

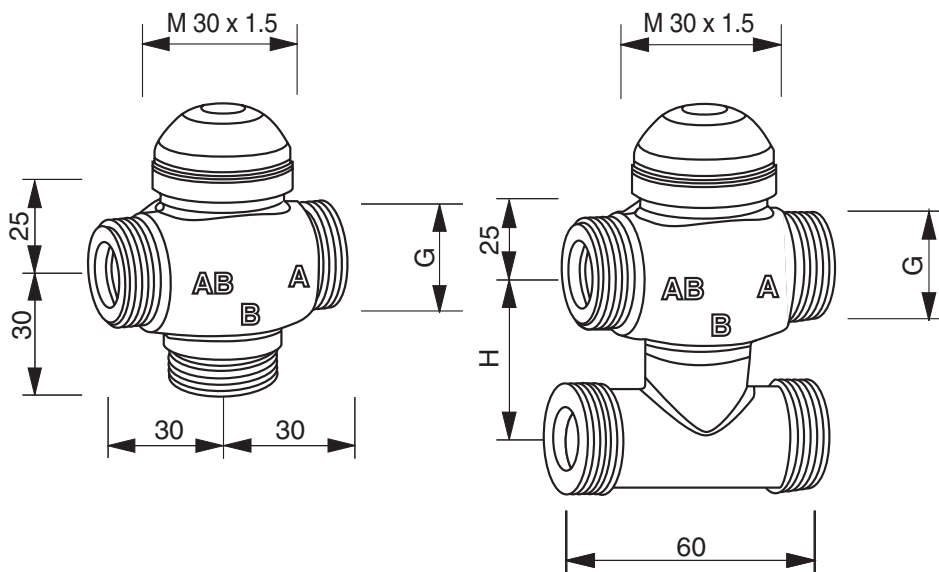
HERZ 3-way mixing and diverting valves

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

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.

Model

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.

Construction characteristics

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

Application

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

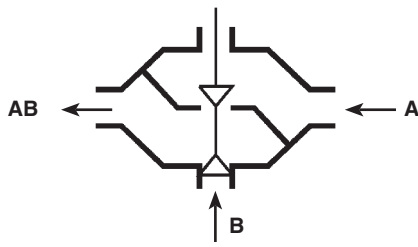
Function

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

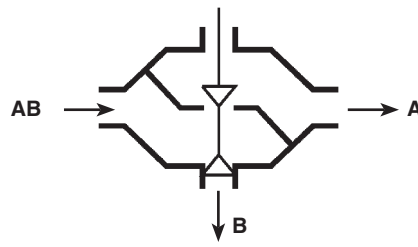
HERZ Armaturen
Richard-Strauss-Straße 22 • A-1230 Wien
e-mail: office@herz-armaturen.com • www.herz-armaturen.com



Application as mixing valve



Application as diverting valve



Application

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

Mounting position

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.

Operational data

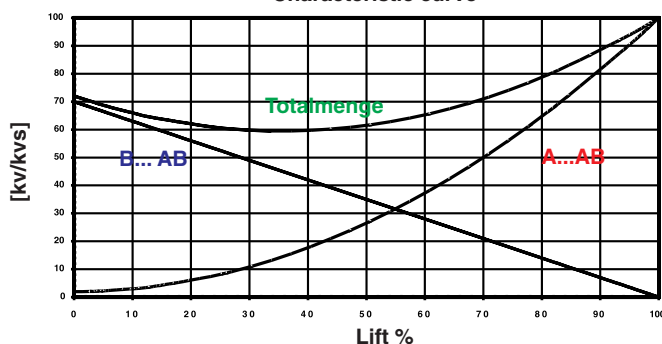
1 6220 20	3/8	Iron pipe connection, flat seal/nut, connection piece and seal.
1 6236 00	3/8 x 1/2	Soldering connection, flat seal, nut, soldering nipple and seal
1 6240 00	3/8	Welding connection, flat seal, nut, welding nipple and seal
1 6220 21	1/2	Iron pipe connection, flat seal, nut, connection piece 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.

Pipe connections

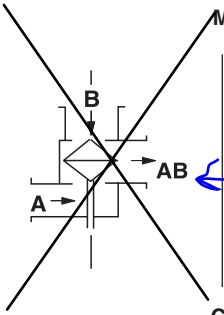
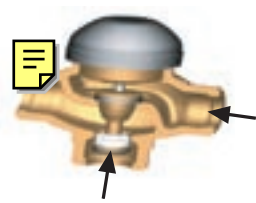
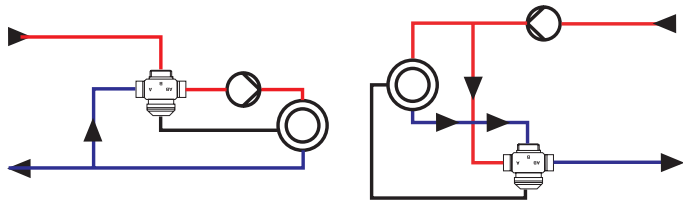
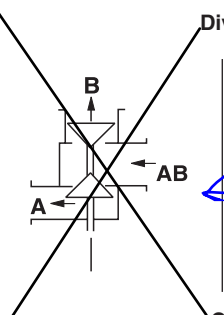
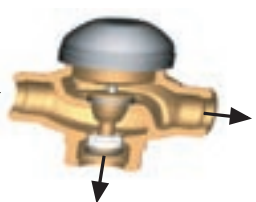
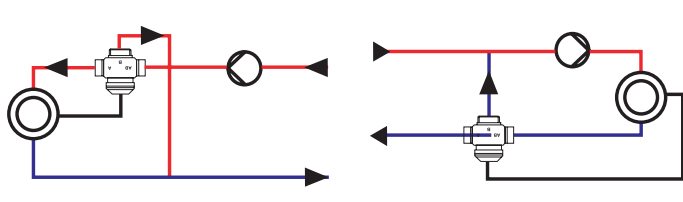
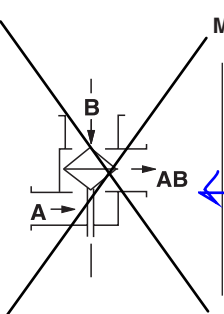
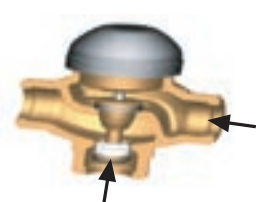
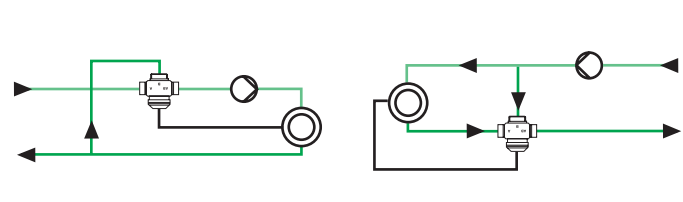
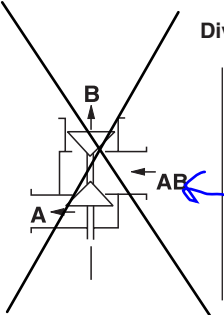
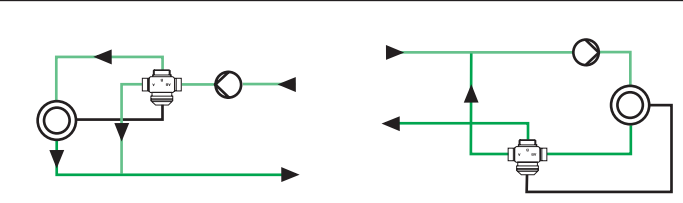
1 7711 18	0-10/24 V	HERZ actuating drive for continuous control, threaded connection M 30 x 1.5
1 7711 80	230 V	HERZ Actuating drive for 2-point or pulse control, Threaded connection, M 30 x 1.5
1 7711 81	24 V	HERZ Actuating drive for 2-point or pulse control, Threaded connection. M 30 x 1.5
1 7794 23	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

Accessories

Characteristic curve



Characteristic curves

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	