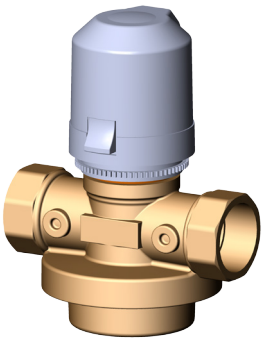
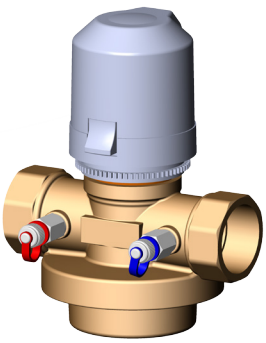


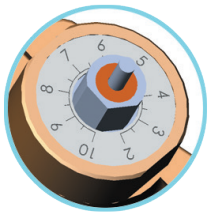


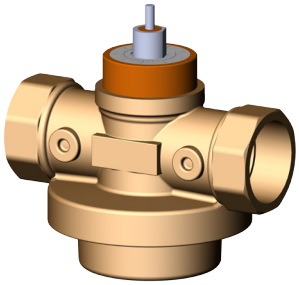
Pressure Independent Control Valve
---PICV(FCU)

TD2V...Series

It is used to solve the problem of hydraulic imbalance in heating and air conditioning system.It has a strong anti-jamming ability and a high control accuracy, which makes it work well in the frequent fluctuating flow system.

Features Introduction





• Flow Value Setting

Users are free to set the max. flow value by regulating the rotary dial in order to make sure each FCU could be allocated on demand and thus the whole control system will be energy-efficient.

• Low Noise Level

Adopt the design of differential pressure balancing structure(spring+ diaphragm) which has lower noise than the flow balancing structure(spring+ stainless steel valve cartridge). There is no water hammer and cartridge running noise.

• Opening Indication

There is a blue display all the way around on the tope of actuator, users could know if the valve is open or close from it.

• Normally Closed Actuator

Adopt normally closed actuator, valve will be opened after power on and closed after power off.

• Easy Installation

The actuator is equiped with a valve adapter which is convenient for assembly and disassembly during maintenance.

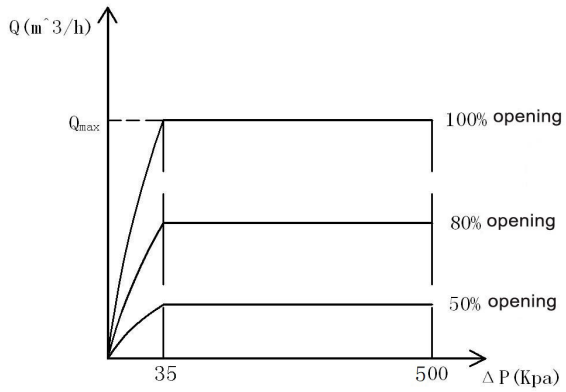
Type Summary

PICV for FCU

Series	TD100...
Actuator Rated Stroke	4mm
Nominal Output Force	100N
Icon	
Normally closed type 230VAC	TD100-D220

	Valve Body		Type PN16	Type PN25	DN [mm]	Stroke [mm]	Flow Qmax [m³/h]	△Ps [Bar]
Medium Temp. -10 ˚C ~ 120˚C		Without test plug	TD2V-15	TD2VP-15	DN15	4	0.9	**0.35-5**
			TD2V-20	TD2VP-20	DN20	4	1.3	**0.35-5**
			TD2V-25	TD2VP-25	DN25	4	2.0	**0.35-5**
			TD2V-15.CY	TD2VP-15.CY	DN15	4	0.9	**0.35-5**
		With test plug	TD2V-20.CY	TD2VP-20.CY	DN20	4	1.3	**0.35-5**
			TD2V-25.CY	TD2VP-25.CY	DN25	4	2.0	**0.35-5**

Flow Characteristic

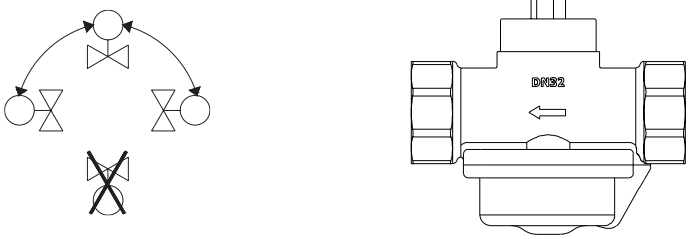


DP Flow Characteristic

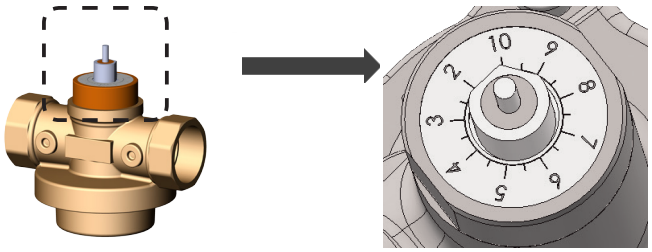
1.Downward installation is forbidden, when the medium is chilled/hot water.

Note:

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



2.Using 10mm spanner to regulate the max. opening, as shown in the picture, the scale pointed by the arrow is the max. opening.

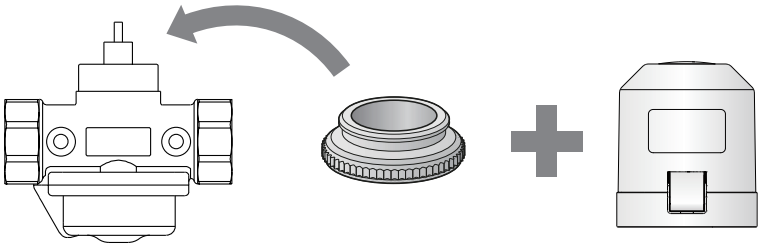


Scale-Flow (m^3/h) table									
DN	2	3	4	5	6	7	8	9	10
DN15	0.16	0.19	0.22	0.29	0.36	0.46	0.55	0.63	0.90
DN20	0.28	0.33	0.40	0.51	0.62	0.80	1.02	1.15	1.30
DN25	0.21	0.33	0.43	0.57	0.75	0.91	1.09	1.30	2.00

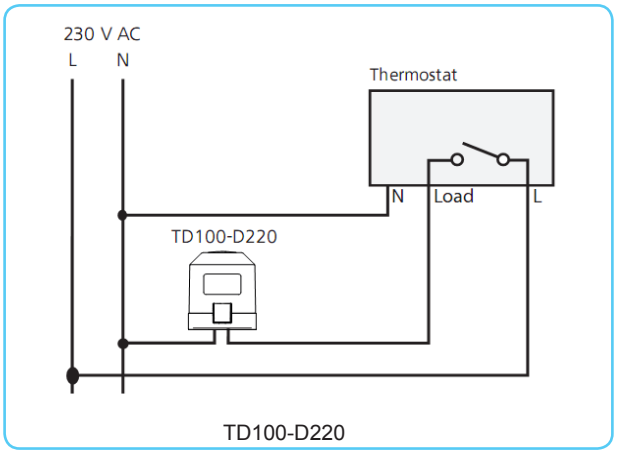
3.Install the actuator after the pipeline pressure testing.

Note:

If the actuator was installed on the valve when do the pipeline pressure testing, please make the actuator in a state of power on and valve open!

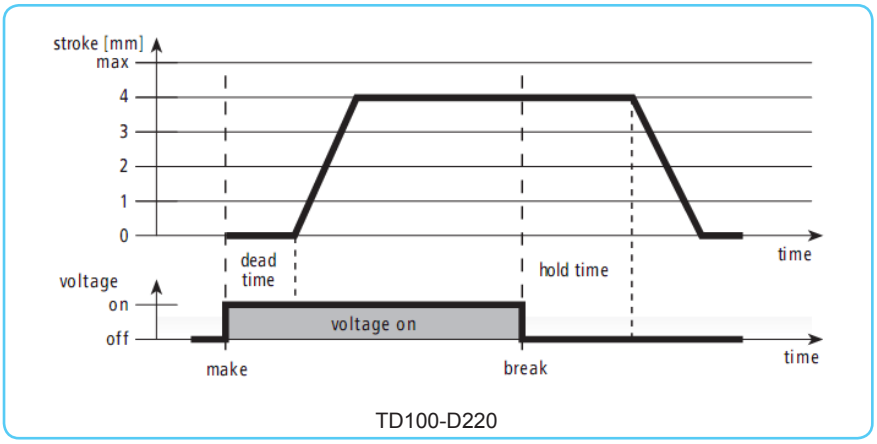


Wiring DIagram



TD100-D220

Operating Characteristic



TD100-D220

Technical Parameters

Operating Parameters

Caliber range	DN15~DN25
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%
Operating voltage	220VAC 50/60Hz
Power consumption	≥2W
Effective troque	100N
Effective stroke	≥4mm
Operating environment	Temperature -10~60℃
Connection thread	M30*1.5
Protection level	IP54
Cable	2*0.75mm^2

Spare Parts Material

Valve body	Brass Hpb59-1
Valve core	Brass
Valve stem	Stainless steel
Sealing ring	PTFE
Diaphragm	EPDM

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