# AutoFill<sup>TM</sup> pre-adjustable automatic filling valve

# 553 series

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## **Application**

The automatic filling valve is a device consisting of a pressure reducing valve with compensating seat, visual system pressure setting indicator, an inlet filter, anti-scale internal parts, a shut-off valve (round knob on bottom) and a check valve. It is installed on the water inlet piping in sealed heating systems, and its main function is to maintain the pressure of the system at a set value, automatically filling up with water as required. The valve is pre-adjustable, meaning it can be set to the desired pressure value before the system charging phase. After installation, during the filling or topping-off phase, the water feed will stop when the set pressure is reached. This valve fills 50% faster than other valves. There are no levers to flip or valve to close.

# **Typical Specification**

Furnish and install on the plans and described herein, a Caleffi AutoFill<sup>TM</sup> pre-adjustable automatic filling valve as manufactured by Caleffi. Each valve must be designed with a visual system pressure setting indicator. The filling valve design must include a brass body, nylon plastic cover, sliding surfaces in anti-scale plastic, diaphragm and seals in NBR and removable cartridge for maintenance operations. The filling valve must have a pressure indicator for pre-adjustment of device, accuracy ±2 psi (±0.15 bar). Complete with isolating valve and filter. Integral downstream pressure gauge (0-60 psi/0-4 bar) for codes 553642A and 553649A. (See product instructions for specific installation information.)

# **Technical specifications**

### Materials

Body: brass
Cover: PA 66 GF 30
Internal Seals: NBR
Line Seals: EPDM

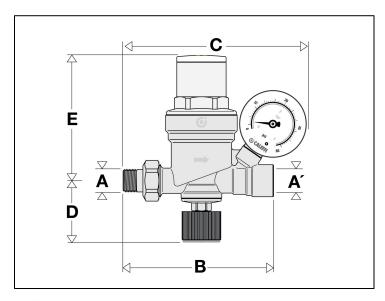
# Performance

Suitable fluids: water, glycol solution Max. percentage of glycol: 50% Max. working pressure): 230 psi (16 bar) Pressure setting range: 3-60 psi (0.2-4 bar) 15 psi (1.035 bar) Factory setting: Indicator accuracy: ±2 psi (± 0.15 bar) Max. working temperature: 150°F (65°C) Pressure gauge scale: 0-60 psi / 0-4 bar

### Connections

553542A: ½" NPT male inlet x ½" NPT female outlet 553549A: ½" sweat inlet x ½" NPT female outlet 553642A: ½" NPT male inlet x ½" NPT female outlet 553649A: ½" sweat inlet x ½" NPT female outlet) Pressure gauge: ½" NPT

### **Dimensions**



Code	Α	A´	В	С	D	Е
<b>553</b> 542A	½" NPT	½" NPT	4 ¾"		<b>1</b> 15/ <sub>16</sub> "	4"
<b>553</b> 549A	½" SWT	½" NPT	4 ¾"	_	<b>1</b> 15/16 <b>"</b>	4"
<b>553</b> 642A	½" NPT	½" NPT	4 ¾"	5 ¾"	115/16"	4"
<b>553</b> 649A	½" SWT	½" NPT	4 ¾"	5 ¾"	115/16"	4"

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Job name	Size
Job location	Quantity
Engineer	Approval
Mechanical contractor	Service
Contractor's P.O. No.	Tag No
Representative	Notes