

### Tender specification:

Oventrop valve inserts for radiators with integrated distributor an connection thread G 1/2.

### Technical data:

Operating temperature  $t_s$ : 2 °C up to 120 °C  
(for short periods up to 130 °C)  
Max. operating pressure  $p_s$ : 10 bar  
Max. differential pressure: 1 bar  
Medium: Water or suitable ethylene/propylene glycol water mixtures according to VDI 2035/ÖNORM 5195 (max. glycol proportion 50 %, ph value 6.5-10). Not suitable for steam, oily and aggressive fluids.

### Models:

### Item no.:

Type GH with 6 presetting values  
Range of setting visible from outside, presetting by use of the presetting key (item no. 1183961)  
with front connection 1018080  
with front connection for reversed supply and return pipe 1648077  
with seat diameter 16 H 11 1018082  
with internal O-ring 1018083

Type GHF with fine presetting

With concealed presetting, presetting by use of the presetting key (item no. 1180791)  
with front connection 1018090  
with seat diameter 16 H 11 1018097  
with internal O-ring 1018098

### Application:

The Oventrop valve inserts item no. 1018080, 1018090 and 1648077 are suitable for the following radiator types, e.g.:

-Arbonia (up to 2002) -DiaNorm (up to 2010) -Purmo (up to 2010)  
-Baufa -Dia-therm -Radson (up to 2010)  
-brema -HM-Heizkörper -Rettig (up to 2010)  
-DEF -Hoval -Runtal  
-Demrad -Manaut

The Oventrop valve inserts item no. 1018082 and 1018097 are suitable for the following radiator types, e.g.:

-DeLonghi -VEHA  
-Ribe

The Oventrop valve inserts item no. 1018083 and 1018098 are suitable for the following radiator types, e.g.:

-Caradon -Henrad -Superia (since 2005)  
-DURA -Korado -Brugman (since 2013)  
-Ferroli/IMA -Schäfer -Thor (since 2005)  
-Vasco

Other valve inserts for radiators are planned.

The connection thread for the thermostat is M 30 x 1.5. All Oventrop thermostats of the series "Uni XH", "Uni LH", "Uni SH", "vindo TH" and "pinox H" may be used.

Please ensure that fitting the inserts must be made under clean conditions. Screw the valve insert into the radiator and tighten with a 19 mm box spanner (tightening torque approx. 35 Nm).

Type GH: Setting 6 of the type GH corresponds to the normal setting (factory setting).

The hydronic values correspond to those of the insert 4324-03.300 of the company Heimeier.

Set type GH to the required presetting by using a 13 mm spanner or the Oventrop presetting key, item no. 118396.

The required setting must be in line with the marking.

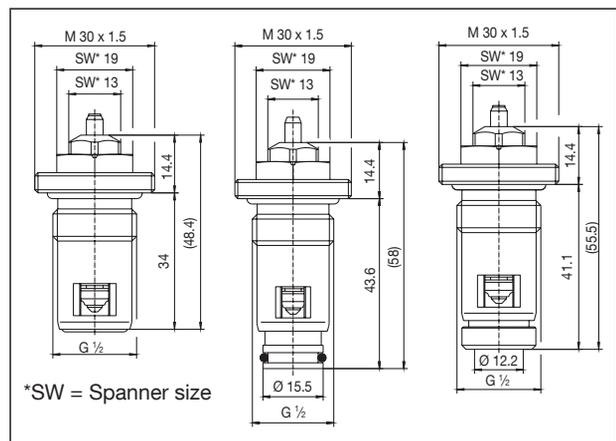
The flow ranges succeed uninterrupted, intermediate positions are neither required nor permissible.

Type GHF: The inserts type GHF are supplied in open position. The hydronic values correspond to those of the Oventrop thermostatic radiator valves "AF".

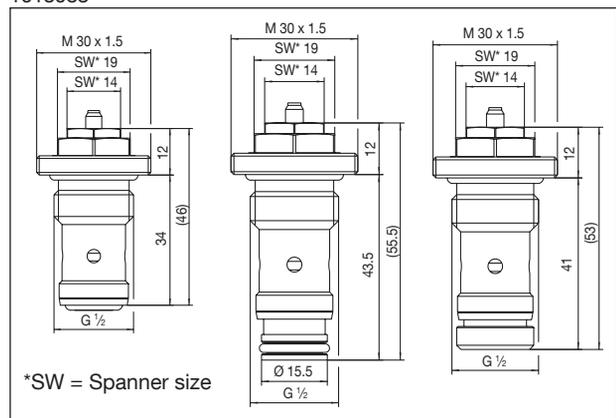
Set type GHF to the required presetting buy using the Oventrop presetting key, item no. 118079.



Valve inserts for radiators with integrated distributor



Dimensions type GH, item no. 1018080/1648077, 1018082, 1018083



Dimensions type GHF, item no. 1018090, 1018097, 1018098

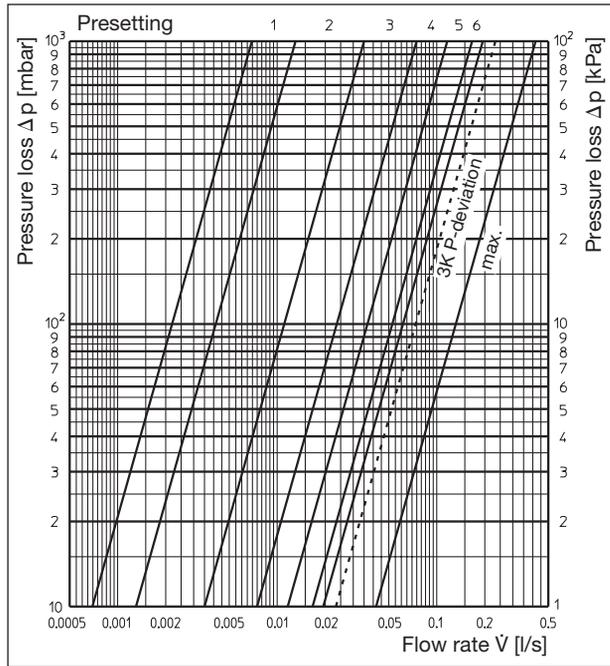
### Accessories:

Designation	Item no.:
Presetting key for type GH	1183961
Presetting key for type GHF	1180791
Thermostats "Uni XH", "Uni LH", "Uni SH", "vindo TH", "pinox H"	
Thermostats "Uni XH" and "Uni LH" with remote sensor	

**Valve inserts for radiators with integrated distributor**  
**Thermostat connection M 30 x 1.5**

**Performance data type GH:**

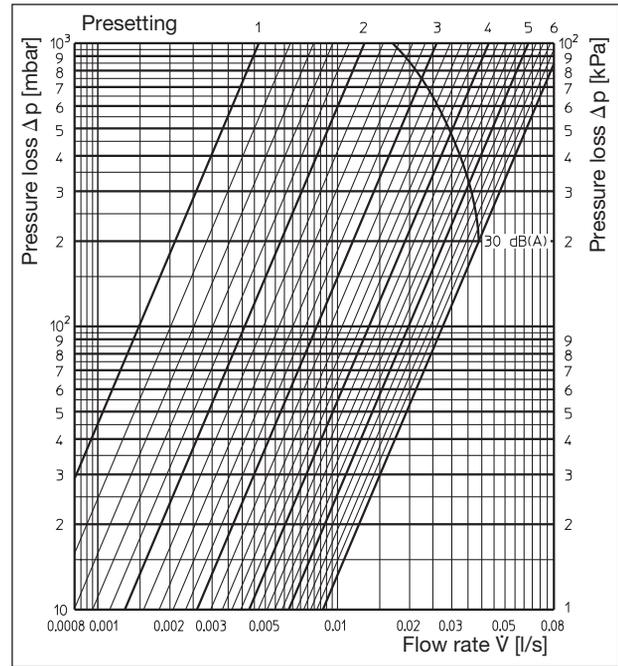
Chart: Flow rate depending on the pressure loss at



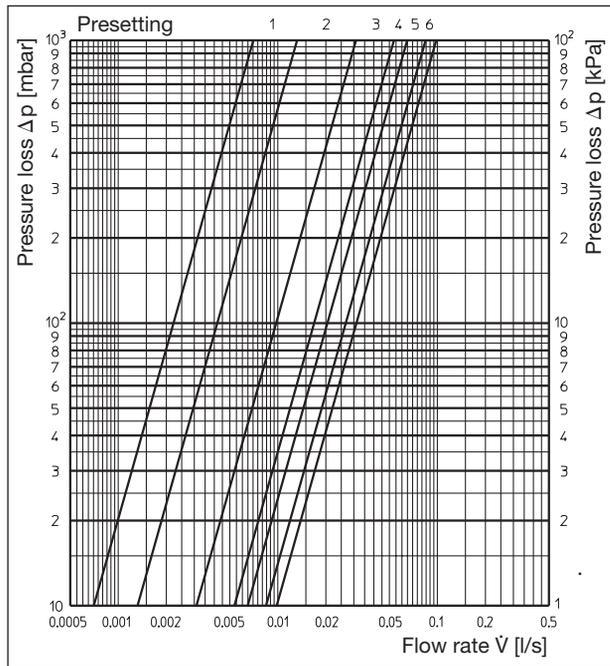
2 K P-deviation

**Performance data type GHF:**

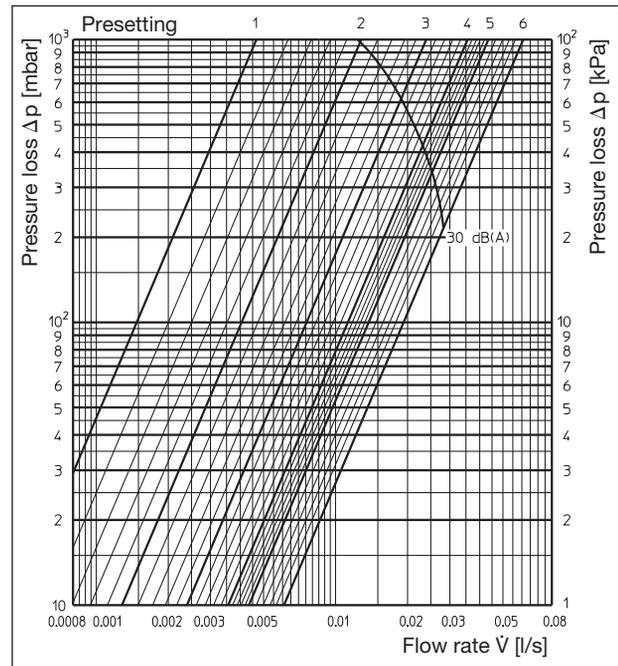
Chart: Flow rate depending on the pressure loss at



2 K P-deviation



1 K P-deviation



1 K P-deviation

Presetting	1	2	3	4	5	6
kv value at 1 K P-deviation	0.047	0.11	0.19	0.23	0.30*	0.35*
kv value at 1.5 K P-deviation	0.047	0.126	0.25	0.35	0.45*	0.53*
k <sub>v</sub> value at 2 K P-deviation	0.047	0.126	0.269	0.417	0.6*	0.7*
kv value at 3 K P-deviation						0.84
kvs						1.2

Presetting	1	2	3	4	5	6
k <sub>v</sub> value at 1 K P-deviation	0.017	0.047	0.088	0.131	0.16	0.22
kv value at 1.5 K P-deviation	0.017	0.047	0.095	0.152	0.20	0.29
k <sub>v</sub> value at 2 K P-deviation	0.017	0.047	0.095	0.152	0.228	0.32
kvs						0.37

\*Valve insert for reversed supply and return pipe, item no. 1648077: k<sub>v</sub> values approx. 10 % lower

Subject to technical modifications without notice.

Product range 1  
 ti 94-EN/10/MW  
 Edition 2017