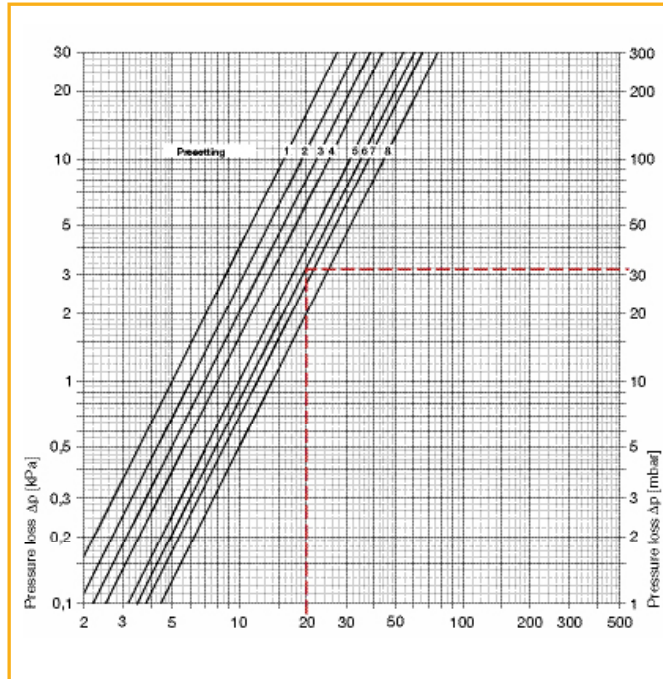


# Thermostatic inserts for radiators with integrated valves – Technical data

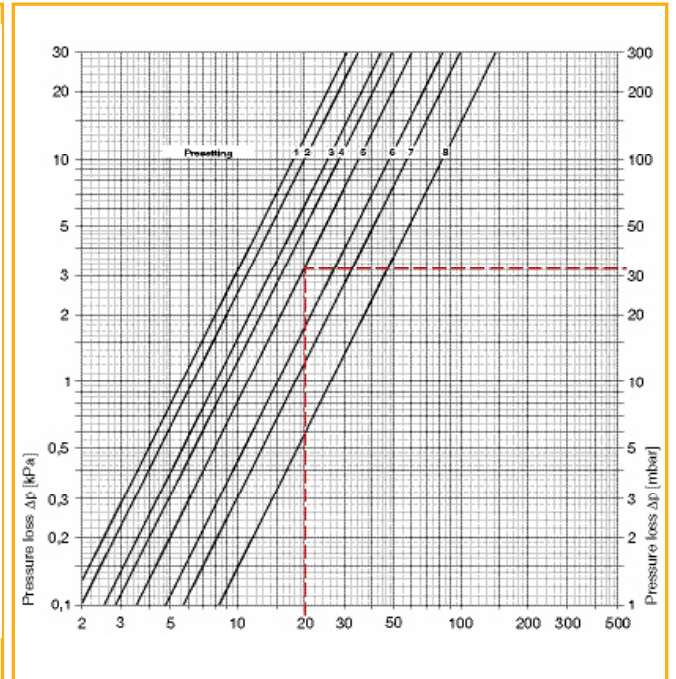
## Thermostatic insert VHF8S with 8 infinitely variable finest presetting values

Diagram for 4366

p-band [xp] 1,0 K



p-band [xp] 2,0 K



Radiator with integrated valves without connection fitting			Finest presetting Thermostatic insert								Permissible operating temperature TB <sup>*)</sup> [°C]	Permissible operating pressure PB [bar]	Permissible differential pressure at which the valve still closes Δp [bar]		
			1	2	3	4	5	6	7	8			Therm. head	EMOT/NC EMOtec/NC EMO 1/3 EMO EIB/LON	EMOT/NO EMOtec/NO
Thermostatic insert and thermostatic head	p-band xp 1,0 K	$K_V$ value [m <sup>3</sup> /h]	0,05	0,06	0,07	0,08	0,10	0,11	0,12	0,14	120	10	4,0	2,7	3,5
	p-band xp 2,0 K	$K_V$ value [m <sup>3</sup> /h]	0,06	0,06	0,08	0,09	0,11	0,15	0,18	0,26					
		$k_{VS}$ value [m <sup>3</sup> /h]	0,06	0,07	0,08	0,10	0,12	0,17	0,25	0,50					
		Flow tolerance ± [%]	42	42	37	36	35	32	30	10					

<sup>\*)</sup> With protective cap or actuator 100 °C.

### Calculation example

Target: Setting range

Given: Heat flow  $\dot{Q} = 350 \text{ W}$   
 Temperature spread  $\Delta t = 15 \text{ K (65/50 °C)}$   
 Pressure loss, radiator with integrated valves  $\Delta p_v = 32 \text{ mbar}$

Solution: Mass flow rate  $\dot{m} = \frac{\dot{Q}}{c \cdot \Delta t} = \frac{350}{1,163 \cdot 15} = 20 \text{ kg/h}$

Setting range from diagram:

At p-band 1,0 K: 6

At p-band 2,0 K: 5