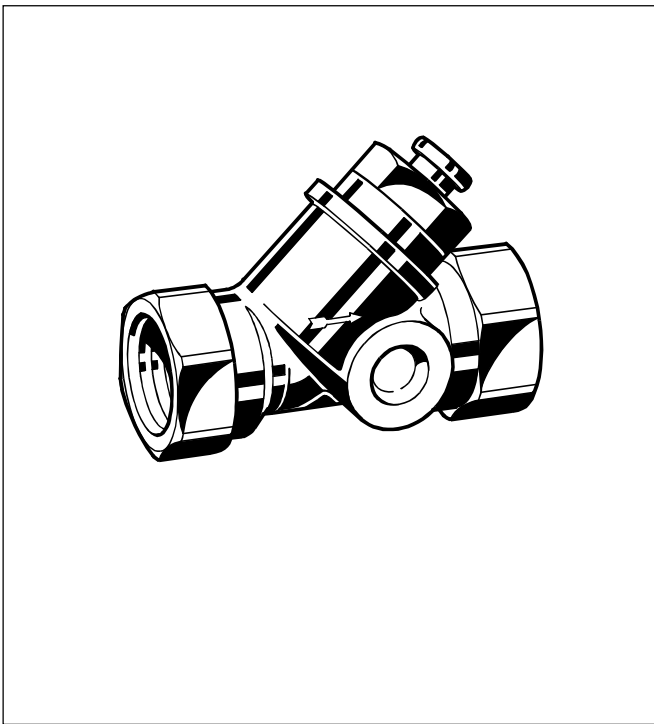


Kombi Valves

V9010 Kombi-RSV

CHECK VALVE

PRODUCT DATA



Application

Check valves are used to avoid gravitational circulation in hydronic heating and cooling systems.

Features

- Low opening pressure due to weight loaded cartridge
- Higher opening pressures on request
- Low flow resistance
- Robust, noise and flow optimized valve housing made of corrosion resistant red bronze Rg5
- Available up to DN 80

Specifications

Medium	Water or glycole-water mixture
pH-value	8...9,5
Operating temperature	2...130 °C (36...266°F)
Operating pressure	max. 16 bar (232 psi)
k_{vs} (cv)-values	see flow diagram on page 92
Opening pressure	10 mbar (0,145 psi)

Design

The check valve consists of:

- Valve housing DN10...DN20 with internal threads according to DIN2999 (ISO7) for threaded pipe, copper or precision steel pipe 10...22 mm using compression ring and screw (see 'Accessories')
- Valve housing DN25...DN80 with internal threads according to DIN2999 (ISO7)
- Valve insert with flat sealing

Materials

- Valve housing made of red bronze
- Valve insert made of brass
- Flat sealing made of EPDM

Function

The Kombi-RSV check valve opens when a sufficient pressure is applied to the cartridge of the valve. The cartridge is pressed open by the pressure and the heating or cooling medium can flow through the valve. When the pressure falls below the opening pressure of the Kombi-RSV or when pressure is applied from the wrong direction the valve cartridge closes and the flow is shut-off.

The Kombi-RSV has an opening pressure of 10 mbar (0,145 psi).

Dimensions and Ordering Information

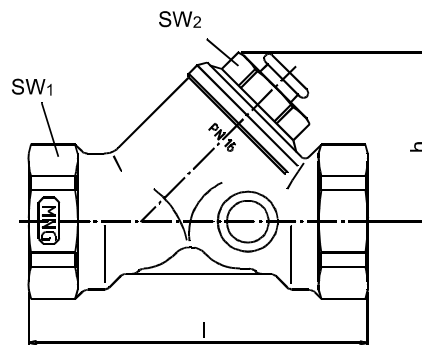


Fig. 1. Dimensions

Table 1. Dimensions and OS-Nos. (OS = ordering system)

DN	Pipe connection	kvs (cv)-value	Dimensions				OS-No.
			l	h	SW ₁	SW ₂	
10	Rp3/8"	2,0 (2,34)	60	40	22	19	V9010Y0010
15	Rp1/2"	2,0 (2,34)	65	40	27	19	V9010Y0015
20	Rp3/4"	6,0 (7,02)	75	45	32	19	V9010Y0020
25	Rp1"	6,0 (7,02)	90	45	41	19	V9010Y0025
32	Rp1 1/4"	14,5 (17,0)	110	60	50	27	V9010Y0032
40	Rp1 1/2"	14,5 (17,0)	120	60	55	27	V9010Y0040
50	Rp2"	44,5 (52,1)	150	80	70	36	V9010Y0050
65	Rp2 1/2"	44,5 (52,1)	180	105	85	41	V9010Y0065
80	Rp3"	73,0 (85,4)	200	110	100	41	V9010Y0080

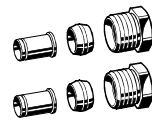
Accessories

Connection set consisting of compression screw and ring



3/8" x 10 mm	VA650A1010
3/8" x 12 mm	VA650A1012
1/2" x 10 mm	VA650A1510
1/2" x 12 mm	VA650A1512
1/2" x 14 mm	VA650A1514
1/2" x 15 mm	VA650A1515
1/2" x 16 mm	VA650A1516
3/4" x 18 mm	VA650A2018
3/4" x 22 mm	VA650A2022

Connection set consisting of 2 compression screws, 2 compression rings and 2 support inserts



3/8" x 12 mm	VA651A1012
1/2" x 12 mm	VA651A1512
1/2" x 15 mm	VA651A1515
1/2" x 16 mm	VA651A1516
3/4" x 18 mm	VA651A2018

NOTE: Support inserts are required for soft steel and copper pipe (pipe wall thickness 1 mm).

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Installation Examples

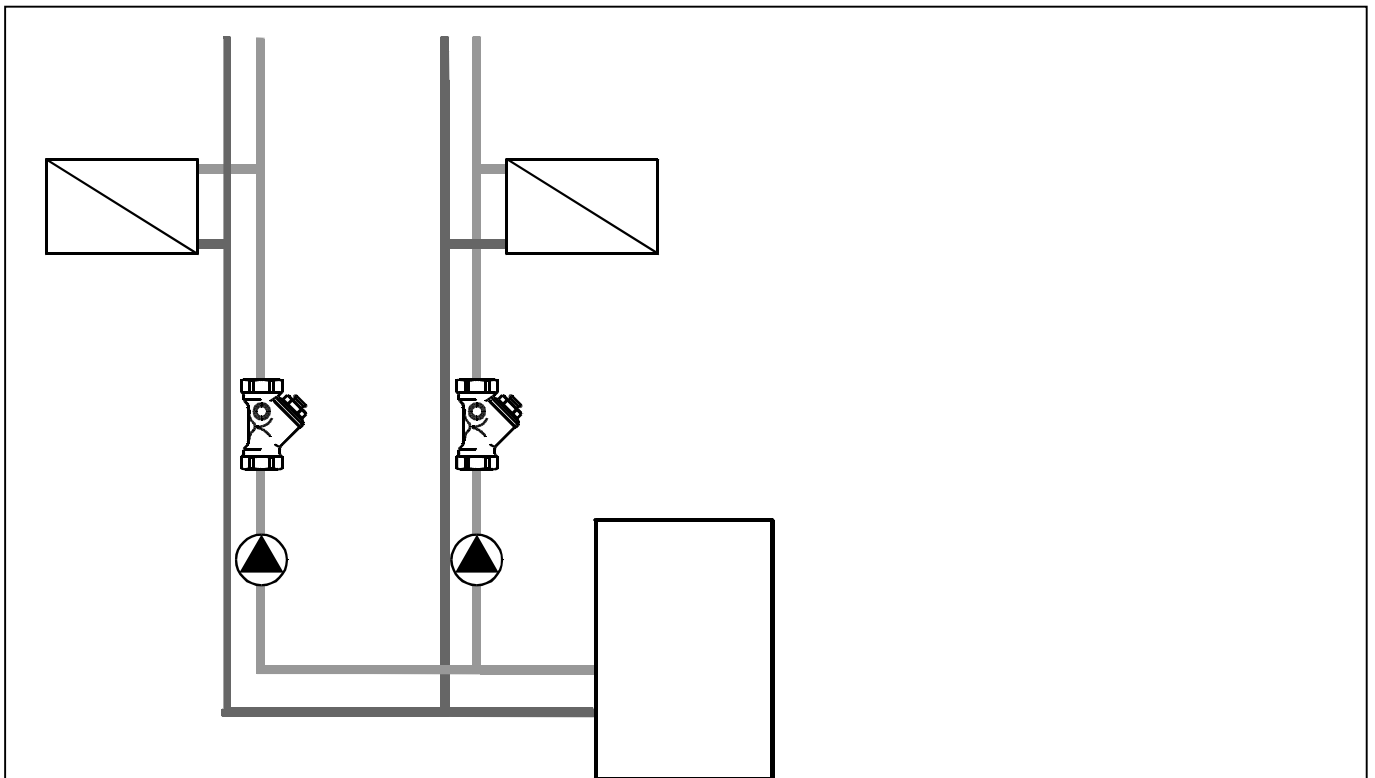


Fig. 2. Installation example

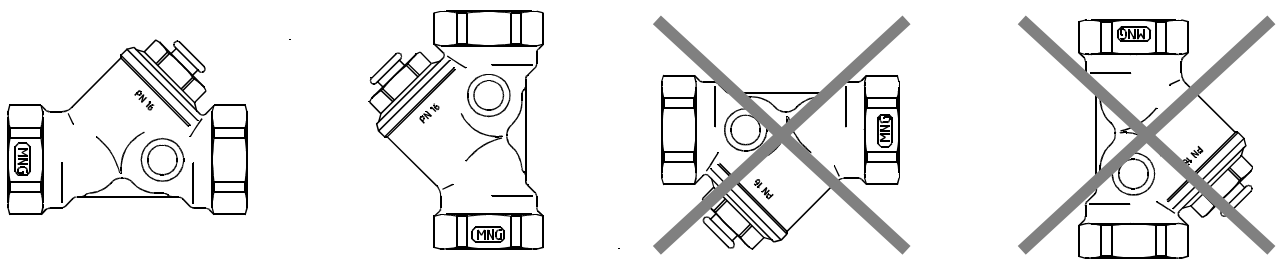


Fig. 3. Installation positions

Flow Diagram

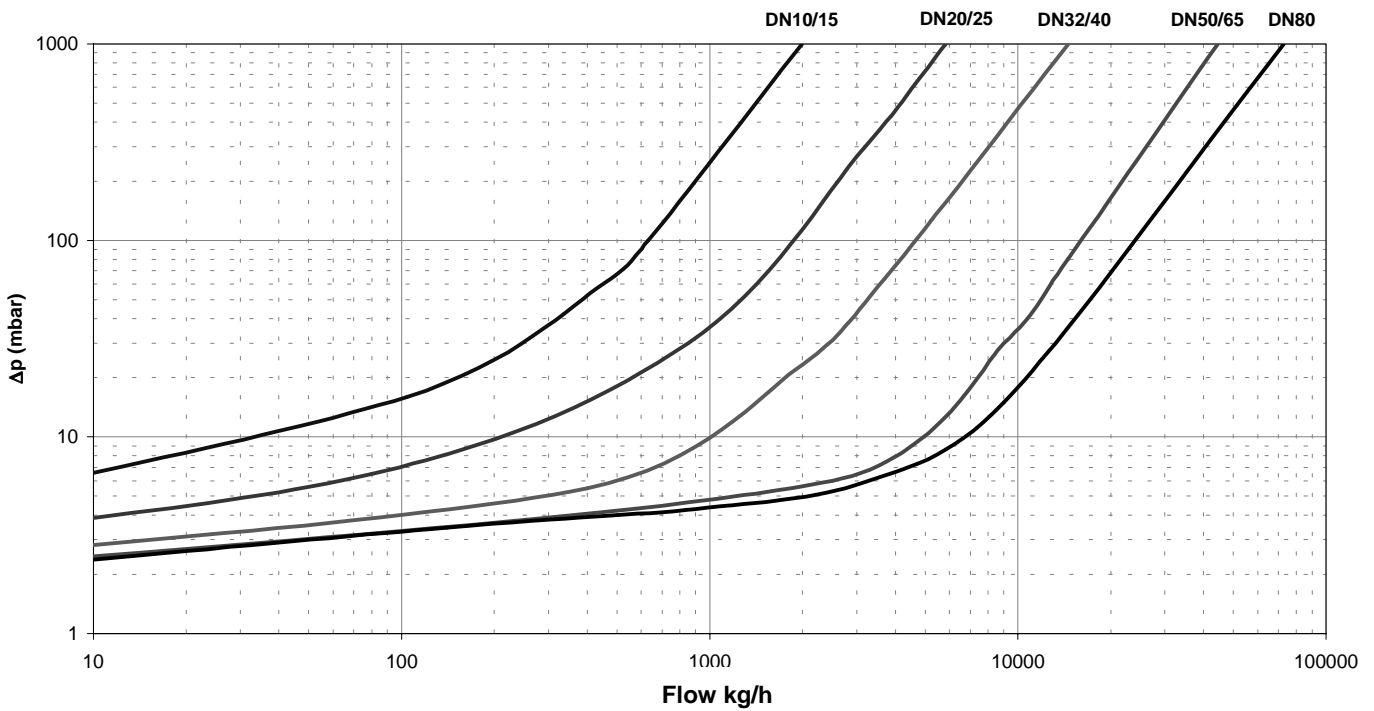


Table 2. k_{vs} - and cv -values

Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80
k_{vs}-value	2,0	2,0	6,0	6,0	14,5	14,5	44,5	44,5	73,0
cv-value	2,34	2,34	7,02	7,02	17,0	17,0	52,1	52,1	85,4

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