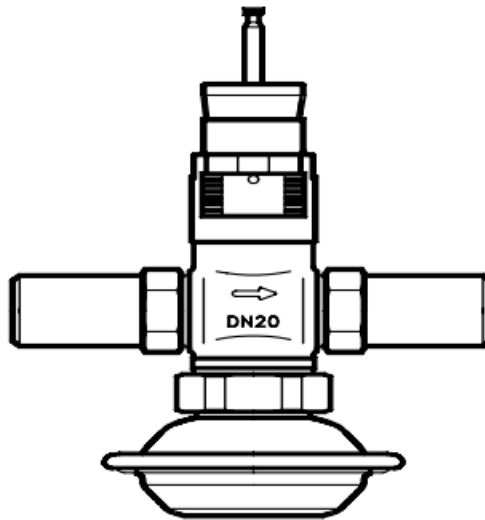


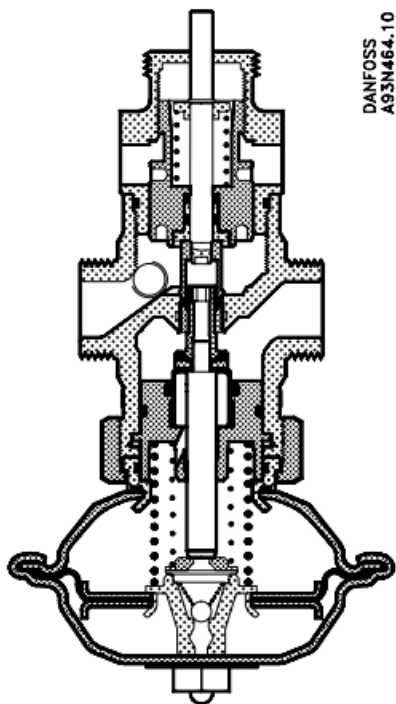
## Danfoss PN 16 Self Acting Flow Control Instructions

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### Danfoss PN 16 Self Acting Flow Control







**AVQM - PN 16/25**

### **Starting**

Gradually open flow line shut-off cock before opening return line shut-off cock

### **Pressure testing**

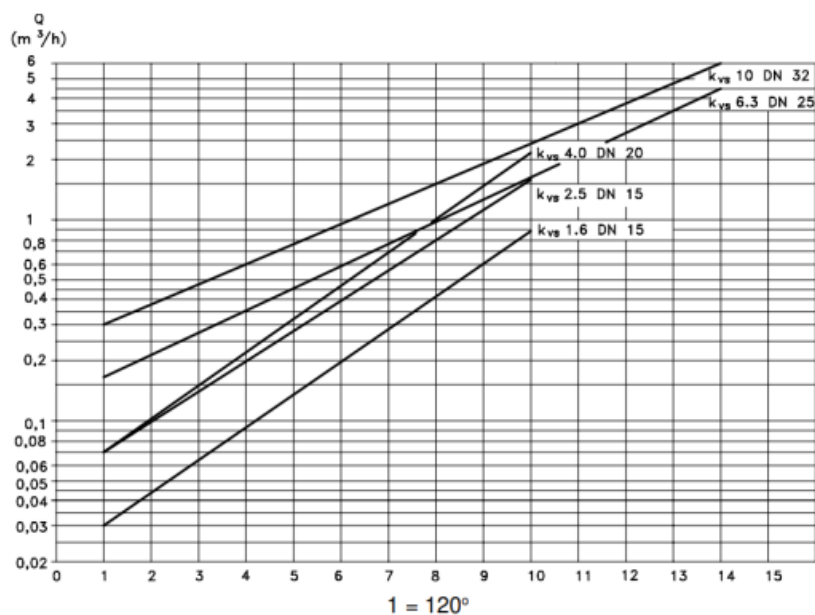
**Max. test pressure:** PN 16 = 25 bar, PN 25 = 40 bar.

### **Flow adjustment**

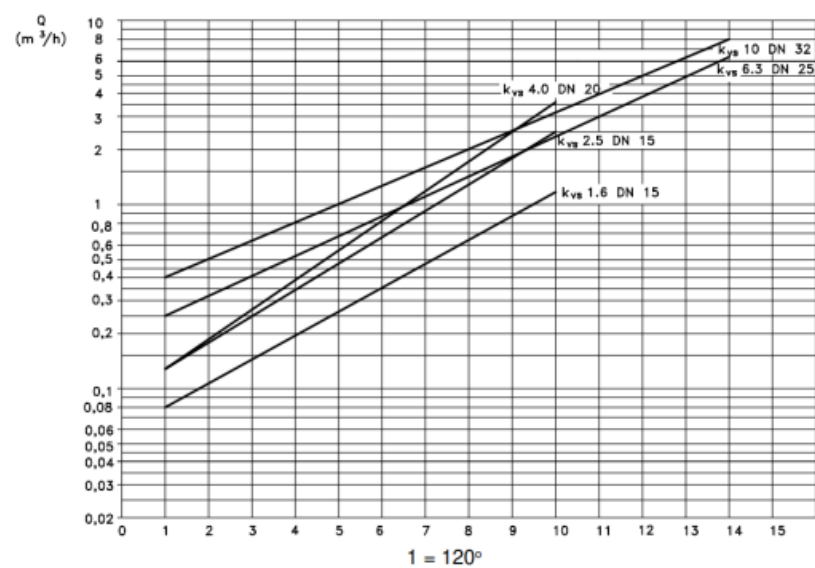
All district heating connections and bypass, if any, must be open to achieve max. flow. Flow is adjusted either with or without motor mounted onto AVQM.

#### **Without motor**

Setting diagrams (see 3,  $\Delta p_b = 0.2$  bar and 3a,  $\Delta p_b = 0.5$  bar) show required flow depending on scale setting 1 to 10 (14) from closed position (see 4a). Use the tool delivered with the AVQM (see 4b) for turning adjustment screw clockwise until it cannot be turned any further (min. flow). Flow can be roughly adjusted in turning adjustment screw counter-clockwise.

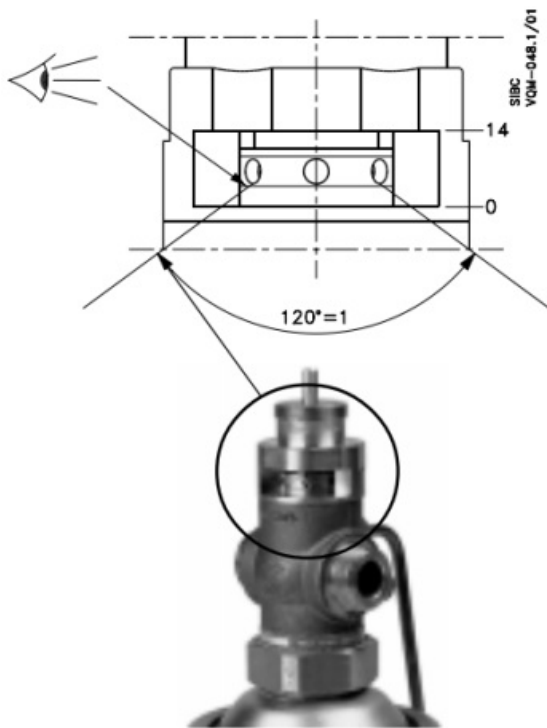


3  $\Delta p_0 = 0.2$  bar



3a  $\Delta p_0 = 0.5$  bar

1 - 10 = DN 15 - 20  
1 - 14 = DN 25 - 32



**4a**

#### **With motor**

Turn adjustment screw to max. setting (see 4b) and the valve will be opened electrically or manually to ensure required flow, then set adjustment screw on required flow. Without flowmeter it might be necessary to readjust flow with adjustment screw and motor.



**4b**

Use enclosed plate for covering flow setting. Cover plate is pushed across setting windows (see 4c) and sealed (see 4d)



**4c**



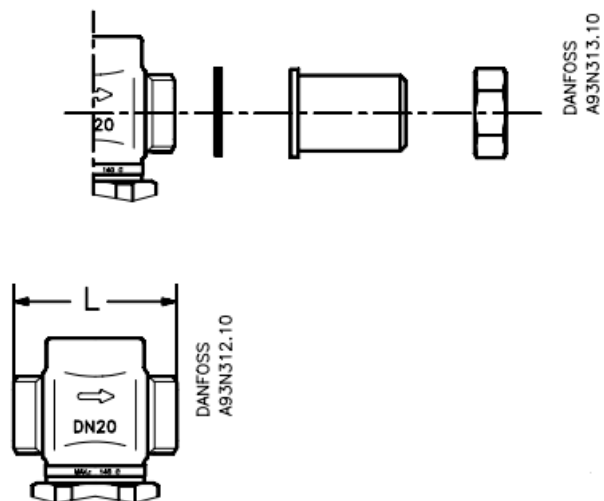
**4d**

### **Fault location**

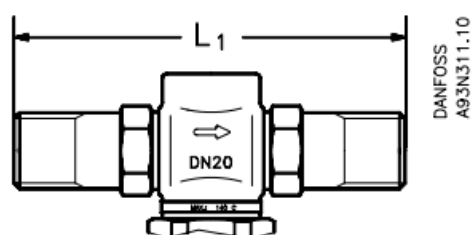
If the control does not function as required, check whether valve body is correctly fitted and whether the impulse tube is blocked.

### **Dimension**

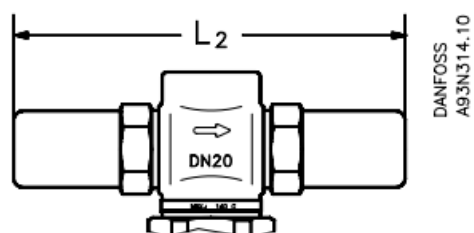
DN	L
15	65 mm
20	70 mm
25	75 mm
30	100 mm



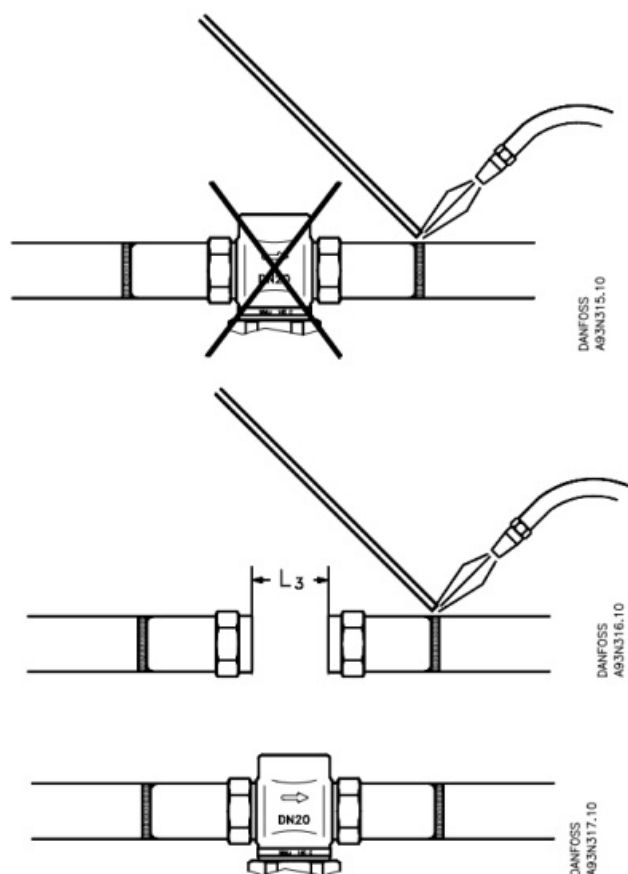
DN	L1
15	131 mm
20	142 mm
25	159 mm
32	196 mm



DN	L2
15	139 mm
20	154 mm
25	159 mm
32	184 mm



DN	L3
15	69 mm
20	74 mm
25	79 mm
32	104 mm



## Service

There must be no pressure on the system when dismantling the control.  
Therefore the control must be disconnected.

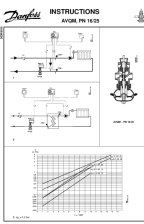
## Spare parts



Description	Code No.
Diaphragm section for AVQM	003H2305
Valve insert, kvs = 1.6 m <sup>3</sup> /h	003H2310
Valve insert, kvs = 2.5 m <sup>3</sup> /h	003H2311
Valve insert, kvs = 4.0 m <sup>3</sup> /h	003H2312
Valve insert, kvs = 6.3 m <sup>3</sup> /h	003H2313
Valve insert, kvs = 10.0 m <sup>3</sup> /h	003H2314
Contr. valve kvs = 1.6 m <sup>3</sup> /h	003H2336
Contr. valve kvs = 2.5 m <sup>3</sup> /h	003H2337
Control valve kvs = 4.0 m <sup>3</sup> /h	003H2338
Control valve kvs = 6.3 m <sup>3</sup> /h	003H2339
Control valve kvs = 10.0 m <sup>3</sup> /h	003H2340



## Documents / Resources

	<p><a href="#">Danfoss PN 16 Self Acting Flow Control</a> [pdf] Instructions</p> <p>003R9105, 003H2305, 003H2310, 003H2311, 003H2312, 003H2313, 003H2314, 003H2336, 003H2337, 003H2338, 003H2339, 003H2340, PN 16 Self Acting Flow Control, PN 16, Self Acting Flow Control, Acting Flow Control, Flow Control</p>
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## References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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