PRESSURE INDEPENDENT CONTROL VALVES FOR FAN AIR HANDLER UNIT - BRASS - TP200/201

Specifications

DN mm	DN25 - DN50
DN inch	1" - 2"
Temperature	-10°C to 120°C
Type of body	F / F
Application	Cold/hot water, Glycol solution concentration < 50%
Connection	Threaded ISO 7-1 BSP
Test	EN 12266-2 (Test body safety and tightness, Test seat tightness)
Options	Other specifications on request

Advantages

- **High Control Precision**

Both the electric valve core and balancing valve core adopt straight travel design. Compared with rotary design, straight travel has higher control precision.

- **Low Leakage Rate**

The leakage rate is no more than 0.02% of Kvs.

- **Build-in Diaphragm Capsule and Connecting Pipe**

The valve adopts the build-in diaphragm capsule and connecting pipe. It can avoid damaging during installation compared with external connecting pipe.

- **Anti-blocking Design**

The balance structure of spring diaphragm significantly reduces the probability of valve body blocking. Because of the lower requirement for water quality, it can also used for water in heating pipeline.

- **High-quality Material**

The valve body is made of high-quality brass Hpb59-1, valve stem and valve core are made of high-quality stainless steel.

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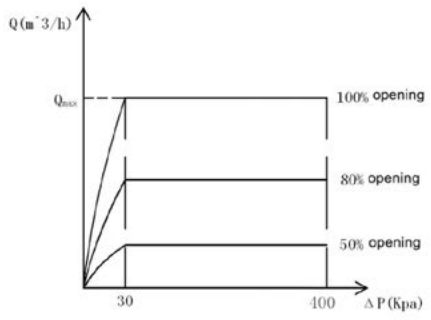
Type summary

PICV for AHU

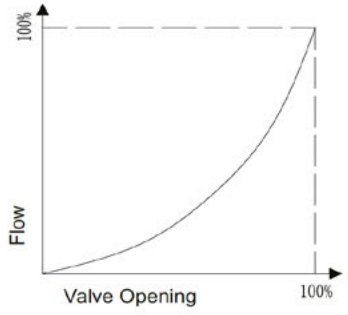
Series	TW500...
Actuator Rated Stroke	30mm
Nominal Output Force	500N
Icon	
Proportional type 0(2)~10VDC,0(4)~20mA	**TW500-XD24-S.12**
3-position type(on/off)	TW500-XD24-S.12

		Type	DN [mm]	Stroke [mm]	Qmax [m^3/h]	△Ps [Bar]
PN16 , -10 ˚C ~ 120˚C	Female threaded	TPL25-2VTC-S.10	DN25	20	2	**0.35-4**
		TPL32-2VTC-S.10	DN32	20	4	**0.35-4**
		TPL40-2VTC-S.10	DN40	20	6	**0.35-4**
		TPL50-2VTC-S.10	DN50	20	8	**0.35-4**
PN25 , -10 ˚C ~ 120˚C	Female threaded	TPL25-2VTD-S.10	DN25	20	2	**0.35-4**
		TPL32-2VTD-S.10	DN32	20	4	**0.35-4**
		TPL40-2VTD-S.10	DN40	20	6	**0.35-4**
		TPL50-2VTD-S.10	DN50	20	8	**0.35-4**

Flow characteristic



DP Flow Characteristic



Opening Flow Characteristic

DN (mm)	Opening (%)-Flow (m^3/h)														
	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
25	0.38	0.44	0.49	0.55	0.60	0.67	0.73	0.85	0.97	1.10	1.20	1.41	1.62	1.86	2.00
32	1.25	1.63	1.71	1.85	2.10	2.21	2.35	2.50	2.66	2.79	2.90	3.04	3.20	3.36	4.00
40	1.29	1.74	1.83	2.24	3.04	3.61	3.85	4.16	4.41	4.66	4.90	5.16	5.40	5.75	6.00
50	1.35	1.81	1.92	2.45	3.12	3.77	4.07	4.42	5.03	5.40	6.10	6.50	7.20	7.50	8.00

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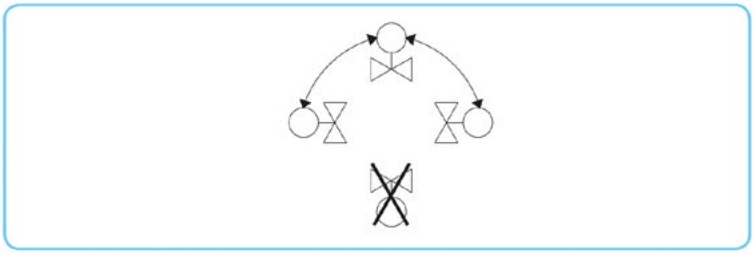
Installation instruction

1. When the valve is connected with pipeline, if the medium is chilled/hot water, downward installation is forbidden.



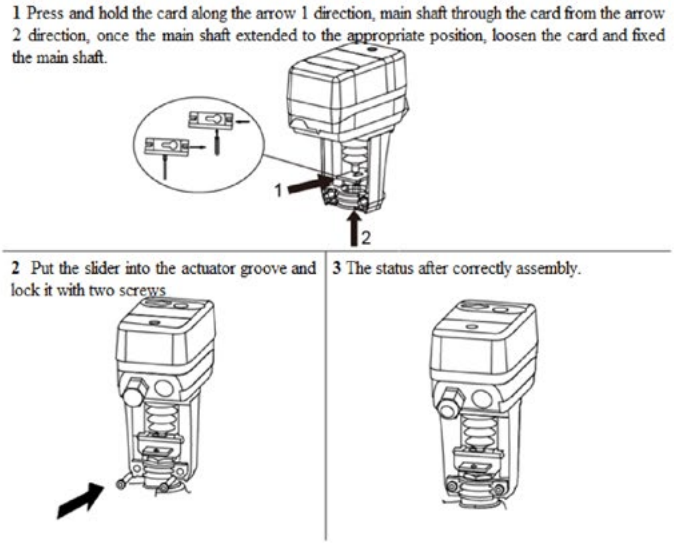
Note:

The medium flow direction in valve should be consistent with the medium of pipeline!

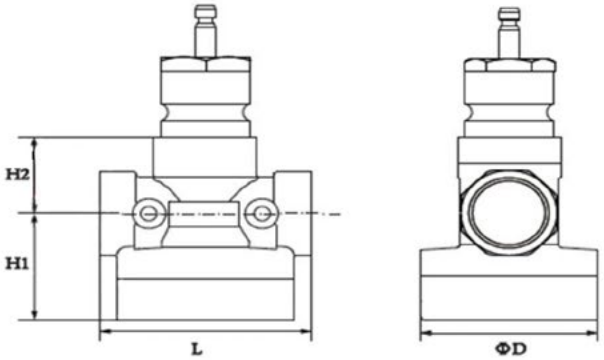
2.Valve and actuator can be assembled easily. Neither need any special tools, nor need to do any adjustment.

Note:

When we do the pipe water pressure testing, the valve body shoule be in the state of full open! If not, the internal diaphragm of valve body will be damaged and lose the balancing function!



Dimension figure



DN	H1 mm	H2 mm	L mm	D mm	Weight Kg (without test plugs)	Weight Kg (with test plugs)
25	44.5	37	92	72.5	1.5	1.6
32	59	48	104	92	2.6	2.7
40	63	51	115	105	3.2	3.3
50	70.5	50.5	130	120	4.3	4.4

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• Operating Parameters	
Caliber Range	DN25~DN50
Permissible Pressure	PN16, PN25 are optional
Connection Standard	Female threaded connection ISO7-1
Close-off DP	400Kpa
Medium Temperature	-10~120°C
Permissible Medium	Chilled/hot water, glycol under 50%

• Spare Parts Material	
Valve Body	Brass Hpb59-1
Valve Core	Stainless steel
Valve Stem	Stainless steel
Sealing Ring	PTFE
Diaphragm	EPDM
Cover	PC
Bracket	Stainless steel
Base	Aluminum die casting

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