



Solder End Ball Valves Series 509

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

PRESSURE AND TEMPERATURE RANGE	
PRESSURE RANGE	600 WOG, COLD NON-SHOCK SATURATED STEAM UP TO 150 PSI
TEMPERATURE RANGE	0° TO +350°F SOLDER TEMPERATURE NOT TO EXCEED 470°F

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"		

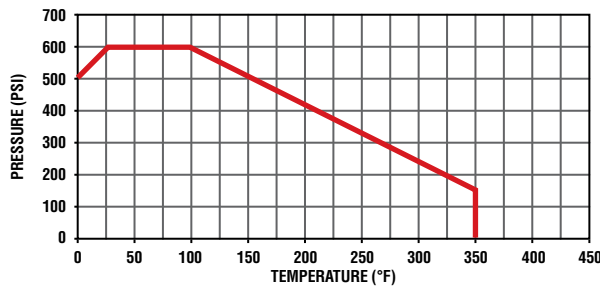
JOINING MATERIAL	MELTING RANGE	WORKING TEMP.	MAX. WORKING PRESSURE (PSI)	
	°F	°F	SIZE 1/2 - 1"	SIZE 1-1/4" - 2"
50-50 TIN-LEAD SOLDER	361-421	100	200	175
		150	150	125
		200	100	90
		250	85	75
95-5 TIN ANTIMONY SOLDER	450-464	100	400	400
		150	400	350
		200	300	250
		250	200	175

SPECIFICATIONS	
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF" (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF)



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.



FLOW DATA	
VALVE SIZE	CV
1/2"	26
3/4"	69
1"	91
1 1/4"	127
1 1/2"	299
2"	425

Solder Cup Ends XV509P

PART NO.	TUBE SIZE	E	G	H	L	M	N	FLOW DIA. D
XV509P-8	1/2	.630	.49	3.94	5.00	2.24	1.69	.55
XV509P-12	3/4	.877	.75	4.72	6.10	2.85	1.97	.75
XV509P-16	1	1.128	.90	4.72	6.40	3.35	2.13	.94
XV509P-20	1 1/4	1.378	.96	6.22	8.13	3.82	3.01	1.18
XV509P-24	1 1/2	1.628	1.10	6.22	8.46	4.49	3.25	1.50
XV509P-32	2	2.128	1.34	6.22	8.94	5.43	3.52	1.89

