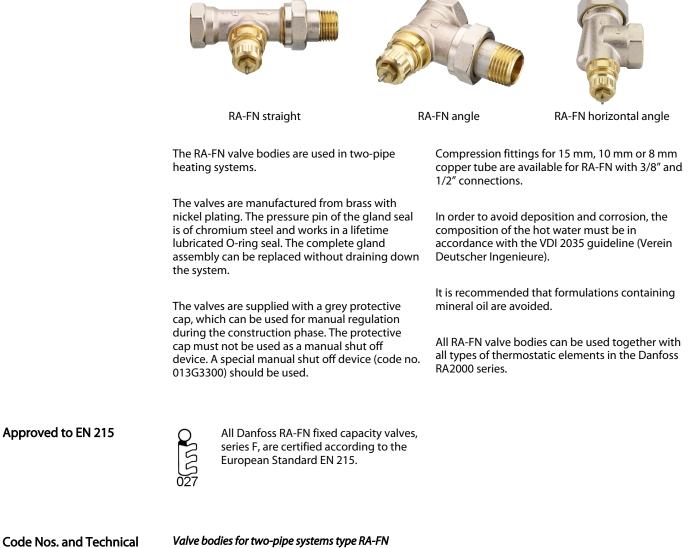


Data Sheet

Fixed Capacity ValvesType RA-FN (Series F)

Application



Code	Nos.	and	Technical
Data			

(series F)

Туре	Design Connections			, value essure c		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

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Fixed Capacity ValvesType RA-FN (Series F)

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.

maximum lift, i.e. at fully open valve.

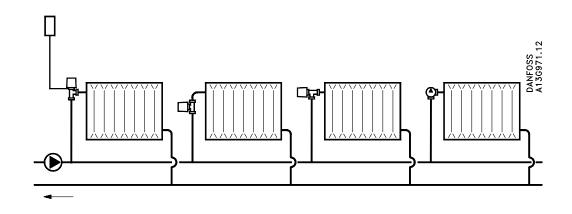
Max. differential pressure: 0.6 bar

Test pressure: 16 bar

¹⁾ The k_v -value indicates the water flow (Q) in m3/h at a pressure drop (Δp) across the value 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 value 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

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.

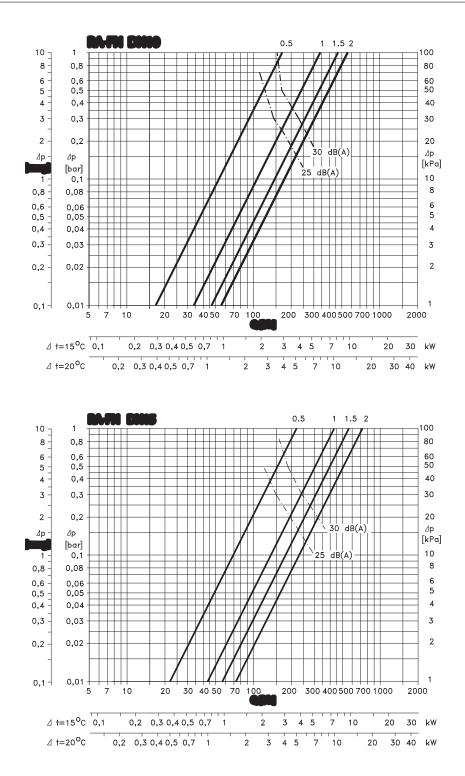
System



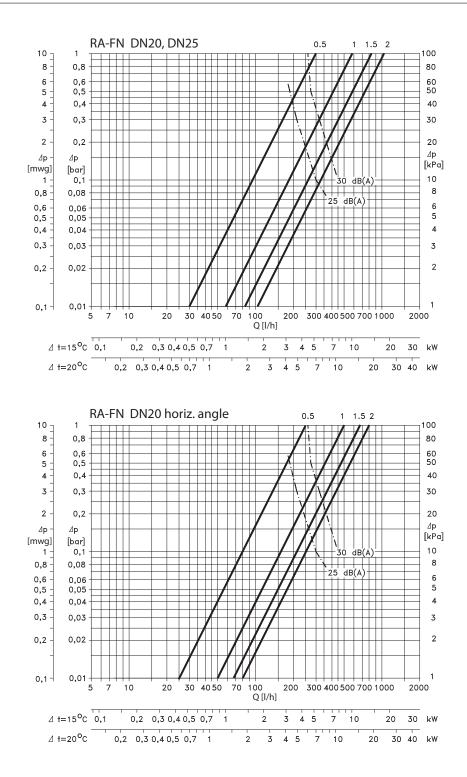


Data Sheet

Capacities



Danfoss



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)

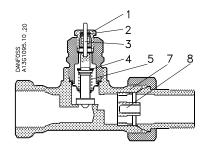
Design

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.

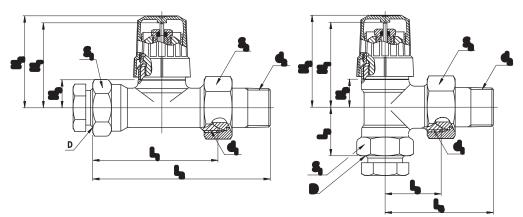
Materials in contact with water	
Valve body and other metal parts	Ms 58, brass
O-ring	EPDM
Valve cone	NBR
Pressure pin and valve spring	Chrome/Steel
Nozzle	РР

Gland seal
O-Ring
Pressure Pin
Seal
Regulation spring
Valve body
k_v-nozzle



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





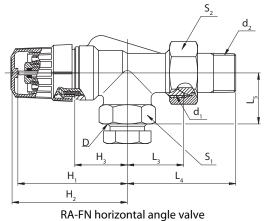
RA-FN straight valve

RA-FN angle valve

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Series F	ISO 7-1			1	1		1		H ₁	H ₂	ы	Arc. flats	
	D	d ₁	d ₂	L1	L ₂	L ₃	L ₄	L ₅	111	112	H ₃	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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