NGGUIG VAIVGS

Low Pressure

Bottle Valve Series

Pressures to 10,000 psi (690 bar)

Since 1945 Autoclave Engineers has designed and built premium quality valves, fittings and tubing. Autoclave Engineers has long been established as the world leader in high-pressure fluid handling components for the chemical/petrochemical, research, and oil and gas industries. Bottle valves are used on sample bottles and cylinders for remote sampling in the oil industry.

Bottle Valve Features:

- BTV Series valve design provides male inlet connections from 1/8" to 1/2" NPT.
- Outlet connections in NPT or tube to 1/4".
- Rising stem/barstock body design.
- Non-rotating stem prevents stem/seat galling.
- Metal-to-metal seating achieves bubble-tight shutoff, longer stem/seat life in abrasive flow, greater durability for repeated on/off cycles and excellent corrosion resistance.
- PTFE (Teflon) encapsulated packing provides dependable stem and body sealing.
- Stem sleeve and packing gland materials have been selected to achieve extended thread cycle life and reduced handle torque.
- Available with Vee stem tips.
- Available in five body patterns.

Autoclave valves are complemented by a complete line of low pressure fittings, tubing, check valves and line filters. The Bottle Valve Series use Autoclave's SpeedBite connection. This single-ferrule compression sleeve connection delivers fast, easy make-up and reliable bubble-tight performance in liquid or gas service.

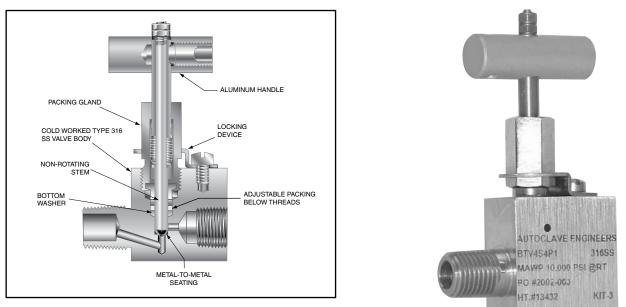




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Valve Series - BTV Series

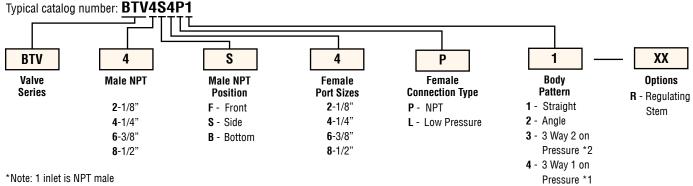
Pressures to 10,000 psi (690 bar)



To ensure proper fit use Autoclave tubing

Ordering Procedure

For complete information on available stem types, optional connections and additional valve options, see Needle Valve Options section or contact your Sales Representative. BTV Series valves are furnished complete with connection components, unless otherwise specified.



2 inlets are NPT male and 1 female connection

Valve Options

Standard Autoclave valves with Teflon packing may be operated to 450°F (232°C).

R regulating stem

Autoclave Engineers does not recommend compression sleeve connections below 0°F (-17.8°C) or above 650°F(343°C). For additional valve options, contact your Sales Representative.

Valve Maintenance

Repair Kits:	add "R" to the front of valve catalog number for proper repair kit. (Example: RBTV4F2L1)
Valve Bodies:	Valve bodies are available. Order using the eight (8) digit part number found on the valve drawing or contact your Sales Representative for information.

Consult your Autoclave representative for pricing on repair kits and valve bodies. Refer to the Tools, Installation, Operation and Maintenance section for proper maintenance procedures.

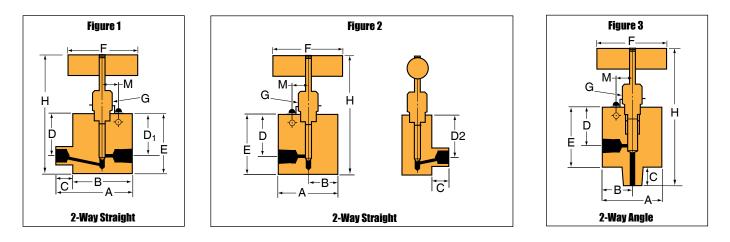
Cotolog	Storm	Pipe/	Orifice					Dime	nsions -	inches (mm)					Value
Catalog Number	Stem Type	Tube	Diameter	A	В	C	D	D ₁	D2	E	F	G	H	М	Block Thickness	Valve Pattern

2-Way Straight

BTV4S4P1	VEE	1/4	0.094	2.00	1.31	0.69	0.82	0.82		1.28	1.50	0.61	3.41	0.56	0.75	See
Side Inlet		(6.35)	(2.39)	(50.80)	(33.27)	(17.53)	(20.83)	(20.83)		(32.51)	(38.10)	(15.49)	(86.61)	(14.22)	(19.05)	Figure 1
BTV4F4L1	VEE	1/8	0.094	1.50	0.75	0.63	0.81		0.88	1.38	1.50	0.61	3.49	0.56	0.63	See
Front Inlet		(3.18)	(2.39)	(38.10)	(19.05)	(15.88)	(20.57)		(22.35)	(35.05)	(38.10)	(15.49)	(88.65)	(14.22)	(16.00)	Figure 2

2-Way Angle

	-3-0														
BTV4B2L2	VEE	1/8	0.094	2.00	1.00	0.81	1.19		1.63	1.50	0.75	4.75	0.62	0.75	See
Bottom Inlet		(3.18)	(2.39)	(50.80)	(25.40)	(20.57)	(30.23)		(41.40)	(38.10)	(19.05)	(120.65)	(15.75)	(19.05)	Figure 3
BTV4B4P2	VEE	1/4	0.203	1.50	1.00	1.25	1.19		1.63	3.00	0.75	5.30	0.62	0.75	See
Bottom Inlet		(6.35)	(5.16)	(38.10)	(25.40)	(31.75)	(30.23)		(41.40)	(76.20)	(19.05)	(134.62)	(15.75)	(19.05)	Figure 3



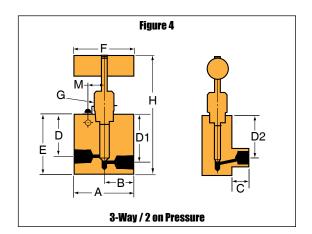
Catalog Stem Pipe/ Orifice	Dimensions - inches (mm)												
Number Type Tube Diameter A	В	C	D	D ₁	D ₂	E	F	G	Н	м	Block Thickness	Valve Pattern	

3-Way/2 on Pressure

BTV4F2L3	VEE	1/8	0.094	1.50	0.75	0.63	0.81	1.06	0.88	1.38	1.50	0.75	3.49	0.50	0.75	See
Front Inlet		(3.18)	(2.39)	(38.10)	(19.05)	(15.88)	(20.57)	(26.92)	(22.35)	(34.93)	(38.10)	(19.05)	(88.65)	(12.70)	(19.05)	Figure 4
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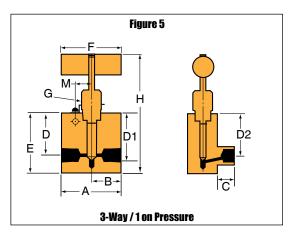
3-Way/1 on Pressure

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BTV4F2L4	VEE	1/8	0.094	1.50	.75	0.63	0.81	0.81	0.88	1.38	1.50	0.75	3.49	0.50	0.75	See
Front Inlet		(3.18)	(2.39)	(38.10)	(19.05)	(15.88)	(20.57)	(20.57)	(22.35)	(34.93)	(38.10)	(19.05)	(86.66)	(12.70)	(19.05)	Figure 5



G - Packing gland mounting hole drill size

* H Dimension is with stem in closed position.



For prompt service, Autoclave stocks select products. Consult factory. All dimensions for reference only and subject to change.

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Industrial Estate Whitemill-Wexford Republic of Ireland PH: 353 53 914 1566 FAX: 353 53 914 1582 e-mail: ste_sales@snap-tite.com www.snap-tite.com



Fluid Components Division of Snap-tite, Inc.

8325 Hessinger Drive Erie, Pennsylvania 16509-4679 USA PH: 814-860-5700 FAX: 814-860-5811 e-mail: ae_sales@snap-tite.com www.autoclave.com

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