

97100 NAMUR, 3/2 & 5/2

Indirect solenoid actuated spool valves



- > **Port size:**
1/4" (ISO G or NPT), NAMUR Interface
- > **Main application:**
Single and double acting actuators
- > **5/2 way valve usable as 3/2 way valve**
- > **Crossover-free switching**
- > **Manual override with detent**
- > **Variable valve solenoid combination**



Technical features

Medium:

Filtered, lubricated or non-lubricated and dry compressed air

Operation:

Indirect solenoid operated spool valve

Operating pressure:

2 ... 8 bar (29 ... 116 psi)

Orifice:

6 mm

Port size:

G1/4, 1/4 NPT
3 and 5: G1/8, 1/8 NPT
NAMUR Interface with integrated recirculation from the exhaust air to the actuator spring chamber

Flow direction:

Fixed

Mounting position:

Optional

Ambient/Media temperature:

-15 ... +50°C (5 ... +122°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F).

Materials:

Housing: Aluminium anodized
Pilot flange: Plastic (PBT)
Flange plate: Aluminium
Seals: NBR

Flow conversion:

Cv US Gallon/min (water) =
l/min (air) x 0,001
Kv m³/h (water) =
l/min (air) x 0,000906

Option selector

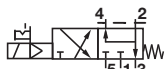
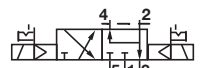
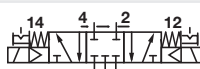
Function)	Substitute
5/2 way, spring return (3/2 way spare adaptor plate supplied)	0
5/2 way, solenoid return (3/2 way spare adaptor plate supplied)	1
5/3 way valve, APB (all ports blocked)	2
Ports size	Substitute
G1/4	0
1/4 NPT	1

971★ 0 ★ 0 ★ ★ ★ ★ ★ ★ ★ ★

Voltage	Substitute
24 V d.c.	02400
230 V a.c.	23050
Solenoid actuators	Substitute
See table on page 2 & 3	

Technical data

Housing: Aluminium anodized, Seals: NBR -15 ... +50°C (+5 ... +122°F)

Symbol	Port size			Actuation/Return	Flow (l/min)	Operating pressure (bar) (psi)		Weight (kg)	Drawing No.	Model *1)
	1	3 & 5	2 & 4							
	G1/4	G1/8	Flange	Solenoid/Spring	750	2 ... 8	29 ... 116	0,25	1	9710000
	1/4 NPT	1/8 NPT	Flange	Solenoid/Spring	750	2 ... 8	29 ... 116	0,25	1	9710010
	G1/4	G1/8	Flange	Solenoid/Solenoid	750	2 ... 8	29 ... 116	0,35	2	9711000
	1/4 NPT	1/8 NPT	Flange	Solenoid/Solenoid	750	2 ... 8	29 ... 116	0,35	2	9711010
	G1/4	G1/8	Flange	Solenoid/Solenoid	500	2 ... 8	29 ... 116	0,4	3	9712000
	1/4 NPT	1/8 NPT	Flange	Solenoid/Solenoid	500	2 ... 8	29 ... 116	0,4	3	9712010

Suitable solenoids, see below only

*1) When ordering please indicate solenoid, voltage and current type (frequency).

Solenoids for 971xxx0 only, standard voltages

	Power consumption 24 V d.c. 230 V a.c. (W) (VA)		Rated current 24 V d.c. 230 V a.c. (mA) (mA)		Protection class IP/NEMA	Ex-Protection (ATEX-Category)	Temperature Ambient/ Media (°C)	Electrical connection	Weight (kg)	Drawing No.	Circuit diagram No.	Model
	1,8	—	70	—	IP65 (with connector)	—	-15 ... +50	Connector DIN EN 175301-803, form B *1)	0,1	11	1	3050
	1,6	—	30	—	IP65 (with connector)	—	-15 ... +50	Connector DIN EN 175301-803, form A *1)	0,1	12	1	3036
	2	—	85	—	IP65 (with connector)	II 3 G Ex nA IIC T5 Gc II 3 D Ex tc IIC T95° Dc IP65	-15 ... +50	Special connector DIN EN 175301-803, form A	0,3	5	1	3046
	—	2	—	18	IP65 (with connector)	II 3 G Ex nA IIC T5 Gc II 3 D Ex tc IIC T95° Dc IP65	-15 ... +50	Special connector DIN EN 175301-803, form A	0,3	5	1	3047
	—	5	—	22	IP65 (with connector)	II 2 G Ex mb IIC T4 Gb II 2 D Ex mb tb T130°C Db	-20 ... +50	Cable length 3 m	0,3	13	15	3061
	2,7	—	115	—	IP65 (with connector)	II 2 G Ex mb IIC T5 Gb II 2 D Ex mb tb T95°C Db	-20 ... +50	Cable length 3 m	0,3	13	14	3062
	2,7	—	115	—	IP66 (with connector)	—	-10 ... +50	Connector *1) M12x1, DIN IEC 61076-2-101 Solenoid with yellow LED	0,1	14	17	3071

Standard voltages (±10%) 24 V d.c., 230 V a.c., other voltages on request. Design according to VDE 0580, EN 50014/50028. 100% duty cycle.

*1) Connector is not scope of delivery, see table »Accessories«

Approvals

Model	Approvals ATEX	Datasheet
304x	PTB 06 ATEX 2055	N/en 7.1.555
306x	PTB 03 ATEX 2015	N/en 7.1.560

Electrical connection M12 x 1

Model	Pin	Cable
	1	brown
	2	white
	3	blue
	4	black