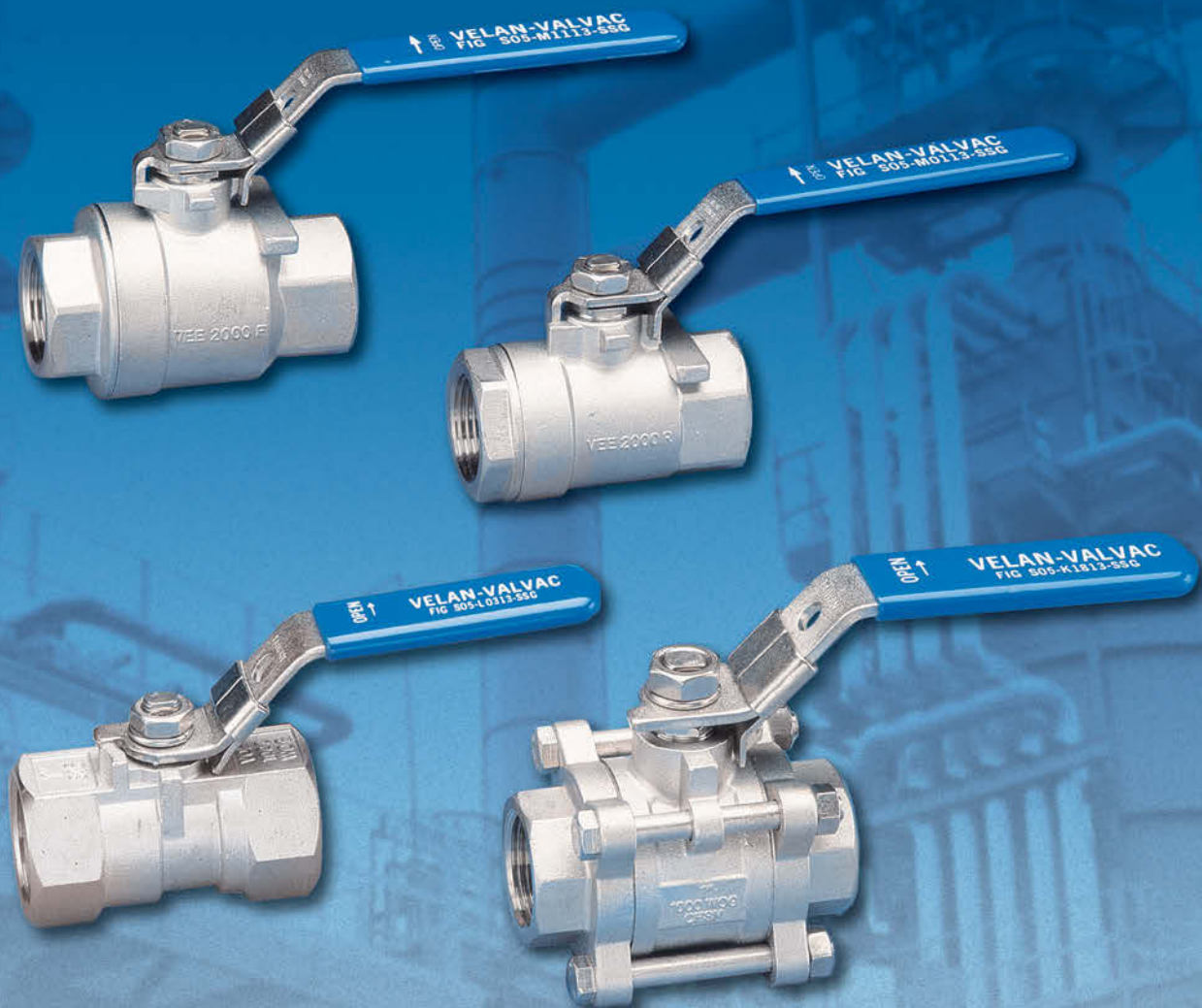


Valvac

General purpose ball valves



Pressure rating: up to 2000 psi
Sizes: NPS ¼–2 (DN 8–50)

VELAN

VELAN'S PROFILE

VELAN AT A GLANCE

History

- Founded in 1950

Sales

- Over \$500 million

People

- Over 2,000 employees

Product line

A world-leading range of valves across all major industrial applications:

- Cast steel gate, globe, check, and ball valves
- Forged steel gate, globe, check, and ball valves
- Triple-offset butterfly valves
- Knife gate valves
- Severe service valves
- Bellows seal valves
- Steam traps

Quality

All major certifications and approvals

- ASME N stamp and NPT for nuclear valves (since 1970)
- ISO 9001 (since 1991)
Currently certified to ISO 9001:2008
- PED
- GOST (TR and RTN)
- API 6A and API 6D
- TA-Luft
- Quality programs fully compliant with ISO-9001, NCA 4000, ASME NQA-1 and 10 CFR 50 Appendix B, surveyed by ASME and audited by NUPIC, Northrop Grumman Newport News, DCMA, utilities, architect/ engineers, and other organizations from around the world

Headquartered in Montreal, Velan has several international subsidiaries.

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Montreal, QC H4T 1G2 Canada

Tel: +1 514 748 7743

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Check our website for more specific contact information.

www.velan.com



Velan is one of the world's leading manufacturers of cast and forged steel gate, globe, check, ball, triple-offset, knife gate, highly engineered severe service valves, and steam traps offering superior performance across all major industrial applications including: fossil, nuclear, and cogeneration power; oil and gas; refining and petrochemicals; chemicals and pharmaceutical; LNG and cryogenics; marine; HVAC; mining; water and wastewater; pulp and paper; and subsea. The company also supplies actuators and integrated control packages.

Founded in 1950, Velan has earned a reputation for product excellence and innovation by bringing to the market superior products with special emphasis on quality, safety, ease of operation, and long service life. Velan valves have an extremely broad installation base and are approved by major companies worldwide.

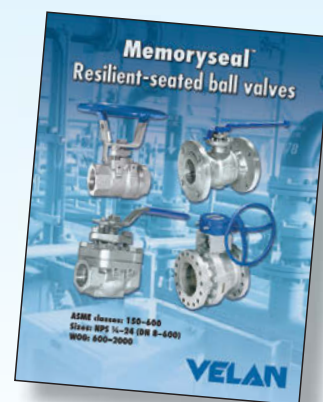
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The Velan Valvac line is a contractor-grade ball valve intended for general services such as utilities and WOG rated requirements. Should you have requirements for process applications please refer to our Memoryseal® catalog.

Our Memoryseal® design is ideally suited for process applications due to superior features such as E20 packing chambers, fire test to API 607/ ISO 10497, pre-drilled mounting pads for actuation, and our patented Memoryseal® flexible seats.



VELAN'S GLOBAL NETWORK

Head office



Montreal, Canada
Velan Inc.

- 17 production facilities
- 5 plants in North America
- 6 plants in Europe
- 6 plants in Asia
- 5 stocking and distribution centers
- Hundreds of distributors worldwide
- Over 60 service shops worldwide

Manufacturing plants

North America



Montreal, Canada
Velan Inc., Plant 1



Montreal, Canada
Velan Inc., Plant 2 and 7



Granby, Canada
Velan Inc., Plant 4 and 6



Montreal, Canada
Velan Inc., Plant 5



Williston, VT, U.S.A.
Velan Valve Corp., Plant 3



Europe



Lyon, France
Velan S.A.S.



Mennecy, France
Segault S.A.



Leicester, UK
Velan Valves Ltd.



Lisbon, Portugal
Velan Válvulas Industriais, Lda.



Lucca, Italy
Velan ABV S.p.A., Plant 1



Lucca, Italy
Velan ABV S.p.A., Plant 2

Asia



Ansan City, South Korea
Velan Ltd., Plant 1



Ansan City, South Korea
Velan Ltd., Plant 2



Ansan City, South Korea
Velan Ltd., Plant 3



Taichung, Taiwan
Velan Valvac Mfg. Co., Ltd.



Suzhou, China
Velan Valve (Suzhou) Co., Ltd.



Coimbatore, India
Velan Valves India Pvt. Ltd.

Distribution centers



Granby, Canada
VelCAN



Benicia, CA, U.S.A.
VelCAL



Marietta, GA, U.S.A.
VelEAST



Houston, TX, U.S.A.
VelTEX



Willich, Germany
Velan GmbH

 – ASME N-stamp accredited manufacturer

VELAN VALVAC VOP-1000

ONE-PIECE REDUCED PORT GENERAL PURPOSE BALL VALVE NPS ¼–2 (DN 8–50)

CARBON OR STAINLESS STEEL BODY, RPTFE SEATS

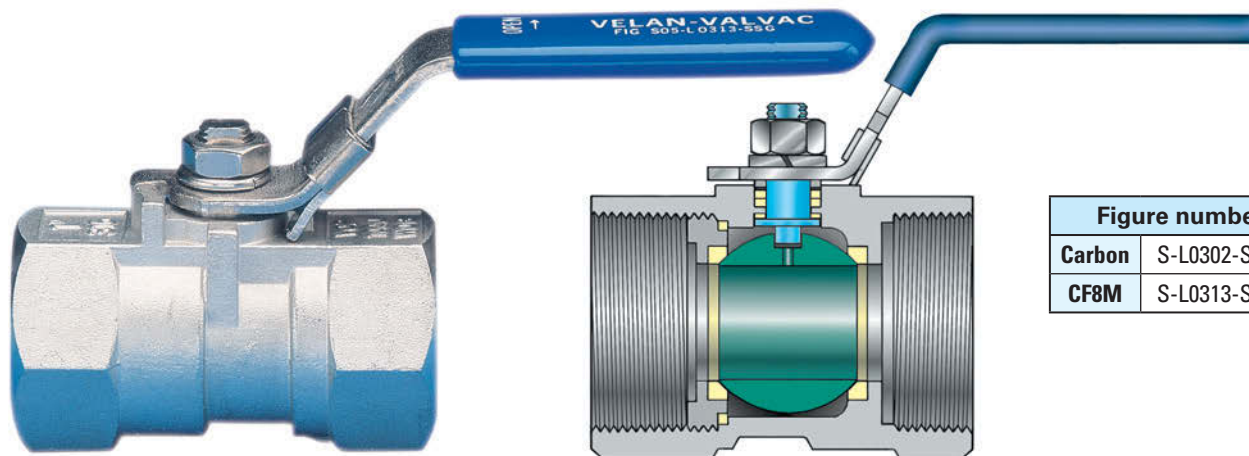


Figure number	
Carbon	S-L0302-SSGA
CF8M	S-L0313-SSGA

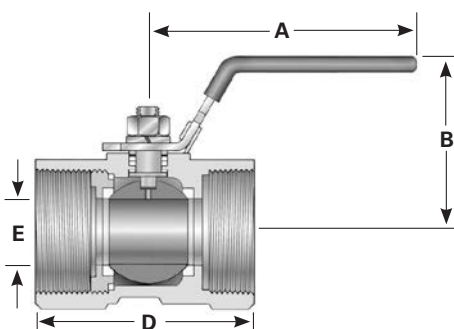
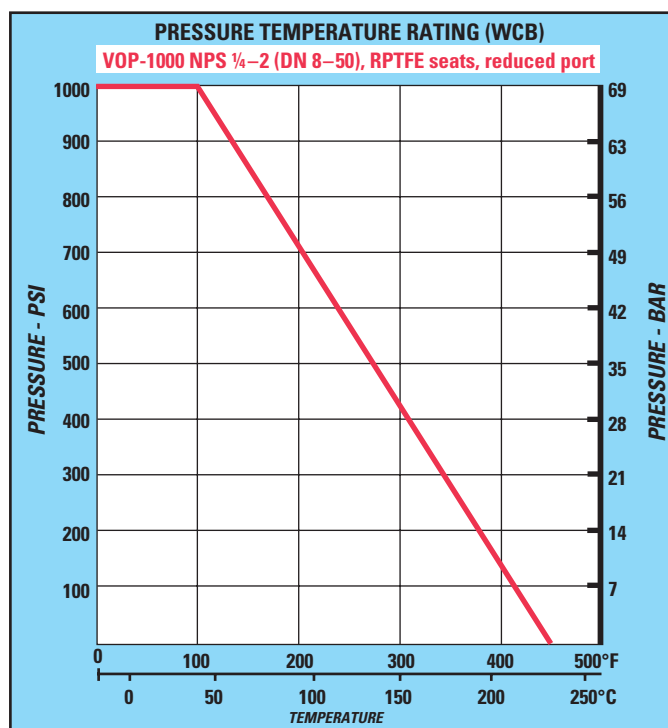
STANDARD MATERIALS

PART	STAINLESS STEEL	CARBON STEEL ⁽¹⁾
Body	CF8M	WCB
Seat	RPTFE	RPTFE
Ball	SS 316	SS 316
Stem	SS 316	SS 316
Seat retainer	SS 316	Carbon steel
Thrust washer	RPTFE	RPTFE
Body seal	RPTFE	RPTFE
Stem packing	PTFE	PTFE
Stem washer	SS 304	SS 304
Stem nut	SS 304	SS 304
Gland follower	SS 304	SS 304
Handle / latch ⁽²⁾	SS 304	SS 304

(1) NPS ¼ and ⅜ (DN 8 and 10) sizes available only in SS body.
(2) Latch lock available only on NPS ½–2 (DN 15–50) sizes.

DIMENSIONS AND WEIGHTS

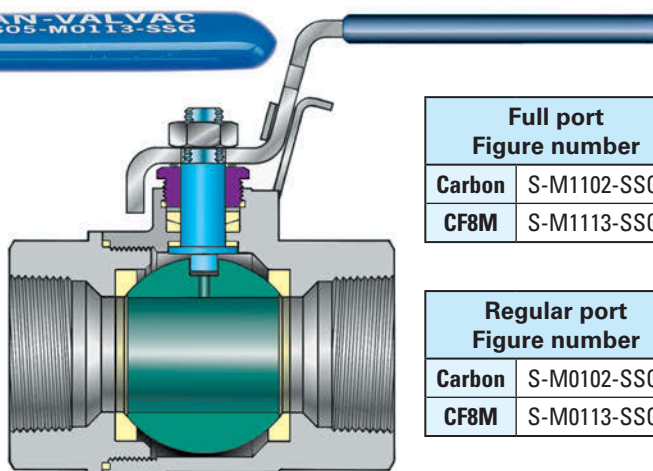
SIZE NPS DN	VOP-1000		MANUAL		Cv	WEIGHT lb/kg
	A	B	D	E		
¼ 8	2.64 67	2.28 58	1.73 44	0.23 6	2.5	0.18 0.08
⅜ 10	3.19 81	2.28 58	1.91 49	0.33 8	3.5	0.24 0.11
½ 15	3.80 97	2.50 64	2.36 60	0.35 9	4.8	0.44 0.20
¾ 20	3.80 97	2.67 68	2.40 61	0.49 12	9.5	0.57 0.26
1 25	4.73 120	3.33 85	2.91 74	0.63 16	14	0.93 0.42
1¼ 32	4.73 120	3.55 90	3.07 78	0.79 20	33	1.48 0.67
1½ 40	5.97 152	3.88 99	3.37 86	0.98 25	45	2.00 0.91
2 50	5.97 152	4.29 109	4.02 102	1.26 32	58	3.31 1.50



VELAN VALVAC VEE-2000

FULL AND REGULAR PORT END-ENTRY GENERAL PURPOSE BALL VALVE NPS ¼–2 (DN 8–50)

CARBON OR STAINLESS STEEL BODY, RPTFE SEATS



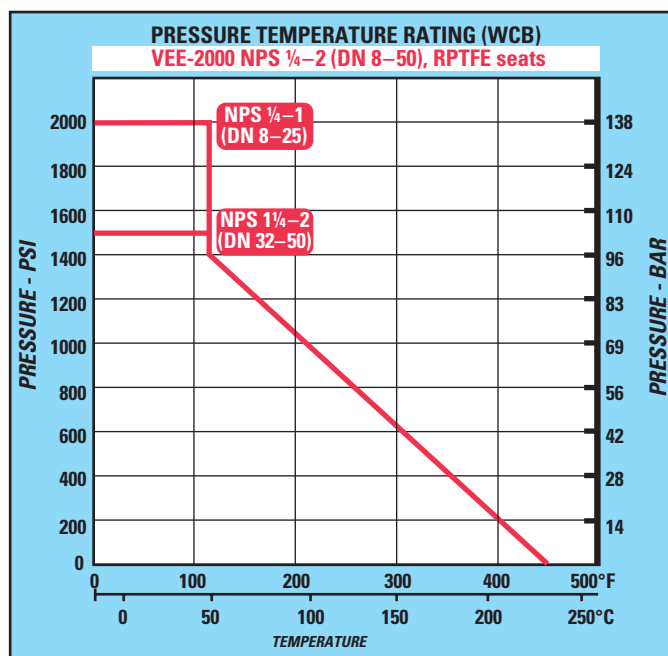
Full port Figure number	
Carbon	S-M1102-SSGA
CF8M	S-M1113-SSGA

Regular port Figure number	
Carbon	S-M0102-SSGA
CF8M	S-M0113-SSGA

STANDARD MATERIALS

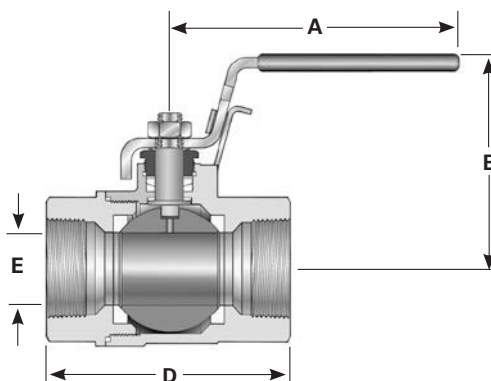
PART	STAINLESS STEEL	CARBON STEEL ⁽¹⁾
Body	CF8M	WCB
End cap	CF8M	WCB
Seat	RPTFE	RPTFE
Ball	SS 316	SS 316
Stem	SS 316	SS 316
Thrust washer	RPTFE	RPTFE
Body seal	PTFE	PTFE
Packing ring	PTFE or RPTFE	PTFE or RPTFE
Packing nut	SS 304	SS 304
Handle	SS 304	SS 304
Handle / latch	SS 304	SS 304
Handle nut	SS 304	SS 304

(1) NPS ¼ and ⅜ (DN 8 and 10) sizes available only in SS body.



DIMENSIONS AND WEIGHTS

SIZE NPS DN	VEE-2000								Cv		WEIGHT lb/kg	
	MANUAL											
	A		B		D		E		Full port	Reg. port	Full port	Reg. port
Full port	Reg. port	Full port	Reg. port	Full port	Reg. port	Full port	Reg. port					
¼ 8	4.57 116	4.57 116	2.10 53	2.10 53	2.20 56	2.20 56	0.44 11	0.44 11	8	8	0.66 0.30	0.66 0.30
⅜ 10	4.57 116	4.57 116	2.10 53	2.10 53	2.20 56	2.20 56	0.44 11	0.44 11	10	10	0.62 0.28	0.62 0.28
½ 15	4.57 116	4.57 116	2.09 53	2.10 53	2.39 61	2.35 60	0.50 13	0.44 11	13	12	0.62 0.28	0.62 0.28
¾ 20	5.10 130	5.10 130	2.43 62	2.29 58	3.00 76	2.83 72	0.81 21	0.62 16	50	15	1.41 0.64	1.10 0.50
1 25	5.10 130	5.10 130	2.83 72	2.99 76	3.56 90	3.31 84	1.00 25	0.81 21	93	35	2.27 1.03	1.70 0.77
1¼ 32	8.09 205	8.09 205	3.32 84	3.14 80	3.99 101	4.05 103	1.25 32	1.00 25	170	64	3.73 1.69	3.53 1.60
1½ 40	8.09 205	8.09 205	3.51 89	3.32 84	4.42 112	4.33 110	1.50 38	1.25 32	250	87	4.87 2.21	4.50 2.04
2 50	8.09 205	8.09 205	3.84 98	3.51 89	4.92 125	5.42 138	2.00 51	1.50 38	450	112	7.59 3.44	6.22 2.82



VELAN VALVAC V3P-1000

THREE-PIECE FULL PORT GENERAL PURPOSE BALL VALVE

NPS ¼–2 (DN 8–50)

CARBON OR STAINLESS STEEL BODY, RPTFE SEATS, THREADED OR WELD ENDS

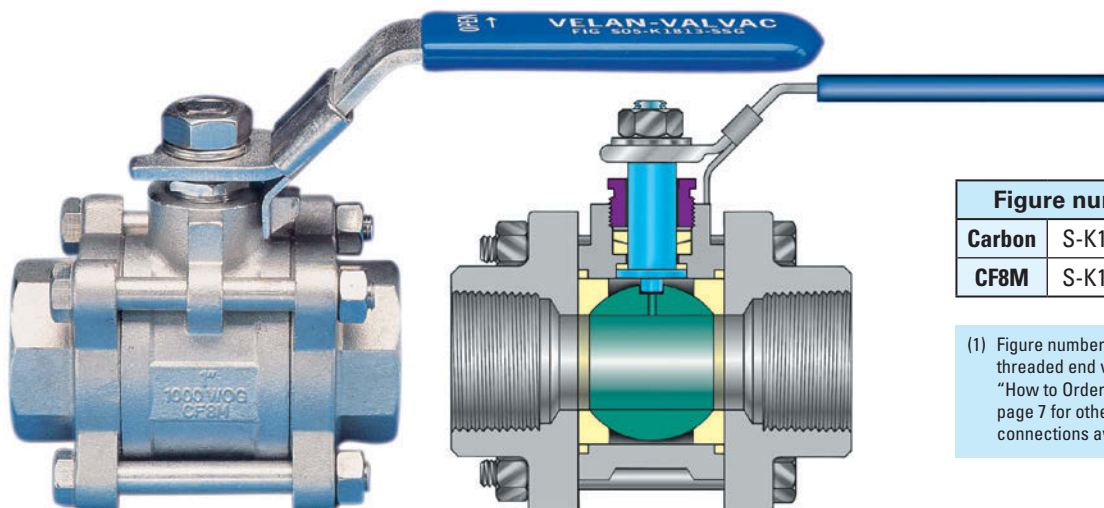


Figure number⁽¹⁾

Carbon	S-K1802-SSGA
CF8M	S-K1813-SSGA

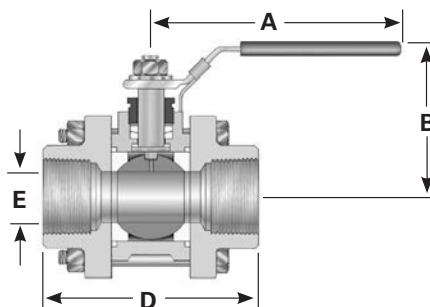
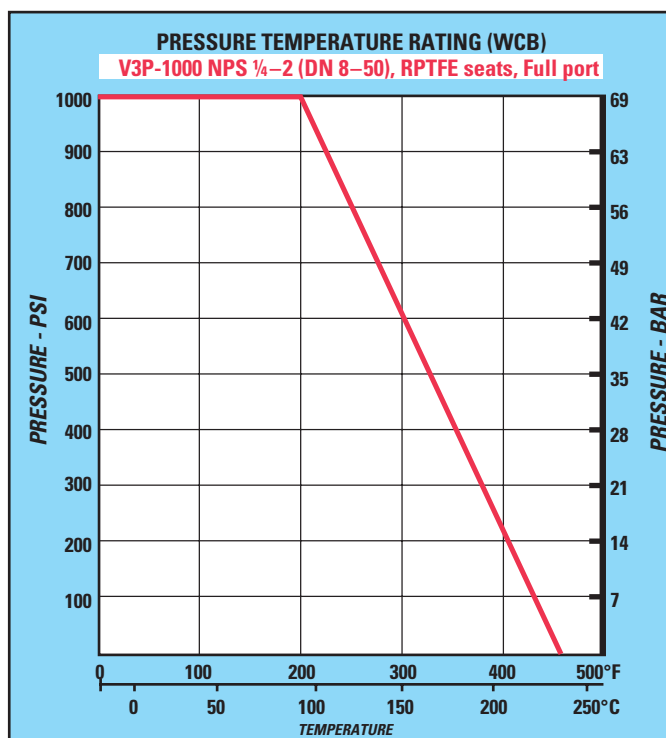
(1) Figure number shown is for threaded end valves, see "How to Order Chart" on page 7 for other types of connections available.

STANDARD MATERIALS

PART	STAINLESS STEEL	CARBON STEEL
Body	CF8M	WCB
End cap	CF8M	WCB
Seat	RPTFE	RPTFE
Ball	SS 316	SS 316
Stem	SS 316	SS 316
Stem packing	RPTFE	RPTFE
Thrust washer	RPTFE	RPTFE
Body Seal	PTFE	PTFE
Body nuts & bolts	SS 304	B7
Packing nut	SS 304	SS 304
Handle nut	SS 304	SS 304
Handle/latch	SS 304	SS 304
Packing washer	SS 304	SS 304












DIMENSIONS AND WEIGHTS

SIZE NPS DN	V3P-1000				Cv	WEIGHT lb/kg
	A	B	D	E		
¼ 8	4.22 107	2.28 58	2.50 64	0.42 11	8	0.99 0.45
¾ 10	4.22 107	2.28 58	2.50 64	0.50 13	10	0.99 0.45
½ 15	5.03 128	2.50 64	2.90 74	0.55 14	13	1.46 0.66
¾ 20	5.03 128	2.67 68	3.23 82	0.80 20	50	1.98 0.90
1 25	5.68 144	3.33 85	3.58 91	1.00 25	93	3.09 1.40
1¼ 32	5.68 144	3.55 90	4.37 111	1.25 32	170	4.85 2.20
1½ 40	8.22 209	3.88 99	4.84 123	1.50 38	250	6.84 3.10
2 50	8.22 209	4.29 109	4.71 120	2.00 51	450	10.14 4.60



VELAN VALVAC GENERAL PURPOSE BALL VALVES

The figure numbers shown on this key cover essential features of Velan Valvac valves.
Please use these figure numbers to ensure prompt and accurate processing of your order.

Type of connection	Size of connection	Model number/Class	Port	Type	Body material	Trim	Seat material	Special service	
A	B	C	D	E	F	G	H	I	
	 	—			 	—	 		
S	0 5	—	L	0 3	0 2	—	S S	G	A

Example: NPS 1 (DN 25), threaded, VOP-1000, regular port valve in carbon steel with stainless steel trim, and glass-reinforced PTFE seat for standard service.

A	TYPE OF CONNECTION
B	Butt weld
S	Thread NPT
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. Sizes shown in NPS (DN)	
EXAMPLES: B16-3054P-02TS (valve size is part of figure number) NPS 10 B-3054P-02TS (valve size is shown separately)	
01	1/4 (8)
02	3/8 (10)
03	1/2 (15)
04	3/4 (20)
05	1 (25)
06	1-1/4 (32)
07	1-1/2 (40)
08	2 (50)

C	MODEL NUMBER / CLASS
Model number	Class
K	V3P-1000
L	VOP-1000
M	VEE-2000

D	PORT
0	Regular port
1	Full port

E	TYPE
1	End-entry (two-piece)
3	One-piece/Unibody
8	Three-piece valve (bolted)

F	BODY MATERIAL
02	A105, WCB
13	CF8M

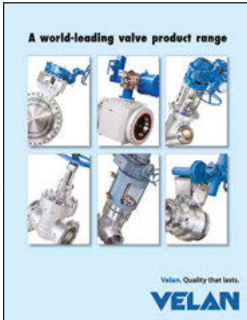
G	TRIM
Code	Ball
SS	316
Stem	316

H	SEAT MATERIAL
G	Glass-reinforced PTFE

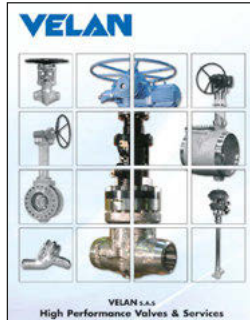
I	SPECIAL SERVICE
A	Standard

The most comprehensive line of industrial forged and cast steel gate, globe, check, ball, butterfly, and knife gate valves and steam traps.

ASME pressure classes 150–4500 in carbon, alloy, and stainless steel



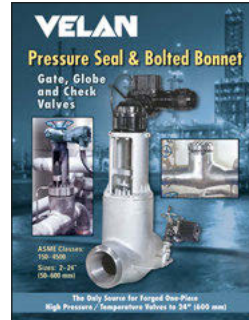
BRO-FLB



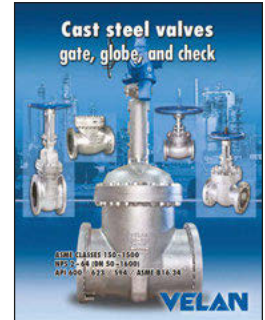
SAS-FLB



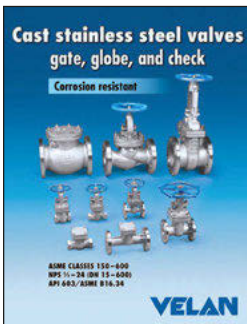
ABV-FLB



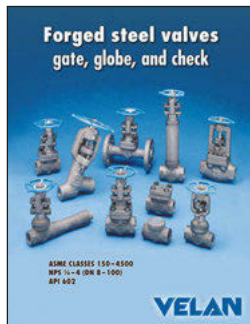
VEL-PS



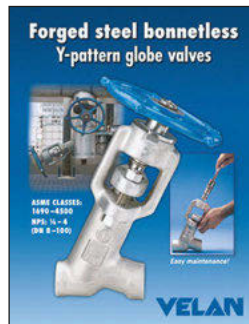
CAT-CSV



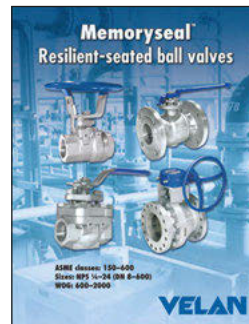
CAT-CSSV



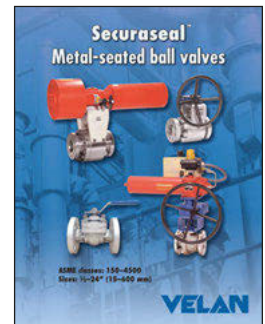
CAT-SFV



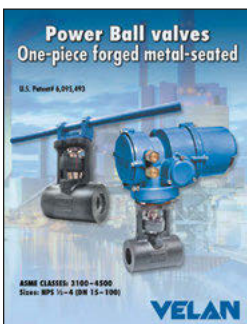
CAT-BG



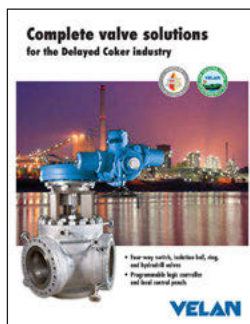
CAT-BV



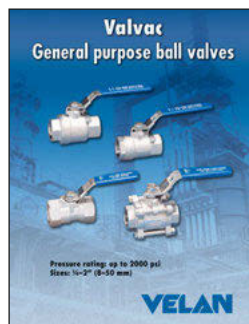
VEL-MS



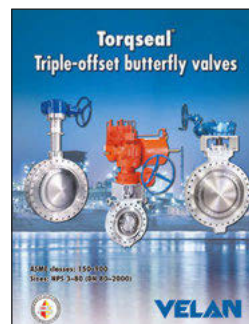
CAT-PBV



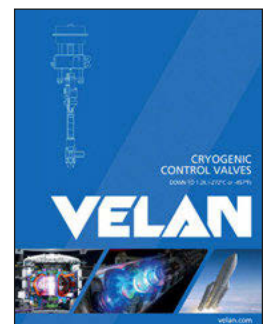
BRO-CBV



CAT-GPBV



CAT-BF



SAS-CCV

⚠ WARNING: The use of chainwheels may present a risk of serious injury to personnel or damage to property if the chainwheel becomes detached and falls. The end user and purchaser shall be responsible to ensure the correct installation, operation, maintenance and safety provisions related to chainwheels. Velan does not assume any liability whatsoever for the safe application and operation of chainwheels supplied by parties other than Velan or for chainwheels that are used without a suitably designed safety device.

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