#### **Low Pressure**

# **Bottle Valve Series**

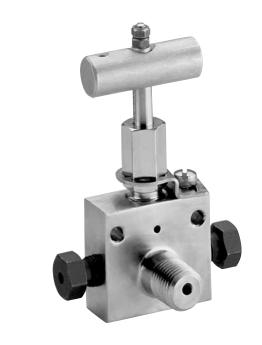
Pressures to 15,000 psi (1034 bar)

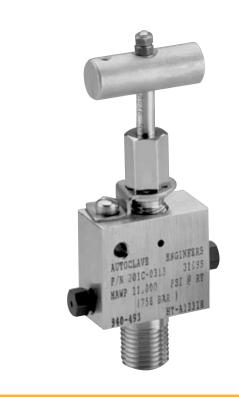
Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. Parker Autoclave Engineers has long been established as the world leader in high-pressure fluid handling components for the chemical/petrochemical, research, and oil and gas industries. Bottle valves 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 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.

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



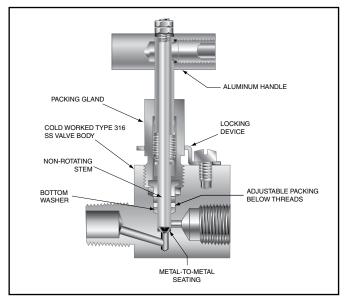


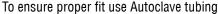




# Valve Series - BTV Series

# **Pressures to 15,000 psi (1034 bar)**

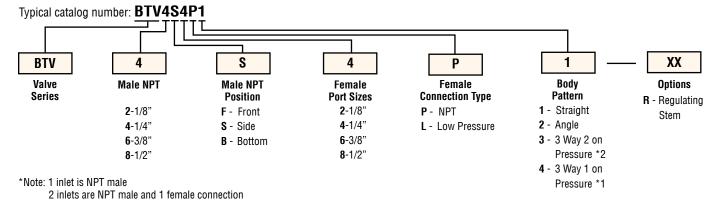






## **Ordering Procedure**

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.



### **Valve Options**

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

R regulating stem

Parker 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.

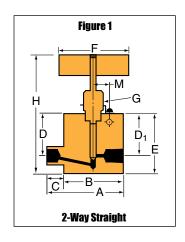
(Example: RBTV4F2L1)

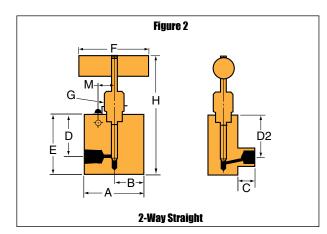
Valve Bodies: Valve bodies are available. Order using the eight (8)

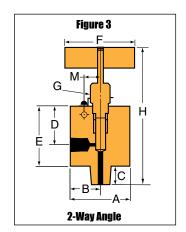
digit part number found on the valve drawing or contact your Sales Representative for information.

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

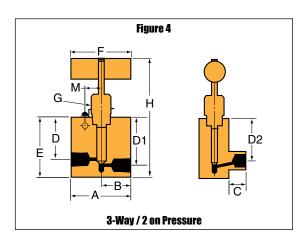
-	Ctom		Orifice Diameter	Dimensions - inches (mm)												W-1 -
	1 1			A	В	С	D	D <sub>1</sub>	D <sub>2</sub>	E	F	G	Н	М	Block Thickness	Valve Pattern
2-Way Si	traig	ht														
BTV4S4P1	VEE	1/4	0.094	2.00	1.31	0.69	0.82	0.82		1.28	1.50	0.61	3.41	0.56	0.75	See
Side Inlet		(6.35)	(2.39)	(50.80)	(33.27)	(17.53)	(20.83)	(20.83)		(32.51)	(38.10)	(15.49)	(86.61)	(14.22)	(19.05)	Figure 1
BTV4F2L1	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 A	ngle															
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

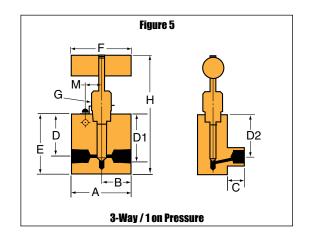






Catalog Ster		n Pipe/	Orifice	Dimensions - inches (mm)												Volve
• •	1 1			l _	В	С	D	D <sub>1</sub>	D <sub>2</sub>	E	F	G	Н	M	Block Thickness	Valve Pattern
3-Way/2	on P	ressu	re													
BTV4F2L3	VEE	1/8	0.094	1.50	0.75	0.63	0.81	1.06	0.88	1.38	1.50	0.75	3.49	0.50	0.75	See
Front Inlet		(3.18)	(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
3-Way/1	on Pr	essu	re													
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





For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

G - Packing gland mounting hole drill size

<sup>\*</sup> H Dimension is with stem in closed position.

#### WARNING

#### FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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**Caution!** Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Caution! Parker Autoclave Engineers Valves, Fittings and Tools are not designed to work with common commercial instrument tubing and will only work with tubing built to Parker Autoclave Engineers AES Specifications. Failure to do so will void warranty.

ISO-9001 Certified