



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: 500 PSIG (41 BARG) NPS 5 – NPS 6: 400 PSIG (34 BARG)

NPS 8: 280 PSIG (21 BARG)

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

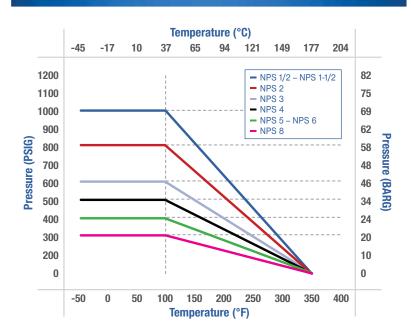
Features & Benefits

- 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







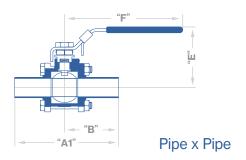
Flow Coefficient

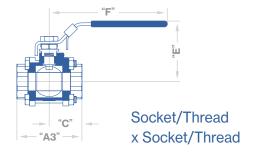
Valve Size	Ball Orifice	Cv ¹
NPS 1/2	0.591"	37.0
NPS 3/4	0.787"	68.5
NPS 1	0.984"	110
NPS 1-1/4	1.260"	186
NPS 1-1/2	1.496"	269
NPS 2	1.969"	481
NPS 2-1/2	2.559"	839
NPS 3	3.150"	1,301
NPS 4	3.937"	2,085
NPS 5	4.921"	3,338
NPS 6	5.906"	4,902

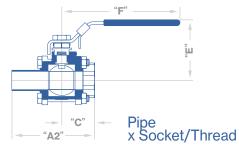
^{1.} Flow coefficient data calculated using methods described in Crane Technical Paper TP-410.

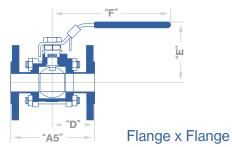


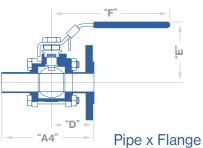
Dimensions











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 Gear Operator				

^{*} Dimensions are approximate, subject to change, and may vary from valve to valve. Please check the Valex website for latest dimensions.



Standard Configurations

Straight Valve



Single Horizontal Cross



Double Horizontal Cross



Double Single Sided



Double Vertical Tee

Double Horizontal Tee

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.









Ordering Information

P-SHC77LLL72FX-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

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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)

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"

LL

Main Line End Connection

LL = NPS Sch 10 Pipe

w/ Square Ends, Inlet & Outlet

BB = NPS Sch 10 Pipe

w/ Beveled 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 = FNPT Female Pipe Thread

Inlet & Outlet

ST = NPS Pipe Socket Weld Inlet,

FNPT Female Pipe Thread Outlet

TS = FNPT Pipe Thread Inlet,

NPS Pipe Socket Weld Outlet

LF = NPS Sch 10 Pipe Inlet

w/ Square End.

Class 150 Flange Outlet

LT = NPS Sch 10 Pipe Inlet

w/ Square End,

FNPT Female Pipe Thread Outlet

LS = NPS Sch 10 Pipe

Inlet w/ Square End,

NPS Pipe Socket Weld Outlet

LC = NPS Sch 10 Pipe Inlet,

Compression Fitting Outlet

MF = Tube Buttweld Inlet,

Class 150 Flange Outlet

MT = Tube Buttweld Inlet,

NPT Female Pipe Thread Outlet

MS = Tube Buttweld Inlet,

NPS Pipe Socket Weld Outlet

MC = Tube Buttweld Inlet,

Compression Fitting Outlet

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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)

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FX

Connection On Branch Valve(s)

XX = No Branch Valve

LX = NPS Sch 10 Pipe. Square End

MX = Tube Buttweld

FX = Class 150 Flange

TX = NPT Female Pipe Thread

SX = NPT Pipe Socket Weld

PX = Capped Compression Fitting



Handle Sleeve Color

0 = N/A

B = Blue

1 = Oval Handle Blue

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





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