

Solder End Ball Valves Series 509

Advantages

Parker forged body ball valve provides extended service life and resists failure caused by severe temperature applications. Optimum flow design assures maximum system efficiency. Highly inert PTFE seats and seals provide resistance to chemical corrosion. Parker also provides a blow-out proof stem, chrome plated brass ball and a specially designed handle enabling increased turning leverage for ease of opening and closing. The Parker series 509 is designed to be soft soldered into lines without disassembly. This allows the valve to be installed without disturbing the seats and seals in any way.

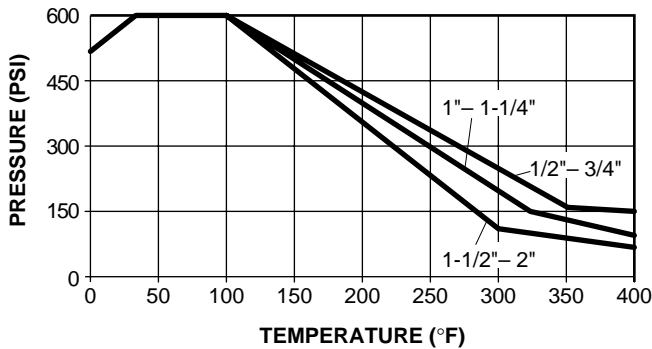
Applications

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

These valves are ideal for water and air service lines on capital equipment and plant design plumbing that require total shut-off capability. Use with ASTM B88 copper water tubing.

Working Pressure and Temperature

Saturated steam service up to 150 PSI and 400° F. Solder temperature not to exceed 470°F.



Operating Instructions

Quarter turn is "ON" or "OFF".
(Provides positive stop action for full shutoff.)

NOTE: PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

Joining Material	Melting Range Degrees F	Working Temp. Degrees F	Maximum Working Pressure (PSI)	
			Size 1/2"-1"	Size 1-1/4"-2"
50-50 Tin-Lead Solder	361-421	100	200	175
		150	150	125
		200	100	90
		250	85	75
95-5 Tin Antimony Solder	450-464	100	400	400
		150	400	350
		200	300	250
		250	200	175

Style	Type	Material	Size
V	509	P	-4
Style	V-Valve		
Type	509-Solder Ends		
Material	P- Brass		
Size	8-1/2" 12-3/4" 16-1" 20-1 1/4" 24-1 1/2" 32-2"		

Flow Data

VALVE SIZE	CV
3/4	13.0
1	25.0
1-1/4	36.0
1-1/2	61.0
2	87.0

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Solder Cup Ends XV509P

PART NO.	TUBE SIZE	E	G	H	L	M	N	FLOW DIA. D
XV509P-8	1/2	0.629	0.49	3.94	5.06	2.07	1.65	0.39
XV509P-12	3/4	0.880	0.75	3.94	5.25	2.64	1.73	0.59
XV509P-16	1	1.130	0.91	4.72	6.35	3.27	2.09	0.79
XV509P-20	1-1/4	1.380	0.96	4.72	6.59	3.74	2.24	0.98
XV509P-24	1-1/2	1.630	1.10	6.22	8.43	4.41	3.03	1.26
XV509P-32	2	2.130	1.34	6.22	8.90	5.37	3.29	1.57

