

R276B



Energy
Management

Motorized 2-way zone valve

Datasheet
0754EN 03/2024



The zone valves are devices for intercepting the heating fluid which, driven by an actuator controlled by a thermostat or by a clock, allow for the subdivision of air conditioning systems in sectors which are similar from the point of view of room temperature control.

The R276B 2-way zone valves are supplied with insulation and actuator, with the possibility for manual control.

Versions and product codes

PRODUCT CODE	CONNECTIONS	ELECTRICAL POWER SUPPLY TO ACTUATOR (CODE)
R276BX006	G 1-1/4"F x G 1-1/4"F (DN32)	230 V (spare part code: K272Y101)
R276BX026		24 V (spare part code: K272Y102)
R276BX007	G 1-1/2"F x G 1-1/2"F (DN40)	230 V (spare part code: K272Y101)
R276BX027		24 V (spare part code: K272Y102)
R276BX008	G 2"F x G 2"F (DN50)	230 V (spare part code: K272Y101)
R276BX028		24 V (spare part code: K272Y102)

Technical data

Valve

- Fluids of use: water, water and glycol (max. 50 %)
- Temperature range (valve + actuator): -5÷110 °C
- Nominal pressure (PN): 40 bar
- Maximum differential pressure: 16 bar
- Actuator connection: ISO 5211
 - F03 for R276BX006, R276BX026
 - F05 for R276BX007, R276BX027, R276BX008, R276BX028

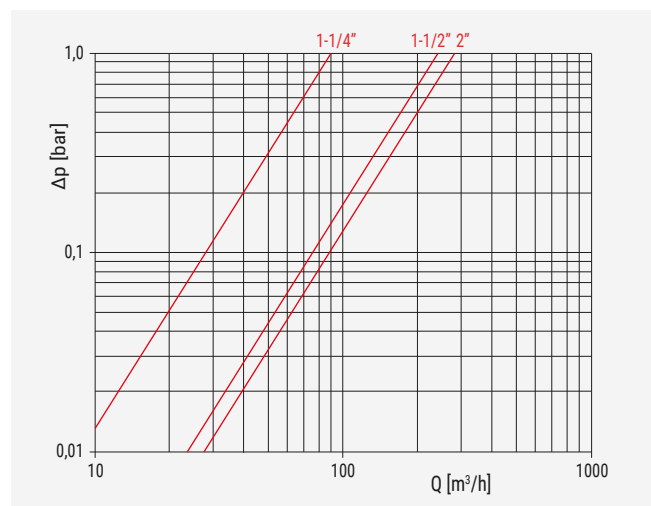
Materials

- Body, ball, command stem: brass CW617N
- Gaskets: FPM and PTFE
- Insulation: expanded crosslinked polyethylene

Actuator

- Type of command: ON/OFF
- Rotation angle: 90°
- Opening time: 60 s
- Maximum torque: 18 Nm
- Electricity absorption: 6 W
- Auxiliary microswitch for end stop (contact flow rate): 6 (1) A
- Protection class: II
- Insulation class: IP65
- Ambient operating temperature range: -5÷55 °C
- Ambient humidity range: 95 %
- Storage temperature range: -20÷70 °C

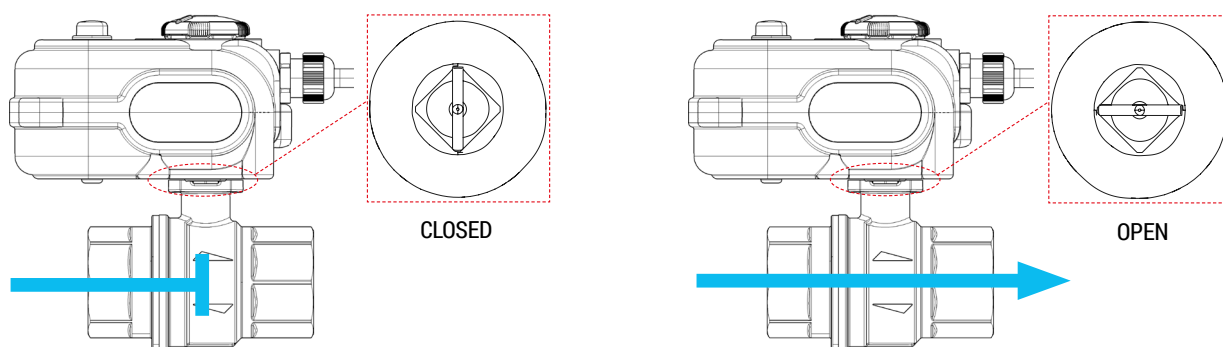
Losses of pressure



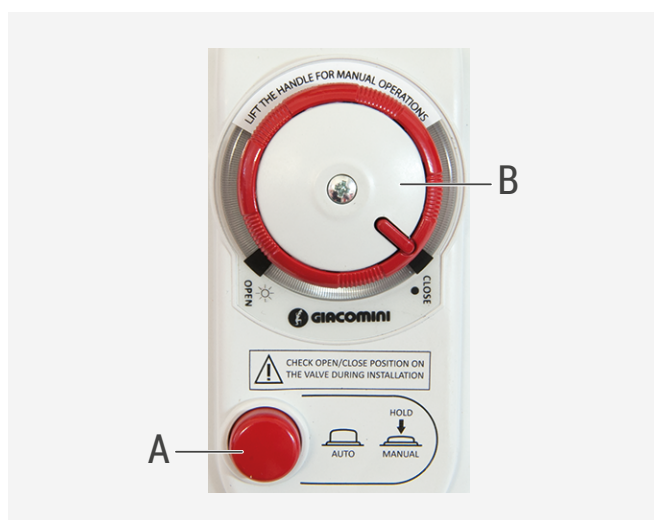
PRODUCT CODE	CONNECTIONS	Kv
R276BX006	G 1-1/4"F	89
R276BX026		
R276BX007	G 1-1/2"F	244
R276BX027		
R276BX008	G 2"F	280
R276BX028		

➤ Operation

Position of the stem during opening or closing of the valve



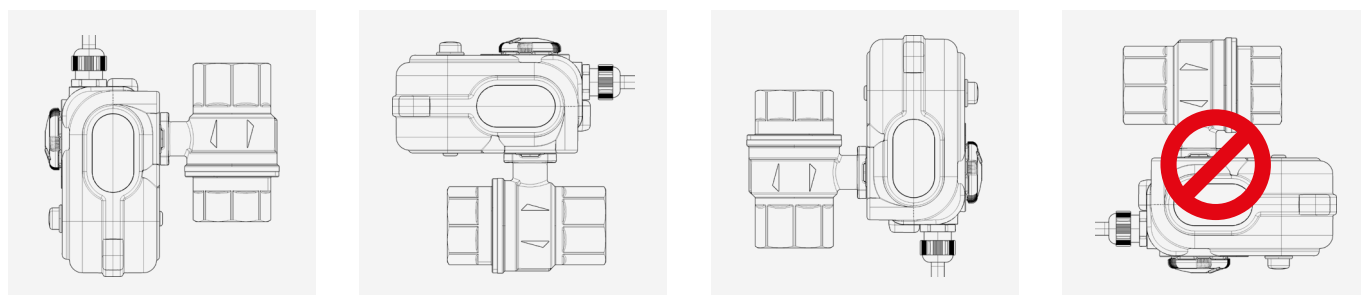
Manual actuator control



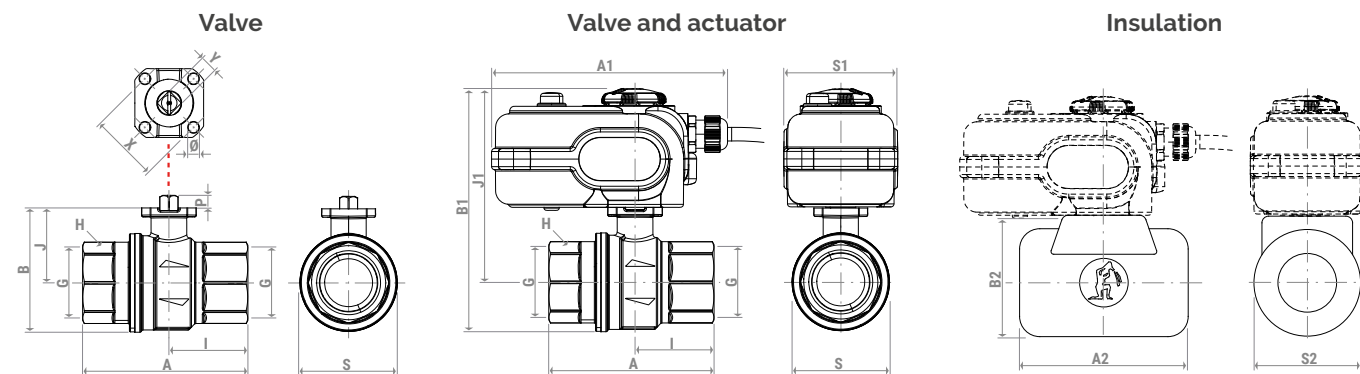
To initiate the actuator manually, keep the "A" red button pressed down and turn the "B" red knob to the desired position.

➤ Installation

The R276B valve must be assembled horizontally or vertically, with the cover facing upwards. It must be installed in a dry, protected place that can easily be accessed for any necessary maintenance work. Do not cover the actuator with insulating materials.



➤ Dimensions



PRODUCT CODE	CONNECTIONS G (DN)	FLANGE CONNECTION	A [mm]	I [mm]	B [mm]	J [mm]	S [mm]	H [mm]	P [mm]	B1 [mm]	J1 [mm]	A1 [mm]	S1 [mm]	X [mm]	Y [mm]	Ø [mm]	A2 [mm]	B2 [mm]	S2 [mm]
R276BX006	G 1-1/4"F (DN32)	F03	110	52	83	50	65	50	9	163	130	157	76	36	9	M5	125	90	80
R276BX026																			
R276BX007	G 1-1/2"F (DN40)	F05	120	59	102	62	80	55	10	182	142	157	76	50	11	M6	130	110	95
R276BX027																			
R276BX008	G 2"F (DN50)	F05	140	68	117	69	96	70	10	197	149	157	76	50	11	M6	150	120	110
R276BX028																			

➤ Reference Standards

- EC mark
- Directive EMC 2014/30/EC
- Low Voltage Directive 2014/35/EC

➤ Product specifications

R276B

2-way zone valve with insulation and 24 V or 230 V actuator depending on version, with the possibility of manual command. Connections: G 1-1/4"F, G 1-1/2"F, G 2"F. Body, ball, command stem in brass CW617N. Gaskets in FPM. Insulation in expanded crosslinked polyethylene. Temperature range (valve + actuator): -5÷110 °C. Nominal pressure (PN): 40 bar. Maximum differential pressure: 16 bar. Actuator connection: ISO 5211. Compatible fluids: water, water and glycol (max. 50 %). Type of command on actuator: ON/OFF. Opening time: 60 s. Actuator insulation class: IP65. Ambient operating temperature range for actuator: -5÷55 °C. Ambient humidity range for actuator: 95 %.

⚠ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

♻ Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

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♻ Product Disposal. Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.