



Trust[®]

valves and flow control specialist

GATE, GLOBE AND CHECK VALVES

GGC-1

ABOUT US

PROFILE

Trust Valves was established in 2008 and is part of Firsia Group. We operate in the valve market as distributor and stockist of internationally recognized valve brands. Our company is designed to provide efficient and reliable service in harsh industrial applications, combining the proven performance of the industry's most rugged platform with the widest variety of valves and flow control options.

MISSION

Build a partnership with our customers by providing solutions that have deep impact and enable them to achieve core objective. Trust Valves aims to provide the best products and customer service. At Trust Valves, customer satisfaction is the highest priority.

VISION

Control business by providing solutions that give substantial value to our customers, provide highly valued careers for our associates and deliver solid returns to our investors.



PRODUCT LINE

FORGED STEEL VALVES

- Gate, globe and check type
- Sizes 1/4" through 2"
- Reduced and full port
- Class ANSI 150 to 2500 (4500 on request)
- Bolted, welded, Y-pattern and pressure seal bonnet/cover
- Threaded, socket/butt weld and flanged ends



CAST STEEL VALVES

- Gate, globe and check type
- Sizes 2" through 24"
- Class ANSI 150 to 1500
- Bolted, Y-pattern and pressure seal bonnet/cover
- Flanged and butt weld ends



WAFER CHECK VALVES

- Dual plate, disc check and single plate type
- Sizes 1/2" and above
- Class ANSI 150 to 2500
- Wafer, lug and flanged body style



GATE VALVES

FORGED STEEL – API 602 / ISO 15761



STANDARD FEATURES

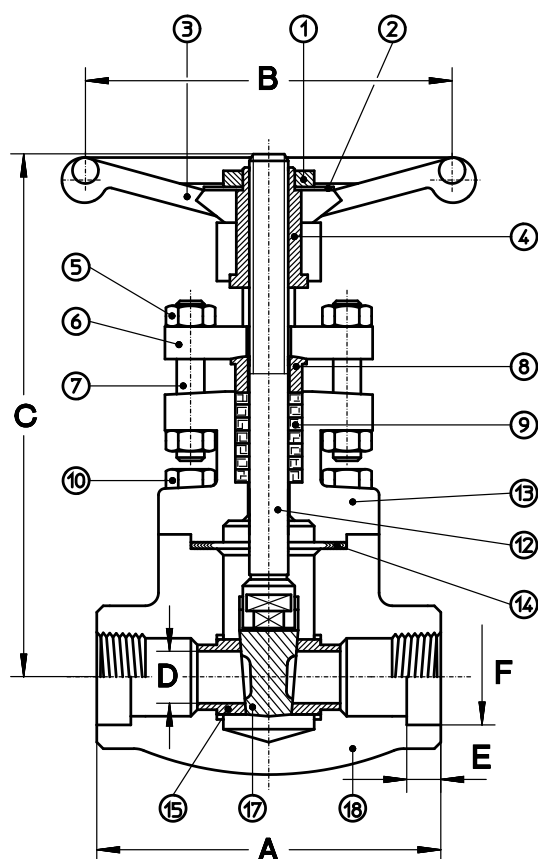
- **Construction:** Bolted or Welded Bonnet
OS&Y
Rising Stem
Non-Rising Handwheel
Renewable Seats
- **Design:** API 602
ISO 15761
- **Connections:** Socket Weld Ends
Threaded Ends
Butt Welding ends
Flanged ends
Ring Joint Ends
- **Testing:** API 598
API 6D
BS 6755
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

API 602 BELLOW SEAL VALVES - BODY/BONNET MATERIALS & TRIM

Body & Bonnet		API Trim No.	Description
Carbon Steel	ASTM A105	1	F6
L.T. Carbon Steel	ASTM A350 LF2	2	304
Alloy Steel	ASTM A182 F11	5	F6 – Full Stellite
Alloy Steel	ASTM A182 F22	8	F6 – Half Stellite
Alloy Steel	ASTM A182 F5	10	316
Alloy Steel	ASTM A182 F9	12	316 – Half Stellite
Stainless Steel	ASTM A182 F304/L	15	304 – Full Stellite
Stainless Steel	ASTM A182 F316/L	16	316 – Full Stellite

-Other materials available on request-

All data are for reference only use and subject to changes without prior notice.



**Gate Valve - Bolted Bonnet
Reduced and Full Bore - OS&Y**

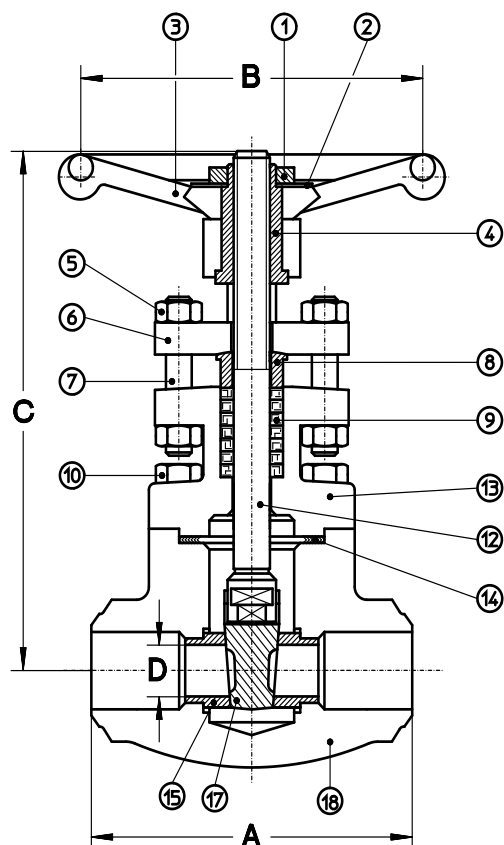
**Threaded Ends NPT ASME B 1.20.1
Socket Weld Ends ASME B 16.11**

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	10	Bolts
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

Fig. 1105 Class # 800	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	
	End to end	A mm.	80	90	110	127	127	127	210
	Handwheel	B mm.	80	80	110	110	130	130	180
	Center to Top Open	C mm.	148	163	178	210	243	262	365
	Dia. of Port	D mm.	9.6	14	18	24	30	37	48
	Approx Weight	Kg.	1.6	2.2	3.5	5	6.5	9	21.5
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

Fig. 1111 Class # 1500	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	
	End to end	A mm.	90	110	127	127	127	210	210
	Handwheel	B mm.	130	130	130	180	250	250	250
	Center to Top Open	C mm.	160	175	210	240	260	355	360
	Dia. of Port	D mm.	9.6	14	18	24	30	37	40
	Approx Weight	Kg.	2.2	3.8	5.5	6.8	9.5	22.5	23
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

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**Gate Valve – Bolted or Welded Bonnet
Reduced Bore - OS&Y**

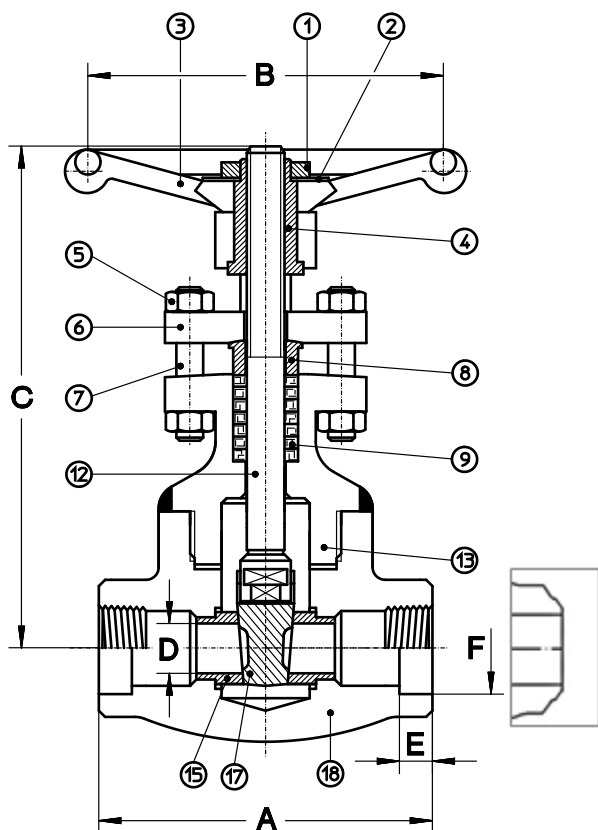
Butt Welding Ends ASME B16.25

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	10	Bolts
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

Fig. 1106 Class # 800	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	
	End to end	A mm.	80	90	110	127	127	127	210
	Handwheel	B mm.	80	80	110	110	130	130	180
	Center to Top Open	C mm.	148	163	178	210	243	262	365
	Dia. of Port	D mm.	9.6	14	18	24	30	37	48
	Approx Weight	Kg.	1.6	2.2	3.5	5	6.5	9	21.5
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

Fig. 1117 Class # 1500	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	
	End to end	A mm.	90	110	127	127	127	210	210
	Handwheel	B mm.	130	130	130	180	250	250	250
	Center to Top Open	C mm.	160	175	210	240	260	355	360
	Dia. of Port	D mm.	9.6	14	18	24	30	37	40
	Approx Weight	Kg.	2.2	3.8	5.5	6.8	9.5	22.5	23
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

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**Gate Valve – Welded Bonnet
Reduced and Full Bore - OS&Y**

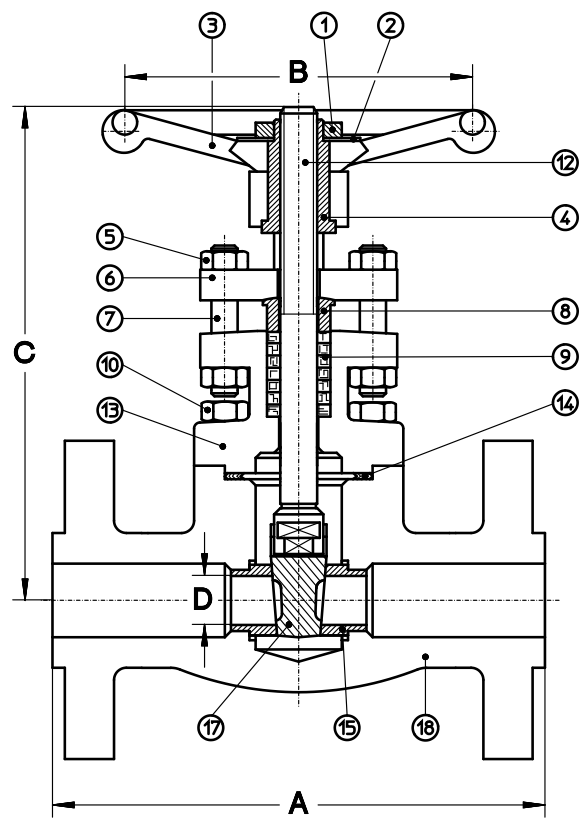
**Threaded Ends NPT ASME B 1.20.1
Socket Weld Ends ASME B 16.11
Butt Weld Ends ASME B 16.25**

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	12	Stem
13	Bonnet	15	Seat
17	Wedge	18	Body

Fig. 1100 Class # 800	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2.5"	3"
	End to end	A mm.	80	90	110	127	127	127	210
	Handwheel	B mm.	80	80	110	110	130	130	180
	Center to Top Open	C mm.	148	163	178	210	243	262	365
	Dia. of Port	D mm.	9.6	14	18	24	30	37	48
	Approx Weight	Kg.	1.6	2.2	3.5	5	6.5	9	21.5
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

Fig. 1113 Class # 1500	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2.5"	3"
	End to end	A mm.	90	110	127	127	127	210	210
	Handwheel	B mm.	130	130	130	180	250	250	250
	Center to Top Open	C mm.	160	175	210	240	260	355	360
	Dia. of Port	D mm.	9.6	14	18	24	30	37	40
	Approx Weight	Kg.	2.2	3.8	5.5	6.8	9.5	22.5	23
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

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**Gate Valve - Bolted Bonnet (Welded bonnet on request)
Reduced Bore (Full bore on request) - OS&Y**

**Integral Flanged Ends RF/RTJ Finish ASME B16.5
Butt Welding Ends ASME B16.25**

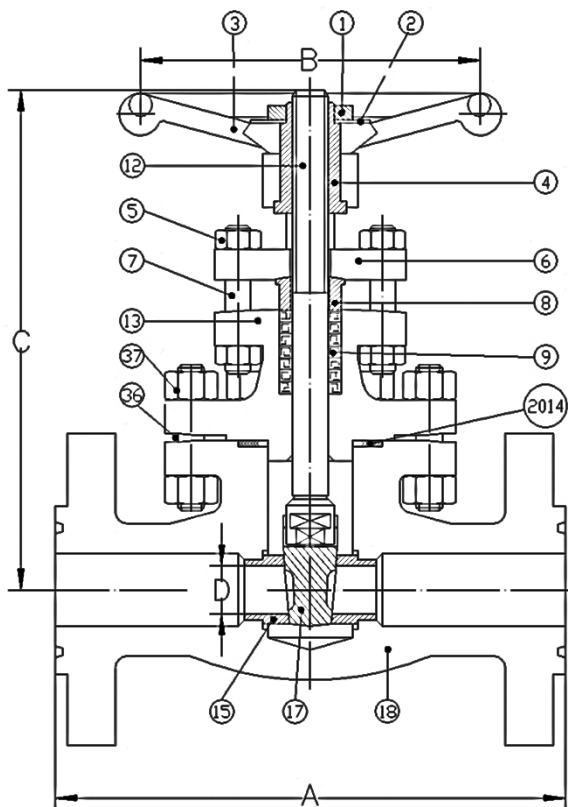
No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	10	Bolts
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

Fig. 1110 Class #150	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	108	118	127	---	165	178
	Handwheel	B mm.	80	80	110	---	130	130
	Center to Top Open	C mm.	170	195	203	---	243	262
	Dia. of Port	D mm.	9.6	14	18	---	30	37
	Approx Weight	Kg.	3.4	3.8	5.7	---	9.7	13.2

Fig. 1115 Class #300	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	140	153	165	---	191	216
	Handwheel	B mm.	80	80	110	---	130	130
	Center to Top Open	C mm.	170	195	203	---	243	262
	Dia. of Port	D mm.	9.6	14	18	---	30	37
	Approx Weight	Kg.	3.9	5	6.2	---	12	16.5

Fig. 1116 Class #600	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	165	190	216	---	241	292
	Handwheel	B mm.	80	80	110	---	130	130
	Center to Top Open	C mm.	148	163	178	---	243	262
	Dia. of Port	D mm.	9.6	14	18	---	30	37
	Approx Weight	Kg.	4	5.2	7.5	---	15	20.5

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Gate Valve - Round Bonnet (Welded bonnet on request)
Full Bore - OS&Y

Integral Flanged Ends RF/RTJ Finish ASME B16.5
Butt Welding Ends ASME B16.25

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	12	Stem
13	Bonnet	2014	Ring Joint Gasket
15	Seat	17	Wedge
18	Body	36	Studs
37	Stud Nut		

Fig. 1118 Class #1500	FULL PORT		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	216	229	254	---	305	368
	Handwheel	B mm.	110	130	130	---	250	300
	Center to Top Open	C mm.	260	300	300	---	390	420
	Dia. of Port	D mm.	14	18	24	---	37	48
	Approx Weight	Kg.	11	16	19	---	35	59

Fig. 1119 Class #2500	FULL PORT		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	264	273	308	---	384	451
	Handwheel	B mm.	130	130	250	---	300	300
	Center to Top Open	C mm.	304	315	368	---	445	538
	Dia. of Port	D mm.	14	18	24	---	37	37
	Approx Weight	Kg.	19	21	40	---	62	92

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GLOBE VALVES

FORGED STEEL – API 602 / ISO 15761



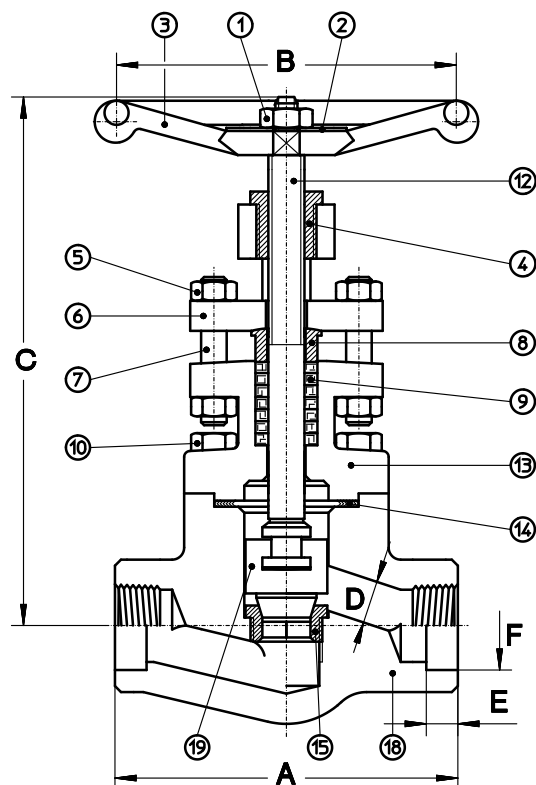
STANDARD FEATURES

- **Construction:** Bolted or Welded Bonnet
OS&Y
Rising Stem
Rising Handwheel
Renewable Seats
- **Design:** API 602
ISO 15761
- **Connections:** Socket Weld Ends
Threaded Ends
Butt Welding ends
Flanged ends
Ring Joint Ends
- **Testing:** API 598
API 6D
BS 6755
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

API 602 VALVES - BODY/BONNET MATERIALS & TRIM

Body & Bonnet		API Trim No.	Description
Carbon Steel	ASTM A105	1	F6
L.T. Carbon Steel	ASTM A350 LF2	2	304
Alloy Steel	ASTM A182 F11	5	F6 – Full Stellite
Alloy Steel	ASTM A182 F22	8	F6 – Half Stellite
Alloy Steel	ASTM A182 F5	10	316
Alloy Steel	ASTM A182 F9	12	316 – Half Stellite
Stainless Steel	ASTM A182 F304/L	15	304 – Full Stellite
Stainless Steel	ASTM A182 F316/L	16	316 – Full Stellite
-Other materials available on request-			

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Globe Valve - Bolted Bonnet
Reduced and Full Bore OS&Y

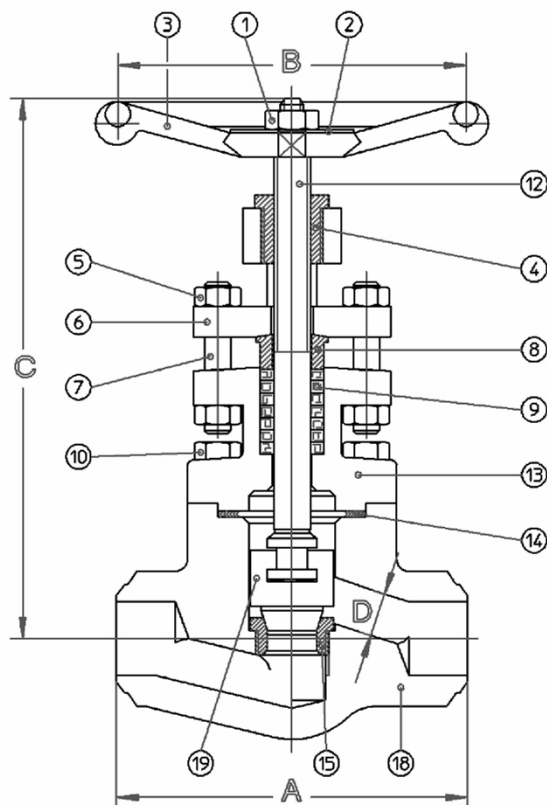
Threaded Ends ASME B 1.20.1 NPT
Socket Weld Ends ASME B 16.11

No.	Part	No.	Part
1	WheelNut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	10	Bolts
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

Fig. 1122/3 Class #800	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	
	End to end	A mm.	80	90	110	127	155	170	210
	Handwheel	B mm.	80	80	110	130	130	180	180
	Center to Top Open	C mm.	148	165	180	213	248	257	370
	Dia. of Port	D mm.	9	13	17.5	22.5	29.5	35	45.5
	Approx Weight	Kg.	1.7	2.3	3.6	5.5	7.5	11.6	22.0
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

Fig. 1126/7 Class #1500	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	
	End to end	A mm.	90	110	127	155	170	210	210
	Handwheel	B mm.	80	110	130	130	180	180	180
	Center to Top Open	C mm.	160	175	210	244	250	370	375
	Dia. of Port	D mm.	9	13	17	21	28	33	37.5
	Approx Weight	Kg.	2.2	3.9	6	8	12	19	23
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

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**Globe Valve - Bolted Bonnet
Reduced and Full Bore - OS&Y**

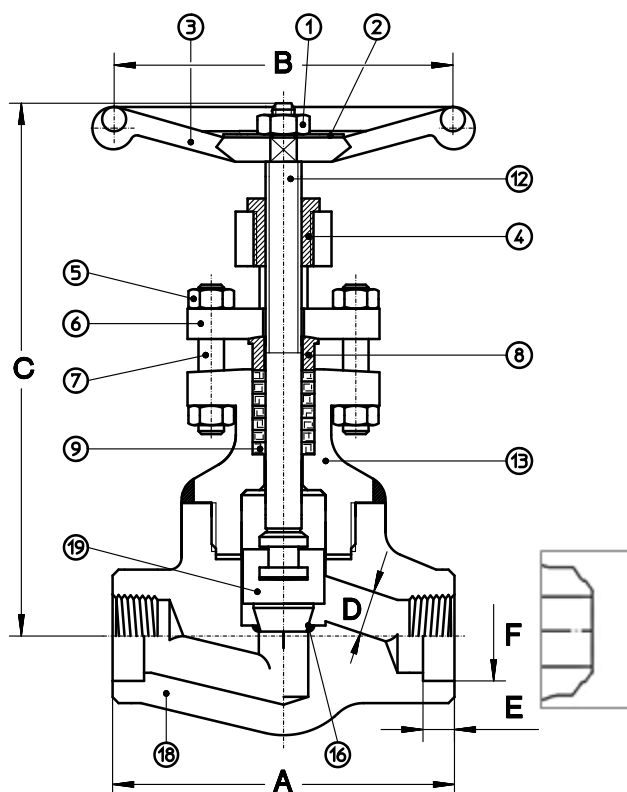
Butt Welding Ends ASME B16.25

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	10	Bolts
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

Fig. 1129 Class #800	REDUCED BORE		½ ”	¾ ”	1 ”	1.1 / 4 ”	1.1 / 2 ”	2 ”	-
	FULL BORE		⅜ ”	½ ”	¾ ”	1 ”	1.1 / 4 ”	1.1 / 2 ”	2 ”
	End to end	A mm.	80	90	110	127	155	170	210
	Handwheel	B mm.	80	80	110	130	130	180	180
	Center to Top Open	C mm.	148	165	180	213	248	257	370
	Dia. of Port	D mm.	9	13	17.5	22.5	29.5	35	45.5
	Approx Weight	Kg.	1.7	2.3	3.6	5.5	7.5	11.6	22.0
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

Fig. 1128 Class #1500	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		⅜"	½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	90	110	127	155	170	210	210
	Handwheel	B mm.	80	110	130	130	180	180	180
	Center to Top Open	C mm.	160	175	210	244	250	370	375
	Dia. of Port	D mm.	9	13	17	21	28	33	37.5
	Approx Weight	Kg.	2.2	3.9	6	8	12	19	23
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

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**Globe Valve - Welded Bonnet
Reduced and Full Bore - OS&Y**

**Threaded Ends NPT ASME B 1.20.1
Socket Weld Ends ASME B 16.11
Butt welding Ends ASME B16.25**

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	-	-
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

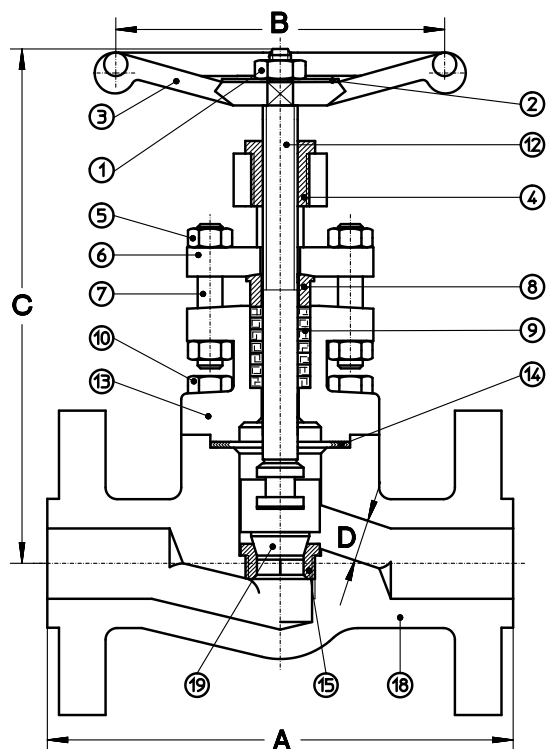
Fig. 1161 Class #800	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"
	End to end	A mm.	80	90	110	127	155	170	210
	Handwheel	B mm.	80	80	110	130	130	180	180
	Center to Top Open	C mm.	148	165	180	213	248	257	370
	Dia. of Port	D mm.	9	13	17.5	22.5	29.5	35	45.5
	Approx Weight	Kg.	1.7	2.3	3.6	5.5	7.5	11.6	22.0

NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable

Fig. 1164 Class #1500	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"
	End to end	A mm.	90	110	127	155	170	210	210
	Handwheel	B mm.	80	110	130	130	180	180	180
	Center to Top Open	C mm.	160	175	210	244	250	370	375
	Dia. of Port	D mm.	9	13	17	21	28	33	37.5
	Approx Weight	Kg.	2.2	3.9	6	8	12	19	23

NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable

All data are for reference only use and subject to changes without prior notice.



**Globe Valve - Bolted Bonnet (Welded on request)
Reduced Bore (Full bore on request) - OS&Y**

**Integral Flanged Ends RF/RTJ Finish ASME B16.5
Butt Welding Ends ASME B16.25**

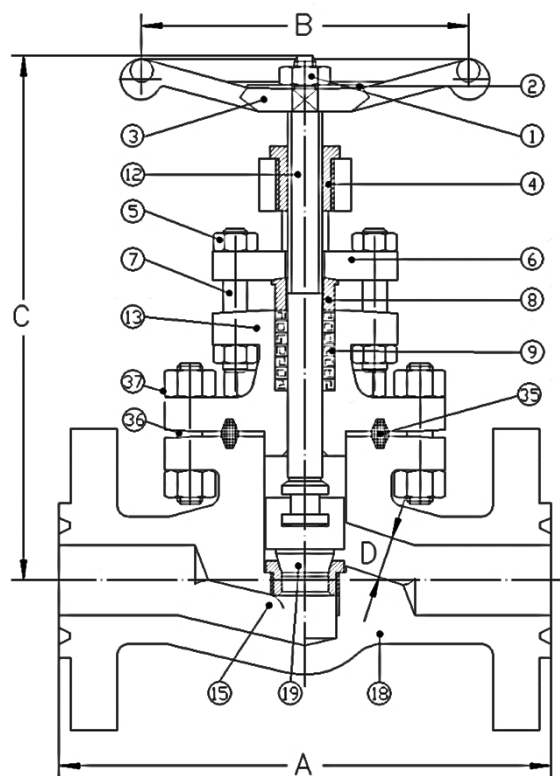
No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	10	Bolts
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

Fig. 1125 Class #150	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	108	118	127	---	165	203
	Handwheel	B mm.	80	80	110	---	130	180
	Center to Top Open	C mm.	170	197	205	---	248	257
	Dia. of Port	D mm.	9	13	17.5	---	29.5	35
	Approx Weight	Kg.	3.4	4	5.7	---	10	17

Fig. 1130 Class #300	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	152	178	203	---	229	267
	Handwheel	B mm.	80	80	110	---	130	180
	Center to Top Open	C mm.	148	165	180	---	248	257
	Dia. of Port	D mm.	9	13	17.5	---	29.5	35
	Approx Weight	Kg.	4	5	7.3	---	14	20.5

Fig. 1135 Class #600	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	165	190	216	---	241	292
	Handwheel	B mm.	80	80	110	---	130	130
	Center to Top Open	C mm.	148	165	180	---	248	257
	Dia. of Port	D mm.	9	13	17.5	---	29.5	35
	Approx Weight	Kg.	4.5	5.5	7.6	---	15	21

All data are for reference only use and subject to changes without prior notice.



**Globe Valve - Round Bonnet (Welded bonnet on request)
Full Bore - OS&Y**

**Integral Flanged Ends RF/RTJ Finish ASME B16.5
Butt Welding Ends ASME B16.25**

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	12	Stem
13	Bonnet	15	Seat
18	Body	19	Disc / Piston
35	Ring Joint Gasket	36	Studs
37	Stud Nut		

Fig. 1131 Class #1500	FULL PORT		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	216	229	254	---	305	368
	Handwheel	B mm.	110	130	130	---	250	300
	Center to Top Open	C mm.	260	300	300	---	390	420
	Dia. of Port	D mm.	13	17	21	---	33	37.5
	Approx Weight	Kg.	11	16	19.5	---	34	61

Fig. 1132 Class #2500	FULL PORT		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	264	273	308	---	384	451
	Handwheel	B mm.	130	130	250	---	300	300
	Center to Top Open	C mm.	332	332	370	---	435	570
	Dia. of Port	D mm.	11	17	21	---	33	37.5
	Approx Weight	Kg.	19.5	21.5	42	---	65	95

All data are for reference only use and subject to changes without prior notice.

CHECK VALVES

FORGED STEEL – API 602 / ISO 15761



STANDARD FEATURES

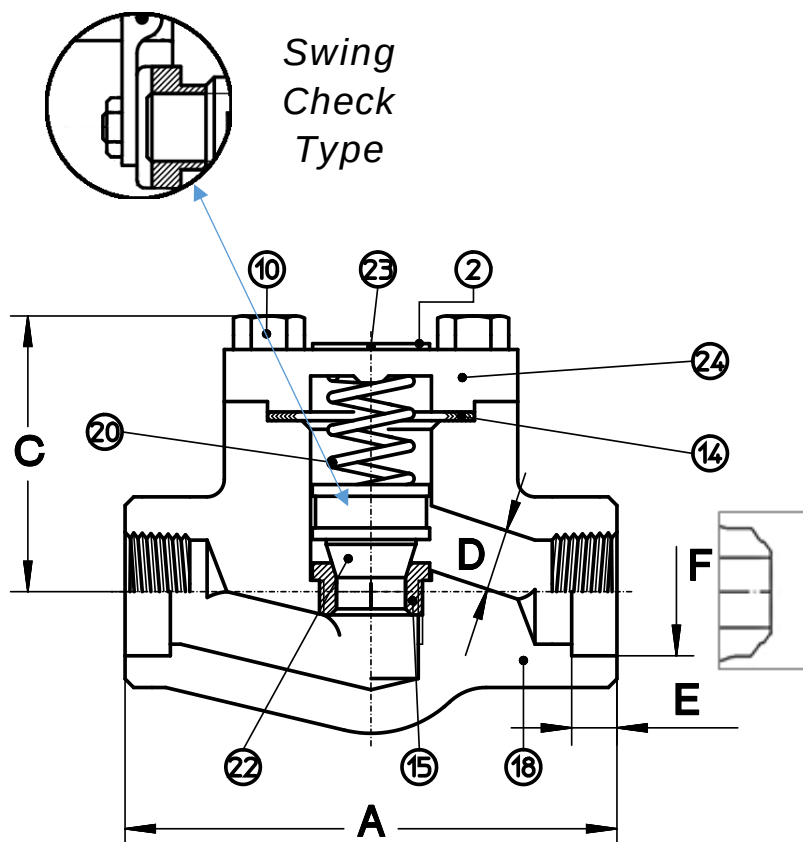
- **Construction:** Bolted or Welded Cover
- **Design:** API 602
ISO 15761
- **Connections:** Socket Weld Ends
Threaded Ends
Butt Welding ends
Flanged ends
Ring Joint Ends
- **Testing:** API 598
API 6D
BS 6755
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

API 602 VALVES - BODY / COVER MATERIALS & TRIM

Body & Cover		API Trim No.	Description
Carbon Steel	ASTM A105	1	F6
L.T. Carbon Steel	ASTM A350 LF2	2	304
Alloy Steel	ASTM A182 F11	5	F6 – Full Stellite
Alloy Steel	ASTM A182 F22	8	F6 – Half Stellite
Alloy Steel	ASTM A182 F5	10	316
Alloy Steel	ASTM A182 F9	12	316 – Half Stellite
Stainless Steel	ASTM A182 F304/L	15	304 – Full Stellite
Stainless Steel	ASTM A182 F316/L	16	316 – Full Stellite

-Other materials available on request-

All data are for reference only use and subject to changes without prior notice.



Piston/Swing Check Valve (Ball on request)
Bolted and Welded Cover
Reduced and Full Bore

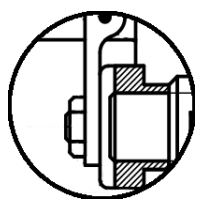
Threaded Ends NPT ASME B1.20.1
Socket Weld Ends ASME B16.11
Butt Welding Ends ASME B16.25

No.	Part
2	Nameplate
10	Bolts
14	Gasket
15	Seat
18	Body
20	Spring
22	Piston
23	Rivet
24	Cover

Fig. 1135/50 Class # 800	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	2"
	End to end	A mm.	80	90	110	127	155	170	210
	Center to Top Open	C mm.	53	60	73	80	98	118	150
	PISTON/BALL Dia. of Port	D mm.	9	13	17.5	22.5	29.5	35	45.5
	SWING Dia. of Port	D mm.	9.6	14	18	24	30	37	48
	Approx Weight	Kg.	1.3	1.4	2.4	4	5.5	6.5	17.5
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

Fig. 1141/2/3 Class # 1500	REDUCED BORE		½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¾"	1"	1.1/4"	1.1/2"	2"	2"	2"
	End to end	A mm.	90	110	127	155	170	210	210
	Center to Top Open	C mm.	60	73	80	98	118	150	150
	PISTON/BALL Dia. of Port	D mm.	9	13	17.5	22.5	29.5	35	37.5
	SWING Dia. of Port	D mm.	9.6	14	18	24	30	37	40
	Approx Weight	Kg.	1.5	2.4	4	6	9.5	19	18.5
NOTE: End to end dimensions are for reference only and according to standard manufacturers – ASME B16.10 not applicable									

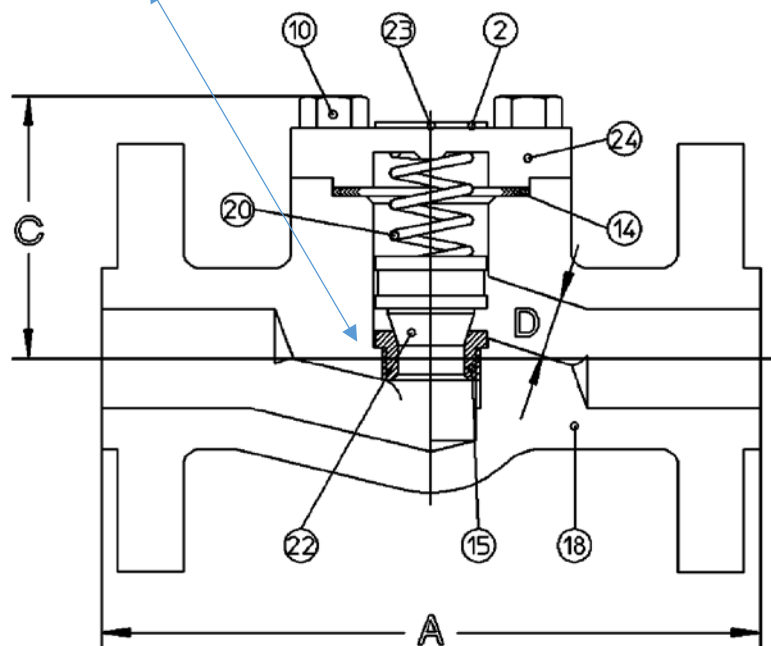
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*Swing
Check
Version*

Piston/Swing Check Valve (Ball on request)
Bolted and Welded Cover
Reduced Bore (Full bore on request)

Integral Flanged Ends RF/RTJ Finish ASME B16.5
Butt welding Ends ASME B16.25



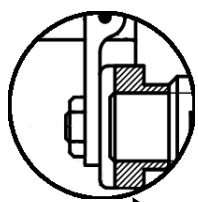
No.	Part
2	Nameplate
10	Bolts
14	Gasket
15	Seat
18	Body
20	Spring
22	Piston
23	Rivet
24	Cover

Fig. 1165 Class 150	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	108	118	127	---	165	203
	Handwheel	B mm.	80	80	110	---	130	180
	Center to Top Open	C mm.	75	92	98	---	98	110
	Dia. of Port	D mm.	9	13	17.5	---	29.5	35
	Approx Weight	Kg.	2.9	3.2	4.3	---	6.5	14.5

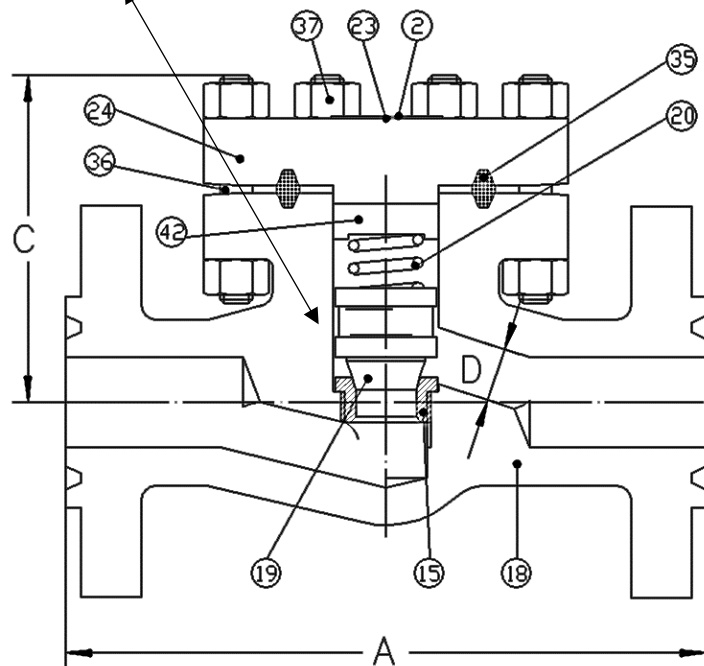
Fig. 1170 Class 300	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	152	178	203	---	229	267
	Handwheel	B mm.	80	80	110	---	130	180
	Center to Top Open	C mm.	53	60	73	---	98	110
	Dia. of Port	D mm.	9	13	17.5	---	29.5	35
	Approx Weight	Kg.	3.6	4.2	6	---	12	16

Fig. 1175 Class 600	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	152	178	203	---	229	267
	Handwheel	B mm.	80	80	110	---	130	180
	Center to Top Open	C mm.	53	60	73	---	98	110
	Dia. of Port	D mm.	9	13	17.5	---	29.5	35
	Approx Weight	Kg.	3.6	4.2	6	---	12	16

All data are for reference only use and subject to changes without prior notice.



*Swing
Check
Version*



**Piston/Swing Check Valve (Ball on request)
Round Cover (Welded on request)
Full Bore**

**Integral Flanged Ends RF/RTJ Finish ASME B16.5
Butt welding Ends ASME B16.25**

No.	Part
2	Nameplate
10	Bolts
14	Gasket
15	Seat
18	Body
20	Spring
22	Piston
23	Rivet
24	Cover

Fig. 1148/58 Class #1500	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	216	229	254	-	305	368
	Center to Top	C mm.	130	140	155	-	170	195
	PISTON/BALL Dia. of Port	D mm.	13	17	21	-	33	37.5
	SWING Dia. of Port	D mm.	14	18	24	-	37	48
	Approx Weight	Kg.	8	14	17	-	28	37

Fig. 1149/59 Class #2500	Ø		½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	264	273	308	-	384	451
	Center to Top	C mm.	155	155	170	-	245	260
	PISTON/BALL Dia. of Port	D mm.	11	17	21	-	33	37.5
	SWING Dia. of Port	D mm.	-	-	-	-	-	-
	Approx Weight	Kg.	17	21	28	-	58	85

All data are for reference only use and subject to changes without prior notice.

GATE VALVES

CAST STEEL – API 600 / BS 1414



STANDARD FEATURES

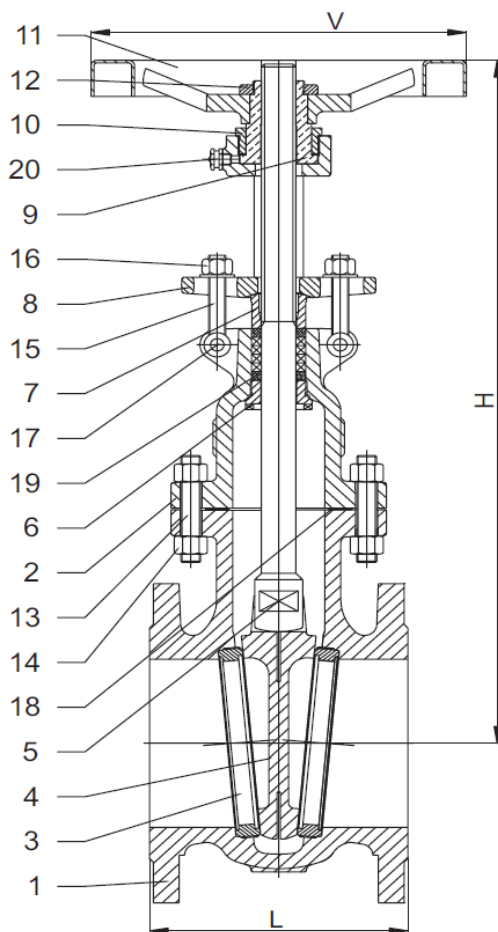
- **Construction:** Bolted Bonnet
OS&Y
Rising Stem
Non Rising Handwheel
Renewable Seats
- **Design:** API 600
BS 1414
- **Connections:** Flanged ends
Butt Welding ends
Ring Joint ends
- **Testing:** API 598
API 6D
BS 6755
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

API 600 VALVES - BODY/BONNET MATERIALS & TRIM

Body & Bonnet		API Trim No.	Description
Carbon Steel	ASTM A216 WCB / WCC	1	F6
L.T. Carbon Steel	ASTM A352 LCB / LCC	2	304
Alloy Steel	ASTM A217 WC6	5	F6 – Full Stellite
Alloy Steel	ASTM A217 WC9	8	F6 – Half Stellite
Alloy Steel	ASTM A217 C5	10	316
Alloy Steel	ASTM A217 C12	12	316 – Half Stellite
Stainless Steel	ASTM A351 CF3 / CF3M	15	304 – Full Stellite
Stainless Steel	ASTM A351 CF8 / CF8M	16	316 – Full Stellite

-Other materials available on request-

All data are for reference only use and subject to changes without prior notice.



Gate Valve - OS&Y

Bolted Bonnet for Class #150/300

RTJ Bolted Bonnet for Class #600/1500/2500

Integral Flanged Ends RF/RTJ Finish ASME B16.5

Butt Welding Ends ASME B16.25

No.	Part	No.	Part
1	Body	2	Bonnet
3	Seat Ring surface	4	Wedge surface
5	Stem	6	Back Seat
7	Gland	8	Gland Flange
9	Yoke Sleeve	10	Yoke sleeve
11	Handwheel	12	Handwheel nut
13	Bolts	14	Nuts
15	Eye bolts	16	Nuts
16	Nuts	17	Eye bolt pin
18	Gasket	19	Packing
20	Grease nipple	-	-

Fig. 1205 Class #150	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF End to e.	L mm.	178	203	229	267	292	330	356	381	406	432	457	508
	BW End to e.	L mm.	216	282	305	403	419	457	502	571	610	660	711	813
	Center to top	H mm.	376	462	574	843	988	1179	1387	1613	1839	2012	2184	2560
	Handwheel	V mm.	200	225	250	300	400	500*	500*	600*	600*	700*	700*	800*
	Approx Weight	Kg.	21	32	50	89	113	204	290	391	541	631	812	1183

Fig. 1210 Class #300	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	216	282	305	404	419	457	502	762	838	914	991	1143
	RTJ End to e.	L mm.	232	298	321	419	435	473	518	778	854	930	1010	1165
	Center to top	H mm.	437	508	610	838	1044	1252	1448	1702	1857	2088	2426	2659
	Handwheel	V mm.	200	225	250	400	500*	500*	600*	600*	700*	700*	800*	900*
	Approx Weight	Kg.	29	51	80	155	246	371	487	802	992	1303	1674	2566

Fig. 1215 Class #600	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	292	356	432	559	660	787	838	889	991	1092	1194	1397
	RTJ End to e.	L mm.	295	359	435	562	663	791	841	892	994	1095	1200	1407
	Center to top	H mm.	465	551	683	927	1118	1341	1560	1646	1821	2014	2662	2970
	Handwheel	V mm.	200	250	400	500*	600*	700*	700*	800*	900*	1000*	1600*	G.O.
	Approx Weight	Kg.	44	80	145	309	523	780	1109	1432	2007	2277	3108	4688

Fig. 1218 Class #1500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	368	470	546	705	832	991	1130	1257	1384	1537	1674	1943
	RTJ End to e.	L mm.	371	473	549	711	842	1000	1146	1276	1407	1559	1686	1972
	Center to top	H mm.	450	620	760	930	1148	1336	1454	1645	1815	1835	1970	2230
	Handwheel	V mm.	250	400	500*	600*	700*	900*	1600*	1600*	G.O.	G.O.	G.O.	G.O.
	Approx Weight	Kg.	-	-	-	-	-	-	-	-	-	-	-	-

Fig. 1219 Class #2500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	451	578	673	914	1022	1270	1422	-	-	-	-	-
	RTJ End to e.	L mm.	454	584	683	927	1038	1292	1445	-	-	-	-	-
	Center to top	H mm.	450	620	760	930	1148	1255	1439	-	-	-	-	-
	Handwheel	V mm.	250	400	500*	600*	700*	G.O.	G.O.	-	-	-	-	-
	Approx Weight	Kg.	-	-	-	-	-	-	-	-	-	-	-	-

*Gear operator recommended

All data are for reference only use and subject to changes without prior notice.

GLOBE VALVES

CAST STEEL – BS 1873 / ASME B16.34



STANDARD FEATURES

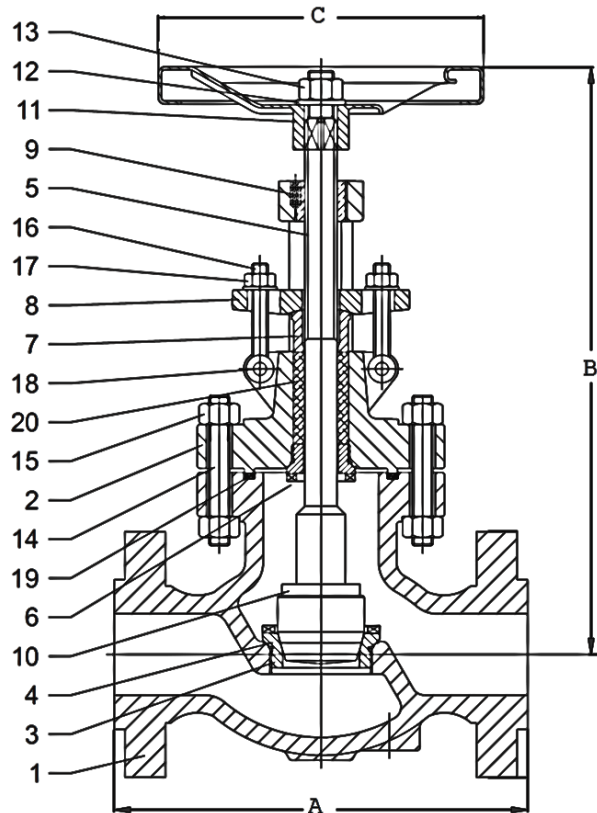
- **Construction:** Bolted Bonnet
OS&Y
Rising Stem
Rising Handwheel
Renewable Seats
- **Design:** BS 1873
ASME B16.34
- **Connections:** Flanged ends
Butt Welding ends
Ring Joint ends
- **Testing:** API 598
API 6D
BS 6755
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

BS 1873 VALVES - BODY/BONNET MATERIALS & TRIM

Body & Bonnet		API Trim No.	Description
Carbon Steel	ASTM A216 WCB / WCC	1	F6
L.T. Carbon Steel	ASTM A352 LCB / LCC	2	304
Alloy Steel	ASTM A217 WC6	5	F6 – Full Stellite
Alloy Steel	ASTM A217 WC9	8	F6 – Half Stellite
Alloy Steel	ASTM A217 C5	10	316
Alloy Steel	ASTM A217 C12	12	316 – Half Stellite
Stainless Steel	ASTM A351 CF3 / CF3M	15	304 – Full Stellite
Stainless Steel	ASTM A351 CF8 / CF8M	16	316 – Full Stellite

-Other materials available on request-

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Globe Valve - OS&Y

Bolted Bonnet for Class #150/300

RTJ Bolted Bonnet for Class #600/1500/2500

Integral Flanged Ends RF/RTJ Finish ASME B16.5

Butt Welding Ends ASME B16.25

No.	Part	No.	Part
1	Wheelnut	2	Nameplate
3	Handwheel	4	Yoke Nut
5	Gland Nut	6	Gland Flange
7	Gland Stud	8	Gland
9	Packing	10	Bolts
12	Stem	13	Bonnet
14	Gasket	15	Seat
17	Wedge	18	Body

Fig. 1220 Class #150	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	A mm.	203	241	292	406	495	622	699	787	914	-	-	-
	RTJ End to e.	A mm.	216	254	305	419	508	635	711	800	927	-	-	-
	Center to top	B mm.	320	380	430	560	680	750	860	910	1240	-	-	-
	Handwheel	C mm.	200	225	250	300	400*	600*	600*	800*	1000*	-	-	-
	Approx Weight	Kg.	23	42	62	110	190	276	476	625	-	-	-	-

Fig. 1225 Class #300	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	A mm.	267	318	357	445	559	622	711	838	864	-	-	-
	RTJ End to e.	A mm.	282	333	371	460	575	638	727	854	879	-	-	-
	Center to top	B mm.	390	410	440	680	800	850	1010	1150	1380	-	-	-
	Handwheel	C mm.	200	225	300	400*	500*	600*	600*	800*	1000*	-	-	-
	Approx Weight	Kg.	34	59	92	191	325	461	682	1112	-	-	-	-

Fig. 1230 Class #600	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	A mm.	292	256	435	559	660	787	838	889	991	-	-	-
	RTJ End to e.	A mm.	295	359	435	562	663	790	841	892	994	-	-	-
	Center to top	B mm.	350	545	600	780	840	1235	1311	1430	1670	-	-	-
	Handwheel	C mm.	200	250	300*	600*	600*	700*	800*	800*	1000*	-	-	-
	Approx Weight	Kg.	41	77	142	354	566	-	-	-	-	-	-	-

Fig. 1231 Class #1500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	A mm.	368	470	546	705	832	991	1130	-	-	-	-	-
	RTJ End to e.	A mm.	371	473	549	711	842	1000	1146	-	-	-	-	-
	Center to top	B mm.	575	770	840	973	1043	1670	1750	-	-	-	-	-
	Handwheel	C mm.	300	500*	500*	900*	1000*	1000*	1000*	-	-	-	-	-
	Approx Weight	Kg.	-	-	-	-	-	-	-	-	-	-	-	-

*Gear operator recommended

All data are for reference only use and subject to changes without prior notice.

SWING CHECK VALVES

CAST STEEL – BS 1868 / ASME B16.34



STANDARD FEATURES

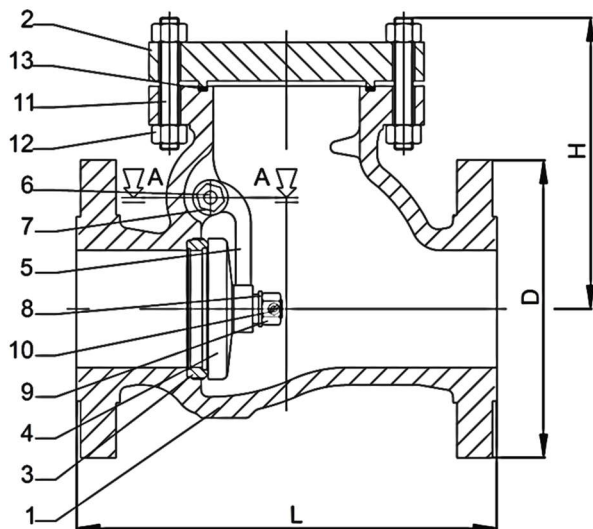
- **Construction:** Bolted Cover
- **Design:** BS 1868
ASME B16.34
API 6D (on request)
- **Connections:** Flanged ends
Butt Welding ends
Ring Joint ends
- **Testing:** API 598
API 6D
BS 6755
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

BS 1868 VALVES - BODY/COVER MATERIALS & TRIM

Body & Cover		API Trim No.	Description
Carbon Steel	ASTM A216 WCB / WCC	1	F6
L.T. Carbon Steel	ASTM A352 LCB / LCC	2	304
Alloy Steel	ASTM A217 WC6	5	F6 – Full Stellite
Alloy Steel	ASTM A217 WC9	8	F6 – Half Stellite
Alloy Steel	ASTM A217 C5	10	316
Alloy Steel	ASTM A217 C12	12	316 – Half Stellite
Stainless Steel	ASTM A351 CF3 / CF3M	15	304 – Full Stellite
Stainless Steel	ASTM A351 CF8 / CF8M	16	316 – Full Stellite

-Other materials available on request-

All data are for reference only use and subject to changes without prior notice.



Swing Check Valve
Bolted Bonnet for #150/300
RTJ Bolted Bonnet for #600/1500/2500

Integral Flanged Ends RF/RTJ Finish ASME B16.5
Butt Welding Ends ASME B16.25

No.	Part	No.	Part
1	<i>Body</i>	2	<i>Cover</i>
3	<i>Seat Ring</i>	4	<i>Disc Seat</i>
5	<i>Hinge</i>	6	<i>Hinge Pin</i>
7	<i>Plug</i>	8	<i>Washer</i>
9/12	<i>Nuts</i>	10	<i>Pin</i>
11	<i>Bolts</i>	13	<i>Gasket</i>

Fig. 1235 Class #150	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	203	241	292	356	495	622	699	787	864	978	978	1295
	RTJ End to e.	L mm.	216	254	305	368	508	635	711	800	876	991	991	1308
	Center to top	H mm.	173	196	216	325	363	437	455	498	538	615	696	762
	Approx Weight	Kg.	16	29	45	98	135	210	313	408	521	621	822	1308

Fig. 1240 Class #300	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	267	318	356	445	533	622	711	838	864	978	1016	1346
	RTJ End to e.	L mm.	282	333	371	460	549	638	727	854	879	994	1035	1369
	Center to top	H mm.	193	226	249	356	404	475	556	587	640	726	767	853
	Approx Weight	Kg.	26	43	65	129	197	315	456	611	782	1032	1313	2145

Fig. 1245 Class #600	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	292	356	432	559	660	787	838	889	991	1092	1194	1397
	RTJ End to e.	L mm.	295	359	435	562	663	790	841	892	994	1095	1200	1407
	Center to top	H mm.	198	246	338	427	493	574	645	671	666	740	838	-
	Approx Weight	Kg.	30	52	98	219	421	581	783	913	-	-	-	-

Fig. 1248 Class #1500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	368	470	546	705	832	991	1130	1257	1384	1537	1664	1943
	RTJ End to e.	L mm.	371	473	549	711	842	1000	1146	1276	1407	1559	1686	1972
	Center to top	H mm.	263	304	423	506	716	762	818	-	-	-	-	-
	Approx Weight	Kg.	-	-	-	-	-	-	-	-	-	-	-	-

Fig. 1249 Class #2500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/BW End to e.	L mm.	451	578	673	914	1022	1270	1422	-	-	-	-	-
	RTJ End to e.	L mm.	454	584	683	927	1038	1292	1445	-	-	-	-	-
	Center to top	H mm.	-	-	-	-	-	-	-	-	-	-	-	-
	Approx Weight	Kg.	-	-	-	-	-	-	-	-	-	-	-	-

All data are for reference only use and subject to changes without prior notice.

DUAL PLATE CHECK VALVES

CAST AND BAR-STOCK – API 594



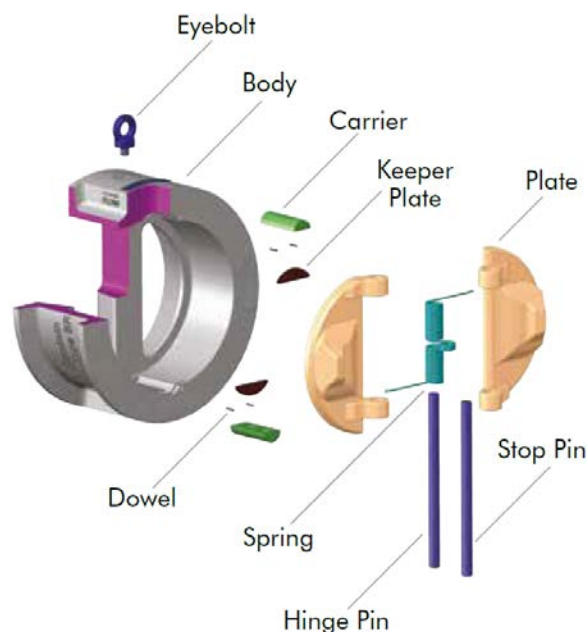
STANDARD FEATURES

- **Construction:** Retainerless
- **Design:** API 594
- **Body Style:** Wafer
LUG
Flanged
- **Testing:** API 598
API 6D
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

API 594 VALVES - BODY/PLATES MATERIALS & TRIM

Body & Plates		API Trim No.	Description
Carbon Steel	ASTM A216 WCB / WCC	1	F6
L.T. Carbon Steel	ASTM A352 LCB / LCC	2	304
Alloy Steel	ASTM A217 WC6	5	F6 – Full Stellite
Alloy Steel	ASTM A217 WC9	8	F6 – Half Stellite
Alloy Steel	ASTM A217 C5	10	316
Alloy Steel	ASTM A217 C12	12	316 – Half Stellite
Stainless Steel	ASTM A351 CF3 / CF3M	15	304 – Full Stellite
Stainless Steel	ASTM A351 CF8 / CF8M	16	316 – Full Stellite
Other materials available on request		Soft seats available on request	
<u>Small size valves with Stellite overlay plates are supplied with Solid Stellite plates</u>			

All data are for reference only use and subject to changes without prior notice.



Wafer Body Style – ASME B16.5

Dual Plate Check Valve – API 594

Retainerless body

Face to face dimension acc. to API 594

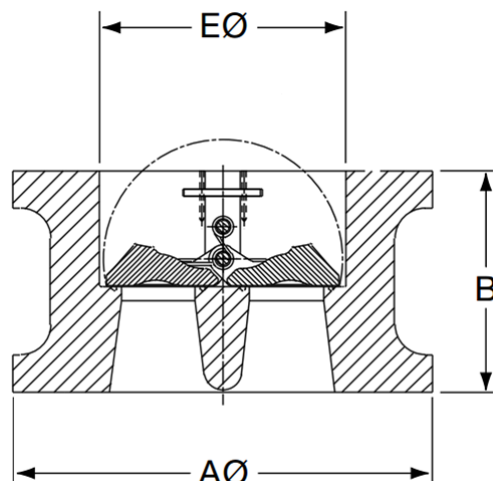


Fig. 1405 Class #150	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF End to e.	B mm.	60	73	79	98	127	146	181	184	191	203	219	222
	Outside Diam.	A mm.	105	137	175	222	279	340	410	451	514	549	606	718
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	3	6	9	18	25	56	107	102	131	163	205	282

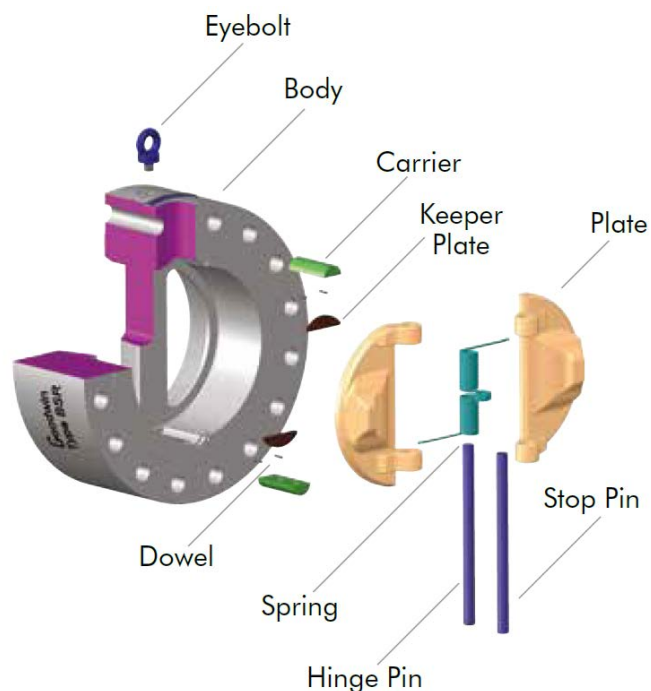
Fig. 1410 Class #300	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF End to e.	B mm.	60	79	79	98	127	146	181	222	232	264	292	318
	Outside Diam.	A mm.	111	149	181	251	308	362	422	486	540	597	654	775
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	4	8	9	21	40	63	112	176	183	260	331	487

Fig. 1415 Class #600	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/RTJ End to e.	B mm.	60	73	79	137	165	213	229	273	305	362	368	438.5
	Outside Diam.	A mm.	111	149	194	267	321	400	457	492	565	613	683	791
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	4	8	13	38	71	118	192	207	325	447	528	817

Fig. 1418 Class #1500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/RTJ End to e.	B mm.	70	83	102	159	206	248	305	356	384	468	533	559
	Outside Diam.	A mm.	143	175	210	283	352	435	521	578	641	705	756	902
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	7	13	21	60	120	182	392	395	587	791	1275	2713

Fig. 1419 Class #2500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/RTJ End to e.	B mm.	70	86	105	159	206	254	305	-	-	-	-	-
	Outside Diam.	A mm.	146	197	235	318	387	476	549	-	-	-	-	-
	Dia. of Port	E mm.	57	87	113	166	207	260	300	-	-	-	-	-
	Approx Weight	Kg.	8	16	25	70	137	235	451	-	-	-	-	-

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LUG Body Style – ASME B16.5 Threaded and through holes

Dual Plate Check Valve – API 594

Retainerless body

Face to face dimension acc. to API 594

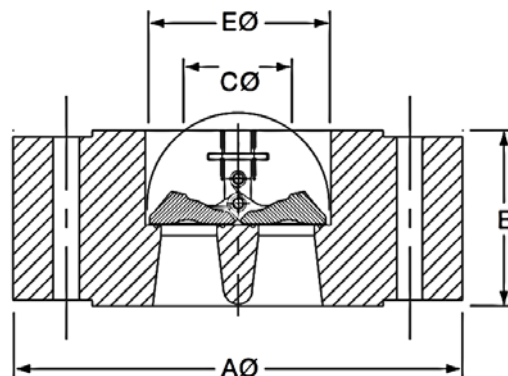


Fig. 1420 Class #150	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF End to e.	B mm.	60	73	73	98	127	146	181	184	191	203	219	222
	Outside Diam.	A mm.	152	191	229	279	343	406	483	533	597	635	699	813
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	5	8	13	33	64	96	181	199	828	290	348	396

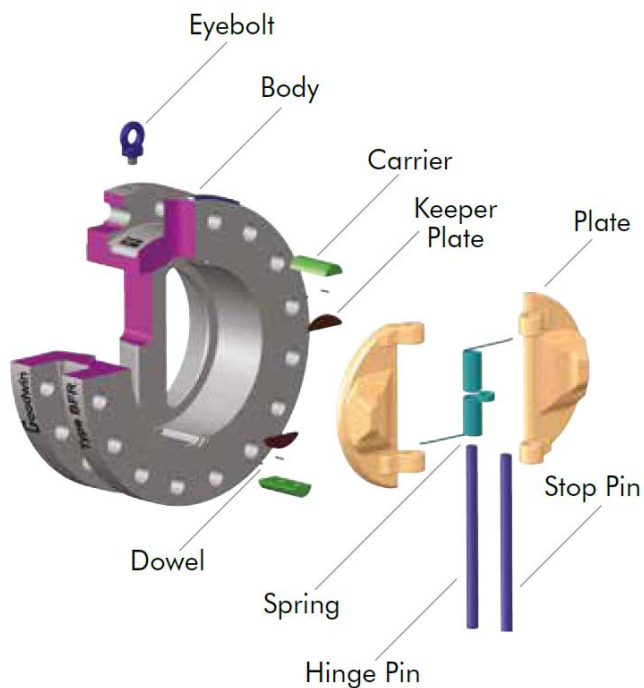
Fig. 1425 Class #300	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF End to e.	B mm.	60	73	73	98	127	146	181	222	232	264	292	318
	Outside Diam.	A mm.	165	210	254	318	381	445	521	584	648	711	775	914
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	7	15	20	46	82	122	214	313	489	558	700	1076

Fig. 1430 Class #600	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/RTJ End to e.	B mm.	60	73	79	137	165	213	229	273	305	362	368	438
	Outside Diam.	A mm.	165	210	273	356	419	508	559	603	686	743	813	940
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	7	14	27	77	129	234	300	313	660	933	1018	1554

Fig. 1431 Class #1500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/RTJ End to e.	B mm.	70	83	102	159	206	248	305	356	384	468	533	559
	Outside Diam.	A mm.	216	267	311	394	483	584	673	749	826	914	984	1168
	Dia. of Port	E mm.	57	87	113	166	207	260	300	339	387	438	487	579
	Approx Weight	Kg.	14	26	51	119	214	378	792	905	1170	1665	2249	3230

Fig. 1432 Class #2500	Ø		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	RF/RTJ End to e.	B mm.	70	86	105	159	206	254	305	-	-	-	-	-
	Outside Diam.	A mm.	235	305	356	483	552	673	762	-	-	-	-	-
	Dia. of Port	E mm.	57	87	113	166	207	260	300	-	-	-	-	-
	Approx Weight	Kg.	18	38	69	165	277	500	890	-	-	-	-	-

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Flanged Body Style – ASME B16.5

Dual Plate Check Valve – API 594

Retainerless body

Face to face dimension acc. to API 594

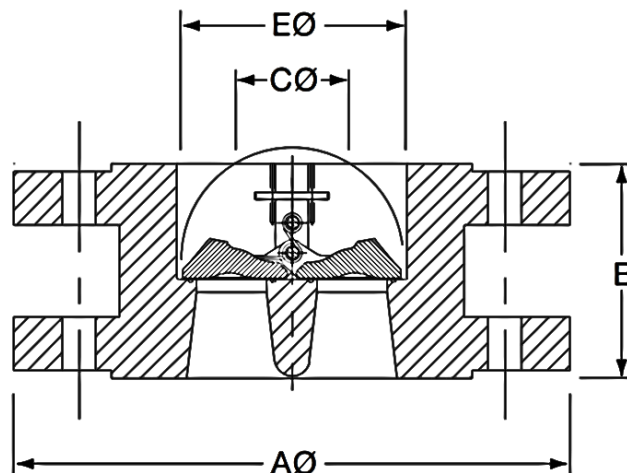


Fig. 1435 Class #150	Ø		8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"	54"	60"
	RF End to e.	B mm.	127	146	181	184	191	203	219	222	356	381	305	356	368	432	432	524	591	660
	Outside Diam.	A mm.	343	406	403	533	597	635	699	813	870	927	984	1060	1168	1289	1346	1511	1683	1854
	Dia. of Port	E mm.	207	260	300	339	387	438	487	579	629	680	735	784	865	987	1062	1193	1281	1422
	Approx Weight	Kg.	49	82	115	142	176	210	284	371	463	1025	747	1032	1318	1560	2149	2904	2790	6065

Fig. 1440 Class #300	Ø		8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"	54"	60"
	RF End to e.	B mm.	152*	178*	181	222	232	264	292	318	356	381	368	406	483	546	568	629	718	838
	Outside Diam.	A mm.	381*	445*	521	584	648	711	775	914	972	1035	1092	1149	1270	1238	1289	1467	1657	1810
	Dia. of Port	E mm.	207*	260*	339	387	438	487	579	629	680	735	784	865	987	909	1015	1136	1281	1422
	Approx Weight	Kg.	42	68	153	166	301	392	497	777	1238	1120	1206	1615	1957	3073	2876	3722	-	-

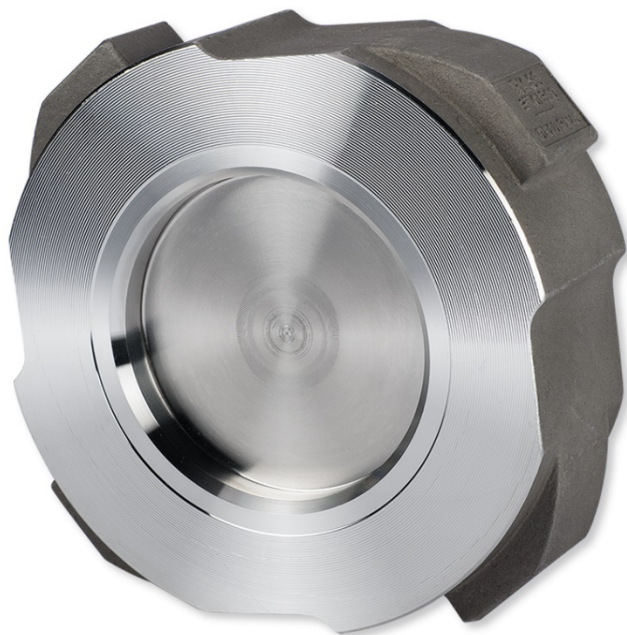
*Non API 594

Fig. 1445 Class #600	Ø		8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"	54"	60"
	RF/RTJ End to e.	B mm.	-	213	229	273	305	362	368	438	457	483	505	533	635	660	702	787	-	-
	Outside Diam.	A mm.	-	508	559	603	686	743	813	940	1016	1073	1130	1194	1314	1321	1403	1594	-	-
	Dia. of Port	E mm.	-	300	339	387	438	487	579	629	680	735	784	865	987	909	972	1136	-	-
	Approx Weight	Kg.	-	183	230	313	426	565	744	1166	1325	1477	1908	1977	2885	3152	3965	5450	-	-

All data are for reference only use and subject to changes without prior notice.

DISC CHECK VALVES

CAST AND BAR-STOCK

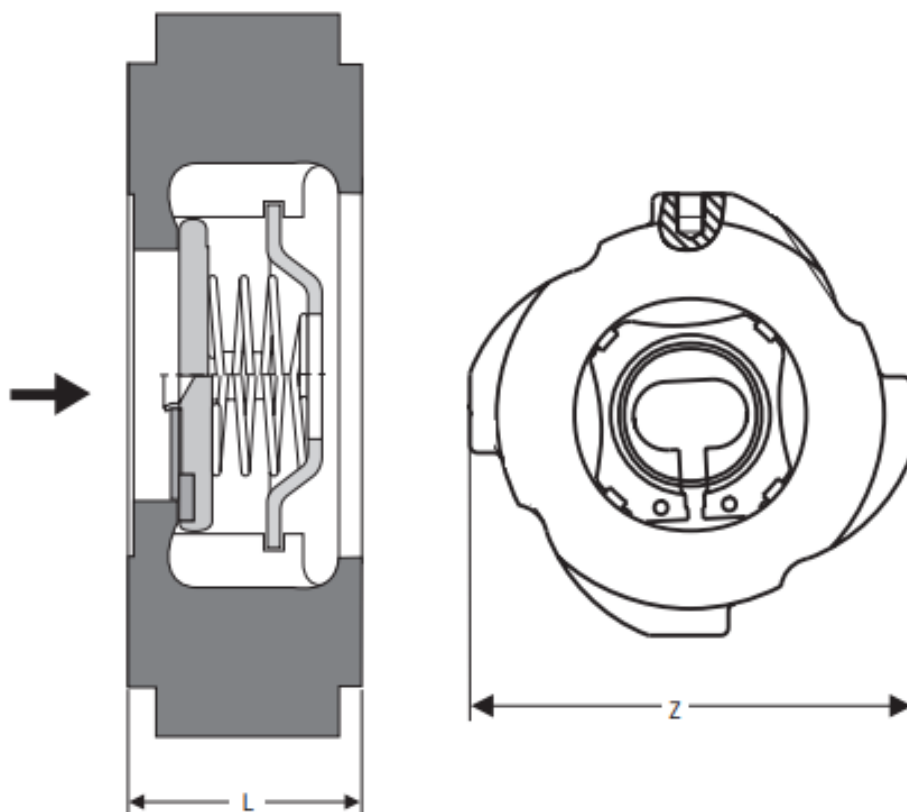


STANDARD FEATURES

- **Construction:** Retainerless
- **Design:** Standard Manufacturer
- **Body Style:** Wafer
- **Testing:** API 598
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

DISC CHECK VALVES - BODY / DISC			
Body		Disc	
Carbon Steel	A105 / A216 WCB	SS316	
L.T. Carbon Steel	A350 LF2/ A352 LCB		
Stainless Steel	A182 F316 / A351 CF8M		
Other materials available on request		Soft seats available on request	

All data are for reference only use and subject to changes without prior notice.



Disc check valve
Spring loaded

Wafer body

Soft or Metal seated

Flanges acc. to ASME B16.5
End to end manufacturer std.

Fig. 1450 #150/300	Size		½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"
	End to end	L mm.	16	19	22	28	31.5	40	46	50	60	90	106	140
	Ext. Dia.	Z mm.	67	76	82	93	104	118	136	158	186	216	251	308

NOTE: End to end dimensions are for reference only and according to manufacturer standard – ASME B16.10 not applicable

All data are for reference only use and subject to changes without prior notice.

SINGLE PLATE CHECK VALVES

CAST AND BAR-STOCK



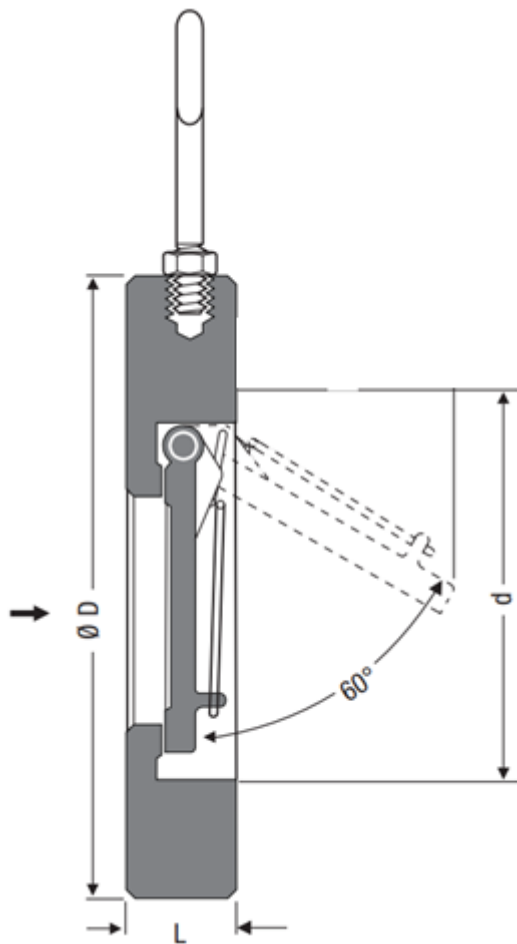
STANDARD FEATURES

- **Construction:** Retainerless
- **Design:** Standard Manufacturer
- **Body Style:** Wafer
- **Testing:** API 598
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

SINGLE PLATE CHECK VALVES - BODY / DISC

Body		Disc	
Carbon Steel	A105 / A216 WCB	Carbon Steel	A105
L.T. Carbon Steel	A350 LF2/ A352 LCB	Stainless Steel	SS316
Stainless Steel	A182 F316 / A351 CF8M	-	-
Other materials available on request		Soft seats available on request	

All data are for reference only use and subject to changes without prior notice.



Single plate check valve
Spring loaded (on request)

Wafer body

Soft or Metal seated

Flanges acc. to ASME B16.5
End to end manufacturer std.

End Connections DIN PN 6/10/16 / 25 / 40 -
ANSI 150 / 300

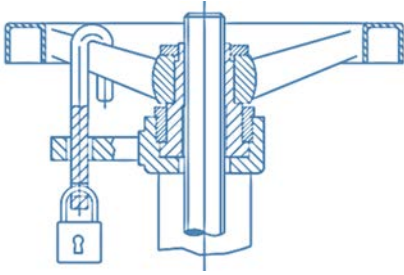
Fig. 1460 #150	Size		2"	2 1/4"	3"	4"	5"	6"	8"	10"	12"
	End to end	L mm.	17	20	24	27	32	32	42	47	52
	Ext. Dia.	D mm.	98	118	132	154	184	209	264	319	375
	Int. Dia.	D mm.	47	64	75	98	124	148	196	242	288

NOTE: End to end dimensions are for reference only and according to manufacturer standard – ASME B16.10 not applicable

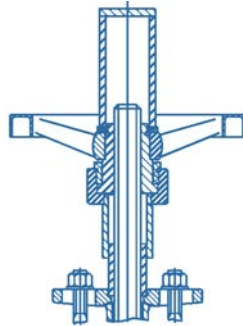
All data are for reference only use and subject to changes without prior notice.

SPECIAL EXECUTIONS

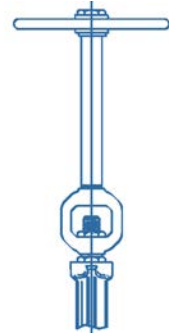
AVAILABLE UPON REQUEST



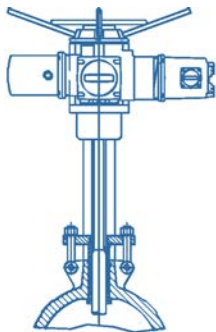
LOCKING DEVICE



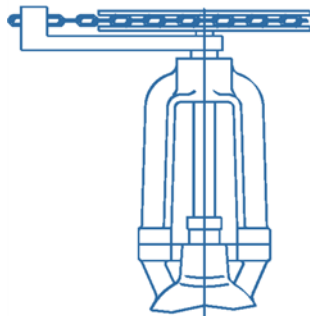
STEM PROTECTION



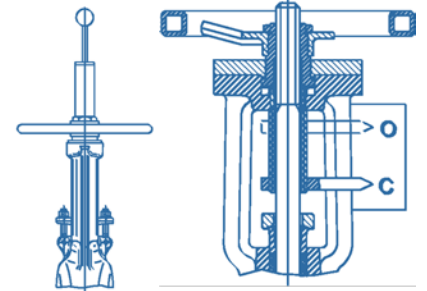
STEM EXTENSION



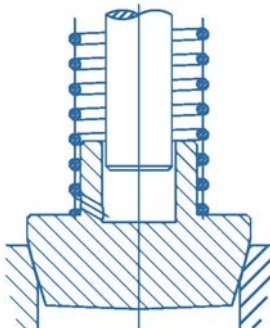
ELECTRIC ACTUATOR



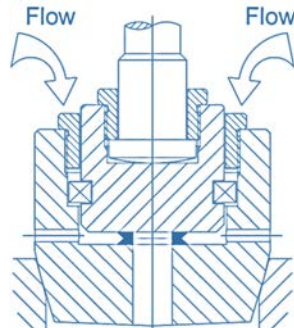
CHAIN WHEEL



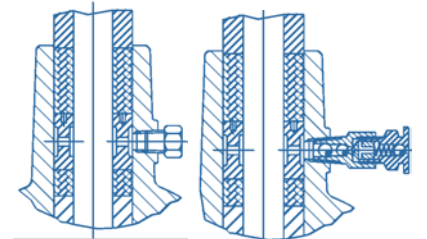
POSITION INDICATOR



STOP CHECK DISC



DOUBLE STAGE DISC



LANTERN RING

All data are for reference only use and subject to changes without prior notice.

MATERIAL SPECIFICATIONS								
Material Group	Common Name	UNS	Forging Spec.	Casting Spec. Equivalent	DIN	DIN	Material Group	
Carbon Steel	CS	K03504	A105N	A216-WCB	C22.8 DIN 17243	1.0460	General non-corrosive service from -20F(-29C) to 800F(427C)	
Low Temperature Carbon Steel	LTCS	K03011	A350-LF2	A352-LCA A352-LCB A352-LCC	TSTE 355 DIN 18103	1.0566	General non-corrosive service from -50F (-46C) to 650F(340C), LF2 to 800F(427C).	
Low Temperature Alloy Steel	Nickel Steel	K32025	A350-LF3	A352-LC3	10Ni14	1.5637	-150F(-101C) to 650F(340C)	
Low Alloy Steel	Moly Steel	K12822	A182-F1	A217-WC1	15MO3	1.5415	Up to 875F (468C)	
	Alloy Steel Chrome Moly	K11572	A182-F11 cl2	A217-WC6	13CRMO44	1.7335	Up to 1100F (593C)	
		K21590	A182-F22 cl3	A217-WC9	10CRMO910	1.7380	Up to 1100F(593C), HP steam	
		K41545	A182-F5	A217-C5	12CRMO195	1.7362	High temp refinery service	
		K90941	A182-F9	A217-C12	X 12 CrMo 9 1	1.7386	High temp erosive refinery service	
		A182-F91	A217-C12A	X 10 CrMoVNb 9 1	1.4903	High pressure steam		
		A182-F304	A351-CF8	DIN X5CrNi 18 9	1.4301	0.04% min. carbon for temp.>1000F(538C)		
Stainless Steel	Austenitic S.Steel 300 series S.Steel	S30403	A182-F304L	A351-CF3	X 2 CrNi 19 11	1.4306	Up to 800F(427C)	
		S30409	A182-F304H			n/a	n/a	
		S31600	A182-F316	A351-CF8M	DIN X5CrNiMo 18 10	1.4401	0.04% min. carbon for temp.>1000F(538C)	
		S31603	A182-F316L	A351-CF3M	X 5 CrNiMo 17 12 2	1.4404	Up to 800F(427C)	
		S31609	A182-F316H		n/a	n/a		
		S31635	A182-F316Ti		X 6 CrNiMoTi 17 12 2	1.4571		
		S32100	A182-F321		X 6 CrNiTi 18 10	1.4541	0.04% min. carbon (grade F321H) and heat treat at 2000F(1100C) for service temps.>1000F(538C)	
		S32109	A182-F321H		n/a	n/a		
		S34700	A182-F347	A351-CF8C	DIN 8556	1.4550	0.04% min. carbon (grade F347H) and heat treat at 2000F(1100C) for service temps.>1000F(538C)	
		S34709	A182-F347H		n/a	n/a		
		S31703	A182-F317L	A351-CG3M	X2CrNiMo18-16-4	1.4438		
		Alloy 20	N08020	A182-F20	A351-CN7M	DIN 1.4500	2.4660	service to 600F(316C)
		Duplex 2205	S31803 S32205	A182-F51	A890-J92205	X2CrNiMoN22-5-3 DIN 10088-1 (95)	1.4462	service to 600F(316C) -The original S31803 UNS design- nation has been supplemented by S32205 which has higher minimum N, Cr, and Mo.
	Super Duplex 2507	S32750	A182-F53	A351-CD4MCu A890 5A	X2CrNiMoN25-7-4 DIN 10088-1 (95)	1.4501	service to 600F(316C)	
	Super Duplex F55	S32760	A182 F55	CD3MWCuN			Service to 600F	
	Super Austenitic 6Mo	S31254	A182-F44	A351-CK3MCuN	X1CrNiMoCuN20-18-7 DIN 10088-1 (95)	1.4547	service to 600F(316C)	
	Nickel-Iron Alloy	Incoloy 800	N08800	B564-N08800		X10NiCrAlTi32-20	1.4876	service to 1000F(538C)
		Incoloy 825	N08825	B564-N08825	A494-CU5MCuC	DIN 17744	2.4858	service to 600F(316C) for N02200, 1200F(648C) for N02201
Nickel	Nickel	N02200	B160-N02200 (bar)	A494-CZ-100	NW2200	1.7740		
Nickel-Copper	Monel 400	N04400	B564-N04400	A494-M35-1	DIN 17730	2.4360		
	Monel 500	N05500	B564-N05500			2.4375		
Nickel-Alloy	904L	N08904	904L	n/a	Z2 NCDU 25-20	1.4539		
Nickel Superalloys	Inconel 600	N06600	B564-N06600	A494-CY40	DIN 17742	2.4816		
	Inconel 625	N06625	B564-N06625*	A494-CW-6MC		2.4856	*Difficult to forge in close dye	
	Hastelloy C-276	N10276	B564-N10276*	A494-CW-2M	NiMo 16 Cr 15 W	2.4819	*Difficult to forge in close dye	
Titanium	Titanium	R50400	B381-Gr2	B367-C2	Ti 2	3.7035		
TRIM DESCRIPTION								
API Trim No	Nonimal Trim	Descr.	Stem	Disc / Wedge	Seat			
1	F6	F6	410 (13Cr)	F6 (13Cr)	410 (13Cr)			
2	304	304	304 (18Cr-8Ni)	304 (18Cr-8Ni)	304 (18Cr-8Ni)			
3	-	-	(25Cr-20Ni)	310 (25Cr-20Ni)	310 (25Cr-20Ni)			
4	-	-	410 (13Cr)	F6 (13Cr)	F6 (13Cr)			
5	Hardfaced	F6HF	410 (13Cr)	F6+St.Gr6 (CoCr Alloy)	410+St.Gr6 (CoCrAlloy)			
6	-	-	410 (13Cr)	F6 (13CR)	Monel® (NiCu Alloy)			
7	-	-	410 (13Cr)	F6 (13Cr)	F6 (13Cr)			
8	F6 and Hardfaced	F6HFS	410 (13Cr)	F6 (13Cr)	410+St.Gr6 (CoCrAlloy)			
9	Monel	Monel	Monel® (NiCu Alloy)	Monel® (NiCu Alloy)	Monel® (NiCu Alloy)			
10	316	316	316 (18Cr-8Ni-Mo)	316 (18Cr-8Ni-Mo)	316 (18Cr-8Ni-Mo)			
11	Monel and Hardfaced	MonelHFS	Monel® (NiCu Alloy)	Monel® (NiCu Alloy)	Monel® St Gr6			
12	316 and Hardfaced	316HFS	316 (18Cr-8Ni-Mo)	316 (18Cr-8Ni-Mo)	316 + St. Gr6			
13	Alloy 20	Alloy 20	Alloy 20 (19Cr-29Ni)	Alloy 20 (19Cr-29Ni)	Alloy 20 (19Cr-29Ni)			
14	Alloy 20 and Hardfaced	Alloy 20HFS	Alloy 20 (19Cr-29Ni)	Alloy 20 (19Cr-29Ni)	Alloy 20 St Gr6			
15	Hardfaced (304)	304-HF	304 (18Cr-8Ni)	304 + St Gr6	304 + St Gr6			
16	Hardfaced (316)	316-HF	316 HF (18Cr -8Ni-Mo)	316 + St Gr6	316 + St Gr6			
17	Hardfaced (347)	347-HF	347 HF(18Cr-10Ni-Cb)	347 + St Gr6	347 + St Gr6			
18	Hardfaced Alloy 20 HF	Alloy 20 HF	Alloy 20 (19Cr-29Ni)	Alloy 20 + St Gr6	Alloy 20 + St Gr6			
n/a	Alloy 625	Alloy 625	Alloy 625	Alloy 625	Alloy 625			

All data are for reference only use and subject to changes without prior notice.

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