

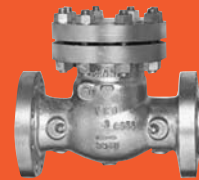


CRANE SUPPLY

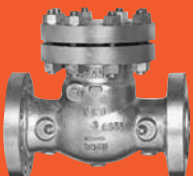
FORGED STEEL VALVES



BRONZE
IRON
BUTTERFLY
NOZ-CHEK
DUO-CHEK II
UNI-CHEK
FORGED STEEL
BALL
FLOWSEAL



VALVES
PIPE
FITTINGS
VALVES
PIPE VALVES FITTINGS
FITTINGS
PIPE
VALVES
FITTINGS
VALVES
PIPE



BUTTERFLY
ACTUATION BALL
CAST STEEL
ACTUATION
IRON
DUO-CHEK II
KNIFE GATE
FORGED STEEL BALL



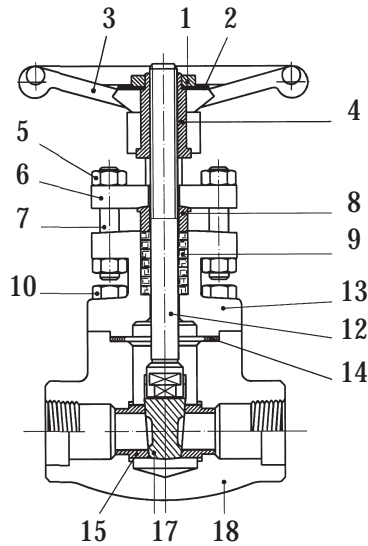
TABLE OF CONTENTS

Standard Valves	1
Standard Features	2
Flow Coefficient	3
GATE Valves	4
GLOBE Valves	7
CHECK Valves	10
Pressure Temperature Ratings	14
Flanges: DIN & ANSI	16
End Connections	17

Following a policy of continuous improvement, Crane Supply reserves the right to alter Specifications and Dimensions in this brochure without prior notice.

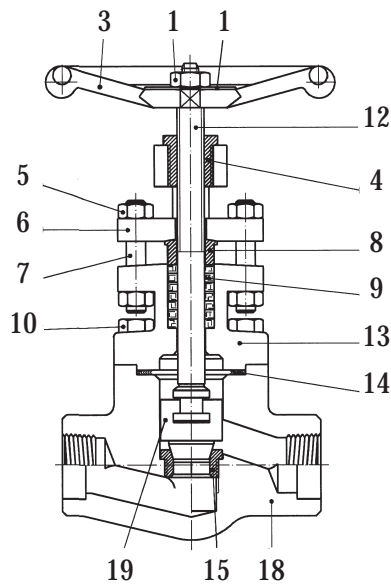
STANDARD VALVES

GATE VALVE



- 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

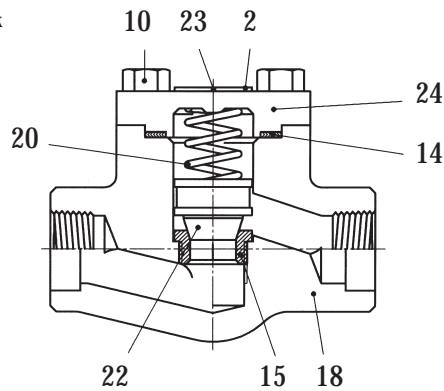
GLOBE VALVE



- 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
- 18 BODY
- 19 DISC

CHECK VALVE

Ball Check and Swing Check also available



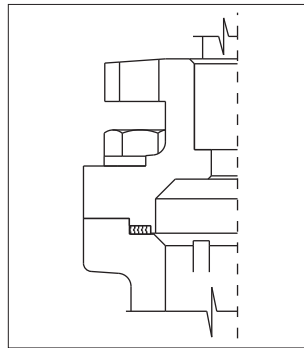
- 2 NAMEPLATE
- 10 BOLTS
- 14 GASKET
- 15 SEAT
- 18 BODY
- 20 SPRING
- 22 PISTON
- 23 RIVET
- 24 CAP

CONSTRUCTION

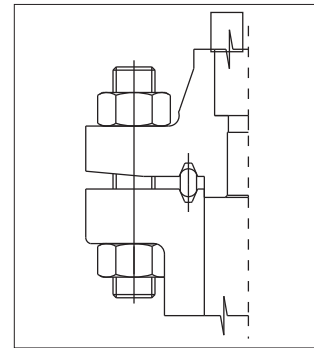
BODY-BONNET CONNECTIONS: BOLTED BONNET

Standard construction of body-bonnet connections are bolted. A spiral wound gasket seals the connection.

Ring Joint (RJ) connections are standard for class 2500 bolted bonnets. RJ is available on request for all other pressure classes.



Gasket Joint

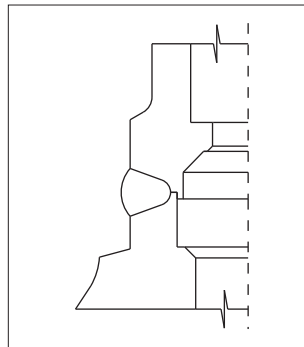


Ring Joint

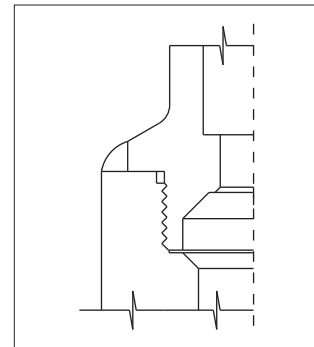
BODY-BONNET CONNECTIONS: WELDED BONNET

All welding procedures are performed by qualified operators (according to ASME IX).

Welded Bonnet Valves are supplied in the standard type threaded in and fillet welded bonnet as per "L" version. Full Penetration Welding (per "WP" version) can be supplied upon request.



Full Penetration Weld "WP"



Screwed and Seal Weld "L"

INTEGRAL FLANGED ENDS

All flanged valves are provided with flanged integral with the body forgings. We do not weld on flanges in any class or materials to guarantee the integrity, mechanical strength and material compatibility. Flanged (and butt weld) valves have dimensions in accordance with ASME B16.5 (ends) and ASME B16.10 (end-to-end). Valves to DIN and JIS standards as well as are made with integral flanged forgings.



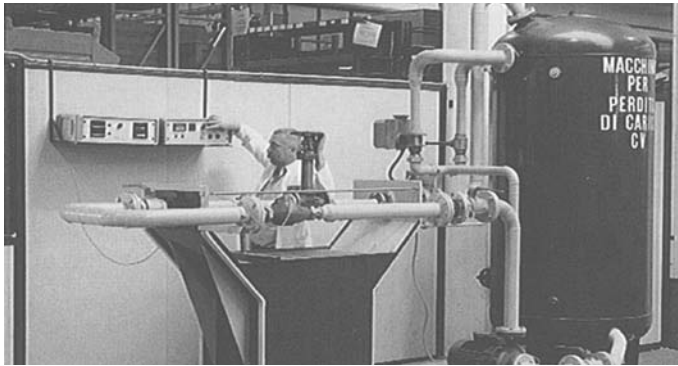
FLOW COEFFICIENT CHARTS

FLOW COEFFICIENT C_v

The Flow Coefficient is a valve property that is defined as follows: "The Flow Coefficient states the flow capacity of a valve in U.S. gallons per minute of water at a standard temperature of 60°F (15.6° C), that will flow through the valve with a pressure loss of one pound per square inch at a specific opening position". For the metric system, the analog value is Kv, where measure units are bar, kilogram and meters. The Cv describes the quality and accuracy of a valve in terms of pressure loss. A high Cv value indicates a high quality valve.

The values shown

VALVE SIZE in.	GATE		GLOBE			PISTON		
	Regular Port	Full Port	Regular Port	Full Port	Y-Pattern	Regular Port	Full Port	Y-Pattern
1/4	-	2.5	-	1.1	2.9	-	0.9	2.3
3/8	-	4.3	-	1.4	3.8	-	1.1	3.5
1/2	5.5	11.6	1.5	3.6	4.5	1.0	2.1	4.8
3/4	12.0	26.6	3.8	6.6	10.1	2.8	5.8	7.8
1	27.0	54.6	6.8	10.9	16.0	6.0	7.0	11.2
1 1/4	55.0	79.8	11.0	14.0	23.1	9.5	9.2	18.0
1 1/2	80.0	87.0	14.3	24.3	47.1	11.0	15.4	37.8
2	105.0	108.0	25.0	39.7	80.2	18.0	32.0	69.2



FLOW-RATE

$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

PRESSURE DROP

$$\Delta p = S \left(\frac{Q}{C_v}\right)^2$$

For liquids other than water

- Δp = Pressure drop, pounds per square inch (p.s.i.)
- Q = Liquid flow, gallons per minute (GPM)
- S = Specific gravity of liquid relative to water (60°F)
- C_v = Valve flow coefficient

CONVERSION TABLE TO METRIC STANDARD

Flow Coefficient	Cv	Kv
Cv	1	0.865
Kv	1.156	1

There is no standard for measuring Cv. We have used two methods:

- 1-Using Cv definition, through the means of a specifically built test rig, it has been obtained 1Bar of pressure loss and the flow has been verified with specific equipment. Calculation is possible to convert the measure to Cv.
- 2-In the same machine, the flow was changed to obtain a different measure of pressure: a table has been defined and an average value calculated for each valve type.

CHECK VALVES: CRACKING PRESSURE

Valve/ Figure Number	Piston Type		Y Pattern piston Type		Ball Type		Swing	Vertical Ball
	Non Spring Loaded	Spring Loaded	Non Spring Loaded	Spring Loaded	Non Spring Loaded	Spring Loaded	Non Spring Loaded	Spring Loaded
NPS	840	840 Spring	Y640	Y640 Spring	850	850 Spring	860	UV850
1/2" - 15	0.4 Bar	0.5 Bar	0.4 Bar	0.5 Bar	0.3 Bar	0.4 Bar	0.03 Bar	0.4 Bar
3/4" - 20	0.4 Bar	0.5 Bar	0.4 Bar	0.5 Bar	0.3 Bar	0.4 Bar	0.03 Bar	0.4 Bar
1" - 25	0.4 Bar	0.5 Bar	0.4 Bar	0.5 Bar	0.3 Bar	0.4 Bar	0.03 Bar	0.4 Bar
1 1/2" - 40	0.4 Bar	0.5 Bar	0.4 Bar	0.5 Bar	0.3 Bar	0.4 Bar	0.04 Bar	0.4 Bar
2" - 50	0.5 Bar	0.6 Bar	0.5 Bar	0.5 Bar	0.4 Bar	0.5 Bar	0.05 Bar	0.5 Bar
Type Scheme								

Disclaimer: All above data have been calculated based on a standard combination of materials and air. Data may vary with fluid type of higher or with spring/parts of special steel grades. Contact the Crane Supply team regarding your specific application.

FB - 3804

XU

W

BODY & BONNET STYLE	
B	Regular Port, Bolted Bonnet
W	Regular Port, Welded Bonnet
FB	Full Port, Bolted Bonnet
FW	Full Port, Welded Bonnet

SERIES & PRESSURE CLASS	
3604	Class 800
3804	Class 1500
3904	Class 2500
3510	Class 150 (Flanged only)
3514	Class 300 (Flanged only)
3604	Class 600 (Flanged only)

TRIM MATERIAL	
XU	13% Cr to Stellite
L	316 Stainless Steel
A	Monel
LN	Nace
XUN	13% Cr to Stellite (for Nace)
X	13% Cr to Hard 13% Cr
U	Stellite to Stellite
TF	TFE-Hastelloy for Chlorine

END CONNECTION	
F	Flanged
B	Butt Weld
W	Socket Weld
T	Threaded
R	Ring Type Joint
TxW	Thread x Socket Weld

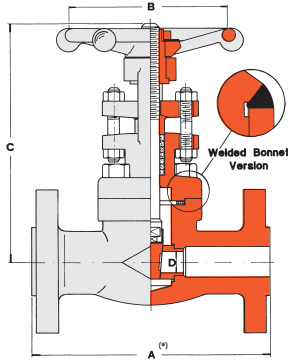
GATE VALVE: STANDARD SPECIFICATIONS

	A105/F6	A105/F6HFS	LF2/304	F11/F6HFS	F304/304	F316/316
Wheelnut	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Nameplate	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Handwheel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Yoke Nut	416	416	416	416	303	303
Gland Nut	2H	2H	GR8	GR8	GR8	GR8
Gland Flange	A105	A105	F6	F6	F304	F304
Gland Stud	410	410	B8	B8	B8	B8
Gland	316L	316L	316L	316L	316L	316L
Packing (*)	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
Bolts	B7	B7	L7	B16	B8	B8
Stem	410	410	304	410	304	316
Bonnet	A105	A105	LF2	F11	F304	F316
Gasket	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound
Seat	410	410HF	304	410HF	304	316
Wedge	F6	F6	F304	F6	F304	F316
Body	A105	A105	LF2	F11	F304	F316

(*) = low emission packing available on request
 SP = spiral

Other Materials and Classes are available upon request.

GATE VALVES



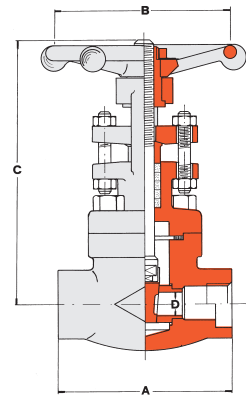
RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

CLASS 150-300-600

BOLTED BONNET - REGULAR PORT - ISO 15761
 Outside Screw & Yoke - Integral Flanged Ends according to ASME B16.5

REGULAR PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Class 150	A	-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	178	7.00
Class 300	A	-	-	-	-	140	5.51	152	6.02	165	6.49	-	-	190	7.51	216	8.50
Class 600	A	-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Handwheel	B	-	-	-	-	80	3.14	80	3.14	110	4.33	-	-	130	5.11	130	5.11
Center to Top Open	Class 150/300 C	-	-	-	-	170	6.69	195	7.67	203	7.99	-	-	243	9.56	262	10.3
Top Open	Class 600 C	-	-	-	-	148	5.82	163	6.41	178	7.00	-	-	243	9.56	262	10.3
Diameter of Port	D	-	-	-	-	9.6	0.38	14	0.55	18	0.70	-	-	30	1.18	37	1.45
Approx. Weight	Class 150	Kg	Lb	-	-	3.4	7.5	3.8	8.3	5.7	12.5	-	-	9.7	21.4	13.2	29.1
	Class 300	Kg	Lb	-	-	3.9	8.6	5	11.0	6.2	13.6	-	-	12	26.4	16.5	36.3
	Class 600	Kg	Lb	-	-	4	8.8	5.2	11.4	7.5	16.5	-	-	15	33.0	20.5	45.1

End to End dimensions according to ASME B16.10

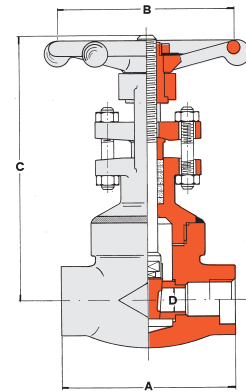


RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F

CLASS 800

BOLTED BONNET - REGULAR AND FULL PORT - ISO 15761
 Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
End to End	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	127	5.00	127	5.00	210	8.26	
Handwheel	B	80	3.14	80	3.14	80	3.14	110	4.33	110	4.33	130	5.11	130	5.11	180	7.08	
Center to Top Open	C	148	5.86	148	5.86	163	6.41	178	7.00	210	8.26	243	9.56	262	10.3	365	14.3	
Diameter of Port	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	48	1.89	
Approx. Weight	Kg	Lb	1.6	3.5	1.6	3.5	2.2	4.8	3.5	7.7	5	11	6.5	14.3	9	19.8	21.5	47.3

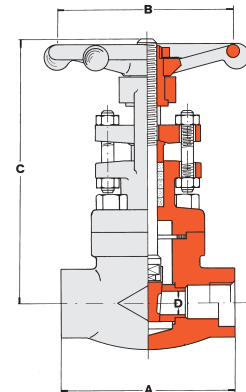


RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F

CLASS 800

WELDED BONNET - REGULAR AND FULL PORT - ISO 15761
 Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
End to End	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	127	5.00	127	5.00	210	8.26	
Handwheel	B	80	3.14	80	3.14	80	3.14	110	4.33	110	4.33	130	5.11	130	5.11	180	7.08	
Center to Top Open	C	148	5.86	148	5.86	163	6.41	178	7.00	210	8.26	243	9.56	262	10.3	365	14.3	
Diameter of Port	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	48	1.89	
Approx. Weight	Kg	Lb	1.6	3.5	1.6	3.5	2.2	4.8	3.5	7.7	5	11	6.3	13.8	8	17.6	17	37.4



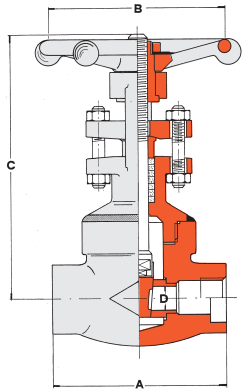
RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 1500

BOLTED BONNET - REGULAR AND FULL PORT - ISO 15761
 Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
End to End	A	90	3.54	90	3.54	110	4.33	127	5.00	127	5.00	127	5.00	210	8.26	210	8.26	
Handwheel	B	80	3.14	80	3.14	110	4.33	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08	
Center to Top Open	C	145	5.70	160	6.29	175	6.89	210	8.26	240	9.45	260	10.2	355	13.9	360	14.1	
Diameter of Port	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	40	1.57	
Approx. Weight	Kg	Lb	2.2	4.8	2.2	4.8	3.8	8.3	5.5	12.1	6.8	14.9	9.5	20.9	22.5	49.5	22	48.4

GATE VALVES

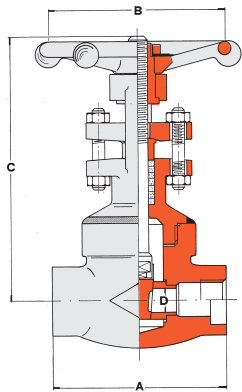


RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 1500

WELDED BONNET - REGULAR AND FULL PORT - ISO 15761
 Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT		-		1/2		3/4		1		1 1/4		1 1/2		2		-	
FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	90	3.54	90	3.54	110	4.33	127	5.00	127	5.00	127	5.00	210	8.26	210	8.26
Handwheel	B	80	3.14	80	3.14	110	4.33	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08
Center to Top Open	C	145	5.70	160	6.29	175	6.89	210	8.26	240	9.45	260	10.2	355	13.9	360	14.1
Diameter of Port	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	40	1.57
Approx. Weight	Kg	2.2	4.8	2.2	4.8	3.8	8.3	5.5	12.1	6.8	15	9	19.8	18.0	39.6	17.5	38.5
	Lb																



RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F

CLASS 2500

WELDED BONNET - FULL PORT - ASME B16.34
 Outside Screw & Yoke - Threaded and Socket Weld Ends

FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	127	5.00	127	5.00	127	5.00	-	-	235	9.25	235	9.25
Handwheel	B	-	-	-	-	130	5.11	130	5.11	130	5.11	-	-	300	11.8	300	11.8
Center to Top Open	C	-	-	-	-	214	8.42	239	9.40	253	9.96	-	-	425	16.7	430	16.9
Diameter of Port	D	-	-	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	37	1.45
Approx. Weight	Kg	-	-	-	-	5.8	12.7	7	15.4	10	22.0	-	-	26	57.3	25.5	56.2
	Lb	-	-	-	-							-	-				

FB - 3644

XU

- W

BODY & BONNET STYLE	
B	Regular Port, Bolted Bonnet
W	Regular Port, Welded Bonnet
FB	Full Port, Bolted Bonnet
FW	Full Port, Welded Bonnet

SERIES & PRESSURE CLASS	
3644	Class 800
3844	Class 1500
3944	Class 2500
3655	Class 150 (Flanged only)
3656	Class 300 (Flanged only)
3644	Class 600 (Flanged only)

TRIM MATERIAL	
XU	13% Cr to Stellite
L	316 Stainless Steel
A	Monel
LN	Nace
XUN	13% Cr to Stellite (for Nace)
X	13% Cr to Hard 13% Cr
U	Stellite to Stellite
TF	TFE-Hastelloy for Chlorine

END CONNECTION	
F	Flanged
B	Butt Weld
W	Socket Weld
T	Threaded
R	Ring Type Joint
TxW	Thread x Socket Weld

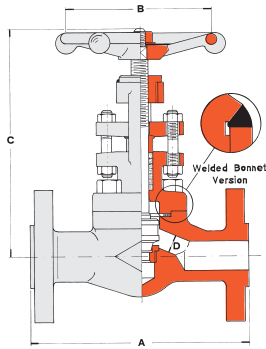
GLOBE VALVE: STANDARD SPECIFICATIONS

	A105/F6	A105/F6HFS	LF2/304	F11/F6HFS	F304/304	F316/316
Wheelnut	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Nameplate	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Handwheel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Yoke Nut	416	416	416	416	303	303
Gland Nut	2H	2H	GR8	GR8	GR8	GR8
Gland Flange	A105	A105	F6	F6	F304	F304
Gland Stud	410	410	B8	B8	B8	B8
Gland	316L	316L	316L	316L	316L	316L
Packing (*)	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
Bolts	B7	B7	L7	B16	B8	B8
Stem	410	410	304	410	304	316
Bonnet	A105	A105	LF2	F11	F304	F316
Gasket	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound
Seat	410	410HF	304	410HF	304	316
Disc	410	410	304	410	304	316
Body	A105	A105	LF2	F11	F304	F316

(*) = low emission packing available on request
 SP = spiral

Other Materials and Classes are available upon request.

GLOBE VALVES



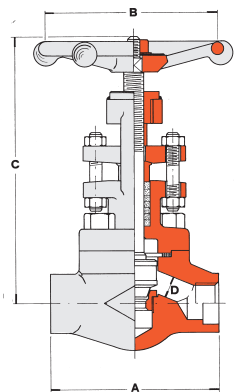
RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

CLASS 150-300-600 BOLTED BONNET - REGULAR PORT - ISO 15761

Outside Screw & Yoke - Integral Flanged Ends according to ASME B16.5

REGULAR PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2			
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.		
Class 150	A	-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99		
Class 300	A	-	-	-	-	152	6.02	178	7.00	203	7.99	-	-	229	9.01	267	10.5		
Class 600	A	-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5		
Handwheel	B	-	-	-	-	80	3.14	80	3.14	110	4.33	-	-	130	5.11	180	7.08		
Center to	Class 300-600	C		-	-	-	-	148	5.82	165	6.49	180	7.08	-	-	248	9.76	257	10.1
Top Open		Class 150		-	-	-	-	170	6.69	197	7.75	205	8.07	-	-	248	9.76	257	10.1
Diameter of Port	D	-	-	-	-	9	0.35	13	0.51	17.5	0.69	-	-	29.5	1.16	35	1.37		
Approx. Weight	Class 150	Kg	Lb	-	-	-	-	3.4	7.5	4	8.8	5.7	12.5	-	-	10	22.0	17.0	37.4
	Class 300	Kg	Lb	-	-	-	-	4	8.8	5	11.0	7.3	16.1	-	-	14	30.8	20.5	45.1
	Class 600	Kg	Lb	-	-	-	-	4.5	9.9	5.5	12.1	7.6	16.7	-	-	15	33.0	21	46.2

End to End dimensions according to ASME B16.10

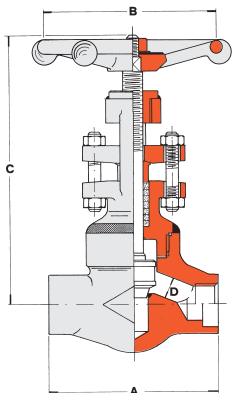


RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F

CLASS 800 BOLTED BONNET - REGULAR AND FULL PORT - ISO 15761

Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
End to End	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	
Handwheel	B	80	3.14	80	3.14	80	3.14	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08	
Center to Top Open	C	148	5.82	148	5.82	165	6.49	180	7.08	213	8.38	248	9.76	257	10.1	370	14.5	
Diameter of Port	D	7	0.28	9	0.35	13	0.51	17.5	0.69	22.5	0.89	29.5	1.16	35	1.37	45.5	1.79	
Approx. Weight	Kg	Lb	1.7	3.7	1.7	3.7	2.3	5.0	3.6	7.9	5.5	12.1	7.5	16.5	11.6	25.5	22.0	48.5

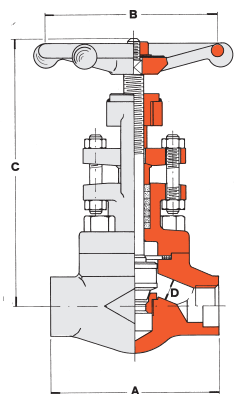


RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F

CLASS 800 WELDED BONNET - REGULAR AND FULL PORT - ISO 15761

Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
End to End	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	
Handwheel	B	80	3.14	80	3.14	80	3.14	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08	
Center to Top Open	C	148	5.82	148	5.82	165	6.49	180	7.08	213	8.38	248	9.76	257	10.1	370	14.5	
Diameter of Port	D	7	0.28	9	0.35	13	0.51	17.5	0.69	22.5	0.89	29.5	1.16	35	1.37	45.5	1.79	
Approx. Weight	Kg	Lb	1.7	3.7	1.7	3.7	2.3	5.0	3.6	7.9	5.5	12.1	7.3	16	10.5	23.1	17.5	38.5



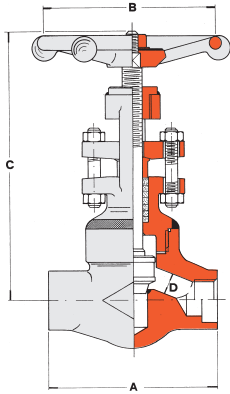
RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 1500 BOLTED BONNET - REGULAR AND FULL PORT - ISO 15761

Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
End to End	A	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210	8.26	
Handwheel	B	80	3.14	80	3.14	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08	180	7.08	
Center to Top Open	C	160	6.29	160	6.29	175	6.88	210	8.26	244	9.60	250	9.84	370	14.5	375	14.7	
Diameter of Port	D	7	0.28	9	0.35	13	0.51	17	0.67	21	0.83	28	1.10	33	1.30	37.5	1.48	
Approx. Weight	Kg	Lb	2.2	4.8	2.2	4.8	3.9	8.5	6	13.2	8	17.6	12	26.4	23.5	51.7	23	50.6

GLOBE VALVES

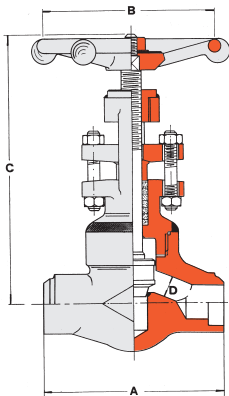


RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 1500 WELDED BONNET - REGULAR AND FULL PORT - ISO 15761

Outside Screw & Yoke - Threaded and Socket Weld Ends

REGULAR PORT			-		1/2		3/4		1		1 1/4		1 1/2		2		-	
FULL PORT			1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A		90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210	8.26
Handwheel	B		80	3.14	80	3.14	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08	180	7.08
Center to Top Open	C		160	6.29	160	6.29	175	6.88	210	8.26	244	9.60	250	9.84	370	14.5	375	14.7
Diameter of Port	D		7	0.28	9	0.35	13	0.51	17	0.67	21	0.83	28	1.10	33	1.30	37.5	1.48
Approx. Weight	Kg	Lb	2.2	4.8	2.2	4.8	3.9	8.5	6	13.2	8	17.6	12	26.4	19	41.8	18.5	40.7



RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F

CLASS 2500 WELDED BONNET - FULL PORT - ASME B16.34

Outside Screw & Yoke - Socket and Butt Weld Ends

FULL PORT			1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A		-	-	-	-	127	5.00	155	6.10	170	6.69	-	-	235	9.25	235	9.25
Handwheel	B		-	-	-	-	130	5.11	130	5.11	130	5.11	-	-	300	11.8	300	11.8
Center to Top Open	C		-	-	-	-	237	9.33	242	9.52	256	10.1	-	-	430	16.9	435	17.1
Diameter of Port	D		-	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	35	1.37
Approx. Weight	Kg	Lb	-	-	-	-	6.5	14.3	8.5	18.7	12.5	27.5	-	-	26	57.2	25.5	56.1

F B - 3 6 7 4 X U - W

BODY & BONNET STYLE	
B	Regular Port, Bolted Bonnet
W	Regular Port, Welded Bonnet
FB	Full Port, Bolted Bonnet
FW	Full Port, Welded Bonnet

SERIES & PRESSURE CLASS	
367	Class 800
387	Class 1500
397	Class 2500
366	Class 150 Flanged
368	Class 300 Flanged
367	Class 600 Flanged

VALVE TYPE	
3	Ball
4	Lift
5	Swing

TRIM MATERIAL	
XU	13% Cr to Stellite
L	316 Stainless Steel
A	Monel
LN	Nace
XUN	13% Cr to Stellite (for Nace)
X	13% Cr to Hard 13% Cr
U	Stellite to Stellite
TF	TFE-Hastelloy for Chlorine

END CONNECTION	
W	Socket Weld
T	Threaded
F	Flanged

Other end connections are available.

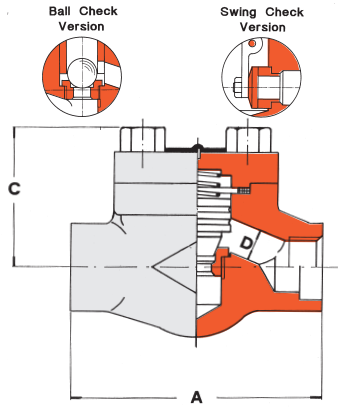
CHECK VALVE: STANDARD SPECIFICATIONS

	A105/F6	A105/F6HFS	LF2/304	F11/F6HFS	F304/304	F316/316
Nameplate	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Bolts	B7	B7	L7	B16	B8	B8
Gasket	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound	Sp. Wound
Seat	410	410HF	304	410HF	304	316
Body	A105	A105	LF2	F11	F304	F316
Spring	Arm. Steel	Arm. Steel	Arm. Steel	Arm. Steel	Arm. Steel	Arm. Steel
Piston	410	410	304	410	304	316
Rivet	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Cap	A105	A105	LF2	F11	F304	F316

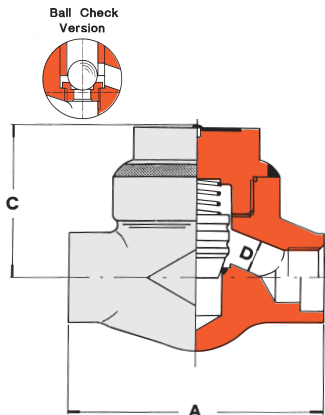
(*) = low emission packing available on request
 SP = spiral

Other Materials and Classes are available upon request.
 Other valve material and trims are available on request.

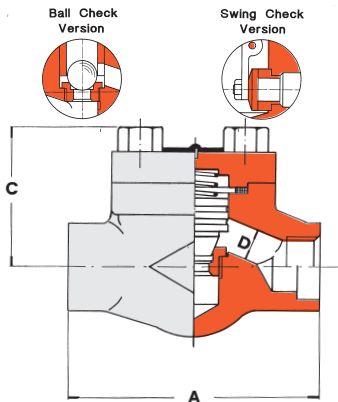
CHECK VALVES



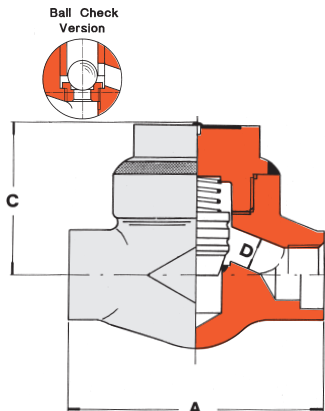
RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F



RATINGS: Carbon Steel - 1975 p.s.i. @ 100°F



RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F



RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F

CLASS 800

PISTON, BALL AND SWING TYPE - REGULAR AND FULL PORT - ISO 15761
Bolted Cover - Threaded and Socket Weld Ends

REGULAR PORT		PISTON BALL SWING		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		PISTON BALL SWING		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
End to End	PISTON-BALL	A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
		SWING	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210
Center to Top		C	53	2.08	53	2.08	60	2.36	73	2.87	80	3.14	98	3.85	118	4.64	150	5.90	150	5.90
Diameter of Port	PISTON-BALL	D	7	0.28	9	0.35	13	0.51	17.5	0.69	22.5	0.88	29.5	1.16	35	1.38	45.5	1.79	45.5	1.79
	SWING	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	48	1.89	48	1.89
Approx. Weight	PISTON-BALL	Kg Lb	1.3	2.8	1.3	2.8	1.4	3.0	2.4	5.2	4.0	8.8	7.4	16.2	8	17.6	18	39.6	18	39.6
	SWING	Kg Lb	1.3	2.8	1.3	2.8	1.4	3.0	2.4	5.2	4.0	8.8	5.5	12.1	6.5	14.3	17.5	38.5	17.5	38.5

CLASS 800

PISTON AND BALL TYPE - REGULAR AND FULL PORT - ISO 15761
Welded Cover - Threaded and Socket Weld Ends

REGULAR PORT		PISTON BALL		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		PISTON BALL		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
End to End	A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
		A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210	8.26
Center to Top		C	53	2.08	53	2.08	60	2.36	73	2.87	80	3.14	98	3.85	110	4.33	150	5.90	150	5.90
Diameter of Port		D	7	0.28	9	0.35	13	0.51	17.5	0.69	22.5	0.88	29.5	1.16	35	1.37	45.5	1.79	45.5	1.79
Approx. Weight	Kg	Lb	1.3	2.8	1.3	2.8	1.4	3.0	2.4	5.2	4.0	8.8	7.4	16.3	8	17.6	17	37.4	17	37.4
	Lb	Kg	1.3	2.8	1.3	2.8	1.4	3.0	2.4	5.2	4.0	8.8	7.4	16.3	8	17.6	17	37.4	17	37.4

CLASS 1500

PISTON, BALL AND SWING TYPE - REGULAR AND FULL PORT - ISO 15761
Bolted Cover - Threaded and Socket Weld Ends

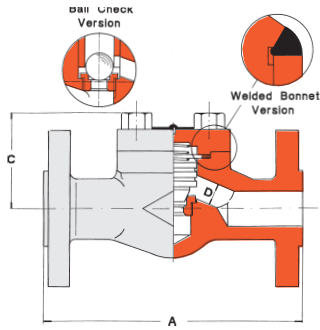
REGULAR PORT		PISTON BALL SWING		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		PISTON BALL SWING		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
End to End	PISTON-BALL	A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
		SWING	A	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210	8.26	210
Center to Top		C	60	2.36	60	2.36	73	2.87	80	3.14	98	3.85	118	4.64	150	5.90	150	5.90	150	5.90
Diameter of Port	PISTON-BALL	D	7	0.28	9	0.35	13	0.51	17.5	0.69	21	0.83	28	1.10	33	1.30	37.5	1.48	37.5	1.48
	SWING	D	8	0.31	9.6	0.38	14	0.55	18	0.70	24	0.94	30	1.18	37	1.45	40	1.57	40	1.57
Approx. Weight	PISTON-BALL	Kg Lb	1.5	3.3	1.5	3.3	2.8	6.1	4.6	10.1	7.4	16.2	9	19.8	19.5	49.9	19	41.8	19	41.8
	SWING	Kg Lb	1.6	3.5	1.5	3.3	2.4	5.2	4	8.8	6	13.2	9.5	20.9	19	41.8	18.5	40.7	18.5	40.7

CLASS 1500

PISTON AND BALL TYPE - REGULAR AND FULL PORT - ISO 15761
Welded Cover - Threaded and Socket Weld Ends

REGULAR PORT		PISTON BALL		-		1/2		3/4		1		1 1/4		1 1/2		2		-		
FULL PORT		PISTON BALL		1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
End to End	A	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
		A	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26	210	8.26	210	8.26
Center to Top		C	60	2.36	60	2.36	73	2.87	80	3.14	98	3.85	110	4.33	150	5.90	150	5.90	150	5.90
Diameter of Port		D	7	0.28	9	0.35	13	0.51	17	0.67	21	0.83	28	1.10	33	1.30	37.5	1.47	37.5	1.47
Approx. Weight	Kg	Lb	1.5	3.3	1.5	3.3	2.8	6.1	4.6	10.1	7.4	16.3	9	19.8	15	33.0	14.5	31.9	14.5	31.9
	Lb	Kg	1.5	3.3	1.5	3.3	2.8	6.1	4.6	10.1	7.4	16.3	9	19.8	15	33.0	14.5	31.9	14.5	31.9

CHECK VALVES



RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

CLASS 150-300-600

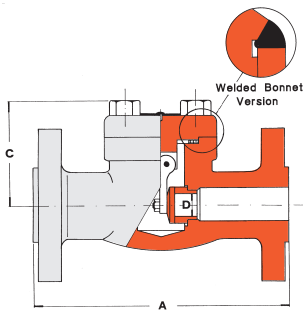
PISTON AND BALL TYPE - REGULAR PORT - ISO 15761
 Bolted Cover - Integral Flanged Ends according to ASME B16.5

REGULAR PORT				1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
Class 150	PISTON BALL	A		-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99	
Class 300	PISTON BALL	A		-	-	-	-	152	6.02	178	7.00	203	7.99	-	-	229	9.01	267	10.5	
Class 600	PISTON BALL	A		-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5	
Center to Top Open	Class 150	C		-	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33	
	Class 300-600	C		-	-	-	-	53	2.08	60	2.36	73	2.87	-	-	98	3.85	110	4.33	
Diameter of Port			D		-	-	-	-	9	0.35	13	0.51	17.5	0.69	-	-	29.5	1.16	35	1.37
Approx. Weight	Class 150	Kg	Lb		-	-	-	-	2.9	6.4	3.2	7.0	4.3	9.5	-	-	6.5	14.3	14.5	31.9
	Class 300	Kg	Lb		-	-	-	-	3.6	7.9	4.2	9.2	6	13.2	-	-	12	26.4	16	35.2
	Class 600	Kg	Lb		-	-	-	-	4.1	9.0	4.7	10.4	6.3	13.8	-	-	13	28.6	17	37.4

End to End dimensions according to ASME B16.10

CLASS 150-300-600

SWING TYPE - REGULAR PORT - ISO 15761
 Round Bolted Cover - Integral Flanged Ends according to ASME B16.5



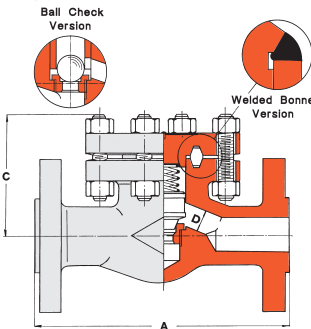
RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

FULL PORT				1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
Class 150		A		-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99	
Class 300		A		-	-	-	-	152	6.02	178	7.00	216	8.50	-	-	241	9.48	267	10.5	
Class 600		A		-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5	
Center to Top Open	Class 150	C		-	-	-	-	75	2.95	92	3.62	98	3.85	-	-	98	3.85	110	4.33	
	Class 300-600	C		-	-	-	-	53	2.08	60	2.36	73	2.87	-	-	98	3.85	110	4.33	
Diameter of Port			D		-	-	-	-	9.6	0.38	14	0.55	18	0.70	-	-	30	1.18	37	1.45
Approx. Weight	Class 150	Kg	Lb		-	-	-	-	2.9	6.4	3.2	7.0	4.3	9.5	-	-	6.5	14.3	14.5	31.9
	Class 300	Kg	Lb		-	-	-	-	3.6	7.9	4.2	9.2	6.1	13.4	-	-	13	28.6	16	35.2
	Class 600	Kg	Lb		-	-	-	-	4.1	9.0	4.7	10.4	6.3	13.8	-	-	13	28.6	17	37.4

End to End dimensions according to ASME B16.10

CLASS 150-300-600

PISTON AND BALL TYPE - REGULAR PORT - ISO 15761
 Bolted Cover - Integral Flanged Ends according to ASME B16.5



RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

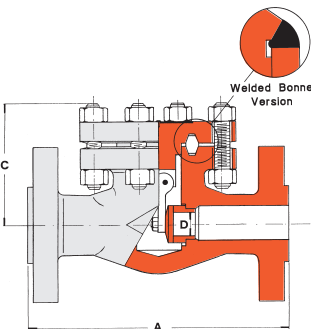
REGULAR PORT				1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
Class 150	PISTON BALL	A		-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99	
Class 300	PISTON BALL	A		-	-	-	-	152	6.02	178	7.00	203	7.99	-	-	229	9.01	267	10.5	
Class 600	PISTON BALL	A		-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5	
Center to Top Open	Class 150	C		-	-	-	-	75	2.95	100	3.93	110	4.33	-	-	120	4.72	147	5.78	
	Class 300-600	C		-	-	-	-	115	4.52	130	5.11	140	5.51	-	-	170	6.69	195	7.67	
Diameter of Port			D		-	-	-	-	13	0.51	17.5	0.69	22.5	0.89	-	-	35	1.37	45.5	1.79
Approx. Weight	Class 150	Kg	Lb		-	-	-	-	3.2	7.0	3.5	7.7	4.6	10.1	-	-	7.0	15.4	16	35.2
	Class 300	Kg	Lb		-	-	-	-	4.6	10.1	6.1	13.4	9.1	20.0	-	-	16	35.2	21	46.2
	Class 600	Kg	Lb		-	-	-	-	4.8	10.5	6.3	13.8	9.3	20.5	-	-	16.5	36.3	22	48.4

End to End dimensions according to ASME B16.10
 Spiral wound gasket joint and for #150

Ring-Joint gasket according to ASME B16.20 - API 6A

CLASS 150-300-600

SWING TYPE - REGULAR PORT - ISO 15761
 Bolted Cover - Integral Flanged Ends according to ASME B16.5



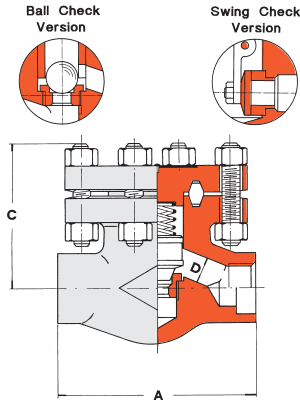
RATINGS: Carbon Steel
 Class 150 - 285 p.s.i. @ 100°F
 Class 300 - 740 p.s.i. @ 100°F
 Class 600 - 1480 p.s.i. @ 100°F

REGULAR PORT				1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
Class 150		A		-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	203	7.99	
Class 300		A		-	-	-	-	152	6.02	178	7.00	216	8.50	-	-	241	9.48	267	10.5	
Class 600		A		-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5	
Center to Top Open	Class 150	C		-	-	-	-	75	2.95	100	3.93	110	4.33	-	-	120	4.72	147	5.78	
	Class 300-600	C		-	-	-	-	115	4.52	130	5.11	140	5.51	-	-	170	6.69	195	7.67	
Diameter of Port			D		-	-	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	48	1.89
Approx. Weight	Class 150	Kg	Lb		-	-	-	-	3.1	6.8	3.4	7.5	4.5	9.9	-	-	6.8	14.9	15.7	34.5
	Class 300	Kg	Lb		-	-	-	-	4.6	10.1	6.1	13.4	9.3	20.5	-	-	16.5	36.3	21	46.2
	Class 600	Kg	Lb		-	-	-	-	4.8	10.5	6.3	13.8	9.3	20.5	-	-	16.5	36.3	22	48.4

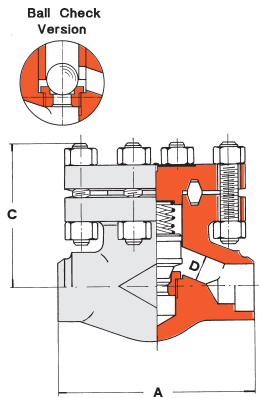
End to End dimensions according to ASME B16.10
 Spiral wound gasket joint for #150

Ring-Joint gasket according to ASME B16.20 - API 6A

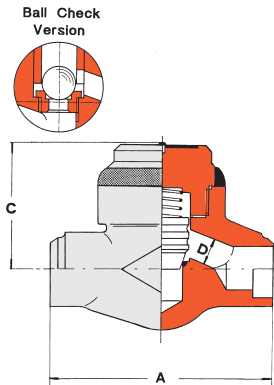
CHECK VALVES



RATINGS: Carbon Steel - 3705 p.s.i. @ 100°F



RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F



RATINGS: Carbon Steel - 6170 p.s.i. @ 100°F

CLASS 1500 PISTON, BALL AND SWING TYPE - FULL PORT - ISO 15761

Round Bolted Cover - Threaded and Socket Weld Ends

FULL PORT	PISTON BALL SWING	1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	110	4.33	150	5.90	150	5.90	-	-	210	8.26	235	9.25
Center to Top	C	-	-	-	-	100	3.93	130	5.11	145	5.70	-	-	160	6.29	195	7.67
Diameter of Port	PISTON-BALL	D	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	37.5	1.48
	SWING	D	-	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	48	1.89
Approx. Weight	PISTON-BALL	Kg	Lb	-	-	4	8.8	7.5	16.5	9	19.8	-	-	18.5	40.7	30	66
	SWING	Kg	Lb	-	-	3.8	8.37	7	15.4	8.5	18.7	-	-	17.5	38.5	29	63.8

Spiral wound gasket joint available on request

Ring-Joint gasket according to ASME B16.20 - API 6A

CLASS 2500 PISTON AND BALL TYPE - FULL PORT - ASME B16.34

Round Bolted Cover - Socket and Butt Weld Ends

FULL PORT	PISTON BALL	1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	150	5.90	150	5.90	210	8.26	-	-	235	9.25	235	9.25
Center to Top	C	-	-	-	-	130	5.11	130	5.11	160	6.29	-	-	195	7.67	195	7.67
Diameter of Port	D	-	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	35	1.37
Approx. Weight	Kg	Lb	-	-	-	7	15.4	6.8	14.9	17.5	38.5	-	-	29	63.8	29	63.8

Ring-Joint gasket according to ASME B16.20 - API 6A

CLASS 2500 PISTON AND BALL TYPE - FULL PORT - ASME B16.34

Welded Cover - Socket and Butt Weld Ends

FULL PORT	PISTON BALL	1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
End to End	A	-	-	-	-	127	5.00	155	6.10	170	6.69	-	-	235	9.25	235	9.25
Center to Top	C	-	-	-	-	80	3.14	98	3.85	110	4.33	-	-	170	6.69	170	6.69
Diameter of Port	D	-	-	-	-	13	0.51	17	0.67	21	0.83	-	-	33	1.30	35	1.37
Approx. Weight	Kg	Lb	-	-	-	5	11.0	8	17.6	10	22.0	-	-	21.5	47.3	21.3	46.9

PRESSURE - TEMPERATURE RATINGS

According to API 602, 7th edition

CLASS 800																			
SERVICE TEMPER.	A105 ⁽¹⁾ A350-LF2 ⁽²⁾	A182 ⁽³⁾ F11	A182 ⁽³⁾ F22	A182 F5	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F347H	SERVICE TEMPER.	A105 ⁽¹⁾ A350-LF2 ⁽²⁾	A182 ⁽³⁾ F11	A182 ⁽³⁾ F22	A182 F5	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F347H
°F	psi	psi	psi	psi	psi	psi	psi	psi	psi	°C	bar	bar	bar	bar	bar	bar	bar	bar	bar
-20 to 100	1975	2000	2000	2000	2000	1920	1920	1600	1920	-29 to 38	136.2	137.9	137.9	137.9	137.9	132.4	132.4	110.3	132.4
200	1800	1900	1910	2000	2000	1600	1655	1350	1695	93.5	124.1	131.0	131.7	137.9	137.9	110.3	114.1	93.1	116.9
300	1750	1795	1805	1940	1940	1410	1495	1210	1570	149	120.7	123.8	124.5	133.8	133.8	97.2	103.1	83.4	108.3
400	1690	1755	1730	1880	1880	1255	1370	1100	1480	204.5	116.6	121.0	119.3	129.7	129.7	86.5	94.5	75.9	102.1
500	1595	1710	1705	1775	1775	1165	1275	1020	1380	260	110.0	117.9	117.6	122.4	122.4	80.3	87.9	70.3	95.2
600	1460	1615	1615	1615	1615	1105	1205	960	1310	315.5	100.7	113.4	113.4	113.4	113.4	76.2	83.1	66.2	90.3
650	1430	1570	1570	1570	1570	1090	1185	935	1280	343.5	98.6	108.3	108.3	108.3	108.3	75.2	81.7	64.5	88.3
700	1420	1515	1515	1515	1515	1075	1150	915	1250	371	97.9	104.5	104.5	104.5	104.5	74.1	79.3	63.1	86.2
750	1345	1420	1420	1420	1420	1060	1130	895	1230	399	92.7	97.9	97.9	97.9	97.9	73.1	77.9	61.7	84.8
800	1100	1355	1355	1325	1355	1050	1105	875	1215	426.5	75.9	93.4	93.4	91.4	93.4	72.4	76.2	60.3	83.8
850	715	1300	1300	1170	1300	1035	1080	860	1185	454.5	49.3	89.7	89.7	80.7	89.7	71.4	74.5	59.3	81.7
900	460	1200	1200	940	1200	1025	1050		1150	482	31.7	82.8	82.8	64.8	82.8	70.7	72.4		79.3
950	275	1005	1005	695	985	1000	1030		1030	510	19	69.3	69.3	47.9	67.9	69.0	71.0		71.0
1000	140	595	715	510	780	860	970		970	538	9.7	41.0	49.3	35.2	53.8	59.3	66.9		66.9
1050		365	530	375	505	825	960		960	565.5		25.2	36.6	25.9	34.8	56.9	66.2		66.2
1100		255	300	275	300	685	860		860	593.5		17.6	20.7	19.0	20.7	47.2	59.3		59.3
1150		140	275	185	200	520	735		735	621		9.7	19.0	12.8	13.8	35.9	50.7		50.7
1200		95	145	120	140	415	550		460	649		6.6	10.0	8.3	9.6	28.6	37.9		31.7
1250						295	485		330	676.5						20.3	33.4		22.8
1300						218	365		250	704.5						15.0	25.2		17.2
1350						165	275		180	732.5						11.4	19.0		12.4
1400						130	200		140	760.5						9.0	13.8		9.6
1450						95	155		110	788.5						6.6	10.7		7.6
1500						65	110		95	815.5						4.5	7.6		6.6

Notes: (1) Permissible, but not recommended for prolonged use above 800°F.
 (2) Not to be used over 650°F.
 (3) Permissible, but not recommended for prolonged use above 1050°F.

According to ASME B16.34

CARBON STEEL A105 ⁽¹⁾ & A350 LF2 ⁽²⁾											
SERVICE TEMPERATURE	150	300	600	1500	2500	SERVICE TEMPERATURE	PN 20	PN 50	PN 100	PN 250	PN 420
°F	psi	psi	psi	psi	psi	°C	bar	bar	bar	bar	bar
-20 to 100	285	740	1480	3705	6170	38	19.6	51.1	102.1	255.3	425.5
200	260	675	1350	3375	5625	50	19.2	50.1	100.2	250.4	417.3
300	230	655	1315	3280	5470	100	17.7	46.4	92.8	231.9	386.5
400	200	635	1270	3170	5280	150	15.8	45.2	90.5	226.1	376.9
500	170	600	1200	2995	4990	200	14.0	43.8	87.6	219.1	365.2
600	140	550	1095	2735	4560	250	12.1	41.7	83.4	208.6	347.7
650	125	535	1075	2685	4475	300	10.2	38.7	77.5	193.7	322.8
700	110	535	1065	2665	4440	350	8.4	37.0	73.9	184.8	308.0
750	95	505	1010	2520	4200	375	7.4	36.5	72.9	182.3	303.9
800	80	410	825	2060	3430	400	6.5	34.5	69.0	172.5	287.5
850	65	270	535	1340	2230	425	5.6	28.8	57.5	143.8	239.6
900	50	170	345	860	1430	450	4.7	20.0	40.1	100.2	166.9
950	35	105	205	515	860	475	3.7	13.5	27.1	67.7	112.9
1000	20	50	105	260	430	500	2.8	8.8	17.6	44.0	73.3
1050						525	1.9	5.2	10.4	25.9	43.2
1100						540	1.3	3.3	6.5	16.3	27.2

Notes: (1) Permissible, but not recommended for prolonged use above 800°F.
 (2) Not to be used over 650°F.

PRESSURE - TEMPERATURE RATINGS

IMPERIAL UNITS - psig / °F - from ASME B16.34

ASTM A105 - ASTM A350 LF2-ASTM A216 WCB • ASME B16.34 GROUP 1.1							
°F	150#	300#	600#	800#	1500#	2500#	4500#
	(PN20)	(PN50)	(PN100)	(PN140)	(PN250)	(PN420)	(PN760)
-20	285	740	1480	1975	3705	6170	11110
100	285	740	1480	1975	3705	6170	11110
200	260	675	1350	1800	3375	5625	10120
300	230	655	1315	1750	3280	5470	9845
400	200	635	1270	1690	3170	5280	9505
500	170	600	1200	1595	2995	4990	8980
600	140	550	1095	1460	2735	4560	8210
650	125	535	1075	1430	2685	4475	8055
700	110	535	1065	1420	2665	4440	7990
750	95	505	1010	1345	2520	4200	7560
800	80	410	825	1100	2060	3430	6170

METRIC UNITS - °C / barg - values interpolated from ASME B16.34

ASTM A105 - ASTM A350 LF2-ASTM A216 WCB • ASME B16.34 GROUP 1.1							
°C	150#	300#	600#	800#	1500#	2500#	4500#
	(PN20)	(PN50)	(PN100)	(PN140)	(PN250)	(PN420)	(PN760)
-29	19.7	51.0	102.1	136.2	255.5	425.5	766.2
0	19.7	51.0	102.1	136.2	255.5	425.5	766.2
50	19.3	50.0	100.1	133.6	250.5	417.2	751.2
100	17.7	46.4	92.8	123.7	232.0	386.6	695.7
150	15.8	45.1	90.6	120.6	226.1	377.0	678.5
200	14.0	43.9	87.8	116.9	219.2	365.2	657.4
250	12.1	41.8	83.6	111.1	208.7	347.6	625.7
300	10.2	38.9	77.5	103.3	193.6	322.8	581.1
350	8.4	36.9	74.0	98.5	184.8	308.0	554.4
375	7.4	36.6	72.9	97.2	182.4	303.9	546.9
400	6.5	34.6	69.1	92.1	172.5	287.5	517.5
427	5.5	28.3	56.9	75.9	142.1	236.6	425.5

Notes: 1MPa = 10 bar; 100 kPa = 1bar

IMPERIAL UNITS - psig / °F

ASTM A182 F11CL 2 - ASTM A217 WC6 • ASME B16.34 GROUP 1.9							
°F	150#	300#	600#	800#	1500#	2500#	4500#
	(PN20)	(PN50)	(PN100)	(PN140)	(PN250)	(PN420)	(PN760)
-20	290	750	1500	2000	3750	6250	11250
100	290	750	1500	2000	3750	6250	11250
200	260	750	1500	2000	3750	6250	11250
300	230	720	1445	1925	3610	6015	10830
400	200	695	1385	1850	3465	5775	10400
500	170	665	1330	1775	3325	5540	9965
600	140	605	1210	1615	3025	5040	9070
650	125	590	1175	1570	2940	4905	8825
700	110	570	1135	1515	2840	4730	8515
750	95	530	1065	1420	2660	4430	7970
800	80	510	1015	1355	2540	4230	7610
850	65	485	975	1300	2435	4060	7305
900	50	450	900	1200	2245	3745	6740
950	35	320	640	850	1595	2655	4785
1000	20	215	430	575	1080	1800	3240
1050	20	145	290	385	720	1200	2160
1100	20	95	190	255	480	800	1440
1150	20	60	125	165	310	515	925
1200	15	40	75	100	190	315	565

METRIC UNITS - °C / barg

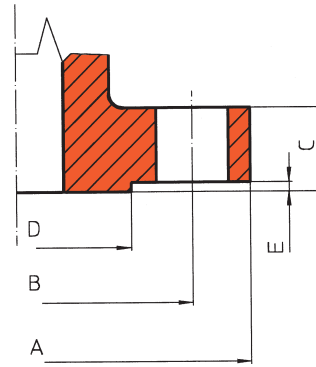
ASTM A182 F11 CL 2 - ASTM A217 WC6 • ASME B16.34 GROUP 1.9							
°C	150#	300#	600#	800#	1500#	2500#	4500#
	(PN20)	(PN50)	(PN100)	(PN140)	(PN250)	(PN420)	(PN760)
-29	20.0	51.7	103.4	137.9	258.6	431.0	775.9
0	20.0	51.7	103.4	137.9	258.6	431.0	775.9
50	19.5	51.7	103.4	137.9	258.6	431.0	775.9
100	17.7	51.5	103.0	137.3	257.5	429.1	772.4
150	15.8	49.6	99.6	132.7	248.8	414.5	746.3
200	14.0	48.1	95.8	128.0	239.8	399.6	719.6
250	12.1	46.2	92.4	123.3	231.1	385.0	692.6
300	10.2	42.9	85.8	114.5	214.4	357.2	642.8
350	8.4	40.4	80.4	107.4	201.1	335.4	603.5
375	7.4	38.9	77.6	103.6	194.1	323.3	582.0
400	6.5	36.5	73.3	97.8	183.1	305.0	548.7
425	5.6	35.3	70.2	93.7	175.7	292.6	526.3
450	4.6	33.7	67.7	90.3	169.1	281.9	507.2
475	3.7	31.7	63.4	84.6	158.2	263.9	475.0
500	2.8	25.3	50.6	67.3	126.1	210.2	378.5
525	1.9	18.2	36.3	48.4	90.8	151.3	272.5
550	1.4	12.7	25.4	33.9	63.6	105.9	190.7
575	1.4	8.8	17.7	23.5	44.0	73.4	132.1
600	1.4	6.0	12.0	16.1	30.3	50.5	90.8
625	1.3	3.9	8.1	10.8	20.2	33.6	60.3
649	1.0	2.8	5.2	6.9	13.1	21.7	39.0

Notes: 1MPa = 10 bar; 100 kPa = 1bar

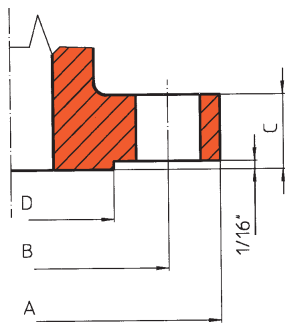
psig = pound-force per square inch gage
barg = bar gage

FLANGES DIN 2544-45-46

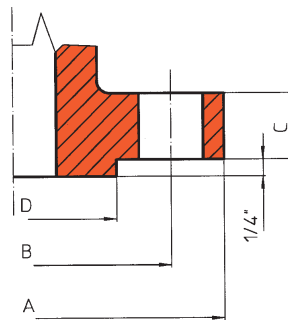
DN	PN	Size (inch)	A	B	C	D	E	Bolt holes	
								N	Ø
15	25/40	1/2	95	65	16	45	2	4	14
20		3/4	105	75	18	58	2	4	14
25		1	115	85	18	68	2	4	14
32		1 1/4	140	100	18	78	2	4	18
40		1 1/2	150	110	18	88	3	4	18
50		2	165	125	20	102	3	4	18
15	64	1/2	105	75	20	45	2	4	14
20		3/4	130	90	22	58	2	4	18
25		1	140	100	24	65	2	4	18
32		1 1/4	155	110	24	75	2	4	22
40		1 1/2	170	125	26	88	3	4	22
50		2	180	135	26	95	3	4	22



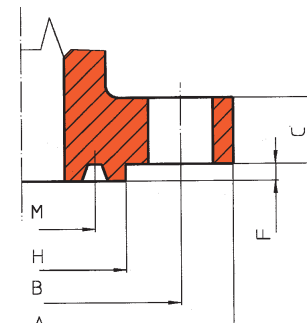
FLANGES ASME - B16.5



FLANGES ANSI - B16.5



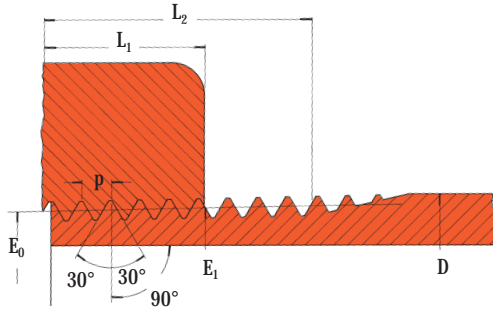
RAISED FACE 600 & 1500 lb



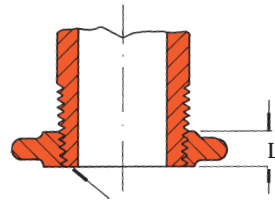
RING JOINT FACE

CLASS	Size (inch)	A		C		D		B		Bolt holes		Ring Joint Facing				Ring N.		
		unit	unit	unit	unit	unit	unit	N	unit	unit	H	M	F					
150	1/2	3.50	89.0	0.44	11.5	1.38	34.9	2.38	60.5	4	0.62	16.0	-	-	-	-	-	
	3/4	3.88	98.5	0.50	13.0	1.69	42.9	2.75	70.0	4	0.62	16.0	-	-	-	-	-	
	1	4.25	108.0	0.56	14.5	2.00	50.8	3.12	79.5	4	0.62	16.0	2.50	63.5	1.875	47.62	0.250	6.4
	1 1/4	4.62	117.5	0.62	16.0	2.50	63.5	3.50	89.0	4	0.62	16.0	2.88	73.0	2.250	57.15	0.250	6.4
	1 1/2	5.00	127.0	0.69	18.0	2.88	73.0	3.88	98.5	4	0.62	16.0	3.25	82.5	2.562	65.07	0.250	6.4
	2	6.00	152.5	0.75	19.5	3.62	92.1	4.75	120.5	4	0.75	19.0	4.00	101.5	3.250	82.55	0.250	6.4
300	1/2	3.75	95.5	0.56	14.5	1.38	34.9	2.62	66.5	4	0.62	16.0	2.00	50.8	1.344	34.14	0.219	5.6
	3/4	4.62	117.5	0.62	16.0	1.69	42.9	3.25	82.5	4	0.75	19.0	2.50	63.5	1.688	42.88	0.250	6.4
	1	4.88	124.0	0.69	18.0	2.00	50.8	3.50	89.0	4	0.75	19.0	2.75	69.9	2.000	50.80	0.250	6.4
	1 1/4	5.25	133.5	0.75	19.5	2.50	63.5	3.88	98.5	4	0.75	19.0	3.12	79.2	2.375	60.32	0.250	6.4
	1 1/2	6.12	156.0	0.81	21.0	2.88	73.0	4.50	114.5	4	0.88	22.0	3.56	90.4	2.688	68.28	0.250	6.4
	2	6.50	165.5	0.88	22.5	3.62	92.1	5.00	127.0	8	0.75	19.0	4.25	108.0	3.250	82.55	0.312	7.9
600	1/2	3.75	95.5	0.56	14.5	1.38	34.9	2.62	66.5	4	0.62	16.0	2.00	50.5	1.344	34.14	0.219	5.6
	3/4	4.62	117.5	0.62	16.0	1.69	42.9	3.25	82.5	4	0.75	19.0	2.50	63.5	1.688	42.88	0.250	6.4
	1	4.88	124.0	0.69	18.0	2.00	50.8	3.50	89.0	4	0.75	19.0	2.75	69.9	2.000	50.80	0.250	6.4
	1 1/4	5.25	133.5	0.81	21.0	2.50	63.5	3.88	98.5	4	0.75	19.0	3.12	79.4	2.375	60.32	0.250	6.4
	1 1/2	6.12	156.0	0.88	22.5	2.88	73.0	4.50	114.5	4	0.88	22.0	3.56	90.5	2.688	68.28	0.250	6.4
	2	6.50	165.5	1.00	25.5	3.62	92.1	5.00	127.0	8	0.75	19.0	4.25	108.0	3.250	82.55	0.312	7.9
1500	1/2	4.75	121.0	0.88	22.5	1.38	34.9	3.25	82.5	4	0.88	22.0	2.38	60.3	1.562	39.67	0.250	6.4
	3/4	5.12	130.5	1.00	25.5	1.69	42.9	3.50	89.0	4	0.88	22.0	2.62	66.7	1.750	44.45	0.250	6.4
	1	5.88	149.5	1.12	29.0	2.00	50.8	4.00	101.5	4	1.00	25.5	2.81	71.4	2.000	50.80	0.250	6.4
	1 1/4	6.25	159.0	1.12	29.0	2.50	63.5	4.38	111.0	4	1.00	25.5	3.19	81.0	2.375	60.32	0.250	6.4
	1 1/2	7.00	178.0	1.25	32.0	2.88	73.0	4.88	124.0	4	1.12	28.5	3.62	92.1	2.688	68.28	0.250	6.4
	2	8.50	216.0	1.50	38.5	3.62	92.1	6.50	165.0	8	1.00	25.5	4.88	123.8	3.750	95.25	0.312	7.9
2500	1/2	5.23	133.5	1.20	30.5	1.38	34.9	3.50	89.0	4	0.88	22.0	2.55	65.1	1.688	42.88	0.250	6.4
	3/4	5.51	140.0	1.25	32.0	1.69	42.9	3.74	95.0	4	0.88	22.0	2.87	73.0	2.000	50.80	0.250	6.4
	1	6.25	159.0	1.37	35.0	2.00	50.8	4.24	108.0	4	1.00	25.5	3.24	82.5	2.374	60.32	0.250	6.4
	1 1/4	7.24	184.5	1.51	38.5	2.50	63.5	5.12	130.0	4	1.12	28.5	3.99	101.5	2.844	72.24	0.312	7.9
	1 1/2	7.99	203.5	1.75	44.5	2.88	73.0	5.74	146.0	4	1.25	31.5	4.50	114.3	3.250	82.55	0.312	7.9
	2	9.25	235.0	2.00	51.0	3.62	92.1	6.74	171.5	8	1.12	28.5	5.25	133.3	4.000	101.60	0.312	7.9

END CONNECTIONS



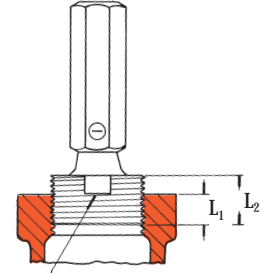
$E_0 = D - (0.050D + 1.1)p$ $p = \text{Pitch}$
 $E_1 = E_0 + 0.0625 L_1$ $\text{Depth of thread} = 0.80p$
 $L_2 = (0.80D = 6.8)p$ $\text{Total Taper } \frac{3}{4} \text{ -inch per Foot}$



Flush by Hand

Tolerance on Product

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

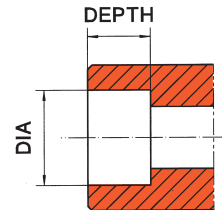


Notch flush with face of fitting. If chambered, notch flush with bottom of chamber.

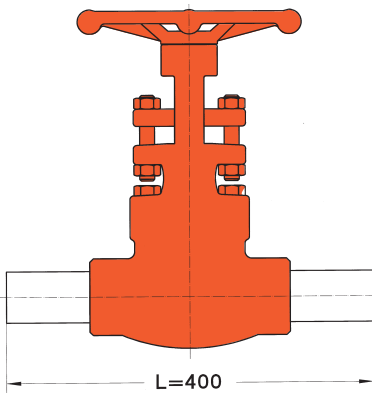
THREADS - ASME B1.20.1

Nominal pipe size (inch)	D Outside diameter of pipe (inch)	Number of threads per inch	p Pitch of thread unit	E ₀ Pitch diameter at end of external thread (inch)	E ₁ ■ Pitch diameter at end of external unit	L ₁ ● Normal engagement by and between external and internal threads	L ₂ ◆ Length of effective external thread unit	Height of thread unit
1/16	0.3125	27	0.03704	0.27118	0.28118	0.160	0.2611	0.02963
1/8	0.405	27	0.03704	0.36351	0.37360	0.1615	0.2639	0.02963
1/4	0.540	18	0.05556	0.47739	0.49163	0.2278	0.4018	0.04444
3/8	0.675	18	0.05556	0.61201	0.62701	0.240	0.4078	0.04444
1/2	0.840	14	0.07143	0.75843	0.77843	0.320	0.5337	0.05714
3/4	1.050	14	0.07143	0.96768	0.98887	0.339	0.5457	0.05714
1	1.315	11.5	0.08696	1.23863	1.23863	0.400	0.6828	0.06957
1 1/4	1.660	11.5	0.08696	1.55713	1.58338	0.420	0.7068	0.06957
1 1/2	1.900	11.5	0.08696	1.79609	1.82234	0.420	0.7235	0.06957
2	2.375	11.5	0.08696	2.26902	2.29627	0.436	0.7565	0.06957

- Also pitch diameter at gauging notch.
- ◆ Also length of plug gauge.
- Also length of ring gauge, and length from gauging notch to small end of plug gauge.
- * For the 1/8-27 and 1/4-18 sizes, E₁ approx. = D - (0.05D + 0.827) p.

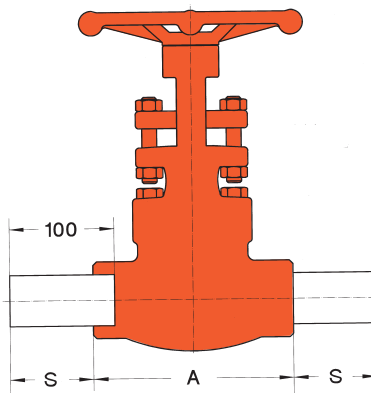


Type "L"



L = Pattern Total length 400 mm.

Type "S"



A = See relevant Product/Size/Class table within this catalogue
S = See table Socket Weld

VALVE WITH NIPPLE: LENGTHS

NOMINAL PIPE SIZE		SOCKET BORE DIA.		SOCKET DEPTH		S	
NPT	DN	mm	in.	mm	in.	mm	in.
1/4	8	14.1	0.555	11.1	0.437	89	3.503
3/8	10	17.53	0.690	11.1	0.437	89	3.503
1/2	15	21.72	0.855	12.7	0.500	88	3.464
3/4	20	27.05	1.064	14.5	0.570	86	3.385
1	25	33.78	1.329	16	0.629	85	3.346
1 1/4	32	42.54	1.674	17.5	0.688	83	3.267
1 1/2	40	48.64	1.914	19	0.748	82	3.228
2	50	61.11	2.405	22	0.866	79	3.110

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Regina, Saskatchewan
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Fax: (306) 525-9422

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Fax: (204) 786-7859

Brandon:

2511 Southern Avenue
Brandon, Manitoba
R7B 3Z4
Phone: (204) 728-0104
Fax: (204) 728-6505

Saskatoon:

2630 Millar Avenue
Saskatoon,
Saskatchewan
S7K 4C8
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Fax: (306) 934-6637

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Calgary, Alberta
T2H 0P1
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Fax: (403) 255-2665

Edmonton:

14250 – 124th
Avenue N.W.
Edmonton, Alberta
T5L 3B3
Phone: (780) 465-8888
Fax: (780) 469-2700

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2815 – 2nd Avenue S.
Lethbridge, Alberta
T1J 0G8
Phone: (403) 327-1577
Fax: (403) 327-2364

Red Deer:

8091 Edgar Industrial
Drive
Red Deer, Alberta
T4N 5E1
Phone: (403) 347-2238
Fax: (403) 347-4090

Vancouver:

Unit 210, 19358
96th Avenue
Surrey, British Columbia
V4N 4C1
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Fax: (604) 513-9779

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1755 Burlington Street
E.
Hamilton, Ontario
L8H 3L5
Phone: (905) 547-1951
Fax: (905) 547-3140

Oakville:

579 Chartwell Road
Oakville, Ontario
L6J 4A8
Phone: (905) 845-2847
Fax: (905) 845-1931

St. Catharines:

42 Scott Street
St. Catharines, Ontario
L2R 1C9
Phone: (905) 684-8196
Fax: (905) 684-9088

Cambridge:

45 Raglin Road
Cambridge, Ontario
N1R 7J2
Phone: (519) 621-9440
Fax: (519) 621-8751

London:

310 Neptune Crescent
London, Ontario
N6M 1A1
Phone: (519) 451-7729
Fax: (519) 451-8614

Windsor:

4075 Rhodes Drive
Windsor, Ontario
N8W 5B5
Phone: (519) 948-5246
Fax: (519) 945-8342

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Sarnia, Ontario
N7S 5N3
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Fax: (514) 766-7138

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Granby, Québec
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Fax: (450) 378-2439

Sept Îles:

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Sept Îles, Québec
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Corner Brook:

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Newfoundland
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Moncton, New
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Fax: (506) 859-0340

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New Minas, Nova Scotia
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Mount Pearl,
Newfoundland
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Fax: (709) 747-7795

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Fax: (416) 244-4621

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Cornwall, Ontario
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Fax: (613) 938-6431

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Kingston, Ontario
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Fax: (613) 542-8824

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Oshawa, Ontario
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Phone: (905) 436-7366
Fax: (905) 436-9206

Ottawa:

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