# **Data sheet**

# Manifold Assemblies for 1-pipe systems Type RA-KE for floor connection Typ RA-KEW for wall connection



# **Application**



The manifold assemblies RA-KE and RA-KEW are versatile control units for all types of radiators with standard  $\frac{1}{2}$ " side connections.

RA-KE and RA-KEW valves are for 1-pipe pumped systems.

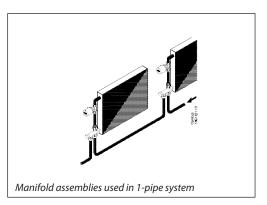
The manifold assembly includes a manifold valve body with shut off facility, a connection pipe and a radiator valve body.

The center distance between connection pipes is 35 mm, which allow system pipes to be connected using junction box.

Danfoss manifold assemblies can be used with all RA 2000, RA PLUS and RAW sensors as well as thermal actuators, type TWA and ABNM.

A wide range of compression fitting for steel, copper, PEX and AluPex piping allows fast and flexible installation.

To avoid deposits and corrosion the water quality should comply to VDI 2035 guidelines.



## Ordering and data

Product	Туре	Code no	Radiator connec- tion	System connec- tion ISO 228-1	K <sub>vs</sub> -values (m³/h)¹)	Max. operation pressure (bar)	Max. different. pressure <sup>2)</sup> (bar)	Test pres- sure (bar)	Max. water temp (°C)
Valve body with angle piece <sup>3)</sup>		013G3362			2,5		0,6		
Manifold valve RA-KE <sup>3)</sup>		013G3366	R 1/2			10		16	120
Manifold valve RA-KEW <sup>3)</sup>		013G3368		G ¾					
Connection pipe L 650 x ø 15 mm L 950 x ø 15 mm		013G3378 013G3377							
Set-pack for floor connection		013G3341	Valve body and manifold valve RA-KE						
Set-pack for wall connection		013G3343	Valve body and manifold valve RA-KEW						

<sup>1)</sup> Capacity of manifold assembly. Bypass through radiator: 35 %.

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, noisemay 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 using Danfoss differential pressure regulators.

 $<sup>^{\</sup>mbox{\tiny 3)}}$   $\,$  Incl compression fittings for connection pipe



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# **Manifold Assemblies for 1-pipe systems**

#### **Accessories and spare parts**

Product	Code no		
Gland seal, units of 10 pcs	013G0290		

The gland seal can be replaced with system in operation .

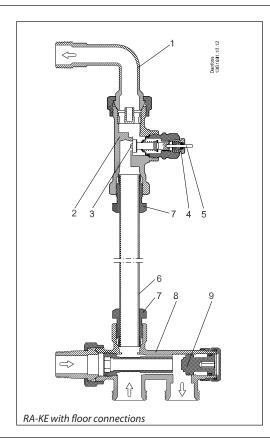
# Capacity

Manifold assemblies RA-KE and RA-KEW are designed for zones up to 9 kW at  $\Delta t = 20$ . The radiator share is 35 %.

In systems with RA-KE valves the flow is almost constant. In order to keep differential pressure low, it is recommended to use a differential pressure controller.

Please observe, that in systems with manifold assemblies not all radiators reach the capacities stated by their manufacturer. In case of doubt please contact the manufacturer for details.

#### Design



A manifold assembly is compiled by parts, which are oredred separately:

- Valve body, incl angle piece and compression fittings for connection pipe
- Connection pipe, 15 mm
- Manifold valve with bypass, incl compressions fittings for connection pipe
- Compression fittings for system connections

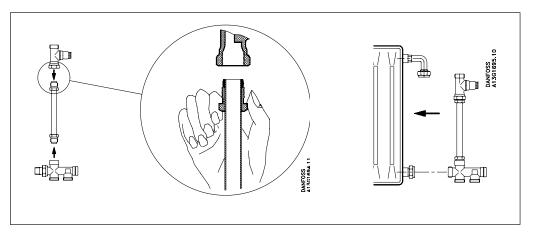
Alternatively valve body and manifold valves are available in setpacks

- 1. Angle
- 2. Valve body
- 3. Valve cone
- 4. Gland seal
- 5. Pressure pin
- 6. Connection pipe7. Compression fittings
- 8. Manifold valve
- 9. Shut off

## Materials in contact with water

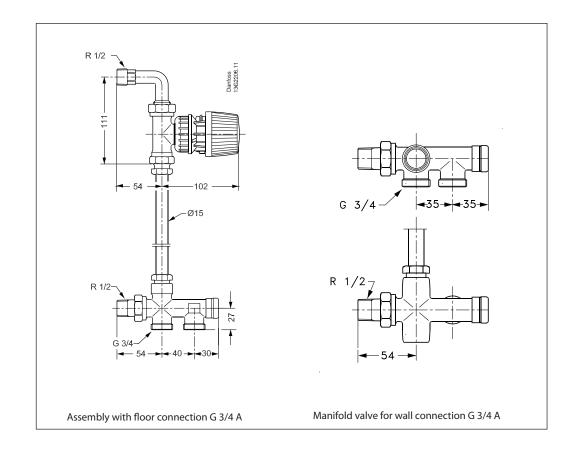
Spring seat	Zinnbronze		
O-rings	EPDM		
Valve cone	NBR		
Pressure pin and valve spring	Chrome steel		
Connection pipe	Steel		
Valves and other metal parts	Ms 58		

# Installation





# Dimensions







Data sheet