

DN	65	13
	80	13
	100	13

Fig. 1

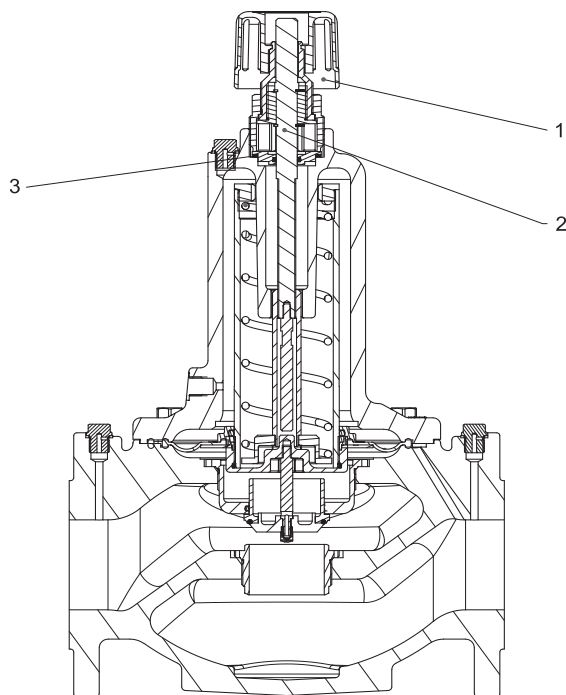


Fig. 2

n	ASV-PV DN 65 - 100		
	0.2-0.4 (bar)	0.35-0.75 (bar)	0.6-1.0 (bar)
0	0.40	0.75	1.00
1	0.39	0.74	0.99
2	0.38	0.73	0.98
3	0.37	0.72	0.97
4	0.36	0.71	0.96
5	0.35	0.70	0.95
6	0.34	0.69	0.94
7	0.33	0.68	0.93
8	0.32	0.67	0.92
9	0.31	0.66	0.91
10	0.30	0.65	0.90
11	0.29	0.64	0.89
12	0.28	0.63	0.88
13	0.27	0.62	0.87
14	0.26	0.61	0.86
15	0.25	0.60	0.85
16	0.24	0.59	0.84
17	0.23	0.58	0.83
18	0.22	0.57	0.82
19	0.21	0.56	0.81
20	0.20	0.55	0.80

n	ASV-PV DN 65 - 100		
	0.2-0.4 (bar)	0.35-0.75 (bar)	0.6-1.0 (bar)
21		0.54	0.79
22		0.53	0.78
23		0.52	0.77
24		0.51	0.76
25		0.50	0.75
26		0.49	0.74
27		0.48	0.73
28		0.47	0.72
29		0.46	0.71
30		0.45	0.70
31		0.44	0.69
32		0.43	0.68
33		0.42	0.67
34		0.41	0.66
35		0.40	0.65
36		0.39	0.64
37		0.38	0.63
38		0.37	0.62
39		0.36	0.61
40		0.35	0.60

Factory presetting

Δp setting range (bar)	bar
0.2 - 0.4	0.30
0.35 - 0.75	0.60
0.6 - 1.0	0.80

Fig. 3



Automatic balancing valves ASV-PV is used together with shut-off and measuring valve MSV-F2 to control the differential pressure in risers where the radiator valves have presetting facilities.

ASV-PV maintain constant differential pressure across the riser.

Max. working pressure 16 bar
Differential pressure
across valve 0.1 - 2.5 bar (10-250 kPa)
Max. flow temperature 120 °C

Installation

ASV-PV must be installed in the return pipe. The flow must be in the direction of the cast-in arrow.
It is recommended that an FV filter be installed in the system supply pipe. The impulse tube must be fitted on the flow pipe, e.g. via an MSV-F2 valve. The tube must be flushed through before being fitted on the + connection of the ASV-PV automatic balancing valves. ASV-PV must in addition be installed as determined by installation conditions.

Air vent

Release the knob to deair the valve (3, Fig. 2) to ensure proper function.

Shut-off

Turning the ASV-PV knob fully clockwise will shut off the riser (1, Fig. 2).

Pressure testing

Max. test pressure 25 bar

Setting/adjustment

The ASV-PV valves are sold in four different Δp setting ranges. The valves are factory-set to a defined value as described on Factory pressetting table on Fig. 3. Use the following procedure to set the desired differential pressure:
the setting on ASV-PV can be changed by turning the setting spindle (2, Fig.2). Turning the spindle clockwise increases the setting; turning it counter clockwise reduces the setting.
If the setting is not known, turn the spindle fully clockwise. With this the setting on ASV-PV is at maximum value within setting range. Now turn the spindle a number of times (n) as described in Fig. 3 until the required differential pressure setting is obtained.

Note: Do not turn the spindle more than 20/40 turns as it will become disengaged.

Starting

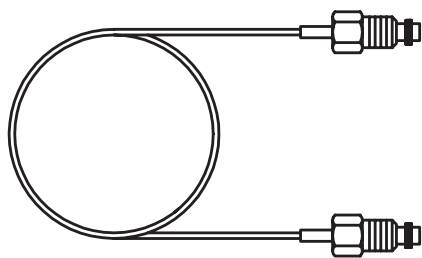
The system shall be ventilated at the highest point.

Note! If this procedure is not followed, ASV-PV may become locked in closed position even if the valve is fully opened.

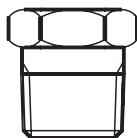
Fault location

Check the following if the riser valve does not function correctly:

1. Is the flow direction through the valve correct?
2. Is the impulse tube fitted correctly and are any needle valves open?
3. Is the valve shut-off open?



Impulse tube 2.5 m



Nipple for connecting impulse tube on other valve, pipeline G 1/16 - R 1/4



Adapter large ASV (for use with MSV-F2, connected to measuring hole, it allows connection of impulse tube from ASV while measuring the pressure drop or flow)