

PresCal™ HP

Heavy-duty piston-type pressure reducing valves



High range 5360x3A series

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Application

The PresCal™ HP 536A series pressure reducing valve is a high performance true piston-type PRV that can withstand the punishing conditions of water hammer and very high pressure reduction and control. High range models 536x3A series, with set point adjustment range 90 to 150 psi, provide the first stage of pressure reduction in a two-valve series where the pressure ratio between the inlet and outlet would be too high for single PRV to control.

Typical Specification

Furnish and install on the plans and described herein, a PresCal HP heavy-duty piston-type pressure reducing valve (PRV) as provided by Caleffi. Each PRV must be designed with DZR low-lead cast brass body and valve plug, brass spring case, adjusting screw; stainless steel piston, spring, control spindle, seat, strainer and moving parts. Strainer screen mesh .51 mm (size ½ to 1 inch), .65 mm mesh (size 1¼ - 2 inch) and PTFE piston rings, peroxide-cured EPDM seals. 360 psi max. pressure rating and 180°F max. working temperature. Dual-pressure gauge connections, provided with one 0 - 200 psi/ 0 - 1,400 kPa gauge. Each PRV shall be a Caleffi PresCal HP high range 5360x3A series or approved equal. (See product instructions for specific installation information.)

Technical specifications

Materials

Body:	DZR low-lead cast brass CR EN 1982 CC768S
Spring case:	brass EN 12165 CW617N
Pressure adjusting screw:	brass EN 12165 CW617N
Hexagonal allen key for setting pressure:	10 mm
Control spindle:	stainless steel EN 10088-3 (AISI 303)
Spring:	stainless steel EN 10270-3 (AISI 302)
Piston:	stainless steel EN 10088-3 (AISI 303)
Piston rings:	PTFE
Moving parts:	stainless steel EN 10088-3 (AISI 303)
Seals:	peroxide-cured EPDM
Strainer:	stainless steel EN 10088-2 (AISI 304)
Seat:	stainless steel EN 10088-3 (AISI 303)
Valve plug:	DZR low-lead brass CR EN 12165 CW724R
Pressure gauge port plug:	brass EN 12165 CW617N

Performance

Suitable fluids:	water
Max. pressure upstream:	360 psi (2,480 kPa)
Downstream pressure setting range:	200 psi (13 bar) max. for press connection models
	90 - 150 psi (620 - 1,035 kPa)

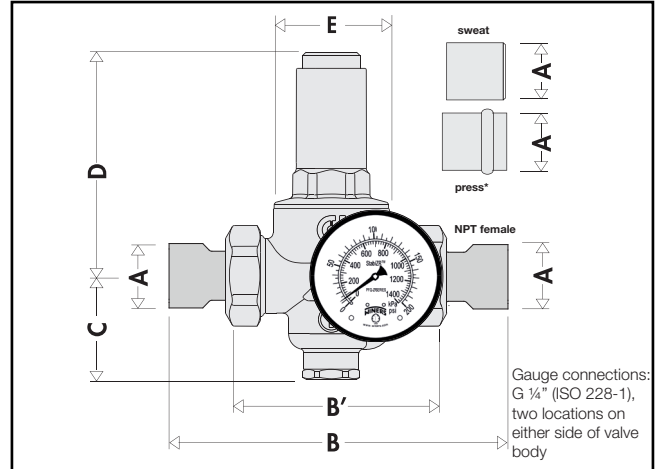
Factory setting:	115 psi (800 kPa)
Maximum working temperature:	180°F (82°C)
Max. flow(gpm):	size ½" (7.3), ¾" (12.5), 1" (19), 1¼" (34), 1½" (44) & 2" (70)
Pressure gauge scale:	0 - 200 psi (0 - 1,400 kPa)
Filter mesh size (diameter):	size ½" to 1": 0.2 (0.51 mm) size 1¼" to 2": 0.3 (0.65 mm)

Certifications

Complies with NSF/ANSI/CAN 61 (180°F/82°C Commercial Hot), as certified by ICC-ES, file PMG-1356. Complies with NSF/ANSI/CAN 372, as certified by ICC-ES, file PMG-1360.

Main connections:	½", ¾", 1", 1¼", 1½" & 2" NPT female and sweat union ¾", 1", 1¼", 1½" & 2" press union
Dual pressure gauge connections:	¼" straight female
Pressure gauge:	¼" NPT male ¼" straight male x ¼" NPT adapter on pressure gauge

Dimensions



Code	A	B	B'	C	D	E	Wt. (lb.)
NPT Female threaded connections							
536043A 103	½"	5½"	3"	2⅞"	3⅞"	2⅞"	3.3
536053A 103	¾"	6¼"	3½"	2⅞"	4⅞"	2⅞"	4.4
536063A 103	1"	6⅞"	3¾"	2⅞"	4⅞"	2⅞"	5.0
536073A 103	1¼"	7⅞"	4⅝"	2½"	5¼"	2½"	7.5
536083A 103	1½"	8"	4¾"	2½"	5¼"	2½"	8.8
536093A 103	2"	8⅝"	5⅞"	2½"	5¼"	2½"	11.2
Press connections*							
536053A 106	¾"	6⅞"	3½"	2⅞"	4⅞"	2⅞"	4.4
536063A 106	1"	7¾"	3¾"	2⅞"	4⅞"	2⅞"	5.0
536073A 106	1¼"	8⅞"	4⅞"	2½"	5¼"	2½"	7.5
536083A 106	1½"	12½"	4¾"	2½"	5¼"	2½"	8.8
536093A 106	2"	13⅞"	5⅞"	2½"	5¼"	2½"	11.2
Sweat connections							
536043A 109	½"	5⅞"	3"	2⅞"	3⅞"	2⅞"	3.3
536053A 109	¾"	5⅞"	3½"	2⅞"	4⅞"	2⅞"	4.4
536063A 109	1"	6⅞"	3¾"	2⅞"	4⅞"	2⅞"	5.0
536073A 109	1¼"	6⅞"	4⅞"	2½"	5¼"	2½"	7.5
536083A 109	1½"	7¾"	4¾"	2½"	5¼"	2½"	8.8
536093A 109	2"	7⅞"	5⅞"	2½"	5¼"	2½"	11.2

*Lay lengths: size ¾" - 4.2"; size 1" - 5.75"; size 1¼" - 6.9"; size 1½" - 9.7"; size 2" - 10.7".

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 _____
 Job location _____
 Engineer _____
 Mechanical contractor _____
 Contractor's P.O. No. _____
 Representative _____

Size _____
 Quantity _____
 Approval _____
 Service _____
 Tag No. _____
 Notes _____