

Aquatherm Ball Valves

Technical Announcement

Date: November 3, 2023

Polypropylene Socket Fusion Ball Valves



Aquatherm LP has begun stocking a standard PP ball valve with socket fusion connections, and without the true union adapters. The valves are manufactured by Red-White Valve Corp. and carry the necessary listings/certifications for the North American market. The valve and cartridge bodies are polypropylene, seats are PTFE, O-rings are NBR and the ball is Cr-plated DZR lead-free brass. Aquatherm part numbers for these valves are given in Table 1.

Table 1 - Socket Fusion Ball Valve Part Numbers

Size	Pipe OD, mm	Part Number	
		PP-R	PP-RCT
1/2	20	979140120	9791520120
3/4	25	9791425340	9791525340
1	32	9791432100	9791532100
1-1/4	40	9791440114	9791540114
1-1/2	50	9791450112	9791550112
2	63	9791463200	9791563200
2-1/2	75	-	9791575212

Polypropylene True-Union Ball Valves



The true-union ball valves will continue to be available, but with more restrictive use conditions. The maximum operating pressure and temperature limits are given in Table 2. Additionally, these valves are no longer recommended for use in domestic hot water (DHW/DHWR) systems in North America.

Table 2 - Temperature Pressure Limits for True-Union Ball Valves

Temperature		Maximum Operating Pressure	
° C	° F	Bar	Psi
10	50	10	145
20	68	10	145
30	86	8.5	123
40	104	6.8	99
50	122	5.5	80
60	140	4	58
70	158	3	44
80	176	2	29

Brass Ball Valves



The leaded brass industrial ball valves are being discontinued in North America. Lead-free brass valves with PP fusion sockets are available from Nibco (Webstone Pro-Connect series).