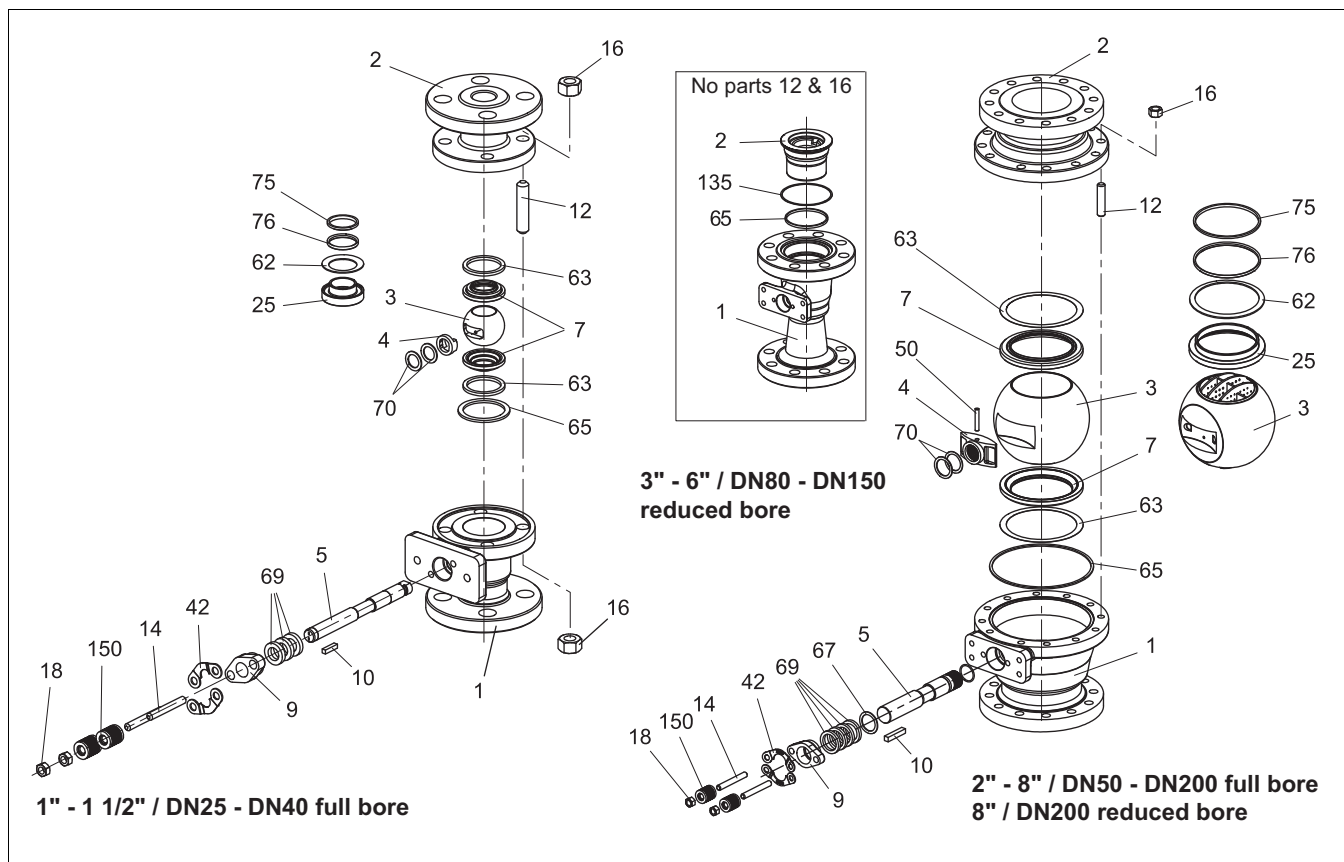


EXPLODED VIEW



PARTS LIST

Item	Part description	Material		
1	Body	Stainless steel CF8M	Carbon steel WCB	Chrome Moly C5
2	Body cap	Stainless steel CF8M / AISI 316	Carbon steel WCB	Chrome Moly C5
	Insert 3" - 6" / DN80 - 150 reduced bore	Stainless steel CF8M / AISI 316	Carbon steel WCB	Chrome Moly C5
3	Ball / Q-TRIM ball	Stainless steel AISI 316 / CF8M		
4	Spline driver 2" - 8" / DN 50 - 200	Stainless steel CF8M		
	Thrust ring 1" - 1 1/2" / DN25 - 40	AISI 316		
5	Shaft	Stainless steel XM-19		
7	Ball seat	Stainless steel + cobalt based alloy		
9	Gland	Stainless steel CF8M		
10	Key	Stainless steel AISI 329		
12	Stud (not in reduced bore 3" - 6" / DN80 - 150)	ASTM A 193 gr. B8M	ASTM A 320 gr. L7M (B7)	
14	Stud	ASTM A 193 gr. B8M	ASTM A 320 gr. L7M (B7)	
16	Hexagon nut (not in reduced bore 3" - 6" / DN80 - 150)	ASTM A 193 gr. 8M	ASTM A 194 gr. 2 HM (2H)	
18	Hexagon nut	ASTM A 193 gr. 8M	ASTM A 194 gr. 2 HM (2H)	
25	Ball seat (H)	Stainless steel + cobalt based alloy		
42	Retainer plate	Stainless steel AISI 316		
50	Locking pin	Stainless steel XM-19		
62	Seat spring	Alloy 825		
63	Back seal	PTFE or graphite		
65	Body gasket	Stainless steel AISI 316 + PTFE or graphite filled spiral wound		
67	Thrust ring	Stainless steel AISI 316		
69	Packing ring	PTFE or graphite		
70	Thrust bearing	Cobalt based alloy or PTFE		
75	Seat seal (H)	Graphite		
76	Back-up ring	Stainless steel AISI 316		
135	Gasket (only in reduced bore 3" - 6" / DN80 - 150)	Graphite or PTFE		
150	Disc spring set	Electroless nickel plated spring steel (EN 10083-1.8159)		

Product type

Full bore, seat supported ball valve
 Floating ball design
 Split body design

Pressure ratings

ASME 150 and 300

Size range

1" – 8" / DN25 - 200 in full bore
 3" - 8" / DN80 - 200 in reduced bore

Temperature range

-200 ... +600 °C / -330 ... 1110 °F, consult factory for higher temperature applications.

Design standards

Valve body ASME B16.34
 Valve flanges ASME B16.5
 Face-to-face ASME B16.10 long pattern, full bore
 ASME B16.10 short pattern, reduced bore
 Actuator mounting ISO 5211

Standard materials

Body: WCB, C5 and CF8M
 Ball: CF8M + hard chrome or other special coatings with metal seats
 Bearings: PTFE or cobalt based alloy
 Seats: stainless steel + cobalt based alloy
 Seals/gaskets: PTFE or graphite
 Body gasket: spiral wound with PTFE or graphite filler
 Gland packing: PTFE (V-rings) or graphite
 Bolting: L7M/2HM or B8M/8M.
 B7/2H available in USA only.

Material and test certification

EN 10204-3.1 material certificates for body and bonnet.
 Tightness test certificate.

Standard options

Carbide or NiBo ball and seat coatings
 Spring loaded seat
 Solid proof seat
 Q-TRIM
 High temperature linkages (temperatures above +300 °C/+570 °F)
 Anti-static
 Oxygen construction for gaseous oxygen service.
 Cryogenic version (temperatures below -50 °C/-58 °F)
 Steam jacket
 Fire tested API 607, with selected constructions and seat designs
 NACE MR 0103. NACE MR 0175 on request based on application.

Valve testing

Each valve is tested for body integrity and seat tightness.
 The body test pressure is 1.5 x PN. The seat test pressure for metal seated valves is 1.1 x PN.
 The test medium is inhibited water. Air test upon request.

Valve tightness

ISO 5208 Rate C or ANSI/FCI 70-2 class V for metal seats
 Other tightness rates upon request
 - Rate B
 - ANSI Class VI
 - API 598 above 2"

C_v (K_v) -values and resistance coefficients, full bore

Valve size inch / DN	Standard trim			Q-TRIM	
	C _v 90°	K _v 90°	ζ 90°	C _v 90°	K _v 90°
1 / 25	105	91	0.08	–	–
1 1/2 / 40	250	220	0.07	–	–
2 / 50	490	425	0.06	84	73
3 / 80	1160	1000	0.05	245	210
4 / 100	2200	1900	0.05	530	460
6 / 150	5100	4400	0.04	1360	1180
8 / 200	9300	8000	0.04	2330	2020

C_v (K_v) -values and resistance coefficients, reduced bore

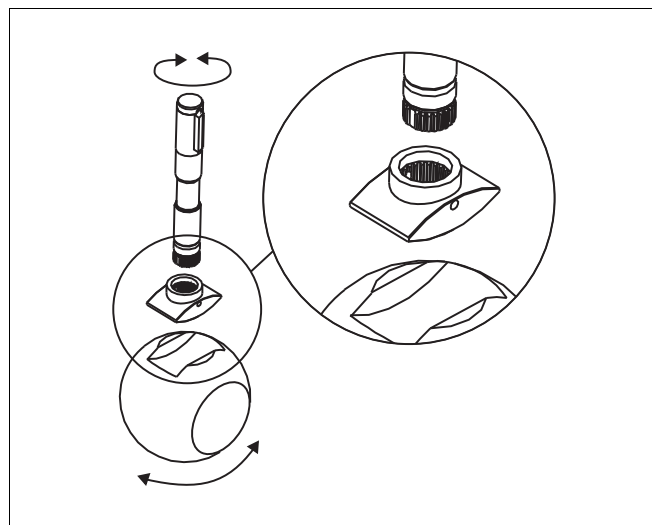
Valve size Inch / DN	Standard trim			Q-Trim	
	C _v 90°	K _v 90°	ζ 90°	C _v 90°	K _v 90°
3 / 80	234	202	1.6	84	73
4 / 100	666	576	0.5	245	212
6 / 150	1022	884	1.0	530	458
8 / 200	2665	2305	0.5	1360	1176

THE ADVANTAGES OF THE SPLINE DRIVER

This unique design allows for a larger shaft to ball interface, which in turn minimizes the contact stress. This feature results in:

- excellent operational durability
- maximized torque transmission
- accurate operation,
- minimized mechanical backlash

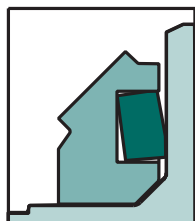
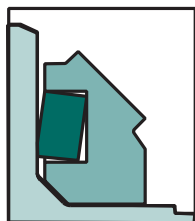
For the end-user, these technical advantages offer longer valve life, less maintenance, more economical and safer processes.
 The spline driver construction is available in valve sizes 2" - 8" / DN50 - 200.



STANDARD SEATS CONSTRUCTIONS AND MATERIALS

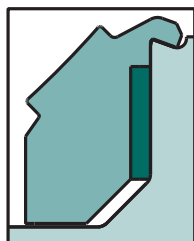
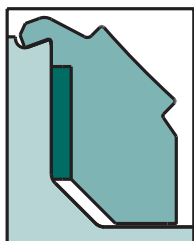
Seat type

Standard materials

S Scraping general seat

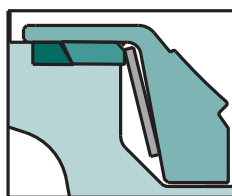
1" - 8"

Ball seat: Stainless steel + hard facing
 Seat seal: PTFE
 Temp. range: -50 ... +230 °C / -58 ... +440 °F
 Note: Available only in sizes 1"...8" / DN 25...200

K Scraping locked seat

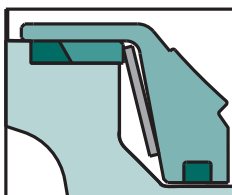
1" - 8"

Ball seat: Stainless steel + hard facing
 Seat seal: PTFE
 Temp. range: -50 ... +260 °C / -58 ... +480 °F
 Note: Available in sizes 1"...8" / DN 25...200

H High temperature seat

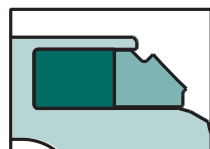
1" - 8"

Ball seat: Stainless steel + hard facing
 Seat seal: Graphite
 Spring: INCOLOY 825
 Temp. range: -200 ... +538 °C / -330 ... +1000 °F
 (+600 °C/+1110 °F with NiBo or carbide coated ball and Inconel 718 spring)

G Dust proof seat

1" - 8"

Ball seat: SS steel + hard facing
 Seat seal: Graphite
 Spring: INCOLOY 825
 Temp. range: -200 ... +538 °C / -330 ... +1000 °F
 (+600 °C/+1110 °F with NiBo or carbide coated ball and Inconel 718 spring)

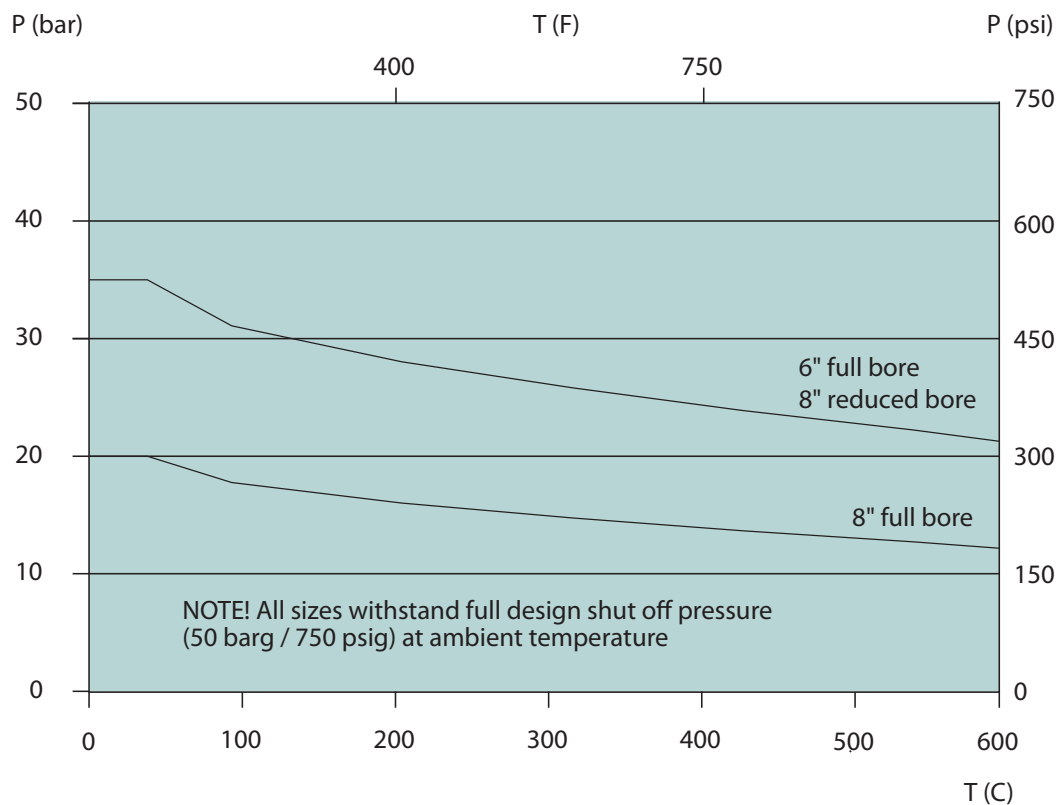
J Solids proof seat

Ball seat: SS steel + hard facing
 Seat seal: Graphite
 Temp. range: -50 ... +600 °C / -58 ... +1110 °F
 NOTE: Available only with carbide or NiBo coated ball.
 Available only in sizes 2"- 6" / DN 50 - 150

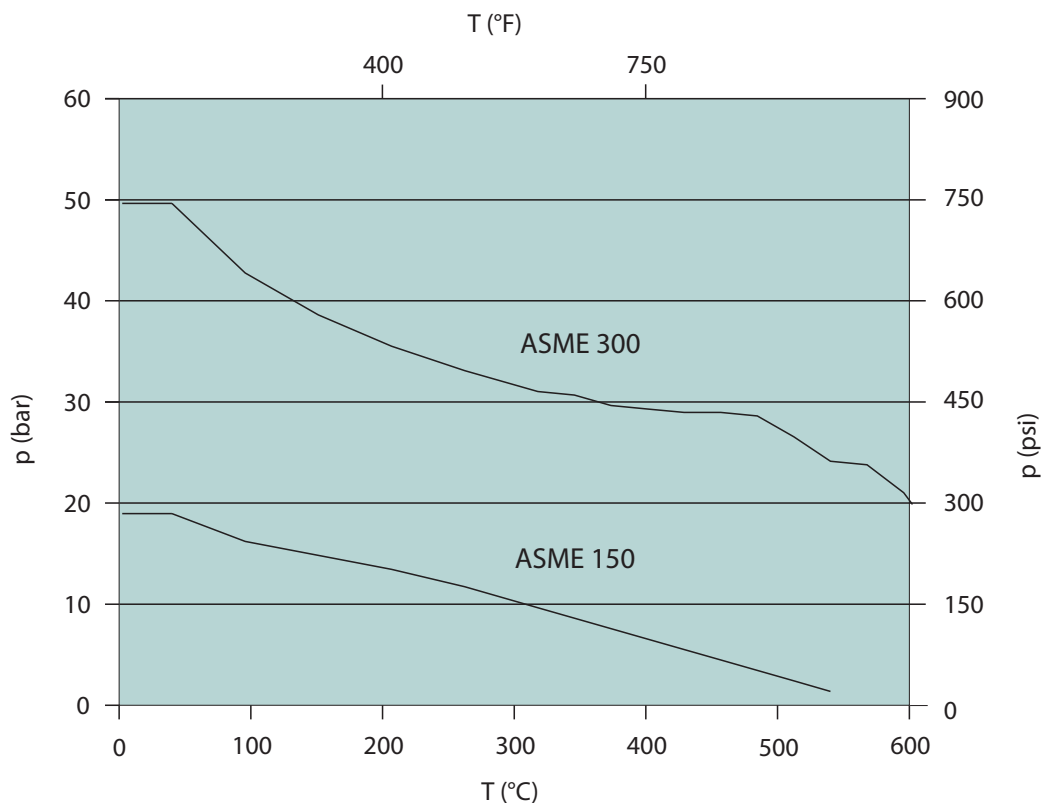
Soft seated versions - see bulletin 1 X 27 (full and reduced bore types).



MAXIMUM OPERATIONAL PRESSURE DIFFERENTIAL Metal seated ASME Class 300

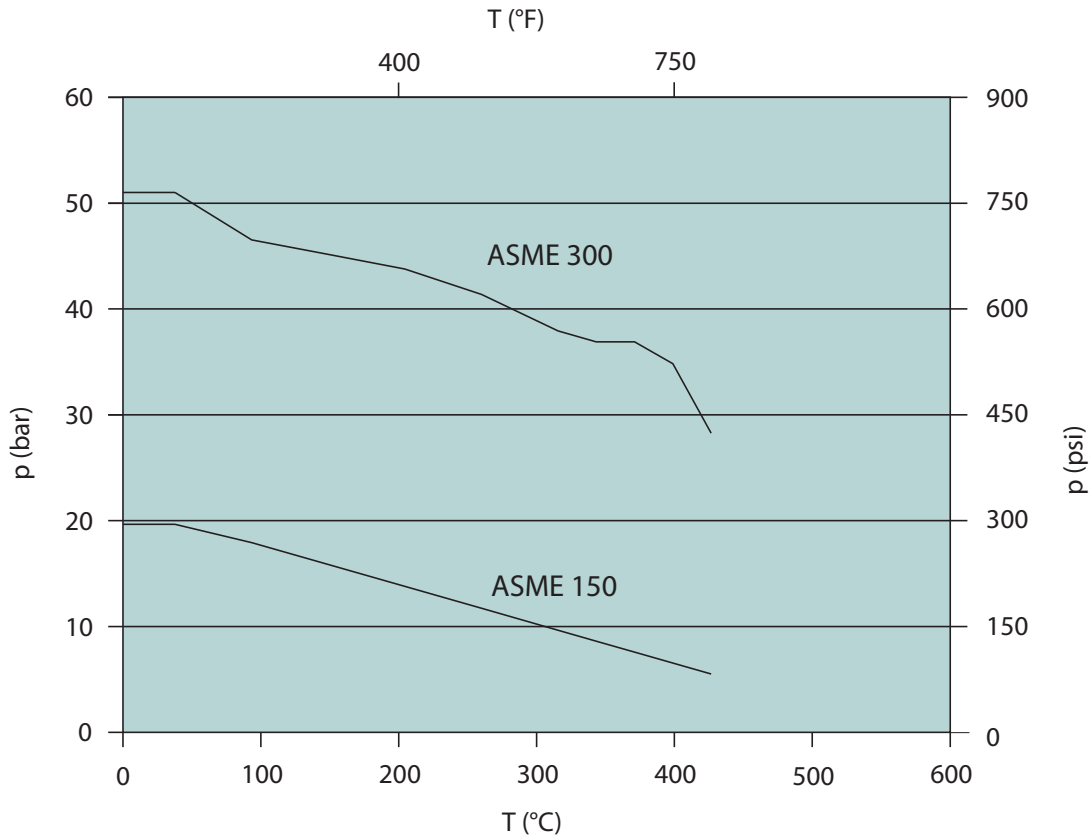


BODY PRESSURE/TEMPERATURE RATING, ASTM A351 gr.CF8M

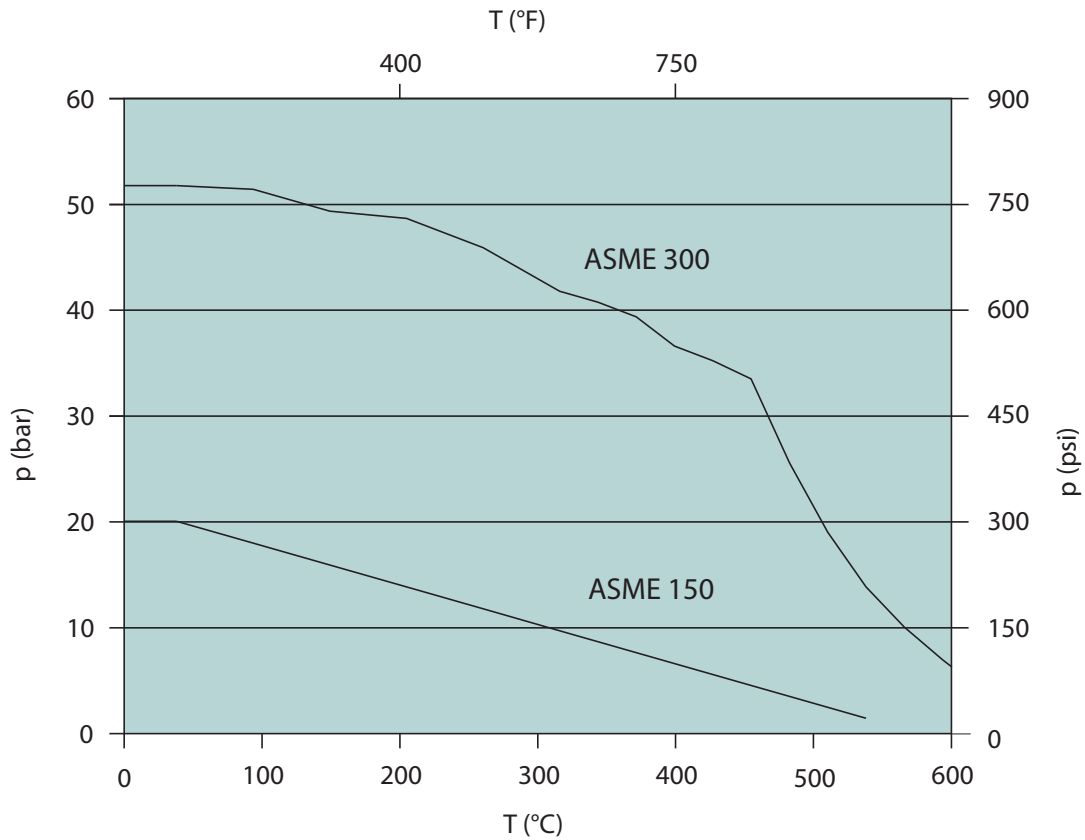


The Above metal seated valve ratings are based on working pressure for ASME 300 class only.
Smaller sizes and ASME Class 150 are fully rated.

**BODY PRESSURE/TEMPERATURE RATING,
ASTM A216 gr.WCB**



**BODY PRESSURE/TEMPERATURE RATING,
ASTM A217 gr.C5**





X series valve can be equipped with the following Metso actuator types:

B1C/B1J Pneumatic double acting or spring return actuator.

Actuators available for size range DN 25 - 200 / 1"-8", B1C/B1J actuators have an ISO 5211 mounting face.

M Gear operator for valve sizes DN 25-200 / 1"-8".

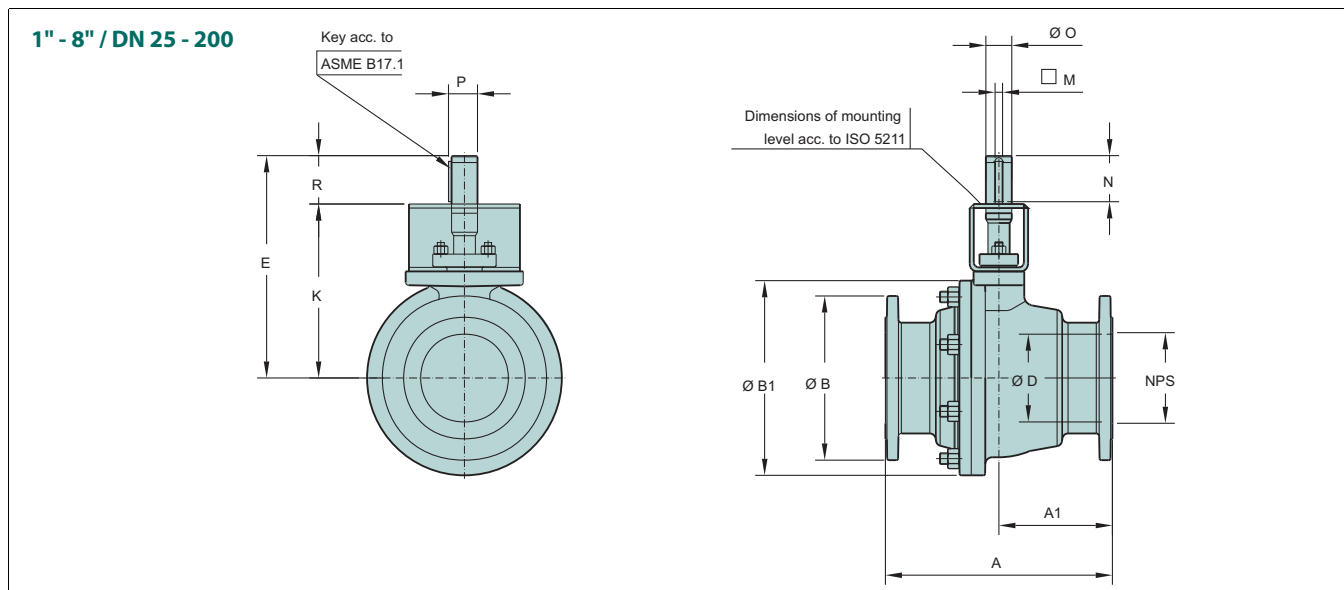
LX/LK Hand lever for valve sizes DN 25-100 / 1"-4".

When selecting other actuators, please contact your local Metso representative.

For the correct actuator selection in on-off service, you need to know the following process data:

- valve size and seat type
- supply pressure for the actuator
- maximum shut-off pressure across the valve

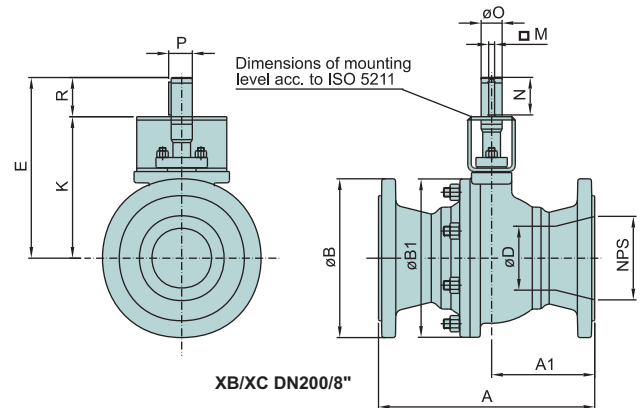
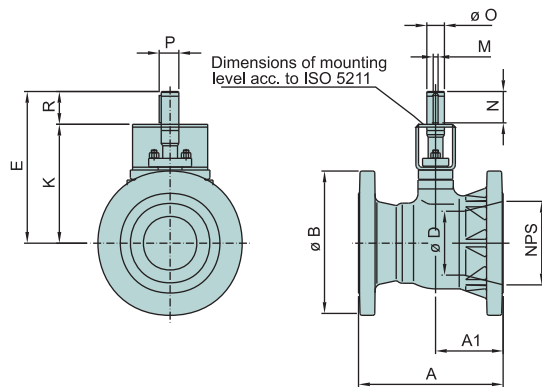
DIMENSIONS, FULL BORE



TYPE	SIZE	ISO FLANGE	DIMENSIONS, mm												kg
			A	A1	ØB	ØB1	ØD	E	K	□M	N	ØO	P	R	
XT_C	1	F07	165	74	110	110	25.4	175	150	4.76	25	15	17	25	6
	1.5	F07	165	70	125	145	38.1	202	168	4.76	35	20	22	34	8
	2	F07, F10	178	79.0	150	146	50.8	215	168	6.35	46	25	27.8	47	11
	3	F07, F10, F12, F14	203	101.5	190	190	76.2	237	190	6.35	46	25	27.8	47	25
	4	F10, F12, F14	229	110.5	230	241	101.6	309	250	9.52	58	35	39.1	59	39
	6	F14, F16	394	197.0	280	338	152.4	386	305	12.70	80	45	50.4	81	93
	8	F14, F16, F25	457	228.5	345	430	203.2	476	385	12.70	90	55	60.6	91	190
XA_D	1	F07	165	74	125	110	25.4	175	150	4.76	25	15	17	25	7
	1.5	F07	191	70	155	145	38.1	202	168	4.76	35	20	22	34	11
	2	F07, F10	216	89.0	165	146	50.8	215	168	6.35	46	25	27.8	47	15
	3	F07, F10, F12, F14	282	141.0	210	195	76.2	237	190	6.35	46	25	27.8	47	35
	4	F10, F12, 14	305	152.5	255	252	101.6	309	250	9.52	58	35	39.1	59	59
	6	F14, F16	403	201.5	320	346	152.4	386	305	12.70	80	45	50.4	81	129
	8	F14, F16, F25	502	249.0	380	462	203.2	476	385	12.70	90	55	60.6	91	255

TYPE	SIZE	ISO FLANGE	DIMENSIONS, inch												lbs
			A	A1	ØB	ØB1	ØD	E	K	□M	N	ØO	P	R	
XT_C	1	F07	6.50	2.91	4.25	4.33	1.00	6.89	5.91	0.19	0.98	0.59	0.67	0.98	13
	1.5	F07	6.50	2.76	5.00	5.71	1.50	7.95	6.61	0.19	1.38	0.79	0.87	1.39	18
	2	F07, F10	7.01	3.11	6.00	5.75	2.00	8.46	6.61	0.25	1.81	0.98	1.09	1.85	24
	3	F07, F10, F12, F14	7.99	4.00	7.50	7.48	3.00	9.33	7.48	0.25	1.81	0.98	1.09	1.85	55
	4	F10, F12, F14	9.02	4.35	9.00	9.49	4.00	12.17	9.84	0.37	2.28	1.38	1.54	2.32	86
	6	F14, F16	15.51	7.76	11.00	13.46	6.00	15.20	12.01	0.50	3.15	1.77	1.98	3.19	205
	8	F14, F16, F25	17.99	9.00	13.50	16.93	8.00	18.74	15.16	0.50	3.54	2.17	2.39	3.58	418
XA_D	1	F07	6.50	2.91	4.88	4.33	1.00	6.89	5.91	0.19	0.98	0.59	0.67	0.98	15
	1.5	F07	7.52	2.76	6.12	5.71	1.50	7.95	6.61	0.19	1.38	0.79	0.87	1.39	24
	2	F07, F10	8.50	3.50	6.50	5.75	2.00	8.46	6.61	0.25	1.81	0.98	1.09	1.85	33
	3	F07, F10, F12, F14	11.10	5.55	8.25	7.87	3.00	9.33	7.48	0.25	1.81	0.98	1.09	1.85	77
	4	F10, F12, 14	12.01	6.00	10.00	10.00	4.00	12.17	9.84	0.37	2.28	1.38	1.54	2.32	130
	6	F14, F16	15.87	7.93	12.50	13.90	6.00	15.20	12.01	0.50	3.15	1.77	1.98	3.19	284
	8	F14, F16, F25	19.76	9.80	15.00	18.19	8.00	18.74	15.16	0.50	3.54	2.17	2.39	3.58	561

FACE-TO-FACE DIMENSIONS ACC. TO ASME B16.10
 PRESSURE RATINGS C=ASME 150, D=ASME 300
 Valve is shown in closed position

3" - 6" / DN 80 - 150**8" / DN 200****ASME 150**

TYPE	SIZE	ISO FLANGE	DIMENSIONS, mm												kg
			A	A1	ØB	ØB1	ØD	E	K	□M	N	ØO	P	R	
XB	3	F07, F10	203	100	190	-	50.8	215	168	6.35	46	25	27.8	47	23
	4	F07, F10, F12, F14	229	107	230	-	76.2	237	190	6.35	46	25	27.8	47	34
	6	F10, F12, F14	267	126	280	-	101.6	309	250	9.52	58	35	39.1	59	82
	8	F14, F16	292	135	345	342	152.4	386	305	12.70	80	45	50.4	81	160

TYPE	SIZE	ISO FLANGE	DIMENSIONS, inch												lbs
			A	A1	ØB	ØB1	ØD	E	K	□M	N	ØO	P	R	
XB	3	F07, F10	8.00	3.94	7.5	-	2.00	8.46	6.6	0.25	1.81	0.98	1.09	1.85	51
	4	F07, F10, F12, F14	9.00	4.21	9.0	-	3.00	9.33	7.5	0.25	1.81	0.98	1.09	1.85	75
	6	F10, F12, F14	10.50	4.98	11.0	-	4.00	12.17	9.8	0.37	2.28	1.38	1.54	2.32	180
	8	F14, F16	11.50	5.31	13.5	13.5	6.00	15.20	12.0	0.50	3.15	1.77	1.98	3.19	353

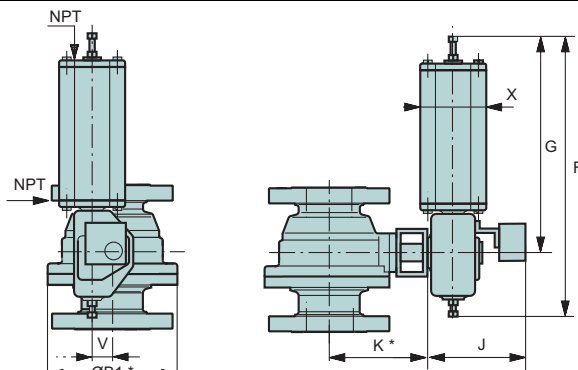
ASME 300

TYPE	SIZE	ISO FLANGE	DIMENSIONS, mm												kg
			A	A1	ØB	ØB1	ØD	E	K	□M	N	ØO	P	R	
XC	3	F07, F10	283	100	210	-	50.8	215	168	6.35	46	25	27.8	47	31
	4	F07, F10, F12, F14	305	107	255	-	76.2	237	190	6.35	46	25	27.8	47	50
	6	F10, F12, F14	403	126	320	-	101.6	309	250	9.52	58	35	39.1	59	110
	8	F14, F16	419	209.5	380	353	152.4	386	305	12.70	80	45	50.4	81	235

TYPE	SIZE	ISO FLANGE	DIMENSIONS, inch												lbs
			A	A1	ØB	ØB1	ØD	E	K	□M	N	ØO	P	R	
XC	3	F07, F10	11.12	3.94	8.25	-	2.00	8.46	6.6	0.25	1.81	0.98	1.09	1.85	68
	4	F07, F10, F12, F14	12.00	4.21	10.0	-	3.00	9.33	7.5	0.25	1.81	0.98	1.09	1.85	110
	6	F10, F12, F14	15.88	4.98	12.5	-	4.00	12.17	9.8	0.37	2.28	1.38	1.54	2.32	242
	8	F14, F16	16.50	8.25	15.0	13.9	6.00	15.20	12.0	0.50	3.15	1.77	1.98	3.19	518

Face to face dimensions acc. to ASME B16.10
 Valve is shown in closed position.

VALVE + B1C/B1J/B1JA



*) See ØB1 and K dimensions from tables on pages 8 & 9.

B1C ACTUATOR

Type	DIMENSIONS, mm					NPT	kg
	F	G	J	V	X		
B1C6	395	270	283	36	90	1/4	4.2
B1C9	450	315	279	43	110	1/4	9.6
B1C11	535	375	290	51	135	3/8	16
B1C13	640	445	316	65	175	3/8	31
B1C17	785	555	351	78	215	1/2	54
B1C20	880	590	385	97	215	1/2	73
B1C25	1075	725	448	121	265	1/2	131
B1C32	1370	920	525	153	395	3/4	256
B1C40	1670	1150	595	194	505	3/4	446
B1C50	2060	1350	690	242	610	1	830

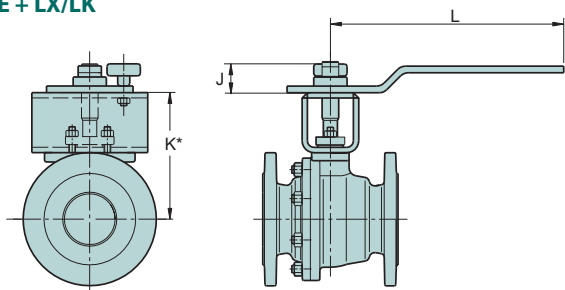
Type	DIMENSIONS, inch					NPT	lbs
	F	G	J	V	X		
B1C6	15.55	10.63	11.14	1.42	3.54	1/4	9
B1C9	17.72	12.40	10.98	1.69	4.33	1/4	21
B1C11	21.06	14.76	11.42	2.01	5.31	3/8	35
B1C13	25.20	17.52	12.44	2.56	6.89	3/8	68
B1C17	30.91	21.85	13.82	3.07	8.46	1/2	119
B1C20	34.65	23.23	15.16	3.82	8.46	1/2	161
B1C25	42.32	28.54	17.64	4.76	10.43	1/2	289
B1C32	52.94	36.22	20.67	6.02	15.55	3/4	564
B1C40	65.75	45.28	23.43	7.64	19.88	3/4	983
B1C50	81.10	53.15	27.17	9.53	24.02	1	1829

B1J/B1JA ACTUATOR

Type	DIMENSIONS, mm					NPT	kg
	F	G	J	V	X		
B1J/B1JA6	485	368	273	36	110	3/8	8
B1J/B1JA8	560	420	279	43	135	3/8	17
B1J/B1JA10	650	490	290	51	175	3/8	30
B1J/B1JA12	800	620	316	65	215	1/2	57
B1J/B1JA16	990	760	351	78	265	1/2	100
B1J/B1JA20	1200	935	358	97	395	3/4	175
B1J/B1JA25	1530	1200	448	121	505	3/4	350
B1J/B1JA32	1830	1410	525	153	540	1	671

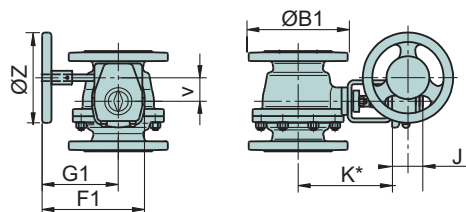
Type	DIMENSIONS, inch					NPT	lbs
	F	G	J	V	X		
B1J/B1JA6	19.09	14.49	10.75	1.42	4.33	3/8	20
B1J/B1JA8	22.05	16.54	10.98	1.69	5.31	3/8	37
B1J/B1JA10	25.59	19.29	11.42	2.01	6.89	3/8	66
B1J/B1JA12	31.50	24.41	12.44	2.56	8.46	1/2	126
B1J/B1JA16	38.98	29.92	13.82	3.07	10.43	1/2	220
B1J/B1JA20	47.24	36.81	14.09	3.82	15.55	3/4	386
B1J/B1JA25	60.24	47.24	17.64	4.76	19.88	3/4	771
B1J/B1JA32	72.05	55.51	20.67	6.02	21.26	1	1479

VALVE + LX/LK



*) See K dimension from tables on pages 8 & 9.

VALVE + M SERIES GEAR OPERATOR



*) See K and ØB1 dimension from tables on pages 8 & 9.

HAND LEVER LX AND LK

DN		Handler	J	L
Full bore	Reduced bore			
25	-	LX180A	51	180
40	-	LX220A	59	220
50	80	LK350	52	350
80	100	LK350	52	350
80	100	LK450	52	450
100	150	LK450	52	450

Size		Handler	J	L
Full bore	Reduced bore			
1	-	LX180A	2.00	7.09
1 1/2	-	LX220A	2.32	8.66
2	3	LK350	2.05	13.78
3	4	LK350	2.05	13.78
3	4	LK450	2.05	17.72
4	6	LK450	2.05	17.72

M SERIES GEAR OPERATOR

Actuator size	F1	G1	J	V	Z	kg
M07	235	184	65	52	160	3.8
M10	238	187	65	52	200	4.4
M12	307	238	88	71	315	10.1
M14	385	285	93	86	400	18.2
M15	456	346	102	105	500	26.2
M16	530	387	124	130	600	36.8
M25	597	412	160	182	600	60.8

Actuator size	F1	G1	J	V	Z	lbs
M07	9.25	7.24	2.56	2.05	6.30	8.4
M10	9.37	7.36	2.56	2.05	7.87	9.7
M12	12.09	9.37	3.46	2.80	12.40	22.3
M14	15.16	11.22	3.66	3.39	15.75	40.1
M15	17.95	13.62	4.02	4.13	19.69	57.8
M16	20.87	15.24	4.88	5.12	23.62	81.1
M25	23.50	16.22	6.30	7.17	23.62	134.0

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
XA	06	D	W	GA	J2	SJ	H	A	B	T

1. sign	VALVE SERIES & STYLE & FACE-TO-FACE
XT	Full bore, seat supported, face-to-face ASME B 16.10, Table 1, long pattern.
XA	Full bore, seat supported, face-to-face ASME 16.10, Table 2, long pattern.
XB	Reduced bore, seat supported, face-to-face ASME B 16.10, Table 1, short pattern, ASME 150
XC	Reduced bore, seat supported, face-to-face ASME B 16.10, Table 2, short pattern, ASME 300

2. sign	SIZE	
	Full bore	Reduced bore
01	1"	-
1H	1 1/2"	-
02	2"	-
03	3"	3"
04	4"	4"
06	6"	6"
08	8"	8"

3. sign	PRESSURE CLASS
C	ASME Class 150
D	ASME Class 300

4. sign	END CONNECTION STYLE
W	Raised face, ASME B 16.5, (Ra 3.2 - 6.3 / RMS 125 - 250), standard

5. sign	CONSTRUCTION & APPLICATION *)
GA	Standard construction. Live loaded packing.
GQ	Q-TRIM construction. Otherwise standard.
UU	UOP construction with solid proof J-seat
GZ	BAM tested non-metallic parts, for oxygen service. Double seated. Metal bearings; cobalt based alloy. Live loaded graphite packing. Temperature range -50...+200 °C. Max pressure per body rating. Oxygen cleaning acc. to Metso internal procedure T-2115 included.

*) Consult factory for other constructions & applications

6. sign	BODY MATERIAL
J2	ASTM A216 gr WCB
S6	ASTM A351 gr CF8M
J5	ASTM A217 gr C5

7. sign	BALL / COATING & STEM MATERIAL
SJ	316SS / Hard Chrome & XM-19
SP	316SS & XM-19 (soft seats only)
RX	316SS / Chrome carbide & XM-19
RR	316SS / WC-CO & XM-19

7. sign	BALL / COATING & STEM MATERIAL
SL	316SS / NiBo & XM-19

8. sign	SEAT TYPE, BACK SEALS AND SPRING MATERIAL		
	Seat type	Back seal	Spring
S	Metal, S	PTFE	-
K	Metal, K (locked)	PTFE	-
H	Metal, H	Graphite	Incoloy 825
G	Metal, H	Graphite	Incoloy 825
J	Metal	Graphite	-

9. sign	SEAT AND COATING MATERIAL	
	Seat material	Coating
A	316 Stainless Steel	Cobalt based hard facing
B	316 Stainless Steel	CrC-LF
R	316 Stainless Steel	Tungsten carbide, WC-CO

10. sign	GASKET, PACKING & BEARING MATERIAL		
	Body gasket	Packing	Thrust bearing
A	PTFE	PTFE V-rings	Filled PTFE
B	Graphite	Graphite	Filled PTFE
C	PTFE	PTFE V-rings	Cobalt based alloy
D	Graphite	Graphite	Cobalt based alloy

11. sign	BOLTING MATERIALS			
	Pressure retaining		Packing gland bolting	
	Studs	Nuts	Studs	Nuts
For low emission gland packing design ISO 15848				
E*	B8M	8M	gr. 660	gr. 660
T**	L7M	2HM	B7	2H
For general service gland packing				
D *	B8M	8M	B8M	8M
F **	L7M	2HM	L7M	2HM

* Bolting materials for stainless steel body

** Bolting materials for carbon and low alloy steel body

NOTE: Other options available on application, consult factory

Subject to change without prior notice.

Metso Flow Control Inc.

Europe, Vanha Porvoontie 229, P.O. Box 304, FI-01301 VANTAA, Finland.
Tel. +358 20 483 150. Fax +358 20 483 151

North America, 44 Bowditch Drive, P.O. Box 8044, Shrewsbury, MA 01545, USA.
Tel. +1 508 852 0200. Fax +1 508 852 8172

South America, Av. Independência, 2500- Iporanga, 18087-101, Sorocaba-São Paulo, Brazil.
Tel. +55 15 2102 9700. Fax +55 15 2102 9748/49

Asia Pacific, Haw Par Centre #06-01, 180 Clemenceau Avenue, Singapore 239922.
Tel. +65 6511 1011. Fax +65 6250 0830

China, 11/F, China Youth Plaza, No.19 North Rd of East 3rd Ring Rd, Chaoyang District,
Beijing 100020, China. Tel. +86 10 6566 6600. Fax +86 10 6566 2583.

Middle East, Roundabout 8, Unit AB-07, P.O. Box 17175, Jebel Ali Freezone, Dubai,
United Arab Emirates. Tel. +971 4 883 6974. Fax +971 4 883 6836

www.metso.com/valves

