



PCW Ball Valves





Process Cooling Water (PCW) Ball Valves



PCW Applications

Process Cooling Water (PCW), City Water, Potable Water

Product Description

- Size Range: NPS 1/2 to NPS 6
- Temperature Range: -20°F to 350°F (-29°C to 177°C)
- Pressure Rating:

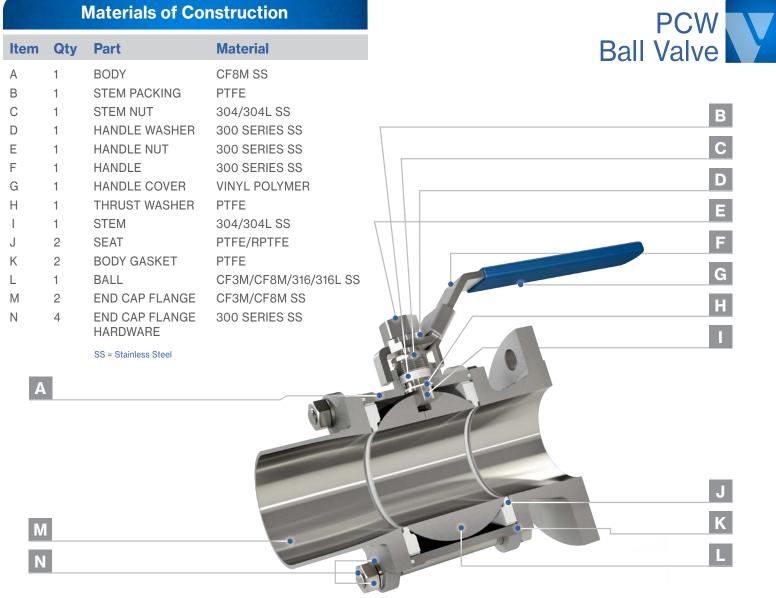
NPS 1/2 – NPS 1-1/2: 1000 PSIG (69 BARG) NPS 2: 800 PSIG (55 BARG) NPS 3: 600 PSIG (41 BARG) NPS 4 – NPS 5: 500 PSIG (34 BARG) NPS 6: 300 PSIG (21 BARG)

- Oil free stainless steel construction
- Available in various integrated tee valve assemblies

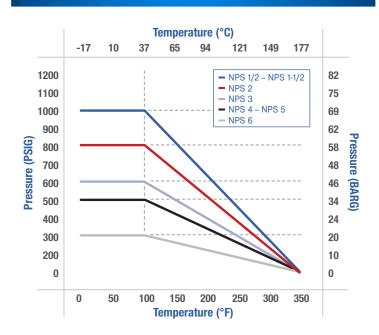
Features & Benefits

- High flow full-port design
- High cycle-life performance
- Floating ball for positive shut-off
- 3-Piece construction for ease of maintenance
- Locking handle for lock-out/tag-out applications
- 100% Leak tested and inspected
- Each valve includes a Certificate-of-Compliance to Valex specification SP-9236

Materials of Construction



Pressure Temperature Rating



Flow Coefficient

Valve Size	Ball Orifice	Cv ¹	
NPS 1/2	0.591"	37.0	
NPS 3/4	0.787"	68.5	
NPS 1	0.984"	110	
NPS 1-1/4	1.260"	186	
NPS 1-1/2	1.496"	269	
NPS 2	1.969"	481	
NPS 2-1/2	2.559"	839	
NPS 3	3.150"	1,301	
NPS 4	3.937"	2,085	
NPS 5	4.921"	3,338	
NPS 6	5.906"	4,902	

^{1.} Flow coefficient data calculated using methods described in Crane Technical Paper TP-410.



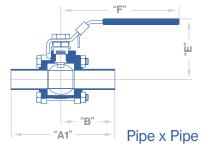
Dimensions

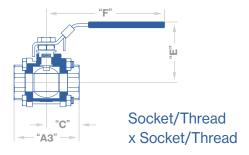
Custom Spools & Manifold Assemblies

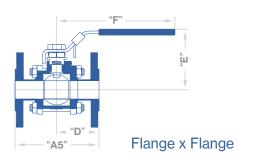
Valex can build specialty PCW valve assemblies that reduce field welds and installation time.

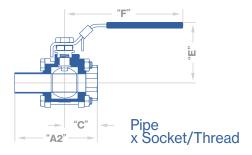
From integrated tee valve sub-assemblies, all the way to 24 foot long PCW manifolds, Valex is your one trusted source for all of your PCW needs. Contact your local Valex representative for more details.

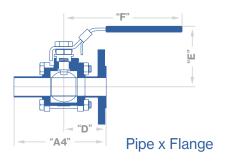












Dimensions in Millimeters*											
Size	"A1"	"A2"	"A3"	"A4"	"A5"	"B"	"C"	"D"	"E"	"F"	
NPS 1/2	135.4	105.2	75			67.7	37.5		59	105	
NPS 3/4	135	107.5	80	126	117	67.5	40	58.5	65	133	
NPS 1	152	121	90	139.5	127	76	45	63.5	74	159	
NPS 1-1/4	157	133.5	110			78.5	55		78	159	
NPS 1-1/2	190	155	120	194	198	95	60	99	91	198	
NPS 2	208	172	140	218.5	229	104	70	114.5	99	198	
NPS 2-1/2	254	219.5	185			127	92.5		137	260	
NPS 3	280	242.5	205	263.7	247.4	140	102.5	123.7	149	260	
NPS 4	306	273	240			153	120		186	288	
NPS 5	320					160			198	325-650	
NPS 6	376.4					188.2			N/A Ge	ear Operator	



Standard Configurations

Straight Valve



Single Horizontal Cross



Double Horizontal Cross



Double Single Sided









Benefit From World Leadership

We are your trusted source for high-purity ball valves, PCW ball valves, instrumentation ball valves, headers, manifolds, pipe, tube, fittings and more. For more information, please visit our website or contact your Valex representative. Benefit from world leadership, and benefit from Valex quality.





Ordering Information

P-SHC77LL72FX-B



P

Valve Series

P = Process Cooling Water (PCW)

SHC

Assembly Pattern

STR = Straight

DHC = Double Horizontal Cross

SHC = Single Horizontal Cross

DSS = Double Single Sided

DVT = Double Vertical Tee

DHT = Double Horizontal Tee

7 7

Main Line Size

NPS Pipe

70 = DN 15 Pipe (NPS 1/2)

71 = DN 20 Pipe (NPS 3/4)

72 = DN 25 Pipe (NPS 1)

73 = DN 32 Pipe (NPS 1-1/4)

74 = DN 40 Pipe (NPS 1-1/2)

75 = DN 50 Pipe (NPS 2)

76 = DN 65 Pipe (NPS 2-1/2)

77 = DN 80 Pipe (NPS 3)

78 = DN 90 Pipe (NPS 3-1/2)

79 = DN 100 Pipe (NPS 4)

80 = DN 125 Pipe (NPS 5)

81 = DN 150 Pipe (NPS 6)

82 = DN 200 Pipe (NPS 8)

7 2

Branch Valve Size

NPS Pipe

XX = No Branch Valve(s)

70 = DN 15 Pipe (NPS 1/2)

71 = DN 20 Pipe (NPS 3/4)

72 = DN 25 Pipe (NPS 1)

73 = DN 32 Pipe (NPS 1-1/4)

74 = DN 40 Pipe (NPS 1-1/2)

75 = DN 50 Pipe (NPS 2)

76 = DN 65 Pipe (NPS 2-1/2)

77 = DN 80 Pipe (NPS 3)

78 = DN 90 Pipe (NPS 3-1/2)

79 = DN 100 Pipe (NPS 4)

80 = DN 125 Pipe (NPS 5)

81 = DN 150 Pipe (NPS 6)

ASTM Tube

08 = 1/2"

12 = 3/4"

16 = 1"

24 = 1-1/2

32 = 2"

40 = 2-1/2

48 = 3"

64 = 4"

96 = 6"

FX

ASTM Tube

08 = 1/2"

12 = 3/4" 16 = 1"

24 = 1-1/2"

40 = 2-1/2"

32 = 2"

48 = 3"

64 = 4"

96 = 6"

Connection On Branch Valve(s)

XX = No Branch Valve

LX = NPS Sch 10 Pipe, Square End

MX = Tube Buttweld

FX = Class 150 Flange

TX = NPS Female Pipe Thread

SX = NPS Pipe Socket Weld

PX = Capped Compression Fitting



Handle Sleeve Color

0 = N/A

B = Blue

Main Line End Connection

LL = NPS Sch 10 Pipe w/ Square Ends, Inlet & Outlet

MM = Tube Buttweld Inlet & Outlet

CC = Compression Fitting Inlet & Outlet

FF = Class 150 Flange Inlet & Outlet

SS = NPS Pipe Socket Weld Inlet & Outlet

TT = NPS Female Pipe Thread Inlet & Outlet

LF = NPS Sch 10 Pipe Inlet w/ Square End, Class 150 Flange Outlet

LT = NPS Sch 10 Pipe Inlet w/ Square End, NPS Female Pipe Thread Outlet

LS = NPS Sch 10 Pipe Inlet w/ Square End, NPS Pipe Socket Weld Outlet

MF = Tube Buttweld Inlet, Class 150 Flange Outlet

MT = Tube Buttweld Inlet, NPS Female Pipe Thread Outlet

MS = Tube Buttweld Inlet, NPS Pipe Socket Weld Outlet

MC = Tube Buttweld Inlet, Compression Fitting Outlet

Not all possible part number combinations are available. Please contact Valex for availability.



www.valex.com

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