

REQUEST FOR BIDDING INTERPRETATION (RFBI)

(Email no later than December 17, 2024, 5:00 p.m.)

PMDB RFBI No.: 7

Requestor RFBI No.: 4

Request Date: Dec. 17, 2024

From (Bidder): Preston Pipelines
Infrastructure LLC

To: **Sagar Gupta, Project Director**
Project Management and Development Branch
Real Estate Services Division
Phone: 916-591-2691

Email: sagar.gupta@dgs.ca.gov

Contact: Chad Hutchinson

Phone: 209.649.5982

Fax: 916.386.7531

Email: chutchinson@prestonpipelines.com

All RFBIs received prior to deadline identified above, and responses from the State will be published on <http://www.caleprocure.ca.gov>. Click on "Start Search." In the event name field, enter the project number and click search. While viewing the Event Details, click on "View Event Package" to view RFBI responses.

Project No.: 000000000008666
Project Name: DSH-Coalinga Hydronic Loop Replacement
Location: Coalinga, CA

Drawing Reference: M - 1.00 **Project Manual Reference:** 23 20 00 - Valves

Question: The project plans, as well as the underground and above and below ground hydronic specifications, call out polypropylene valves by Aquatherm.

In review of the "Aquatherm Parts Guide" it does not appear that Aquatherm manufactures any valves larger than 6". The project includes many valves larger than 6" in diameter.

Please advise if Aquatherm does indeed manufacture an 8", 10" and 12" valve. Additionally, please specify which type of Aquatherm valve the project will require for the diameters 6" and less in size.

If Aquatherm does not manufacture valves larger than 8", please specify an alternate valve.

From Plan Sheet M-1.00

From 23 20 10 - Above Ground Piping

HVAC AND PIPING NOTES

1. ANY HVAC EQUIPMENT FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY REGULATIONS.
2. CONTRACTOR SHALL INSTALL PER PLAN & SPECIFICATIONS. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.
3. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL COMPLY WITH BRACED TO RESIST THE FORCES PRESCRIBED IN 7.05 SECTION 13.6.8, 13.6.7 ITEM 6, AND 2013 CBC 1614A.1.13. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. PRE-APPROVAL WITH AN OPA#, SUCH AS MASON INDUSTRIES (OPA 340), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANY COPIES OF THE CODES AND STANDARDS SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING DISTRIBUTION SYSTEMS.
4. HORIZONTAL PIPE SUPPORTS ON THE ROOF SHALL BE SPACED NO MORE THAN 5 FEET APART.
5. ABOVE-GROUND PIPING SHALL BE AS SPECIFIED IN SPECIFICATIONS SECTION 23 20 13.
6. UNDERGROUND PIPING SHALL BE AS SPECIFIED IN SPECIFICATIONS SECTION 23 20 16.
7. VALVES FOR ABOVE-GROUND PIPING SHALL BE AS SPECIFIED IN SPECIFICATIONS SECTION 23 20 13, PARAGRAPH 2.04.
8. VALVES FOR UNDERGROUND PIPING SHALL BE AS SPECIFIED IN SPECIFICATIONS SECTION 23 20 16, PARAGRAPH 2.04.
9. ALL OTHER VALVES SHALL BE PROVIDED AS SPECIFIED IN SPECIFICATIONS SECTION 23 20 00.

2.04 POLYPROPYLENE VALVES

- A. Polypropylene Valves shall be provided and shall be manufactured in accordance with the manufacturer's specifications and shall comply with the performance requirements of ASTM F 2389 or CSA B137.11. The valves shall contain no rework or recycled thermoplastic materials except that generated in the manufacturer's own plant from resin of the same specification from the same raw material. Provide valve stem extension and valve vaults.
- B. Polypropylene Valves shall be Aquatherm® or approved equal.

Bureau Veritas Response:

01/14/2025

Use the specified Aquatherm polypropylene isolation valves for sizes 6" and below. For 8", 10", and 12" underground isolation valves, use Nibco model F-619 gate valves, or equal. For 8", 10", and 12" above-ground isolation valves, use Nibco model LD-2000 lug butterfly isolation valves, or equal.

Richard Henrikson
Mechanical Project Engineer

Bidder's Authorized Signature: _____

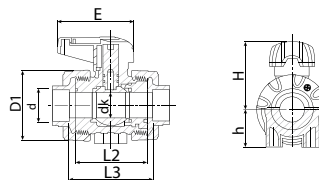
[] Check here if additional pages attached

Page 1 of _____

PRODUCT RANGE - VALVES

aquatherm POLYPROPYLENE BALL VALVE

Replacement parts can be ordered for O-rings, handles, end connectors, and socket inserts for pipe connection.

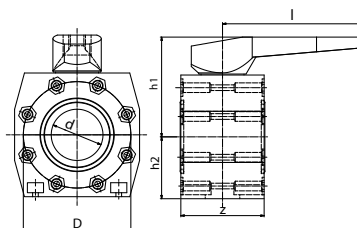


New Part No.	Old Part No.	Dimension (ND — OD)	E	D1	d	dk	L2	L3	H	h	Weight
			[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[lb]
1090020052	0041488	½" — 20 mm	2.60	1.98	0.79	0.53	2.22	2.68	2.01	1.06	0.26
1090020020	0041588 ^a	½" — 20 mm	2.60	1.98	0.79	0.53	2.22	2.68	2.01	1.06	0.26
1090025053	0041490	¾" — 25 mm	3.19	2.32	0.98	0.73	2.58	3.09	2.40	1.18	0.40
1090025021	0041590 ^a	¾" — 25 mm	3.19	2.32	0.98	0.73	2.58	3.09	2.40	1.18	0.40
1090032054	0041492	1" — 32 mm	3.21	2.77	1.26	0.94	2.83	3.33	2.40	1.57	0.60
1090032022	0041592 ^a	1" — 32 mm	3.21	2.77	1.26	0.94	2.83	3.33	2.40	1.57	0.60
1090040055	0041494	1 ¼" — 40 mm	3.60	3.38	1.57	1.22	3.35	3.94	3.19	1.81	1.07
1090040023	0041594 ^a	1 ¼" — 40 mm	3.60	3.38	1.57	1.22	3.35	3.94	3.19	1.81	1.07
1090050056	0041496	1 ½" — 50 mm	3.60	3.92	1.97	1.52	3.50	4.21	3.54	2.17	1.43
1090050024	0041596 ^a	1 ½" — 50 mm	3.60	3.92	1.97	1.52	3.50	4.21	3.54	2.17	1.43
1090063057	0041498	2" — 63 mm	5.57	4.94	2.48	1.97	3.98	4.65	4.50	2.76	2.66
1090063025	0041598 ^a	2" — 63 mm	5.57	4.94	2.48	1.97	3.98	4.65	4.50	2.76	2.66
1090075051	0041400	2 ½" — 75 mm	7.31	5.06	3.62	2.53	8.13	9.00	5.50	2.90	5.35

^aPart comes with a gray fluoroelastomer (FPM/FKLM) gasket.

aquatherm BALL VALVE WITH BOLT/GASKET KIT

Polypropylene construction with ISO bolt pattern. Comes with 2 gaskets, 16 bolts, and 16 washers. Contact Aquatherm to order parts individually. Replacement O-rings available upon request.



New Part No.	Old Part No.	Dimension (ND — OD)	d	l	z	D	h1	h2	Weight
			[in]	[in]	[in]	[in]	[in]	[in]	[lb]
9790041802	0041802	3" — 90 mm	3.03	8.27	4.88	6.30	5.91	3.66	9.25
9790041804	0041804 ^a	3 ½" to 4" — 110 to 125 mm	3.70	10.2	5.71	7.09	6.50	4.06	12.4
9790041807	0041807	6" — 160 mm	5.31	12.2	8.07	9.45	8.27	5.37	29.6

^aFor a 4" connection, use part no. 0115526 and part no. 3315726. For a 3 ½" connection, use part no. 0115524 and part no. 3315724.

Note: A full-faced flange gasket should be used with these valves. Do not use an O-ring with or without the flange gasket or leakage may occur. Discard any O-ring that may come with the valve.

REPLACEMENT BOLT/GASKET KIT FOR BALL VALVES

Kit includes the following replacement parts for the polypropylene Aquatherm ball valves: 2 gaskets, 16 bolts, and 16 washers.

New Part No.	Old Part No.	Dimension (ND — OD)
9794160318	4160218-S ^a	3" — 90 mm
9794160518	4160418-S ^b	3 ½" to 4" — 110 to 125 mm
9794160818	4160718-S ^c	6" — 160 mm

^aReplacement kit for part no. 0041602 and 0041702.

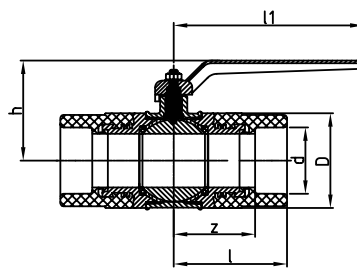
^bReplacement kit for part no. 0041604 and 0041704.

^cReplacement kit for part no. 0041607 and 0041707.

aquatherm POLYPROPYLENE/BRASS BALL VALVE

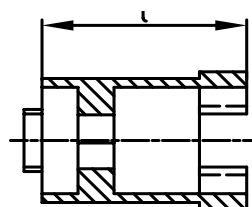
Note: Brass components in these valves do not comply with NSF 372 or the Safe Drinking Water Act (SDWA) lead-free requirements for potable water systems.

Note: Quantities in some sizes are limited, confirm availability when ordering.



New Part No. Industrial brass	Old Part No. Industrial brass	Dimension (ND — OD)	d [in]	l [in]	z [in]	D [in]	h [in]	l1 [in]	Weight [lb]
1050020174	0041308	½" — 20 mm	0.79	2.17	1.59	1.26	2.60	3.35	0.62
1050025175	0041310	¾" — 25 mm	0.98	2.17	1.54	1.61	2.87	3.35	0.83
1050032176	0041312	1" — 32 mm	1.26	2.50	1.79	1.85	3.23	4.25	1.31
1050040177	0041314	1 ¼" — 40 mm	1.57	2.85	2.05	2.28	3.66	4.25	2.24
1050050178	0041316	1 ½" — 50 mm	1.97	3.29	2.36	2.78	4.49	5.51	3.72
1050063179	0041318	2" — 63 mm	2.48	4.04	2.95	3.43	5.20	5.51	6.34

aquatherm BALL VALVE HANDLE EXTENSION



New Part No.	Old Part No.	Dimension (ND — OD) x length	l [in]	Weight [lb]
1050000180	0041378	½" to ¾" x 1 ⅓" — 20 to 25 mm x 35 mm	1.38	0.26
1050000181	0041382	1" to 1 ¼" x 1 ⅓" — 32 to 40 mm x 35 mm	1.38	0.26
1050000182	0041386	1 ½" to 2" x 1 ⅔" — 50 - 63 mm x 46 mm	1.81	0.60

Part no. 0041378 suitable for part no. 0041308 / 0041310.

Part no. 0041382 suitable for part no. 0041312 / 0041314.

Part no. 0041386 suitable for part no. 0041316 / 0041318.

aquatherm EXTENSION FOR BALL VALVE



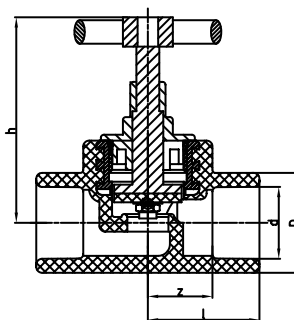
New Part No.	Old Part No.	Dimension (ND — OD)	Length [in]	Weight [lb]
9700098900	0098900	½" x 4" — 20 mm x 100 mm	3.94	0.04
9700098901	0098901	¾" to 1" x 4" — 25 to 32 mm x 100 mm	3.94	0.06
9700098902	0098902	1 ¼" to 1 ½" x 4" — 40 to 50 mm x 100 mm	3.94	0.07
9700098903	0098903	2" x 4" — 63 mm x 100 mm	3.94	0.09

PRODUCT RANGE - VALVES

aquatherm SCREW-DOWN STOP GLOBE VALVE

For surface installation.

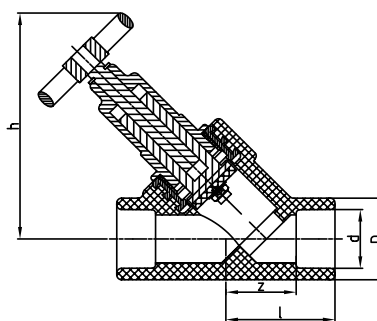
NOTE: Brass components in these valves do not comply with NSF 372 or the Safe Drinking Water Act (SDWA) lead-free requirements for potable water systems.



New Part No.	Old Part No.	Dimension (ND — OD)	d	l	z	D	h	Weight
			[in]	[in]	[in]	[in]	[in]	[lb]
1090020040	0140808	½" — 20 mm	0.79	1.38	0.81	1.16	2.76	0.36
1090025041	0140810	¾" — 25 mm	0.98	1.50	0.87	1.34	2.76	0.38
1090032042	0140812	1" — 32 mm	1.26	1.93	1.22	1.69	3.41	0.69
1090040043	0140814	1 ¼" — 40 mm	1.57	2.36	1.56	2.05	3.96	1.29

aquatherm INCLINED VALVE without drain

NOTE: Brass components in these valves do not comply with NSF 372 or the Safe Drinking Water Act (SDWA) lead-free requirements for potable water systems.



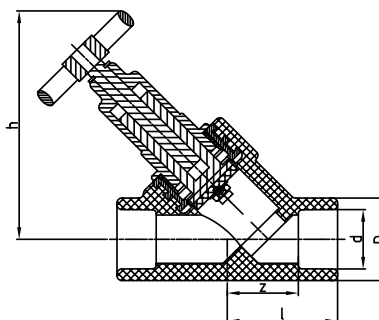
New Part No. Industrial brass	Old Part No. Industrial brass	Dimension (ND — OD)	d	l	z	D	h	Weight
			[in]	[in]	[in]	[in]	[in]	[lb]
1050020162	0141108	½" — 20 mm	0.79	1.77	1.20	1.34	3.76	0.65
	0141110	¾" — 25 mm	0.98	1.77	1.14	1.34	3.76	0.62
1050032164	0141112	1" — 32 mm	1.26	2.20	1.50	1.69	4.39	0.93
1050040165	0141114	1 ¼" — 40 mm	1.57	2.56	1.75	2.05	5.31	1.84

*Brass components in these valves do not comply with the 2015 zero-lead requirements for potable water systems.

aquatherm INCLINED CHECK VALVE without drain

Adjustable pressure check valve.

NOTE: Brass components in these valves do not comply with NSF 372 or the Safe Drinking Water Act (SDWA) lead-free requirements for potable water systems.



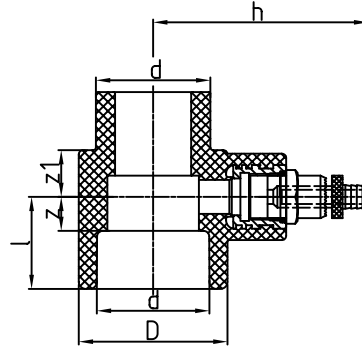
New Part No. Industrial brass	Old Part No. Industrial brass	Dimension (ND — OD)	d	l	z	D	h	Weight
			[in]	[in]	[in]	[in]	[in]	[lb]
1050020170	0041208	½" — 20 mm	0.79	1.77	1.20	1.34	3.76	0.65
1050025171	0041210	¾" — 25 mm	0.98	1.77	1.14	1.34	3.76	0.64
1050032172	0041212	1" — 32 mm	1.26	2.20	1.50	1.69	4.39	0.95
1050040173	0041214	1 ¼" — 40 mm	1.57	2.56	1.75	2.05	5.31	1.85

*Brass components in these valves do not comply with the 2015 zero-lead requirements for potable water systems.

aqualtherm DRAINING BRANCH

Fused in-line for use with **aqualtherm green pipe** valves or other cases where draining is needed.

NOTE: Brass components in these valves do not comply with NSF 372 or the Safe Drinking Water Act (SDWA) lead-free requirements for potable water systems.



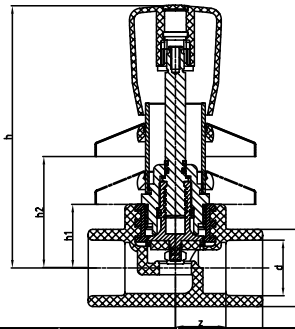
New Part No. Industrial brass	Old Part No. (NPT) Industrial brass	Dimension (ND — OD)	d [in]	l [in]	z [in]	D [in]	z1 [in]	h [in]	Weight [lb]
1050020183	141408	½" — 20 mm	0.79	0.45	1.02	1.34	0.65	2.64	0.22
1050025184	0041410	¾" — 25 mm	0.98	0.39	1.02	1.34	0.65	2.64	0.21
1050032185	0041412	1" — 32 mm	1.26	0.55	1.26	1.69	0.67	2.78	0.26
1050040186	0041414	1 ¼" — 40 mm	1.57	0.47	1.28	2.05	0.65	3.01	0.31
1050050187	0041416	1 ½" — 50 mm	1.97	0.61	1.54	2.68	0.67	3.30	0.45
1050063188	0041418	2" — 63 mm	2.48	0.65	1.73	3.31	0.65	3.66	0.64

*Brass components in these valves do not comply with the 2015 zero-lead requirements for potable water systems.

aqualtherm CONCEALED VALVE (standard)

Chromium-plated. Includes hot/cold water indicator.

NOTE: Brass components in these valves do not comply with NSF 372 or the Safe Drinking Water Act (SDWA) lead-free requirements for potable water systems.

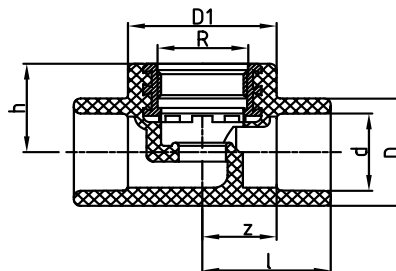


New Part No. Industrial brass	Old Part No. (ISO) Industrial brass	Dimension (ND — OD)	d [in]	l [in]	z [in]	D [in]	h [in]	h1 [in]	h2 [in]	Weight [lb]
1050020150	0140858	½" — 20 mm	0.79	1.38	0.81	1.16	4.57	1.10	2.32	0.70
1050025151	0140860	¾" — 25 mm	0.98	1.50	0.87	1.34	4.57	1.10	2.32	0.73
1050032152	0140862	1" — 32 mm	1.26	1.93	1.22	1.69	4.76	1.34	2.32	0.92

*Brass components in these valves do not comply with the 2015 zero-lead requirements for potable water systems.

aqualtherm STOP VALVE BODY ISO

NOTE: Brass components in these valves do not comply with NSF 372 or the Safe Drinking Water Act (SDWA) lead-free requirements for potable water systems.



New Part No. Industrial brass	Old Part No. (ISO) Industrial brass	Dimension PP-R (ND — OD) x thread	d [in]	l [in]	z [in]	D [in]	h [in]	D1 [in]	R [in]	Weight [lb]
1090020046	0040908	(½" — 20 mm) x ¾" F	0.79	1.38	0.79	1.16	1.10	1.73	0.75	0.21
1090025047	0040910	(¾" — 25 mm) x ¾" F	0.98	1.50	0.87	1.34	1.10	1.73	0.75	0.22
1090032048	0040912	(1" — 32 mm) x 1" F	1.26	1.93	1.22	1.69	1.34	2.05	1.00	0.32
1090040049	0040914	(1 ¼" — 40 mm) x 1 ¼" F	1.57	2.36	1.56	2.05	1.61	-	1.25	0.69

*Brass components in these valves do not comply with the 2015 zero-lead requirements for potable water systems.