

**WARNING:**

As the use of the valve is application specific, a number of factors should be taken into account when selecting a valve for a given application. Therefore, some of the situations in which the valves are used are outside the scope of this manual. If you have any questions concerning the use, application or compatibility of the valve with the intended service, contact Metso for more information.

**HOW TO ORDER**

**EXAMPLE:** A 2" ASME Class 300 short design valve (9150) in *Fire-Tite* design (3) with raised-face flanges (31), carbon steel body (22), and 316 stainless steel trim (36), with *Xtreme* seats (XTZ) and molecularly enhanced PTFE stem seals is written: 2" 9150-31-2236XTZ1.

1	2	3	4	5	6	7	8
2"	9150	-	31	22	36	XTZ	1

1	Size		
1/2" to 24"	1/2" (DN 15)	4" (DN 100)	14" (DN 350)
	3/4" (DN 20)	6" (DN 150)	16" (DN 400)
	1" (DN 25)	8" (DN 200)	18" (DN 450)
	1-1/2" (DN 40)	10" (DN 250)	20" (DN 500)
	2" (DN 50)	12" (DN 300)	24" (DN 600)
	3" (DN 80)		

4	End Connection	Size Range
11	Raised Face, Non- <i>Fire-Tite</i> , Non-Trunnion	1/2" – 8" (DN 15 – 200)
31	Raised Face, <i>Fire-Tite</i> , Non-Trunnion	1/2" – 8" (DN 15 – 200)
51	Raised Face, Non- <i>Fire-Tite</i> , Non-Trunnion	8 - 24" (DN200 - 600) Class 150 6 - 24" (DN200 - 600) Class 300
71	Raised Face, <i>Fire-Tite</i> , Trunnion	8 - 24" (DN 200 – 600) Class 150 6 - 24" (DN 150 – 600) Class 300

2	Valve Series & Style	Size Range
9150	Full Bore Class 150	1/2" – 24" (DN 15 – 600)
9180	Full Bore Class 150*	1/2" – 24" (DN 15 – 600)
9300	Full Bore Class 300	1/2" – 24" (DN 15 – 600)
9380	Full Bore Class 300*	1/2" – 24" (DN 15 – 600)
930L	Full Bore Class 300 B16.10 long F-F	8" (DN 200)
938L	Full Bore Class 300 B16.10 long F-F	8" (DN 200)

5	Body Material*
22 <sup>5</sup>	Carbon Steel (WCB)
28	Carbon Steel (LCC)
35	Alloy 20 (CN7M)
36 <sup>5</sup>	Stainless Steel (CF8M)
71 <sup>5</sup>	Monel

\* Metric units on nameplate. Valves larger than 1" (DN 25) are CE marked. Includes static grounding.

\* Other materials available upon request

3	Special Construction	
—	Standard (no entry)	
C	Chlorine	
DBB	Double Block and Bleed	
DT	125 RMS Flange Finish	
O	Oxygen	
Q	PTFE Cavity Filler	
STG	Static Ground (1/2" – 1-1/2" 9000) (Not for <i>Emission-Pak</i> )	
ST	Top Ground (1/2" – 1-1/2" 9000) (Not for <i>Emission-Pak</i> )	
V	High Vacuum	
VC	High Vacuum Certified	
<i>Emission-Pak</i> Coding		
LA	Standard w/o leakoff	1/2"-6" (DN 15 – 150) 9150/9180 1/2"-4" (DN 15 – 100) 9300/9380
LL	Standard w/ leakoff	
LC	Chlorine w/o leakoff	
L1	Chlorine w/ leakoff	
L2	Static Ground w/o leakoff (1/2" – 1-1/2" 9000 ONLY)	
L3	Static Ground w/ leakoff (1/2" – 1-1/2" 9000 ONLY)	
LV	High Vacuum w/o leakoff	
LB	High Vacuum w/ leakoff	
LW	High Vacuum Certified w/o leakoff	
LJ	High Vacuum Certified w/ leakoff	
LX	Oxygen w/o leakoff	
LG	Oxygen w/ leakoff	

6	Ball & Stem Materials*	
35	Alloy 20 (CN7M)	
36 <sup>5</sup>	Stainless Steel (CF8M)	
71 <sup>5</sup>	Monel & K Monel	
73	Hastelloy C	
HB <sup>5</sup>	316 SS & 17-4PH	Required for seat code LGG
00	Same as body	Carbon steel not available

\* Other materials available upon request

7	Seat Material*	Available Sizes
XTZ	<i>Xtreme</i>	All
BTT	PFA	1/2 – 6" (DN 15 – 150)
LGG <sup>†12</sup>	PEEK	1/2 – 4" (DN 15 – 100)
MBT <sup>1</sup>	Barrier Filled PTFE	3 – 10" (DN 80 – 250)
TTT	PTFE	All
UUU <sup>1</sup>	UHMWPE	1/2 – 8" (DN 15 – 200)
ZTT	TFM	1/2" – 10" (DN 15 – 250)

\* Other materials available upon request

† Requires 17-4PH Stem

1 Non-*Fire-Tite* only

2 Not a self relieving seat