

# PresCal™ HP

## Heavy-duty piston-type pressure reducing valves



### Low range 5360x4A 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. Low range models 536x4A, comply with ASSE 1003, have a standard adjustment range of 10 to 90 psi and the all-metal design makes them ideal for outdoor locations and irrigation pressure 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. 300 psi max. pressure rating and 180°F max. working temperature. Dual-pressure gauge connections, provided with one 0 - 100 psi/ 0 - 700 kPa gauge. Each PRV shall be a Caleffi PresCal HP Low range 5360x4A 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  
Closing cap: 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: 300 psi (2,068 kPa)  
200 psi (13 bar) max. for press connection models  
Downstream pressure setting range: 10 - 900 psi (70 - 600 kPa)  
Factory setting: 45 psi (310 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 - 100 psi (0 - 700 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

ICC-ES certified to ASSE 1003, CSA B356 (R2015). 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.

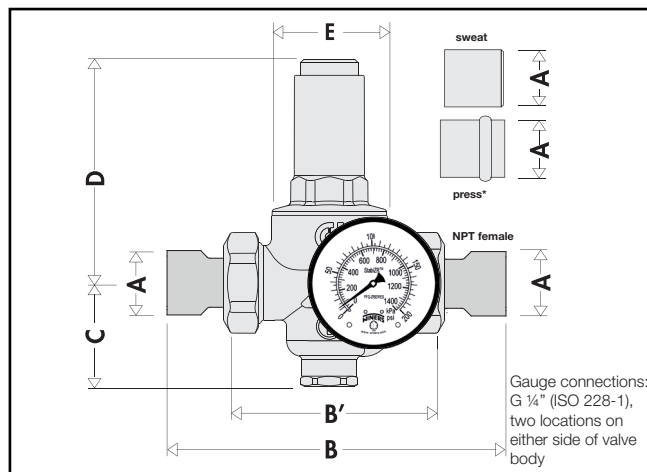
Main connections: 1/2", 3/4", 1", 1 1/4", 1 1/2" & 2" NPT female and sweat union  
3/4", 1", 1 1/4", 1 1/2" & 2" press union

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>							
536044A 103	1/2"	5 1/2"	3"	2 1/8"	3 3/8"	2 1/8"	3.3
536054A 103	3/4"	6 1/4"	3 1/2"	2 1/8"	4 9/16"	2 1/8"	4.4
536064A 103	1"	6 7/8"	3 3/4"	2 1/8"	4 9/16"	2 1/8"	5.0
536074A 103	1 1/4"	7 7/8"	4 5/16"	2 1/2"	5 1/4"	2 1/2"	7.5
536084A 103	1 1/2"	8"	4 3/4"	2 1/2"	5 1/4"	2 1/2"	8.8
536094A 103	2"	8 5/16"	5 1/16"	2 1/2"	5 1/4"	2 1/2"	11.2
<b>Press connections*</b>							
536054A 106	3/4"	6 3/16"	3 1/2"	2 1/8"	4 9/16"	2 1/8"	4.4
536064A 106	1"	7 3/4"	3 3/4"	2 1/8"	4 9/16"	2 1/8"	5.0
536074A 106	1 1/4"	8 13/16"	4 5/16"	2 1/2"	5 1/4"	2 1/2"	7.5
536084A 106	1 1/2"	12 1/2"	4 3/4"	2 1/2"	5 1/4"	2 1/2"	8.8
536094A 106	2"	13 13/16"	5 1/16"	2 1/2"	5 1/4"	2 1/2"	11.2
<b>Sweat connections</b>							
536044A 109	1/2"	5 5/8"	3"	2 1/8"	3 3/8"	2 1/8"	3.3
536054A 109	3/4"	5 9/16"	3 1/2"	2 1/8"	4 9/16"	2 1/8"	4.4
536064A 109	1"	6 7/8"	3 3/4"	2 1/8"	4 9/16"	2 1/8"	5.0
536074A 109	1 1/4"	6 5/8"	4 5/16"	2 1/2"	5 1/4"	2 1/2"	7.5
536084A 109	1 1/2"	7 3/4"	4 3/4"	2 1/2"	5 1/4"	2 1/2"	8.8
536094A 109	2"	7 15/16"	5 1/16"	2 1/2"	5 1/4"	2 1/2"	11.2

\*Lay lengths: size 3/4" - 4.2"; size 1" - 5.75"; size 1 1/4" - 6.9"; size 1 1/2" - 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 \_\_\_\_\_