotating flange (From ¾" to 1 ½")
- Adjustable packing gland construction
- 600 WOG rating
- Lever handle
- Threaded end confirm to ASME B1.20.1

Material List:

No.	Part Name	Specification
1	Body	Brass
2	Bonnet	Brass
3	Seat Seal	PTFE
4	Ball	Brass
5	Stem	Brass
6	Gasket	PTFE
7	Nut	Brass
8	Handle	Q235
9	Nut	Q235
10	Flange	Brass
11	O-Ring	Stainless Steel
12	Screw	Q235
13	Nut	Q235
14	Rubber Gasket	EPDM

Options:

- Wing handle
- Removable flange

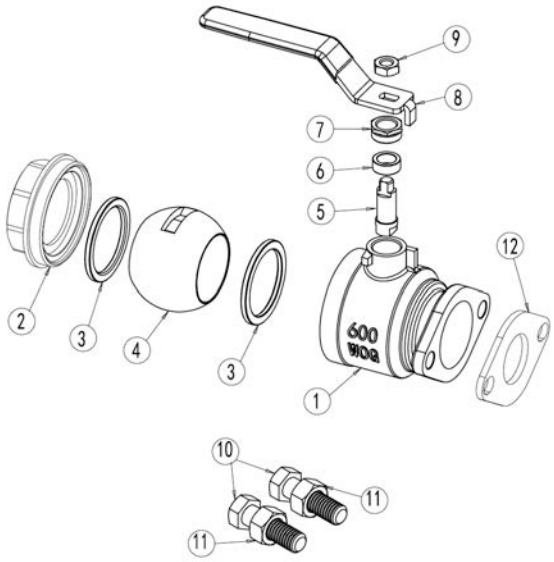


Dimensions: (mm)

Size		Dimension				
in	mm	L	L1	L2	L3	H
¾"	Ø19	60.8	100	14	16	56.3
1"	Ø25	79.3	123	18	20	68
1 ¼"	Ø31.5	83	123	17.3	19.8	73.8
1 ½"	Ø38	100.6	152	17.3	20	89.5

FIG. 181-200

600 WOG FLANGED x NPT PUMP ISOLATION VALVE



Features:

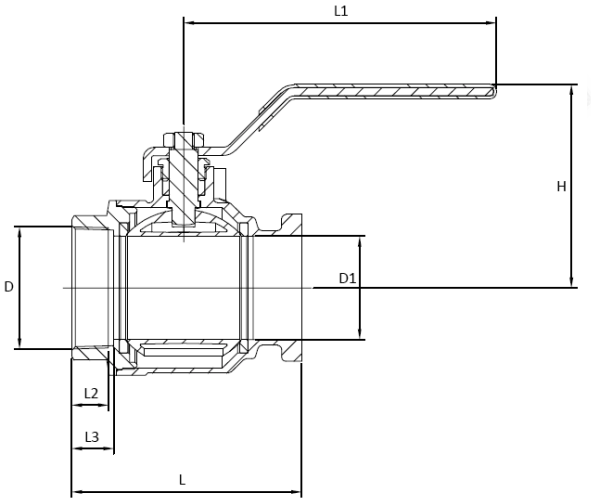
- Heavy duty forged brass pump isolation valve
- Blow-out proof stem
- Fixed flange
- Adjustable packing gland construction
- 600 WOG rating
- Lever handle
- Threaded end confirm to ASME B1.20.1

Material List:

No.	Part Name	Specification
1	Body	Brass
2	Bonnet	Brass
3	Seat Seal	PTFE
4	Ball	Brass
5	Stem	Brass
6	Gasket	PTFE
7	Nut	Brass
8	Handle	Q235
9	Nut	Q235
10	Screw	Q235
11	Nut	Q235
12	Rubber Gasket	EPDM

Options:

- Wing handle
- Removable flange

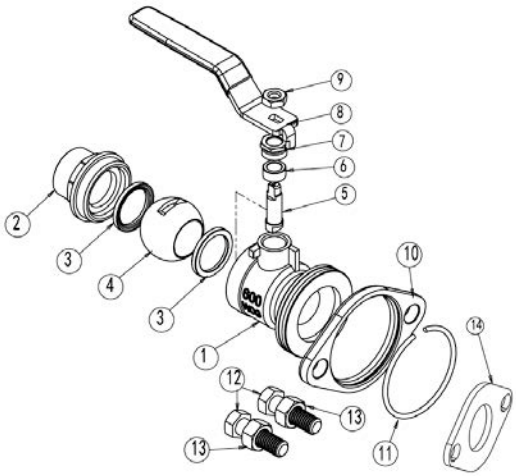


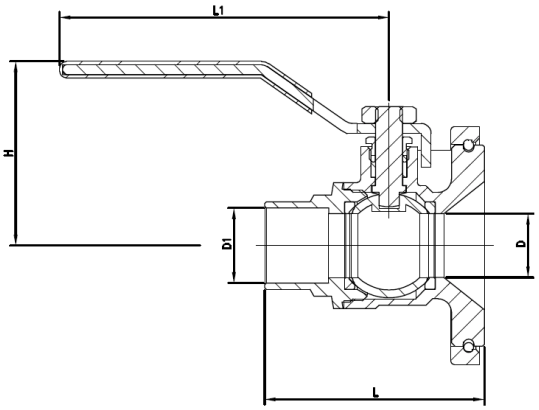
Dimensions: (mm)

Size		Dimension					
D		D1	L	L1	L2	L3	H
in	mm						
2”	Ø50.8	Ø50	11.4	152	17.7	20.3	98.5

FIG. 182

600 WOG FLANGED x COPPER PUMP ISOLATION VALVE





Features:

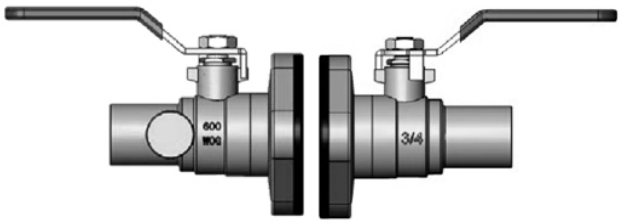
- Heavy duty forged brass pump isolation valve
- Blow-out proof stem
- Rotating flange (From ¾" to 1 ½")
- Adjustable packing gland construction
- 600 WOG rating
- Lever handle
- Solder end confirm to ASME B16.18

Material List:

No.	Part Name	Specification
1	Body	Brass
2	Bonnet	Brass
3	Seat Seal	PTFE
4	Ball	Brass
5	Stem	Brass
6	Gasket	PTFE
7	Nut	Brass
8	Handle	Q235
9	Nut	Q235
10	Flange	Brass
11	O-Ring	Stainless Steel
12	Screw	Q235
13	Nut	Q235
14	Rubber Gasket	EPDM

Options:

- Wing handle
- Removable flange

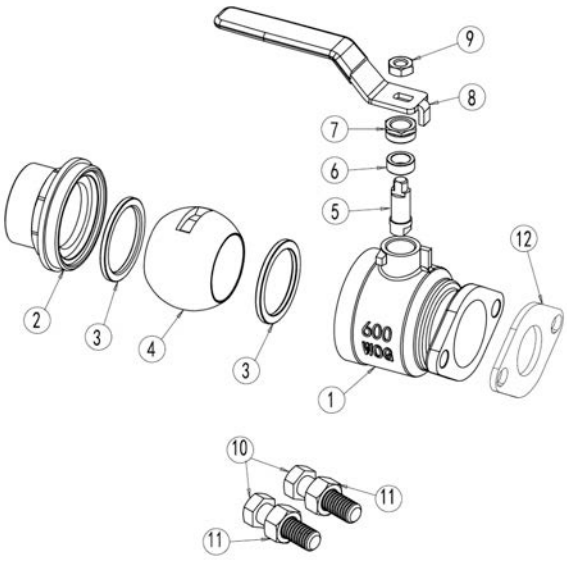


Dimensions:

Size		Dimension				
in	mm	L	L1	L2	D1	H
¾"	Ø19	65.3	100	14	Ø22.3	56.3
1"	Ø25	83.9	123	18	Ø28.7	68
1 ¼"	Ø31.5	89.3	123	17.3	Ø35	73.8
1 ½"	Ø38	109.6	152	17.3	Ø41.4	89.5

FIG. 182-200

600 WOG FLANGED x COPPER PUMP ISOLATION VALVE



Features:

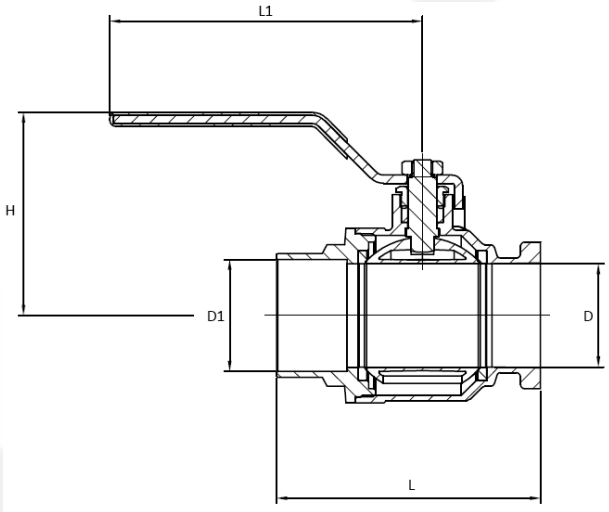
- Heavy duty forged brass pump isolation valve
- Blow-out proof stem
- Fixed flange
- Adjustable packing gland construction
- 600 WOG rating
- Lever handle
- Solder end confirm to ASME B16.18

Material List:

No.	Part Name	Specification
1	Body	Brass
2	Bonnet	Brass
3	Seat Seal	PTFE
4	Ball	Brass
5	Stem	Brass
6	Gasket	PTFE
7	Nut	Brass
8	Handle	Q235
9	Nut	Q235
10	Screw	Q235
11	Nut	Q235
12	Rubber Gasket	EPDM

Options:

- Wing handle
- Removable flange



Dimensions:

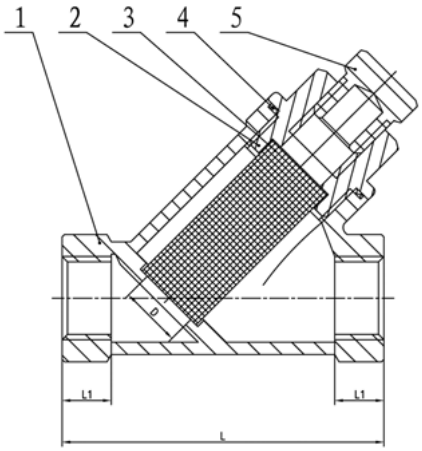
Size		Dimension			
in	mm	L	L1	D1	H
2”	Ø50.8	111.4	152	Ø54.1	98.5

FIG. 415

CLASS 150 BRASS Y - STRAINER NPT ENDS

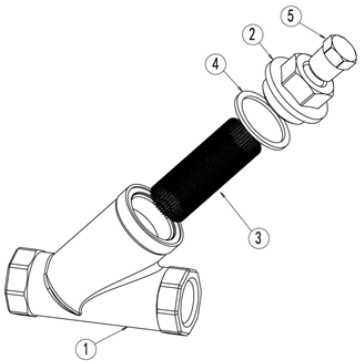
Features:

- Screw-in Cap, Brass body & bonnet, Stainless Steel Strainer, NPT ends.
  Valves comply to: MSS SP-25
- Working pressure: 150 WOG
- Threaded ends to: ANSI B1.20.1



Material List:

No.	Part Name	Specification
1	Body	Brass
2	Bonnet	Brass
3	Strainer	Stainless Steel
4	Spring Seal	PTFE
5	End Cap	Brass



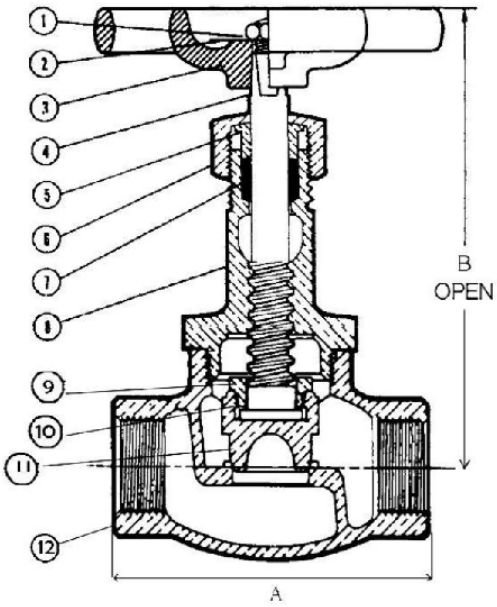
Dimensions:

Size			L		L1		Weight	
in	mm	D	in	mm	in	mm	lbs.	kg
½	15	Ø16	3.13	79.5	0.39	10	0.64	0.3
¾	20	Ø19	3.43	87	0.6	15	0.89	0.4
1	25	Ø25	4.1	104	0.63	16	1.52	0.7
1 ¼	32	Ø33	1.9	124.5	0.75	19	2.51	1.15
1 ½	40	Ø39	5.6	142	0.83	21	3.22	1.45
2	50	Ø51	6.7	170	0.94	24	4.89	2.2

FIG. 112T: CLASS 125 BRONZE GLOBE VALVE THREADED ENDS SCREW-IN BONNET INTEGRAL SEAT

Features:

- Valves conform to: MSS SP-80
- 125 PSI/8.6 Bar Saturated Steam to 353° F / 178° C
- 200 PSI/13.8 Bar Non-Shock Cold Working Pressure
- Renewable Seat Disc



Materials:

No.	Part Name	Specification
1	Handwheel Nut	300 Series Stainless Steel
2	Identification Plate	Aluminum
3	Handwheel	Malleable Iron ASTM A 47
4	Stem	ASTM B371 ALLOY C69430
5	Packing Gland*	ASTM B16 ALLOY C36000
6	Packing Nut	ASTM B16 ALLOY C36000
7	Packing*	Aramid Fibers with Graphite
8	Bonnet	Bronze ASTM B 62
9	Disc Holder Nut	ASTM B62 ALLOY C83600
10	Disc Holder	Bronze ASTM B 62
11	Seat Disc	Bronze ASTM B62
12	Body	Bronze ASTM B62

* Packing Gland only in sizes ¾"-3"

* Packing only in sizes ½"

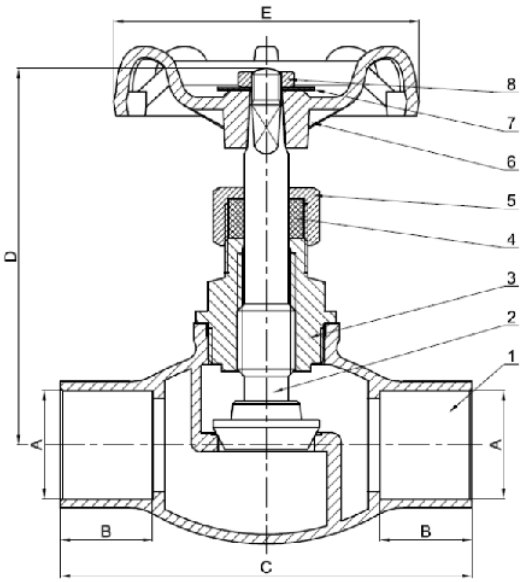
Dimension:

Size		A		B		Weight	
in	mm	in	mm	in	mm	lb	kg
½	15	2.56	65	3.38	86	1.03	0.47
¾	20	3.06	78	4.88	124	1.73	0.79
1	25	3.69	94	5.69	145	2.85	1.29
1 ¼	32	4.31	110	6.13	156	3.79	1.72
1 ½	40	4.69	119	7.38	187	5.9	2.68
2	50	5.63	143	7.94	202	8.68	3.94
2 ½	65	6.63	168	10.19	259	15.4	6.98
3	80	7.75	197	11.19	284	22.44	10.18

FIG. 112: CLASS 150 BRONZE GLOBE VALVE SOLDER JOINT ENDS UNION BONNET TEFLON DISC

Features:

- Rising stem, indicates open or closed valve
- Union bonnet, leak-free at higher pressure and/or temperature
- Sure-grip Handwheel for tight and easy operation
- Valve is made of ASTM registered material substantiates long-life service
- Valves conform to: MSS SP-80, Type 2
- 300# Cold Working Pressure
- Union Bonnet
- Renewable PTFE disc
- Integral seats



Materials:

No.	Part Name	Specification
1	Body	C83600
2	Stem	HPb57-3
3	Bonnet	C83600
4	Packing	Graphite
5	Packing Nut	HPb57-3
6	Handwheel (red)	HT 150
7	Identification Plate	Al
8	Handwheel Nut	Q235

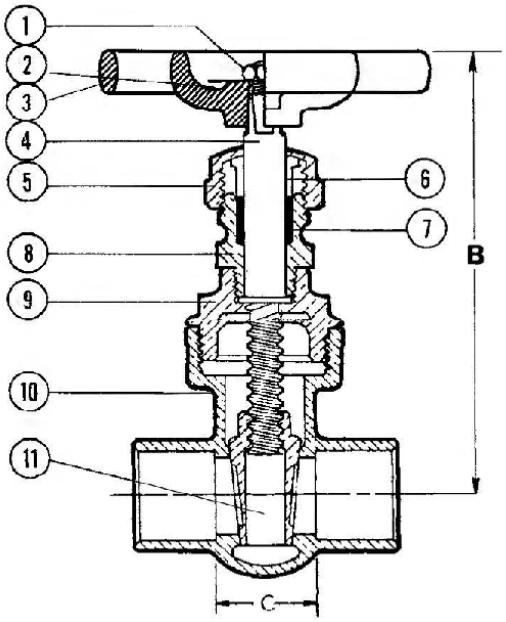
Dimension:

Size		ØA		B		C		D		ØE		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
¾	20	0.88	22.33	0.75	19.05	3.35	85	3.06	77.6	2.48	63	1.05	0.47
1	25	1.13	28.7	0.91	23.2	3.9	99	3.15	80.1	2.48	63	1.4	0.63

FIG. 113C: CLASS 125 BRONZE GATE VALVE SOLDER JOINT ENDS SCREW-IN BONNET NON-RISING STEM SOLID WEDGE

Features:

- Valves comply to: MSS SP-80
- 125PSI/8.6 Bar Saturated Steam to 353° F/ 178° C
- 200 PSI/13.8 Bar Non-Shock Cold Working Pressure



Materials:

No.	Part Name	Specification
1	Handwheel nut	Malleable Iron ASTM A 47
2	Name plate	Aluminum
3	Handwheel	Malleable Iron ASTM A 47
4	Stem	ASTM B99 Alloy C65100
5	Packing nut	Brass ASTM B16 C39600
6	Packing Gland	Brass ASTM B16 C39600
7	Packing	Aramid Fibers with Graphite
8	Stuffing Box	Bronze ASTM B 62
9	Bonnet	Bronze ASTM B 62
10	Body	Bronze ASTM B 62
11	Wedge	Bronze ASTM B 62

Dimension:

Size		A		B		C		Weight	
in	mm	in	mm	in	mm	in	mm	lb	kg
½	15	1.94	49	3.63	92	0.75	19	0.67	0.31
¾	20	2.06	54	3.91	99	0.88	22	0.99	0.45
1	25	2.44	62	4.69	119	1	25	1.6	0.72
1 ¼	32	2.63	67	5.22	133	1.19	32	2.25	1.02
1 ½	40	2.88	72	6.25	159	1.25	33	3.17	1.44
2	50	3.06	78	7.06	179	1.31	34	4.6	2.09
2 ½	65	4.13	105	8.41	224	1.81	46	8.78	3.98
3	80	4.5	114	10	254	1.94	49	12.84	5.82

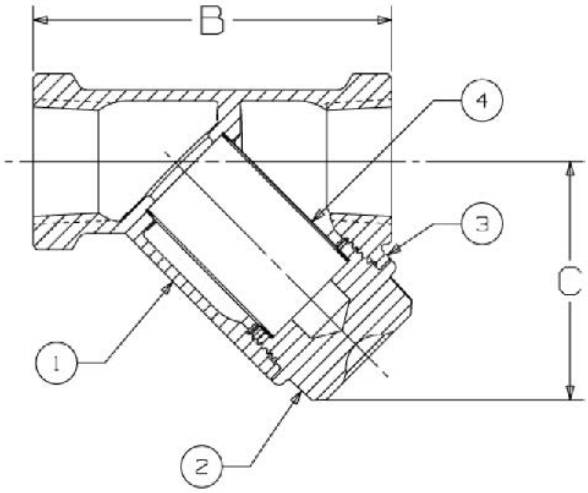
FIG. 115T: CLASS 125 BRONZE Y PATTERN STRAINER SCREW-IN CAP SOLID CAP STAINLESS STEEL SCREEN NPT ENDS

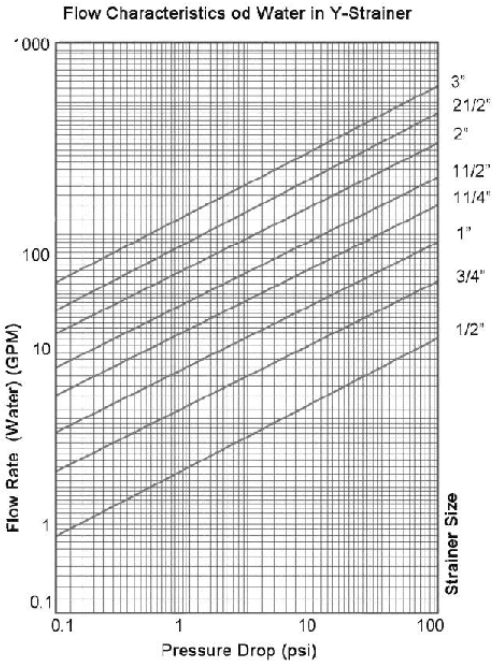
Features:

- Conforms to ANSI B1.20.1
- Working Pressure:
  - 125 PSI/8.6 Bar Saturated Steam to 353° F/178° C
  - 200 PSI/13.8 Bar Non-Shock Cold Working Pressure

Materials:

No.	Part Name	Specification
1	Body	Bronze ASTM B62 Alloy C83600
2	Cap	Bronze ASTM B62 Alloy C83600
3	Gasket	PTFE
4	Screen	ASTM E2016 20 Mesh- 304 Stainless Steel





Dimension:

Size		B		C		Weight	
in	mm	in	mm	in	mm	lb	kg
½	15	2.53	64	1.79	46	0.81	0.37
¾	20	3.25	83	2.15	55	1.13	0.51
1	25	3.77	96	2.82	72	1.85	0.84
1 ¼	32	4.56	116	3.25	83	2.96	1.34
1 ½	40	5.24	133	3.63	92	4.47	2.03
2	50	5.95	151	5	127	7.43	3.37
2 ½	65	7.98	203	5.7	145	14.94	6.78
3	80	9.28	236	6.52	166	21.68	9.84

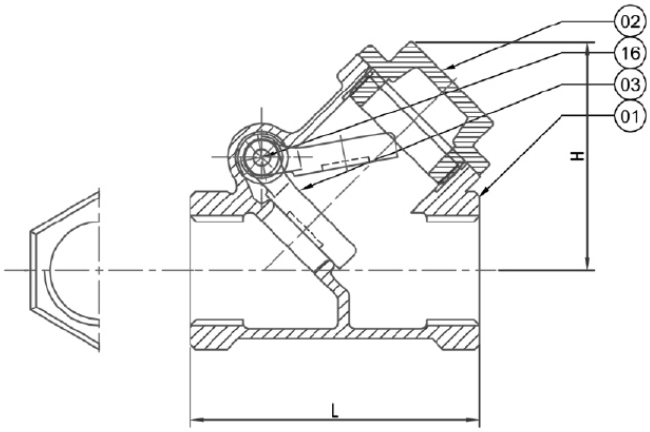
FIG. 122T: CLASS 125 BRONZE Y PATTERN SWING CHECK VALVE NPT ENDS

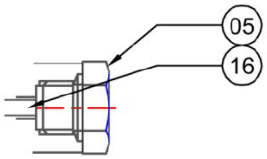
Features:

- Horizontal Swing type, NPT Ends, Screw Cap, Bronze Body, Disc and Bonnet
- Threaded Ends: ANSI B1.20.1
- 200 PSI non Shock - cold water, oil or gas
- 125 PSI Saturated Steam
- Test pressure: shell (hydro) 300PSI, Seat (hydro) 80PSI
- SS 304 Hinge Pin for 2 ½”-4"

Materials:

No.	Part Name	Specification
1	Body	Bronze C84400
2	Bonnet	Bronze C84400
3	Disc	Bronze C84400
5	Side Plug	Brass C36000
16	Hinge Pin	Brass C36000 - ¼"-2” SS 304 – 2 ½”-4”





Dimension:

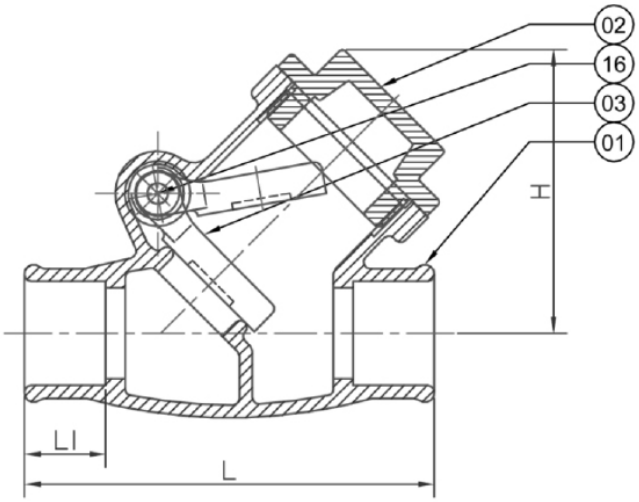
Size		H		L		Weight	
in	mm	in	mm	in	mm	lbs.	kg.
½	15	1.69	43	2.17	55	0.55	0.25
¾	20	2	51	2.6	66	0.78	0.35
1	25	2.4	61	3.15	80	1.22	0.55
1 ¼	32	2.8	71	3.62	92	1.74	0.8
1 ½	40	3.15	80	4.33	110	2.5	1.15
2	50	3.75	95	5.04	128	3.79	1.7
2 ½	65	4.85	123	6.14	156	7.72	3.5
3	80	5.5	140	7.1	180	10.74	4.8
4	100	6.9	175	9.1	230	17.87	8.1

FIG. 122C

CLASS 125 BRONZE Y PATTERN SWING CHECK VALVE SOLDER JOINT ENDS

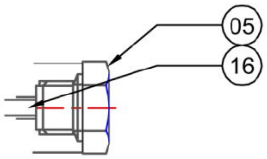
Features:

- Horizontal Swing type, Solder Joint Ends, Screw Cap, Bronze Body, Disc and Bonnet
- Solder Joint Ends: ANSI B16.18
- 200 PSI non Shock - cold water, oil or gas
- 125 PSI Saturated Steam
- Test pressure: shell (hydro) 300PSI, Seat (hydro) 80PSI
- SS 304 Hinge Pin for 2 ½"-4"



Materials:

No.	Part Name	Specification
1	Body	Bronze C84400
2	Bonnet	Bronze C84400
3	Disc	Bronze C84400
5	Side Plug	Brass C36000
16	Hinge Pin	Brass C36000 - ¼"-2" SS 304 – 2 ½"-4"



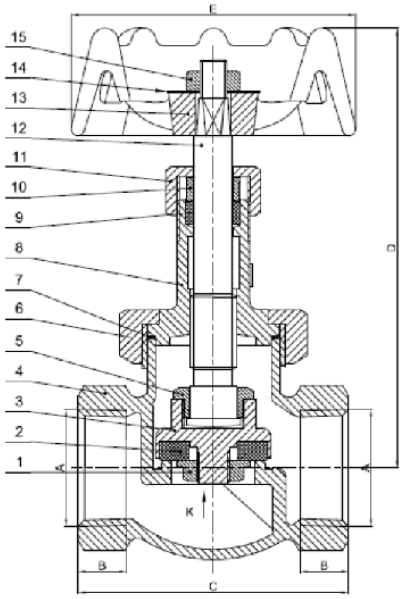
Dimension:

Size		H		L		L1		Weight	
in	mm	in	mm	in	mm	in	mm	lbs.	kg.
½	15	1.7	43	2.17	55	0.49	12.5	0.52	0.25
¾	20	2	51	2.6	66	0.75	19	0.88	0.4
1	25	2.4	61	3	80	0.91	23	1.33	0.6
1 ¼	32	2.8	71	3.62	92	0.96	24.5	2.04	0.9
1 ½	40	3.15	80	4.33	110	1.1	28	2.78	1.3
2	50	3.74	95	5.04	128	1.34	34	4.58	2.1
2 ½	65	4.85	123	6.14	156	1.48	37.5	6.1	2.8
3	80	5.5	140	7.09	180	1.65	42	10.5	4.75

FIG. 109U: CLASS 150 BRONZE GLOBE VALVE NPT ENDS UNION BONNET TEFLON DISC

Features:

- Class 150, NPT ends, Union bonnet, B62 Bronze body, Teflon disc.
- Rising stem, indicates open or closed valve
- Union bonnet, leak-free at higher pressure and/or temperature
- Sure-grip Handwheel for tight and easy operation
- Valve is made of ASTM registered material substantiates long-life service
- Valves conform to: MSS SP-80
- Valves conform to: MSS SP-25
- 150 PSI/10.3 Bar Saturated Steam to 366° F/185°
- 300 PSI/20.7 Bar Non-Shock Cold Working Pressure
- Threaded ends per ANSI B1.20.1
- Union Bonnet
- Renewable PTFE disc
- Integral seats



Materials:

No.	Part Name	Specification
1	Disc Nut	ASTM B62/C83600
2	Seat Disc	PTFE
3	Disc Holder	ASTM B16/B62/C83600
4	Body	ASTM B62/C83600
5	Packing Nut	ASTM B16/ HPb57-3
6	Union Bonnet Nut	C83600
7	Washer	Red Paper
8	Bonnet	ASTM B62C83600
9	Packing	PTFE
10	Packing Gland	ASTM B16/HPb57-3
11	Packing Nut	ASTM B16I/HPb57-3
12	Stem	Navel Brass B21M/HPb57-3
13	Handwheel (green)	A126B Cast Iron/HT 150
14	Identification Plate	Al
15	Handwheel Nut	Q235

Dimension:

Size		B		C		D		E		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
1	25	0.55	14	3.03	77	4.8	122	3.15	80	2.16	0.98
2	50	0.79	20	4.82	122.5	6.63	168.5	4.33	110	7.05	3.2

200 & 150 WOG WAFER/LUG STYLE BUTTERFLY VALVE – Numbering System

Figure: BW & BL-1000 Series
Figure: BW & BL-2000 Series
Figure: BW & BL-4000 Series

To make a figure number for ordering purposes, please use the following chart to understand the various trims as they relate to the figure number. Please ensure that the trims ordered are suitable for the service. As some combinations are seldom used, please confirm with your local stocking distributor of KVC Butterfly valves as to the delivery availability on non-stock items.

Example: Fig. BW-1000-11DBL06 is a 6" wafer style butterfly valve with a nickel plated ductile iron disc, 410 stainless steel stem, Buna-N seat and a lever handle.

Note: all valves in the 1000 series are rated at 200 psi bubble tight shut-off and come with cast iron bodies as standard.
Note: all valves in the 2000 series are rated at 150 psi bubble tight shut-off and come with ductile iron bodies as standard.
Note: all valves in the 4000 series are rated at 200 psi bubble tight shut-off and come with cast iron bodies as standard.

Body	Base #	Disc	Stem	Seat	Operator	Size	Special
BW	**- 1000**	**-1**	**1**	**DB**	**L**	**6"**	**__**

Body

- BW – Wafer
- BL – Lug

1000 – base series model
2000 – base series model
4000 – base series model

Disc

1. Nickel Plated Ductile iron
2. 316 Stainless steel
3. Nylon coated
4. Aluminum bronze
5. PTFE coated
6. EPDM coated
7. 304 Stainless steel

Stem

1. 410 Stainless steel
2. 316 Stainless steel
3. 304 Stainless steel

Seat

DB – Buna-N (NBR)
DN – Neoprene DE – EPDM
DH – Hypalon
DTB – Teflon/Buna-N DTE – Teflon/EPDM DV – Viton

Note: The 2000 & 4000 series seats are the main seating material (ie: EPDM) bonded to a phenolic backing ring to make it a slide-in cartridge.

Operator

L – Lever
G – Gear
B – Bare stem
A – Actuated
I – Infinite adjustable lever

FIG. BW-1000 200 WOG WAFER STYLE BUTTERFLY VALVE - LEVER HANDLE / GEAR OPERATOR

Features:

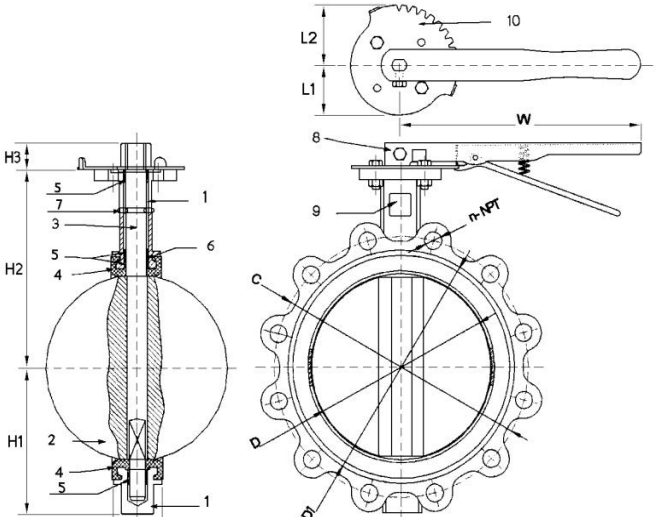
- Valves meet MSS-SP67 & API 609
- Flange drilling to: ANSI B16.1 Class 125/150 Testing to: API 598

Test Pressures	Shell: 300 psi
	Seat: 220 psi

Materials List:

No.	Part Name	BW-1000-11 DBL/DEL	BW-1000-22 DBL/DEL
1	Body	Cast Iron	Cast Iron
2	Disc	Ductile Iron*	CF8M SS 316
3	Stem	SS 410	SS 410
4	Seat	Buna-N/EPDM	Buna-N/EPDM
5	Bushing	PTFE	PTFE
6	O-Ring	Buna-N	Buna-N
7	Pin	Carbon Steel	Carbon Steel
8	Hand lever	Malleable Iron	Malleable Iron
9	Name Plate	Aluminum Plate	Aluminum Plate
10	Position	Carbon Steel	Carbon Steel

* Nickel plated



Temperature range of seats	
Material	Range
Buna-N	-12°C~+93°C
EPDM	-30°C~+140°C
Neoprene	-7°C~+107°C
Hypalon	-18°C~+149°C
Viton	-12°C~+140°C
PTFE	-20°C~+121°C

Note: Seat materials are capable of withstanding lower temperatures without damage. However, the elastomer becomes hard and torques increase. Some flow media may further restrict the published temperature limits and/or significantly reduce seat life.

Options:

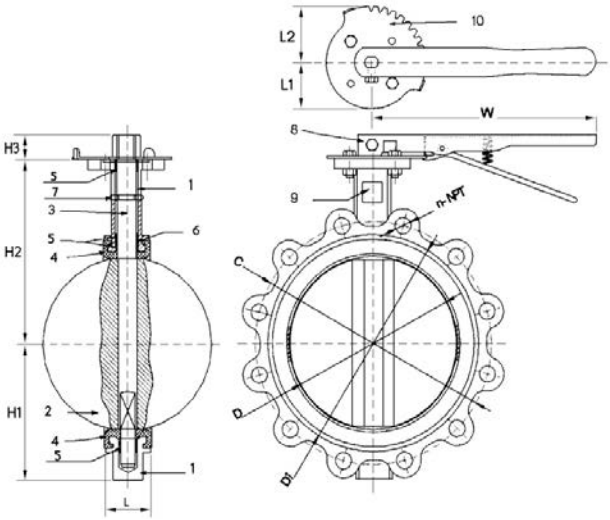
- Seats: Buna-N, EPDM, Hypalon, Viton, Neoprene, PTFE.
- Disc: Nickel plated Ductile iron, nylon coated ductile Iron, aluminum bronze, 316 stainless steel.
- Body: Cast iron, ductile iron.
- Note: Please refer to “Numbering System” sheet to obtain detailed figure numbers.

Caution: All 1000 series valves must be installed in the partial open position. Installing in the full closed position may damage the seat during start up and void any warranties.

Dimensions:

Size		D		L		H1		H2		H3		Flange					L1		L2		W		Weight	
												C		D1		N-Ød								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	in	mm	in	mm	in	mm	lb	kg
2	50	2	51	1.7	43	2.8	71	5.5	140	1.3	33	4.8	120.7	3.7	95	11/16	1.9	50	2.6	67	10.4	265	8.4	3.8
2 ½	65	2.5	62.8	1.8	45.8	3.1	78	6	152	1.3	33	5.5	139.7	4.3	109	11/16	1.9	50	2.6	67	10.4	265	9.25	4.2
3	80	3.1	78	1.8	45.8	3.9	100	6.3	159	1.3	33	6	152.4	5	127	11/16	1.9	50	2.6	67	10.4	265	10.35	4.7
4	100	4	102.5	2	52	4	102	7	178	1.3	33	7.5	190.5	6	152	11/16	1.9	50	2.6	67	10.4	265	19.85	9
5	125	4.8	121.5	2.2	55.5	4.6	118	7.5	191	1.4	37	8.5	215.9	7.2	182	13/16	1.9	50	2.6	67	10.4	265	24.05	10.9
6	150	6	154.2	2.2	55.5	5.1	130	8	204	1.37	35	9.5	241.3	8	207	13/16	1.9	50	2.6	67	10.4	265	31.3	14.2
8	200	7.9	200.9	2.3	59.5	6.4	163	9.4	238	1.7	43	11.8	298.5	10.4	264	13/16	2.7	70	3.4	87	14	357	40.1	18.2
10	250	9.8	248.9	2.6	67.2	7.8	198	10.6	270	1.5	38	14.3	362	12.5	317	15/16	2.7	78	3.5	90	14	357	59.1	26.9
12	300	11.8	300	3	77	9.3	235	12.4	315	1.7	43	17	431.8	14.6	370	15/16	2.7	78	3.5	90	14	357	88.2	40.1

FIG. BL-1000



200 WOG LUG STYLE BUTTERFLY VALVE - LEVER HANDLE

Features:

- Valves meet MSS-SP67 & API 609
- Flange drilling to: ANSI B16.1 Class 125/150 Testing to: API 598

Test Pressures	Shell: 300 psi
	Seat: 220 psi

Materials List:

No.	Part Name	BW-1000-11 DBL/DEL	BW-1000-22 DBL/DEL
1	Body	Cast Iron	Cast Iron
2	Disc	Ductile Iron*	CF8M SS 316
3	Stem	SS 410	SS 410
4	Seat	Buna-N/EPDM	Buna-N/EPDM
5	Bushing	PTFE	PTFE
6	O-Ring	Buna-N	Buna-N
7	Pin	Carbon Steel	Carbon Steel
8	Hand lever	Malleable Iron	Malleable Iron
9	Name Plate	Aluminum Plate	Aluminum Plate
10	Position	Carbon Steel	Carbon Steel

* Nickel plated

Temperature range of seats	
Material	Range
Buna-N	-12°C~+93°C
EPDM	-30°C~+140°C
Neoprene	-7°C~+107°C
Hypalon	-18°C~+149°C
Viton	-12°C~+140°C
PTFE	-20°C~+121°C

Note: Seat materials are capable of withstanding lower temperatures without damage. However, the elastomer becomes hard and torques increase. Some flow media may further restrict the published temperature limits and/or significantly reduce seat life.

Options:

- Seats: Buna-N, EPDM, Hypalon, Viton, Neoprene, PTFE.
- Disc: Nickel plated Ductile iron, nylon coated ductile Iron, aluminum bronze, 316 stainless steel.
- Body: Cast iron, ductile iron.
- Note: Please refer to “Numbering System” sheet to obtain detailed figure numbers.

Caution: All 1000 series valves must be installed in the partial open position. Installing in the full closed position may damage the seat during start up and void any warranties.

Dimensions:

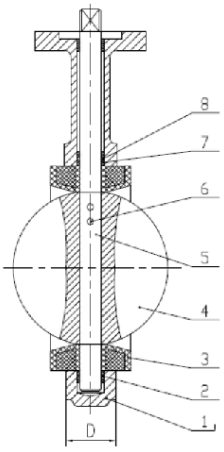
Size		D		L		H1		H2		H3		Flange					L1		L2		W		Weight	
												C		D1		n-NPT								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	in	mm	in	mm	in	mm	lb	kg
2	50	2	51	1.7	43	2.8	71	5.5	140	1.3	33	4.8	120.7	3.7	95	4 5/8	1.9	50	2.6	67	10.4	265	9.5	4.3
2 ½	65	2.5	62.8	1.8	45.8	3.1	78	6	152	1.3	33	5.5	139.7	4.3	109	4 5/8	1.9	50	2.6	67	10.4	265	12	5.5
3	80	3.1	78	1.8	45.8	3.9	100	6.3	159	1.3	33	6	152.4	5	127	4 5/8	1.9	50	2.6	67	10.4	265	12	5.6
4	100	4	102.5	2	52	4	102	7	178	1.3	33	7.5	190.5	6	152	8 5/8	1.9	50	2.6	67	10.4	265	21	9.4
5	125	4.8	121.5	2.2	55.5	4.6	118	7.5	191	1.4	37	8.5	215.9	7.2	182	8 3/4	1.9	50	2.6	67	10.4	265	28	12.7
6	150	6	154	2.2	55.5	5.1	130	8	204	1.37	35	9.5	241.3	8	207	8 3/4	1.9	50	2.6	67	10.4	265	29	13.1
8	200	7.9	201	2.3	59.5	6.4	163	9.4	238	1.7	43	11.8	298.5	10.4	264	8 3/4	2.7	70	3.4	87	14	357	43	19.5
10	250	9.8	249	2.6	67.2	7.8	198	10.6	270	1.5	38	14.3	362	12.5	317	12 7/8	2.7	78	3.5	90	14	357	63	28.5
12	300	11.8	300	3	77	9.3	235	12.4	315	1.7	43	17	431.8	14.6	370	12 7/8	2.7	78	3.5	90	14	357	92	42

FIG.BW-2000-22DVL-S6 Series 200 WOG WAFER STAINLESS STEEL BUTTERFLY VALVE – Lever Handle

Features:

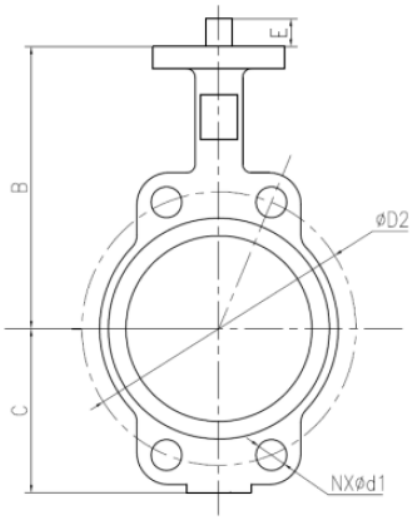
- Valves meet MSS-SP67 & API 609
- Flange drilling to: ANSI B16.1 Class 125/150 Testing to: API 598

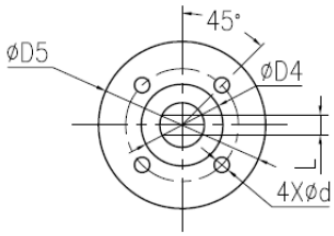
Test Pressures	Shell: 300 psi
	Seat: 220 psi



Materials List:

No.	Part Name	Specifications
1	Body	SS316
2	Bushing(Long)	PTFE
3	Seat	VITON
4	Disc	SS316
5	Stem	SS316
6	Pin	SS316
7	Bushing(Short)	PTFE
8	O-Ring	VITON





Temperature range of seats	
Material	Range
Buna-N	-12° C~+93° C
EPDM	-30° C~+140° C
Neoprene	-7° C~+107° C
Hypalon	-18° C~+149° C
Viton	-12° C~+140° C
PTFE	-20° C~+121° C

Note: Seat materials are capable of withstanding lower temperatures without damage. However, the elastomer becomes hard and torques increase. Some flow media may further restrict the published temperature limits and/or significantly reduce seat life.

Options:

- **Seats**: Viton
- **Disc**: 316 stainless steel.
- **Body**: 316 Stainless Steel.

Note: Please refer to "Numbering System" sheet to obtain detailed figure numbers.

Caution: All 2000 series valves must be installed in the partial open position. Installing in the full closed position may damage the seat during start up and void any warranties.

Dimensions:

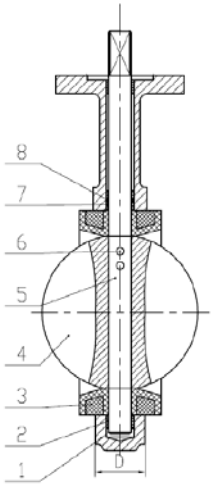
Size		D2		D4		D5		B		C		D		E		4Xød		L	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	in	mm
2	50	4.79	120.6	1.38	35	2.56	65	6.14	156	3.15	80	1.66	42.04	1.26	32	15.43	7	0.39	10
2 ½	65	5.5	139.7	1.38	35	2.56	65	6.38	162	3.5	89	1.76	44.68	1.26	32	15.43	7	0.39	10
3	80	6	152.4	1.38	35	2.56	65	6.69	170	3.74	95	1.78	45.21	1.26	32	15.43	7	0.39	10
4	100	7.5	190.5	2.17	55	3.54	90	7.28	185	4.49	114	2.05	52.07	1.26	32	22.05	10	0.47	12
5	125	8.5	215.9	2.17	55	3.54	90	8.15	207	5	127	2.14	54.36	1.26	32	22.05	10	0.55	14
6	150	9.5	241.3	2.17	55	3.54	90	8.5	216	5.47	139	2.19	55.75	1.26	32	22.05	10	0.55	14
8	200	11.75	298.5	2.76	70	4.92	125	10.08	256	6.89	175	2.39	60.58	1.77	45	26.46	12	0.67	17
10	250	14.25	361.9	2.76	70	4.92	125	9.76	248	7.99	203	2.58	65.63	1.77	45	26.46	12	0.87	22
12	300	17	431.8	2.76	70	4.92	125	11.02	280	9.53	242	3.03	76.9	1.77	45	26.46	12	0.94	24

FIG. BL-2000-22DVL-S6 Series 200 WOG LUG STAINLESS STEEL BUTTERFLY VALVE LEVER HANDLE

Features:

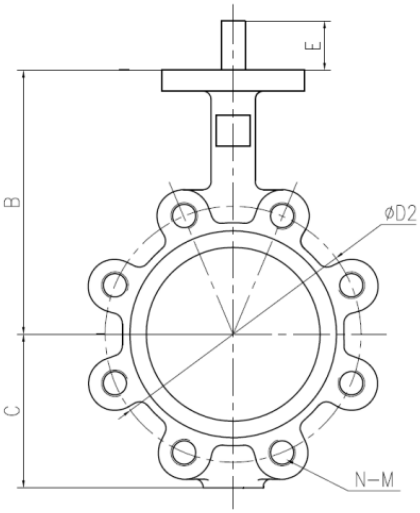
- Valves meet MSS-SP67 & API 609
- Flange drilling to: ANSI B16.1 Class 125/150 Testing to: API 598

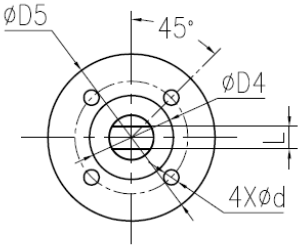
Test Pressures	Shell: 300 psi
	Seat: 220 psi



Materials List:

No.	Part Name	Specifications
1	Body	SS316
2	Bushing(Long)	PTFE
3	Seat	VITON
4	Disc	SS316
5	Stem	SS316
6	Pin	SS316
7	Bushing(Short)	PTFE
8	O-Ring	VITON





Temperature range of seats	
Material	Range
Buna-N	-12° C~+93° C
EPDM	-30° C~+140° C
Neoprene	-7° C~+107° C
Hypalon	-18° C~+149° C
Viton	-12° C~+140° C
PTFE	-20° C~+121° C

Note: Seat materials are capable of withstanding lower temperatures without damage. However, the elastomer becomes hard and torques increase. Some flow media may further restrict the published temperature limits and/or significantly reduce seat life.

Options:

- **Seats**: Viton
- **Disc**: 316 stainless steel.
- **Body**: 316 Stainless Steel.

Note: Please refer to "Numbering System" sheet to obtain detailed figure numbers.

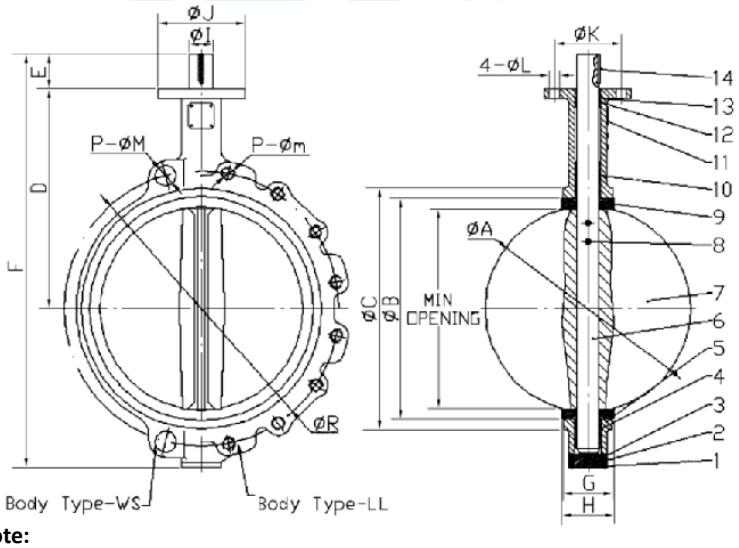
Caution: All 2000 series valves must be installed in the partial open position. Installing in the full closed position may damage the seat during start up and void any warranties.

Dimensions:

Size		D2		D4		D5		N-M		B		C		D		E		4Xød		L	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	in	mm
2	50	4.79	120.6	1.38	35	2.56	65	4.63	117.6	6.14	156	3.15	80	1.66	42.04	1.26	32	15.43	7	0.39	10
2 ½	65	5.5	139.7	1.38	35	2.56	65	4.63	117.6	6.38	162	3.5	89	1.76	44.68	1.26	32	15.43	7	0.39	10
3	80	6	152.4	1.38	35	2.56	65	4.63	117.6	6.69	170	3.74	95	1.78	45.21	1.26	32	15.43	7	0.39	10
4	100	7.5	190.5	2.17	55	3.54	90	8.63	219.2	7.28	185	4.49	114	2.05	52.07	1.26	32	22.05	10	0.47	12
5	125	8.5	215.9	2.17	55	3.54	90	8.75	222.3	8.15	207	5	127	2.14	54.36	1.26	32	22.05	10	0.55	14
6	150	9.5	241.3	2.17	55	3.54	90	8.75	222.3	8.5	216	5.47	139	2.19	55.75	1.26	32	22.05	10	0.55	14
8	200	11.75	298.5	2.76	70	4.92	125	8.75	222.3	10.08	256	6.89	175	2.39	60.58	1.77	45	26.46	12	0.67	17
10	250	14.25	361.9	2.76	70	4.92	125	12.88	327.2	9.76	248	7.99	203	2.58	65.63	1.77	45	26.46	12	0.87	22
12	300	17	431.8	2.76	70	4.92	125	12.88	327.2	11.02	280	9.53	242	3.03	76.9	1.77	45	26.46	12	0.94	24

FIG. 2000 Series

Large Diameter – Wafer & Full Lug Cast Iron Butterfly Valve



Features:

- Valves meet MSS-SP67 & API 609
- Flange drilling to: ANSI B16.1 Class 125/150
- Testing to: API 598

Test Pressures	Shell: 225 psi
	Seat: 165 psi

Materials List:

No.	Part Name	BW-2000-11DBG BL-2000-11DBG	BW-2000-22DEG BL-2000-22DEG
1	Screw	Carbon Steel	Carbon Steel
2	Bottom Cover	Ductile Iron	Ductile Iron
3	O-ring	Buna-N	Buna-N
4	Lower Bushing	PTFE	PTFE
5	Body	Ductile Iron	Ductile Iron
6	Stem	SS410	SS410
7	Disc	Ductile Iron	CF8M SS316
8	Tap Pin	Carbon Steel	Carbon Steel
9	Seat Cartridge	Buna-N w/Phenolic Backing Ring	EPDM
10	Mid Bushing	PTFE	PTFE
11	Nameplate	Carbon Steel	Carbon Steel
12	Upper Bushing	PTFE	PTFE
13	O-Ring	Buna-N	Buna-N
14	Key	Carbon Steel	Carbon Steel

Temperature range of seats	
Material	Range
Buna-N	-12° C~+93° C
EPDM	-30° C~+140° C
Neoprene	-7° C~+107° C
Hypalon	-18° C~+149° C
Viton	-12° C~+140° C

Note:

All seats are a cartridge style with the “rubber” bonded to a phenolic backing ring for support.

Please refer to the Numbering System guide, 2000 series, to establish a figure number for ordering.

Seat materials are capable of withstanding lower temperatures without damage. However, the elastomer becomes hard and torques increase.

Some flow media may further restrict the published temperature limits and/or significantly reduce seat life.

Options:

- **Disc**: Nickel plated ductile iron, Aluminum bronze, 304SS, 316SS, WCB, Nylon coated DI, PTFE coated DI.
- **Body**: Cast iron, ductile iron, WCB, 304SS, 316SS, Aluminum bronze.
- **Seat**: Buna-N, EPDM, Viton, PTFE, Hypalon, Neoprene.
- **Stem**: 416SS, 431SS, 410SS, 316SS.

Dimensions:

Size		A		Min		B		C		D		E		F		G		H	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
14	350	13.1	333.3	12.7	322	14.8	375.1	15.9	405	14.5	368	1.77	45	26.8	680	3.01	76.5	3.13	79.5
16	400	15.3	389.6	14.9	379.1	17.3	439.5	18.5	470	15.7	400	2.83	72	30.7	780.6	3.37	85.7	3.54	90
18	450	17.3	440.5	16.8	426.8	19.3	490.5	20.5	521	16.6	422	2.83	72	32.3	821.6	4.12	104.6	4.29	109
20	500	19.5	491.6	18.6	472.7	21.1	535.4	22.2	565	18.9	480	3.23	82	36.1	916	5.13	130.3	5.31	135
24	600	23.3	592.5	22.5	571.6	25.7	654	27.3	693	22.1	562	3.23	82	43.4	1102.7	5.96	151.4	6.14	156
30	750	27.7	703.6	28.2	716.3	31.1	789.9	34.1	866	25.5	648	2.6	66	51.8	1315.7	6.59	167.4	6.77	172

Size		ØI		ØJ		ØK		ØL		P		P-m	P-M	R		Weight LL		Weight WS	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	in	in	mm	lb	kg	lb	kg
14	350	1.24	31.6	5.51	140	4.02	102	4-.47	12	0.63	16	1	1 ⅛	18.1	460	123	56	91	41.3
16	400	1.5	38	7.76	197	5.51	140	4-.71	18	0.63	16	1	1 ⅛	20.3	515	215	97.7	139	63
18	450	1.69	42.9	7.76	197	5.51	140	4-.71	18	0.79	20	1 ⅛	1 ¼	22.2	565	272	123.8	178	80.7
20	500	1.8	45.7	7.76	197	5.51	140	4-.71	18	0.79	20	1 ⅛	1¼	24.4	620	448	203.7	286	129.8
24	600	2.13	54	10.87	276	6.5	165	4-.87	22	0.79	20	1 ¼	1 ⅜	28.5	725	602	273.5	422	191.6
30	750			11.81	300	10	254	8-.71	18	0.79	20	1 ¼	1 ⅜	36	914	814	370	760	345.5

Seating & Unseating Torques KVC models 1000 & 2000

The seating and unseating torque anticipated in butterfly valves varies widely with service conditions. Factors affecting torque are as follows:

1. **Operating frequency**
   The first opening after a sustained period of closure is the tough one.

2. **Media Lubricating Characteristics**
   Water is probibily the best all round lubricant for metal-elastomer contact. Is the service completely dry? Seat compounds contain some lubricant. Is it extracted in service?

Lubricating	Non-Lubrication
Water	Air – dry gases
Aqueous process streams	Dry powders, pellets
Lubricating oils i.e.: diesel oil, JP fuels	Industrial solvents ie: acetone, ethyl acetate

3. **Condition of disc edge**
   Is it an iron disc in corrosive service? Iron discs in uninhibited water corrode, the edge roughens and corrosion deposits build up. Is there an anticipated deposit on seating surfaces – calcium in a hard water system – various salts in sea water?

4. **Temperature – High or Low**
   Operating temperatures approaching the upper limits of the seat material tend to increase its hardness over a sustained period. Temperatures approaching the lower limits of seat material raise its hardness immediately. Both conditions increase operating torque.

   Anticipated Torque increase: EPDM – above 100°C (212°F) – below -18°C (0°F).
   Buna-N – above 82°C (180°F) – below 0°C (32°F).

5. **Chemical attack on seat material causing swelling**
   Increased interference and torque results.

The following torque tables are based upon “Normal” and “Severe” conditions and are shown as in/lbs:

Normal Conditions:

- Operating frequency at least once a month.
- Lubricating media – aqueous liquid.
- Disc corrosion – mild w/ minor deposition.
- Temperature within material limits.
- Chemical effect on seat – minor.

Torque values provided for normal conditions may incorporate a factor of two over shop tests in establishing frictional resistance of media exposed elements. Experience has indicated that selection of actuators based upon normal condition values provide satisfactory results.

Severe Conditions:

- Operating frequency – indefinitely long.
- Non-lubricating media – air, dry gas, cement powder.
- Disc corrosion – severe (iron in uninhibited water).
- Temperature possibly outside recommended limits.
- Chemical effects on elastomer unknown.

Seating & Unseating Torques KVC models 1000 & 2000

Torque values provided for severe conditions incorporate a factor of three over shop tests in establishing frictional resistance of media exposed elements. Caustic cleaning is a typical Severe application.

In selecting actuators under Severe conditions, it is also necessary to compare “Anticipated Seating & Unseating Torque” with “Allowable Operating Torque” on the valve. This is especially important in power actuators not equipped with speed controls where impact loading may occur.

Normal Conditions:

Valve Size		Pressure Differential ΔP		
		100	150	200
2	50	71	80	97
2 ½	65	115	133	159
3	80	177	204	239
4	100	283	310	398
5	125	451	531	620
6	150	726	885	974
8	200	1239	1487	1947
10	250	2036	2478	3363
12	300	2832	3186	4425
14	350	4248	5310	8487
16	400	6284	8143	13272
18	450	8851	11064	17700
20	500	10621	14160	22128
24	600	17700	23016	36288

Severe Conditons:

Valve Size		Pressure Differential ΔP		
		100	150	200
2	50	94	106	129
2 ½	65	153	177	211
3	80	235	271	318
4	100	377	412	529
5	125	600	706	825
6	150	966	1177	1295
8	200	1648	1978	2590
10	250	2708	3296	4473
12	300	3767	4237	5885
14	350	5650	7062	11288
16	400	8358	10830	17652
18	450	11772	14715	23541
20	500	14126	18833	29430
24	600	23541	30611	48263

If pressure differential (ΔP) is not known, use full rated pressure capability of the valve. Dynamic torque values are not considered in the above table.
For 3-way valve assemblies where one valve is opening and another is closing, multiply toque by a 1.5 factor.

Studs & Bolts for Mounting Butterfly Valves 2” to 24” Between ANSI Class 125/150 Flanges

Cap Screws Machine Bolts Stud Bolts

Note: Cap screws must be short enough to ensure that they do not touch each other after tightening to avoid cracking the lug.

TABLE I

Wafer body valve using Heavy Hex Machine bolts with 1 Heavy Hex nut each														
	2”	2 ½”	3”	4”	5”	6”	8”	10”	12”	14”	16”	18”	20”	24”
Diameter	⅝	⅝	⅝	⅝	¾	¾	¾	⅞	⅞	1	1	1 ⅛	1 ⅛	1 ¼
Length	4 ¼	4 ½	4 ¾	5	5 ¼	5 ¼	6	6 ¼	6 ¾	7 ¼	8 ¼	9	10	12
Quantity	4	4	4	8	8	8	8	12	12	12	16	16	20	20

TABLE II

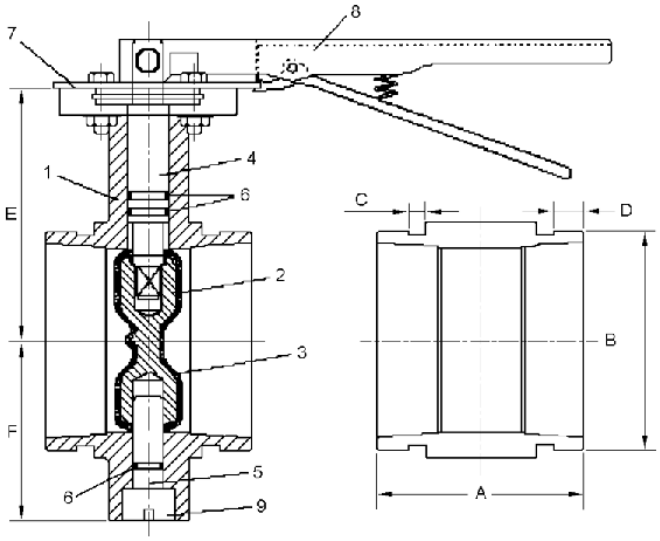
Wafer body valve using Stud Bolts or All Thread cross bolting with 2 Heavy Hex nut each														
	2”	2 ½”	3”	4”	5”	6”	8”	10”	12”	14”	16”	18”	20”	24”
Diameter	⅝	⅝	⅝	⅝	¾	¾	¾	⅞	⅞	1	1	1⅛	1 ⅛	1 ¼
Length	5	5 ¼	5 ½	5 ¾	6 ¼	6 ¼	7	7 ¼	7 ¾	8 ½	9 ½	10 ¼	11 ¼	13
Quantity	4	4	4	8	8	8	8	12	12	12	16	16	20	20

TABLE III

Lug body valve with Tapped holes using Heavy Hex Cap Screws (National Coarse Threads)														
	2”	2 ½”	3”	4”	5”	6”	8”	10”	12”	14”	16”	18”	20”	24”
Diameter	⅝	⅝	⅝	⅝	¾	¾	¾	⅞	⅞	1	1	1 ⅛	1 ⅛	1 ¼
Length	1 ½	1 ½	1 ¾	1 ¾	1 ¾	1 ¾	2 ¼	2 ¼	2 ½	2 ¾	3 ¼	3 ½	4	4 ¼
Quantity	8	8	8	16	16	16	16	24	24	24	32	32	40	40

FIG.GBV-3000 Series

300 WOG GROOVED END BUTTERFLY VALVE – Lever Handle



Features:

- Valves to MSS-SP67 & API 609
- Valves conform to AWWA C-606
- Maximum operating temperature:
  - EPDM encapsulated disc: 121 °C (250 °F)
  - Buna-N encapsulated disc: 88 °C (190 °F)

Test Pressures	Shell: 450 psi
	Seat: 330 psi

Materials List:

No.	Part Name	Specifications
1	Body	Ductile iron A536
2	Disc	Ductile iron A536
3	Rubber Lining	EPDM aa
4	Upper Stem	Stainless steel A433 410
5	Lower Stem	Stainless steel A433 410
6	O-Ring	Buna-N aa
7	Position Plate*	Carbon steel A27-91 65-35
8	Lever Handle	Malleable iron A47-90 22010
9	Plug	Steel

Temperature range of seats	
Material	Range
Buna-N	-12° C~+93° C
EPDM	-30° C~+140° C
Neoprene	-7° C~+107° C
Hypalon	-18° C~+149° C
Viton	-12° C~+140° C
PTFE	-20° C~+121° C

Options:

- Buna-N lining on disc
- Manual gear operator, electric or pneumatic actuation.

Dimensions:

Size		A		B		C		D		E		F		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	3.2	81	2.4	60	0.31	8	0.63	16	3.3	85	2.2	57	5.9	2.7
2 ½	65	3.8	97	2.9	73	0.31	8	0.63	16	4.2	106	2.6	65	7.5	3.4
3	80	3.8	97	3.5	89	0.31	8	0.63	16	4.4	113	3	75	8.6	3.9
4	100	4.6	116	4.5	114	0.39	10	0.63	16	5.3	135	3.5	90	11.9	5.4
5	125	5.8	148	5.6	141	0.39	10	0.63	16	5.8	148	4.3	110	20	9.1
6	150	5.8	148	6.6	168	0.39	10	0.63	16	7.1	181	4.9	124	23	10.5
8	200	5.3	134	8.6	219	0.43	11	0.75	19	8	204	6.1	155	37.4	17
10	250	6.3	159	10.7	273	0.51	13	0.75	19	9.1	230	7.5	190	84	38.1
12	300	6.5	166	12.8	324	0.51	13	0.75	19	10.6	270	9.1	230	100	45.4

FIG. BW-4000 Series

200 WOG WAFER STYLE BUTTERFLY VALVE – Lever Handle

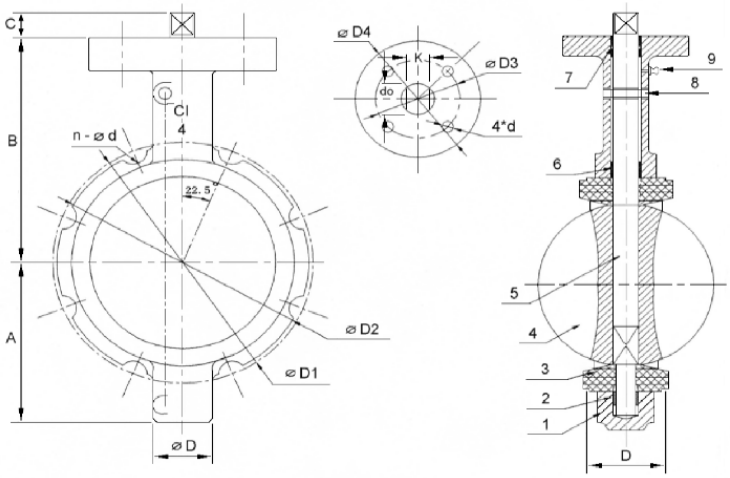
Features:

- Valves meet MSS-SP67 & API 609
- Flange drilling to: ANSI B16.1 Class 125/150
- Testing to: API 598

Test Pressures	Shell: 300 psi
	Seat: 220 psi

Materials List:

No.	Part Name	Specifications
1	Body	A126 Class B Cast Iron
2	Bushing(long)	PTFE
3	Seat**	Buna-N
4	Disc	A 536 Ductile Iron*
5	Stem	A433 410 Stainless Steel
6	Bushing(short)	PTFE
7	O-Ring	Buna-N
8	Spring Pin	65 Mn Carbon steel
9	Grease Fitting	B16 Brass



*Nickel plated

Size		do	K
in	m	mm	mm
2	50	12.6±0.025	10
2 ½	65	12.6±0.025	10
3	80	12.6±0.025	10
4	10	15.77±0.025	12
5	12	18.92±0.025	14
6	15	18.92±0.025	14
8	20	22.10±0.025	17
10	25	28.45±0.025	22
12	30	31.60±0.051	24

Temperature range of seats	
Material	Range
Buna-N	-12° C~+93° C
EPDM	-30° C~+140° C
Neoprene	-7° C~+107° C
Hypalon	-18° C~+149° C
Viton	-12° C~+140° C
PTFE	-20° C~+121° C

Options:

- **Seats**: Buna-N, EPDM, Hypalon, Viton, Neoprene, PTFE.
- **Disc**: *Nickel Plated Ductile iron, Nylon 11 Encapsulated ductile iron, EPDM Encapsulated Ductile iron, Aluminum bronze, 304 & 316 Stainless steel.
- **Body**: Cast iron, Ductile iron & Stainless steel.
- **Stem**: 410SS, 416SS, 304SS, 316SS.

Note: **All seats are a cartridge style with the “rubber” bonded to a phenolic backing ring for support.

Please refer to the Numbering System guide, 4000 series, to establish a figure number for ordering.
Note: Seat materials are capable of withstanding lower temperatures without damage. However, the elastomer becomes hard and torques increase. Some flow media may further restrict the published temperature limits and/or significantly reduce seat life.

Dimensions:

Size		D		ØD		A		B		C		Flange					ØD3		ØD4		4*d		Weight	
												ØD1		ØD2		n-Ød								
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	in	mm	in	mm	in	mm	lb	kg
2	50	1.65	42	1.38	36	2.87	73	3.94	100	1.26	32	4.75	120.6	4.13	105	4 ¾	2.76	70	3.54	90	0.39	10	7.7	3.5
2½	65	1.77	45	1.38	36	3.13	79.5	4.47	113.5	1.26	32	5.5	139.7	4.92	125	4 ¾	2.76	70	3.54	90	0.39	10	8.8	4
3	80	1.78	45.2	1.38	36	3.43	87	4.86	123.5	1.26	32	6	152.4	5.39	137	4 ¾	2.76	70	3.54	90	0.39	10	9.24	4.2
4	100	2.05	52	1.57	40	4.04	102.5	5.98	152	1.26	32	7.5	190.5	7.01	178	8 ¾	2.76	70	3.54	90	0.39	10	12.3	5.69
5	125	2.19	55.5	1.61	41	4.27	108.4	5.87	149	1.26	32	8.5	215.9	7.59	192.7	8 ⅞	2.76	70	3.54	90	0.39	10	13.2	6
6	150	2.19	55.75	1.77	45	5.12	130	6.54	166	1.26	32	9.5	241.3	8.82	224	8 ⅞	2.76	70	3.54	90	0.39	10	18.7	8.5
8	200	2.39	60.58	1.9	48	6.22	158	8.03	204	1.57	40	11.76	298.4	11.1	282	8 ⅞	4.02	102	4.92	125	0.47	12	30.8	14
10	250	2.68	68	2.09	53	7.57	192.2	10.15	257.8	1.57	40	14.25	361.9	13.3	338.4	12 1	4.02	102	4.92	125	0.47	12	50.6	23
12	300	3.02	76.8	2.16	55	9.59	243.6	10.96	278.4	1.57	40	17	431.8	16.6	422.4	12 1	4.02	102	4.92	125	0.47	12	71.5	32.5

CV VALUES for KVC 1000, 2000 & 4000 SERIES BUTTERFLY VALVES

CV is the flow coefficient for valves: expresses flow rate in US gallons per minute of 60° F clean water with a 1.0 psi pressure drop across the valve.

Size		Disc Position (in degrees)								
in	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
2	50	0.1	5	12	24	45	64	90	125	135
2 ½	65	0.2	8	20	37	65	98	144	204	220
3	80	0.3	12	22	39	70	116	183	275	302
4	100	0.5	17	36	78	139	230	364	576	600
5	125	0.8	29	61	133	237	392	620	930	1022
6	150	2	45	95	205	366	605	958	1437	1579
8	200	3	89	188	408	727	1202	1903	2854	3136
10	250	4	151	320	694	1237	2047	3240	4859	5340
12	300	5	234	495	1072	1911	3162	5005	7507	8250
14	350	6	338	715	1549	2761	4568	7230	10844	11917
16	400	8	464	983	2130	3797	6282	9942	14913	16388
18	450	11	615	1302	2822	5028	8320	13168	19752	21705
20	500	14	791	1674	3628	6465	10698	16931	25396	27908
24	600	22	1222	2587	5605	9989	16528	26157	39236	43116
36	900	60	3021	6063	11055	17449	26086	39731	60895	86375
48	1200	134	6188	12426	22675	35794	53424	80945	124531	176640

$$C_V = Q\sqrt{\frac{G}{\Delta P}} \qquad Q = C_V\sqrt{\frac{\Delta P}{G}} \qquad \Delta P = \frac{Q^2 \times G}{C_V^2} \qquad V = \frac{Q \times 0.321}{A}$$

CV = Valveflowcoefficient

Q = Flow in U.S.gpm

G = Specific gravity (water=1.0)

ΔP = Pressure Drop(psi)

V = Velocity in feetpersecond

A = Area of pipe in squareinches

W = Flow in pounds perhour

$$Q = \frac{W}{500 \times G}$$

Sample problem:

Q = 5500 gpm (kerosene) @ 150psi
ΔP = 2ps
G =0.824

$$C_V = Q\sqrt{\frac{G}{\Delta P}} = 5500\sqrt{\frac{0.824}{2.0}}$$

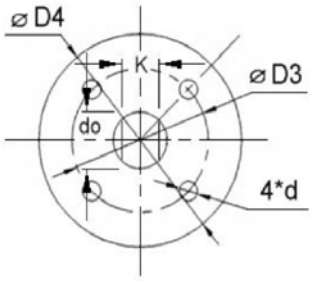
=5500 x 0.6419 = 3530

A 10” KVC Series 1000 has a C_V of 5340 at 90° open and would be suitable. If a smaller size was requested then the following calculation becomes important:

For on/off service, an 8” KVC 1000 series has a C_V of 3136 at 90° open. Checking the liquid velocity of an 8” valve, where A = 50.0 sq. in., V = Q x 0.321/A = 35 fps which is above the velocity limits of the 1000 series (30 fps). Therefore a 10” model 1000 would be required.

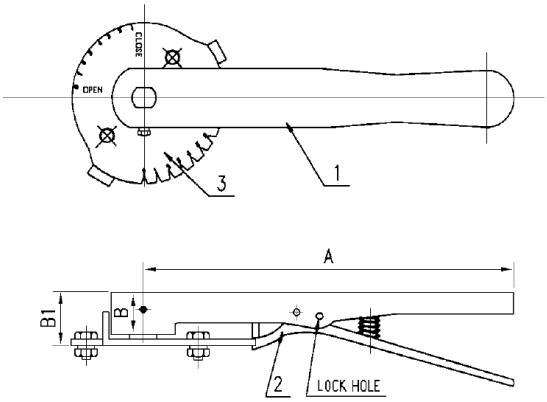
Manual Operators for the KVC 1000/2000/4000 Series Butterfly Valve

Lever Handle

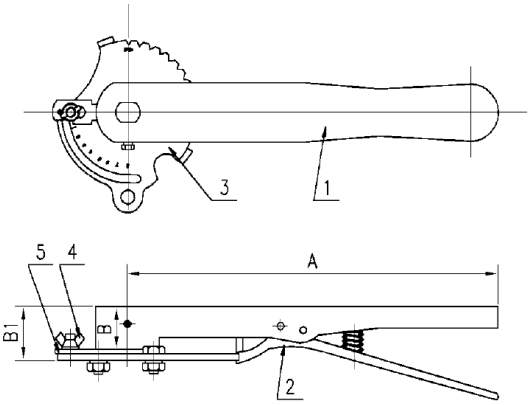


Item	Part Name
1	Handle
2	Lever
3	Notch plate
4	Locking nut
5	Throttle plate

10 Position Lever



Infinite Position Lever



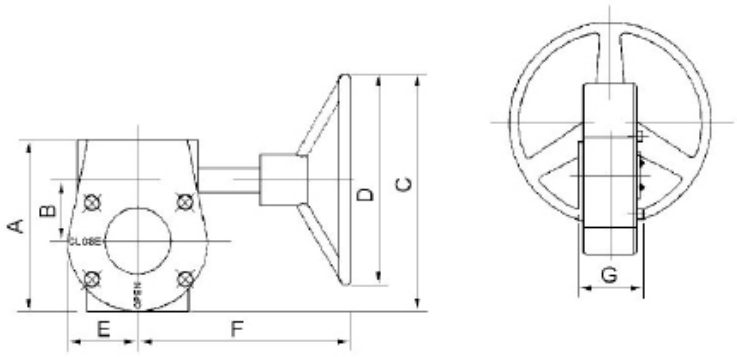
Dimensions:

Size		A		B		B1		D3		D4		4*d		do	K	Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm	mm	lb	kg
1½	40	10.5	266.7	1.06	27	1.37	35	2.76	70	3.54	90	0.39	10	12.6±0.025	10	1.87	0.85
2	50	10.5	266.7	1.06	27	1.37	35	2.76	70	3.54	90	0.39	10	12.6±0.025	10	1.87	0.85
2½	65	10.5	266.7	1.06	27	1.37	35	2.76	70	3.54	90	0.39	10	12.6±0.025	10	1.87	0.85
3	80	10.5	266.7	1.06	27	1.37	35	2.76	70	3.54	90	0.39	10	12.6±0.025	10	1.87	0.85
4	100	10.5	266.7	1.06	27	1.37	35	2.76	70	3.54	90	0.39	10	15.77±0.025	12	1.87	0.85
5	125	10.5	266.7	1.06	27	1.37	35	2.76	70	3.54	90	0.39	10	18.92±0.025	14	1.87	0.85
6	150	10.5	266.7	1.06	27	1.37	35	2.76	70	3.54	90	0.39	10	18.92±0.025	14	1.87	0.85
8	200	14.2	361	1.41	36	1.73	44	4.02	102	4.92	125	0.47	12	22.10±0.025	17	4.4	2
10	250	19.6	499	1.41	36	1.73	44	4.02	102	4.92	125	0.47	12	28.45±0.025	22	5.94	2.7
12	300	19.6	499	1.41	36	1.73	44	4.02	102	4.92	125	0.47	12	31.60±0.051	24	5.94	2.7

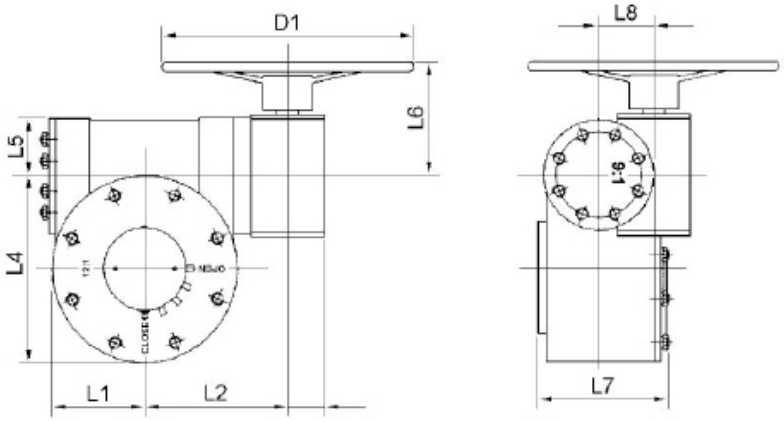
Manual Operators for the KVC 1000/2000/4000 Series Butterfly Valve

Manual Gear Operator

2” ~ 14”



16” ~ 48”



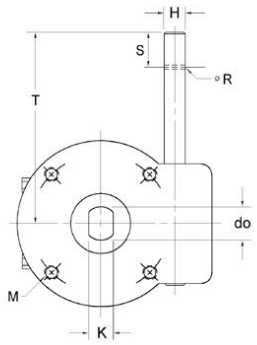
Dimensions:

Model	Size Range		A		B		C		D		E		F		G		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
GJ24W	1½~6	40~150	5	127	1.77	45	6.89	175	5.91	150	2.05	52	6.22	158	2.95	75	11	5.2
GJ30W	8	200	6.97	177	2.48	63	11.81	300	11.81	300	3.03	77	9.37	238	3.35	85	27	12.3
GJ50W	10~12	250~300	7.8	198	3.07	78	12.2	310	11.81	300	3.27	83	8.94	227	3.39	86	32	14.4
GJ80W	14~16	350~400	11.42	290	4.72	120	15.75	400	11.81	300	5.12	130	10.63	270	4.92	125	70	32
GJ80WA	18	450	11.42	290	4.72	120	17.72	450	15.75	400	5.12	130	11.02	280	4.92	125	75	34.3
GJ300X	20~24	500~600	12.32	313	4.72	120	16.06	408	11.81	300	5.43	138	13.31	338	6.06	154	106	48

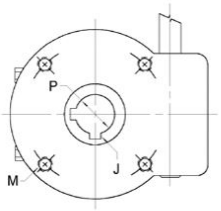
Model	Size Range		L1		L2		L3		L4		L5		L6		L7		L8		D1		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
GJ700W	28 ~ 32	700 ~ 800	5.75	146	8.98	228	2.32	59	11.61	295	3.82	97	4.13	105	6.34	161	3.46	88	15.75	400	213	97
GJ500W	36 ~ 40	900 ~ 1000	6.97	177	13.27	337	2.32	59	13.46	342	3.82	97	4.13	105	7.2	183	3.46	88	15.75	400	260	118
GJ2500W	42 ~ 48	1050 ~1200	9.84	250	12.36	314	2.76	70	15.91	404	4.13	105	7.8	198	9.45	240	4.96	126	17.72	450	510	232

Manual Operators for the KVC 1000/2000/4000 Series Butterfly Valve

Manual Gear Operator



2” ~ 14”



16” ~ 48”

Model	Size		H	S		ØR	do		K		J (key size)	M	P	T	
	in	mm	mm	in	mm	mm	in	mm	in	mm	-	mm	mm	in	mm
GJ24W	2 ~ 3	50 ~ 80	16	0.79	20	5	0.49	12.55	0.35	8.86	-	4 - M6x9	-	4.84	123
GJ24W	4	100	16	0.79	20	5	0.62	15.77	0.43	11.1	-	4 - M8x12	-	4.84	123
GJ24W	5 ~ 6	125 ~ 150	16	0.79	20	5	0.74	18.92	0.5	12.7	-	4 - M8x12	-	4.84	123
GJ30W	8	200	19	1.34	34	6	0.87	22.1	0.63	15.88	-	4 - M10x15	-	7.64	194
GJ50W	10	250	19	1.34	34	6	1.12	28.45	0.81	20.62	-	4 - M10x15	-	7.64	194
GJ50W	12	300	19	1.34	34	6	1.24	31.6	0.87	22.1	-	4 - M12x18	-	8.23	209
GJ80W	14	350	19	1.34	34	6	1.24	31.6	0.87	22.1	-	4 - M12x18	-	8.23	209
GJ80W	16	400	25	1.38	35	8	-	-	-	-	10	4 - M18x27	33.4	9.06	230
GJ80WA	18	450	25	1.38	35	8	-	-	-	-	10	4 - M18x27	38.1	9.06	230
GJ300X	20	500	20	-	-	-	-	-	-	-	10	4 - M20x30	41.2	4.88	124
GJ300X	24	600	20	-	-	-	-	-	-	-	16	4 - M20x30	50.7	5.43	138
GJ700W	28	700	28	-	-	-	-	-	-	-	18	8 - M16x24	63.4	6.57	167
GJ700W	30	750	28	-	-	-	-	-	-	-	18	8 - M16x24	63.4	6.57	167
GJ700W	32	800	28	-	-	-	-	-	-	-	18	8 - M16x24	63.4	6.57	167
GJ500W	36	900	28	-	-	-	-	-	-	-	20	8 - M16x24	75	6.57	167
GJ500W	40	1000	28	-	-	-	-	-	-	-	22	8 - M16x24	85	6.57	167
GJ2500W	42	1050	28	-	-	-	-	-	-	-	25	8 - M20x30	92	7.24	184
GJ2500W	48	1200	28	-	-	-	-	-	-	-	28	8 - M20x30	100	7.24	184

1-PIECE REDUCED PORT BALL VALVE

www.kvcindustries.com

FIG. A-122T

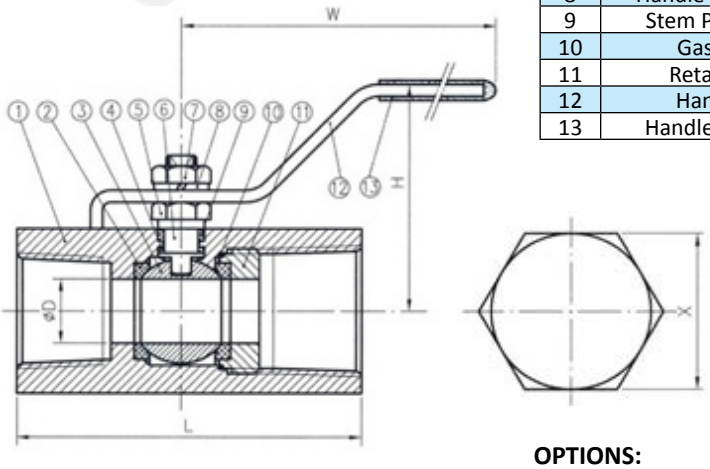
2000 WOG CARBON STEEL THREADED ENDS BARSTOCK BODY

Features:

- Strengthened Barstock construction secures 2000 PSI working pressure
  rating. Reinforced TFE seat increases durability.
- NACE Trim complied with NACE MR-01-75.
- Separating packing nut and handle nut secure NO STEM LEAKAGE even when handle is removed.
- Bottom-loaded blow-out proof stem.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Tested according to API 598.

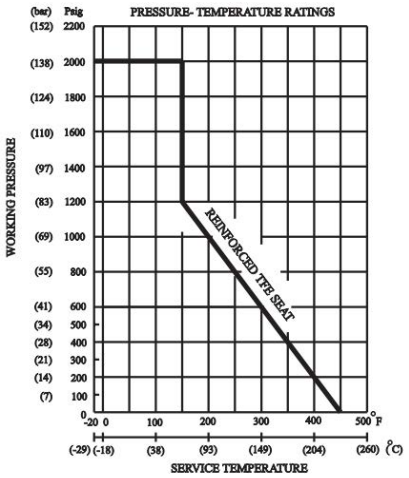
Materials List:

No.	Part Name	Specification
1	Body	ASTM A 108- Carbon Steel
2	Seat	Reinforced TFE
3	Ball	ASTM A351-CF8/304
4	Thrust Washer	PTFE
5	Packing Nut	AISI 304
6	Stem	ASTM A276-304
7	Handel Nut	Zinc Plated Steel
8	Handle Washer	Zinc Plated Steel
9	Stem Packing	PTFE
10	Gasket	PTFE
11	Retainer	ASTM A108-Carbon Steel
12	Handle	Zinc Plated Steel
13	Handle Cover	PVC



OPTIONS:

- L: LOCKING DEVICE.
- V: VENTED BALL.



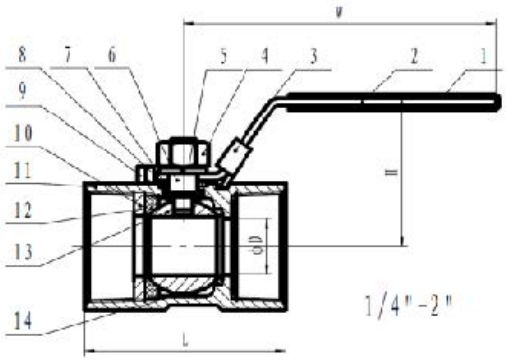
Dimension

Size		Ø D		L		H		W		X	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
¼	8	0.2	5	1.73	44	1.22	31	2.64	67	0.75	19
⅜	10	0.28	7	1.89	48	1.3	33	3.15	80	0.83	21
½	15	0.36	9.2	2.44	62	2.38	60.5	4.13	105	1.14	29
¾	20	0.49	12.5	2.76	70	2.5	63.5	4.13	105	1.38	35
1	25	0.63	16	3.39	86	2.68	68	4.25	108	1.61	41
1 ¼	32	0.79	20	3.7	94	2.99	76	5.51	140	2.24	57
1 ½	40	0.98	25	4.02	102	3.07	78	5.51	140	2.24	57
2	50	1.26	32	4.49	114	3.31	84	7.09	180	2.87	73

FIG. S-121T: 1000 WOG 1-PIECE STAINLESS STEEL BALL VALVE REDUCED PORT THREADED ENDS W/LOCKING LEVER HANDLE

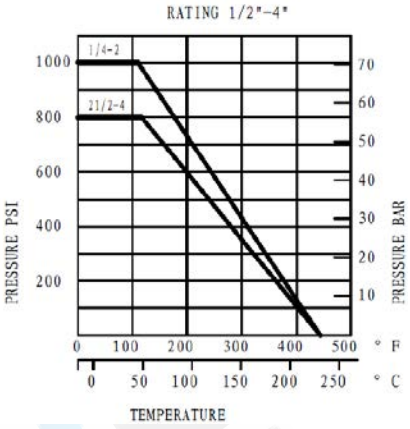
Features:

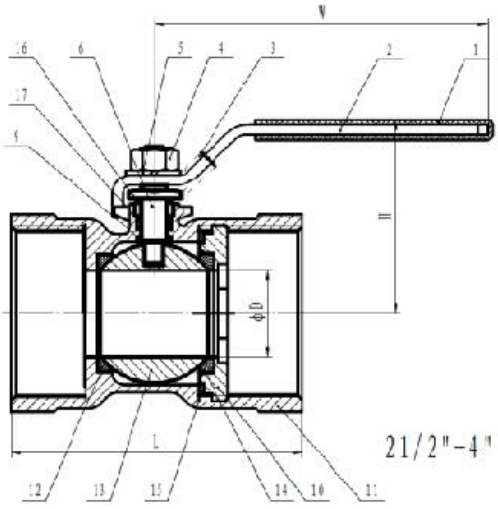
- For food & general chemical service application
- Adjustable stem packing
- Bottom-loaded blow-out proof stem
- Body & end caps quality investment casting
- Belleville washer assures leak-free seal on cool-down and as packing wears.
- Basic design complied with ANSI B16.34 &EN 12516-1.
- W.P:¼" - 2" 1000PSI, 2 ½" - 4" 800PSI
- Tested according to API 598



Materials:

No.	Part Name	Specification
1	Handle sleeve	PVC
2	Handle	AISI 304
3	Locking	AISI 304
4	Stem Nut	AISI 304
5	Spring Washer	AISI 304
6	Stem	AISI 316
7	Packing Ring	AISI 304
8	Stem Packing	PTFE
9	Thrust Washer	PTFE
10	Cap	CF8M
11	Body	CF8M
12	Seat (A)	PTFE
13	Ball	AISI 316
14	Ball Seat (B)	PTFE
15	Body seal	PTFE
16	Gland Nut	AISI 304
17	Stem Packing	PTFE





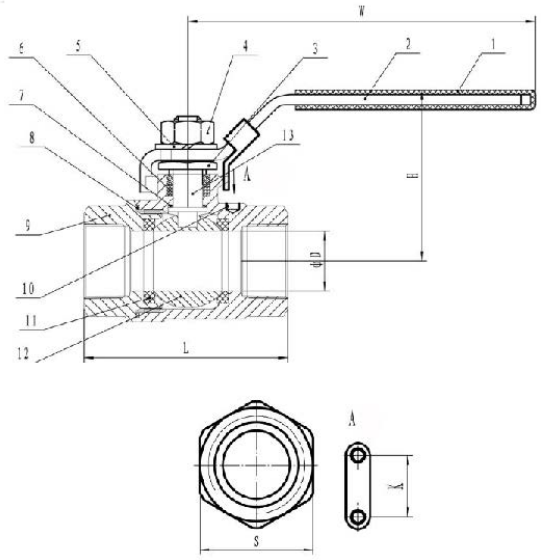
Dimension:

Size		ØD		L		H		W		S		
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
¼	8	0.2	5	1.55	39	1.22	31	2.56	65	0.67	17	
⅜	10	0.27	6.8	1.73	44	1.42	36	3.35	85	0.83	21	
½	15	0.36	9.2	2.22	56.5	1.61	41	3.74	95	0.98	25	HEX
¾	20	0.49	12.5	2.32	59	1.73	44	3.74	95	1.26	32	
1	25	0.59	15	2.8	71	1.89	48	4.37	111	1.5	38	
1 ¼	32	0.78	20	3.07	78	2.13	54	4.37	111	1.93	49	
1 ½	40	0.98	25	3.27	83	2.56	65	5.32	135	2.09	53	
2	50	1.26	32	3.94	100	2.83	72	5.32	135	2.56	65	
2 ½	65	1.5	38	4.72	120	3.15	80	6.06	154	3.27	83	
3	80	1.97	50	5.51	140	3.94	100	7.52	191	3.86	98	OCT
4	100	2.52	64	6.69	170	5.08	129	9.69	246	5	127	

FIG. S-201T: 1000 WOG 2-PIECE STAINLESS STEEL BALL VALVE FULL PORT THREADED ENDS W/LOCKING LEVER HANDLE

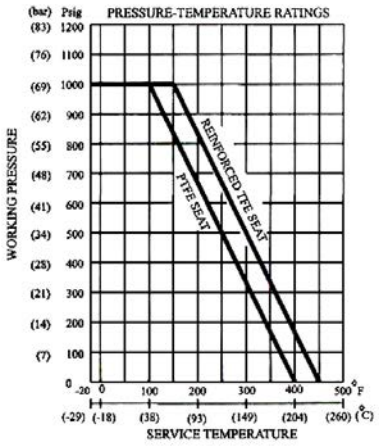
Features:

- Two-piece design for fast, economical in-line maintenance
- Basic design complied with ANSI B16.34
- NPT threaded ends complied with ANSI B 1.20.1., BS21, DIN 259/2999
- Tested according to API 598.
- Locking Lever handle
- Floating ball
- Investment casting



Materials:

No.	Part Name	Specification
1	Handle Cover	Plastic
2	Handle	304SS
3	Gland Nut	316SS
4	Stem Nut	304SS
5	Spring Washer	304SS
6	Stem Packing	PTFE
7	Thrust Washer	PTFE
8	Joint Gasket	PTFE
9	Cap	316SS
10	Body	316SS
11	Seat	PTFE
12	Ball	316SS
13	Stem	316SS



Dimension:

Size		D		L		H		W		S		K	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
¼	8	0.36	9.2	2.13	54.3	1.88	48	4.01	102	1	25	1.12	28.5
⅜	10	0.36	9.2	2.13	54.3	1.88	48	4.01	102	1	25	1.12	28.5
½	15	0.5	12.7	2.4	61	2.04	52	4.65	118	1.18	30	1.12	28.5
¾	20	0.75	20	2.75	70	2.4	61	4.65	118	1.42	36	1.37	34.8
1	25	1	25	3.22	82	2.55	65	5.82	148	1.75	44.6	1.37	34.8
1 ¼	32	1.25	32	3.6	91.5	3.11	79	5.82	148	2.12	54	1.5	38.1
1 ½	40	1.49	38	4.44	113	3.26	83	6.38	162	2.4	61	1.5	38.1
2	50	2	50	4.88	124	3.81	97	6.38	162	2.75	70	1.5	38.1
2 ½	65	2.51	64			5.07	129	9.61	244	3.3	84	2.18	55.5
3	80	2.99	76	7.44	189	5.43	138	9.6	244	3.89	99	2.18	55.5
4	100	3.7	94	9.44	240	6.88	175	12.48	317	5.11	130	2.48	63

2-PIECE STAINLESS STEEL & CARBON STEEL BALL VALVE

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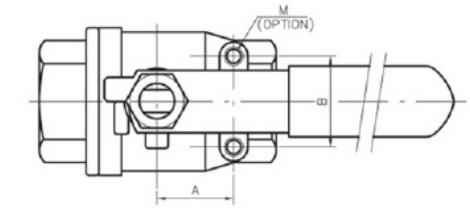
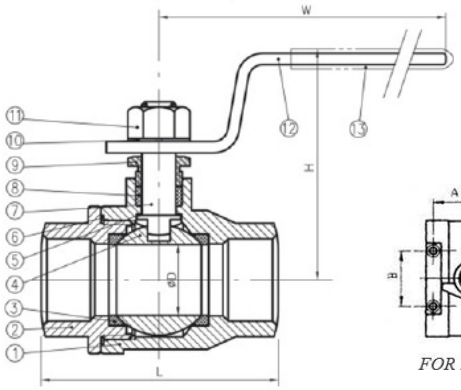
FIG. S-292T / C-292T: THREADED ENDS, ¼" TO 2": 2000 W.O.G., 2 ½" TO 4": 1500 W.O.G.





Features:

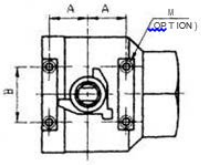
- Strengthened construction secures 2000 psi working pressure rating. Reinforced TFE seats increase durability.
- Adjustable packing gland.
- Bottom-loaded blow-out proof stem.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1..
- Re, Rp & G Threaded ends complied with BS 21/2779, JIS B- 0203/0202, DIN 259/2999, ISO 228-1, ASl 722.1/1722.2 are upon request.
- Tested according to API 598

Materials List:

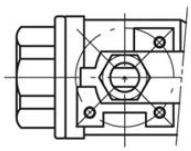
NO.	PARTS	S-292T	C-292T
1	BODY	ASTM A351-CF8M	ASTM A216-WCB
2	END CAP	ASTM A351-CF8M	ASTM A216-WCB
3	SEAT	REINFORCED TFE	REINFORCED TFE
4	BALL	ASTM A351 -CF8M /316	ASTM A351- CF8 /304
5	THRUST WASHER	PTFE	PTFE
6	GASKET	PTFE	PTFE
7	STEM	ASTM A276-316	ASTM A276-304
8	STEM PACKING	PTFE	PTFE
9	GLAND	AISI 304	AISI 304
10	HANDLE WASHER	AISI 304	AISI 304
11	HANDLE NUT	AISI 304	AISI 304
12	HANDLE	AISI 304	ZINC PLATED STEEL
13	HANDLE COVER	PVC	PVC

OPTIONS:

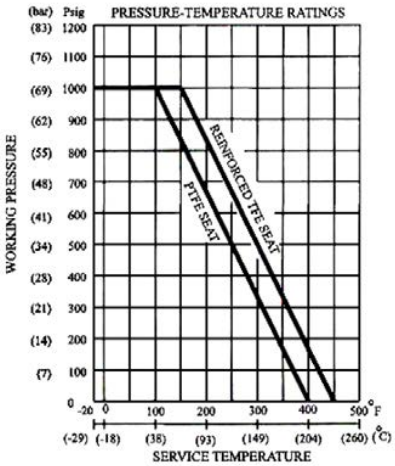
- F: FIRE-SAFE DESIGN.
- L: LOCKING DEVICE.
- M: TAPPED MOUNTING PAD.
- V: VENTED BALL.



FOR 2 1/2"~ 3"



FOR4"



Dimension

SIZE		ØD		L		A		B		H		W		M (OPTION)
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
¼	8	0.43	11	2.24	57	0.5	12.7	1.12	28.5	2.13	54	3.7	94	10-24UNC
⅜	10	0.49	12.5	2.24	57	0.5	12.7	1.12	28.5	2.13	54	3.7	94	10-24UNC
½	15	0.59	15	2.54	64.5	0.5	12.7	1.12	28.5	2.24	57	3.7	94	10-24UNC
¾	20	0.79	20	2.87	73	0.87	22.1	1.38	35	2.46	62.5	4.37	111	10-24UNC
1	25	1	25.4	3.37	85.5	0.93	23.6	1.38	35	2.87	73	5.37	136.5	10-24UNC
1 ¼	32	1.26	32	3.94	100	0.93	23.6	1.5	38.1	3.09	78.5	5.37	136.5	1/4-20UNC
1 ½	40	1.5	38	4.41	112	0.93	23.6	1.5	38.1	3.48	88.5	6.57	167	1/4-20UNC
2	50	1.97	50	5.12	130	0.93	23.6	1.5	38.1	3.84	97.5	6.57	167	1/4-20UNC
2 ½	65	2.56	65	6.38	162	1.38	35	2.17	55	5.06	128.5	9.57	243	1/4-20UNC
3	80	3.15	80	7.09	180	1.38	35	2.17	55	5.49	139.5	9.57	243	1/4-20UNC
4	100	3.94	100	9.09	231					6.59	167.5	10.79	274	M10

2-PIECE STAINLESS STEEL & CARBON STEEL BALL VALVE

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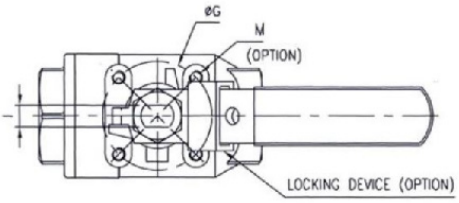
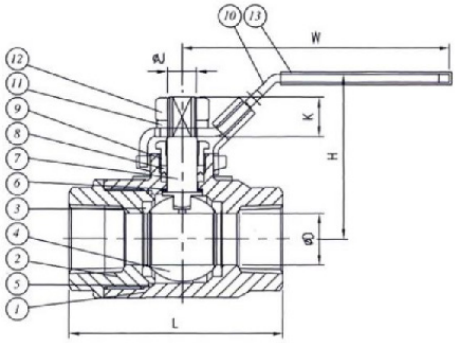
FIG. S-203TWL / C-203TWL: THREADED ENDS 3000 W.O.G ¼" TO 1 ½ " & 3": FULL PORT; 2": STANDARD PORT





Features:

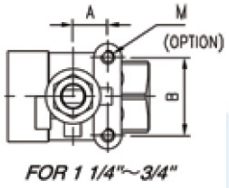
- Strengthened constructionsecures 3000 psi workingpressure rating. Enlarged bottom-loaded blow-out proofstem.
- Gasket is placed ahead of the body cap threads,
- providing a tight seal and protection of threads from flow media.
- Vented ball equalizes pressure between the body cavity and the flow stream to preventseat damagedue to thermal cycling.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1..
- Re, Rp & G Threaded ends complied with BS 21/2779, ns B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request
- Tested according toAPI 598.

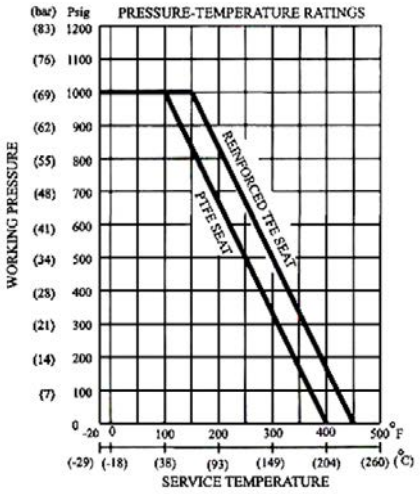
Materials List:

NO.	PARTS	S-203TWL	C-203TWL
1	BODY	ASTM A351-CF8M / 316	ASTM A216-WCB
2	ENDCAP	ASTM A351-CF8M / 316	ASTM A216-WCB
3	SEAT	DELRIN	DELRIN
4	BALL	ASTM A351-CF8M / 316	ASTM A351-CF8 / 304
s	GASKET	PTFE	PTFE
6	THRUST WASHER	PTFE	PTFE
7	STEM	ASTM A216-316	ASTM A276-304
8	STEM PACKING	PTFE	PTFE
9	GLAND	AISI 304	AISI 304
10	HANDLE	AISI 304	ZINC PLATED STEEL
11	HANDLE WASHER	AISI 304	AISI 304
12	HANDLE NUT	AISI 304	AISI 304
13	HANDLE COVER	PVC	PVC

OPTIONS:

- L: LOCKING DEVICE.
- M: TAPPED MOUNTING PAD.
- F: FIRE-SAFE DESIGN.
- W: BODY JOINT FULLY WELDED.
- O: VITON O-RING ON STEM.
- A: ANTI-STATIC DEVICE.

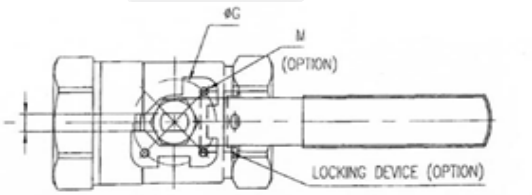


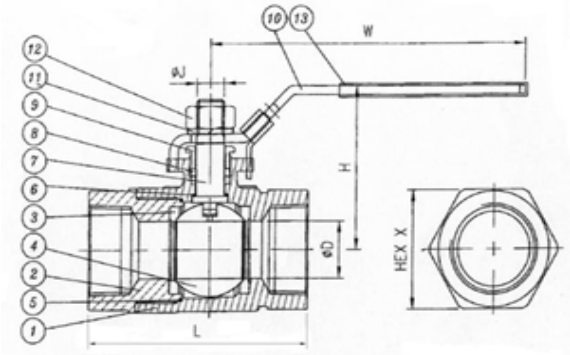


Dimension

Size		Ø D		L		H		W		I		Ø J		K		Ø G		A		B		M
in	DN	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
¼	8	0.37	9.5	2.52	64	2.13	54	3.7	94	0.2	5	0.31	8	0.37	9.5	-	-	0.5	12.7	1.12	28.5	10-24 UNC
⅜	10	0.37	9.5	2.52	64	2.13	54	3.7	94	0.2	5	0.31	8	0.37	9.5	-	-	0.5	12.7	1.12	28.5	10-24 UNC
½	15	0.49	12.5	2.83	72	2.13	54	4.37	111	0.2	5	0.31	8	0.37	9.5	-	-	0.5	12.7	1.12	28.5	10-24 UNC
¾	20	0.79	20	3.5	89	2.5	63.5	4.37	111	0.28	7	0.39	10	0.55	14	-	-	0.87	22.1	1.38	35	10-24 UNC
1	25	0.98	25	4.02	102	3.11	79	6.57	167	0.39	10	0.55	14	0.75	19	1.97	50	-	-			M6-P1
1 ¼	32	1.26	32	4.57	116	3.31	84	6.57	167	0.39	10	0.55	14	0.79	20	1.97	50	-	-			M6-P1
1 ½	40	1.5	38	4.88	124	4.29	109	8.66	220	0.47	12	0.75	19	1.14	29	2.76	70	-	-			M8-P1.25
2	50	1.5	38	5.51	140	4.29	109	8.66	220	0.47	12	0.75	19	1.14	29	2.76	70	-	-			M8-P1.25
3	80	3.15	80	8.07	205	5.94	151	14.57	370	0.63	16	0.98	25	1.34	34	4.02	102	-	-			M10-P1.5

FIG. S-206TWL / C-206TWL: 6000 WOG, ¼" TO 1 ½": FULL PORT, 2": STANDARD PORT, THREADED ENDS, NACE MR-01-75 ISO 5211 MOUNTING PAD, LEVER HANDLE





Features:

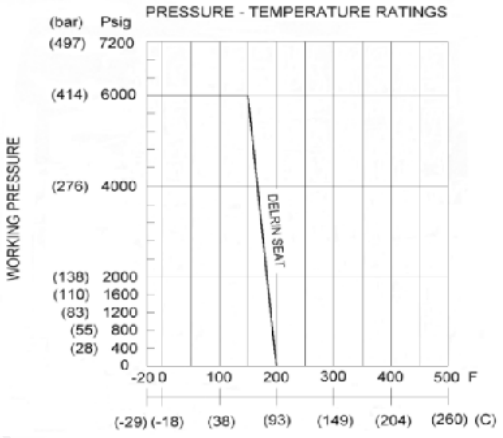
- Strengthened construction secures 6000 psi working pressure rating. Enlarged bottom-loaded blow-out proof stem.
- Gasket is placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media.
- Vented ball equalizes pressure between the body cavity and the flow steam to prevent seat damage due to thermal cycling.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Tested according to API 598.

Materials List:

No.	Part Name	S-206TML	C-206TML
1	Body	ASTM A315- CF8M / 316	ASTM A216- WCB
2	End Cap	ASTM A315- CF8M / 316	ASTM A216- WCB
3	Seat	Delrin	Delrin
4	Ball	ASTM A351-CF8M / 316	ASTM A351-CF8 / 304
5	Gasket	PTFE	PTFE
6	Thrust Washer	PTFE	PTFE
7	Stem	ASTM A276-316	ASTM A276-304
8	Stem Packing	PTFE	PTFE
9	Gland	AISI 304	AISI 304
10	Handle	AISI 304	Zinc Plated Steel
11	Handle Washer	AISI 304	AISI 304
12	Handle Nut	AISI 304	AISI 304
13	Handle Cover	PVC	PVC

OPTIONS:

- L: LOCKING DEVICE.
- F: FIRE-SAFE DESIGN.
- W: BODY JOINT FULLY WELDED.
- O: VITON O-RING ON STEM.
- A: ANTI-STATIC DEVICE.



Dimension

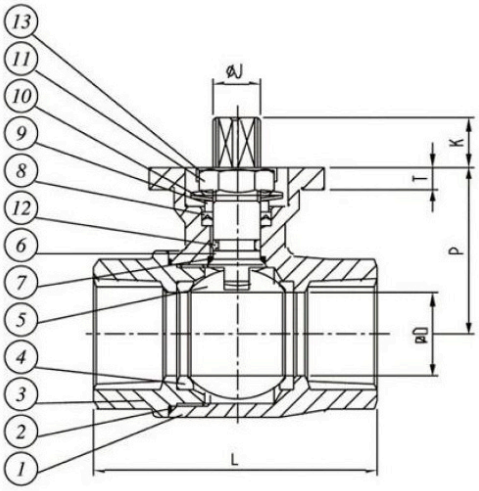
Size		Ø D		L		I		Ø J		K		K1		Ø G		M	H		W	
in	mm	in	mm	in	mm	In	mm	In	mm	in	mm	in	mm	in	mm		in	mm	in	mm
¼	8	0.37	9.5	2.8	71	0.2	5	0.31	8	0.31	7.8	0.5	12.8	1.42	36	M5	2.34	59.5	4.25	108
⅜	10	0.37	9.5	2.8	71	0.2	5	0.31	8	0.31	7.8	0.5	12.8	1.42	36	M5	2.34	59.5	4.25	108
½	15	0.49	12.5	3.19	81	0.2	5	0.31	8	0.31	7.8	0.5	12.8	1.42	36	M5	2.34	59.5	4.25	108
¾	20	0.79	20	3.78	96	0.28	7	0.39	10	0.55	14	0.83	21	1.65	42	M5	2.5	63.5	5.16	131
1	25	0.98	25	4.25	108	0.39	10	0.55	14	0.75	19	1.07	27.2	1.97	50	M5	3	76.2	6.57	167
1 ¼	32	1.26	32	4.72	120	0.39	10	0.55	14	0.79	20	1.11	28.2	1.97	50	M5	3.19	81	6.57	167
1 ½	40	1.5	38	5.12	130	0.47	12	0.75	19	1.14	29	1.56	39.5	2.76	70	M5	4.3	109.2	8.66	220
2	50	1.5	38	5.91	150	0.47	12	0.75	19	1.14	29	1.56	39.5	2.76	70	M5	4.3	109.2	8.66	220

FIG. S-231TD: 1000 WOG FULL PORT THREADED ENDS SQUARE STEM ISO 5211 DIRECT ACTUATOR MOUNTING PAD

Features:

- Actuator can be installed directly on the mounting pad without using bracket & coupling.
- Live-loaded packing gland design for self-adjustment of packing compression.
- Chevron V type packing to further ensure no leakage.
- Pyramidal stem with stem seal effectively blocks all leak paths during rotation.
- Pressure equalizing seats.
- Bottom-loaded blow-out proof stem.
- Low operating torque to reduce automation costs.
- Basic design complied with ANSI B16.34 & EN 2516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Tested according to API 598.

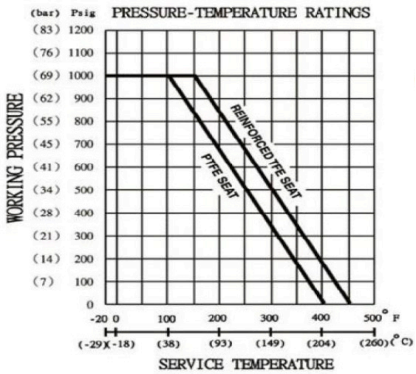
Materials List:



No.	Part Name	Specification
1	Body	ASTM A351-CF8M/316
2	Gasket	PTFE
3	End Cap	ASTM A351-CF8M/316
4	Seat	PTFE
5	Ball	ASTM A351-CF8M/316
6	Stem	ASTM A276-316
7	Thrust Washer	PTFE
8	Stem Packing	PTFE
9	Gland	AISI 304
10	Belleville Washer	AISI 301
11	Packing Nut	AISI 304
12	O-Ring	Viton
13	Nut Lock	AISI 304

OPTIONS:

- H: Equipped with lever handle (without locking device)
- L: Equipped with lockable lever handle
- V: Vented Ball
- P: equipped with pneumatic actuator.
- A: Anti-static device



Dimension:

Size		Ø D		L		P		T		I		Ø J		K		ISO 5211
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
½	15	0.59	15	2.52	64	1.34	34	0.16	4	0.35	9	0.47	12	0.33	8.5	F03-F04
¾	20	0.79	20	2.72	69	1.59	40.5	0.16	4	0.35	9	0.47	12	0.35	9	F03-F04
1	25	1	25.4	3.15	80	1.91	48.5	0.24	6	0.43	11	0.55	14	0.57	14.5	F04-F05
1 ¼	32	1.26	32	3.62	92	2.05	52	0.26	6.5	0.43	11	0.55	14	0.57	14.5	F04-F05
1 ½	40	1.5	38	4.13	105	2.69	68.2	0.28	7	0.55	14	0.75	19	0.73	18.5	F05-F07
2	50	1.97	50	4.84	123	3.05	77.5	0.3	7.5	0.55	14	0.75	19	0.73	18.5	F05-F07

KVC INDUSTRIES

2-PIECE FULL PORT BALL VALVES

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FIG. S-232T / C-232T: THREADED ENDS, ¼" TO 2": 2000 PSI (138 BAR) W.O.G., 2 ½" TO 4": 1500 PSI (103 BAR) W.O.G., ISO 5211 MOUNTING PAD

OPTIONS:

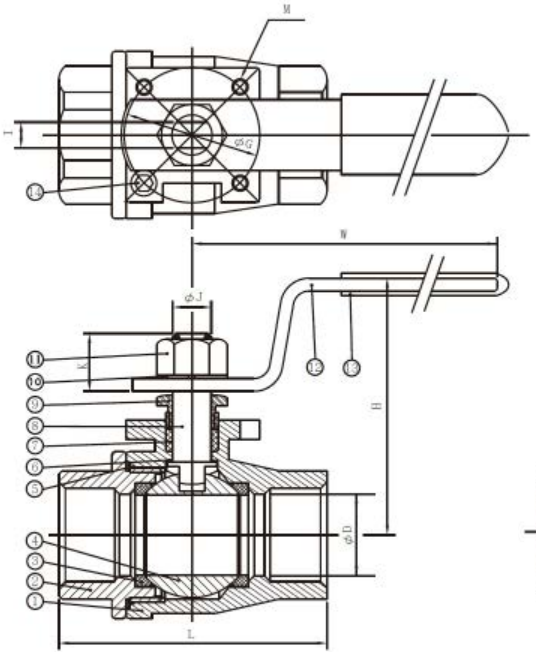
- L: LOCKING DEVICE.
- V: VENTED BALL.
- F: FIRE-SAFE DESIGN.
- P: EQUIPPED WITH PNEUMATICACTUATOR.
- W:BODY JOINT FULLY WELDED

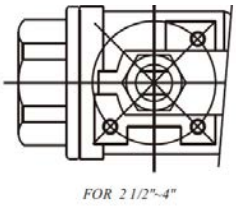
Features:

- Strengthened construction secures 2000 psi working pressure rating. Reinforced TFE seats increase durability.
- Adjustable packing gland.
- Bottom-loaded blow-out proof stem.
- Low operating torque to reduce automation comvmsts.
- Mounting pad complied with ISO 5211 for ease and interchangeability of actuation.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1..
- Rc, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Tested according to API 598.

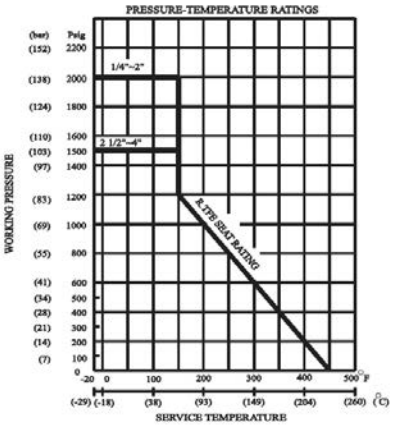
Materials List:

NO.	PARTS	S-232T	C-232T
1	BODY	ASTM A35 l-CF8M	ASTM A216-WCB
2	END CAP	ASTM A35 l-CF8M	ASTM A216-WCB
3	SEAT	REINFORCED TFE	REINFORCED TFE
4	BALL	ASTM A351-CF8M/316	ASTM A351 - CF8/304
5	GASKET	PTFE	PTFE
6	THRUST WASHER	PTFE	PTFE
7	STEM PACKING	PTFE	PTFE
8	STEM	ASTM A276-316	ASTM A276-304
9	GLAND	AISI 304	AISI 304
10	HANDLE WASHER	AISI 304	AISI 304
11	HANDLE NUT	AISI 304	AISI 304
12	HANDLE	AISI 304	ZINC PLATED STEEL
13	HANDLE COVER	PVC	PVC
14	STOP SCREW	AISI 304	CARBON STEEL





FOR 2 1/2"~4"



DIMENSIONS

SIZE		ØD		L				ØJ		K		ØG		H		w		M
in	mm	lll	mm	in	mm	lll	mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm
¼	8	0.4	11	2.3	59	0.2	5	0.31	8	0.4	9	1.4	36	2.17	55	5.31	135	MS
⅜	10	0.5	13	2.3	59	0.2	5	0.31	8	0.4	9	1.4	36	2.17	55	5.31	135	MS
½	15	0.6	15	2.5	65	0.2	5	0.31	8	0.5	12	1.4	36	2.24	57	5.31	135	MS
¾	20	0.8	20	2.9	73	0.2	6	0.39	10	0.6	15	1.4	36	2.46	62.5	5.31	135	MS
1	25	1	25	3.4	86	0.3	8	0.47	12	0.6	16	1.7	42	2.7	68.5	6.5	165	MS
1 ¼	32	1.3	32	3.9	100	0.3	8	0.47	12	0.7	18	1.7	42	2.91	74	6.5	165	MS
1 ½	40	1.5	38	4.5	115	0.3	8	0.55	14	0.8	20	2	50	3.56	90.5	6.89	175	M6
2	50	2	50	5.3	134	0.3	8	0.55	14	0.8	20	2	50	3.92	99.5	6.89	175	M6
2 ½	65	2.6	65	6.5	166	0.5	12	0.79	20	1.1	29	2.8	70	5.06	128 .5	9.57	243	MS
3	80	3.2	80	7.4	189	0.5	12	0.79	20	1.1	29	2.8	70	5.49	139.5	9.57	243	MS
4	100	3.9	100	9.1	231	0.6	16	0.98	25	1.2	31	4	102	6.59	16 7.5	10.79	274	MIO

3-PIECE STAINLESS STEEL & CARBON STEEL BALL VALVE

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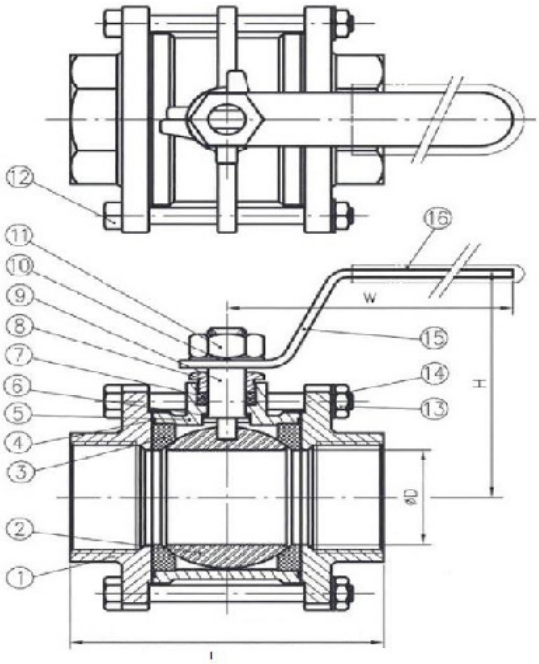
FIG. S-301T / C-301T: 1000 WOG 3-PIECE BALL VALVE FULL PORT THREADED ENDS

Features:

- Three-piece design for fast, economical in-line maintenance
- Adjustable packing gland. Bottom-loaded blow-out proof stem.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JISB-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Socket weld ends complied with ANSI B 16.11 are upon request.
- Tested according to API 598.

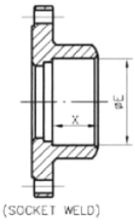
Materials List:

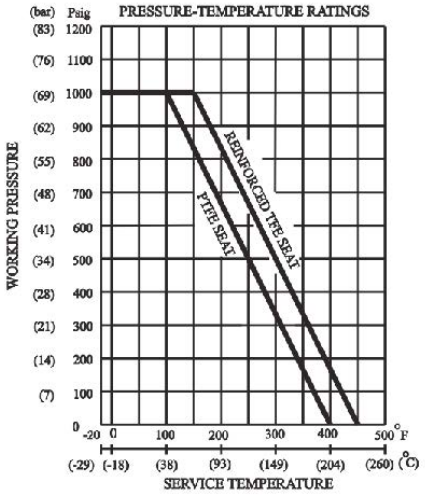
No.	Part Name	S-301T	C-301T
1	End cap	ASTM A351-CF8M/316	ASTM A216-WCB
2	Ball	ASTM A351-CF8M/316	ASTM A351-CF8/304
3	Seat	PTFE	PTFE
4	Gasket	PTFE	PTFE
5	Body	ASTM A351-CF8M/316	ASTM A216-WCB
6	Thrust washer	PTFE	PTFE
7	Stem packing	PTFE	PTFE
8	Gland	AISI 304	AISI 304
9	Stem	ASTM A276-316	ASTM A276-304
10	Handle washer	AISI 304	AISI 304
11	Handle nut	AISI 304	AISI 304
12	Bolt	AISI 304/GR. B8	Carbon Steel / GR. B7
13	Nut	AISI 304/GR. 8	Carbon Steel / GR. 2H
14	Bolt washer	AISI 304	Carbon Steel
15	Handle	AISI 304	Zinc Plated Steel
16	Handle cover	PVC	PVC



OPTIONS:

- L: LOCKING DEVICE
- V: VENTED BALL





Dimension

Size		Ø D		L		H		Ø E		W		X	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
¼	8	0.43	11	2.56	65	2.05	52	0.555	14.2	3.7	94	0.39	10
⅜	10	0.49	12.5	2.56	65	2.05	52	0.69	17.6	3.7	94	0.39	10
½	15	0.59	15	2.76	70	2.09	53	0.855	21.8	3.7	94	0.51	13
¾	20	0.79	20	3.15	80	2.22	56.5	1.065	27.2	3.7	94	0.59	15
1	25	1	25.4	3.54	90	2.58	65.5	1.33	33.9	4.37	111	0.59	15
1 ¼	32	1.26	32	4.13	105	2.8	71	1.675	42.7	4.37	111	0.59	15
1 ½	40	1.5	38	4.72	120	3.5	89	1.915	48.8	6.57	167	0.63	16
2	50	1.97	50	5.28	134	3.84	97.5	2.406	61.2	6.57	167	0.67	17
2 ½	65	2.56	65	6.5	165	5.06	128.5	2.906	73.9	9.57	243	0.67	17
3	80	3.15	80	7.28	185	5.47	139	3.535	89.8	9.57	243	0.67	17
4	100	3.94	100	9.09	231	6.59	167.5	4.545	115.2	10.79	274	0.79	20

KVC INDUSTRIES

3-PIECE STAINLESS STEEL & CARBON STEEL BALL VALVE

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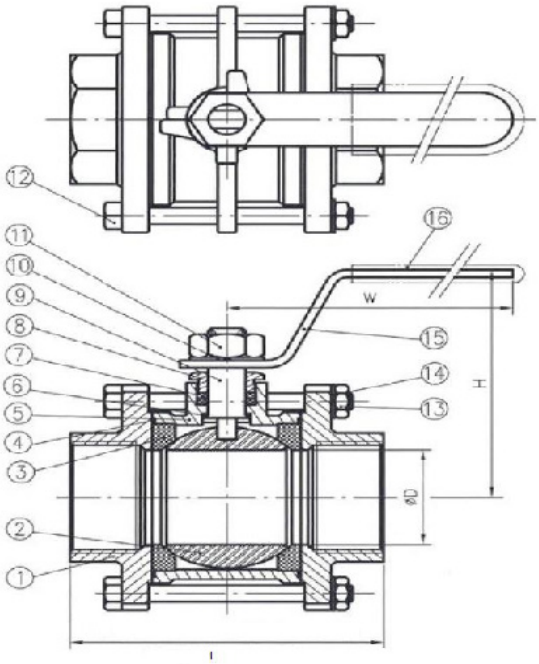
FIG. S-301S / C-301S: 1000 WOG 3-PIECE BALL VALVE FULL PORT SOCKET WELD ENDS

Features:

- Three-piece design for fast, economical in-line maintenance
- Adjustable packing gland. Bottom-loaded blow-out proof stem.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JISB-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Socket weld ends complied with ANSI B 16.11 are upon request.
- Tested according to API 598.

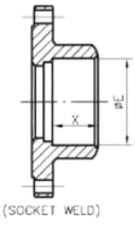
Materials List:

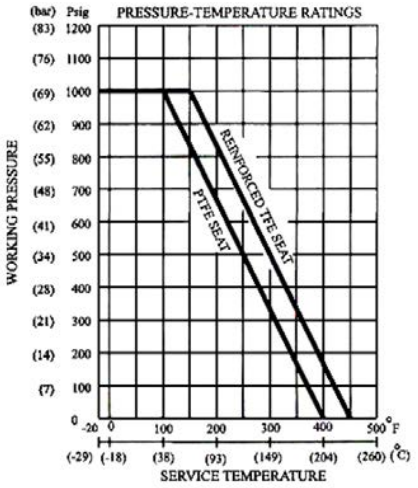
No.	Part Name	S-301S	C-301S
1	End cap	ASTM A351-CF8M/316	ASTM A216-WCB
2	Ball	ASTM A351-CF8M/316	ASTM A351-CF8/304
3	Seat	PTFE	PTFE
4	Gasket	PTFE	PTFE
5	Body	ASTM A351-CF8M/316	ASTM A216-WCB
6	Thrust washer	PTFE	PTFE
7	Stem packing	PTFE	PTFE
8	Gland	AISI 304	AISI 304
9	Stem	ASTM A276-316	ASTM A276-304
10	Handle washer	AISI 304	AISI 304
11	Handle nut	AISI 304	AISI 304
12	Bolt	AISI 304/GR. B8	Carbon Steel / GR. B7
13	Nut	AISI 304/GR. 8	Carbon Steel / GR. 2H
14	Bolt washer	AISI 304	Carbon Steel
15	Handle	AISI 304	Zinc Plated Steel
16	Handle cover	PVC	PVC



OPTIONS:

- L: LOCKING DEVICE
- V: VENTED BALL





Dimension:

Size		Ø D		L		H		Ø E		W		X	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
¼	8	0.43	11	2.56	65	2.05	52	0.555	14.2	3.7	94	0.39	10
⅜	10	0.49	12.5	2.56	65	2.05	52	0.69	17.6	3.7	94	0.39	10
½	15	0.59	15	2.76	70	2.09	53	0.855	21.8	3.7	94	0.51	13
¾	20	0.79	20	3.15	80	2.22	56.5	1.065	27.2	3.7	94	0.59	15
1	25	1	25.4	3.54	90	2.58	65.5	1.33	33.9	4.37	111	0.59	15
1 ¼	32	1.26	32	4.13	105	2.8	71	1.675	42.7	4.37	111	0.59	15
1 ½	40	1.5	38	4.72	120	3.5	89	1.915	48.8	6.57	167	0.63	16
2	50	1.97	50	5.28	134	3.84	97.5	2.406	61.2	6.57	167	0.67	17
2 ½	65	2.56	65	6.5	165	5.06	128.5	2.906	73.9	9.57	243	0.67	17
3	80	3.15	80	7.28	185	5.47	139	3.535	89.8	9.57	243	0.67	17
4	100	3.94	100	9.09	231	6.59	167.5	4.545	115.2	10.79	274	0.79	20

KVC INDUSTRIES

3-PIECE STAINLESS STEEL BALL VALVES

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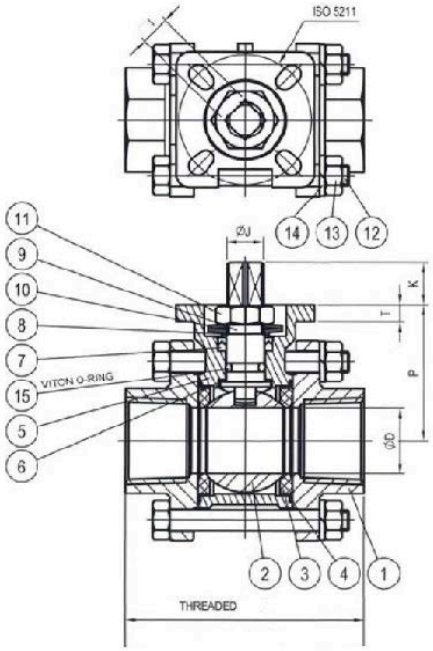
FIG. S-331TD 1000 WOG FULL PORT THREADED ENDS ISO 5211 SQUARE STEM DIRECT ACTUATOR MOUNTING PAD W/ LOCKING LEVER HANDLER

Features:

- Actuator can be installed directly on the mounting pad without using bracket & coupling.
- Live-loaded packing gland design for self-adjustment of packing compression.
- Chevron V type packing to further ensure no leakage.
- Pressure equalizing seats.
- Bottom-loaded blow-out proof stem
- Low operating torque to reduce automation costs.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Tested according to API 598.

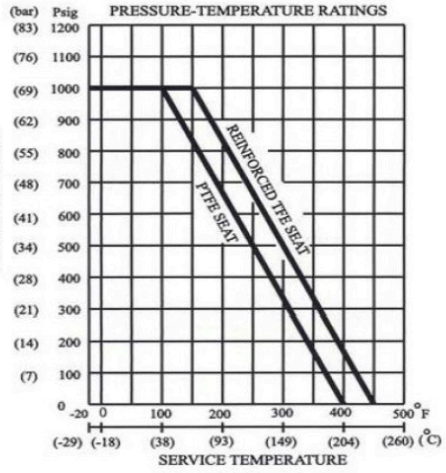


Materials List:

No.	Part Name	Specification
1	End Cap	ASTM A351-CF8M/316
2	Ball	ASTM A351-CF8M/316
3	Seat	PTFE
4	Gasket	PTFE
5	Body	ASTM A351-CF8M/316
6	Thrust Wash-er	PTFE
7	Stem Packing	PTFE
8	Gland	AISI 304
9	Stem	ASTM A276-316
10	Belleville Washer	AISI 301
11	Packing Nut	AISI 304
12	Bolt	AISI 304/Gr. B8
13	Bolt Nut	AISI 304/Gr. 8
14	Bolt Washer	AISI 304
15	O-ring	Viton

OPTIONS:

- L: EQUIPPED WITH LOCKABLE LEVER HANDLE
- V: VENTED BALL
- H: EQUIPPED WITH LEVER HANDLE (W/O LOCKING DEVICE)
- A: ANTI-STATIC DEVICE
- P: EQUIPPED WITH PNEUMATIC ACTUATOR



DIMENSIONS:

Size		Ø D		I		Ø J		K		L		P		T		ISO 5211
in	mm	in	Mm	in	mm	in	mm	in	mm	In	mm	in	mm	in	mm	
¼	8	0.41	10.5	0.35	9	0.47	12	0.35	9	2.76	70	1.65	42	0.16	4	F03-F04
⅜	10	0.49	12.5	0.35	9	0.47	12	0.35	9	2.76	70	1.65	42	0.16	4	F03-F04
½	15	0.59	15	0.35	9	0.47	12	0.35	9	2.76	70	1.65	42	0.16	4	F03-F04
¾	20	0.79	20	0.35	9	0.47	12	0.35	9	3.15	80	1.77	45	0.16	4	F03-F04
1	25	0.98	25	0.43	11	0.55	14	0.55	14	3.54	90	2.05	52	0.26	6.5	F04-F05
1 ¼	32	1.26	32	0.43	11	0.55	14	0.55	14	4.13	105	2.3	58.5	0.26	6.5	F04-F05
1 ½	40	1.5	38	0.55	14	0.75	19	0.71	18	4.72	120	2.68	68	0.28	7	F05-F07
2	50	1.97	50	0.55	14	0.75	19	0.71	18	5.51	140	3.13	79.5	0.3	7.5	F05-F07
2 ½	65	2.56	65	0.67	17	0.94	24	0.87	22	6.61	168	4.13	105	0.41	10.5	F07-F10
3	80	3.15	80	0.67	17	0.94	24	0.87	22	7.6	193	4.57	116	0.41	10.5	F07-F10
4	100	3.94	100	0.87	22	1.1	28	1.14	29	9.09	231	5.35	136	0.41	10.5	F10-F12

3-PIECE FULL PORT
STAINLESS STEEL BALL VALVES

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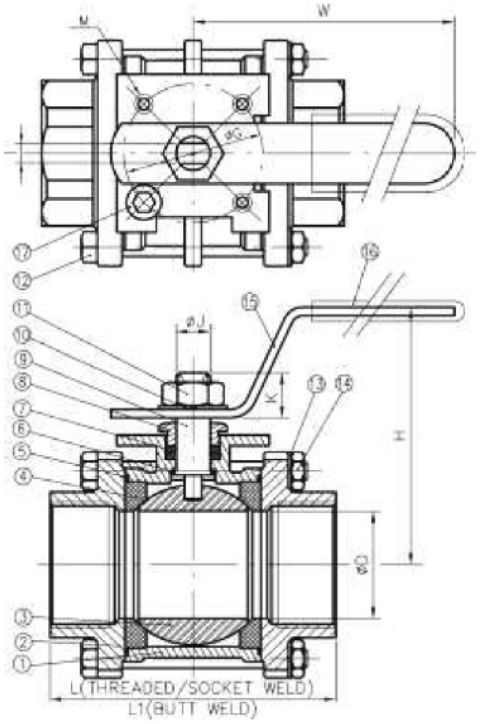
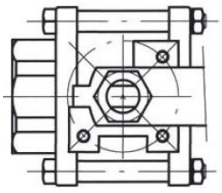
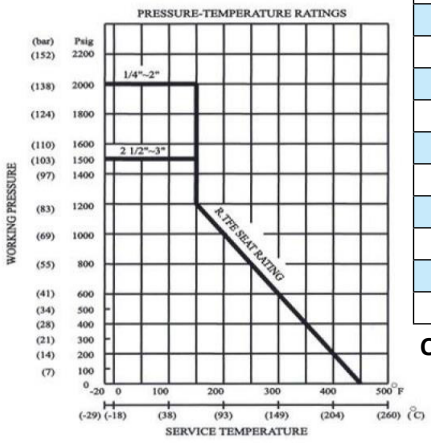
FIG. S-332T: THREADED ENDS, ¼" TO 2": 2000 WOG 2 ½" TO 3":1500 WOG ISO 5211 MOUNTING PAD.

Features:

- Three-piece design for fast, economical in-line maintenance.
- Strengthened construction secures 2000 psi working pressure rating.
- Reinforced TFE seats increase durability.
- Adjustable packing gland.
- Bottom-loaded blow-out proof stem.
- Low operating torque to reduce automation costs.
- Mounting pad complied with ISO 5211 for ease and interchangeability of actuation.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Re, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, ASI 722.1/1722.2 are upon request.
- Tested according to APT 598.







Materials List:

NO.	PARTS	S-332T
1	BODY	ASTM A35 I-CF8M
2	END CAP	ASTM A35 I-CF8M
3	BALL	ASTM A351-CF8M/316
4	SEAT	REINFORCED TFE
5	GASKET	PTFE
6	THRUST WASHER	PTFE
7	STEM PACKING	PTFE
8	GLAND	AISI 304
9	STEM	ASTM A276-316
10	HANDLE WASHER	AISI 304
11	HANDLE NUT	AISI 304
12	BOLT	AISI 304/GR.B8
13	NUT	AISI 304/GR.8
14	BOLT WASHER	AISI 304
15	HANDLE	AISI 304
16	HANDLE COVER	PVC
17	STOP SCREW	AISI 304

OPTIONS:

- L: LOCKING DEVICE.
- V: VENTED BALL.
- P: EQUIPPED WITH PNEUMATIC ACTUATOR

Dimension

Size		Ø D		L		I		Ø J		K		Ø G		M	H		W	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm	in	mm	in	mm
¼	8	0.43	11	2.56	65	0.2	5	0.31	8	0.37	9.5	1.42	36	M5	2.13	54	5.31	135
⅜	10	0.49	12.5	2.56	65	0.2	5	0.31	8	0.37	9.5	1.42	36	M5	2.13	54	5.31	135
½	15	0.59	15	2.76	70	0.2	5	0.31	8	0.47	12	1.42	36	M5	2.24	57	5.31	135
¾	20	0.79	20	3.15	80	0.24	6	0.39	10	0.54	13.7	1.42	36	M5	2.46	62.5	5.31	135
1	25	1	25.4	3.54	90	0.31	8	0.47	12	0.7	17.7	1.65	42	M5	2.7	68.5	6.5	165
1 ¼	32	1.26	32	4.13	105	0.31	8	0.47	12	0.7	17.7	1.65	42	M5	2.91	74	6.5	165
1 ½	40	1.5	38	4.72	120	0.31	8	0.55	14	0.71	18	1.97	50	M6	3.56	90.5	6.89	175
2	50	1.97	50	5.28	134	0.31	8	0.55	14	0.71	18	1.97	50	M6	3.92	99.5	6.89	175
2 ½	65	2.56	65	6.5	165	0.47	12	0.79	20	1.14	29	2.76	70	M8	5.06	128.5	9.57	243
3	80	3.15	80	7.28	185	0.47	12	0.79	20	1.14	29	2.76	70	M8	5.49	139.5	9.57	243

3-PIECE FULL PORT STAINLESS STEEL BALL VALVES

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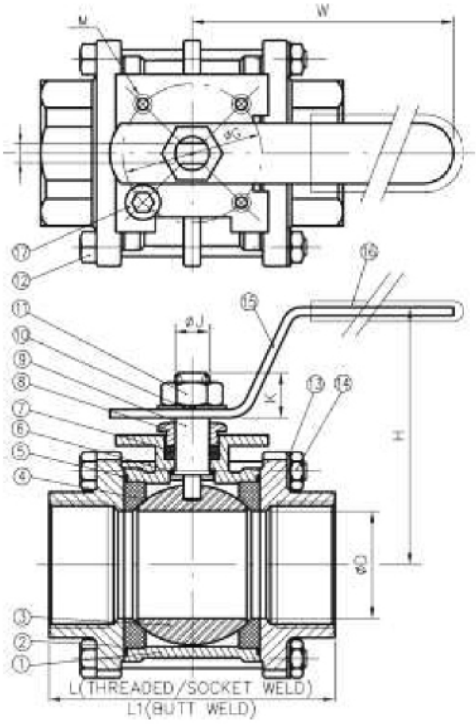
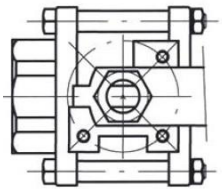
FIG. S-332S: SOCKET WELD ENDS, ¼" TO 2": 2000 WOG 2 ½" TO 3":1500 WOG ISO 5211 MOUNTING PAD.

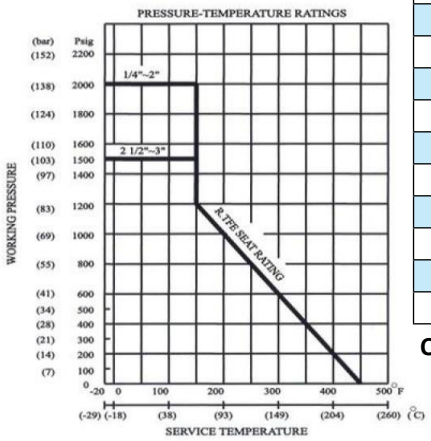
Features:

- Three-piece design for fast, economical in-line maintenance.
- Strengthened construction secures 2000 psi working pressure rating.
- Reinforced TFE seats increase durability.
- Adjustable packing gland.
- Bottom-loaded blow-out proof stem.
- Low operating torque to reduce automation costs.
- Mounting pad complied with ISO 5211 for ease and interchangeability of actuation.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- Tested according to APT 598.





FOR 2 1/2"~3"



Materials List:

NO.	PARTS	S-332S
1	BODY	ASTM A35 I-CF8M
2	END CAP	ASTM A35 I-CF8M
3	BALL	ASTM A351-CF8M/316
4	SEAT	REINFORCED TFE
5	GASKET	PTFE
6	THRUST WASHER	PTFE
7	STEM PACKING	PTFE
8	GLAND	AISI 304
9	STEM	ASTM A276-316
10	HANDLE WASHER	AISI 304
11	HANDLE NUT	AISI 304
12	BOLT	AISI 304/GR.B8
13	NUT	AISI 304/GR.8
14	BOLT WASHER	AISI 304
15	HANDLE	AISI 304
16	HANDLE COVER	PVC
17	STOP SCREW	AISI 304

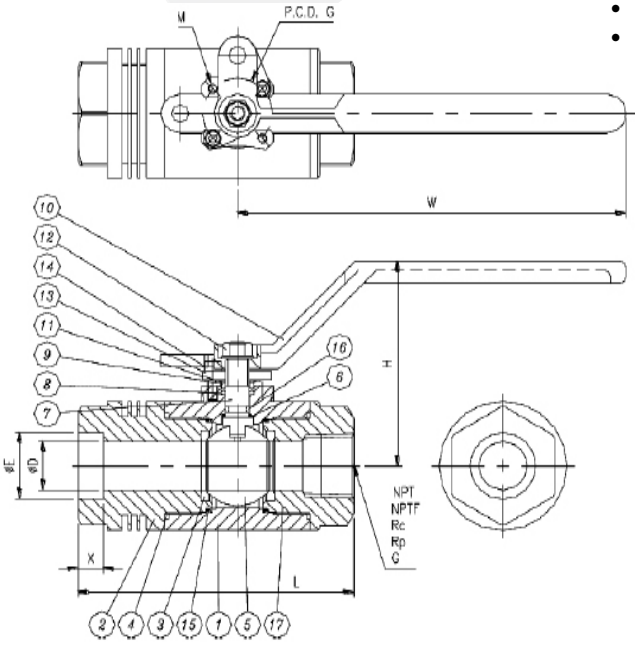
OPTIONS:

- L: LOCKING DEVICE.
- V: VENTED BALL.
- P: EQUIPPED WITH PNEUMATIC ACTUATOR

Dimension

Size		Ø D		L		I		Ø J		K		Ø G		M	H		W	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm	in	mm	in	mm
¼	8	0.43	11	2.56	65	0.2	5	0.31	8	0.37	9.5	1.42	36	M5	2.13	54	5.31	135
⅜	10	0.49	12.5	2.56	65	0.2	5	0.31	8	0.37	9.5	1.42	36	M5	2.13	54	5.31	135
½	15	0.59	15	2.76	70	0.2	5	0.31	8	0.47	12	1.42	36	M5	2.24	57	5.31	135
¾	20	0.79	20	3.15	80	0.24	6	0.39	10	0.54	13.7	1.42	36	M5	2.46	62.5	5.31	135
1	25	1	25.4	3.54	90	0.31	8	0.47	12	0.7	17.7	1.65	42	M5	2.7	68.5	6.5	165
1 ¼	32	1.26	32	4.13	105	0.31	8	0.47	12	0.7	17.7	1.65	42	M5	2.91	74	6.5	165
1 ½	40	1.5	38	4.72	120	0.31	8	0.55	14	0.71	18	1.97	50	M6	3.56	90.5	6.89	175
2	50	1.97	50	5.28	134	0.31	8	0.55	14	0.71	18	1.97	50	M6	3.92	99.5	6.89	175
2 ½	65	2.56	65	6.5	165	0.47	12	0.79	20	1.14	29	2.76	70	M8	5.06	128.5	9.57	243
3	80	3.15	80	7.28	185	0.47	12	0.79	20	1.14	29	2.76	70	M8	5.49	139.5	9.57	243

FIG. C-333ST: 3000 WOG CLASS 1500 EXTENDED SOCKET WELD X THREADED ENDS NACE MR-01-75 ¼" to 1 ½": Full Port 2": Standard Port, ISO 5211 Mounting Pad



Features:

- Forged steel body construction secures Class 1500/3000 psi working pressure rating.
- LF2 valve body & socket weld end cap for low-temperature applications.
- Special design of extended socket weld end facilitates heat dissipation during welding. No prior disassembly of valve is required therefore welding installation process is shortened.
- Use of body O-ring and body joint gasket double secures NO LEAKAGE.
- Live-loaded packing gland for self-adjustment of stem packing compression.
- Rugged lockable lever handles for safety and long service life.
- Body O-rings are placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media.
- Gland bolts allow for easy packing adjustment without handle removal.
- Pressure equalizing seats & Bottom-loaded blow-out proof stem. Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling.
- Full compliance with ASME/ANSI B16.34 & EN12516-1.
- Socket weld ends complied with ANSI B16.11 & EN 12760. NPT threaded ends complied with ANSI B1.20.1.
- Fire-safe per API 607, including Graphite gasket,
- Graphite stem packing & post-fire metal-to-metal seal.
- Anti-static device.
- Tested according to API 598.

Materials:

No.	Part Name	C-333ST-LF2
1	Body	ASTM A350-LF2
2	End cap	ASTM A350-LF2
3	Seat	TFM 4215
4	Gasket	Graphite
5	Ball	ASTM A351-CF8M/316
6	Thrust Washer	TFM1600
7	Stem	17-4 PH(ASTM A564 Type 630)
8	Stem Packing	Graphite
9	Gland	AISI 304
10	Handle	Carbon Steel
11	Belleville Washer	AISI 301
12	Handle Nut	Carbon Steel
13	Gland Flange	Carbon Steel
14	Gland Bolt	AISI 304
15	Body O-Ring	HSN (HNBR)
16	Stem O-Ring	HSN (HNBR)
17	Threaded End Cap	ASTM A352-LCC

Dimension:

Size		Ø D		Ø E		L		H		W		X		Ø G		M
in	mm	in	mm	in	mm	In	mm	in	mm	in	mm	in	mm	in	mm	
½	15	0.49	12.5	0.86	21.8	4.61	117	3.15	80	6.3	160	0.39	10	1.42	36	M5
¾	20	0.79	20	1.07	27.2	5.98	152	3.9	99	7.87	200	0.51	13	1.42	36	M5
1	25	0.98	25	1.33	33.9	6.46	164	4.09	104	7.87	200	0.51	13	1.42	36	M5
1 ½	40	1.5	38	1.92	48.8	7.87	200	5.03	127.7	9.84	250	0.51	13	1.97	50	M6
2	50	1.5	38	2.41	61.2	8.07	205	5.03	127.7	9.84	250	0.64	16.2	1.97	50	M6

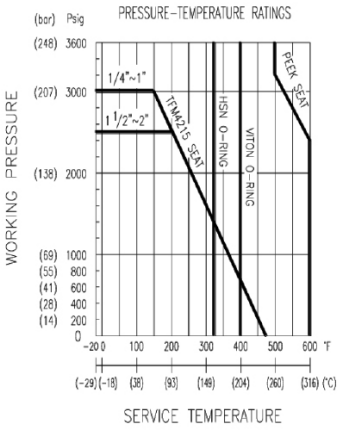
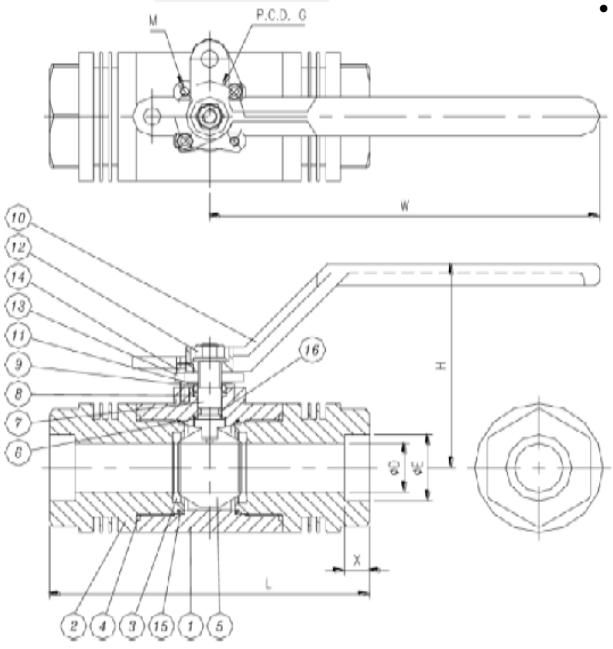


FIG. C-333SS: 3000 WOG CLASS 1500 EXTENDED SOCKET WELD X SOCKET WELD ENDS NACE MR-01-75 ¼" to 1 ½": Full Port 2": Standard Port, ISO 5211 Mounting Pad

Features:

- Forged steel body construction secures Class 1500/3000 psi working pressure rating.
- LF2 valve body & end caps for low-temperature applications.
- Special design of extended socket weld end facilitates heat dissipation during welding. No prior disassembly of valve is required therefore welding installation process is shortened.
- Use of body O-ring and body joint gasket double secures NO LEAKAGE.
- Live-loaded packing gland for self-adjustment of stem packing compression.
- Rugged lockable lever handles for safety and long service life.
- Body O-rings are placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media.
- Gland bolts allow for easy packing adjustment without handle removal.
- Pressure equalizing seat & Bottom-loaded blow-out proof stem.
- Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling.
- Full compliance with ASME/ANSI B16.34 & EN 12516-1.
- Socket weld ends complied with ANSI B16.11 &EN 12760.
- Anti-static device.
- Fire-safe per API 607, including Graphite gasket, Graphite stem packing & post-fire metal-to-metal seal.
- Tested according to API 598.



Materials:

No.	Part Name	C-333SS-LF2
1	Body	ASTM A350-LF2
2	End cap	ASTM A350-LF2
3	Seat	TFM 4215
4	Gasket	Graphite
5	Ball	ASTM A351-CF8M/316
6	Thrust Washer	TFM1600
7	Stem	17-4 PH(ASTM A564 Type 630)
8	Stem Packing	Graphite
9	Gland	AISI 304
10	Handle	Carbon Steel
11	Belleville Washer	AISI 301
12	Handle Nut	Carbon Steel
13	Gland Flange	Carbon Steel
14	Gland Bolt	AISI 304
15	Body O-Ring	HSN (HNBR)
16	Stem O-Ring	HSN (HNBR)

Dimension:

Size		Ø D		Ø E		L		H		W		X		Ø G		M
in	mm	in	mm	in	mm	In	mm	in	mm	in	mm	in	mm	in	mm	
½	15	0.49	12.5	0.86	21.8	4.61	117	3.15	80	6.3	160	0.39	10	1.42	36	M5
¾	20	0.79	20	1.07	27.2	5.98	152	3.9	99	7.87	200	0.51	13	1.42	36	M5
1	25	0.98	25	1.33	33.9	6.46	164	4.09	104	7.87	200	0.51	13	1.42	36	M5
1 ½	40	1.5	38	1.92	48.8	7.87	200	5.03	127.7	9.84	250	0.51	13	1.97	50	M6
2	50	1.5	38	2.41	61.2	8.07	205	5.03	127.7	9.84	250	0.64	16.2	1.97	50	M6

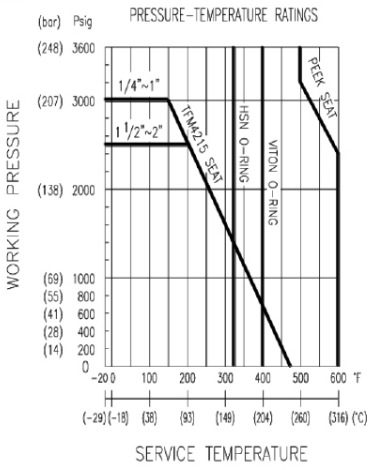
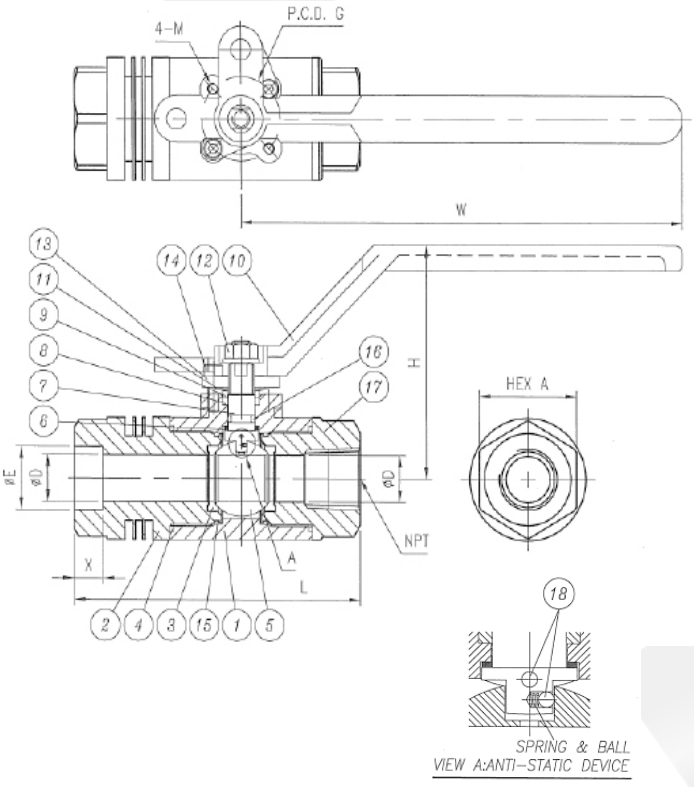


FIG. C-336ST: 6000 WOG CLASS 2500 EXTENDED SOCKET WELD X THREADED ENDS ½" to 1½": FULL PORT 2": STANDARD PORT ISO 5211 MOUNTING PAD NACE MR-01-75

Features:

- Forged steel body construction secures Class 2500/6000 psi working pressure rating.
- LF2 valve body & socket weld end cap for low-temperature applications.
- Special design of extended socket weld end facilitates heat dissipation during welding. No prior disassembly of valve is required therefore welding installation process is shortened.
- Use of body O-ring and body joint gasket double secures NO LEAKAGE.
- Live-loaded packing gland for self-adjustment of stem packing compression.
- Rugged lockable lever handles for safety and long service life.
- Body O-rings are placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media.
- Gland bolts allow for easy packing adjustment without handle removal.
- Pressure equalizing seats & Bottom-loaded blow-out proof stem. Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling.
- Full compliance with ASME/ANSI B16.34 & EN12516-1.
- Socket weld ends complied with ANSI B16.11 & EN 12760.
- NPT threaded ends complied with ANSI B1.20.1.
- NPTF threaded ends complied with ANSI B1.20.3.
- Tested according to API 598.



Materials:

No.	Part Name	C-336ST-LF2
1	Body	ASTM A350-LF2
2	End cap	ASTM A350-LF2
3	Seat	PEEK
4	Gasket	Graphite
5	Ball	CF8M/316
6	Thrust Washer	PEEK
7	Stem	ASTM A564-630
8	Stem Packing	Graphite
9	Gland	AISI 304
10	Handle	Carbon Steel
11	Belleville Washer	AISI 301
12	Handle Nut	Carbon Steel
13	Gland Flange	Carbon Steel
14	Gland Bolt	AISI 304
15	Body O-Ring	HSN (HNBR)
16	Stem O-Ring	HSN (HNBR)
17	Threaded End Cap	ASTM A352-LCC
18	ANTI-STATIC DEVICE	AISI 316

Dimension:

Size		Ø D		Ø E		L		H		W		X		A		Ø G		M
in	mm	in	mm	in	mm	In	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
½	15	0.49	12.5	0.86	21.8	4.61	117	3.17	80.5	6.3	160	0.39	10	1.50	38	1.42	36	M5
¾	20	0.79	20	1.07	27.2	5.98	152	3.92	99.5	7.87	200	0.51	13	1.73	44	1.42	36	M5
1	25	0.98	25	1.33	33.9	6.46	164	4.09	104	7.87	200	0.51	13	2.09	53	1.42	36	M5
1 ½	40	1.5	38	1.92	48.8	7.87	200	5.07	128.7	9.84	250	0.51	13	2.91	74	1.97	50	M6
2	50	1.5	38	2.41	61.2	8.07	205	5.07	128.7	9.84	250	0.64	16.2	3.62	92	1.97	50	M6

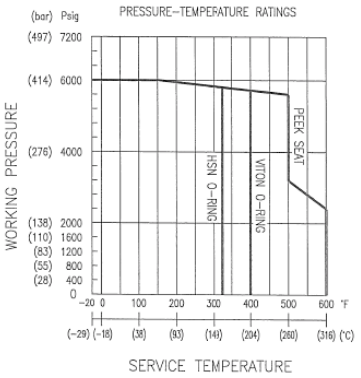
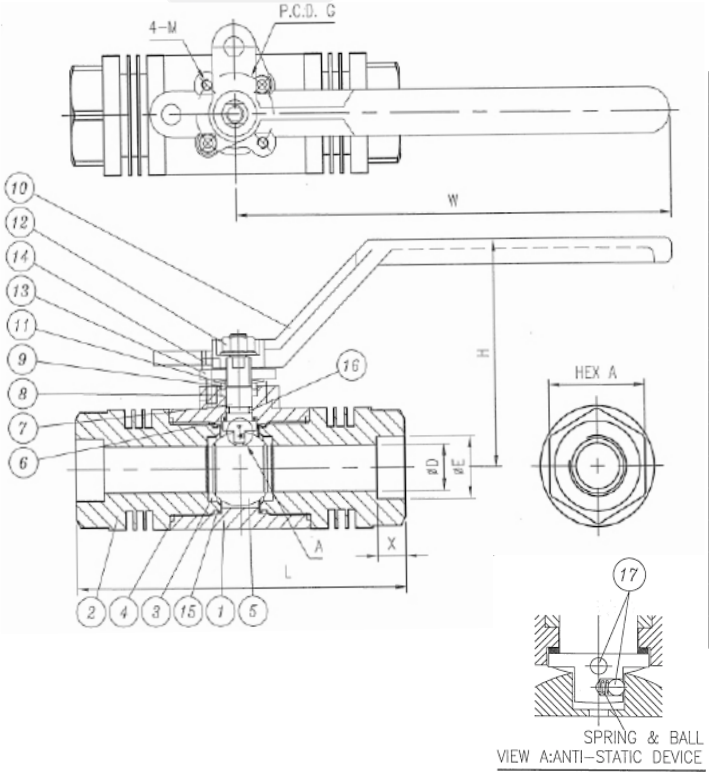


FIG. C-336SS: 6000 WOG CLASS 2500 EXTENDED SOCKET WELD X SOCKET WELD ENDS ¼" TO 1 ½": FULL PORT, 2": STANDARD PORT ISO 5211 MOUNTING PAD NACE MR-01-75

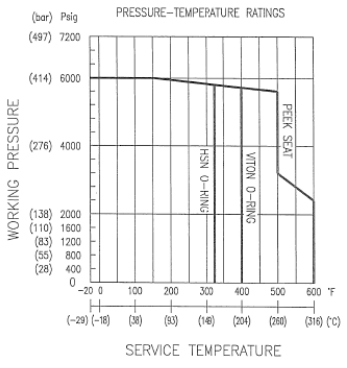
Features:

- Forged steel body construction secures Class 2500/6000 psi working pressure rating.
- LF2 valve body & end caps for low-temperature applications.
- Special design of extended socket weld end facilitates heat dissipation during welding. No prior disassembly of valve is required therefore welding installation process is shortened.
- Use of body O-ring and body joint gasket double secures NO LEAKAGE.
- Live-loaded packing gland for self-adjustment of stem packing compression.
- Rugged lockable lever handles for safety and long service life.
- Body O-rings are placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media.
- Gland bolts allow for easy packing adjustment without handle removal.
- Pressure equalizing seats & Bottom-loaded blow-out proof stem.
- Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling.
- Full compliance with ASME/ANSI B16.34 & EN12516-1.
- Socket weld ends complied with ANSI B16.11 & EN 12760.
- Tested according to API 598.



Materials:

No.	Part Name	C-336SS-LF2
1	Body	ASTM A350-LF2
2	End cap	ASTM A350-LF2
3	Seat	PEAK
4	Gasket	Graphite
5	Ball	CF8M/316
6	Thrust Washer	PEEK
7	Stem	ASTM A564-630
8	Stem Packing	Graphite
9	Gland	AISI 304
10	Handle	Carbon Steel
11	Belleville Washer	AISI 301
12	Handle Nut	Carbon Steel
13	Gland Flange	Carbon Steel
14	Gland Bolt	AISI 304
15	Body O-Ring	HSN (HNBR)
16	Stem O-Ring	HSN (HNBR)
17	ANTI-STATIC DEVICE	AISI 316



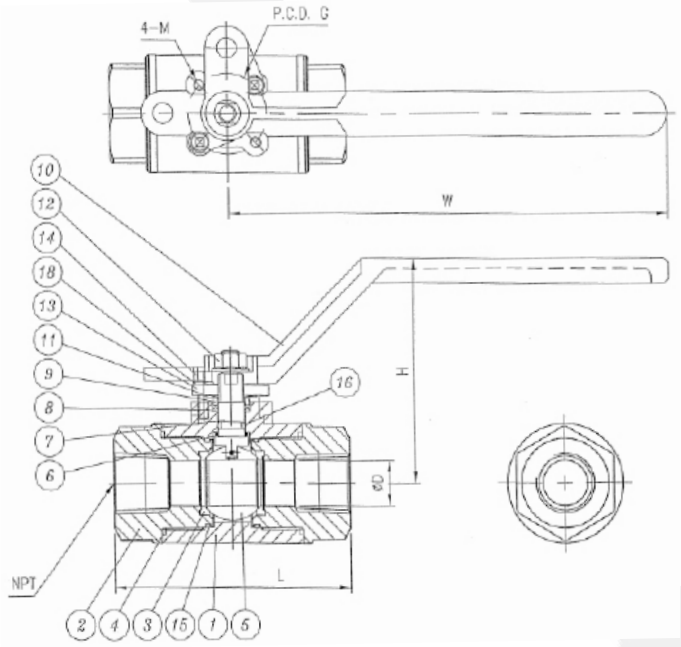
Dimension:

Size		Ø D		Ø E		L		H		W		X		A		Ø G		M
in	mm	in	mm	in	mm	In	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
½	15	0.49	12.5	0.86	21.8	4.61	117	3.17	80.5	6.3	160	0.39	10	1.50	38	1.42	36	M5
¾	20	0.79	20	1.07	27.2	5.98	152	3.92	99.5	7.87	200	0.51	13	1.73	44	1.42	36	M5
1	25	0.98	25	1.33	33.9	6.46	164	4.09	104	7.87	200	0.51	13	2.09	53	1.42	36	M5
1 ½	40	1.5	38	1.92	48.8	7.87	200	5.07	128.7	9.84	250	0.51	13	2.91	74	1.97	50	M6
2	50	1.5	38	2.41	61.2	8.07	205	5.07	128.7	9.84	250	0.64	16.2	3.62	92	1.97	50	M6

FIG. C-336TT: 6000 WOG CLASS 2500 THREADED ENDS ¼" TO 1 ½": FULL PORT 2": STANDARD PORT ISO 5211 MOUNTING PAD NACE MR-01-75

Features:

- Strengthened body construction secures Class 2500/6000 psi working pressure rating.
- Use of body O-ring and body joint gasket double secures NO LEAKAGE.
- Live-loaded packing gland for self-adjustment of stem packing compression.
- Rugged lockable lever handles for safety and long service life.
- Body O-rings are placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media.
- Gland bolts allow for easy packing adjustment without handle removal.
- Pressure equalizing seats & Bottom-loaded blow-out proof stem.
- Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling.
- Full compliance with ASME/ANSI B16.34 & EN12516-1.
- NPT threaded ends complied with ANSI B1.20.1.
- NPTF threaded ends complied with ANSI B1.20.3.
- Rc, Rp & G Threaded ends complied with BS 21 /2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS 1722.1/1722.2 are upon request.
- Tested according to API 598.

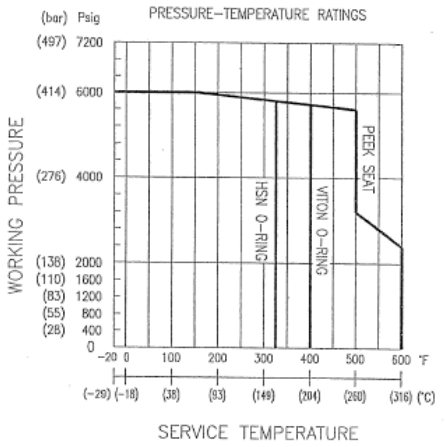


Materials:

No.	Part Name	C-336TT-LCC
1	Body	ASTM A350-LCC
2	End cap	ASTM A350-LCC
3	Seat	PEEK
4	Gasket	Graphite
5	Ball	CF8M/316
6	Thrust Washer	PEEK
7	Stem	ASTM A564-630
8	Stem Packing	Graphite
9	Gland	AISI 304
10	Handle	Carbon Steel
11	Belleville Washer	AISI 301
12	Handle Nut	AISI 304
13	Gland Flange	Carbon Steel
14	Stop Screw	AISI 304
15	Body O-Ring	HSN (HNBR)
16	Stem O-Ring	HSN (HNBR)

Dimension:

Size		Ø D		L		H		W		Ø G		M
in	mm	in	mm	In	mm	in	mm	in	mm	in	mm	
½	15	0.49	12.5	3.74	95	3.15	80	6.3	160	1.42	36	M5
¾	20	0.79	20	4.25	108	3.9	99	7.87	200	1.42	36	M5
1	25	0.98	25	4.72	120	4.09	104	7.87	200	1.42	36	M5
1 ½	25	1.50	38	5.59	142	5.03	127.7	9.84	250	1.97	50	M6
2	25	1.50	38	6.10	155	5.03	127.7	9.84	250	1.97	50	M6



3-PIECE FULL PORT
STAINLESS STEEL BALL VALVES

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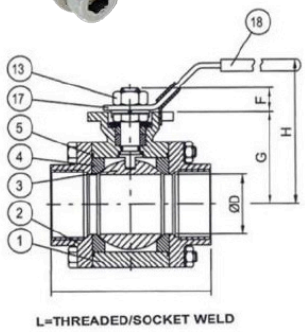
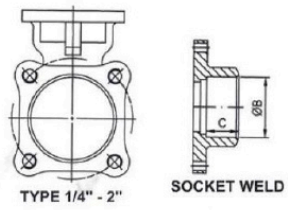
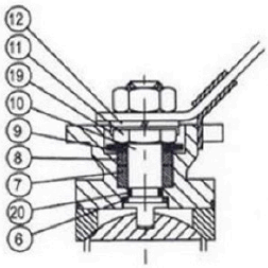
FIG. S-362T: 2000 WOG THREADED ENDS ENCLOSED BOLT TYPE ISO 5211 MOUNTING PAD

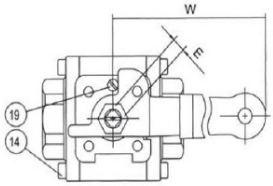
Features:

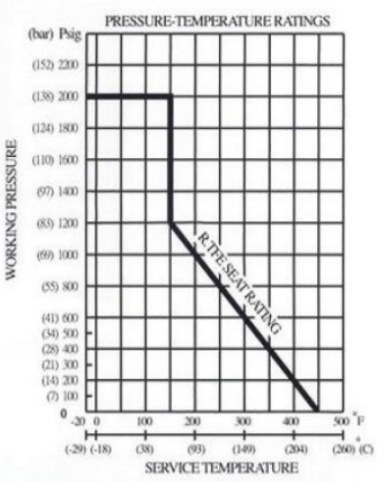
- Strengthened construction and enclosed bolt design secure 200 psi working pressure rating.
- Reinforced TFE seats increase durability.
- Live-loaded packing gland design for self-adjustment of packing compression.
- Mounting pad complied with ISO 5211 for ease and interchangeability of actuation.
- Basic design complied with ANSI B16.34 & EN 12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request.
- Tested according to API 598.











Materials List:

NO.	PARTS	SPECIFICATION
1	BODY	ASTM A35 I-CF8M
2	END CAP	ASTM A35 I-CF8M
3	BALL	ASTM A351-CF8M/316
4	SEAT	REINFORCED TFE
5	GASKET	PTFE
6	THRUST WASHER	PTFE
7	STEM PACKING	PTFE
8	GLAND	AISI 304
9	BELLEVILLE WASHER	AISI 304
10	STEM	ASTM A276-316
11	PACKING NUT	AISI 304
12	SPRING WASHER	AISI 304
13	HANDLE NUT	AISI 304
14	BOLT	AISI 304
15	NUT	AISI 304
16	BOLT WASHER	AISI 304
17	HANDLE	AISI 304
18	HANDLE COVER	PVC
19	LOCK SADDLE	AISI 304
20	O-RING	VITON
21	STOP SCREW	AISI 304

OPTIONS:

- L: LOCKING DEVICE.
- V: VENTED BALL.
- P: EQUIPPED WITH PNEUMATIC ACTUATOR

Dimension:

Size		Ø D		L		E		F		G		H		W		Ø B		C		ISO 5211
in	mm	in	mm	in	mm	In	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
¼	8	0.43	11	2.91	74	0.35	9	0.31	8	1.65	42	3.15	80	5.31	135	0.56	14.2	0.39	10	F03-F04
⅜	10	0.49	12.5	2.91	74	0.35	9	0.31	8	1.65	42	3.15	80	5.31	135	0.69	17.6	0.39	40	F03-F04
½	15	0.59	15	2.91	74	0.35	9	0.31	8	1.65	42	3.15	80	5.31	135	0.86	21.8	0.51	13	F03-F04
¾	20	0.79	20	3.27	83	0.35	9	0.31	8	1.81	46	3.31	84	5.31	135	1.07	27.2	0.59	15	F03-F04
1	25	1	25.4	3.7	94	0.43	11	0.51	13	2.01	51	3.54	90	6.5	165	1.33	33.9	0.59	15	F04-F05
1 ¼	32	1.26	32	4.13	105	0.43	11	0.51	13	2.2	56	3.66	93	6.5	165	1.68	42.7	0.59	15	F04-F05
1 ½	40	1.5	38	4.72	120	0.55	14	0.75	19	2.64	67	4.21	107	7.68	195	1.92	48.8	0.63	16	F05-F07
2	50	1.97	50	5.35	136	0.55	14	0.75	19	2.99	76	4.57	116	7.68	195	2.41	61.2	0.67	17	F05-F07

3 WAY FULL PORT STAINLESS STEEL BALL VALVE

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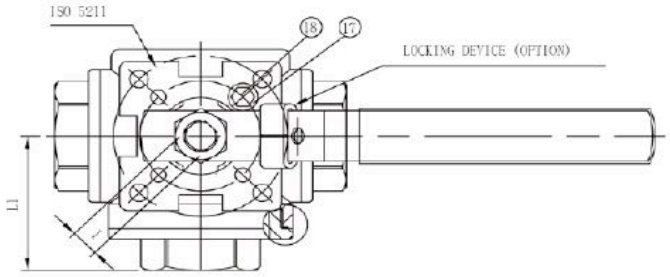
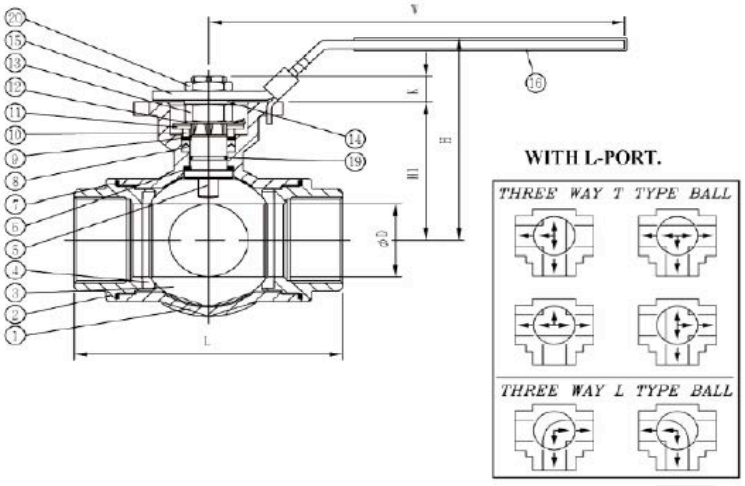
FIG. S-431TDT / DL: 1000 WOG THREADED ENDS T/L PORT ISO 5211 DIRECT ACTUATOR MOUNTING PAD

Features:

- Actuator can be installed directly on the mounting pad without using bracket & coupling.
- Live-loaded packing gland design for self-adjustment of packing compression.
- Chevron V type packing to further ensure no leakage.
- Full port design to avoid pressure drop.
- Bottom-loaded blow-out proof stem. Low operating torque to reduce automation costs.
- Basic design complied with ANSI B16.34 & EN12516-1.
- NPT threaded ends complied with ANSI B 1.20.1.
- Rc, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999 ISO 228-1, AS1722.1/1722.2 are upon request.
- Tested according to API 598.





Materials List:

No.	Part Name	Specification
1	Body	ASTM A351-CF8M/316
2	End Cap	ASTM A351-CF8M/316
3	Ball	ASTM A351-CF8M/316
4	Seat	PTFE
5	Stem	ASTM A276-316
6	Thrust washer	PTFE
7	Gasket	PTFE
8	Stem Packing	PTFE
9	Packing Protector	TFM1600
10	Gland	AISI 304
11	Belleville Washer	AISI 304
12	Nut Lock	AISI 304
13	Packing Nut	AISI 304
14	Washer	AISI 304
15	Handle	AISI 304
16	Handle Cover	PVC
17	Handle Stopper	AISI 304
18	Stop Screw	AISI 304
19	O-ring	Viton
20	Handle Nut	AISI 304

OPTIONS:

- P: EQUIPPED WITH PNEUMATIC ACTUATOR
- L: LOCKING DEVICE.

Dimension:

Size		Ø D		L		I		L1		K		W		H		ISO 5211	H1	
in	mm	In	mm	in	mm	in	In	In	mm	in	mm	In	mm	In	mm		In	mm
¼	8	0.43	11	2.99	76	0.35	9	1.51	38.3	0.32	8.2	5.2	132	2.56	65	F03-F04	1.45	36.8
⅜	10	0.43	11	2.99	76	0.35	9	1.51	38.3	0.32	8.2	5.2	132	2.56	65	F03-F04	1.45	36.8
½	15	0.63	15	3.41	86.5	0.35	9	1.76	44.7	0.35	9	5.2	132	2.81	71.5	F03-F04	1.74	44.1
¾	20	0.79	20	4.06	103	0.43	11	2	50.8	0.45	11.5	7.09	180	3.7	94	F04-F05	2.17	55.1
1	25	0.98	25	4.65	118	0.43	11	2.27	57.7	0.45	11.5	7.09	180	3.94	100	F04-F05	2.39	60.7
1 ¼	32	1.26	32	4.96	126	0.55	14	2.46	62.6	0.59	15.1	8.86	225	4.57	116	F05-F07	2.96	75.2
1 ½	40	1.5	38	5.87	149	0.55	14	2.93	74.3	0.59	15.1	8.86	225	4.92	125	F05-F07	3.32	84.4
2	50	1.97	50	6.73	171	0.67	17	3.37	85.6	0.71	18	10.51	267	5.47	139	F07-F10	3.72	94.6

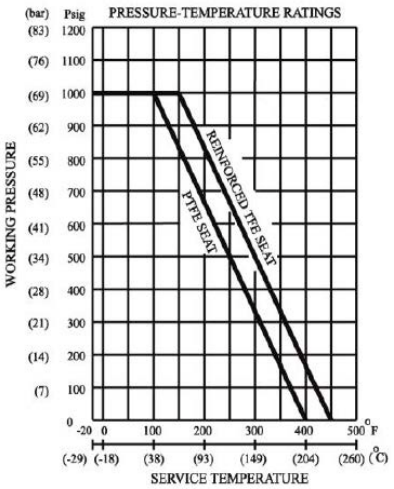


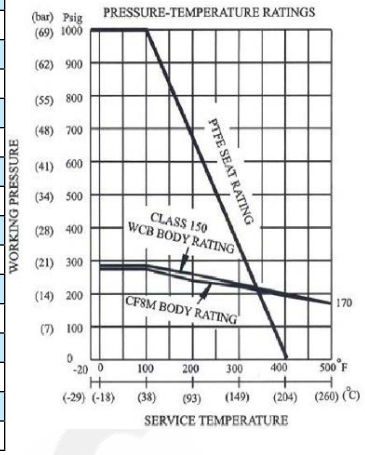
FIG. C-235F-F: CLASS 150 2-PIECE CARBON STEEL FULL PORT BALL VALVE FLANGED ISO 5211 MOUNTING PAD API 607 FIRE-SAFE DESIGNED

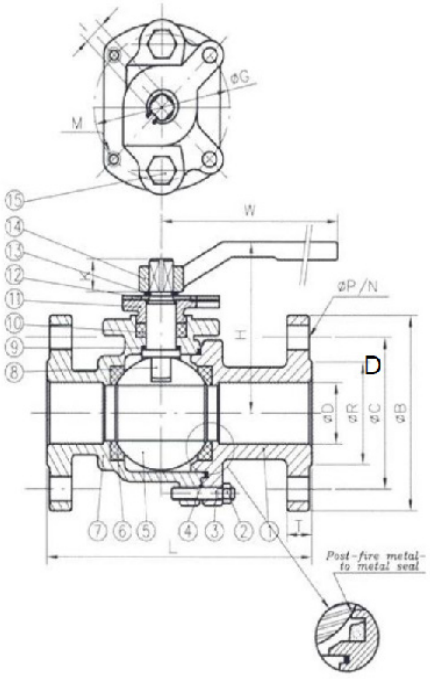
Features:

- Split body design with flanged ends for fast installation, in-line maintenance and rebuilding. Solid ball construction provides structural integrity and minimizes flow turbulence.
- Body join is designed to prevent excessive compression of valve internals, resulting in consistent and low operating torque.
- Mounting pad complied with ISO 5211 for ease and interchangeability of actuation
- Bottom-loaded blow-out proof stem.
- Investment cast body & cap on sizes ½" to 4". Sand cast body & cap on sizes 5" to 10".
- Basic design complied with ASME/ANSI B16.34
- Flanged ends complied with ASME/ANSI B16.5
- Face-to-face dimensions complied with ASME/ANSI B16.10
- Graphite gasket & stem packing prevent post-fire external leakage.
- Post-fire metal-to-metal seal prevents internal leakage after fire. Tested according to API 598 & ANSI B 16.34

Materials:

No.	Part Name	Specification
1	End Cap	ASTM A216-WCB
2	Nut	CARBON STEEL / GR. 2H
3	Body Joint Bolt	CARBON STEEL / GR. B7
4	Gasket	GRAPHITE
5	Ball	ASTM A351-CF8 / 304
6	Seat	PTFE
7	Body	ASTM A216-WCB
8	Stem	ASTM A276-304
9	Thrust Washer	PTFE
10	Stem Packing	GRAPHITE
11	Gland	ASTM A351-CF8
12	Handle Stopper	AISI 304
13	Snap Ring	AISI 420
14	Handle	FCD 45
15	Gland Bolt	AISI 304





OPTIONS:

- F: FIRE-SAFE DESIGN.
- G: EQUIPPED WITH GEAR OPERATOR.
- P: EQUIPPED WITH PNEUMATIC ACTUATOR
- V: VENTED BALL
- A: ANTI-STATIC DEVICE

Dimention of Mounting Pad:

Size		I		K		ØG		M
in	mm	in	mm	in	mm	in	mm	
½	15	0.39	10	0.69	17.5	1.65	42	M5
¾	20	0.39	10	0.69	17.5	1.65	42	M5
1	25	0.47	12	0.86	22	1.97	50	M6
1 ½	40	0.67	17	1.1	28	2.75	70	M8
2	50	0.67	17	1.1	28	2.75	70	M8
2 ½	65	0.86	22	1.22	31	4.01	102	M10
3	80	0.86	22	1.22	31	4.01	102	M10
4	100	0.94	24	1.3	33	4.01	102	M10
5	125	1.06	27	1.3	33	4.92	125	M12
6	150	1.06	27	1.46	37	4.92	125	M12
8	200	1.38	35	1.57	40	5.51	140	M16
10	250	1.38	35	1.57	40	5.51	140	M16

Dimension:

Size		Ø D		L		T		ØR		ØC		ØB		ØP			H		W	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	N	in	mm	in	mm
½	15	0.59	15	4.25	108	0.44	11.18	1.38	35.1	2.38	60.5	3.5	88.9	0.62	15.75	4	3.15	80	5.12	130
¾	20	0.79	20	4.62	117	0.44	11.18	1.69	42.9	2.75	69.5	3.88	98.6	0.62	15.75	4	3.27	83	5.12	130
1	25	1	25.4	5	127	0.44	11.18	2	50.8	3.12	79.2	4.25	108	0.62	15.75	4	3.82	97	6.3	160
1 ½	40	1.57	40	6.5	165	0.56	14.22	2.88	73.2	3.88	98.6	5	127	0.62	15.75	4	4.37	111	9.06	230
2	50	1.97	50	7	178	0.62	15.75	3.62	91.9	4.75	120.7	6	152.4	0.75	19.05	4	4.65	118	9.06	230
2 ½	65	2.56	65	7.5	191	0.69	17.53	4.12	104.6	5.5	139.7	7	177.8	0..75	19.05	4	5.67	144	15.75	400
3	80	3.15	80	8	203	0.75	19.05	5	127	6	152.4	7.5	190.5	0.75	19.05	4	6.06	154	15.75	400
4	100	3.94	100	9	229	0.94	23.88	6.19	157.2	7.5	190.5	9	228.6	0.75	19.05	8	6.85	174	18.11	460
5	125	4.92	125	14	356	0.94	23.88	7.31	185.7	8.5	215.9	10	254	0.88	22.35	8	8.66	220	21.65	550
6	150	5.91	150	15.5	394	1	25.4	8.5	215.9	9.5	241.3	11	279.4	0.88	22.35	8	9.45	240	21.65	550
8	200	7.87	200	18	457	1.12	28.45	10.62	269.7	11.75	298.5	13.5	342.9	0.88	22.35	8	11.81	300	39.37	1000
10	250	9.84	250	21	533	1.19	30.23	12.75	323.9	14.25	362	16	406.4	1	25.4	12	13.98	355	39.37	1000

2-PIECE FULL PORT
STAINLESS STEEL FLANGED BALL VALVE

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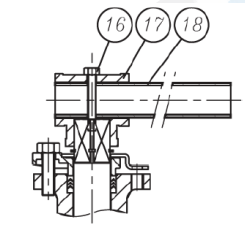
FIG. S-235F: CLASS 150 FLANGED ENDS ISO 5211 MOUNTING PAD

Features:

- Split body design with flanged ends for fast installation, in-line maintenance and rebuilding. Solid ball construction provides structural integrity and minimizes flow turbulence.
- Body join is designed to prevent excessive compression of valve internals, resulting in a consistent and low operating torque.
- Mounting pad complied with ISO 5211 for ease and interchangeability of actuation.
- Bottom-loaded blow-out proof stem.
- Investment cast body & cap on sizes ½" to 8". Sand cast body & cap on sizes 10" to 12".
- Basic design complied with ASME/ANSI B16.34
- Flanged ends complied with ASME/ANSI B16.5
- Face-to-face dimensions complied with ASME/ANSI B16.10
- Tested according to API 598 & ANSI B 16.34



HANDLE FOR 6" & ABOVE

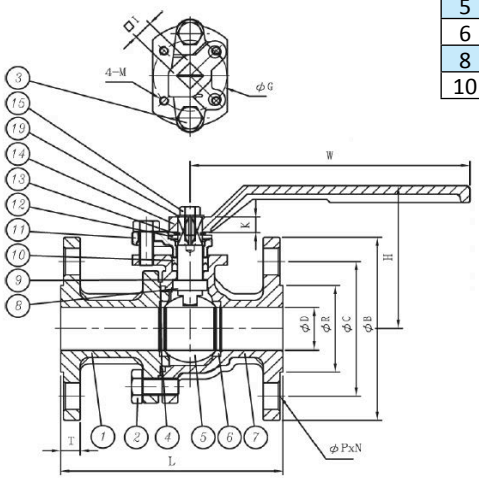
GLAND DESIGN FOR 4" & ABOVE

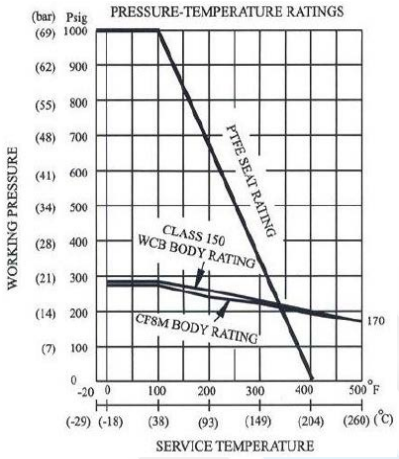
Dimensions of mounting pad:

Size		I		K		ØG		M
in	mm	in	mm	in	mm	in	mm	
½	15	0.35	9	0.3	7.5	1.65	42	M5
¾	20	0.35	9	0.3	7.5	1.65	42	M5
1	25	0.43	11	0.3	7.5	1.65	42	M5
1 ½	40	0.55	14	0.43	11	2.76	70	M8
2	50	0.55	14	0.43	11	2.76	70	M8
2 ½	65	0.67	17	0.61	15.5	2.76	70	M8
3	80	0.67	17	0.61	15.5	2.76	70	M8
4	100	0.87	22	0.71	18	4.02	102	M10
5	125	0.87	22	0.71	18	4.02	102	M10
6	150	1.06	27	1.18	30	4.92	125	M12
8	200	1.06	27	1.22	31	4.92	125	M12
10	250	1.42	36	1.38	35	5.51	140	M16

Materials List:

No.	Part Name	Specification
1	End Cap	ASTM A351-CF8M/316
2	Bolt	AISI 304
3	Gland Bolt	AISI 304
4	Gasket	PTFE
5	Ball	ASTM A351-CF8M/316
6	Seat	PTFE
7	Body	ASTM A351-CF8M/316
8	Stem	ASTM A276-316
9	Thrust Washer	PTFE
10	Stem Packing	PTFE
11	Gland	ASTM A351-CF8
12	Handle Stopper	AISI 304
13	Snap Ring	AISI 420
14	Handle	FCD 45
15	Bolt	Zinc Plated Steel
16	Bolt	Carbon Steel
17	Coupler	ASTM A216-WCB
18	Handle	Carbon Steel
19	Washer	Zinc Plated Steel





Dimension:

Size		Ø D		L		T		ØR		ØC		ØB		ØP			H		W	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	N	in	mm	in	mm
½	15	0.59	15	4.25	108	0.38	9.65	1.38	35.1	2.38	60.5	3.5	88.9	0.62	15.75	4	3.01	76.5	5.12	130
¾	20	0.79	20	4.62	117	0.41	10.41	1.69	42.9	2.75	69.9	3.88	98.6	0.62	15.75	4	3.07	78	5.12	130
1	25	1	25.4	5	127	0.44	11.18	2	50.8	3.12	79.2	4.25	108	0.62	15.75	4	3.33	84.5	6.3	160
1 ½	40	1.5	38	6.5	165	0.56	14.22	2.88	73.2	3.88	98.6	5	127	0.62	15.75	4	4.09	104	8.27	210
2	50	1.97	50	7	178	0.62	15.75	3.62	91.9	4.75	120.7	6	152.4	0.75	19.05	4	4.41	112	8.27	210
2 ½	65	2.56	65	7.5	190.5	0.69	17.53	4.12	104.6	5.5	139.7	7	177.8	0.75	19.05	4	5.28	134	12.4	315
3	80	2.99	76	8	203	0.75	19.05	5	127	6	152.4	7.5	190.5	0.75	19.05	4	5.59	142	12.4	315
4	100	3.94	100	9	228.5	0.94	23.88	6.19	157.2	7.5	190.5	9	228.6	0.75	19.05	8	7.01	178	15.75	400
5	125	4.92	125	14	356	0.94	23.88	7.31	185.7	8.5	215.9	10	254	0.88	22.35	8	7.87	200	15.75	400
6	150	5.91	150	15.5	394	1	25.4	8.5	215.9	9.5	241.3	11	279.4	0.88	22.35	8	9.11	231.5	21.46	545
8	200	7.87	200	18	457	1.12	28.45	10.62	269.7	11.75	298.5	13.5	342.9	0.88	22.35	8	11.48	291.5	35.43	900
10	250	9.84	250	21	533	1.19	30.23	12.75	323.9	14.25	362	16	406.4	1	25.4	12	13.98	355	39.37	1000

2-PIECE FULL PORT STAINLESS STEEL FLANGED BALL VALVE

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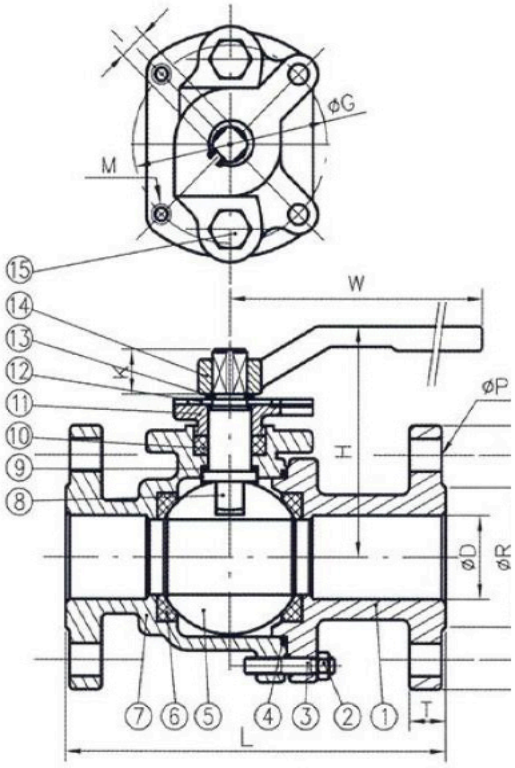
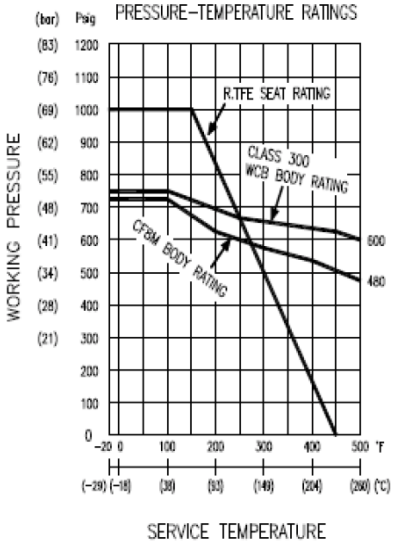
FIG. S-236F: CLASS 300 FLANGED ENDS ISO 5211 MOUNTING PAD



Features:

- Split body design with flanged ends for fast installation, in-line maintenance and rebuilding. Solid ball construction provides structural integrity and minimizes flow turbulence.
- Body join is designed to prevent excessive compression of valve internals, resulting in consistent and low operating torque.
- Mounting pad complied with ISO 5211 for ease and interchangeability of actuation
- Bottom-loaded blow-out proof stem.
- Investment cast body & cap on sizes ½" to 2". Sand cast body & cap on sizes 2½ " to 10".
- Basic design complied with ASME/ANSI B16.34 & EN 12516-1
- Flanged ends complied with ASME/ANSI B16.5
- Face-to-face dimensions complied with ASME/ANSI B16.10
- Tested according to API 598 & ANSI B 16.34



Materials List:

No.	Part Name	Specification
1	End Cap	ASTM A351-CF8M/316
2	Nut	AISI 304 / GR. 8
3	Body Joint Bolt	AISI 304 / GR. B8
4	Gasket	PTFE
5	Ball	ASTM A351-CF8M/316
6	Seat	Reinforced TFE
7	Body	ASTM A351-CF8M/316
8	Stem	ASTM A276-316
9	Thrust Washer	PTFE
10	Stem Packing	PTFE
11	Gland	ASTM A351-CF8
12	Handle Stopper	AISI 304
13	Snap Ring	AISI 420
14	Handle	FCD 45
15	Gland Bolt	AISI 304

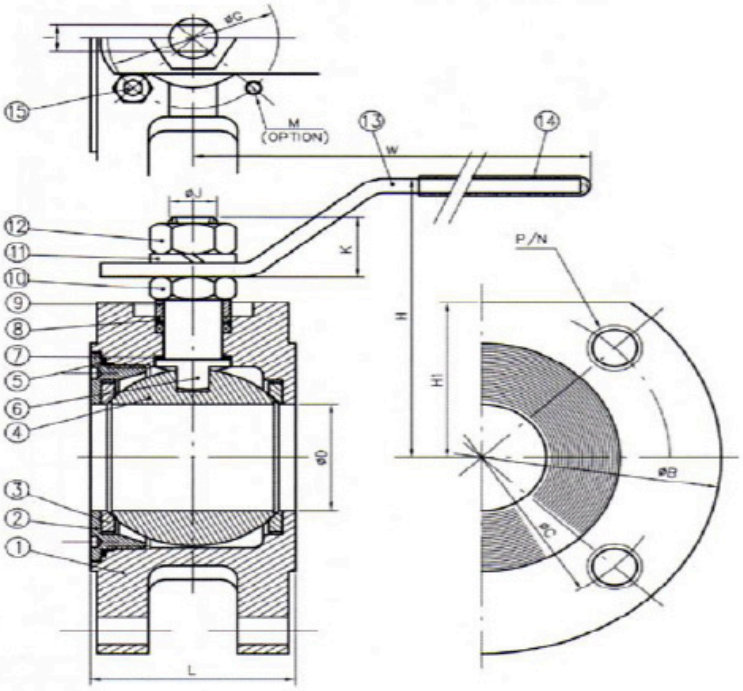
Dimension:

Size		Ø D		L		I		T		K		ØG		ØR		ØC		ØB		ØP		N	M	H		W	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm
½	15	0.59	15	5.5	140	0.39	10	0.56	14.22	0.69	17.5	1.65	42	1.38	35.1	2.62	66.5	3.75	95.3	0.62	15.75	4	M5	2.48	63	5.12	130
¾	20	0.79	20	6	152	0.39	10	0.62	15.75	0.69	17.5	1.65	42	1.69	42.9	3.25	82.6	4.62	117.3	0.75	19.05	4	M5	2.68	68	5.12	130
1	25	1	25.4	6.5	165	0.47	12	0.69	17.53	0.87	22	1.97	50	2	50.8	3.5	88.9	4.88	124	0.75	19.05	4	M6	2.99	76	6.3	160
1 ½	40	1.57	40	7.5	191	0.67	17	0.81	20.57	1.1	28	2.76	70	2.88	73.2	4.5	114.3	6.12	155.4	0.88	22.35	4	M8	3.46	88	8.82	224
2	50	1.97	50	8.5	216	0.67	17	0.88	22.35	1.1	28	2.76	70	3.62	91.9	5	127	6.5	165.1	0.75	19.05	8	M8	3.7	94	8.82	224
2 ½	65	2.56	65	9.5	241	0.87	22	1	25.4	1.22	31	4.02	102	4.12	104.6	5.88	149.4	7.5	190.5	0.88	22.35	8	M10	4.53	115	12.76	324
3	80	3.15	80	11.12	282	0.87	22	1.12	28.45	1.22	31	4.02	102	5	127	6.62	168.1	8.25	209.6	0.88	22.35	8	M10	4.72	120	12.76	324
4	100	3.94	100	12	305	0.94	24	1.25	31.75	1.3	33	4.02	102	6.19	157.2	7.88	200.2	10	254	0.88	22.35	8	M10	7.68	195	15.76	400
5	125	4.92	125	15	381	1.06	27	1.38	35.05	1.3	33	4.92	125	7.31	185.7	9.25	235	11	279.4	0.88	22.35	8	M12	8.66	220	21.65	550
6	150	5.91	150	15.88	403	1.06	27	1.44	36.58	1.46	37	4.92	125	8.5	215.9	10.62	269.7	12.5	317.5	0.88	22.35	12	M12	9.45	240	21.65	550
8	200	7.87	200	19.75	502	1.38	35	1.62	41.15	1.57	40	5.51	140	10.62	269.7	13	330.2	15	381	1	25.4	12	M16	11.81	300	39.37	1000
10	250	9.84	250	22.38	568	1.38	35	1.88	47.75	1.57	40	5.51	140	12.75	323.9	15.25	387.4	17.5	444.5	1.12	28.45	16	M16	13.98	355	39.37	1000

FIG. S-135W: CLASS 150 1 PIECE FULL PORT FLANGED ENDS ISO 5211 ACTUATOR MOUTNING PAD

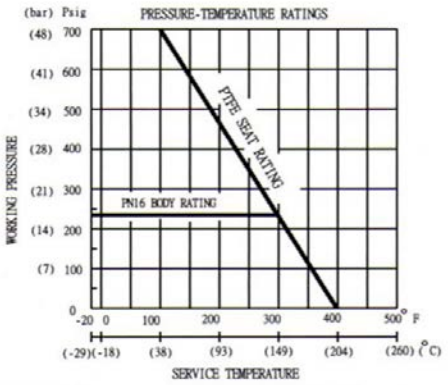
Features:

- ANSI Class 150 flanged bolt pattern.
- ISO 5211 Actuator mounting pad.
- Uni-body design w/wafer type flanged ends for fast installation, in-line maintenance and re-building. Solid ball construction provides structural integrity and minimizes flow turbulence.
- Bottom loaded blow-out proof stem.
- Adjustable packing gland.
- Tested to DIN 3230-3 (strength & leakage test) & API 598.



Materials List:

No.	Part Name	Specification
1	Body	ASTM A351 CF8M
2	Retainer	ASTM A351 CF8M
3	Seat	PTFE
4	Ball	304SS PFA Lined
5	Gasket	PTFE
6	Stem	ASTM A276 316
7	Thrust washer	PTFE
8	Stem packing	PTFE
9	Gland	AISI 304SS
10	Packing nut	AISI 304SS
11	Handle washer	AISI 304SS
12	Handle nut	AISI 304SS
13	Handle	AISI 304SS
14	Handle cover	PVC
15	Stop screw	AISI 304SS
16	Belleville washer	AISI 301SS



OPTIONS:

- A: Anti-static device
- M: Tapped mounting pad,
- V: Vented ball.
- PFA encapsulated ball

Dimension:

Size		ØD		L		I		ØJ		K		ØG		M	ØC		ØB		P	N	H		W	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm	in	mm	in	mm	mm	qty	in	mm	in	mm
3	80	2.99	76	4.65	118	0.47	12	0.79	20	1.02	26	2.76	70	M8	6.3	160	7.87	200	M16	8	6.02	153	11.22	285

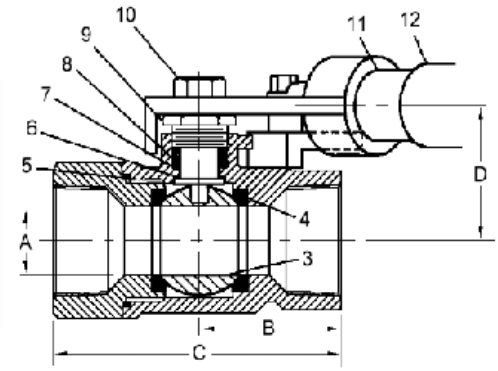
FIG. SPR-BV: 1000 WOG THREADED ENDS SPRING RETURN

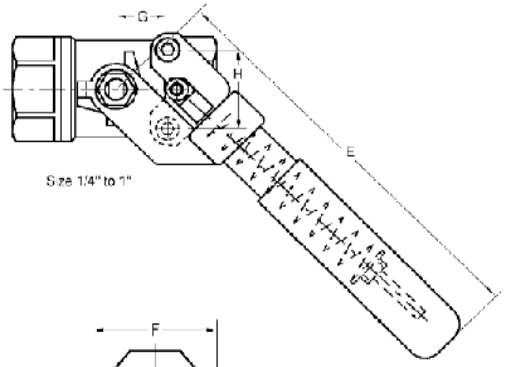
Features:

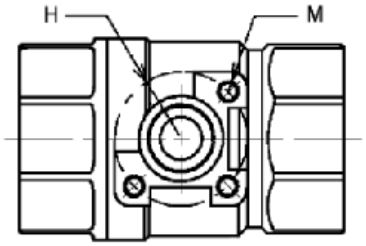
- Investment Casting
- Floating Ball
- NPT Threads: ANSI B1.20.1
- ¼" ~ ½" – Full Port
- ¾" ~ 2" – Reduced Port

Materials List:

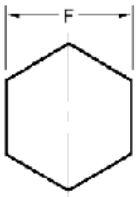
No.	Part Name	Specification
1	Body	CF8M
2	Cap	CF8M
3	Ball	CF8M
4	Ball seat	PFTE + 15% GF
5	Joint gasket	PTFE
6	Thrust washer	PTFE + 15% GF
7	Stem	ANSI 316
8	Stem packing	PTFE + 15% GF
9	Gland nut	A194 Gr. 8
10	Stem nut	A194 Gr. 8
11	Spring handle	ANSI 304
12	Handle cover	Plastic

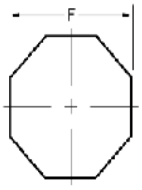






Size 1-1/4" to 2"





Test Pressure:	Shell	Seat
Hydrostatic	3000 psi	2200 psi
Air	-	85 psi

Dimension:

Size		A		B		C		D		E		F		G		H		M	Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm	lb	kg
¼	6	0.43	11	1.08	27.5	2.3	58.5	1.18	30	7.13	180	0.94	24	0.5	12.7	1.12	28.5	M6*1	1.57	0.71
⅜	10	0.49	12.5	1.08	27.5	2.3	58.5	1.18	30	7.13	180	0.94	24	0.5	12.7	1.12	28.5	M6*1	1.55	0.7
½	15	0.49	12.5	1.12	28.4	2.56	65	1.18	30	7.13	180	1.06	27	0.5	12.7	1.12	28.5	M6*1	1.42	0.65
¾	20	0.59	15	1.48	37.5	3.03	77	1.47	37.3	7.13	180	1.26	32	0.87	22.1	1.37	34.8	M6*1	2.41	1.1
1	25	0.79	20	1.69	43	3.41	86.5	1.56	39.5	7.13	180	1.61	41	0.87	22.1	1.37	34.8	M6*1	2.68	1.22
1 ¼	32	0.98	25	1.81	46	3.9	99	2.11	53.5	10.8	275	1.97	50		-	1.97	Ø50	M8*1.25	4.33	1.97
1 ½	40	1.26	32	2.02	51.5	4.06	103	2.27	57.7	10.8	275	2.36	60		-	1.97	Ø50	M8*1.25	5.65	2.57
2	50	1.49	38	2.44	62	4.88	124	2.54	64.5	10.8	275	2.76	70		-	1.97	Ø50	M8*1.25	6.5	2.95

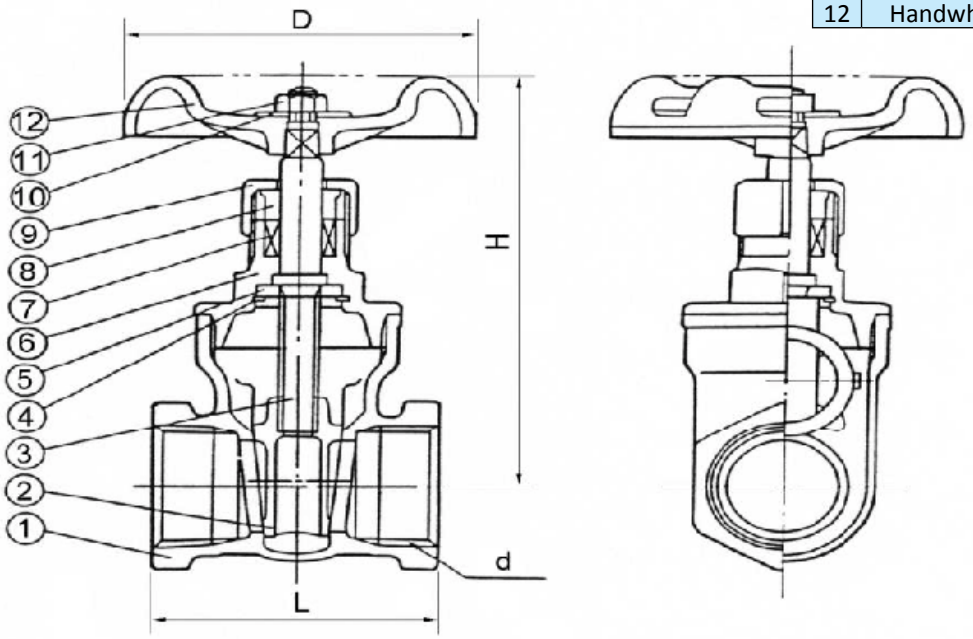
FIG. 2GATS: 200 WOG THREADED ENDS SCREWED BONNET

Features:

- Full Bore
- Threads to: ANSI B1.20.1

Materials List:

No.	Part Name	Specification
1	Body	A351 Gr. CF8M
2	Gate	A351 Gr. CF8M
3	Stem	A276 Type 316
4	Thrust Washer	PTFE
5	Stem Retainer	A276 Type 316
6	Bonnet	A351 Gr. CF8M
7	Packing	PTFE
8	Gland	A276 Type 316
9	Packing Nut	A351 Gr. CF8
10	Name Plate	Aluminum
11	Wheel Nut	A276 Type 304
12	Handwheel	Die Cast Aluminum



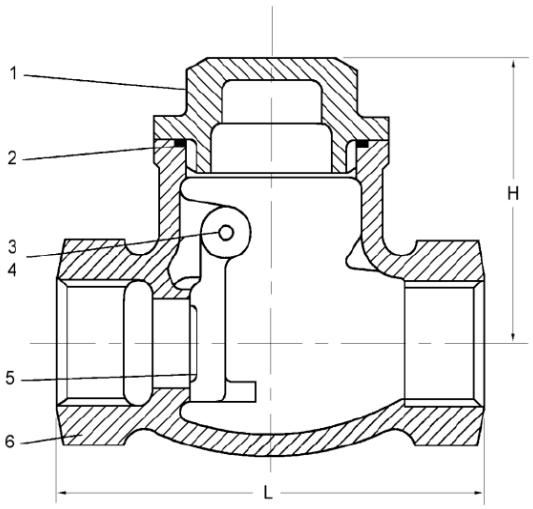
Dimension:

Size		L		d		H		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
½	15	2.12	54	0.59	15	3.74	95	2.76	70	0.95	0.43
¾	20	2.28	60	0.79	20	4.02	102	2.76	70	1.23	0.56
1	25	2.56	65	0.98	25	4.53	115	3.15	80	1.63	0.74
1 ¼	32	2.91	74	1.26	32	5	127	3.15	80	1.96	0.89
1 ½	40	3.07	78	1.5	38	5.91	150	3.54	90	2.16	0.98
2	50	3.42	87	1.97	50	6.69	170	3.94	100	4.25	1.93

FIG. 2CKTS: 200 WOG T PATTERN SWING CHECK VALVE THREADED ENDS

Features:

- Full Bore
- Investment Casting
- 200 WOG
- Threads to: ANSI B1.20.1
- Maximum temperature: 177° C (350° F)



Materials List:

NO.	Part Name	Specification
1	Cover	CF8M
2	Gasket	PTFE
3	Hinge	ANSI 316
4	Plug	ANSI 316
5	Disc	CF8M
6	Body	CF8M

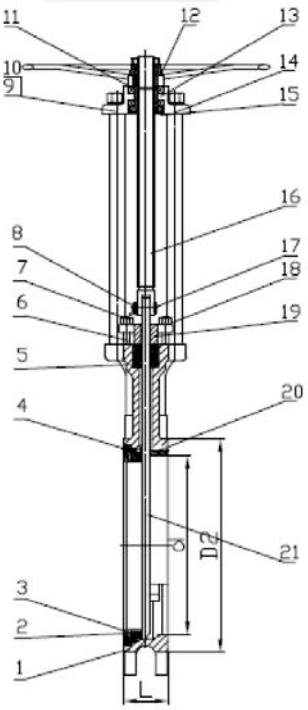
Test Pressure:

	Shell	Seat
Hydrostatic	300 psi	220 psi
Air	-	85 psi

Dimension:

Size		H		L		Weight	
in	mm	in	mm	in	mm	lb	kg
½	15	1.81	46	2.6	66	0.73	0.33
¾	20	2.13	54	3.19	81	0.93	0.42
1	25	2.36	60	3.58	91	1.54	0.7
1 ¼	32	2.83	72	4.19	106.5	2.2	1
1 ½	40	2.95	75	4.76	121	3.31	1.5
2	50	3.23	82	5.59	142	4.63	2.1
2 ½	65	3.54	90	6.26	159	8.36	3.8
3	80	4.09	104	7.48	190	12.98	5.9

FIG. KNGV150L-SS: CLASS 150 BI-DIRECTIONAL KNIFE GATE VALVE LUG STYLE SS BODY



Features:

- Flange dimensions: ANSI B16.5
- Butt-weld dimensions: ANSI B16.25
- Face-to-Face dimensions: MSS SP-81-2001
- Seal tightness test: MSS SP-81 2001
- Temp and Pressure based on: ASME B16.34

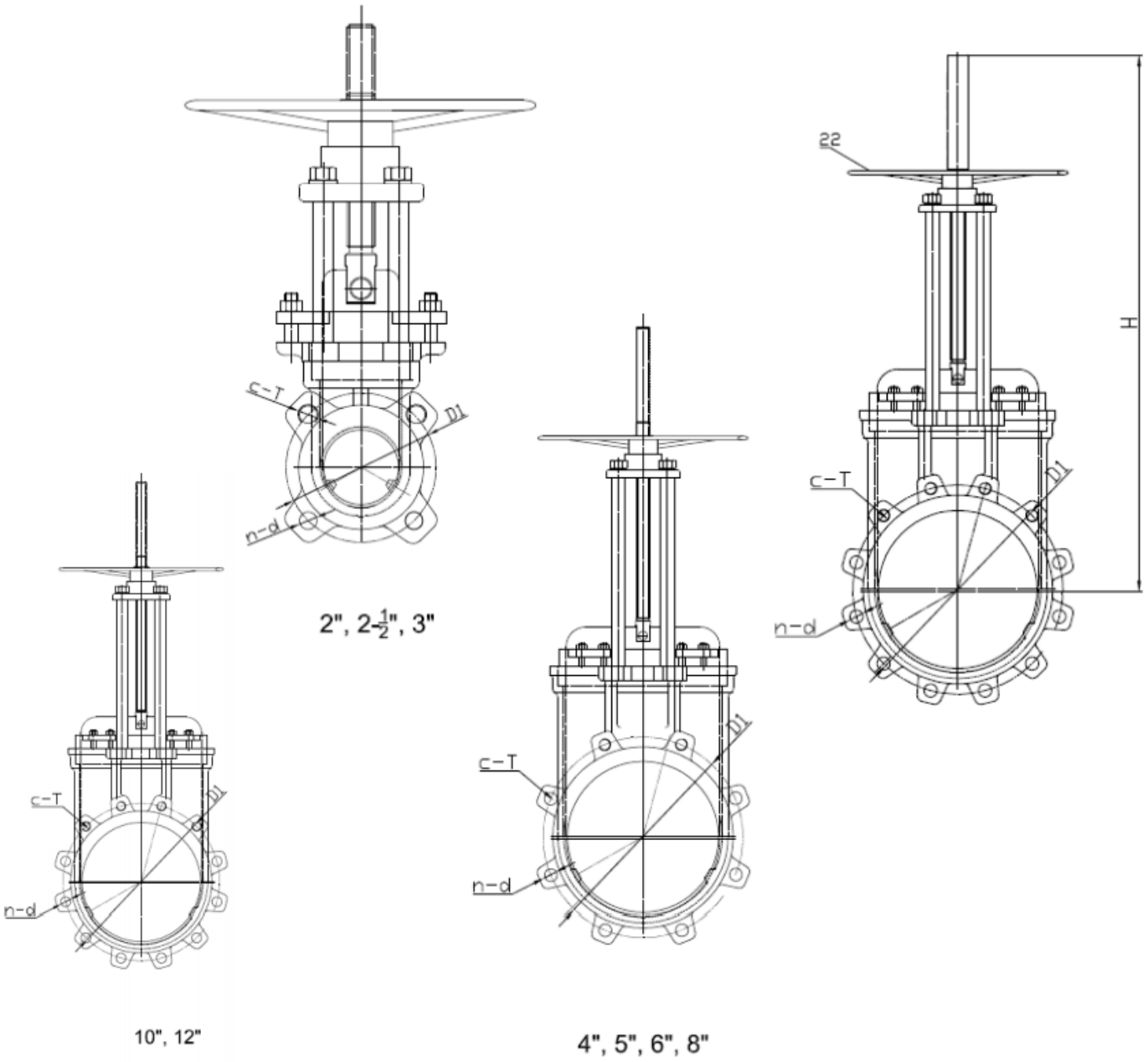
Materials List:

No.	Part Name	Specification
1	Body	A351 CF8M
2	Seat	Viton
3	Retainer	SS316
4	Hex Bolt	B8M
5	Packing	PTFE
6	Stud/nut	B8
7	Hex Nut	B8
8	Pin	SS34
9	Thrust Washer	SS304
10	Hex Nut	B8
11	Key	C.S
12	Round Nut	C.S
13	Bearing	C.S
14	Bearing Support	C.S
15	Stem Nut	ZCu38Mn2Pb2
16	Stem	SS 13% Cr
17	Pillar Pin	SS304
18	Stanchlon	C.S. + Cr Plated
19	Packing Gland	A351 CF8M
20	Retainer	SS316
21	Knife	SS316+Cr
22	Hand wheel	Cast Iron

Note:
Standard is Plug style disc with threaded seat ring.
* Supplied only on special order.

Performance Specification	
Class	150LB (2.0MPa)
Shell Testing	3.0MPa
Seal Testing	(0.28MPa)
Application:	Pulp, Fiber and solid particles and etc.
Temp Range:	-29° C~+180° C

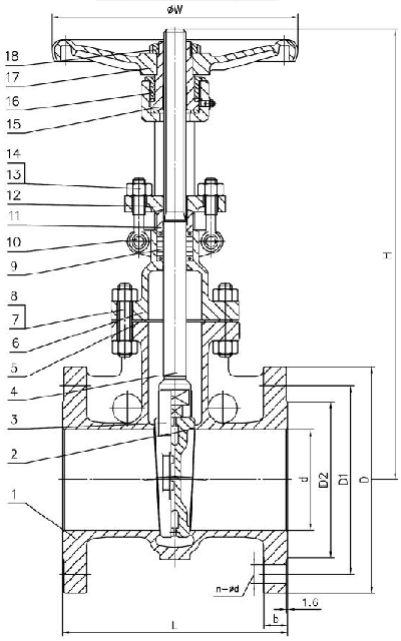
FIG. KNGV150L-SS: CLASS 150 BI-DIRECTIONAL KNIFE GATE VALVE LUG STYLE SS BODY



Dimensions:

Size		d		D		D1		D2		b		n-Ød	L		H	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		in	mm	in	mm
2	50	2	51	6	152	4.75	120.5	3.62	92	0.62	16	4 - Ø19	7.99	203	6.02	153
3	80	3	76	7.5	190	6	152.5	5	127	0.74	19	4 - Ø19	9.48	241	7.08	180
4	100	4	102	9	229	7.5	190.5	6.18	157	0.94	24	8 - Ø19	11.49	292	8.07	205
6	150	6	152	11	279	9.5	241.5	8.5	216	1.02	26	8 - Ø22	14	356	11.49	292
8	200	8	203	13.5	343	11.7	298.5	10.6	270	1.14	29	8 - Ø22	19.4	495	12.3	313
10	250	10	254	16	406	14.2	362	12.7	324	1.22	31	12 - Ø25.5	24.4	622	15.9	405
12	300	12	305	19	483	17	432	15	381	1.25	32	12 - Ø25.5	27.4	698	18.4	468

FIG. 272-SS-150: CLASS 150 FLANGED ENDS BOLTED BONNET 316 SS BODY AND BONNET



Features:

- Flange ends dimensions: ANSI B16.5
- Face-to-Face dimensions: ANSI B16.10
- Wall thickness

Materials List:

No.	Part Name	Specification
1	Body	ASTM A351-CF8M/316
2	Seal facing	SS316
3	Wedge	ASTM A351-CF8M/316
4	Stem	ASTM A182 F316
5	Gasket	SS316+Graphite
6	Bonnet	ASTM A351-CF8M/316
7	Bonnet bolt	ASTM A193 B8
8	Bonnet nut	ASTM A194 8
9	Stem packing	Graphite
10	Pin	ASTM A182 F316
11	Gland	ASTM A182 F316
12	Gland flange	ASTM A351-CF8
13	Gland eyebolt	ASTM 193 B8
14	Gland nut	ASTM A194 8
15	Stem nut	ZCuAl10Fe3
16	Stem nut gland	ASTM A182 F304
17	Handwheel	Cast Iron
18	Handwheel lock nut	ANSI 1020

Note:
Other body materials and trims are available upon request.

Dimensions:

Size		d		D2		D1		D		B		L		H		W		n-Ød
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
2	50	2	51	3.6	92	4.7	120.5	6	152	0.63	16	7	178	13.5	343	7.8	200	4 - Ø19
3	80	3	76	5	127	6	152.5	7.5	190	0.75	19	8	203	16.4	416	9.8	250	4 - Ø19
4	100	4	102	6.2	157	7.5	190.5	9	229	0.95	24	9	229	19	482	9.8	250	4 - Ø19
6	150	6	152	8.5	216	9.5	241.5	11	279	1.02	26	10.5	267	24.1	613	11.8	300	4 - Ø19
8	200	8	203	10.6	270	11.8	298.5	13.5	343	1.14	29	11.5	292	29.5	748	13.8	350	4 - Ø19
10	250	10	254	27.8	324	14.3	362	16	406	1.22	31	12.99	330	35.43	900	15.75	400	12 - Ø25.5
12	300	12	305	15	381	17	432	19	483	1.26	32	14.02	356	41.34	1050	17.72	450	12- Ø25.5

STAINLESS STEEL SWING CHECK VALVE www.kvcindustries.com

FIG. 278-SS-150: CLASS 150 FLANGED ENDS BOLTED COVER 316 SS BODY AND BONNET

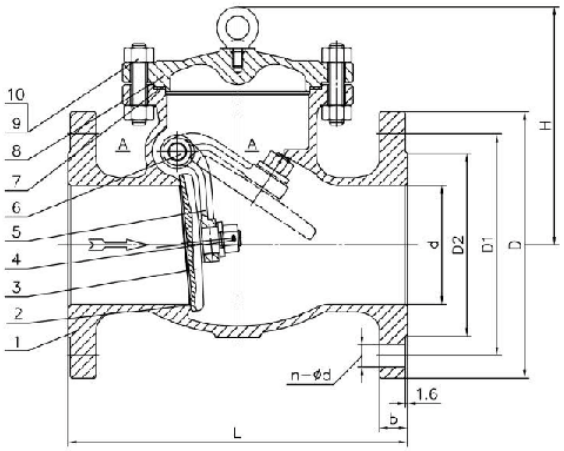
Features:

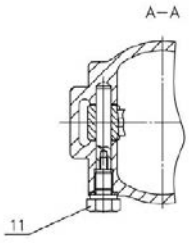
- Flange dimensions: ANSI B16.5
- Face-to-Face dimensions: ANSI B16.10
- Testing: API 598
- Design: API 603

Materials List:

No.	Part Name	Specification
1	Body	ASTM A351 CF8M
2	Seal Facing	SS316
3	Disc	ASTM A351 CF8M
4	Disc Nut	ASTM A182 F316
5	Hinge	ASTM A351 CF8M
6	Hinge Pin	ASTM A182 F316
7	Gasket	SS316+Graphite
8	Cover	ASTM A351 CF8M
9	Cover Bolt	ASTM A193 B8
10	Cover Nut	ASTM A194 8
11	Plug	ASTM A182 F316

Note:
Other body and trim materials are available upon request.





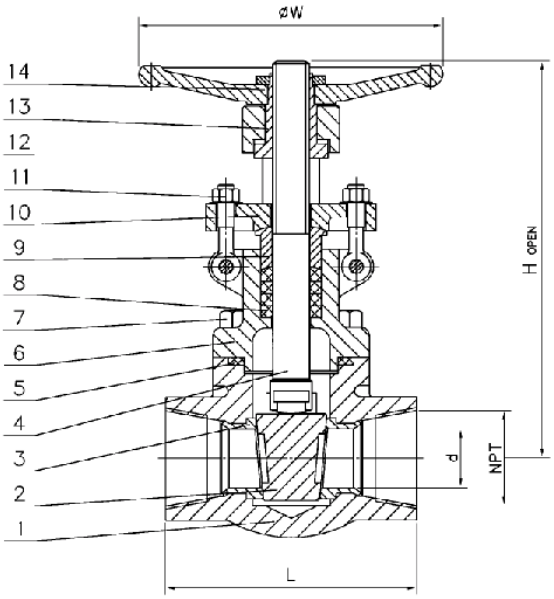
Dimensions:

Size		d		D		D1		D2		b		n-Ød	L		H	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		in	mm	in	mm
2	50	2	51	6	152	4.75	120.5	3.62	92	0.62	16	4 - Ø19	7.99	203	6.02	153
3	80	3	76	7.5	190	6	152.5	5	127	0.74	19	4 - Ø19	9.48	241	7.08	180
4	100	4	102	9	229	7.5	190.5	6.18	157	0.94	24	8 - Ø19	11.49	292	8.07	205
6	150	6	152	11	279	9.5	241.5	8.5	216	1.02	26	8 - Ø22	14	356	11.49	292
8	200	8	203	13.5	343	11.7	298.5	10.6	270	1.14	29	8 - Ø22	19.4	495	12.3	313
10	250	10	254	16	406	14.2	362	12.7	324	1.22	31	12 - Ø25.5	24.4	622	15.9	405
12	300	12	305	19	483	17	432	15	381	1.25	32	12 - Ø25.5	27.4	698	18.4	468

FORGED STEEL GATE VALVE

www.kvcindustries.com

FIG. FG-801T(S): CLASS 800 THREADED(SOCKET WELD) ENDS BOLTED BONNET



Features:

- Design: API 602
- Testing: API 598
- Threaded ends to: ASME B1.20.1
- Socket weld ends to: ASME B16.11

Materials List:

No.	Part Name	Specification
1	Body	ASTM A105
2	Wedge	ASTM A276 420
3	Seat ring	ASTM A276 410
4	Stem	ASTM A276 410
5	Gasket	Graphite/304SS
6	Bonnet	ASTM A105
7	Bonnet bolt	ASTM A193 B7
8	Stem packing	Graphite
9	Gland	ASTM A276 410
10	Gland flange	ASTM A105
11	Gland eyebolt	ASTM A193 B7
12	Gland nut	ASTM A194 2H
13	Stem nut	ASTM A194 2H
14	Handwheel	A197

Rating:

Carbon Steel Class 800 - 1975 psig@100° F

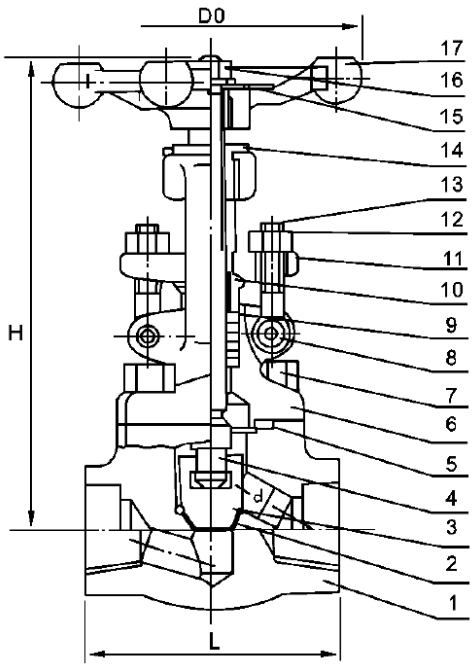
Note:

- The above figure number (FG-801T) designates threaded valve. If a socket weld end is required, change the “T” to an “S” (FG-801S).
- Other trims and body materials are available upon request.
- Rolled in seat ring.
- Regular port.

Dimensions:

Size		d		L		H		W		Weight	
in	mm	In	mm	In	mm	in	mm	in	mm	lb	kg
½	15	0.39	10	3.11	79	6.65	169	3.94	100	4.6	2.1
¾	20	0.54	13.6	3.62	92	7.17	182	3.94	100	5	2.3
1	25	0.71	18	4.37	111	8.19	208	4.92	125	8.8	4
1 ¼	32	0.94	24	4.72	120	9.25	235	6.3	160	13	5.9
1 ½	40	1.14	29	4.72	120	11.42	290	6.3	160	15.2	6.9
2	50	1.45	36.8	5.51	140	12.99	330	7.09	180	24.7	11.2

FIG. FGL-820T(S): CLASS 800 THREADED(SOCKET WELD) ENDS BOLTED BONNET



Features:

- Design: API 602
- Testing: API 598
- Threaded ends to: ASME B1.20.1
- Socket weld ends to: ASME B16.11

Materials List:

No.	Part Name	Specification
1	Body	A105
2	Seat	Stellite overlay
3	Disc	A276-420
4	Stem	A276-410
5	Gasket (spiral wound)	304SS/Graphite
6	Bonnet	A105
7	Bolt	A193-B7
8	Eyebolt pin	A276 – 410
9	Packing	Grafoil
10	Gland	A276-410
11	Gland flange	A105
12	Eyebolt nut	A194-2H
13	Eyebolt	A276-410
14	Stem nut	A276-410
15	Washer	A276-430
16	Lock nut	A108-1020
17	Handwheel	A47

Rating:
Carbon Steel Class 800 - 1975 psig@100 ° F

Note:

- The above figure number (FGL-820T) designates threaded valve. If a socket weld end is required, change the “T” to an “S” (FGL-820S).
- Other trims and body materials are available upon request.
- Both bolted bonnet and welded bonnet have the same dimensions.
- Integral HF seat.
- Regular port.

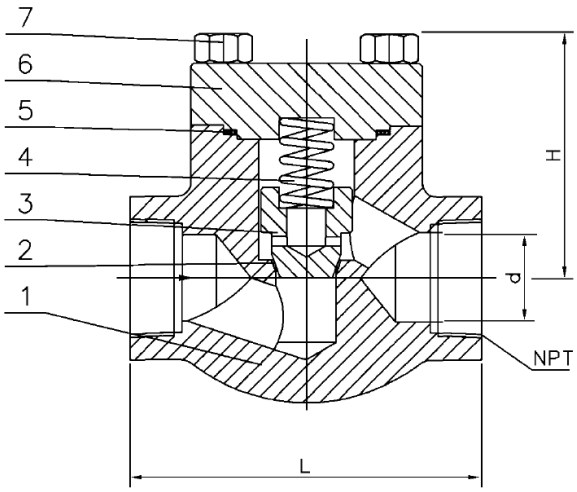
Dimensions:

Size		d		L		H (Open)		Do		Weight	
in	mm	In	mm	In	mm	in	mm	in	mm	lb	kg
½	15	0.39	10	3.11	79	6.57	167	3.94	100	4.85	2.2
¾	20	0.51	13	3.62	92	6.57	167	3.94	100	5.07	2.3
1	25	0.69	17.5	4.37	111	8.03	204	4.92	125	9.3	4.2
1 ¼	32	0.91	23	4.72	120	8.98	228	6.3	160	13.69	6.2
1 ½	40	1.18	30	5.98	152	9.92	252	6.3	160	17.2	7.8
2	50	1.38	35	6.77	172	11.61	295	7.09	180	27.12	12.3

FIG. FPC-810T(S): CLASS 800 THREADED(SOCKET WELD) ENDS BOLTED COVER PISTON CHECK VALVE

Features:

- Design: API 602
- Testing: API 598
- Threaded ends to: ASME B1.20.1
- Socket weld ends to: ASME B16.11



Materials List:

No.	Part Name	Specification
1	Body	ASTM A105
2	Seat	Stellite overlay
3	Disc	A276-410
4	Spring	304SS
5	Gasket	Graphite + 304SS
6	Cover	ASTM A105
7	Cover bolt	ASTM A193 B7

Rating:
Carbon Steel Class 800 - 1975 psig@100° F

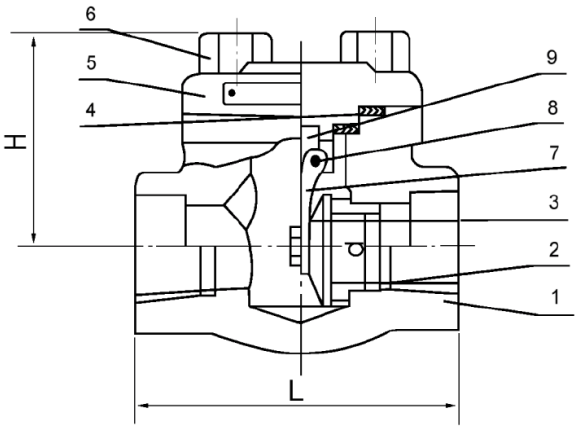
Note:

- The above figure number (FPC-810T) designates threaded valve. If a socket weld end is required, change the “T” to an “S” (FPC-810S).
- Other trims and body materials are available upon request.
- Integral HF seat.
- Regular port.

Dimensions:

Size		d		L		H		Weight	
in	mm	In	mm	In	mm	in	mm	lb	kg
½	15	0.39	10	3.11	79	2.4	61	2.64	1.2
¾	20	0.51	13	3.62	92	2.4	61	3.08	1.4
1	25	0.69	17.5	4.37	111	3.07	78	5.07	2.3
1 ¼	32	0.91	23	4.72	120	3.31	84	8.6	3.9
1 ½	40	1.18	30	5.98	152	4.06	103	12.35	5.6
2	50	1.38	35	6.77	172	4.65	118	19.62	8.9

FIG. FSC-811T(S): CLASS 800 THREADED(SOCKET WELD) ENDS BOLTED COVER SWING CHECK VALVE



Features:

- Design: API 602
- Testing: API 598
- Threaded ends to: ASME B1.20.1
- Socket weld ends to: ASME B16.11

Materials List:

No.	Part Name	Specification
1	Body	A105
2	Seat ring	A276-410+HF
3	Disc	A276-410
4	Gasket (spiral wound)	304SS/Graphite
5	Cover	A105
6	Bolt	A193-B7
7	Hinge	A217-CA15
8	Hinge pin	A217 410
9	Supporter	304SS

Rating:
Carbon Steel Class 800 - 1975 psig@100° F

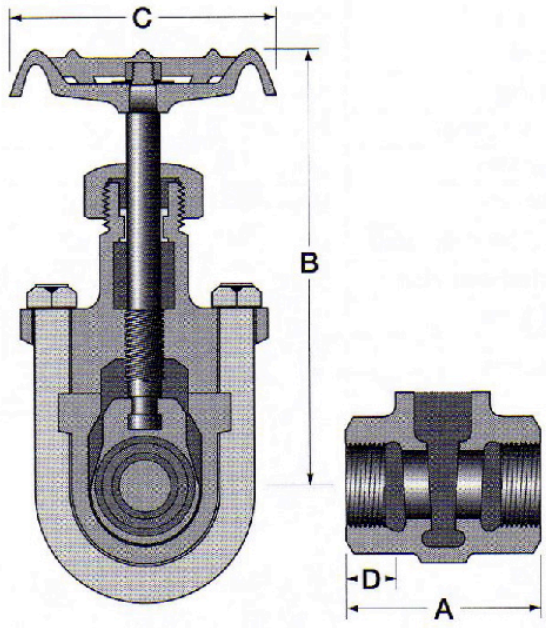
Note:

- The above figure number (FPC-810T) designates threaded valve. If a socket weld end is required, change the “T” to an “S” (FPC-810S).
- Other trims and body materials are available upon request.
- Rolled in seat ring.
- Regular port.

Dimensions:

Size		d		L		H		Weight	
in	mm	In	mm	In	mm	in	mm	lb	kg
½	15	0.39	10	3.11	79	2.4	61	2.2	1
¾	20	0.54	13.6	3.62	92	2.4	61	2.43	1.1
1	25	0.71	18	4.37	111	3.07	78	4.19	1.9
1 ¼	32	0.94	24	4.72	120	3.31	84	7.5	3.4
1 ½	40	1.14	29	4.72	120	3.97	101	9.92	4.5
2	50	1.44	36.5	5.51	140	4.72	120	16.09	7.3

FIG. CGV-254T: CAST IRON CLIP GATE VALVE THREADED ENDS RISING STEM



Features:

- Inside screw, rising stem.
- Threaded ends per ANSI B2.1

Materials List:

No.	Part Name		Specification
1	Body	¼" – 1"	A536 Ductile iron
		1 ¼" - 4"	A126B Cast iron
2	Bonnet	¼" – 1"	A536 Ductile iron
		1 ¼"- 4"	A126B Cast iron
3	Disc	¼" – 1"	A536 Ductile iron
		1 ¼" – 4"	A126B Cast iron
4	Stem		410SS
5	Gland		410SS
6	Gasket		Asbestos free
7	Nut		A307B CIB steel
8	Packing		Asbestos free
9	Handwheel		A216B Cast iron
10	Handwheel nut		A307B CIB steel
11	Name plate		Aluminum
12	U Bolt		A307B CIB steel

Note:
Also available with bronze trim (Fig.254B)

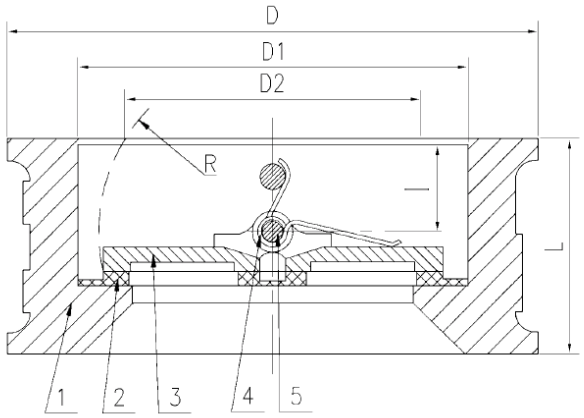
None-shock Working Pressure:

- ¼" – 1": 150 psi steam – 225 CWP
- 1¼" – 4": 125 psi steam – 175 CWP

Dimensions:

Size		A		B (open)		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	3.7	94	11.46	291	3.76	95	0.75	19	10	4.54
3	80	5.83	148	18.23	363	6	152	0.91	23	24	10.88
4	100	5.94	151	18.54	471	9	229	0.98	25	48	21.77

FIG. DC-700: WAFER STYLE DUAL DOOR CHECK VALVE



Features:

- General Design: ANSI Class 125 (EN 12334) & API 594 Working Pressure: ASME B16.34 (EN 12334)
- Flange mate: ANSI B16.1 & B16.5
- Face to face: ISO 5752-82
- Valve Testing: API 598

Materials List:

No.	Part Name	Specification
1	Body	A126B Cast Iron
		A536 Ductile Iron
2	Seat	NBR, EPDM, Viton
3	Disc	A536 Ductile Iron
		CF8M
4	Spring	A276 431SS
5	Stem	416SS / 316SS

Note:
Working Temperature: -10° C to 150° C.

Dimensions:

Size		D		D1		D2		L		R		I		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	4.2	107	2.56	65	1.7	43.3	1.69	43	1.13	28.8	0.75	19	3.3	1.5
2 ½	65	5	127	3.15	80	2.37	60.2	1.81	46	1.13	28.8	0.79	20	5.28	2.4
3	80	5.59	142	3.7	94	2.61	66.4	2.53	64	1.42	36.1	1.1	28	7.92	3.6
4	100	6.38	162	4.6	117	3.57	90.8	2.53	64	1.7	43.4	1.06	27	12.54	5.7
5	125	7.56	192	5.7	145	4.6	116.9	2.76	70	2	52.6	1.18	30	16	7.3
6	150	8.58	218	6.7	170	5.69	144.6	2.99	76	2.59	65.7	1.22	31	19.8	9
8	200	10.75	273	8.8	224	7.8	198.2	3.5	89	3.09	78.6	1.3	33	37.4	17
10	250	12.91	328	10.4	265	9.2	233.7	4.49	114	4.11	104.4	1.97	50	57.2	26
12	300	14.88	378	12.2	310	10.98	279	4.49	114	5	127	1.69	43	81.4	37
14	350	17.24	438	14.2	360	12.91	327	5	127	5.83	148	1.77	45	120.8	54.9
16	400	19.25	489	16	410	14.8	375	5.5	140	6.79	172	2.04	52	171.6	78
18	450	21.85	555	17.7	450	16.3	414	5.98	152	7.77	197	2.28	58	261.8	119
20	500	23.39	594	19.9	505	18.15	468	5.98	152	8.57	218	2.28	58	268	122
24	600	27.56	700	24.6	624	22.42	570	7	178	9.49	241	0.12	3	383	174

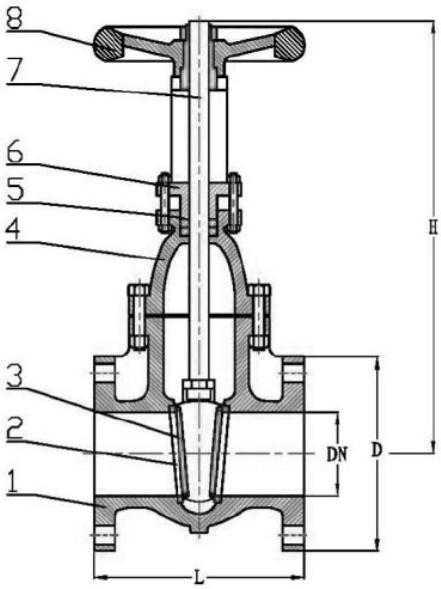
FIG. 272-CI-125: CLASS 125 OS&Y GATE VALVE FLANGED ENDS BOLTED BONNET BRONZE TRIM

Features:

- Flange dimensions: ANSI B16.1
- Face-to-Face dimensions: ANSI B16.10
- Testing & Design: MSS-SP-70
- Working pressure: 125LB/150LB
- Working environment: Water, Oil, Steam
- Working temperature: ≤ 200°C

Materials List:

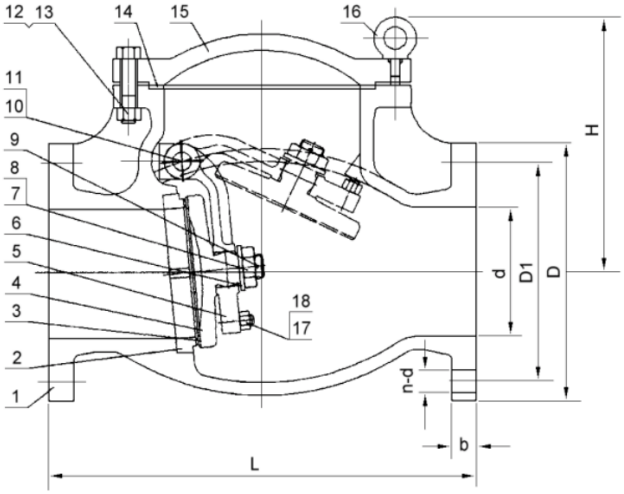
No.	Part Name	Specification
1	Body	ASTM A126B
2	Seat seal ring	Bronze
3	Disc	ASTM A126B with SS
4	Bonnet	ASTM A126B
5	Packing	Graphite
6	Gland	Ductile Iron (A395)
7	Stem	SS(410)
8	Handwheel	ASTM A126B



Dimensions:

Size		L		H		D	
in	mm	in	mm	in	mm	in	mm
2	50	7	178	10.43	265	6	152
2 ½	65	7 ½	190	11	280	7	178
3	80	8	203	12.2	310	7 ½	191
4	100	9	229	16.14	410	9	229
6	150	10 ½	267	22.05	560	11	279
8	200	11 ½	292	27.95	710	13 ½	343
10	250	13	330	34.84	885	16	406
12	300	14	356	43.31	1100	19	483
14	350	15	381	52.28	1328	21	533

FIG. 278-CI-125: CLASS 125 SWING CHECK VALVE FLANGED ENDS BOLTED COVER BRONZE TRIM



Features:

- Flange dimensions: ANSI B16.1
- Face-to-Face dimensions: ANSI B16.10
- Testing & Design: MSS-SP-71

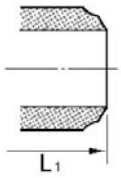
Materials List:

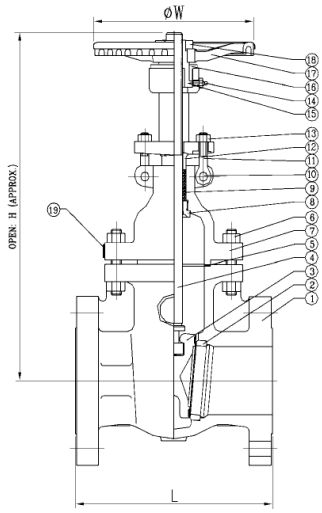
No.	Part Name	Specification
1	Body	ASTM A126B
2	Seat ring	ASTM B62
3	Disc seal ring	ASTM B62
4	Disc	ASTM A126B
5	Hinge	ASTM A216 WCB
6	Washer	Carbon steel
7	Nut	Carbon steel
8	Stud	Carbon steel
9	Split pin	304SS
10	Hinge pin	13Cr
11	Plug	ASTM A536
12	Bolt	ASTM A307
13	Nut	Carbon steel
14	Cover gasket	Graphite & steel
15	Cover	ASTM A126B
16	Eye screw	Carbon steel
17	Adjusting screw	Carbon steel
18	Nut	Carbon steel

Dimensions:

Size		L		D		D1		b		n-d	H		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	in	mm	lb	kg
2	50	8	203	6	152	4 ¾	121	⅝	15.9	4 - ¾	6	152	30	13.6
2 ½	65	8 ½	216	7	178	5 ½	140	11/16	17.5	4 - ¾	6 ⅜	162	50	22.7
3	80	9 ½	241	7 ½	190	6	152	¾	19	4 - ¾	6 ⅞	175	55	25
4	100	11½	292	9	229	7 ½	191	15/16	23.8	8 - ¾	8 ⅝	219	86	39.1
5	125	13	330	10	254	8 ½	216	15/16	23.8	8 - ⅞	8 ⅞	225	130	59.1
6	150	14	356	11	279	9 ½	241	1	25.4	8 - ⅞	10	254	154	70
8	200	19 ½	495	13 ½	343	11 ¾	298	1⅛	28.6	8 - ⅞	11 ¾	298	279	127
10	250	24 ½	622	16	406	14 ¼	362	1 3/16	30.2	12 - 1	14 13/16	376	407	185
12	300	27 ½	699	19	483	17	432	1¼	31.8	12 - 1	16 ⅛	410	594	270
14	350	31	787	21	533	18 ¾	476	1⅜	34.9	12 - 1 ⅛	17 ½	445	829	377
16	400	36	914	23 ½	597	21 ¼	540	1 7/16	36.5	12 - 1 ⅛	19 ¾	502	1148	522
18	450	36	914	25	635	22 ¾	578	1 9/16	39.7	16 - 1 ¼	27 ½	699	1727	785
20	500	40	1016	27 ½	699	25	635	1 11/16	42.9	20 - 1 ¼	29 ¼	743	2596	1180
24	600	48	1219	32	813	29 ½	749	1 ⅞	47.6	20 - 1 ⅜	33 ¼	845	3520	1600

FIG. 272-CS-150: CLASS 150 FLANGED ENDS BOLTED BONNET WCB BODY & BONNET





Features:

- Flange dimensions: ANSI B16.5
- Buttweld end dimensions: ANSI B16.25
- Face-to-Face dimensions: ANSI B16.10
- Testing: API 598
- Design: API 600

Materials List:

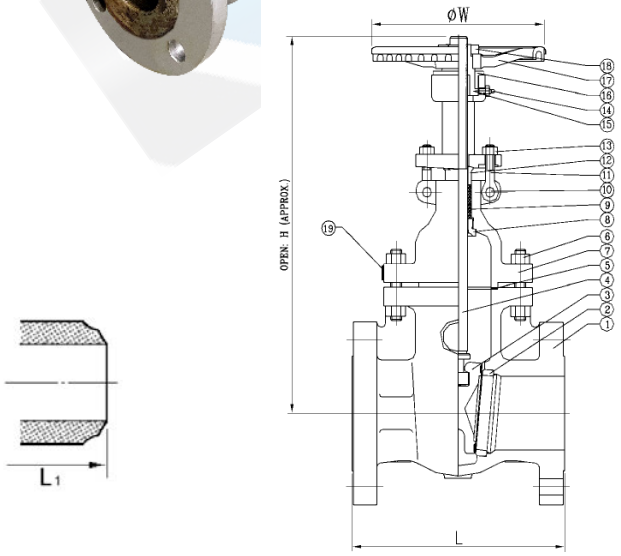
No.	Part Name	Specification
1	Body	A216 WCB
2	Seat ring	A105 HF
3	Wedge/disc	WCB, 13Cr Overlay
4	Stem	A276 – 410, 420
5	Gasket	Metal jacketed Grafoil
6	Stud/nut	B7/2H
7	Bonnet	A216 WCB
8	Back seat	A276 – 410, 420
9	Packing	Grafoil
10	Pin	Carbon steel
11	Eye bolt/nut	B7/2H
12	Gland	A276 – 410, 420
13	Gland flange	Carbon steel
14	Grease fitting	Brass/steel
15	Stem nut	ASTM B-148
16	Retaining nut	Carbon steel
17	Handwheel	Ductile iron
18	Handwheel nut	Carbon steel
19	Nameplate	321SS

Note:
Other body materials and trims are available upon request

Dimensions:

Size		L (RF)		L1 (BW)		H (open)		W		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2	50	7	178	8.5	216	16.13	409	8	220	47	21
2 ½	65	7.5	190	9.5	241	18.5	472	9	240	56	25
3	80	8	203	11.13	283	21	532	10	250	75	34
4	100	9	229	12	305	24.13	612	11	280	115	52
5	125	10	254	15	381	28	710	12	300	151	69
6	150	10.5	267	15.88	403	31.75	806	13	320	197	90
8	200	11.5	292	16.5	519	39	990	14	350	289	131
10	250	13	330	18	457	46.5	1186	16	400	450	205
12	300	14	356	19.75	502	55.25	1405	18	450	640	291
14	350	15	381	22.5	572	63.5	1615	19	500	860	391
16	400	16	406	24	610	71.25	1811	23	600	1190	541
18	450	17	432	26	660	78.25	1986	25	650	1490	677
20	500	19	457	28	711	87	2210	27	700	1885	857
24	600	20	508	32	813	106.25	2698	33	850	2780	1264
28	700	24	610	36	914	119.5	3030	33	850	1931	1765
30	750	24	610	36	914	130.5	3317	36	900	2380	2028
32	800	26	660	38	965	137.25	3487			2490	2280
36	900	28	711	40	1016	150.5	3825			3600	3080

FIG. 272-CS-300: CLASS 300 FLANGED ENDS BOLTED BONNET WCB BODY & BONNET



Features:

- Flange dimensions: ANSI B16.5
- Buttweld end dimensions: ANSI B16.25
- Face-to-Face dimensions: ANSI B16.10
- Testing: API 598
- Design: API 600
- Threaded or Welded Seat Ring
- Flexible Wedge

Materials List:

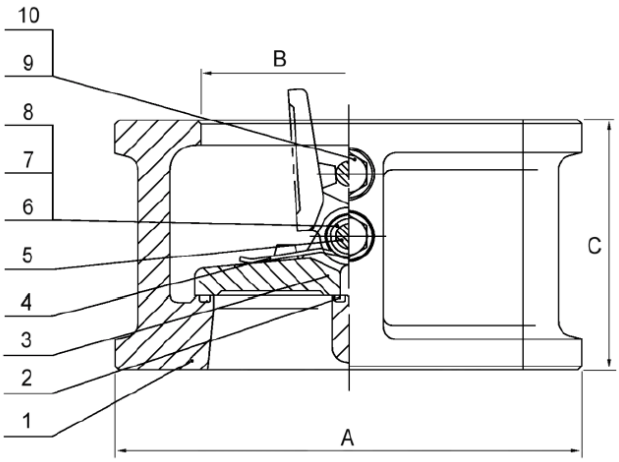
No.	Part Name	Specification
1	Body	A216 WCB
2	Seat ring	A105 HF
3	Wedge/disc	WCB, 13Cr Overlay
4	Stem	A276 – 410, 420
5	Gasket	Metal jacketed Grafoil
6	Stud/nut	B7/2H
7	Bonnet	A216 WCB
8	Back seat	A276 – 410, 420
9	Packing	Grafoil
10	Pin	Carbon steel
11	Eye bolt/nut	B7/2H
12	Gland	A276 – 410, 420
13	Gland flange	Carbon steel
14	Grease fitting	Brass/steel
15	Stem nut	ASTM B-148
16	Retaining nut	Carbon steel
17	Handwheel	Ductile iron
18	Handwheel nut	Carbon steel
19	Nameplate	321SS

Note:
Other body materials and trims are available upon request

Dimensions:

Size		L (RF)		L1 (BW)		H (open)		W		Weight (RF)		Weight (BW)	
in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	lb	kg
2	50	8 ½	216	8 ½	216	15.75	400	8	220	75	34	57	26
2 ½	65	9 ½	241	9 ½	241	18.75	477	9	240	85	39	75	34
3	80	11.13	283	11.13	283	21.38	543	10	250	125	57	104	47
4	100	12	305	12	305	25.63	650	11	280	176	80	150	68
5	125	15	381	15	381	30.25	770	12	300	240	109	170	77
6	150	15.88	403	15.88	403	34.5	880	13	320	327	149	260	118
8	200	16 ½	419	16 ½	419	40.75	1037	14	350	521	237	430	195
10	250	18	457	18	457	50.25	1275	16	400	750	341	597	271
12	300	19 ¾	502	19 ¾	502	56.63	1438	18	450	1100	500	952	432
14	350	30	762	30	762	65	1650	19	500	1640	745	1312	596
16	400	33	838	33	838	72.5	1840	23	600	3442	1110	1870	850
18	450	36	914	36	914	79.88	2030	25	650	2990	1359	2260	1027
20	500	39	991	39	991	88.25	2240	27	700	3785	1720	3219	1463
24	600	45	1143	45	1143	114.25	2900	33	850	6160	2800	5737	2607

FIG. DC-750: CLASS 150 WAFER STYLE DUAL DOOR



Features:

- Economical, lightweight, compact design – significantly lighter and less expensive than comparable swing check valves.
- Easy to install and maintain.
- Smooth, spring assisted closing reduces water hammer.
- Long-legged springs allow plates to open/close without seat scrubbing.
- Rugged Inconel X-750 spring is standard in all steel & stainless steel valves.
- Innovative 316SS seat, standard in all WCB metal seated valves, combined with standard 316SS plates provides a true all stainless steel seating area.
- All WCB & 316SS valves conform to NACE MR-01-75. Manufactured to API 594 & tested to API 598.

Materials List:

No.	Part Name	WCB/316SS	316SS/316SS
1	Body	A216 - WCB	A351 CF8M
2	Seat	316SS or Viton	316SS or Viton
3	Disc	316SS	316SS
4	Spring	INCONEL X-750	INCONEL X-750
5	Pin shaft	316SS	316SS
6	End hold ring	316SS	316SS
7	Centre hold ring	316SS	316SS
8	Spring seat	316SS	316SS
9	Washer	316SS	316SS
10	Screw	316SS	316SS

Note:
Valve must be installed with disc hinge pin in the vertical position, to ensure proper operation

Dimensions:

Size		Class	B		A		C		Weight	
in	mm		in	mm	in	mm	in	mm	lb	kg
2	50	150	2.375	60.3	4.125	105	2.375	60.5	6	2.7
		300	2.375	60.3	4.125	111	2.375	60.5	7	3.2
		600	2.375	60.3	4.375	111	2.375	60.5	7	3.2
		900	2.375	60.3	4.375	143	2.75	69.85	14	6.4
		1500	2.375	60.3	5.625	143	2.75	69.85	14	6.4
		2500	2.375	60.3	5.75	146	2.75	69.85	15	6.8
2 ½	65	150	2.875	73	4.875	124	2.62	66.55	10	4.5
		300	2.875	73	5.125	130	2.62	66.55	11	5
		600	2.875	73	5.125	130	2.62	66.55	11	5
		900	2.875	73	6.5	165	3.25	83	16	7.3
		1500	2.875	73	6.5	165	3.25	83	16	7.3
		2500	2.875	73	6.625	168	3.25	83	22	10

Dimensions:

Size		Class	B		A		C		Weight	
in	mm		in	mm	in	mm	in	mm	lb	kg
3	80	150	3.5	88.8	5.375	137	2.875	73.15	13	5.9
		300	3.5	88.8	5.875	149	2.875	73.15	15	6.8
		600	3.5	88.8	5.875	149	2.875	73.15	15	6.8
		900	3.5	88.8	6.625	168	3.25	82.55	24	10.9
		1500	3.5	88.8	6.875	174.6	3.25	82.55	25	11.3
		2500	3.5	88.8	7.75	197	3.375	85.85	31	14.1
4	100	150	4.5	114.8	6.875	175	2.875	73.15	17	7.7
		300	4.5	114.8	7.125	181	2.875	73.15	18	8.2
		600	4.5	114.8	7.625	194	3.12	79.25	26	11.8
		900	4.5	114.8	8.125	206.4	4	101.6	40	18.1
		1500	4.5	114.8	8.25	209.6	4	101.6	43	19.5
		2500	4.5	114.8	9.25	235	4.12	104.7	54	24.5
5	125	150	5.62	142.8	7.75	197	3.38	86	27	12.2
		300	5.62	142.8	8.5	216	3.38	86	35	15.9
		600	5.62	142.8	9.5	241	4.125	105	50	22.7
6	150	150	6.625	168	8.75	222	3.875	98.55	35	16
		300	6.625	168	9.875	251	3.875	98.55	45	20
		600	6.625	168	10.5	267	5.375	136.7	80	36
		900	6.625	168	11.38	289	6.25	158.8	115	52
		1500	6.625	168	11.13	282.6	6.25	158.8	110	50
		2500	6.625	168	12.5	318	6.25	158.8	190	86
8	200	150	8.625	219.3	11	279	5	127	70	32
		300	8.625	219.3	12.13	308	5	127	82	37
		600	8.625	219.3	12.64	321	6.5	165.1	135	61
		900	8.625	219.3	14.13	358.8	8.125	206.3	229	104
		1500	8.625	219.3	13.88	352.4	8.125	206	219	99
		2500	8.625	219.3	15.25	387	8.125	206	285	129
10	250	150	10.75	273.1	13.38	340	5.75	146	106	48
		300	10.75	273.1	14.25	362	5.75	146	125	57
		600	10.75	273.1	15.75	400	8.375	212.9	238	108
		900	10.75	273.1	17.13	435	9.5	241.3	388	176
		1500	10.75	273.1	17.13	435	9.75	247.7	397	180
		2500	10.75	273.1	18.75	476	10	254	502	228
12	300	150	12.75	324	16.13	410	7.12	180.8	172	78
		300	12.75	324	16.13	422	7.12	180.8	200	91
		600	12.75	324	18	457	9	228.6	333	151
		900	12.75	324	19.63	498.5	11.5	292.1	540	245
		1500	12.75	324	20.5	520.7	12	305	725	329
		2500	12.75	324	21.63	549	12	305	963	437
14	350	150	14	355.6	17.75	451	7.25	184.2	200	91
		300	14	355.6	19.13	486	8.75	222.3	325	147
		600	14	355.6	19.38	492	10.75	273	455	206
		900	14	355.6	20.5	520.7	14	355.6	**	**
		1500	14	355.6	22.75	577.9	14	355.6	**	**
16	400	150	16	406	20.25	514	7.5	190.5	275	125
		300	16	406	21.25	540	9.12	213.6	415	188
		600	16	406	22.25	565	12	304.8	640	290
		900	16	406	22.63	574.7	15.12	384	**	**
		1500	16	406	25.25	641	15.12	384	**	**
18	450	150	17	433	21.63	549	8	203.2	315	143
		300	17	433	23.5	597	10.38	263.6	555	252
		600	17	433	24.13	613	14.25	362	890	404
		900	17	433	25.13	638.2	17.75	450.9	1318	598
		1500	18	457	27.75	705	18.44	468	**	**
20	500	150	20	508	23.88	606	8.62	219	435	197
		300	20	508	25.75	654	11.5	292.1	725	329
		600	20	508	26.88	683	14.5	368.3	1120	508
		900	17	433	25.13	638.2	17.75	450.9	1426	647
24	600	150	24	610	28.25	718	8.75	222	620	281
		300	24	610	30.5	775	12.5	318	1100	499
		600	24	610	31.13	791	17.25	438	2040	925
30	750	150	30	762	34.75	883	13	330	1230	558
		300	30	762	37.5	953	15.69	398	2050	930
36	900	150	36	915	41.25	1048	15.25	387	2017	915

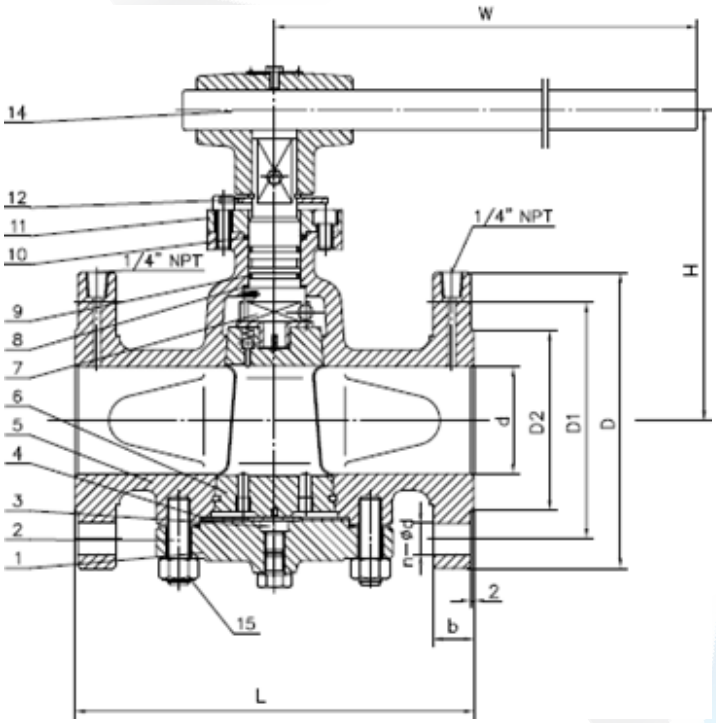
FIG. 282-CS-150 CLASS 150 FLANGED ENDS BOLTED BONNET WCB BODY & BONNET 13Cr/HF TRIM

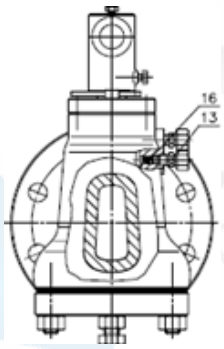
Features:

- Flange dimensions: ANSI B16.5
- Face-to-Face dimensions:
- ANSI B16.10 Testing: API 598
- Design: API 6D

Materials List:

No.	Part Name	Specification
1	Cover	ASTM A216 WCB
2	Cover bolt	ASTM A193 B7
3	Block	ASTM A276 420
4	Gasket	Graphite+SS304
5	Body	ASTM A216 WCB
6	Plug	ASTM A216 WCB
7	Stem	ASTM A182 F6a
8	Stem seat	PTFE
9	O-Ring	VITON
10	Stem packing	PTFE
11	Gland flange	ASTM A105
12	Stop plate	Carbon Steel
13	Injection fitting	AISI 1025
14	Lever	Carbon Steel
15	Nut	ASTM A194 2H
16	Check Valve	AISI 1025





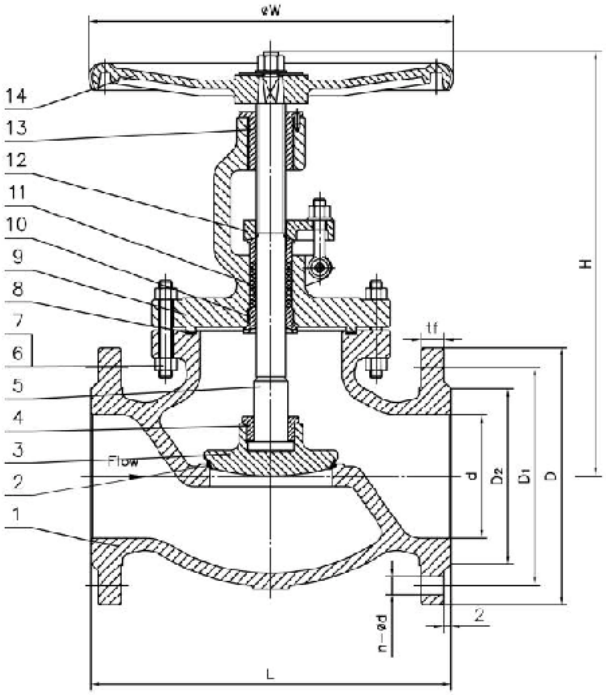
Note:

Other body materials and trims are available upon request.

Dimensions:

Size		d		D		D1		D2		b		H		L		Weight		W	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	In	mm
3	80	2.99	76	7.48	190	6	152.5	5	127	0.75	19	8.07	205	7.99	203	72.75	33	19.69	500
4	100	4.02	102	9.02	229	7.5	190.5	6.18	157	0.94	24	9.09	231	9.02	229	105.8	48	27.56	700
10	250	10	254	15.98	406	14	362	12.76	324	1.12	31	12.99	330	20.98	533	377	171	31.5	800

FIG. 276-CS-150: CLASS 150 FLANGED ENDS BOLTED BONNET WCB BODY & BONNET TRIM 8



Features:

- Flange dimensions: ANSI B16.5
- Face-to-Face dimensions: ANSI B16.10
- Temperature and Pressure: ASME B16.34
- Testing: API 598
- Design: BS 1873, B16.34

Materials List:

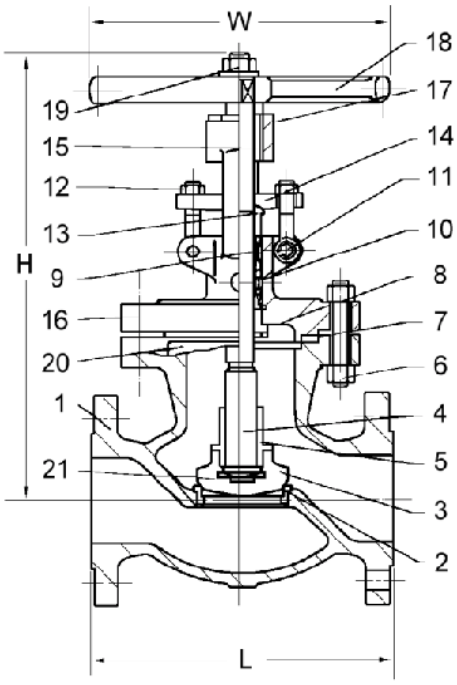
No.	Part Name	Specification
1	Body	ASTM A216 WCB
2	Valve Seal	INT+STL6
3	Disc	ASTM A105+13Cr
4	Disc Nut	Carbon Steel
5	Stem	ASTM A182 F6a
6	Bonnet Bolt	ASTM A193 B7
7	Bonnet Nut	ASTM A194 2H
8	Winded Gasket	Graphite + SS
9	Bonnet	ASTM A216 WCB
10	Backseat Bushing	ASTM A276 420
11	Stem Packing	Flexible Graphite
12	Gland Flange	ASTM A216 WCB
13	Stem Nut	Copper Alloy
14	Hand Wheel	ASTM A536 60-40-18

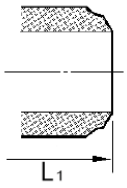
Note:
Other body materials and trims are available upon request

Dimensions:

Size		L		H		ØW		d		D		D1		D2		b		n-Ød
in	mm	in	mm	in	mm	in	mm		mm		mm		mm		mm		mm	
2	50	8	203	12.91	328	8	200	1.97	50	5.98	152	4.75	120.7	3.62	92	0.63	16	4-Ø19
3	80	9 ½	241	14.69	373	10	250	2.99	76	7.48	190	6	152.4	5	127	0.77	19.5	4-Ø19
4	100	11 ½	292	15.75	400	12	300	6	150	9.02	229	7.5	190.5	6.18	157	0.95	24	8-Ø19
6	150	16	406	20.79	528	13.78	350	6	150	10.98	279	9.5	241.3	8.5	215.9	1.02	25.9	8-Ø22
8	200	19 ½	495	25.91	658	15.75	400	8	200	13.5	343	11.75	298.5	10.63	269.9	1.14	29	8-Ø22
10	250	24 ½	622	30.51	775	17.72	450	10	250	15.95	405	14.25	362	12.75	323.8	1.2	30.6	12-Ø25
12	300	27 ½	698	34.65	880	23.62	600	12	300	19.02	483	17	431.8	15	381	1.27	32.2	12-Ø25

FIG. 276-CS-300: CLASS 300 FLANGED ENDS BOLTED BONNET WCB BODY & BONNET 13Cr/HF TRIM





Features:

- Flange dimensions: ANSI B16.5
- Buttweld dimensions: ANSI B16.25
- Face-to-Face dimensions: ANSI B16.10
- Testing: API 598
- Design: API 600

Materials List:

No.	Part Name	Specification
1	Body	A216 WCB
2	Seat ring	A105 HF
3	Disc	A276 – 410, 420
4	Stem	A276 – 410, 420
5	Disc nut	A276 – 420, 420
6	Stud/nut	B7/2H
7	Gasket	304SS Wound Grafoil
8	Back seat	A276 – 410, 420
9	Packing	Grafoil
10	Lantern*	A276-410, 420
11	Pin	Carbon steel
12	Eye bolt/nut	B7/2H
13	Gland	A276-410, 420
14	Gland flange	Carbon steel
15	Stem nut	D2
16	Bonnet	A216 WCB
17	Set screw	Carbon steel
18	Handwheel	Ductile iron
19	Handwheel nut	Carbon steel
20	Nameplate	321SS
21	Thrust plate	A276-420

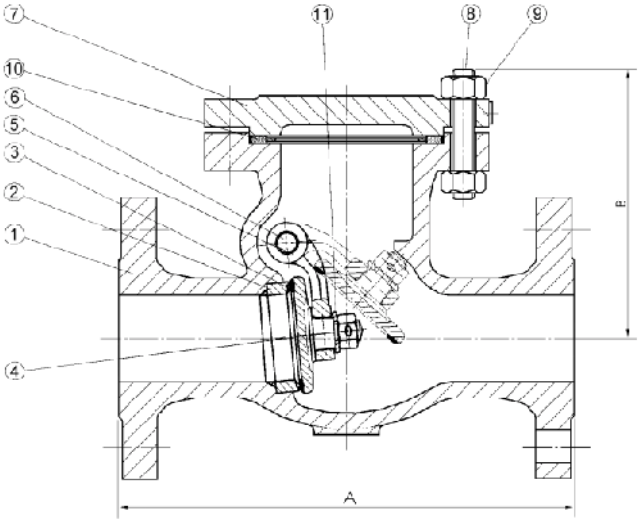
Note:

- Standard is Plug style disc w/ threaded seat ring.
- * Supplied only on special order
- Other body materials and trims are available upon request

Dimensions:

Size		L – L1 (RF/BW)		H (open)		W		Weight RF		Weight BW	
in	mm	in	mm	in	mm	in	mm	lb	kg	lb	kg
2	50	10 ½	267	15 11/16	398	7 ⅞	200	68	31	57	26
2 ½	65	11 ½	292	17 ⅛	436	9 ⅞	250	95	43	84	38
3	80	12 ½	318	18 3/16	462	9 ⅞	250	125	57	97	44
4	100	14	356	22 1/16	560	13 ¾	350	189	86	150	68
5	125	15 ¾	400	24 ⅜	620	15 ¾	400	286	130	242	110
6	150	17 ½	444	27 5/16	694	17 ¾	450	370	168	304	138
8	200	22	559	38 ⅝	982	22 1/16	560	616	280	502	228
10	250	24 ½	622	41 5/16	1049	24	610	847	385	724	329
12	300	28	711	44 ½	1130	30	760	1593	724	1360	618

FIG. 278-CS-150: CLASS 150 SWING CHECK VALVE FLANGED ENDS BOLTED COVER WCB BODY & BONNET 13Cr/HF TRIM



Features:

- Flange dimensions: ANSI B16.5
- Face-to-Face dimensions: ANSI B16.10
- Testing: API 598
- Design: API 600

Materials List:

No.	Part Name	Specification
1	Body	A216 WCB
2	Seat ring	105 + HF
3	Disc	A216 WCB + 13Cr overlay
4	Disc nut	A276 – 410SS
5	Hinge	A216 WCB
6	Hinge pin	A276 – 410SS
7	Cover	A216 WCB
8	Stud	B7
9	Nut	2H
10	Gasket	304SS Wound Grafoil
11	Washer	Carbon steel

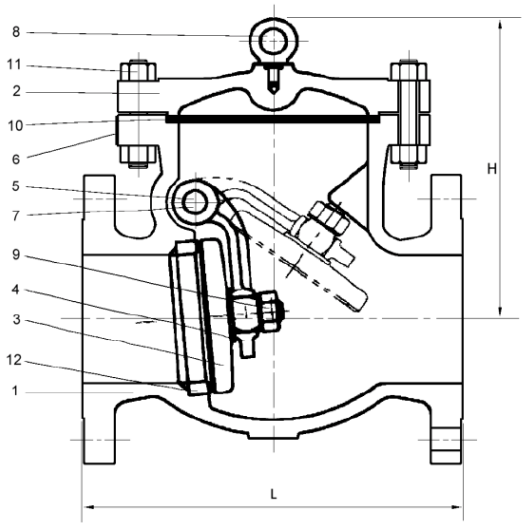
Note:

- Standard valve has a welded seat ring
- Other body materials and trims are available upon request

Dimensions:

Size		L		H		Weight	
in	mm	in	mm	in	mm	lb	kg
2	50	8	203	5.88	150	40	18
2 ½	65	8.5	216	6.63	168	50	23
3	80	9.5	241	7	180	68	31
4	100	11.5	292	8.25	210	102	46
5	125	13	330	9	230	133	60
6	150	14	356	10.25	275	180	82
8	200	19.5	495	13.5	340	305	139
10	250	24.5	622	14	355	455	207
12	300	27.5	698	16.13	410	675	307
14	350	31	787	18.75	475	875	398
16	400	34	864	21.75	552	1300	591
18	450	38.5	978	23.5	600	1450	659
20	500	38.5	978	26	660	1980	900
24	600	51	1295	29.13	740	2500	1136
30	750	60	1524	40.75	1035	4660	2118

FIG. 278-CS-300: CLASS 300 SWING CHECK VALVE FLANGED ENDS BOLTED COVER WCB BODY & BONNET 13Cr/HF TRIM



Features:

- Flange dimensions: ANSI B16.5
- Face-to-Face dimensions: ANSI B16.10
- Testing: API 598
- Design: API 600

Materials List:

No.	Part Name	Specification
1	Body	A216 WCB
2	Cover	A216 WCB
3	Disc	A216 WCB + 13Cr overlay
4	Hinge	A216 WCB
5	Hinge Pin	A276 – 410
6	Name Plate	304SS
7	Set Screw	A276 – 410
8	Hook Screw	Carbon steel
9	Disc Nut	A276 – 410
10	Gasket	304 Wound Grafoil
11	Stud/nut	B7/2H
12	Seat Ring	A105 + HF

Note:

- Standard valve has a welded seat ring
- Other body materials and trims are available upon request

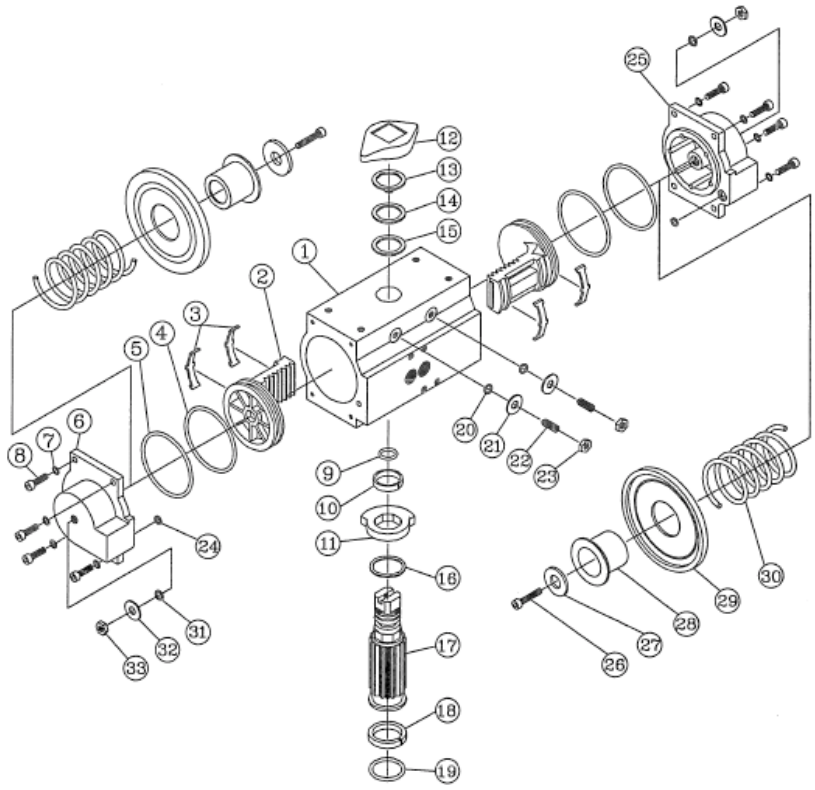
Dimensions:

Size		L		H		Weight	
in	mm	in	mm	in	mm	lb	kg
2	50	10 ½	267	7	180	66	30
2 ½	65	11 ½	292	7 ¼	185	90	41
3	80	12 ½	318	8 ¼	210	110	50
4	100	14	356	10 ⅝	270	161	73
5	125	15 ¾	400	13 ½	345	200	91
6	150	17 ½	444	14 ¼	360	330	150
8	200	21	533	14 ½	370	510	232
10	250	24 ½	622	15 ⅛	385	774	352
12	300	28	711	17 ¼	440	1151	523
14	350	33	838	20 ½	520	1500	682
16	400	34	864	21 ¾	554	1850	841
18	450	38 ½	978	23 ¼	590	2255	1025
20	500	40	1016	24 ¼	614	2904	1320
24	600	53	1346	28	710	4314	1961
30	750	62 ¾	1594	34	865	7194	3270

Series RPS - Spring Return

Features:

- ISO 5211 mounting interface allows direct actuator mounting without using bracket & coupling.
- Air supply connections & rop shaft comply with VDI/VDE 3845 (NAMUR) standard for good interchangeability.
- Hard and aluminum body & Elcctrolcss nickel coated steel drive-shall give high corrosion-resistance & superior wear-resistance .
- Independent travel stops in both directions offer +/-5” travel adjustment to ensure accurate valve alignment.
- One-piece blowout-proof shaftensures safety, strength, and extended cycle life.
- Extruded aluminum body with precision machined internal surface guarantee low friction, high cycle life and precision piston fit.
- Precision machined gear teeth with extra fine tolerance reduce backlash on the system, ensure excellent tooth engagement, and maximize cycle life.



Material List:

No.	Parts	Materials	Qty.
1.	Body	Extruded Aluminum Alloy (Hard anodized)	1
2.	Piston	Die cast Aluminum Alloy	2
3.	Piston Bearing	Nylon	4
4.	Piston O-ring	Buna-N	2
5.	End Cap O-ring	Buna-N	2
6.	End Cap	Die cast Aluminum Alloy	1
7.	Washer	AISI 304	8
8.	Cap Screw	AISI 304	8
9.	O-ring	Buna-N	1
10.	Shaft Bearing	Nylon	1
11.	Stop Cam	Sintering Steel	1
12.	Piston Indicator	Polyethylene	1
13.	Retaining Ring	AISI 420	1
14.	Washer	AISI 304	1
15.	Top Bearing	Nylon	1
16.	Retaining Ring	AISI 304	2
17.	Drive Shaft	Carbon Steel (Electroless Nickel coated)	1
18.	Shaft Bearing	Nylon	1
19.	Shaft O-ring	Buna-N	1
20.	O-ring	Buna-N	2
21.	Washer	AISI 304	2
22.	Stop Screw	AISI 304	2
23.	Nut	AISI 304	2
24.	O-ring	Buna-N	2
25.	End Cap	Die cast Aluminum Alloy	1
26.	Screw	AISI 304	2
27.	Washer	Carbon Steel	2
28.	Spring Guide	Carbon Steel	2
29.	Retainer	Carbon Steel	2
30.	Spring	Spring Steel	2
31.	O-ring	Buna-N	2
32.	Washer	AISI 304	2
33.	Nut	AISI 304	2

Specifications:

Air Supply Pressure	40 psi to 120 psi (2.8 bar to 8.3 bar)
Working Temperature	0° F to 180° F (-17° C to 82° C)
Rotation Adjustment Range	Max. -5° to 95°; Min. +5° to 85°

Note:

1. For operation at or below 32°F(0°C), steps must be taken to assure a moisture-free air supply.
2. Viton seals are available for higher temperature up to 280°F(137°C), but temperatures above 180°F(82°C) require a remote mounted solenoid.

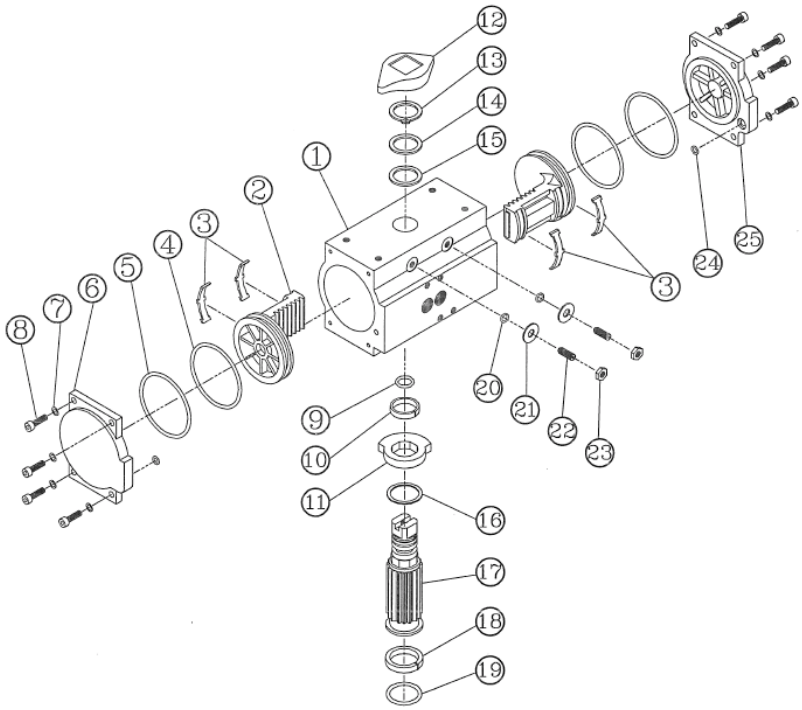
Options:

Series SY: Scotch Yoke design, Double Acting.
Series SYS: Scotch Yoke design, Spring Return.

Series RP - Double Acting

Features:

- ISO 5211 mounting interface allows direct actuator mounting without using bracket & coupling.
- Air supply connections & rop shaft comply with VDI/VDE 3845 (NAMUR) standard for good interchangeability.
- Hard and aluminum body & Elcctrolcss nickel coated steel drive-shall give high corrosion-resistance & superior wear-resistance .
- Independent travel stops in both directions offer +/-5” travel adjustment to ensure accurate valve alignment.
- One-piece blowout-proof shaftensures safety, strength, and extended cycle life.
- Extruded aluminum body with precision machined internal surface guarantee low friction, high cycle life and precision piston fit.
- Precision machined gear teeth with extra fine tolerance reduce backlash on the system, ensure excellent tooth engagement, and maximize cycle life.



Material List:

No.	Parts	Materials	Qty.
1.	Body	Extruded Aluminum Alloy (Hard anodized)	1
2.	Piston	Die cast Aluminum Alloy	2
3.	Piston Bearing	Nylon	4
4.	Piston O-ring	Buna-N	2
5.	End Cap O-ring	Buna-N	2
6.	End Cap	Die cast Aluminum Alloy	1
7.	Washer	AISI 304	8
8.	Cap Screw	AISI 304	8
9.	O-ring	Buna-N	1
10.	Shaft Bearing	Nylon	1
11.	Stop Cam	Sintering Steel	1
12.	Piston Indicator	Polyethylene	1
13.	Retaining Ring	AISI 420	1
14.	Washer	AISI 304	1
15.	Top Bearing	Nylon	1
16.	Retaining Ring	AISI 304	2
17.	Drive Shaft	Carbon Steel (Electroless Nickel coated)	1
18.	Shaft Bearing	Nylon	1
19.	Shaft O-ring	Buna-N	1
20.	O-ring	Buna-N	2
21.	Washer	AISI 304	2
22.	Stop Screw	AISI 304	2
23.	Nut	AISI 304	2
24.	O-ring	Buna-N	2
25.	End Cap	Die cast Aluminum Alloy	1

Specifications:

Air Supply Pressure	40 psi to 120 psi (2.8 bar to 8.3 bar)
Working Temperature	0° F to 180° F (-17° C to 82° C)
Rotation Adjustment Range	Max. -5° to 95°; Min. +5° to 85°

Note:

1. For operation at or below 32°F(0°C), steps must be taken to assure a moisture-free air supply.
2. Viton seals are available for higher temperature up to 280°F(137°C), but temperatures above 180°F(82°C) require a remote mounted solenoid.

Options:

Series SY: Scotch Yoke design, Double Acting.
Series SYS: Scotch Yoke design, Spring Return.

Series RP - Double Acting; Series RPS - Spring Return

Minimum Output Torque in In-lbs. & Nm

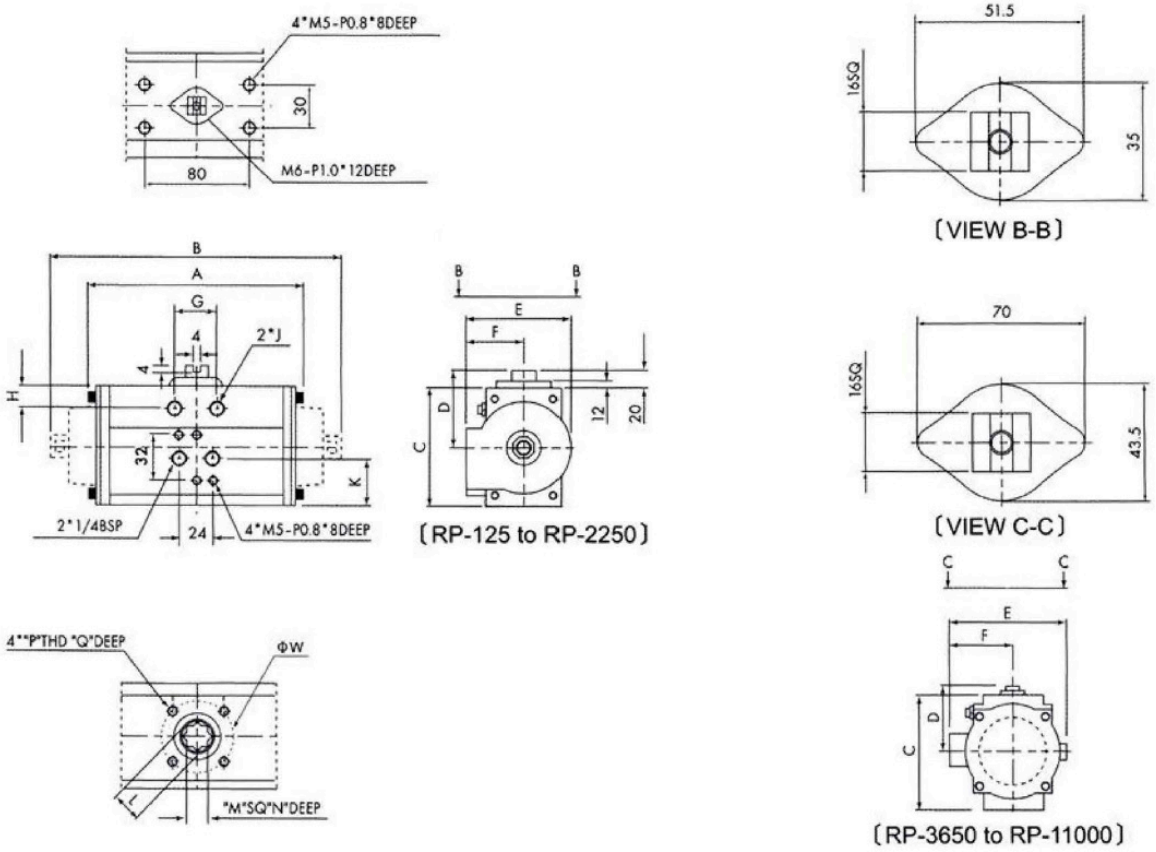
Series RP - Double Acting:

Fig. No.	Air supply pressure in P.S.I. & (Bar)									
	40 (2.8)		60 (4.1)		80 (5.5)		100 (7.0)		120 (8.3)	
	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm
RP-125	63	7	94	10	125	14	156	17	188	21
RP-250	127	14	190	21	250	28	315	36	378	43
RP-450	225	25	335	38	450	51	562	63	675	76
RP-1000	505	57	750	85	1020	115	1250	141	1500	169
RP-2250	1130	128	1690	191	2250	254	2815	318	3380	382
RP-3650	1825	206	2750	311	3650	412	4560	515	5475	618
RP-5000	2500	282	3750	424	5000	565	6250	706	7500	847
RP-11000	5500	621	8250	932	11000	1243	13750	1553	16500	1864

Series RPS - Spring Return:

Fig. No.	No. of Spr.	Air supply pressure in P.S.I. & (Bar)																			
		60 (4.1)				80 (5.5)				100 (7.0)				120 (8.3)				Spring Stroke			
		In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm	In-lbs	Nm
RPS-250	2	138	16	110	12	202	23	172	19	265	30	235	27	326	37	310	35	70	8	45	5
	3	112	13	70	8	176	20	133	15	230	26	195	22	302	34	260	29	105	12	65	7
	4	88	10	32	4	152	17	93	11	210	24	155	18	276	31	220	25	140	16	90	10
	5					126	14	55	6	190	21	115	13	250	28	180	20	175	20	110	12
	6									164	19	77	9	230	26	140	16	210	24	135	15
RPS-450	2	250	28	196	22	362	41	310	35	470	53	420	47	585	66	532	60	125	14	80	9
	3	202	23	125	14	316	36	240	27	430	49	350	40	540	61	462	52	190	21	120	14
	4	160	18	55	6	270	31	168	19	380	43	280	32	496	56	392	44	255	29	160	18
	5					226	26	96	11	340	38	210	24	450	51	320	36	315	36	200	23
	6									295	33	135	15	405	46	250	28	380	43	240	27
RPS-1000	2	550	62	435	49	800	90	682	77	1050	119	930	105	1297	147	1180	133	280	32	180	20
	3	450	51	278	31	705	80	526	59	950	107	775	88	1196	135	1025	116	420	47	270	31
	4	350	40	120	14	600	68	370	42	850	96	620	70	1100	124	867	98	560	63	360	41
	5					500	56	212	24	750	85	465	53	1000	113	710	80	700	79	450	51
	6									650	73	305	34	900	102	560	63	840	95	540	61
RPS-2250	2	1255	142	958	108	1816	205	1520	172	2380	269	2085	236	2940	332	2650	299	659	74	395	45
	3	1035	117	595	67	1600	181	1155	130	2160	244	1715	194	2722	307	2280	258	990	112	590	67
	4	815	92	225	25	1380	156	792	89	2030	229	1350	153	2505	283	1915	216	1320	149	790	89
	5					1160	131	425	48	1725	195	985	111	2290	259	1550	175	1650	186	984	111
	6									1505	170	620	70	2070	234	1180	133	1980	224	1180	133
RPS-3650	2	2060	233	1570	177	2975	336	2480	280	3890	439	3395	384	4800	542	4310	487	1050	119	605	68
	3	1725	195	1000	113	2650	299	1905	215	3550	401	2820	319	4450	503	3750	424	1570	177	910	103
	4	1390	157	425	48	2300	260	1335	151	3210	363	2245	254	4130	467	3150	356	2090	236	1220	138
	5					1970	223	750	85	2880	325	1655	187	3790	428	2570	290	2625	297	1520	172
	6									2540	287	1090	123	3450	390	1995	225	3150	356	1825	206
RPS-5000	2	2780	314	1990	225	3970	448	3180	359	5160	583	4380	495	6350	717	5570	629	1560	176	785	89
	3	2380	269	1200	136	3570	403	2400	271	4760	538	3590	406	5960	673	4780	540	2340	264	1180	133
	4	1980	224	416	47	3180	359	1600	181	4370	494	2800	316	5560	628	3990	451	3130	354	1570	177
	5					2780	314	815	92	3970	448	2010	227	5160	583	3200	361	3910	442	1960	221
	6									3570	403	1220	138	4760	538	2410	272	4690	530	2360	267
RPS-11000	2	6060	685	4360	493	8660	978	6960	786	11300	1277	9560	1080	13900	1570	12200	1378	3400	384	1720	194
	3	5200	587	2650	299	7790	880	5240	592	10400	1175	7840	886	13000	1469	10400	1175	5100	576	2570	290
	4	4330	489	932	105	6930	783	3530	399	9520	1075	6130	692	12100	1367	8730	986	6790	767	3430	387
	5					6060	685	1810	204	8660	978	4410	498	11300	1277	7010	792	8490	959	4290	485
	6									7790	880	2700	305	10400	1175	5300	599	10200	1152	5150	582

Series RP - Double Acting; Series RPS - Spring Return



Dimensions:

Fig. No.	A*		B**		C		D		E		F		G		H	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
RP-125	4.72	120	-	-	2.52	64	2.07	52.5	2.45	62.2	1.33	33.7	0.94	24	0.43	11
RP-250	5.67	144	7.68	195	3.11	79	2.28	58	3.19	81	1.89	48	1.30	33	0.51	13
RP-450	5.87	149	8.11	206	3.86	98	2.64	67	3.74	95	2.05	52	1.30	33	0.55	14
RP-1000	7.20	183	9.84	250	4.76	121	3.11	79	4.69	119	2.56	65	1.81	46	0.67	17
RP-2250	10.24	260	13.98	355	5.55	141	3.54	90	5.55	141	2.99	76	2.13	54	0.75	19
RP-3650	11.97	304	16.61	422	6.93	176	3.90	99	7.28	185	4.17	106	3.15	80	1.06	27
RP-5000	14.33	364	19.17	487	7.72	196	4.61	117	8.07	205	4.25	108	3.11	79	1.10	28
RP-11000	19.29	490	25.28	642	9.61	244	5.47	139	9.37	238	4.92	125	3.74	95	1.42	36

Fig. No.		J	K		L		M		N		P	Q		W		ISO 5211
	mm	mm	in	mm	in	mm	in	mm	in	mm	mm	in	mm	in	mm	
RP-125	11	M5	0.93	23.5	0.49	12.5	0.354	9.0	0.39	10.0	M5	0.31	8	1.65	42	F04
RP-250	13	M5	1.17	29.7	0.57	14.5	0.433	11.0	0.67	17.0	M5 or M6	0.31 or 0.39	8 or 10	1.65 or 1.97	42 or 50	F04 or F05
RP-450	14	M6	1.19	30.2	0.74	18.8	0.551	14.0	0.83	21.0	M6 & M8	0.39 & 0.47	10 & 12	1.97 & 2.76	50 & 70	F05 & F07
RP-1000	17	M8	1.32	33.5	0.91	23.0	0.669	17.0	1.00	25.5	M6 & M8	0.39 & 0.47	10 & 12	1.97 & 2.76	50 & 70	F05 & F07
RP-2250	19	M10	1.54	39.0	1.16	29.5	0.866	22.0	1.22	31.0	M8 & M10	0.47 & 0.59	12 & 15	2.76 & 4.02	70 & 102	F07 & F10
RP-3650	27	M12	3.83	97.4	1.40	35.5	1.063	27.0	1.38	35.0	M10 & M12	0.59 & 0.75	15 & 19	4.02 & 4.92	102 & 125	F10 & F12
RP-5000	28	M12	3.90	99.0	1.40	35.5	1.063	27.0	1.38	35.0	M10 & M12	0.59 & 0.75	15 & 19	4.02 & 4.92	102 & 125	F10 & F12
RP-11000	36	M16	4.91	124.7	1.87	47.5	1.417	36.0	1.77	45.0	M16	0.94	24	5.51	140	F14

Note:

* Dimension "A" is for Series RP (Double Acting Actuator)

** Dimension "B" is for Series RPS (Spring Return Actuator)

Specification:

	I. S. C. Pipe Clamp – Angle Style					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	C-FTC-1	½" I.S.C. Pipe clamps - angle	100	1000	0.013	13
	C-FTC-2	¾" I.S.C. Pipe clamps - angle	100	1000	0.016	15.50
	C-FTC-3	1" I.S.C. Pipe clamps - angle	50	250	0.024	6
	C-FTC-4	1¼" I.S.C. Pipe clamps - angle	50	800	0.033	26.50
	C-FTC-5	1½" I.S.C. Pipe clamps - angle	25	600	0.039	23.50
	Pipe Clamp – Straight Style					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	C-STC-1	½" Pipe Clamps - straight	100	1000	0.012	12
	C-STC-2	¾" Pipe Clamps - straight	100	1000	0.014	13.50
	C-STC-3	1" Pipe Clamps - straight	50	250	0.024	6
	C-STC-4	1¼" Pipe Clamps - straight	50	800	0.035	28
	C-STC-5	1½" Pipe Clamps - straight	25	600	0.043	26
	PEX x FIP Plastic Ballcock Adapter, CSA B135.7 & NSF Certified					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	PEX-2101	½" ½" PEX x FIP Plastic Ballcock	25	200	0.06	13.50
	PEX x FIP Brass Adapter					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	PEX-2102	½" PEX x FIP Brass Adapter	25	200	0.14	29.50
	PEX-2103	¾" PEX x FIP Brass Adapter	25	200	0.16	33.40
	PVC Terminal Bend Support					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	PVC-B002	3/4" (for 1/2" PEX)	20	160	0.18	29.80
	PVC-B004	1" (for 3/4" PEX)	10	100	0.20	33.45

Specification:

PEX x FIP Drop Ear Elbow					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1001	½" PEX x ½" FIP Drop Ear Elbow	25	150	0.17	27
PEX-1002	¾" PEX x ¾" FIP Drop Ear Elbow	25	100	0.24	25.50

PEX x MSWT Adapter					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1102	½" PEX x½" MSWT Adapter	25	500	0.03	22.50
PEX-1103	¾" PEX x ¾" MSWT Adapter	25	250	0.07	22.50
PEX-1104	1" PEX x 1" MSWT Adapter	15	120	0.12	13.50
PEX-1105	½" PEX x ¾" MSWT Adapter	25	250	0.07	29.50

PEX x FSWT Adapter					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1202	½" PEX x ½" FSWT Adapter	25	500	0.04	29.40
PEX-1203	¾" PEX x ¾" FSWT Adapter	25	250	0.06	19.50
PEX-1204	1" PEX x 1" FSWT Adapter	15	120	0.13	17.10

PEX x MIP Adapter					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1302	½" PEX x ½" MIP Adapter	25	250	0.06	25.50
PEX-1303	½" PEX x ¾" MIP Adapter	25	150	0.09	19.40
PEX-1304	¾" PEX x ¾" MIP Adapter	25	200	0.09	19.40
PEX-1305	¾" PEX x ½" MIP Adapter	25	300	0.07	22.30
PEX-1306	1" PEX x 1" MIP Adapter	25	200	0.18	23.10
PEX-1307	1" PEX x ¾" MIP Adapter	15	210	0.18	23.10

PEX x FIP Adapter					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1401	½" PEX x ½" FIP Adapter	25	250	0.10	31.50
PEX-1402	¾" PEX x ¾" FIP Adapter	25	150	0.15	31.50
PEX-1403	1" PEX x 1" FIP Adapter	25	150	0.24	30.30
PEX-1404	½" PEX x ¾" FIP Adapter	25	300	0.14	29.50
PEX-1405	¾" PEX x ½" FIP Adapter	25	200	0.11	23.40

PEX Coupling					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1602	½" PEX Coupling	25	500	0.03	22.50
PEX-1603	¾" PEX Coupling	25	250	0.05	21.40
PEX-1604	1" PEX Coupling	15	240	0.08	20.70
PEX-1605	¾" x ½" PEX Coupling	25	500	0.04	21.50
PEX-1606	1" x ¾" PEX Coupling	20	240	0.07	22.30

Specification:

PEX Elbow					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1702	½" PEX Elbow	25	500	0.04	29.50
PEX-1703	¾" PEX Elbow	25	200	0.07	22.40
PEX-1704	1" PEX Elbow	25	200	0.15	19.60
PEX-1705	¾" x ½" PEX Elbow	25	500	0.05	26.50

PEX Tee					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1802	½" PEX Tee	25	500	0.05	21.40
PEX-1803	¾" PEX Tee	25	250	0.09	28.60
PEX-1804	1" PEX Tee	10	100	0.19	18.60
PEX-1805	½" x ½" x ¾" PEX Tee	25	250	0.12	37.50
PEX-1806	¾" x ½" x ¾" PEX Tee	25	250	0.09	24
PEX-1807	¾" x ¾" x ½" PEX Tee	25	150	0.09	28.60
PEX-1808	¾" x ½" x ½" PEX Tee	25	300	0.09	28.60
PEX-1809	1" x ¾" x 1" PEX Tee	10	150	0.21	26.70
PEX-1810	1" x 1" x ¾" PEX Tee	10	150	0.21	26.70
PEX-1811	1" x 1" x ½" PEX Tee	10	100	0.17	21.90
PEX-1812	1" x ¾" x ¾" PEX Tee	15	200	0.19	24.30
PEX-1813	¾" x ¾" x 1" PEX Tee	15	120	0.19	24.30

PEX Plug					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1902	½" PEX Plug	25	900	0.02	25.50
PEX-1903	¾" PEX Plug	25	700	0.04	29.50
PEX-1904	1" PEX Plug	10	500	0.07	33

PEX x PB Coupling with ring					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-2001	½" PEX x PB Coupling w/ ring	50	500	0.05	21.20
PEX-2002	¾" PEX x PB Coupling w/ ring	50	250	0.08	17.50

PEX Crimp ring					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
PEX-1502	½" PEX Crimp Ring	100	4000	0.017	69.20
PEX-1503	¾" PEX Crimp Ring	100	2000	0.018	37.50
PEX-1504	1" PEX Crimp Ring	50	1000	0.022	23.40

J Clamp with nail					
Model	Size	Bag qty.	Case qty.	Weight each	Weight case
J-CL-3	½" J Clamp w/ nail	100	1000	0.009	10
J-CL-4	¾" J Clamp w/ nail	100	1000	0.013	14
J-CL-5	1" J Clamp w/ nail	50	500	0.024	13

Specification:

	PEX x FIP Drop Ear Elbow					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1001	½" PEX x ½" FIP Drop Ear Elbow, NL	25	150	0.17	27
	NL-PEX-N1002	¾" PEX x ¾" FIP Drop Ear Elbow, NL	10	150	0.24	25.50
	PEX x MSWT Adapter					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1102	½" PEX x½" MSWT Adapter	25	500	0.03	22.50
	NL-PEX-N1103	¾" PEX x ¾" MSWT Adapter	25	250	0.07	22.50
	NL-PEX-N1104	1" PEX x 1" MSWT Adapter	10	200	0.12	13.50
	NL-PEX-N1105	½" PEX x ¾" MSWT Adapter	10	300	0.07	29.50
	PEX x FSWT Adapter					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1202	½" PEX x ½" FSWT Adapter	25	500	0.04	29.40
	NL-PEX-N1203	¾" PEX x ¾" FSWT Adapter	25	250	0.06	19.50
	NL-PEX-N1204	1" PEX x 1" FSWT Adapter	10	200	0.13	17.10
	PEX x MIP Adapter					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1302	½" PEX x ½" MIP Adapter	25	250	0.06	25.50
	NL-PEX-N1303	½" PEX x ¾" MIP Adapter	10	150	0.09	19.40
	NL-PEX-N1304	¾" PEX x ¾" MIP Adapter	25	200	0.09	19.40
	NL-PEX-N1305	¾" PEX x ½" MIP Adapter	10	300	0.07	22.30
	NL-PEX-N1306	1" PEX x 1" MIP Adapter	25	200	0.18	23.10
	NL-PEX-N1307	1" PEX x ¾" MIP Adapter	10	150	0.18	23.10
	NL-PEX-N1308	¾" PEX x 1" MIP Adapter	25	150	0.18	23.10
	PEX x FIP Adapter					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1401	½" PEX x ½" FIP Adapter	10	400	0.10	31.50
	NL-PEX-N1402	¾" PEX x ¾" FIP Adapter	10	250	0.15	31.50
	NL-PEX-N1403	1" PEX x 1" FIP Adapter	10	150	0.24	30.30
	NL-PEX-N1404	½" PEX x ¾" FIP Adapter	10	250	0.14	29.50
	NL-PEX-N1405	¾" PEX x ½" FIP Adapter	10	250	0.11	23.40
	PEX Coupling					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1602	½" PEX Coupling	25	500	0.03	22.50
	NL-PEX-N1603	¾" PEX Coupling	10	500	0.05	21.40
	NL-PEX-N1604	1" PEX Coupling	10	300	0.08	20.70
	NL-PEX-N1605	¾" x ½" PEX Coupling	10	500	0.04	21.50
	NL-PEX-N1606	1" x ¾" PEX Coupling	10	400	0.07	22.30

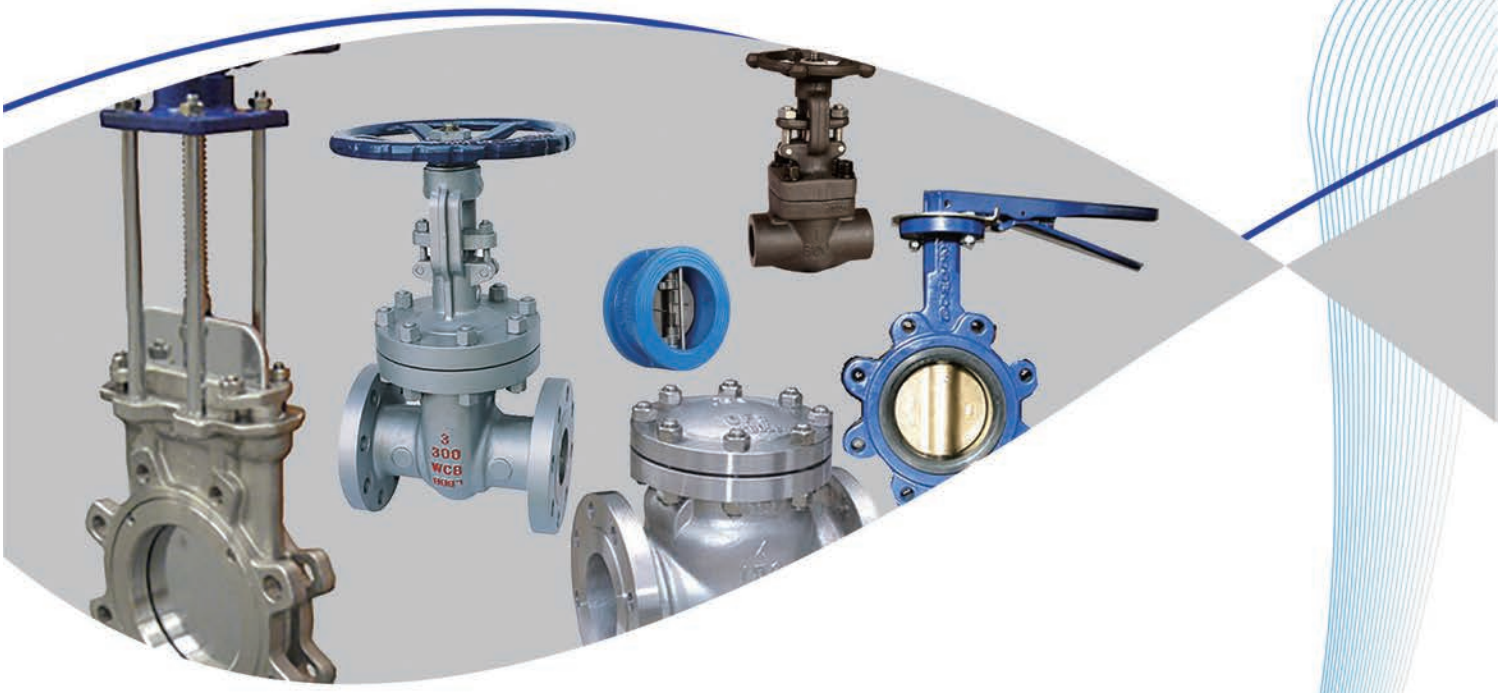
Specification:

	PEX Elbow					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1702	½″ PEX Elbow	25	250	0.04	29.50
	NL-PEX-N1703	¾″ PEX Elbow	25	200	0.07	22.40
	NL-PEX-N1704	1″ PEX Elbow	25	200	0.15	19.60
	NL-PEX-N1705	¾″ x ½″ PEX Elbow	10	500	0.05	26.50
	PEX Tee					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1802	½″ PEX Tee	25	500	0.05	21.40
	NL-PEX-N1803	¾″ PEX Tee	25	250	0.09	28.60
	NL-PEX-N1804	1″ PEX Tee	10	120	0.19	18.60
	NL-PEX-N1805	½″ x ½″ x ¾″ PEX Tee	10	250	0.12	37.50
	NL-PEX-N1806	¾″ x ½″ x ¾″ PEX Tee	10	250	0.09	24
	NL-PEX-N1807	¾″ x ¾″ x ½″ PEX Tee	25	150	0.09	28.60
	NL-PEX-N1808	¾″ x ½″ x ½″ PEX Tee	10	250	0.09	28.60
	NL-PEX-N1809	1″ x ¾″ x 1″ PEX Tee	10	200	0.21	26.70
	NL-PEX-N1810	1″ x 1″ x ¾″ PEX Tee	10	150	0.21	26.70
	NL-PEX-N1811	1″ x 1″ x ½″ PEX Tee	10	200	0.17	21.90
	NL-PEX-N1812	1″ x ¾″ x ¾″ PEX Tee	10	200	0.19	24.30
	NL-PEX-N1813	¾″ x ¾″ x 1″ PEX Tee	10	200	0.19	24.30
	PEX Plug					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N1902	½″ PEX Plug	25	900	0.02	25.50
	NL-PEX-N1903	¾″ PEX Plug	10	1000	0.04	29.50
	NL-PEX-N1904	1″ PEX Plug	10	450	0.07	33
	PEX x PB Coupling with ring					
	Model	Size	Bag qty.	Case qty.	Weight each	Weight case
	NL-PEX-N2001	½″ PEX x PB Coupling w/ ring	10	500	0.05	21.20
	NL-PEX-N2002	¾″ PEX x PB Coupling w/ ring	10	300	0.08	17.50

KVC Industries Corporation

KVC is a Canadian manufacturer and master distributor representing various valve manufacturers throughout the world as well as some of our own brand name products.

Our mission is to provide our customers with a knowledgeable team that delivers the right product for your application with best in class quality and service that exceeds customer expectations!



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