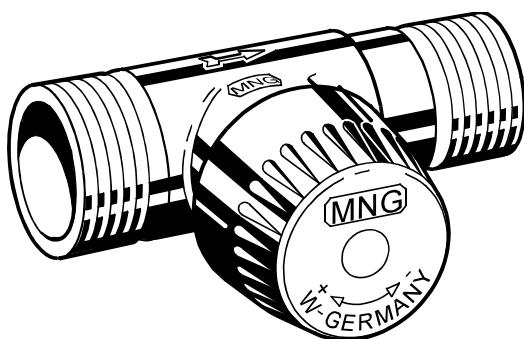


V100 G Two-way Valves

COOLING VALVES PN16, NO, FLAT SEALING

PRODUCT DATA



Design

- Valve housing PN16, DN15 with G 3/4" A external threads to DIN/ISO 228, flat sealing
- Valve insert
- Protection cap

Materials

- Valve housing made of red bronze
- Valve insert made of brass with EPDM O-rings
- Protection cap made of plastic, white

Application

V100 G type two-way valves are installed in cooling systems on the supply side of fan coil units. They control the flow of the cooling medium through the heat exchanger. The valve is controlled by an on/off-actuator.

The valves have flat sealing external threads on both sides. For suitable connections refer to 'Accessories' on page 2.

Features

- Robust, noise and flow optimised valve housing made of corrosion-resistant red bronze
- Available with different k_{vs} -values
- Small stroke, suitable for use with Honeywell M100/Z100 type thermal actuators

Specifications

Medium	Water, water-glycol mixture, quality to VDI2035
pH-value	8...9,5
Operating temperature	2...130°C (26...266°F)
Operating pressure	max. 16 bar (145 psi) Valve housing marked 'PN10' but tested to PN16
Close-off pressure with 90N actuator	max. 1.8 bar (26 psi)
k_{vs} (cv)-values	V100G1012: 1.80 (2.11) V100G1020: 2.20 (2.57)
Leakage rate	0.02% of k_{vs} -value
Closing dimension	11.5 mm
Stroke	3 mm
Starting position	NO = normally open
Connection thread	M30 x 1.5

Suitable Actuators

- Honeywell M100/Z100
- Honeywell M4450/M8450

Dimensions

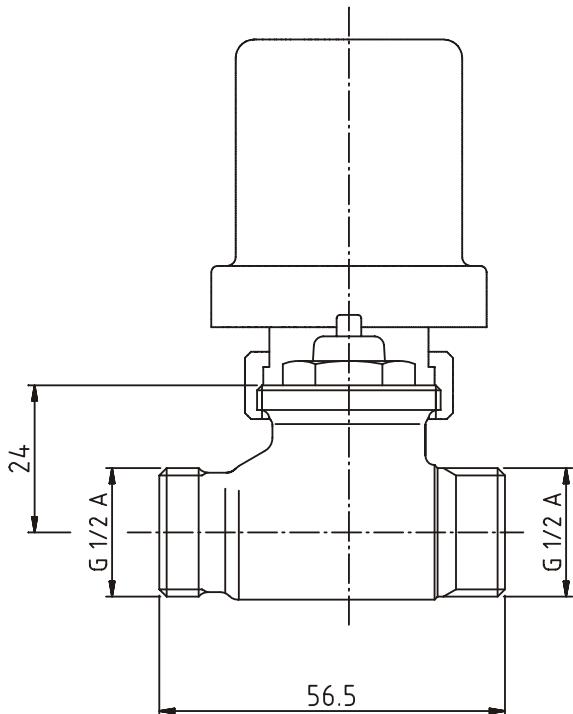


Fig. 1. V100G1012

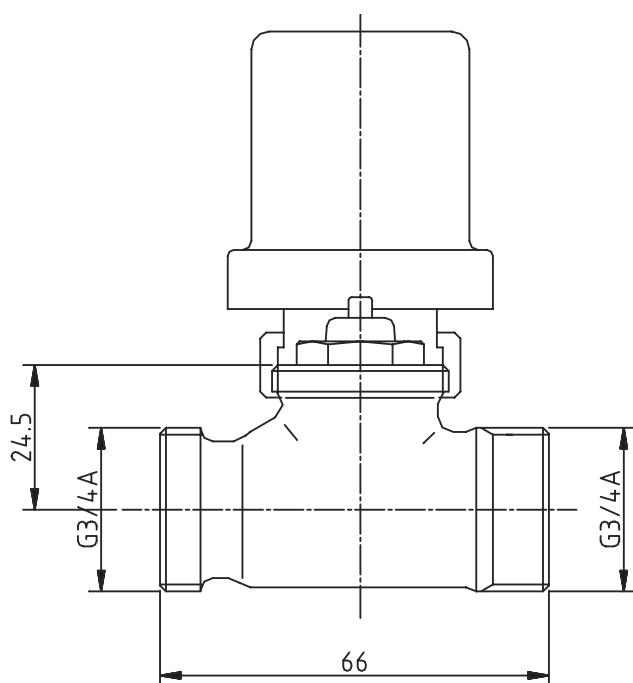


Fig. 2. V100G1020

NOTE: All dimensions in mm unless stated otherwise.

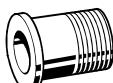
Ordering Information

Table 1. Available versions and OS-Nos. (OS = Ordering System)

Body pattern	DN	Connections	K_{vs} (cv)-value	OS-No.
Straight	10	G 1/2" A	1.80 (2.11)	V100G1012
Straight	15	G 3/4" A	2.20 (2.57)	V100G1020

Accessories

Externally threaded brass tailpiece, flat sealing



G 1/2" A

G 1/2" A, NPT thread

VA5500A015

VA5501A015

Brass union-nut, nickel-plated



VA5000B015

Brass soldering tailpiece, flat sealing



15 mm

16 mm

VA5930A015

VA5930A016

PTFE sealing ring



VA5090A015

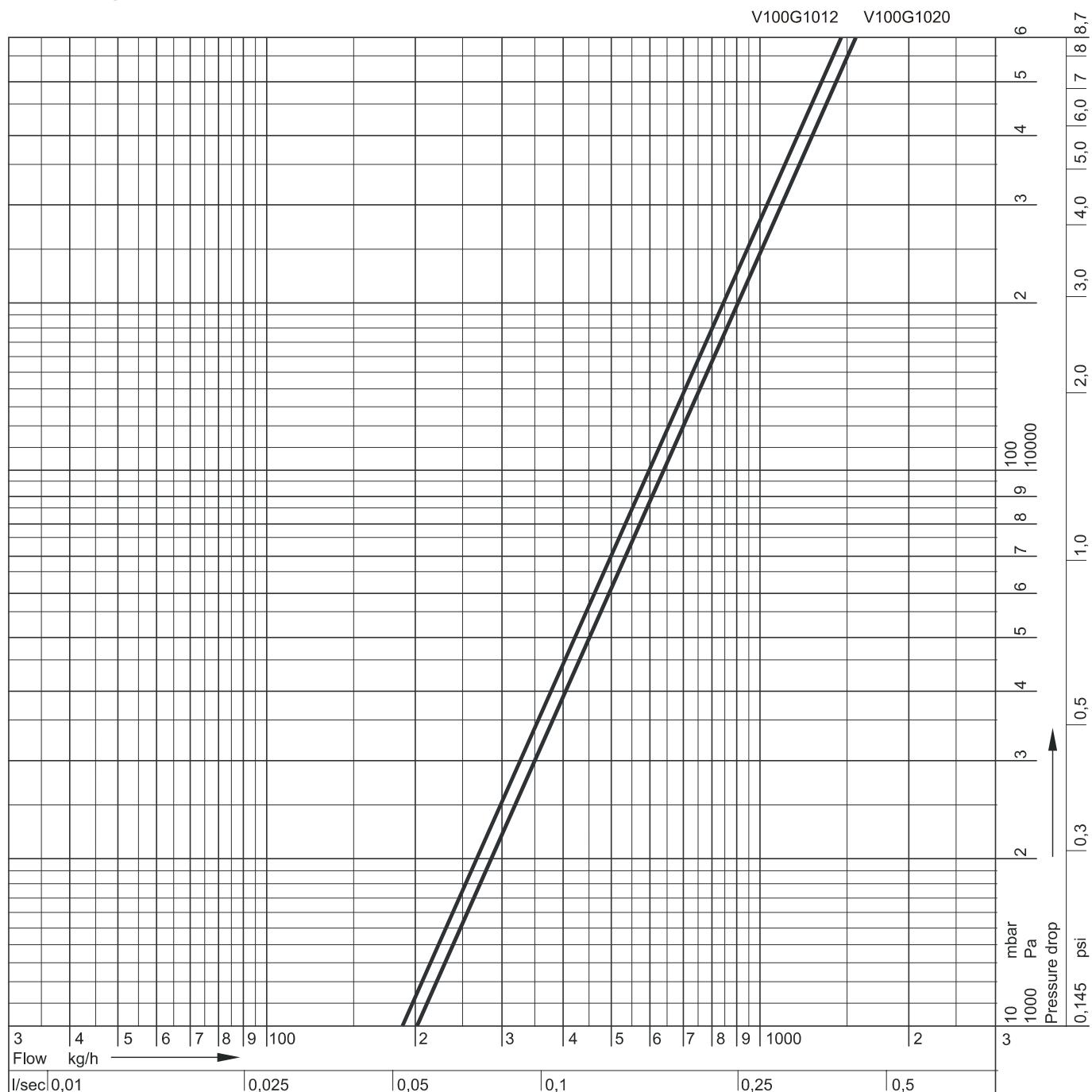
Steel welding tailpiece, flat sealing



DN15

VA5540A015

Flow Diagram



	V100G1012	V100G1020
k_{vs}-value	1.80	2.20
cv-value	2.11	2.57

NOTE: Flow data is only valid for water with a temperature of 5...30°C (41...86°F). When other temperatures or liquids are used the data may vary – see Reference Sheet 'Calculation of Flow Data' (EN0H-0221GE25).

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