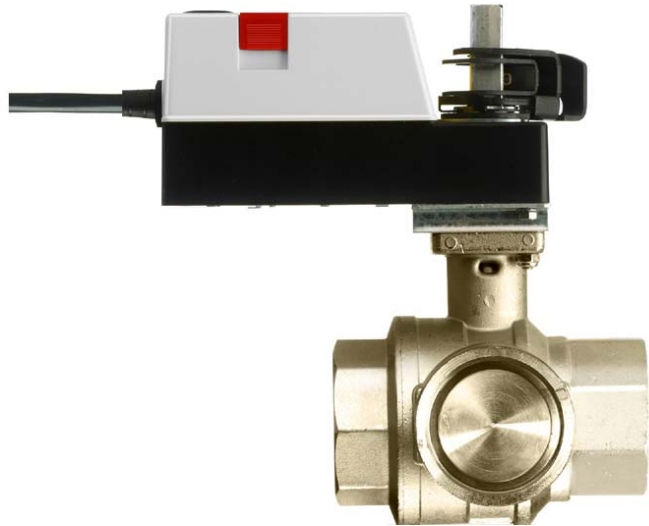


Nicab Maxi®

Secondary refrigerant valve 2 or 3 way with 3 O-rings in EPDM rubber to minimize the risk of leakage, with the ability to hand manouver in case of power loss. DN 50 – DN 65.



Properties	Benefits	User Advantages
Position indicator	Easy to see if the valve is in cooling or defrost mode	Easy to see if the valve is setup properly
Internal heating	Prevents condensation	Minimizes the risk of short circuit
3 O-rings in EPDM rubber	Can handle low temperatures. Can handle different types of media. More stable valvestem.	Minimizes the risk of leakage. Suitable for most applications.
90° turning angle	Same actuator for both 2 and 3-way valves.	Only one sparepart

NICAB Maxi: Motorised ballvalve for secondary refrigerants
HT -15 °C
Dimensions DN 50 – DN 65



The MAXI range of 2 and 3 port motorised ball valves are designed for use in secondary refrigerant systems. The valve function is ON/OFF or for continuous output (0...10 V, 4...20mA). Gearbox can be de-coupled in order to make manual adjustments. The valve is compatible with most secondary refrigerants including Glycol, Freezium, Hy-Cool, Temper and Tyfoxit.

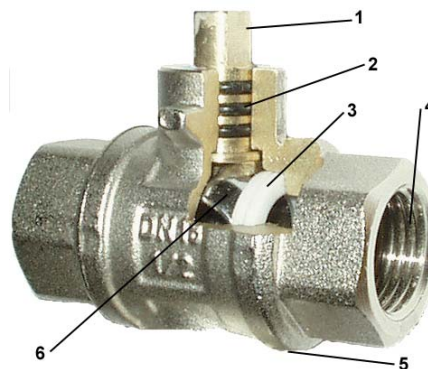
Type	Dimension DN	kVS value m ³ /h		Weight in kg	
		2-way	3-way	2-way	3-way
Maxi DN 50	50	191	64,5	4 kg	5 kg
Maxi DN 65	65	340	105	5 kg	6 kg

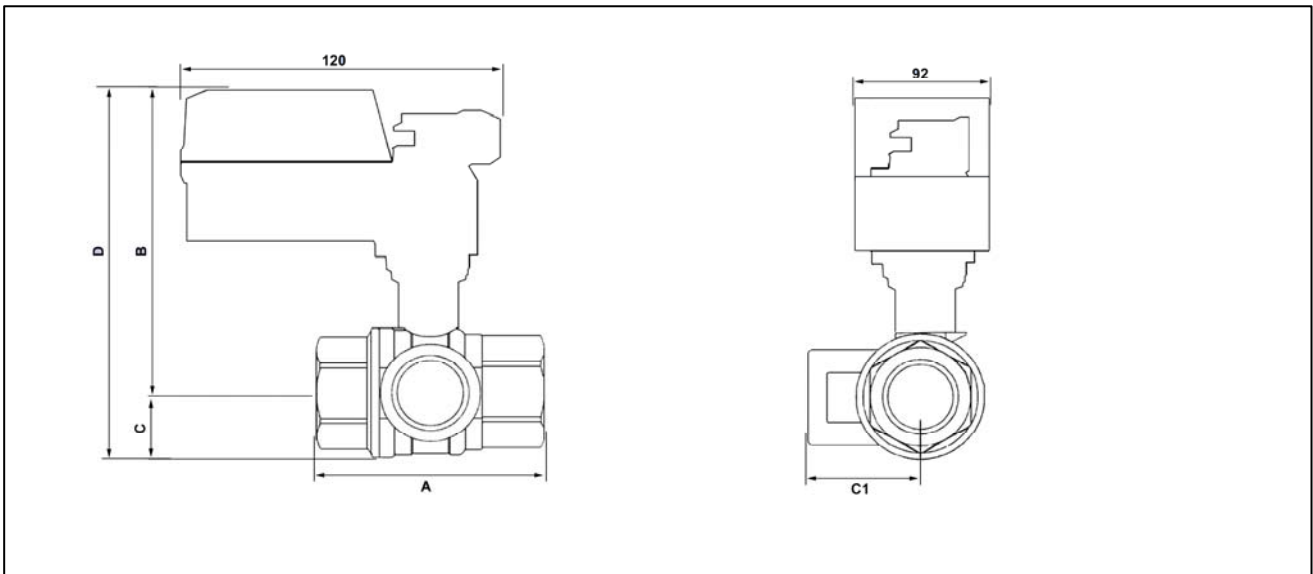
Technical Data

Dimension:	DN 50 – DN 65
Voltage:	230V (24V)
Torque:	15 Nm DN 50 – 30 Nm DN 65
Room temp:	-10 °C - +55 °C
Room humidity:	< 95% rh
Valvebody:	Low zinc plated brass
Frequency:	50/60 Hz
Running time:	60 / 120 Sec (240).
Protection:	IP 54
Sec. refrigerant temp:	HT -15 °C / +95 °C
Operational pressure:	10 bar
Differential pressure:	6 bar

Construction

1. Axel in chrome plated brass
2. 3 O-rings in EPDM rubber
3. Disc PTFE
4. Female thread BSP, standard
5. Body in low zinc brass
6. Ball in chrome plated brass





Measures 2-way valve

Dn	A	B	C	D	Kg	Kv	Art. No.	Rsk No.
50	138	187	47,5	234	4	191	422HT050	5363165
65	164	202	60	230	5	340	422HT065	5363166

Measures 3-way valve

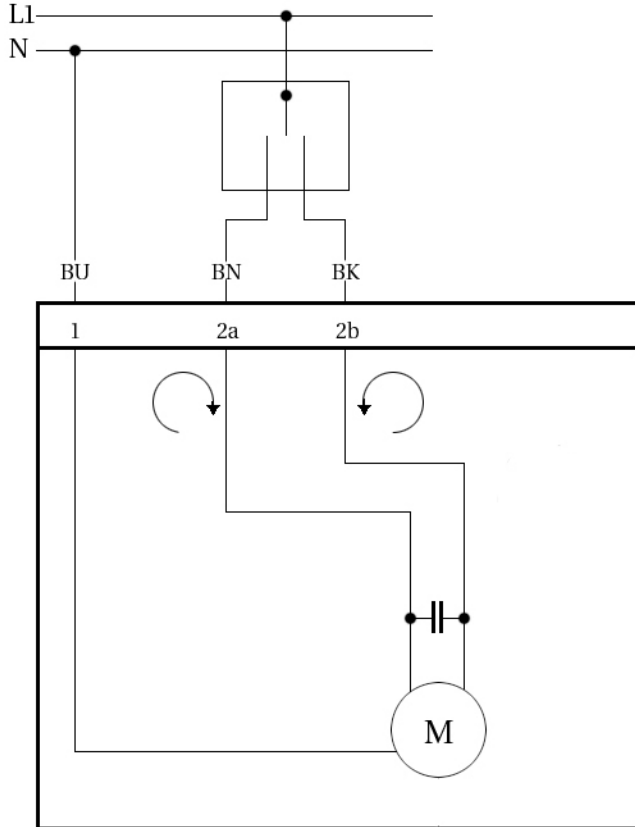
Dn	A	B	C	C1	D	Kg	Kv	Art. No.	Rsk No.
50	138	187	47,5	71,5	234	5	64,5	423HT050	5363167
65	164	190	60	89	230	6	105	423HT065	5363168

Pressure Loss

For calculating pressure loss over the valve use the formula $K_v = Q / \sqrt{\Delta p}$ normally the flow and Kv-value are known. Kv = amount of flow in m³/h create a pressure drop of 1,0 bar when passing the valve. Q = flow in m³/h Δp = Pressure drop in bar. Example: 3-way DN 20 (423HT020) Kv = 7,9 - Q=2,0 m³/h Δp = (2,0/7,9)² = 0,0064 bar = 6,4 Kpa. To calculate the valve size (Kv) for a given max pressure drop e.g. max Δp 10 Kpa. Ex. Kv = ? Q = 4,0 m³/h - Δp = 0,1 bar = 10 Kpa Δ Kv = 4,0/√0,1 Δ Kv = 12,6 find a valve with a Kv-value close to 12,6, take a 3-way DN 25 (423HT025) with Kv = 13. This example above is for water +20°C for secondary refrigerant and low temperature calculate with a pressure loss 40% - 70% higher, depending on type of secondary refrigerants and temperature. For more detail figure contact Nicab or use the computer program on our home page.

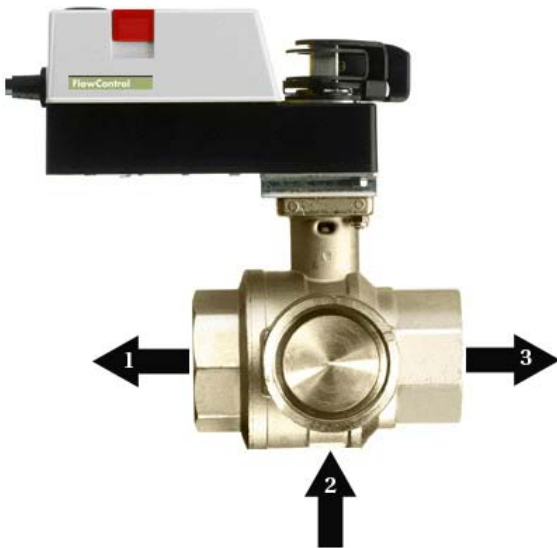
FlowControl

Wiring diagram



BN = brown = clockwise
 BK = black = counter clockwise
 BU = blue = neutral

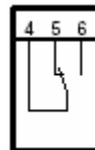
Flow direction 3-way DN 50 – 65



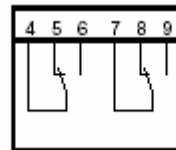
Port 1 is closed at delivery.

Accessories

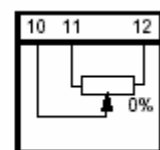
Single
auxilliary change
contacts



Double
auxilliary change
contacts

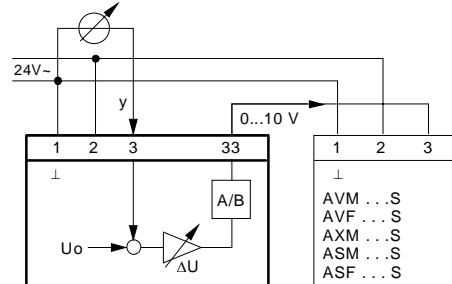


Potentiometer



Sekvensmodul 0...10 V

313529



A09421a