Data sheet

Flow director 013G1522 for tube segment radiators - to be used with integrated valve 013G1382

Application

Flow director 013G1522

The Danfoss flow director 013G1522 is designed to be used with Danfoss integrated valve type 013G1382 for incorporation into tube segment radiators.

Tube segment radiators are constructed by a series of elements, which are welded together. The first segment is used as inlet pipe, while return is through the bottom of the second segment.

When integrated valves are used in tube segment radiators, the water flow needs to be directed correctly through the valve to avoid noise problems. This is made with the Danfoss flow director.

Code nos. and technical data

Flow director

Flow director type	Connection radiator	Connection integr. valve	Max. water temperature	**Code no.**
For tube segment radiators	1¼"	½"	120 °C	**013G1522**

Integrated valve for flow director

Valve type	Differential pressure [1]		Test pressure	Work. pressure	Max. water temp.	**Code no.**
	Recom.	Technical				
For Danfoss RA type sensors	0.05-0.2 bar	0.6 bar	16 bar	10 bar	120 °C	**013G1382**

[1] The technical differential pressure indicates the upper limit for a proper valve function. In most two-pipe systems the recommended differential pressure is sufficient. In order to achieve a noiseless function we recommend in smaller systems to apply automatic bypass valves or automatic balancing valves. If pump differential pressure exceeds the recommended max. valve differential pressure it is recommended that an automatic balancing valve type ASV-P/PV is added to the system.

Accessories and spare parts for integrated valve 013G1382	**Code no.**
Gland seal	**013G0290**
Protection cap (red)	**013G0951**

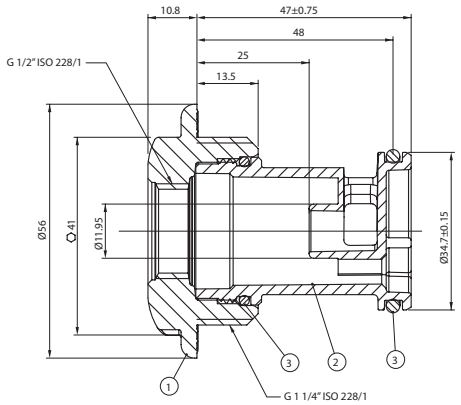
Pre-setting values, flow director + integrated valve

Flow director + integrated valve	Presetting								
	k_v-value [2]								k_{vs}
	1	2	3	4	5	6	7	N	N
Flow director 013G1522 + RA 013G1382	0.14	0.18	0.26	0.32	0.45	0.55	0.69	0.84	1.18

[1] k_v-values indicate the flow volume (Q) in m^3/h at a pressure loss (Δp) across the valve of 1 bar. $kv = Q / \sqrt{\Delta p}$. At setting N, the k_v-value in accordance with EN 215 can be stated as Xp = 2 K. At lower preset values, Xp will be reduced until approximately Xp 0.5 at presetting 1. The table shows the average measured values for integrated valves with radiator. The k_{vs}-values indicate the valve capacity, when the valve is fully open. If a remote temperature adjuster is used, the P-band is increased by a factor of 1.1. If a liquid filled radiator thermostat is used, the P-band is increased by a factor of 1.6.

Design and dimensions

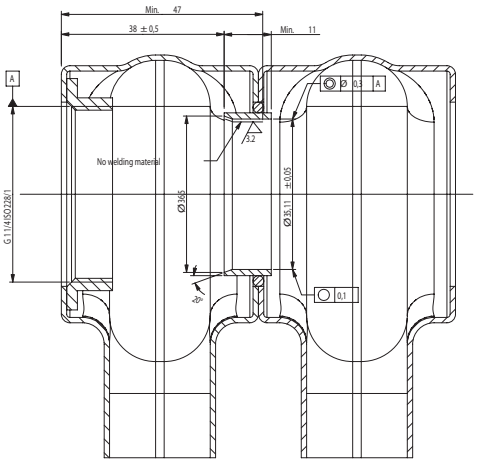
Flow director 013G1522



Materials

1. Plug	Nickel plated steel
2. Flow director body	PPS
3. O-ring	EPDM

Radiator dimensions



Capacities

Flow director 013G1522 + integrated valve 013G1382