Pre-adjustable pressure reducing valves



535H series

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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 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 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 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, NSF 61, NSF 372, low lead laws and listed by ICC-ES; and meet codes IPC, IRC and UPC for use in accordance with the US and Canadian plumbing codes. 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 EN 12165 CW724R
	- cover:	glass reinforced nylon PA66M40/11
	- control stem: - moving parts:	DZR low-lead brass
		EN 12165 CW724R
	- diaphragm:	peroxide-cured EPDM
	- seals:	peroxide-cured EPDM
	- compensation p	piston rings: PTFE
	- filter:	stainless steel EN 10088-2 (AISI 304)
	- seat:	stainless steel EN 10088-3 (AISI 303)
	- shuttle:	PPSG40
Performance		

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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 (gpm):	see page 2
Pressure gauge scale:	0 - 100 psi (0 - 7 bar)
Filter mesh size:	0.51 mm (35 mesh)

Connections

Main connectio	ins:	
	1/2", 3/4", 1", 11/4", 11/2" & 2" NPT female and swe	eat union
	34" & 1" pre	ess union
	34" & 1" PEX crit	np union
Lay length:		
	- ¾" press connection:	4 1⁄4"
	- 1" press connection:	5 ¾"

Pressure gauge connection: 1/8" NPT female Dimensions





Dimensions

Code	А	Connection	Outlet Pressure Gauge	В	B'	с	D	E	Flow rate (gpm)*	Wt (lb)
535 940HA	1/2"	sweat	İ	5 5/8"		İ	4½"	2 ³ /8"	7.3	1.9
535 941HA		sweat	1	5 5/8"	3"	13/16"				2.0
535 340HA		NPT female		5 ¾"						2.0
535 341HA		NPT female	1	5 ¾"						2.1
535 950HA		sweat		5 ⁵ /8"	3 ⁹ /16"				12.50	2.2
535 951HA		sweat	1	5 ⁵ /8"						2.3
535 350HA		NPT female		6 ⁵ /16"						2.3
535 351HA	3⁄4 "	NPT female	1	6 ⁵ /16"						2.4
535650HA		press		6 ¼"						2.3
535 651HA		press	1	6 ¼"						2.4
535 750HA		PEX barb		7"						2.3
535 751HA		PEX barb	1	7"						2.4
535960HA		sweat		6 ⁷ /8"					19.0 34.0	2.9
535 961HA		sweat	1	6 ⁷ /8"	3 %4"					3.0
535360HA	1"	NPT female		7 ¹ /16"		1 ⁹ /16"				3.0
535 361HA		NPT female		7 ¹ /16"						3.1
535660HA		press		7 3/4"						3.0
535661HA		press		7 3/4"						3.1
535760HA		PEX barb		6 1/4"						3.0
535/61HA		PEX barb		6 1/4"						3.1
535970HA		sweat		7 7/8"	4 ⁵ /16"					5.6
53597 THA	11/4 "	Sweat		7 1/8						5.7
535370HA	174	INPT temale		7 //8"						5.7
535 371HA		NPT female	1	7 7/8"						5.8
535 980HA		sweat		7 ⁹ /16"	4 ¾"	11⁄2"	7"		44.0	7.3
535 981HA	1½"	sweat	1	7 ⁹ /16"						7.4
535 380HA		NPT female		7 7/8"						7.3
535 381HA		NPT female	1	7 7/8"						7.4
535990HA	2"	sweat		8"	5 ¹ /8"				70.0	9.7
535 991HA		sweat	1	8"						9.8
535 390HA		NPT female		8 ³ /8"						9.7
535 391HA		NPT female	1	8 ³ /8"						9.8

NOTE:

*gpm flow rate at 6 feet per second water velocity.

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	Approva				
Mechanical contractor	Service				
Contractor's P.O. No.	Tag No.				
Representative	Notes				

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