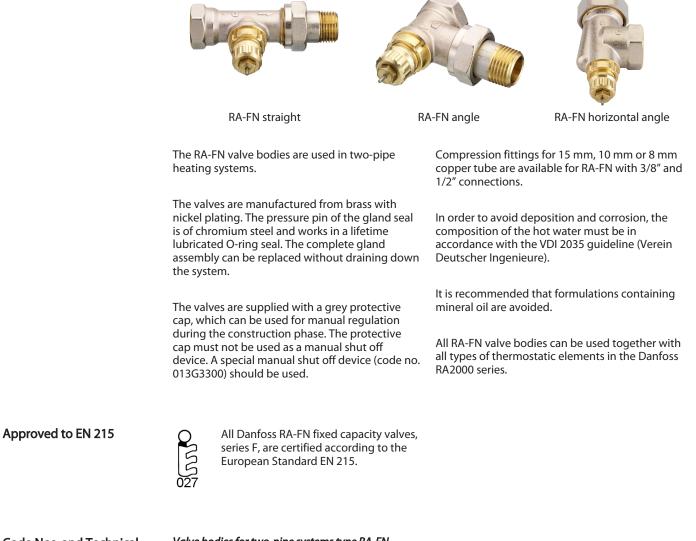


Data Sheet

Fixed Capacity ValvesType RA-FN (Series F)

Application



Code	Nos.	and	Technical
Data			

Valve bodies for two-pipe systems type RA-FN (series F)

Туре	Design		ections		, value essure d		Max. working	Code no.			
		Inlet	Outlet	0.5K	1.0K	1.5K	2.0K	k _{vs}	temp.		
RA-FN 10	angle	Rp 3/8	R 3/8	0.17	0.34	0.47	0.56	0.65	120 °C	013G0001	
RA-FN 10	straight	Rp 3/8	R 3/8	0.17	0.34	0.47	0.56	0.65	120 °C	013G0002	
RA-FN 10	horizontal	Rp 3/8	R 3/8	0.17	0.34	0.47	0.56	0.65	120 °C	013G0141	
RA-FN 15	angle	Rp 1/2	R 1/2	0.22	0.43	0.57	0.73	0.90	120 °C	013G0003	
RA-FN 15	straight	Rp 1/2	R 1/2	0.22	0.43	0.57	0.73	0.90	120 °C	013G0004	
RA-FN 15	horizontal	Rp 1/2	R 1/2	0.22	0.43	0.57	0.73	0.90	120 °C	013G0143	



RA-FN 20	angle	Rp 3/4	R 3/4	0.30	0.58	0.83	1.04	1.40	120 °C	013G0005
RA-FN 20	straight	Rp 3/4	R 3/4	0.30	0.58	0.83	1.04	1.40	120 °C	013G0006
RA-FN 20	horizontal	Rp 3/4	R 3/4	0.25	0.50	0.67	0.80	1.00	120 °C	013G0145
RA-FN 25	angle	Rp 1	R 1	0.30	0.58	0.83	1.04	1.40	120 °C	013G0027
RA-FN 25	straight	Rp 1	R 1	0.30	0.58	0.83	1.04	1.40	120 °C	013G0028

Max. working pressure²⁾: 10 bar.

Max. differential pressure: 0.6 bar

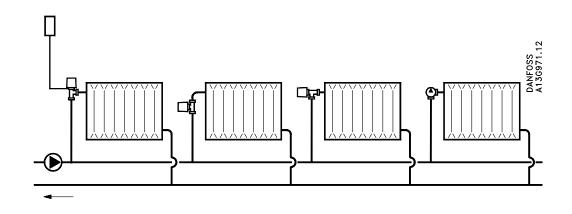
Test pressure: 16 bar

¹⁾ The k_v -value indicates the water flow (Q) in m3/h at a pressure drop (Δp) across the valve of 1 bar; $K_v = Q$: $\sqrt{\Delta p}$ The k_v -value is stated according to EN 215, at Xp = 2K i.e. the valve is closed at 2°C higher

room temperature. At lower settings the Xp value is reduced to 0.5K. The k_{vs} -value states the flow Q at a maximum lift, i.e. at fully open valve.

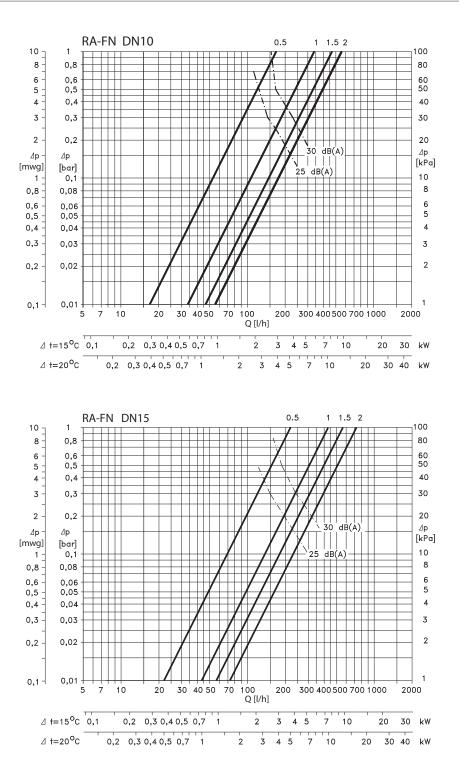
²⁾ Working pressure = static + differential pressure. The maximum differential pressure specified is the maximum pressure at which the valves give satisfactory regulation. As with any device which imposes a pressure drop in the system, noise may occur under certain flow/pressure conditions. To ensure quiet operation, maximum pressure drop should not exceed 30 to 35 kPa. The differential pressure can be reduced by the use of the Danfoss differential pressure regulators types AVD, AVDL, AVDS, IVD or ASV-P.

System



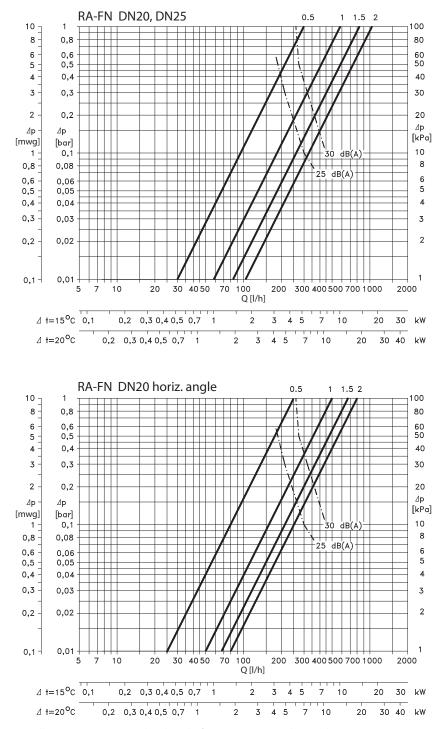


Capacities





Danfoss



All curves: capacity with p-band of 0.5K, 1K, 1.5K and 2K with RA 2000 sensor.

Note:

As with any device which imposes a pressure drop in the system, noise may occur under certain flow/pressure conditions. To ensure quiet operation, maximum pressure drop should not exceed 30-35 kPa (3-3.5 mwg).



Data Sheet

Fixed Capacity ValvesType RA-FN (Series F)

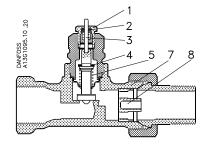
Design

A radiator thermostat consists of a thermostatic element of the RA 2000 series and an RA-FN valve.

The element and the valve body are ordered separately.

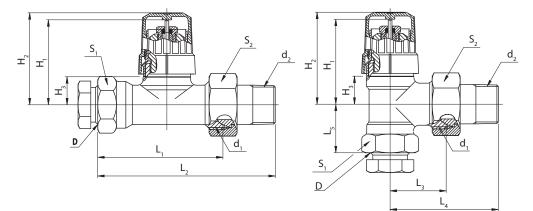
Materials in contact with water	
Valve body and other metal parts	Ms 58, brass
O-ring	EPDM
Valve cone	NBR
Pressure pin and valve spring	Chrome/Steel
Nozzle	РР

1. Gland seal	
2. O-Ring	
3. Pressure Pin	
4. Seal	
5. Regulation spring	
7. Valve body	
8. k _v -nozzle	



The RA-FN valves are nickle-plated on the outside.

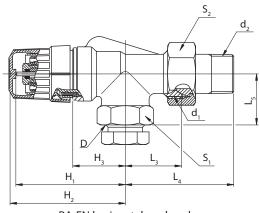
Dimensions



RA-FN straight valve

RA-FN angle valve





RA-FN horizontal angle valve

Series F	ISO 7-1				1	1 1	1	H1	H ₂	H ₃	Arc. flats		
	D	d ₁	d ₂		L ₂	L ₃	L ₄	L ₅	111	112	113	S ₁	S ₁
RA-FN 10	G 3/8	G 5/8 A	R 3/8	50	75	24	49	20	47	50	15	22	27
RA-FN 10 horiz.	G 3/8	G 5/8 A	R 3/8	-	-	26	51	22	61	64	29	22	27
RA-FN 15	G 1/2	G 3/4 A	R 1/2	55	82	26	53	23	47	50	15	27	30
RA-FN 15 horiz.	G 1/2	G 3/4 A	R 1/2	-	-	29	57	27	62	65	30	27	30
RA-FN 20	G 3/4	G 1/1 A	R 3/4	65	98	30	63	26	47	50	15	32	37
RA-FN 20 horiz.	G 3/4	G 1/1 A	R 3/4	-	-	34	66	30	63	66	31	32	37
RA-FN 25	G 1/1	G 1/1 A	R 1/1	90	125	40	75	34	47	50	15	41	46







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