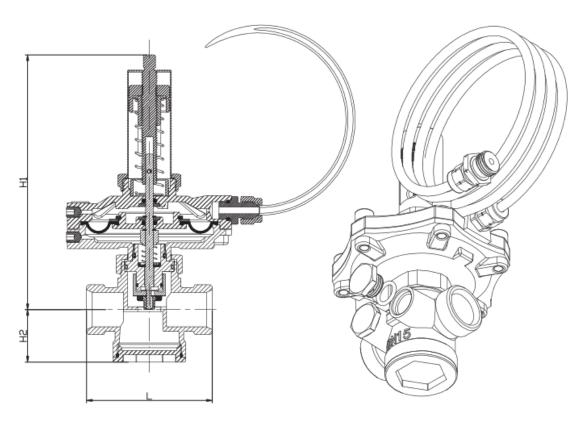
# VBG53.2XXX

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# **Differential Pressure Control Valve**

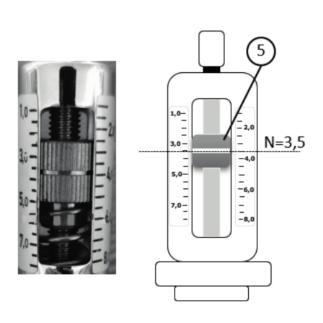
DN 15-50, PN 20 Adjustable set point 5-30kPa



## **Technical Data & Dimensions**

DN, mm	KVS	Rp ISO7-1	L,mm	H1,mm	H2,mm
15	1.9	Rp 3/4	66	133.5	27.5
20	2.9	Rp 1	76	133.5	27.5
25	5.3	Rp 11/4	76	133.5	27.5
32	9.3	Rp 11/2	114	151	37
40	15	Rp 2	132	161	43.7
50	15	Rp 21/2	140	161	43.7

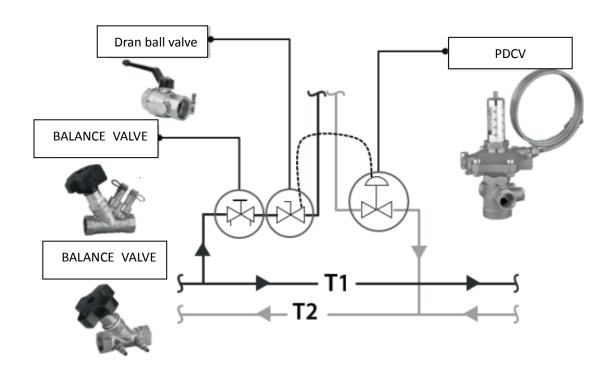
Operating pleassure	DN15 PN16, DN20-50—PN20		
Working temperature	0 ℃ to 120 ℃		
Transport and storage temperatures	-40 °C to 70 °C		
BODY	BRASS		
Membrane	EPDM		
Pulse tube	Copper 1m		

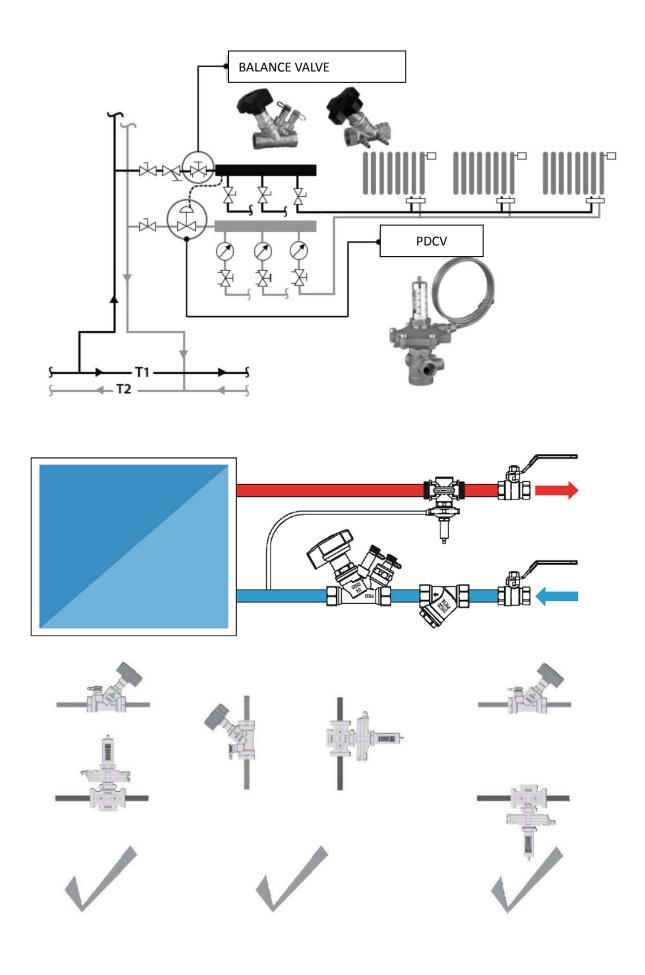


Setting	Pressure Change	
1	5	
<u> </u>		
1.5	7.15	
2	9.3	
2.5	11.45	
3	13.6	
2.5	15.75	
4	17.9	
4.5	20.05	
5	22.2	
5.5	24.35	
6	26.5	
6.5	28.7	
7	30.8	
7.5	33	
8	35	

#### Installation

The valve is fitted in the return in any position. The arrow on the valve body should align with the direction of flow. It is recommended that an isolation valve is fitted both upstream and downstream of the differential pressure controller





#### **Function description**

The differential pressure controllers are used to stabilize the differential pressure in heating and cooling circuits, which ensures that the heating consumer is independent of dynamic fluctuations in the riser.

For the presetting of the differential pressure controller,

the pressure loss  $\Delta P$  of the riser (of the branch, of the system) is used.

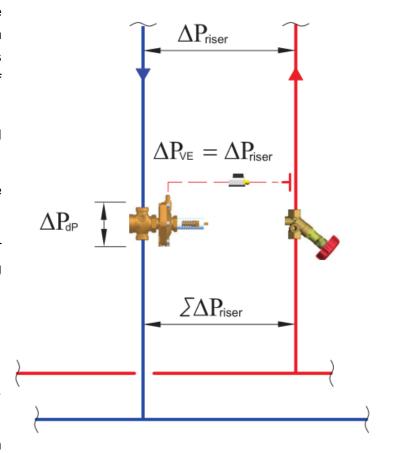
The total pressure loss of the riser  $\Sigma\Delta$ Priser [kPa] is calculated using the following formula:

 $\Sigma\Delta P$  riser =  $\Delta P$  riser +  $\Delta P$  dP

in which:

 $\Delta~\mathrm{P}~$  dP - pressure loss of the DP controller. A minimum  $\Delta P$  dP of

10 kPa is recommended for optimal function



### Warning notices

The valves must be installed for the correct application using clean fittings. strainer should be fitted to prevent impurities.

### **Test points**

Two test points are fitted next to each other. This arrangement ensures the best accessibility and optimal connection of measuring devices in all installation positions