HERZ 3-way mixing and diverting valves

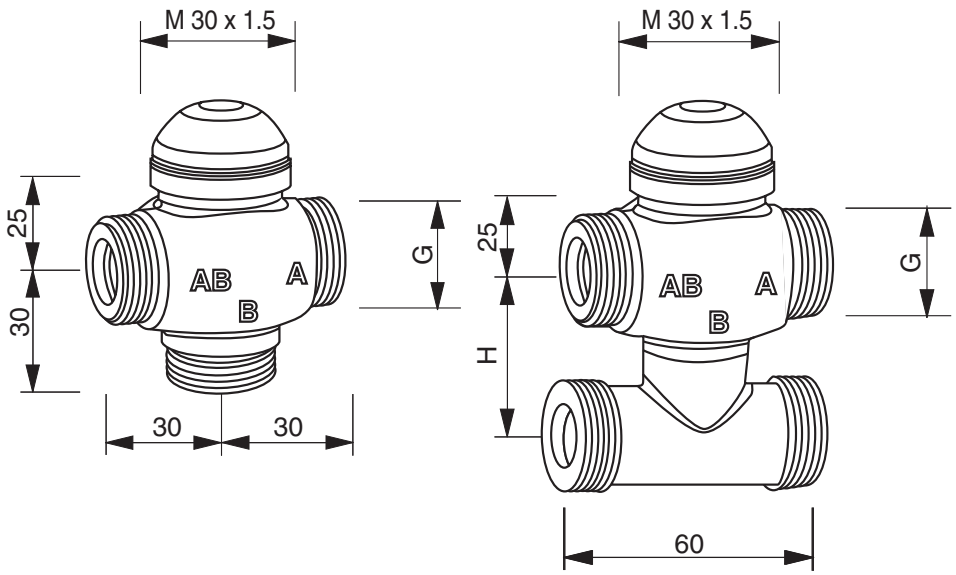
3-way mixing or diverting valve with or without bypass T-piece, made of cast dezincification restistant brass

Standart sheet for

7762-7763

edition 1104 (0604)

7762 -7763



Article number	DN	G flat seal	kvs-value	Article number	DN	H	G flat seal	kvs-value
1 **7762** 50	10	1/2	0.4	1 **7763** 50	10	40	1/2	0.3
1 **7762** 60	10	1/2	0.6	1 **7763** 60	10	40	1/2	0.5
1 **7762** 70	10	1/2	1.0	1 **7763** 70	10	40	1/2	0.8
1 **7762** 80	10	1/2	1.6	1 **7763** 80	10	40	1/2	1.2
1 **7762** 51	15	3/4	2.5	1 **7763** 51	15	40	3/4	1.9
1 **7762** 61	15	3/4	4.0	1 **7763** 61	15	40	3/4	3.0
1 **7762** 62	20	1	5.0	1 **7763** 62	20	50	1	3.8

Dimensions in mm
Article numbers

Model

3-way mixing or diverting valve with or without bypass T-piece, made of cast dezincification resistant brass nickel-plated with outside thread, according to ISO 228/1, flat seal without union nut. Pipe connections are not included. Spindle made of Niro steel with soft seal valve cone for regulating.With double O-ring seal. Version with or without bypass T-piece. Characteristic almost-parallel curve. For combination with M 30 x 1.5, lift 3.7 mm thermal actuating drives, closing dimension 11.5 mm.

Construction characteristics

HERZ 3-way mixing or diverting valves 7763, with bypass T-piece can be directly mounted on to fan-coil units. The pipe centre distance “H“ has been coordinated to conform with leading fan-coil manufacturers.

Application

For regulation of heating and cooling systems and to control the room temperature while using climatic equipment.

Function

When the spindle is pressed, the regulating branch (A-AB) is closed and the bypass branch (B-AB) is opened. The valve can either be regulated by a thermal valve drive in 2-way operation (On-Off) or by constant control. The bypass’ kv-values are approximately 30% below the values of the regulated branch.

We reserve the right to make modifications in line with progress in engineering

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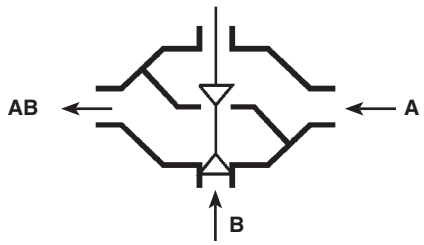
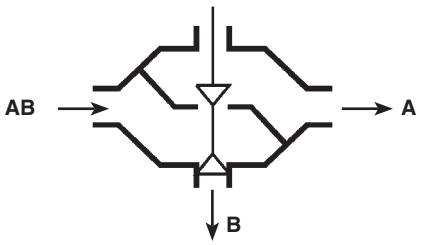
Application

Application as mixing valve



Application as diverting valve



Mounting position

Mounting position for actuating drives is to the done vertical upright, or horizontal but not below.

Operational data

Minimum operating temperature 2 °C
Maximum operating temperature 130 °C, with mounted actuating drive 100 °C
Maximum operating pressure 16 bar
Maximum differential pressure on closed position DN 10 1.5 bar; DN 15 1.2 bar; DN 20 0.5 bar for shut-off
Maximum differential pressure for low-noise operation 0.5 bar.
Water quality according to Austrian Standard ÖNORM H 5195 and/or VDI-Regulation 2035.

Pipe connections

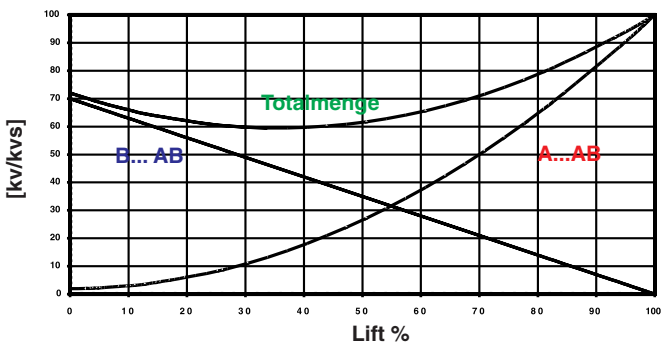
1 **6220** 20	3/8	Iron pipe connection, flat seal/nut, connection piece and seal.
1 **6236** 00	3/8 x 1/2	Soldering connection, flat seal, nut, soldering nipple and seal
1 **6240** 00	3/8	Welding connection, flat seal, nut, welding nipple and seal
1 **6220** 21	1/2	Iron pipe connection, flat seal, nut, connection piece and seal
1 **6220** 11	1/2 x 3/8	Iron pipe connection, flat seal, nut, connection piece and seal
1 **6236** 01	1/2 x 12	Soldering connection, flat seal, nut, soldering nipple and seal
1 **6236** 11	1/2 x 15	Soldering connection, flat seal, nut, soldering nipple and seal
1 **6236** 21	1/2 x 18	Soldering connection, flat seal, nut, soldering nipple and seal
1 **6240** 01	1/2	Welding connection, flat seal, nut, welding nipple and seal
1 **6220** 12	3/4	Iron pipe connection, flat seal, nut, connection piece and seal
1 **6220** 22	3/4 x 44	Iron pipe connection, flat seal, nut, connection piece and seal
1 **6236** 02	3/4 x 15	Soldering connection, flat seal, nut, soldering nipple and seal
1 **6236** 12	3/4 x 18	Soldering connection, flat seal, nut, soldering nipple and seal
1 **6236** 22	3/4 x 22	Soldering connection, flat seal, nut, soldering nipple and seal
1 **6221** 02	3/4	Welding connection, flat seal, nut, welding nipple and seal
1 **6236** 12	3/4 x 1/2	Reduction connection, iron pipe connection, flat seal Nut and connection piece.
1 **6241** 02	3/4 x 1/2	Reduction connection, welding connection, flat seal Nut and connection piece.

Accessories

1 **7711** 18	0-10/24 V	HERZ actuating drive for continuous control, threaded connection M 30 x 1.5
1 **7711** 80	230 V	HERZ Actuating drive for 2-point or pulse control, Threaded connection, M 30 x 1.5
1 **7711** 81	24 V	HERZ Actuating drive for 2-point or pulse control, Threaded connection. M 30 x 1.5
1 **7794** 23	230 V	HERZ electronic air conditioner with PI behaviour For heating and cooling operation
1 **7794** 24	24 V	HERZ electronic air conditioner with PI behaviour For heating and cooling operation
1 **7793** 00		HERZ sensor temperature probe for air conditioner
1 **7796** 02		HERZ safety transformer, 230 V/24 V, 50 Hz, 50 VA

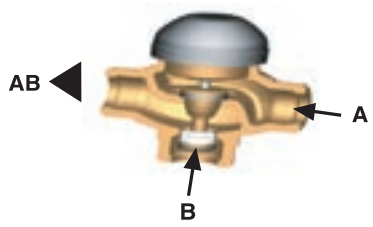
Characteristic curves

Characteristic curve



HERZ application diagram	HERZ 3-way valve
Art. Nr. 1 7762 50 . 1 7763 80	DN 10 . 20

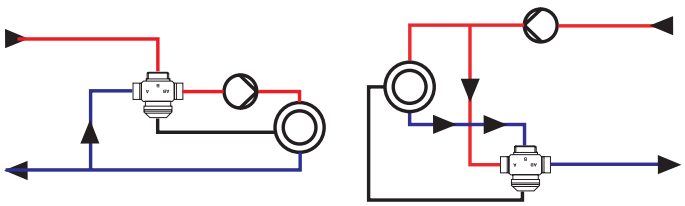
Mixing operation



Cone positioning

When temperature increases, connection B will close and A will open

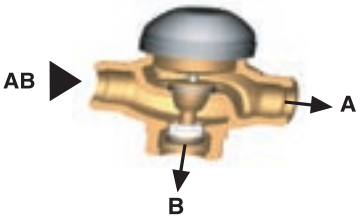
Heating



flow mounting | return mounting

Mixing valve

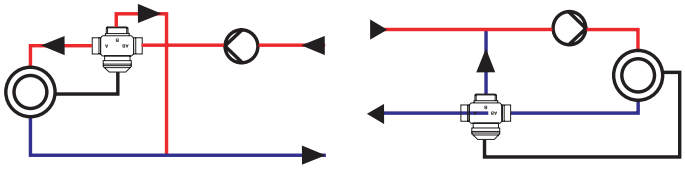
Diverting operation



Cone positioning

When temperature increases, connection A will close and B will open

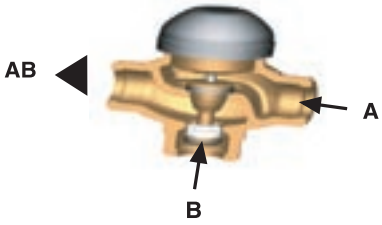
Heating



flow mounting | return mounting

Diverting valve

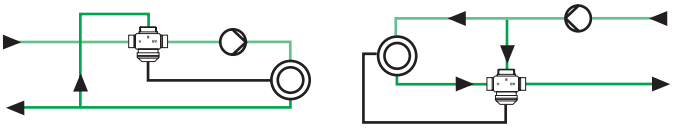
Mixing operation



Cone positioning

When temperature increases, connection B will close and A will open

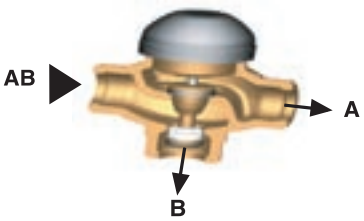
Cooling



flow mounting | return mounting

Mixing valve

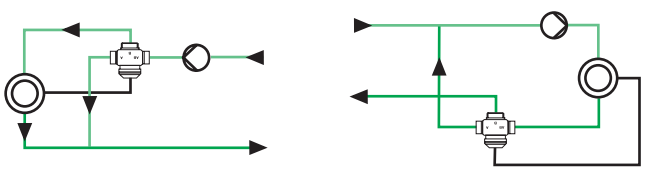
Diverting operation



Cone positioning

When temperature increases, connection A will close and B will open

Cooling



flow mounting | return mounting

Diverting valve

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