

# 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 1/2 to 1 inch), .65 mm mesh (size 1 1/4 - 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.)

**NSF/ANSI/CAN 61**

**NSF/ANSI/CAN 372**

#### 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 (2500 kPa)
Downstream pressure setting range:	90 - 150 psi (600 - 1000 kPa)
Factory setting:	115 psi (800 kPa)
Maximum working temperature:	180°F (82°C)
Max. flow(gpm):	size 1/2" (7.3), 3/4" (12.5), 1" (19), 1 1/4" (34), 1 1/2" (44) & 2" (70)

Pressure gauge scale:	0 - 200 psi (0 - 1400 kPa)
Filter mesh size (diameter):	size 1/2" to 1": 0.2 (0.51 mm) size 1 1/4" to 2": 0.3 (0.65 mm)

##### Certifications

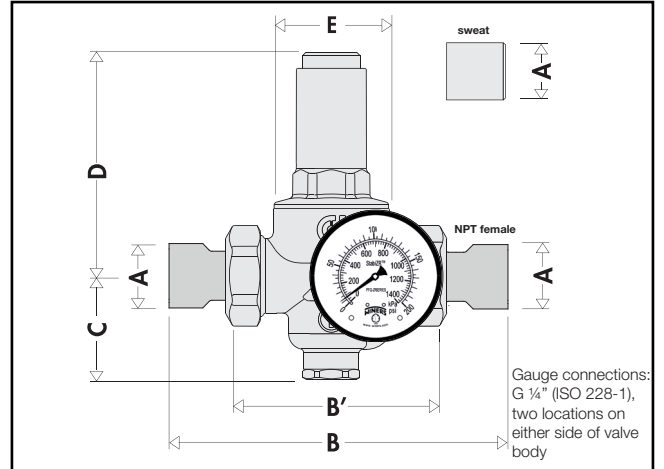
Complies with NSF/ANSI/CAN 61 (180°F/82°C Commercial Hot), as certified by ICC-ES, file PMG-1356. Complies with NSF/ANSI/CAN 372, as certified by ICC-ES, file PMG-1360.

Main connections: 1/2", 3/4", 1", 1 1/4", 1 1/2" & 2" NPT female and sweat union  
3/4", 1", 1 1/4", 1 1/2" & 2" press union

Dual pressure gauge connections: 1/4" straight female

Pressure gauge: 1/4" NPT male  
1/4" straight male x 1/4" NPT adapter on pressure gauge

#### Dimensions



Code	A	B	B'	C	D	E	Wt. (lb.)
<b>NPT Female threaded connections</b>							
536043A 103	1/2"	5 1/2"	3"	2 1/8"	3 3/8"	2 1/8"	3.3
536053A 103	3/4"	6 1/4"	3 1/2"	2 1/8"	4 9/16"	2 1/8"	4.4
536063A 103	1"	6 7/8"	3 3/4"	2 1/8"	4 9/16"	2 1/8"	5.0
536073A 103	1 1/4"	7 7/8"	4 5/16"	2 1/2"	5 1/4"	2 1/2"	7.5
536083A 103	1 1/2"	8"	4 3/4"	2 1/2"	5 1/4"	2 1/2"	8.8
536093A 103	2"	8 5/16"	5 1/16"	2 1/2"	5 1/4"	2 1/2"	11.0
<b>Sweat connections</b>							
536043A 109	1/2"	5 5/8"	3"	2 1/8"	3 3/8"	2 1/8"	3.3
536053A 109	3/4"	5 9/16"	3 1/2"	2 1/8"	4 9/16"	2 1/8"	4.4
536063A 109	1"	6 7/8"	3 3/4"	2 1/8"	4 9/16"	2 1/8"	5.0
536073A 109	1 1/4"	6 3/8"	4 5/16"	2 1/2"	5 1/4"	2 1/2"	7.5
536083A 109	1 1/2"	7 3/4"	4 3/4"	2 1/2"	5 1/4"	2 1/2"	8.8
536093A 109	2"	7 15/16"	5 1/16"	2 1/2"	5 1/4"	2 1/2"	12.0

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 \_\_\_\_\_