

PresCal™

Pre-adjustable pressure reducing valves

535 Series

Submittal Data 02106-25 NA — Issue Date 11/2025



Application

Pressure reducing valves are devices which, when installed on water systems, reduce and stabilize the pressure of the water entering from the water supply main. This pressure, in general, is too high and variable for domestic systems to operate correctly. The PresCal™ 535H series pressure reducing valves feature a dial indicator with direct readout allowing easy pressure pre-adjustment. The valve is constructed of DZR low-lead forged brass and incorporates a unique noise reducing and high flow seat design, easy inline servicing with a replaceable cartridge and an integral stainless steel filter (35 mesh). Suitable for water systems that may contain sediment and debris.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi PresCal 535H series pressure reducing valve as manufactured by Caleffi. Each valve must be designed with a pressure balanced seat and self-contained removable cartridge. The valve design must include a DZR low-lead forged brass body, glass reinforced nylon housing with UV protective snap-on cover, stainless steel filter, peroxide-cured EPDM membrane diaphragm and sealing gaskets, with PTFE compensating piston rings. Equipped with operating knob with downstream pressure adjustment scale for manual setting and tamper-proof adjustment locking screw. The valve must be ICC-ES certified to ASSE 1003, CSA B356, and conforms to NSF/ANSI/CAN 61 (180°F/82°C Commercial Hot), NSF/ANSI/CAN 372, low lead laws as certified by ICC-ES; and meet codes IPC, IRC and UPC for use in accordance with the US and Canadian plumbing codes. Plenum rated: compliant with the requirements of standard UL 2043. Each valve shall be Caleffi model 535H series or approved equal. (See product instructions for specific installation information.)

Technical specifications

Materials

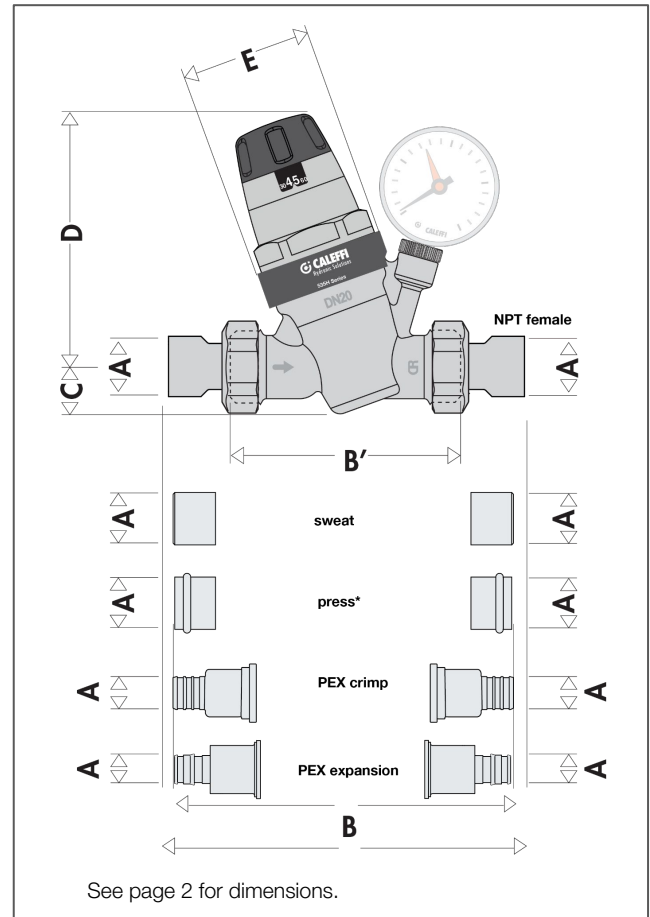
Materials	DZR low-lead forged brass
Body:	CR EN 1982 CC768S
	glass reinforced nylon PA66M40/1
Housing:	UV stabilized ABS, gray
Outdoor protective cover:	DZR low-lead brass CR EN 12164 CW724R
Control stem and moving parts:	peroxide-cured EPDM
Diaphragm:	peroxide-cured EPDM
Seals:	PTFE
Compensation piston rings:	stainless steel EN 10088-2 (AISI 304)
Filter:	stainless steel EN 10088-3 (AISI 303)
Seat:	PPSG40
Shuttle cartridge:	

Performance

Suitable fluids:	Water
Max. working pressure:	300 psi (20 bar)
Downstream pressure setting range:	15 - 90 psi (1 - 6 bar)
Factory setting:	45 psi (3 bar)
Maximum working temperature:	180°F (80°C)
Flow rates at 6 fps (gpm):	½": 7.3; ¾": 12.5; 1": 19.0; 1¼": 34.0; 1½": 44.0; 2": 70.0
Pressure gauge scale:	0 - 100 psi (0 - 7 bar)
Filter mesh size:	0.51 mm (35 mesh)

Connections:

Main connections:	½", ¾", 1", 1¼", 1½" & 2" NPT female and sweat union ½", ¾", 1", 1¼", 1½" & 2" press union ¾" & 1" PEX crimp union ¾" & 1" PEX expansion union
Lay length for press connections:	See page 2
Pressure gauge connection:	⅜" NPT female



Certifications

1. ASSE 1003, CSA B356, UPC, IPC, IRC, and NPC compliance for use in accordance with U.S. and Canadian plumbing codes. Listed and certified by ICC-ES, PMG File 1356.
2. NSF/ANSI/CAN 61 (180°F/82°C Commercial Hot), Drinking Water System Components for use in potable water systems. Certified by ICC-ES, PMG File 1512.
3. NSF/ANSI/CAN 372, US and Canadian Low-Lead and Lead-Free materials contents laws for drinking water system components. Certified by ICC-ES, PMG File 1360.
4. PEX crimp fittings certified to ASTM F 1807.
5. PEX expansion fittings certified to ASTM F 1960.
6. Plenum rated: Evaluated in accordance with the standard UL 2043 and was found compliant with the standard's requirements. (This does not pertain to the outdoor protective cover)



ASSE 1003/CSA B356
NSF/ANSI/CAN 61
NSF/ANSI/CAN 372

Dimensions

Code	A	B	B'	C	D	E	Wt (lb)
535340HA	½" FNPT	5 ½"	3 1/16"	13/16"	4 ½"	2 3/8"	2.2
535341HA*	½" FNPT	5 ½"	3 1/16"	13/16"	4 ½"	2 3/8"	2.4
535640HA	½" PRESS	5 9/16"	3 1/16"	13/16"	4 ½"	2 3/8"	2.1
535641HA*	½" PRESS	5 9/16"	3 1/16"	13/16"	4 ½"	2 3/8"	2.3
535940HA	½" SWEAT	4 9/16"	3 1/16"	13/16"	4 ½"	2 3/8"	2.1
535941HA*	½" SWEAT	4 9/16"	3 1/16"	13/16"	4 ½"	2 3/8"	2.3
535350HA	¾" FNPT	6 ¼"	3 5/8"	13/16"	4 ½"	2 3/8"	2.5
535351HA*	¾" FNPT	6 ¼"	3 5/8"	13/16"	4 ½"	2 3/8"	2.7
535650HA	¾" PRESS	6 ½"	3 5/8"	13/16"	4 ½"	2 3/8"	2.4
535651HA*	¾" PRESS	6 ½"	3 5/8"	13/16"	4 ½"	2 3/8"	2.6
535550HA	¾" PEX EXP.	6 3/4"	3 5/8"	13/16"	4 ½"	2 3/8"	2.5
535551HA*	¾" PEX EXP.	6 3/4"	3 5/8"	13/16"	4 ½"	2 3/8"	2.7
535750HA	¾" PEX CRIMP	6 3/16"	3 5/8"	13/16"	4 ½"	2 3/8"	2.4
535751HA*	¾" PEX CRIMP	6 3/16"	3 5/8"	13/16"	4 ½"	2 3/8"	2.6
535950HA	¾" SWEAT	5 5/8"	3 5/8"	13/16"	4 ½"	2 3/8"	2.4
535951HA*	¾" SWEAT	5 5/8"	3 5/8"	13/16"	4 ½"	2 3/8"	2.6
535360HA	1" FNPT	6 1/16"	3 13/16"	13/16"	4 ½"	2 3/8"	3.2
535361HA*	1" FNPT	6 1/16"	3 13/16"	13/16"	4 ½"	2 3/8"	3.4
535660HA	1" PRESS	6 7/16"	3 13/16"	13/16"	4 ½"	2 3/8"	2.9
535661HA*	1" PRESS	6 7/16"	3 13/16"	13/16"	4 ½"	2 3/8"	3.1
535560HA	1" PEX EXP.	6 ½"	3 13/16"	13/16"	4 ½"	2 3/8"	3.0
535561HA*	1" PEX EXP.	6 ½"	3 13/16"	13/16"	4 ½"	2 3/8"	3.2
535760HA	1" PEX CRIMP	5 ½"	3 13/16"	13/16"	4 ½"	2 3/8"	2.8
535761HA*	1" PEX CRIMP	5 ½"	3 13/16"	13/16"	4 ½"	2 3/8"	3.1
535960HA	1" SWEAT	5 1/8"	3 13/16"	13/16"	4 ½"	2 3/8"	2.8
535961HA*	1" SWEAT	5 1/8"	3 13/16"	13/16"	4 ½"	2 3/8"	3.0
535370HA	1 ¼" FNPT	6 7/16"	4 7/16"	1 9/16"	7"	3 1/16"	6.2
535371HA*	1 ¼" FNPT	6 7/16"	4 7/16"	1 9/16"	7"	3 1/16"	6.4
535670HA	1 ¼" PRESS	9 1/8"	4 7/16"	1 9/16"	7"	3 1/16"	6.9
535671HA*	1 ¼" PRESS	9 1/8"	4 7/16"	1 9/16"	7"	3 1/16"	7.1
535970HA	1 ¼" SWEAT	5 3/16"	4 7/16"	1 9/16"	7"	3 1/16"	5.8
535971HA*	1 ¼" SWEAT	5 3/16"	4 7/16"	1 9/16"	7"	3 1/16"	6.0
535380HA	1 ½" FNPT	6 7/8"	4 13/16"	1 9/16"	7"	3 1/16"	7.7
535381HA*	1 ½" FNPT	6 7/8"	4 13/16"	1 9/16"	7"	3 1/16"	7.9
535680HA	1 ½" PRESS	10 11/16"	4 13/16"	1 9/16"	7"	3 1/16"	8.7
535681HA*	1 ½" PRESS	10 11/16"	4 13/16"	1 9/16"	7"	3 1/16"	8.9
535980HA	1 ½" SWEAT	6"	4 13/16"	1 9/16"	7"	3 1/16"	7.1
535981HA*	1 ½" SWEAT	6"	4 13/16"	1 9/16"	7"	3 1/16"	7.3
535390HA	2" FNPT	7 1/16"	5 3/16"	1 9/16"	7"	3 1/16"	9.4
535391HA*	2" FNPT	7 1/16"	5 3/16"	1 9/16"	7"	3 1/16"	9.6
535690HA	2" PRESS	11 5/8"	5 3/16"	1 9/16"	7"	3 1/16"	11.8
535691HA*	2" PRESS	11 5/8"	5 3/16"	1 9/16"	7"	3 1/16"	12.0
535990HA	2" SWEAT	6"	5 3/16"	1 9/16"	7"	3 1/16"	8.4
535991HA*	2" SWEAT	6"	5 3/16"	1 9/16"	7"	3 1/16"	8.6

Lay lengths:
 ½" PRESS - 3 7/8"
 ¾" PRESS - 4 1/16"
 1" PRESS - 4 ¼"
 1 ¼" PRESS - 6 15/16"
 1 ½" PRESS - 5 ¾"
 2" PRESS - 8 5/8"

*Product includes outlet pressure gauge.
 All products include outdoor UV protective cover

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice. Contractors should request production drawings if prefabricating the system

Job name	_____	Size	_____
Job location	_____	Quantity	_____
Engineer	_____	Approval	_____
Mechanical contractor	_____	Service	_____
Contractor's P.O. No.	_____	Tag No.	_____
Representative	_____	Notes	_____

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