

Climate
Control

IMI TA

BPV



Differential pressure relief valves
Proportional relief valve

BPV

Used in heating and cooling systems, the BPV proportional relief valve works quietly to ensure a minimum flow level in the pump while maintaining the desired supply temperature when operating at low loads.

Key features

Adjustable set-point

For accurate differential pressure control.

Shut-off function

For easy maintenance.

AMETAL®

Dezincification resistant alloy that guarantees a longer valve lifetime, and lowers the risk of leakage.



Technical description

Applications:

Heating and cooling systems
Tapwater systems

Function:

Proportional relief
Adjustable differential pressure (Δp)
Shut-off

Dimensions:

DN 15-32

Pressure class:

PN 20

Setting range:

10-60 kPa

Temperature:

Max working temperature: 120°C
Min working temperature: -20°C

Materials:

Valve body: AMETAL®
Bonnet: AMETAL®
Cone: PTFE coated AMETAL®
Stem: AMETAL®
Union nuts: Brass
Sleeve: Brass
Cap: Brass
Gaskets: Fiber-based aramid
Springs: Stainless steel
O-rings: EPDM rubber
Guide ring: PTFE

AMETAL® is the dezincification resistant alloy of IMI.

Marking:

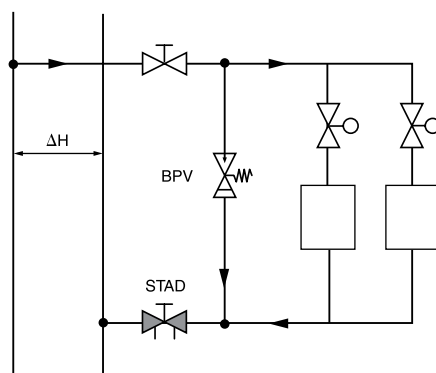
Valve type, DN, inch size and flow direction arrow.

Connection:

Internal thread according to ISO 228, thread length according to ISO 7-1.

Installation

Application example

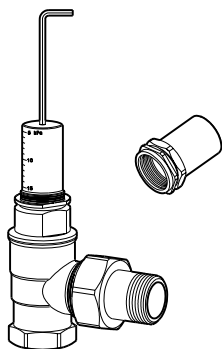


In installations with radiator valves, in which many of the radiator valves have closed, a big part of the pump head will affect the valves since the pressure drop in pipes and accessories has decreased. If the available differential pressure is higher than 30 kPa, noise may occur.

Install the BPV in the circuit after the balancing valve and between the supply and return pipe. The BPV is adjustable and opens at the preset differential pressure, making it possible to maintain desired pressure and flow in the distribution system. By that, the temperature in the pipes is also maintained and the pump is ensured a minimum flow.

Setting

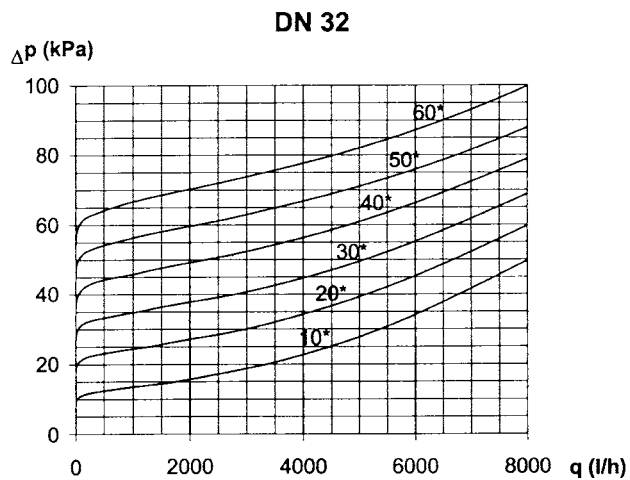
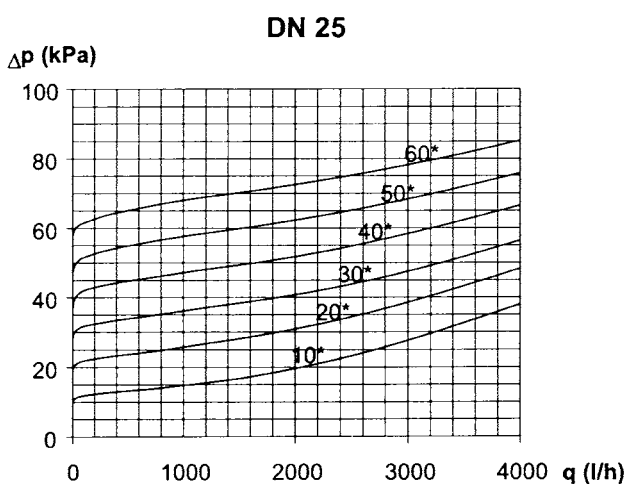
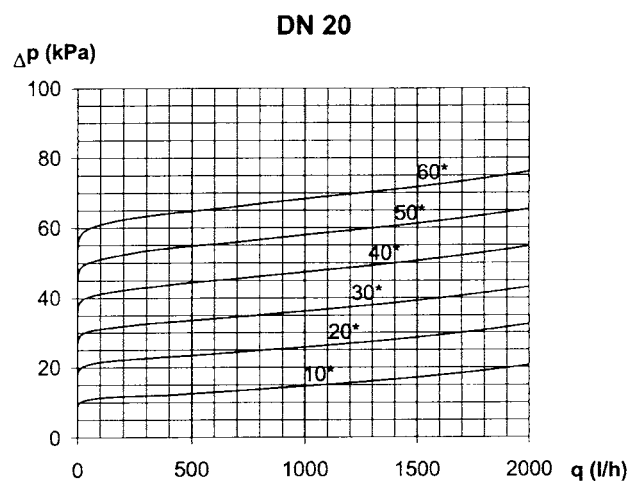
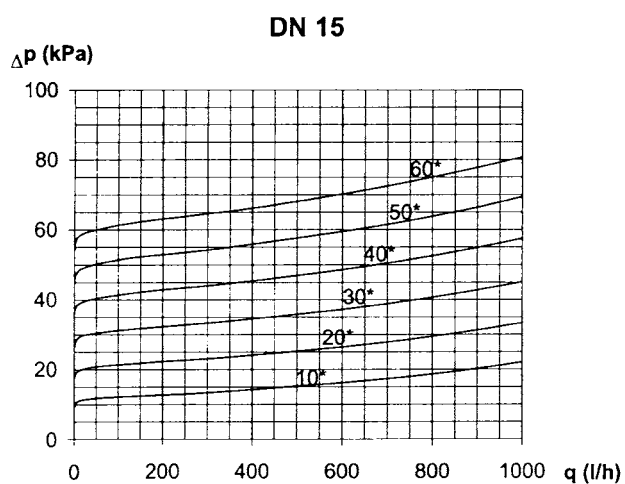
Use a 3 mm Allen key to adjust the BPV valve to operate at the required differential pressure.



Diagram

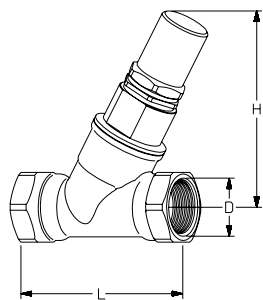
Valve characteristics

Adjust the BPV valve to the required differential pressure (10-60 kPa).
The valve characteristics will be as shown in the diagrams below.



*) Differential pressure setting.

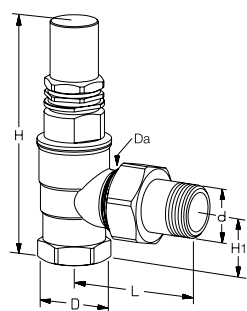
Articles



Straight

10-60 kPa

DN	D	L	H	EAN	Article No
15	G1/2	70	93	7318792851605	52 198-315
20	G3/4	85	93	7318792851704	52 198-320
25	G1	98	103	7318792851803	52 198-325
32	G1 1/4	112	105	7318792851902	52 198-332



Angle

10-60 kPa

DN	d	D	Da	L	H	H1	EAN	Article No
20	R3/4	G3/4	M34x1,5	70	122	33	7318792851308	52 198-020
25	R1	G1	M40x2,0	83	138	41	7318792851407	52 198-025

BPV DN 15 and DN 20 can be connected to smooth pipes with KOMBI compression couplings. See catalogue leaflet KOMBI.