

VF2 Needle valves with integral bonnet

Its forged body and its integral bonnet construction provide great resistance and reduce possibilities of leak points. Also its stainless steel stem offers accurate flow control combined with a leak-tight shut off. A Peek or Acetal resin obturator is recommended for lower operating torque in service conditions where this can be allowed. This valves are used in instrumentation air lines, chromatography, panels and many other applications.



Characteristics

- Block and regulation stem. With soft tip option.
- Different materials & packings.
- Straight or angle pattern.
- Threaded or ABALOK tubing connections.
- Panel mountable.
- Adjustable packing gland to obtain a better life cycle.

Specifications

Maximum working pressure @ 70°F:

Carbon steel / S.Steel	5000 PSI
Brass	3000 PSI

Maximum temperatures:

PTFE packing	500 °F
Graphoil packing	940 °F (*)
Fluorocarbon packing	200 °F
Soft tip stem	200 °F

Pneumatic test:

Every Integral bonnet valve is factory tested with nitrogen at 1000 psi. Leak points in body, seat and packing are not accepted. Packing is adjusted for zero leak at this pressure. Packing nut must be tightened to achieve higher pressures .

(*) In high temperature applications, the plastic handle is replaced by a metallic one.

Standard materials (*)

Version	Body & Bonnet	Stem	Packing
Carbon steel	Carbon steel	AISI 420	PTFE / Graphoil / Fluorocarbon
Stainless steel	AISI 316	AISI 316	
Brass	Brass	AISI 316	

Flow capacity:

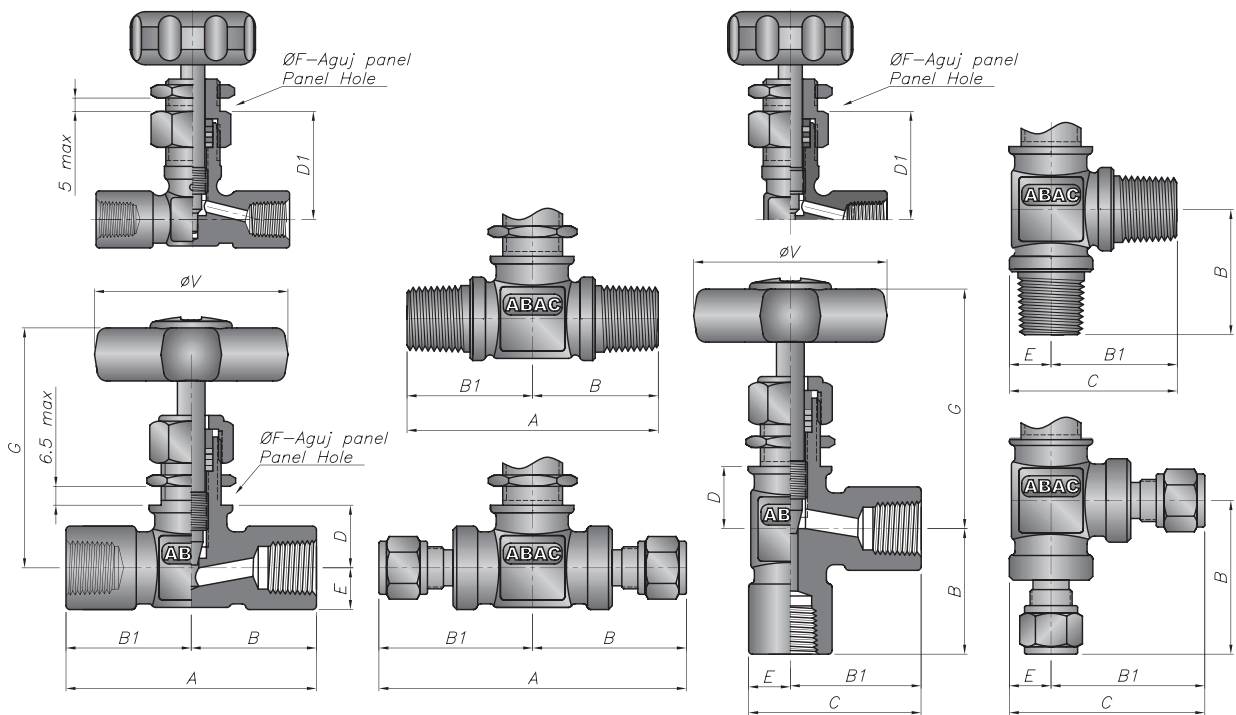
Orifice [mm]	Maximum CV coefficient
2.5	0.10
4.0	0.35
5.0	0.45

Ordering information:

VF2 25 C G -

Model	Options
Connections (see dimensions table)	OX : oxygen applications V1 : non rotating point V4 : Soft tip stem
Angle configuration option Add letter A	Packing T : PTFE G : Graphoil V : Fluorocarbon
	Material C : Carbon steel I : Stainless steel B : Brass

Installment required measures



Connections		Model	Orifice [mm]	Dimensions [mm]									
Inlet	Outlet			A	B	B1	C	D	D1	E	F	G	ØV
1/8 NPT F	1/8 NPT F	VF212	4	48	24	24	32		28	8	15	60	33
1/8 NPT M	1/8 NPT M	VF212 M	4	50	25	25	33		28	8	15	60	33
1/8 NPT M	1/8 NPT F	VF212 M 12	4	50	25	25	33		28	8	15	60	33
1/8 NPT M	1/8 Tube	VF212 M 12 T	2.5	48	25	23	31		28	8	15	60	33
1/8 Tube	1/8 Tube	VF212 T	2.5	46	23	23	31		28	8	15	60	33
1/4 NPT F	1/4 NPT F	VF225	5	63	32	32	43	17		11	17	63	50
1/4 NPT M	1/4 NPT M	VF225 M	4	50	25	25	33		28	8	15	60	33
1/4 NPT M	1/4 NPT F	VF225 M 25	5	63	32	32	43	17		11	17	63	50
1/4 NPT M	1/4 Tube	VF225 M 25 T	4	59	25	34	42		28	8	15	60	33
1/4 Tube	1/4 Tube	VF225 T	4	68	34	34	42		28	8	15	60	33
3/8 NPT M	3/8 NPT M	VF238 M	5	63	32	32	43	17		11	17	63	50
3/8 NPT M	3/8 Tube	VF238 M 38 T	5	71	31	40	51	17		11	17	63	50
3/8 Tube	3/8 Tube	VF238 T	5	81	41	41	52	17		11	17	63	50