FlowControl

Nicab DUE®

Secondary refrigerant valve 2 or 3 way intended for regulation of the temperature in display cabins, cold rooms, etc.

- Internal relay
- 2 potentialfree contacts
- 2 LED's (indicates cooling/defrosting)
- 3 O-rings in EPDM rubber
- Internal condense protection
- Compatible with earlier versions
- DN15 - DN40

FlowControl

Nicab DUE® - Motorised ballvalve for secondary refrigerants HT -15 °C / LT -35 °C

The Nicab Due ballvalve for secondary refrigerant systems is a development from the Nicab STANDARD, specially designed to handle low temperatures and different types of secondary refrigerants like Glycol, Freezium, Hy-Cool, Temper and Tyfoxit.
The valve is ON/OFF type, the ball in the 3-way valve has a special drilling which gives a secure and stable flow through the valve even when the valve is shifting port, for example in defrosting. The valves are manufactured as both 2 and 3 way depending on system design.
The same type of actuator is used for all valves regardless if it's 2 or 3 way. On the top of the actuator there are two LEDs that indicates cooling and defrosting.

To control the valve you can use a thermostatic control with an open/close contact.
The voltage is 230 V or 24 V depending on design. There is also two potential free contacts on plint to receive a signal back from the micro switch.

Art. No	Description	DN	Kvs m3/h	Voltage	Weight (kg)	Max. differential pressure
422HT015	2-way motorised ballvalve	15	16	230V (24V)	1	3,5 bar
422HT020	2-way motorised ballvalve	20	27	230V (24V)	1,2	3,5 bar
422HT025	2-way motorised ballvalve	25	47	230V (24V)	1,4	3,0 bar
422HT032	2-way motorised ballvalve	32	70	230V (24V)	1,9	3,0 bar
422HT040	2-way motorised ballvalve	40	145	230V (24V)	2,2	2,4 bar
423HT015	3-way motorised ballvalve	15	12	230V (24V)	1,1	3,5 bar
423HT020	3-way motorised ballvalve	20	17	230V (24V)	1,2	3,5 bar
423HT025	3-way motorised ballvalve	25	23	230V (24V)	1,6	3,0 bar
423HT032	3-way motorised ballvalve	32	34	230V (24V)	2,4	3,0 bar
423HT040	3-way motorised ballvalve	40	51	230V (24V)	2,6	2,4 bar

Technical information, actuator

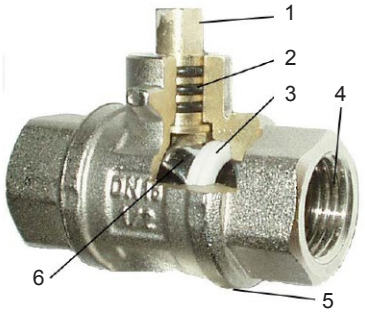
Power supply	230V~, 50...60 Hz (standard)	Permissible ambient temp.	-25...70 °C
	24V~, 50...60 Hz (option)	Permissible ambient humidity	< 95 %rh without condensation
Power consumption			
Running	230V~, ca 5,8 VA	Torque	11 Nm
	24V~, ca 5,1 VA	Turning angle	90° clockwise
Idle	230V~, ca 4,2 VA	Running time	ca 90 sec
	24V~, ca 4,1 VA	Protection	IP 65 acc. to EN 60529
Condense protection (internal)	Heater 33K, 5W	Noise while running	< 30 dB(A)

Technical information, valvebody

Nominal pressure	PN16
Max operating pressure	10 bar
Max differential pressure	2,4-3,5 bar
Sec. Ref. temp HT	-15...95 °C
Sec. Ref. temp LT	-35...95 °C
Turning angle	90°

Konstruktion:

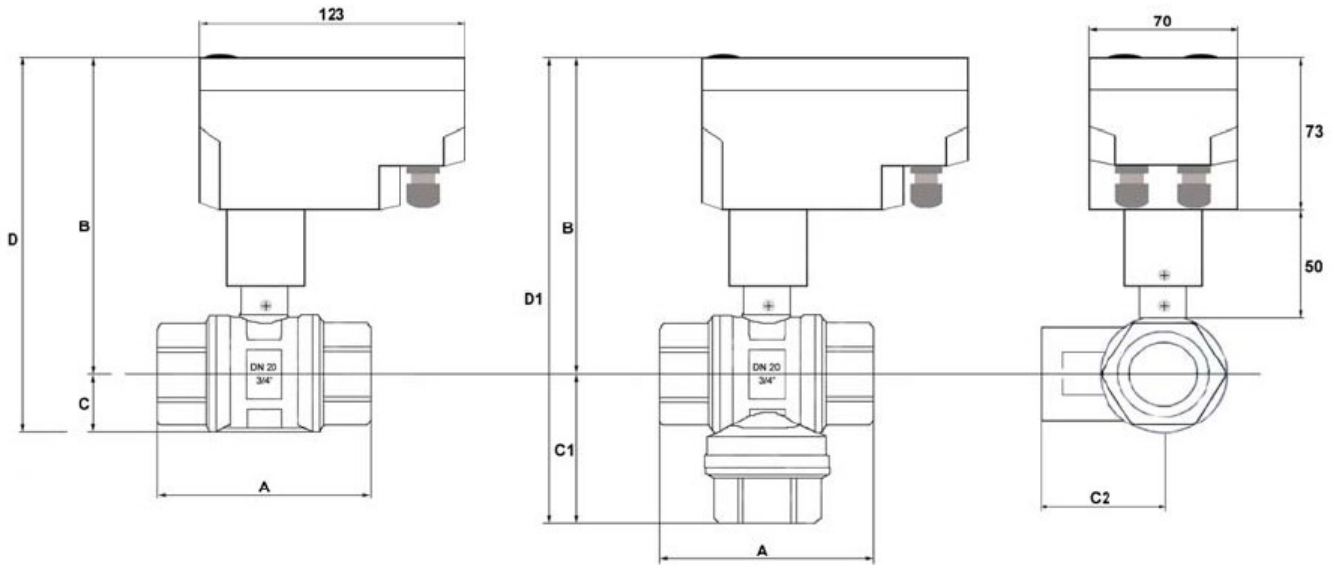
1. Axle in chrome plated brass
2. 3 O-rings in EPDM rubber
3. Disk PTFE
4. Female thread BSP, standard (Male optional)
5. Body in low zinc plated brass
6. Ball in chrome plated brass



FlowControl Sweden AB
Sven Källfelts Gata 202
SE-426 71 Västra Frölunda
Phone: +46 (0)31 - 785 12 15
info@flowcontrol.se
www.flowcontrol.se

FlowControl

Drawing



Measures 2-way valve

DN	A	B	C	D	KG	Kv	Art. Nr	Rsk. Nr.
15	73	140	17	157	1,0	16	422HT015	5363189
20	84	145	21,5	166	1,2	27	422HT020	5363190
25	95	150	26	175	1,4	47	422HT025	5363191
32	107	155	32,5	188	1,9	70	422HT032	5363192
40	120	172	39,5	205	2,2	145	422HT040	5363193

Measures 3-way valve

DN	A	B	C1	C2	D1	KG	Kv	Art. Nr	Rsk. Nr.
15	73	140	45		187	1,1	12	423HT015	5363194
20	84	145	55		200	1,2	17	423HT020	5363195
25	95	150	67		217	1,6	23	423HT025	5363196
32	107	155	85		240	2,4	34	423HT032	5363197
40	120	172	39	60	205	2,6	51	423HT040	5363198

Electrical Wiring

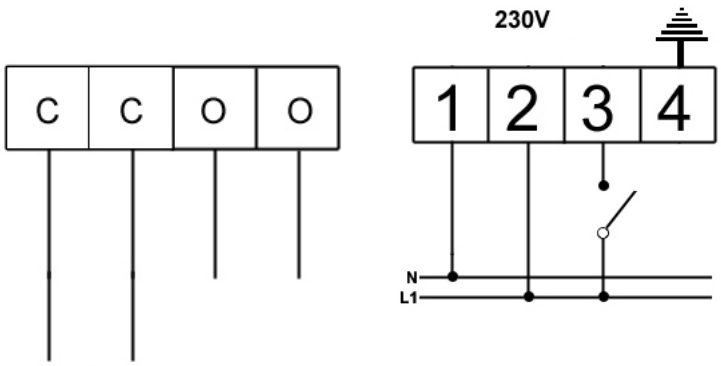
1 = Neutral
2 = Phase / L1
3 = Thermostat
4 = Ground

Neutral and phase should always be connected (red light is lit). When the thermostat is connected the valve opens (blue light is lit).

The connection is the same for 24V actuators.

Återföringssignaler

CC is used to receive a signal back in close pos.
OO is used to receive a signal back in open pos.



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