


HOW TO ORDER

TYPE OF CONNECTION **SIZE OF CONNECTION*** **PRESSURE RATING** **TYPE** **FACE-TO-FACE STYLE** **BODY, KNIFE & STEM MATERIAL** **BODY SEAT MATERIAL**
A **B** **C** **D** **E** **F** **G**

 e.g.: **L** **1 4** — **0** **3 1** **0 C** — **1 3** **S L**
is a wafer-style 6" class 150 metal-seated cast stainless steel knife gate valve.

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

A - Special B - Butt weld F - Flanged L - Lug (wafer)

B SIZE OF CONNECTION*

Customers have the choice of specifying valve size as part of the valve figure ("B") using the numbers below, or indicating valve size separately.

Examples:

L14-0310C-13SL (valve size is part of figure number)

6" L-0310C-13SL (valve size is shown separately)

08 - 2" 13 - 5" 18 - 12" 22 - 20" 28 - 28" 36 - 36"

09 - 2 1/2" 14 - 6" 19 - 14" 23 - 22" 30 - 30" 42 - 42"

10 - 3" 15 - 8" 20 - 16" 24 - 24" 32 - 32" 48 - 48"

12 - 4" 16 - 10" 21 - 18" 26 - 26" 34 - 34" 99 - Special

C PRESSURE RATING

0 - 150 psi A - Special

D TYPE

- 31 - Knife gate, metal seat
- 32 - Knife gate, resilient seat
- 33 - Throttling stock
- 34 - Tilting disc check
- 35 - Horizontal swing check
- 37 - V-port knife gate
- 38 - Knife gate with seat insert
- 99 - Special

E FACE-TO-FACE STYLE

- 0 - TAPPI standard (wafer)
- 1 - ASME standard (flanged)
- 2 - Regular (flanged)
- 3 - Special
- B - Bolted bonnet
- C - Cast
- F - Fabricated

F BODY, KNIFE AND STEM MATERIAL

CODE	BODY-SEAT RING	KNIFE	STEM
01	Special	Special	Special
02	A105, WCB	316	410
11	F304, CF8	304	316 or 304
12	F304L, CF3	304L	316 or 304
13	F316, CF8M	316	316 or 304
14	F316L, CF3M	316L	316 or 304
23	Alloy 20	Alloy 20	316 or Alloy 20
28	F317, CG8M	317L	316 or 317L
29	F317L, CG3M	317L	316 or 317L
35	254 SMO	254 SMO	316 or 254 SMO

G SEAT MATERIAL

CODE	SEAT	CODE	SEAT
SL	Integral	EP	EPDM
BL	Viton	MS	Stellite faced
CL	Black neoprene	PL	Polyurethane
CW	White neoprene	ST	Stellite 6
FL	Teflon	AA	Special

MATERIAL SPECIFICATIONS

ASTM DESIGNATION	CAST				BAR STOCK		PLATE
	316 A351 CF8M	316L A351 CF3M	304 A351 CF8	317L A351 CG3M	316	304	316
COMPOSITION %	Carbon	0.08	0.03	0.08	0.08	0.08	0.08
	Manganese	1.50	1.50	1.50	1.50	2.00	2.00
	Phosphorus	0.04	0.04	0.04	0.04	0.045	0.04
	Sulphur	0.04	0.04	0.04	0.04	0.030	0.03
	Silicon	1.50	1.50	2.00	1.50	1.00	1.00
	Nickel	9.00-12.00	9.00-13.00	8.00-11.00	11.5-13.5	10-14	8.00-10.50
	Chromium	18.00-21.00	17.00-21.00	18.0-21.00	20.5-23.5	1-18	18.00-20.00
	Molybdenum	2.00-3.00	2.00-3.00	—	3.00-4.00	2.00-3.00	—
Heat Treatment	Solution anneal						
Tensile ksi min.	70	70	70	75	75	75	75
Yield ksi min.	30	30	30	35	30	30	30
Elong. % min.	30	30	35	25	30	30	40
R. area % min.	—	—	—	36	40	40	—
Hardness HB max.	—	187	—	185	187	187	217
Parts	Body, bonnet, yoke				Stem, post		Knife