Ball Valve

Key Properties

- PN16 operating performance
- UV Stabilised glass filled nylon body
- ½" to 2" sizes with double ended female BSP inlets, male x female BSP threads
- Meets AS/NZS 4020 standard for drinking water
- Handle rotates 90° between open and closed position
- Purple handled versions are available for recycled water applications
- Easy grip, non-slip handle
- Compact size
- Manufactured for over 20 years
- Australian made
- 25 year warranty*

Features & Benefits

- Proven dependable design for many years of trouble free operation and features a 25 year Warranty*
- Designed and manufactured in Australia to survive the tough Australian conditions
- Fully UV stabilised materials to resist degradation from the sun
- Meets AS/NZS 4020 so can be used on tanks for drinking water
- Compact size for easy installation in restricted spaces
- Designed to have a smooth flow path when male end connectors and threaded fittings are used
- Corrosion and impact resistant materials for a long field life
- Dual o-rings located on spindle for superior sealing performance

*Refer to Philmac Terms and Conditions

Ball Valve

System Design Considerations

Threads: All threads are BSP (Whitworth form).

Maximum Operating Pressure: 1600 kPa (232psi) or 16 bar.

Sealing threads: Philmac recommends sealing threads with PTFE tape. Other approved sealants for plastic materials can be used providing the sealant does not enter the valve where it may cause damage.

Operating temperature: The ball valve is 1600kPa rated at 20°C.

Weathering: All plastic materials used contain pigments to provide excellent protection against degradation from ultra-violet (UV) radiation.

Ball Valves - Blue Handle - Female

Part Number	Description
95500100	1/2" Female Ball Valve
95500200	3/4" Female Ball Valve
95500300	1" Female Ball Valve
95500400	1 1/4" Female Ball Valve
95500500	1 1/2" Female Ball Valve
95500600	2" Female Ball Valve

Ball Valves - Blue Handle - Male x Female

Part Number	Description
95510100	1/2" Male x Female Ball Valve
95510200	3/4" Male x Female Ball Valve
95510300	1" Male x Female Ball Valve
95510400	1 1/4" Male x Female Ball Valve
95510500	1 1/2" Male x Female Ball Valve
95510600	2" Male x Female Ball Valve

Ball Valves - Purple Handle (Recycled Water)

Part Number	Description
98510200	3/4" Ball Valve
98510300	1" Ball Valve
98510500	1 1/2" Ball Valve
98510600	2" Ball Valve

Ball Valve Spare Part Kits

Part Number	Description
90590200	Service Kit for 1/2" & 3/4" Ball Valve
90590300	Service Kit for 1" Ball Valve
90590400	Service Kit for 1 1/4" Ball Valve
90590500	Service Kit for 1 1/2" Ball Valve
90590600	Service Kit for 2" Ball Valve

Service kits include two end cap o-rings, two seal o-rings two seal rings and a ball.

High Flow

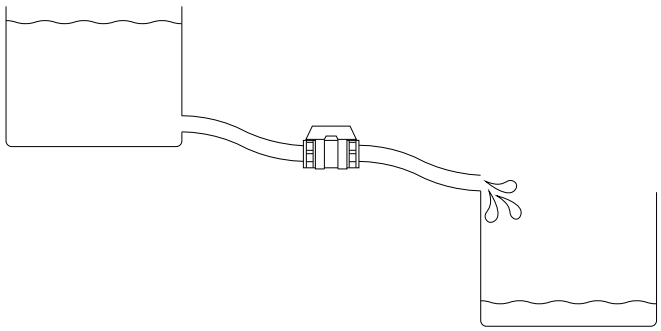
In independent testing (conducted by The University of South Australia), we replicated a typical trough filling scenario. Using a 2" ball valve and 2" rural pipe and working within the manufacturers maximum recommended water velocity; we found the Philmac Ball Valve did not restrict flow to the trough.

Pressure loss$^{\Delta}$ (kPa)

Flow Rate (L/s)	Inlet Size					
	1/2" (DN15)	3/4" (DN20)	1" (DN25)	1 1/4" (DN32)	1 1/2" (DN40)	2" (DN50)
0.5	5	5	7	*	*	*
1	14	14	10	*	*	*
1.5	-	-	11	*	*	*
2	-	-	-	6	*	*
2.5	-	-	-	8	*	*
3	-	-	-	11	5	*
4	-	-	-	-	8	*
5	-	-	-	-	13	*
6	-	-	-	-	-	6
7	-	-	-	-	-	8
8	-	-	-	-	-	10

* Denotes pressure loss too small to accurately measure but can be assumed to be 5 kPa or less.

$^{\Delta}$ The maximum headloss figures shown for each valve size are published based on pipe velocities above the pipe manufacturers general recommendation of 1.5 m/s and some cases around 3 m/s. It is assumed the pipe size is matched to the ball valve size.



Philmac Pty Ltd
47-59 Deeds Road,
North Plympton SA 5037 Australia
ABN 17 007 873 047

Sales & Customer Service
T 1800 755 899 F 1800 244 688
www.philmac.com.au

wdn21696