













SECURASEAL® METAL-SEATED BALL VALVES

TYPE OF CONNECTION	SIZE OF CONNECTION	MODEL NUMBER OR CLASS	PORT	TYPE	BODY MATERIAL	TRIM MATERIAL	COATINGS	SPECIAL SERVICE
A	B	C	D	E	F	G H	I	J
	 				 	 		
F	1 0	— 1	1	S	1 3	— B C	2	A

EXAMPLE: Flanged, 3", Class 300, full port, Type S design, CF8M body, SS 316 Cr plated ball, Nitronic 50 stem, Stellite scraper seat with PTFE Backup

The figure numbers shown on this key are designed to cover essential features of Velan valves. Please use figure numbers to ensure prompt and accurate processing of your order. A detailed description must accompany any special orders.

A TYPE OF CONNECTION			
B - Butt weld	H - Hub ends		
C - Combination	P - Flanged B16.47 series B (API 605)		
D - DIN flanged	R - Flanged ring joint		
E - Welded stubs	S - Threaded		
F - Flanged B16.5 (B16.47 series A)	W - Socket weld		
B SIZE OF CONNECTION			
Customers have the choice of specifying valve size as part of the valve figure number (B) using the numbers below, or indicating valve size separately.			
EXAMPLES:			
F10-11S13-BC2A (valve size is part of figure number)			
3"F-11S13-BC2A (valve size is shown separately)			
03 - ½" (15 mm)	09 - 2½" (65 mm)	16 - 10" (250 mm)	22 - 20" (500 mm)
04 - ¾" (20 mm)	10 - 3" (80 mm)	18 - 12" (300 mm)	23 - 22" (550 mm)
05 - 1" (25 mm)	12 - 4" (100 mm)	19 - 14" (350 mm)	24 - 24" (600 mm)
07 - 1½" (40 mm)	14 - 6" (150 mm)	20 - 16" (400 mm)	
08 - 2" (50 mm)	15 - 8" (200 mm)	21 - 18" (450 mm)	
C CLASS			
0 - 150	3 - 1500	7 - 900	
1 - 300	4 - 2500	G - TE-600 (Top-body threaded or socket weld)	
2 - 600	5 - 4500	X - Special	
D PORT			
0 - Regular port	4 - Full port, unidirectional		
1 - Full port	5 - Full port, short pattern		
2 - Special or reduced port	6 - Full port, trunnion spring load seat		
3 - Regular, unidirectional			
E TYPE			
L - Split-body, single seat with trunnion and leaf spring	R - Split-body load ring (spiral-wound gasket)		
M - Split-body spring loaded seat graphite seal	S - Split-body metal seat PTFE seal		
N - Split-body with load ring and body seal	T - Top-entry, seat type T (graphite seal Classes 150, 300 & 600)		
P - Split-body flow-thru with load ring and body seal	W - Split-body metal seat graphite seal		
	X - Split-body (solids proof) metal seat graphite seal		

(1) Must specify grade.

(2) Material code "10" F316H/F316 has a minimum carbon content of 0.04 and is to be used if temperatures are over 1000°F (538°C).

Material code "13" forged F316, is not suitable for temperatures above 1000°F (538°C) as it is dual certified (F316/F316L)

F BODY MATERIAL			
02 - A105, WCB	15 - F347, CF8C	27 - LF3/LC3	40 - Titanium Gr. 2/3
03 - F1, WVC1	16 - F304H	28 - F317, CG8M	41 - Titanium Gr. 7
04 - F5, C5	18 - F321	29 - F317L, CG3M	42 - Titanium Gr. 12
05 - F11, WCB	19 - Monel ⁽¹⁾	31 - LCC	43 - Titanium 45 Niobium
06 - F22, WCB	20 - Inconel ⁽¹⁾	32 - F51	44 - Ferralium 255
09 - F9, C12	21 - Hastelloy C ⁽¹⁾	34 - F91, C12A	45 - F55
10 - F316H/F316 ⁽²⁾	22 - Titanium Gr.5	35 - F44, 250 5MO	46 - GS-C25N
11 - F304, CF8	23 - Alloy 20	36 - F321H	
12 - SF304L, CF3	24 - LF1	37 - Incoloy ⁽¹⁾	
13 - F316 ⁽²⁾ , CF8M	25 - LCB	38 - LC1	
14 - F316L, CF3M	26 - LF2	39 - LC2	
G TRIM MATERIAL (ball/seat)			
A - 410	G - Inconel 625	N - Titanium Gr. 7	U - Alloy 20
B - 316	H - Nitronic 60	P - F51	V - Stellite
C - CA6NM	J - Ferralium 255	Q - F55	W - C5
D - 416	K - Titanium Gr. 2/3	R - Carbon	Y - C12
E - 630 (17-4PH)	L - Titanium Gr. 5	S - Hastelloy C ⁽¹⁾	Z - F91/C12A
F - Inconel 718	M - Titanium 45 Niobium	T - Monel ⁽¹⁾	X - Special
H TRIM MATERIAL (stem)			
A - 410	G - Inconel 625	N - Titanium Gr.7	U - Alloy 20
B - 316	H - Nitronic 60	P - F51	Y - Monel K400
C - Nitronic 50	J - Ferralium 255	Q - F55	Z - Monel K500
D - 347H	K - Titanium Gr.2/3	R - 660	X - Special
E - 630 (17-4PH)	L - Titanium Gr.5	S - Hastelloy C	
F - Inconel 718	M - Titanium 45 Niobium	T - 616	
I COATINGS			
A - Uncoated	P - Titanium Dioxide, Inconel 625 bond coat		
B - Chrome Carbide	R - Titanium Dioxide, Titanium bond coat		
C - Chrome Oxide, Titanium bond	X - Chrome Oxide, Inconel 625 bond coat		
D - Chrome Oxide, Tantalum bond	2 - Chrome plated ball/Stellite seat		
E - Chrome Oxide, Nickel/Chrome bond	3 - Ni plated ball, Stellite seat		
F - Chrome Oxide, no bond coat	4 - Tungsten Carbide/Ni ball, Stellite seats		
G - Stellite	5 - Tungsten Carbide/Co ball, Stellite seats		
H - Tungsten Carbide/Nickel	6 - Chrome carb. ball/Stellite seat		
J - Tungsten Carbide/Cobalt	9 - Special		
L - Titanium Dioxide, no bond coat	NOTE: seat and ball same unless noted.		
M - Titanium Dioxide, Tantalum bond			
N - Chrome Oxide, graded Titanium bond			
J SPECIAL SERVICE			
A - Standard	H - Cryogenic	M - Mining	X - Special
B - Block & bleed	I - NACE sour gas	N - Nuclear	
F - Cavity filler	J - Steam jacket	T - Bonnet,	
G - Oxygen	L - Locked scraper seat	double packing	