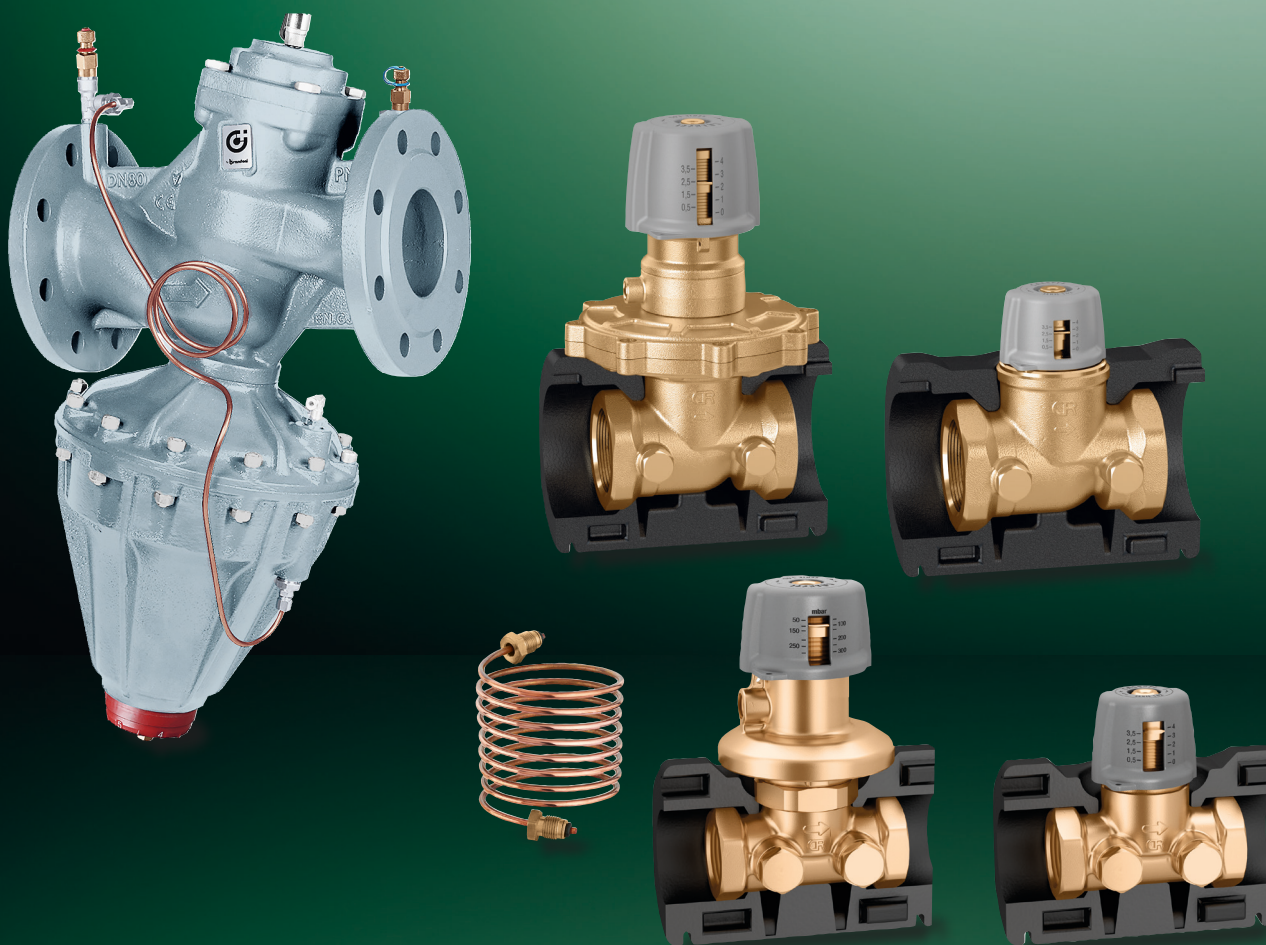


Differential pressure regulating valve and pre-regulation valve

140 – 142 series

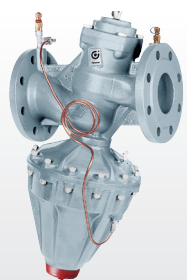
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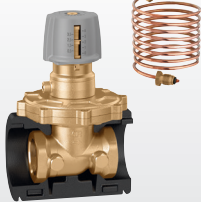
- The 140 series differential pressure regulating valve keeps the pressure differential constant at the set value between two points of a hydraulic circuit.
- The 140 series differential pressure regulating valve is available with two adjustable setting ranges: 50–300 and 250–600 mbar (flanged version 200–800 or 900–1600 mbar). The set differential pressure value can be read directly on the adjustment knob.
- The 142 series pre-regulation valve allows accurate measuring and balancing of the flow rate of the thermal medium that supplies the system terminals.
- The 140 series differential pressure regulating valve and the 142 series pre-regulation valve are equipped (except for the flanged version) with a setting lock function and can be closed while maintaining the specified setting value.
- The valves are supplied (except for the flanged version) complete with pre-formed shell insulation to guarantee perfect thermal insulation.



PRODUCT RANGE



140 SERIES



142 SERIES



CODE	SIZES	SETTING (mbar)	CODE	SIZES
140340	1/2"	50–300	142140	1/2"
140342*	1/2"	50–300	142240*	1/2"
140440	1/2"	250–600	142150	3/4"
140442*	1/2"	250–600	142250*	3/4"
140350	3/4"	50–300	142160	1"
140352*	3/4"	50–300	142260*	1"
140450	3/4"	250–600	142170	1 1/4"
140452*	3/4"	250–600	142270*	1 1/4"
140360	1"	50–300	142180	1 1/2"
140362*	1"	50–300	142280*	1 1/2"
140460	1"	250–600	142290*	2"
140462*	1"	250–600		
140370	1 1/4"	50–300		
140372*	1 1/4"	50–300		
140470	1 1/4"	250–600		
140472*	1 1/4"	250–600		
140380	1 1/2"	50–300		
140382*	1 1/2"	50–300		
140480	1 1/2"	250–600		
140482*	1 1/2"	250–600		
140392*	2"	50–300		
140492*	2"	250–600		
140506*	DN 65	200–800		
140606*	DN 65	800–1600		
140508*	DN 80	200–800		
140608*	DN 80	800–1600		
140510*	DN 100	200–800		
140610*	DN 100	800–1600		
140512*	DN 125	200–800		
140515*	DN 150	200–800		

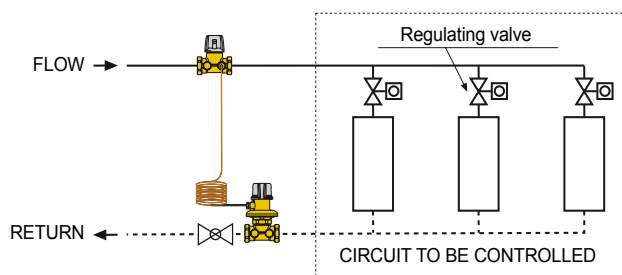
* without insulation

OPERATING PRINCIPLE

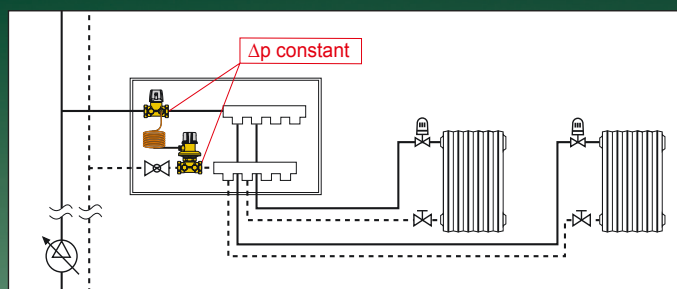
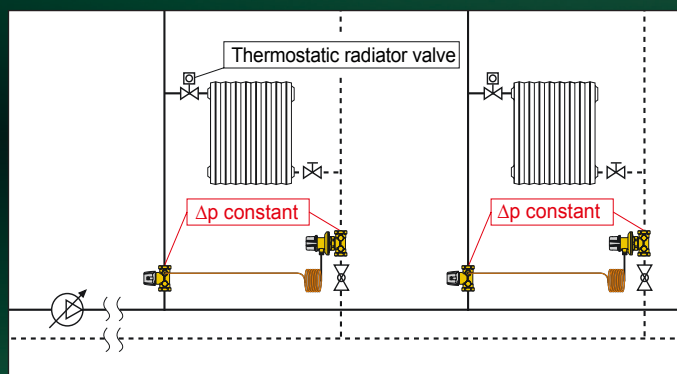
The differential pressure regulating valve keeps the difference in pressure existing between two points of a hydraulic circuit constant, at the set value.

The device is fitted in the circuit return pipe and is connected, via a capillary pipe, to the valve on the flow pipe, which can be used to regulate the overall flow rate.

It is used in variable flow rate systems, with thermostatic or motorised two-way valves, to limit the increase in differential pressure due to their partial or total closure.



APPLICATION DIAGRAMS



TECHNICAL SPECIFICATIONS

Max. working pressure	16 bar (DN 15–N 25) - (DN 65–DN 150) 10 bar (DN 32–DN 50)
Working temperature range	-10–120 °C
Max. percentage of glycol	50 %
Valve body	dezincification resistant alloy CR (DN 15–DN 50) grey cast iron (DN 65–DN 150)
Insulation	material: PPE density: 45 kg/m³

ELECTRONIC FLOW RATE AND DIFFERENTIAL PRESSURE METER



CODE	
130006	Complete with remote control unit
130005	Without remote control unit, with Android® application

REFERENCE DOCUMENTATION:

140 series Tech. broch. 01250

CALEFFI
Hydronic Solutions

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Caleffi S.p.A. S.R. 229 no. 25 · 28010 Fontaneto d'Agogna (NO) · Italy
Tel. +39 0322 8491 · Fax +39 0322 863723
info@caleffi.com · www.caleffi.com · © Copyright 2024 Caleffi