PresCal[™] **Pre-adjustable pressure reducing valves**



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Application

Dimensions

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 outdoor 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 tamperproof 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 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	- body:	DZR low-lead forged brass CR EN 1982 CC768S
	- housing:	glass reinforced nylon PA66M40/1
	Q	cover: UV stablized ABS, gray
	- control stem and r	
	DZR low	-lead brass CR EN 12164 CW724R
	- diaphragm:	peroxide-cured EPDM
	- seals:	peroxide-cured EPDM
	- compensation pist	on rings: PTFE
	- filter: st	ainless steel EN 10088-2 (AISI 304)
	- seat: st	ainless steel EN 10088-3 (AISI 303)
	 shuttle cartridge: 	PPSG40
Performance		
Suitable fluids:		water
Max. working p	pressure:	300 psi (20 bar)
Downstream p	ressure setting range	: 15 - 90 psi (1 - 6 bar)
Factory setting	:	45 psi (3 bar)
Maximum work	king temperature:	180°F (80°C)
Flow rates at 6	fps (gpm): 1/2":	7.3; ³ / ₄ ": 12.5; 1": 19.0; 1 ¹ / ₄ ": 34.0;
		1½": 44.0; 2": 70.0
Pressure gauge	e scale:	0 - 100 psi (0 - 7 bar)

Filter mesh size:

Connections

Main connections:

1/2", 3/4", 1", 11/4", 11/2" & 2" NPT female and sweat union 3/4", 1", 11/4", 11/2" & 2" press union 3/4" & 1" PEX crimp union 34" & 1" PEX expansion union

Lay length for press connections:	see page 2
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1/8" NPT female Pressure gauge connection:



Certifications

- 1. Complies with codes IPC, IRC, UPC and NPC. ICC-ES certified to ASSE 1003, CSA B356 (R2015).
- 2. Complies with NSF/ANSI/CAN 61 (180°F/82°C Commercial Hot), as certifed by ICC-ES, file PMG-1356.
- 3. Complies with NSF/ANSI 372, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, Reduction in Drinking Water Act, Vermont Act 193 - The Lead in Plumbing Supplies Law and Maryland's Lead Free Law HB.372, as certified by ICC-ES, file PMG-1360.
- 4. PEX crimp fittings certified to ASTM F 1807
- 5. PEX expansion fittings certified to ASTM F 1960.
- 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)

0.51 mm (35 mesh)

Dimensions

Code	А	В	В'	С	D	E	Wt (lb)	Cod
535 940HA	1⁄2" swt	5 5/8"	3"	¹³ /16"	4½"	2 ³ /8"	1.9	535 76
535 941HA	1⁄2" swt*	5 5/8"	3"	¹³ /16"	4½"	2 ³ /8"	2.0	535 76
535 340HA	1⁄2" nptf	5 ½"	3"	¹³ /16"	41⁄2"	23/8"	2.0	535 56
535 341HA	1⁄2" nptf*	5 ½"	3"	¹³ /16"	41⁄2"	23/8"	2.1	
535 950HA	¾" swt	5 ⁵ /8"	3 ⁹ /16"	¹³ /16"	4½"	2 ³ /8"	2.2	535 56
535 951HA	3⁄4" swt*	5 ⁵ /8"	3 ⁹ /16"	¹³ /16"	4½"	2 ³ /8"	2.3	535 97
535 350HA	34" nptf	6 ⁵ /16"	3 ⁹ /16"	¹³ /16"	4½"	2 ³ /8"	2.3	535 97
535 351HA	¾" nptf*	6 ⁵ /16"	3 ⁹ /16"	¹³ /16"	4½"	23/8"	2.4	535 37
535 650HA	¾"press	6 1⁄4"	3 ⁹ /16"	¹³ /16"	4½"	2 ³ /8"	2.3	535 37
535 651HA	³ ⁄4"press*	6 ¼"	3 ⁹ /16"	13 _{/16"}	4½"	2 ³ /8"	2.4	535 67
535 750HA	34" PEX crimp	7"	3 ⁹ /16"	¹³ /16"	4½"	2 ³ /8"	2.3	535 67
535 751HA	¾" PEX crimp*	7"	3 ⁹ /16"	13/16"	4½"	2 ³ /8"	2.4	535 98
535 550HA	34" PEX expansion	7 ¾"	3 ⁹ /16"	13/16"	4½"	2 ³ /8"	2.3	535 98
535 551HA	34" PEX expansion*	7 ¾"	3 ⁹ /16"	13/16"	41⁄2"	2 ³ /8"	2.4	535 38 535 38
535960HA	1" swt	6 ⁷ /8"	3 ¾"	¹³ /16"	41⁄2"	2 ³ /8"	2.9	535 68
535 961HA	1" swt*	6 ⁷ /8"	3 ¾"	¹³ /16"	41⁄2"	2 ³ /8"	3.0	535 68
535360HA	1" nptf	6 ⁷ /8"	3 ¾"	13 _{/16"}	41⁄2"	2 ³ /8"	3.0	535 99
535 361HA	1" nptf*	6 ⁷ /8"	3 ¾"	13 _{/16"}	4½"	2 ³ /8"	3.1	535 99
535 660HA	1"press	7 ¾"	3 ¾"	13 _{/16"}	4½"	2 ³ /8"	3.0	535 39
535 661HA	1"press*	7 ¾"	3 ¾"	¹³ /16"	4½"	2 ³ /8"	3.1	535 39
								FOFCO

Code	Α	В	B'	с	D	E	Wt (lb)
535760HA	1" PEX crimp	6 ¼"	3 ¾"	¹³ /16"	4½"	2 ³ /8"	3.0
535 761HA	1" PEX crimp*	6 ¼"	3 ¾"	¹³ /16"	4½"	2 ³ /8"	3.1
535 560HA	1" PEX expansion	7 ³ /8"	3 ¾"	¹³ /16"	4½"	2 ³ /8"	3.0
535 561HA	1" PEX expansion*	7 ³ /8"	3 ¾"	¹³ /16"	4½"	2 ³ /8"	3.1
535 970HA	1¼"swt	6 ⁵ /8"	4 ⁵ /16"	1 ⁹ /16"	7"	3 ¹ /16"	5.6
535 971HA	1¼"swt*	6 ⁵ /8"	4 ⁵ /16"	1 ⁹ /16"	7"	3 ¹ /16"	5.7
535 370HA	1¼"nptf	7 ⁷ /8"	4 ⁵ /16"	1 ⁹ /16"	7"	3 ¹ /16"	5.7
535 371HA	1¼"nptf*	7 ⁷ /8"	4 ⁵ /16"	1 ⁹ /16"	7"	3 ¹ /16"	5.8
535670HA	1¼" press	9"	4 ⁵ /16"	1 ⁹ /16"	7"	3 ¹ /16"	5.8
535 671HA	1¼" press*	9"	4 ⁵ /16"	1 ⁹ /16"	7"	3 ¹ /16"	5.8
535 980HA	1½"swt	7 ¾"	4 ¾"	1½"	7"	3 ¹ /16"	7.3
535 981HA	1½"swt*	7 ¾"	4 ¾"	1½"	7"	3 ¹ /16"	7.4
535380HA	1½"nptf	8"	4 ¾"	1½"	7"	3 ¹ /16"	7.3
535 381HA	1½" nptf*	8"	4 ¾"	1½"	7"	3 ¹ /16"	7.4
535680HA	1½" press	12 ⁵ /8"	4 ¾"	1½"	7"	3 ¹ /16"	7.3
535 681HA	1½" press*	12 ⁵ /8"	4 ¾"	1½"	7"	3 ¹ /16"	7.4
535 990HA	2"swt	8"	5 ¹ /8"	11⁄2"	7"	3 ¹ /16"	9.7
535 991HA	2"swt*	8"	5 ¹ /8"	11⁄2"	7"	3 ¹ /16"	9.8
535390HA	2"nptf	8 ³ /8"	5 ¹ /8"	1½"	7"	3 ¹ /16"	9.7
535 391HA	2"nptf*	8 ³ /8"	5 ¹ /8"	1½"	7"	3 ¹ /16"	9.8
535690HA	2" press	14"	5 ¹ /8"	1½"	7"	3 ¹ /16"	9.7
535 691HA	2" press*	14"	5 ¹ /8"	1½"	7"	3 ¹ /16"	9.8

Lay length: 3/4" press: 41/4 inch.

⁷⁴ press: 474 inch.
1" press: 5% inch.
1¼" press: 7 inch.
1½" press: 9 7/8 inch.
2" press: 11 inch.

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

*configuration includes factory supplied outlet pressure gauge. All configurations come with outdoor protective cover.