

Differential Pressure By-pass Valve

Submittal Information
Revision A: July 6, 2011

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

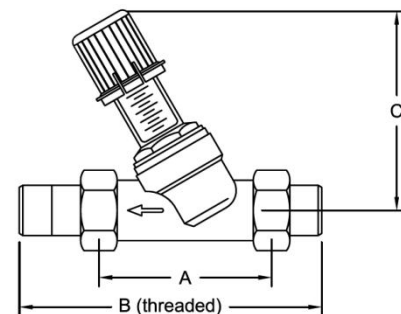
Materials:

Setting handle:	Polyoxymethylene (POM) plastic
Base, valve body:	Ms 58
Spring guide, valve cone:	Polyphenylene sulphide
Spring, setting pins:	Stainless steel
O-rings:	EPDM rubber

Setting range:	1.67 to 16.72 feet of head
Maximum differential:	16.72 feet of head
Maximum operating pressure:	145 psi
Maximum flow temperature:	248°F (120°C)
Maximum leakage at closed valve:	0.22 gallons per minute (gpm)

Product Information and Application Use

The self-acting, automatic pressure differential by-pass valve is used in multi-zoned systems that have fluctuations in flow due to transient opening and closing of zones. An additional benefit for using the valve is during flow balancing of manifolds. The valve creates consistent system pressure, allowing more exact balancing when balancing the manifolds under operation. The valve is not required in single-zone systems such as snow melting or smaller radiant projects operated by a single secondary pump. The valve opens on rising differential pressure.



✓ Description	Part Number	A	B	C	Weight
¾" Differential Pressure By-pass Valve	A5410750	3.66"	6.49"	4.45"	1.10 lbs.
1" Differential Pressure By-pass Valve	A5411000	4.17"	7.00"	4.69"	1.40 lbs.

Installation

Place the valve anywhere in the system to achieve a desired by-pass function. Mount the valve body with the flow in the direction of the cast-in arrow. Set the control by turning the adjustment knob. For further information, refer to the Differential Pressure By-pass Valve Instruction Sheet.

Standards

N/A

Codes

N/A

Listings

N/A

Related Applications

Radiant Heating and Cooling Systems

Contact Information

Uponor, Inc.
5925 148th Street West
Apple Valley, MN 55124 USA
Phone: (800) 321-4739
Fax: (952) 891-2008
www.uponor-usa.com

Uponor Ltd.
2000 Argenta Road, Plaza 1, Suite 200
Mississauga, ON L5N 1W1 CANADA
Phone: (888) 994-7726
Fax: (800) 638-9517
www.uponor.ca