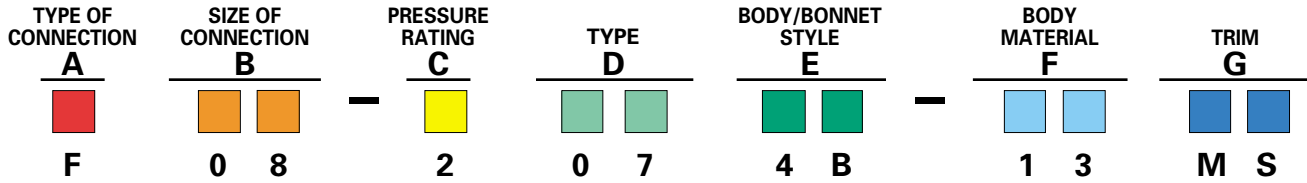


# HOW TO ORDER



Example: is a 2" 600 Class stainless steel bolted bonnet globe valve with MS trim.

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	F - Flanged B16.5 (B16.47 series A)	U - Undrilled flanges	W - Socket weld
C - Combination (socket weld / threaded)	R - Flanged ring joint	X - Butt weld (intermediate class)	S - Threaded
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.			
<b>EXAMPLES:</b> F08-2074B-13MS (valve size is part of figure number) 2"F-2074B-13MS (valve size is shown separately)			
01 - 1/4" (8 mm)	04 - 3/4" (20 mm)	07 - 1 1/2" (40 mm)	10 - 3" (80 mm)
02 - 3/8" (10 mm)	05 - 1" (25 mm)	08 - 2" (50 mm)	11 - 3 1/2" (90 mm)
03 - 1/2" (15 mm)	06 - 1 1/4" (32 mm)	09 - 2 1/2" (65 mm)	12 - 4" (100 mm)
C PRESSURE RATING			
0 - 150	2 - 600 or 800 API 602	3 - 1500	5 - 4500
1 - 300		4 - 2500	6 - 400
		7 - 900	8 - 1690
		9 - 2680	X - Special
D VALVE TYPE			
01 - Flow control	08 - Stop check	17 - IREB gate	
02 - Ball check	09 - Needle	18 - Extended body gate	
03 - Piston check	10 - Continuous blowdown	21 - Boiler blowoff	
05 - Conventional port gate	11 - Swing check	22 - Pressure relief	
06 - Full port gate	15 - Instrument	23 - Double disc gate	
07 - Stop globe		34 - Tilting disc check	
E BODY / BONNET STYLE			
4 - Vertical	A - Special	S - Y-pattern bellows seal (non-rotating stem)	
5 - Angle	B - Bolted bonnet (forged)	T - All welded bellows seal	
6 - Inclined	D - Diaphragm	W - Welded bonnet	
7 - Inclined Y-pattern screwed yoke	E - Extended bonnet (cryogenic)	Y - Bonnetless (rotating stem)	
8 - Elbow down	R - Forged bolted bellows seal	Z - Bonnetless (non-rotating stem)	
F BODY MATERIAL			
02 - A105, WCB	12 - F304L, CF3	20 - Inconel <sup>(†)</sup>	27 - LF3/LC3
04 - F5, C5	13 - F316 <sup>(††)</sup> , CF8M	21 - Hastelloy C <sup>(†)</sup>	31 - LCC
05 - F11, WC6	14 - F316L, CF3M	22 - Titanium Gr.5	32 - F51
06 - F22, WC9	15 - F347, CF8C	23 - Alloy 20	34 - F91, C12A
09 - F9, C12	16 - F304H	24 - LF1	35 - F44, 254 5MO
10 - F316H/F316 <sup>(††)</sup>	18 - F321	25 - LCB	36 - F321H
11 - F304, CF8	19 - Monel M35	26 - LF2	37 - Incoloy <sup>(†)</sup>

(†) Must specify grade.

(††) 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)

G TRIM				API Number	If applicable BELLOWS <sup>(2)</sup>
CODE	WEDGE/DISC SURFACE <sup>(1)</sup>	SEAT SURFACE <sup>(1)</sup>	STEM		
AS	Stellite 6 <sup>(3)</sup>	Stellite 6 <sup>(3)</sup>	321		321
CS	Alloy 20	Stellite 6 <sup>(3)</sup>	Alloy 20		
HC	Hastelloy C	Stellite 6 <sup>(3)</sup>	Hastelloy C		Hastelloy C
HM	HF-Acid Trim	HF-Acid Trim	HF-Acid Trim		
MC	CF8M or 316 w/ CTFE insert <sup>(4)</sup>	Stellite 6 <sup>(3)</sup>	316		
MS	Stellite 6 <sup>(3)</sup>	Stellite 6 <sup>(3)</sup>	316/316L		321
MY	CF8M or 316	Stellite 6 <sup>(3)</sup>	316	12	321
PA	NOREM	NOREM	630		IN 625
TS	Stellite 6 <sup>(3)</sup>	Stellite 6 <sup>(3)</sup>	13 CR (410) <sup>(5)</sup>	5	321
TY	13 CR (410 or CA15)	Stellite 6 <sup>(3)</sup>	13 CR (410)	8	321
XX	Monel	Monel	Monel	9	
XY	Monel	Stellite 6 <sup>(3)</sup>	Monel	11	
NA	13 CR (410 or CA15) HRC 22 max	Stellite 6 <sup>(3)</sup>	13 CR (410) HRC 22 max.	8 <sup>(6)</sup>	
NB		CF8M	Stellite 6 <sup>(3)</sup>	316	12 <sup>(6)</sup>
NC	Monel	Stellite 6 <sup>(3)</sup>	Monel	11 <sup>(6)</sup>	Hastelloy C
NE	Stellite 6 <sup>(3)</sup>	Stellite 6 <sup>(3)</sup>	13 CR (410) HRC 22 max.	5 <sup>(6)</sup>	
NF		Stellite 6 <sup>(3)</sup>	Stellite 6 <sup>(3)</sup>	Same as Body	

Consult Velan's website at [www.velan.com](http://www.velan.com) for a complete list of available trim materials.

- (1) Base material is either the same as the body or solid trim at manufacturer's option.
- (2) Bellows material shown as standard, Inconel can be used in lieu of 321 and Hastelloy C in lieu of Inconel, where design and/or pressure class applicable.
- (3) Stellite 6 or Stellite 21 based on material or application at manufacturer's option.
- (4) Inserts may be in seat or wedge at manufacturer's option.
- (5) 616HT Manufacturer's Std. (F91 and C12A only).
- (6) NACE service valves are supplied with all materials conforming to NACE MR0175. (Including bolting with max. hardness of RC22).

For installation instructions see Service Manual.

For diagnostic troubleshooting visit the Velan website at [www.velan.com](http://www.velan.com).