

Needle Valves - Bottle Valve Seri

Low Pressure

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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 sleeveconnection delivers fast, easy make-up and reliable bubble-tight performance in liquid or gas service.





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Value Series - **BTV Series**

Pressures to 15,000 psi (1034 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.



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All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.



Catalan	C4.0.m	Pipe/ Tube	Orifice Diameter	Dimensions - inches (mm)													
Number	Stem Type			A	В	C	D	D ₁	D ₂	E	F	G	H	М	Block Thickness	valve Pattern	
2-Way St	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	
	VEE	1/4	0.202	1.50	1.00	1.05	1 10			1.62	2.00	0.75	5.20	0.62	0.75	6aa	
BIV4B4P2	VEE	(6.35)	(5.16)	(38.10)	(25.40)	(31.75)	(30.23)			(41.40)	(76.20)	(10.05)	(134.62)	(15.75)	(10.05)	See Figure 3	
BOLLOW INJEC	1	(0.00)	(0.10)	(00.10)	(20.40)	(01.70)	(00.20)			(41.40)	(10.20)	(13.00)	(104.02)	(10.70)	(13.03)	i igule o	



Catalon	Stom	Dino/	Orifice Diameter	Dimensions - inches (mm)												
Number	Type T	Tube		A	В	C	D	D ₁	D ₂	E	F	G	H	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	

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, Parker Autoclave Engineers stocks select products. Consult factory.

All dimensions for reference only and subject to change.

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