Pressure Independent Control Valve

Fig. 8400

Specification

Design in accordance with

Connection Specification: ISO228/1

EN1092- 2 PN25

Pressure test according to standards GB/T13927

Technical data

Working Pressure: PN25

Medium Temperature: - 10°C ~ +120 °C

Medium: Chilled Water, Cool Water, <50% Glycol

Control type: Equal-percentage

Operating Voltage: 24V AC / 24V DC

Control signal: 2-10V / 4-20mA DC / 3-float / PWM

Operation time: 98~180S

Power: 10VA

Protection Grade: IP44

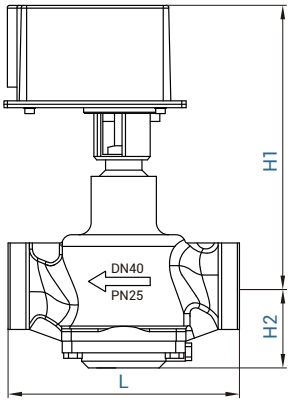
Materials

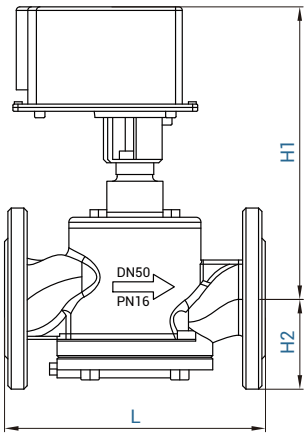
Part	Material	Specification
Body(DN15~DN40)	Brass	EN 12165 CW617N
Body(DN50~DN200)	Ductile Iron	EN-JS 1040
Trim	Stainless Steel/ Composite	BS970 304 / -
Diaphgram	Composite	Nylon reinforced EPDM
Spring	Stainless Steel	BS970 304
Testing valve	Brass	EN 12165 CW602N
Actuator	Assemblies	-

Schema

DN15- DN40

DN50- DN200





Dimensions

Parameter \ Model		Fig.8420	Fig.8420	Fig.843*	Fig.844*	Fig.845*	Fig.846*
Size	mm	DN15 / DN20 / DN25	DN25 / DN 32 / DN40	DN50 / DN65 / DN80	DN80 / DN100	DN125 / DN150	DN200
	Inch	1/2 ~3/4 ~1	1 ~1-1/4 ~1-1/2	2 ~2-1/2 ~3	3 ~4	5 ~6	8
L		108	148	216	313	418	600
H1		215	225	245	270	307	364
H2		58.9	63	76.5	115.6	143	168
Union length		22.4/25.4(33.5)	35.1/40.1(41.2)	-	-	-	-

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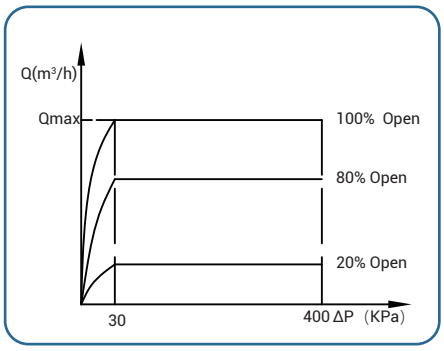
Pressure Independent Control Valve Fig. 8400

ΔP-Flow Range

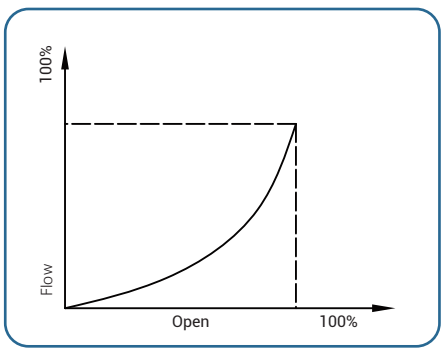
Parameter \ Model		Fig.8411	Fig.8421
Size	mm	DN15 / DN20 / DN25	DN25 / DN 32 / DN40
	Inch	1/2 ~3/4 ~1	1 ~1-1/4 ~1-1/2
ΔP Range KPa		35~320	40~320
Min. Flow	m^3/h	0.650	1.906
	L/s	0.180	0.530
Max. Flow	m^3/h	2.448	8.640
	L/s	0.680	2.340

Parameter \ Model		Fig.8431	Fig.8432	Fig.8441	Fig.8442	Fig.8451	Fig.8452	Fig.8461	Fig.8462
Size	mm	DN50 / DN65 / DN80		DN80 / DN100		DN125 / DN150		DN200	
	Inch	2 ~2-1/2 ~3		3 ~4		5 ~6		8	
ΔP Range KPa		35~400	60~400	35~400	60~400	35~400	60~400	35~400	60~400
Min. Flow	m^3/h	8.856	12.600	12.420	16.666	23.472	26.856	34.000	37.000
	L/s	2.460	3.500	3.450	4.630	6.520	7.460	9.440	10.270
Max. Flow	m^3/h	25.418	35.352	33.300	50.400	84.240	106.55	108.00	138.00
	L/s	7.060	9.820	9.250	14.000	23.400	29.600	30.000	38.330

ΔP-Flow Curve



Opening-Flow Curve



Installation Precautions

1. Please read the installation information carefully, check the product parameters and make sure that they (e.g. Size and signalling) meet the requirements.
2. This product has been tested before delivery; any danger or damage on site should be avoided.
3. Please keep it vertical when installing; please leave enough space for installation and maintenance.
4. Water flow direction must be the same as the arrow direction on Body.
5. It is recommended to design and connect the bypass system; clean the impurities in the pipeline through the bypass system in order to avoid the valve clogging.
6. When the system is stopped or cleaned, the valve should Set in the open state.
7. the valve before and after the need to leave a long enough pipe: usually 10 times the length of the pipe diameter for the length of the valve before the valve, the valve after the length of the pipeline is 5 times.
8. The copper plug on the lower cover of the cast iron valve is used to drain the water during the pressure test before delivery. Individual seepage may occur during use. The user can tighten it with a slotted screwdriver and, if necessary, replace the O-ring.