

ROTARY MOTORIZED VALVES

MIXING VALVE SERIES HG

ESBE mixing valves Series HG are designed for installations where space is limited.

- 3HG/4HG, DN25, cast iron, PN10. Union connections.

OPERATION

ESBE mixing valve series HG have connections in an H configuration. The upward connections are for radiator circuits and the downward connections are for boiler connection.

The HG series have union connections. The integrated bypass has an adjustable flow with a maximum 50% total capacity of the valve.

The valves can be equipped with ESBE actuators series ARA600 and series 90. The valves may also be equipped with ESBE controllers series CRx200.

SERVICE AND MAINTENANCE

All major parts are replaceable. The shaft seal consist of two o-rings, one of which can be replaced without the need for draining down the system or dismantling the valve. However, before doing so, the system must be depressurized.



3HG
External thread/Union connections



4HG
External thread/Union connections

VALVE HG DESIGNED FOR

- Heating

SUITABLE ACTUATORS AND CONTROLLERS

- Series ARA600
- Series 90
- Series CRK210
- Series CRD220
- Series CRC210
- Series CRB210, CRB220
- Series CRA210

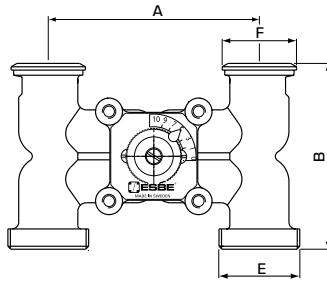
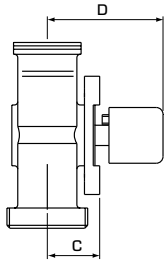
TECHNICAL DATA

Pressure class: _____ PN 10
Temperature: _____ max. 110°C
_____ min. - 10°C
Differential pressure drop: _____ max. 50 kPa
Torque: _____ 5 Nm
Leakrate in % of flow: _____ max. 1%
Connections: _____ External thread, ISO 228/1
Media: _____ Heating water (in accordance with VDI2035)
_____ Water / Glycol mixtures, max. 50%
_____ Water / Ethanol mixtures, max. 28%

Material
Body: _____ Cast iron EN-JL 1030
Slide/Spindle: _____ Brass CW 614N
Bushing: _____ Plastic
Cover plate: _____ Zinc
O-rings: _____ EPDM

PED 2014/68/EU, article 4.3 / SI 2016 No. 1105 (UK)

MIXING VALVE SERIES HG



SERIES 3HG, EXTERNAL THREAD

Art. No.	Reference	DN	Kvs *	Connection		A	B	C	D	Weight [kg]	Note
				E	F						
11351200	3HG25-125	25	10	G 1 1/2"	PF 1 1/2"	125	110	38	76	2,2	1), 2)

SERIES 4HG, EXTERNAL THREAD

Art. No.	Reference	DN	Kvs *	Connection		A	B	C	D	Weight [kg]	Note
				E	F						
11350100	4HG25-90	25	8	G 1 1/2"	PF 1 1/2"	90	110	38	76	1,5	1)
11350200	4HG25-125	25	6,3	G 1 1/2"	PF 1 1/2"	125	110	38	76	1,8	1)
11351100			10							2,2	1), 2)

*Kvs-value in m³/h at a pressure drop of 1 bar. Flow chart, see product catalogue.
Note 1) Male thread for union connections 2) With By-pass

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DIMENSIONING

HEATING SYSTEMS (RADIATOR OR UNDERFLOOR HEATING SYSTEMS)

Start with the heat demand in kW (e.g. 25 kW) and move vertically to the chosen Δt (e.g. 15°C).

Move horizontally to the shaded field (pressure drop of 3-15 kPa) and select the smaller Kvs-value (e.g. 6,3).
A mixing valve with suitable Kvs-value will be found in

respective product description.

OTHER APPLICATIONS

Make sure maximum ΔP is not exceeded.

