



MEGATRONE
INDUSTRIAL SOLUTIONS

Direction Control Valves



Solenoid Actuated Spool Valves

(Direction Control Valves)
3/2, 5/2, 5/3, 5/2 NAMUR



- > **Port size:**
 - In-line :** M5, 1/8 ... 1/2 (ISO G & NPT)
 - NAMUR:** 1/4, 3/8 (ISO G & NPT)
- > High Flow Rate
- > Connector with LED light as standard
- > 3/2, 5/2, 5/3 way
- > Robust Design
- > Sub-base system for easy assembly
- > NAMUR Option Available



Technical Features :

Medium :

Compressed air, filtered to 40 µm, lubricated or non lubricated

Operation :

Solenoid

Operating Pressure :

1,5 ... 8 bar (22 ... 116 psi)

Flow :

245 ... 3350 l/min
at inlet pressure 6 bar
(87 psi) with 1 bar (14,5 psi)
drop

Mounting Position :

Optional, Preferred
Horizontal

Ambient/Media Temperature:

-5 ... +70°C (+23 ... +158°F)
Air supply must be dry enough to
avoid ice formation at
temperatures below +2°C (+35°F)

Materials :

Housing and sub-bases: Aluminium
Blanking plate: Zinc plated steel
Spool: Aluminium
Seals: NBR
Screws: Nickel plated steel
Springs: Stainless steel
Manual override:
Metal (M5, G1/8),
Plastic (G1/4 ... 1/2)

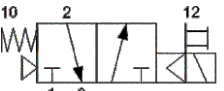
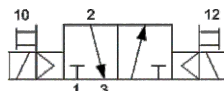
Electrical Details for Solenoid Operators

Voltage Tolerance	± 10%
Rating	100% Continuous Duty
Electrical Connection (Corresponding to Chosen Coil)	Industrial Standard; 22 mm
Solenoid	2 x 180° for M5 and G1/8, 4 x 90° for G1/4 ... 1/2
Manual Override	Push and turn to lock
Protection Class	IP65

3/2 Directional Control Valves, Normally Open (NO)

Symbol	Port Size	Actuation	Fluid/ Ambient (°C)	Pilot Supply	Flow (l/min)	Operating Pressure (Bar)
	M5	Solenoid/Spring	-5...+70	Internal	240	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	600	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	1050	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1500	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	3300	1,5 ... 8

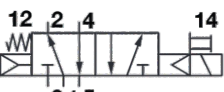
3/2 Directional Control Valves, Normally Close (NC)

Symbol	Port Size	Actuation	Fluid/ Ambient (°C)	Pilot Supply	Flow (l/min)	Operating Pressure (Bar)
	M5	Solenoid/Spring	-5...+70	Internal	240	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	600	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	1050	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1500	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	3300	1,5 ... 8
	M5	Solenoid/Spring	-5...+70	Internal	240	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	600	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	1050	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1500	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	3300	1,5 ... 8

*3/2 NAMUR Function Can Be Achieved by Applying Conversion Plate on 5/2 NAMUR Valve.

*NC = Normally Closed, NO = Normally Open

5/2 Directional Control Valves, in-Line Version

Symbol	Port Size	Actuation	Fluid/ Ambient (°C)	Pilot Supply	Flow (l/min)	Operating Pressure (Bar)
	M5	Solenoid/Spring	0 ... +70	Internal	245	1,5 ... 8
	G1/8	Solenoid/Spring	0 ... +70	Internal	600	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	1050	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1500	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	3300	1,5 ... 8
	M5	Solenoid/Spring	0 ... +70	Internal	245	1,5 ... 8
	G1/8	Solenoid/Spring	0 ... +70	Internal	600	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	1050	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1500	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	3300	1,5 ... 8

5/3 Directional Control Valves, All Ports Blocked (APB)

Symbol	Port Size	Actuation	Fluid/ Ambient (°C)	Pilot Supply	Flow (l/min)	Operating Pressure (Bar)
	M5	Solenoid/Spring	-5...+70	Internal	240	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	470	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	700	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1200	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	2400	1,5 ... 8

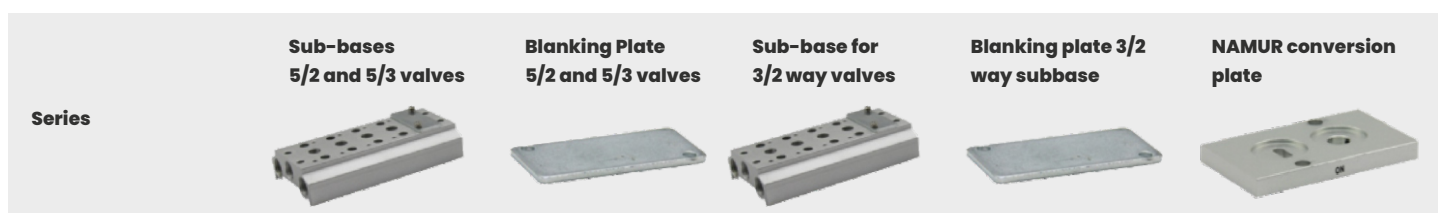
5/3 Directional Control Valves, Centre Open Exhaust (COE)

Symbol	Port Size	Actuation	Fluid/ Ambient (°C)	Pilot Supply	Flow (l/min)	Operating Pressure (Bar)
	M5	Solenoid/Spring	-5...+70	Internal	240	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	470	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	700	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1200	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	2400	1,5 ... 8

5/3 Directional Control Valves, Centre Open Pressure (COP)

Symbol	Port Size	Actuation	Fluid/ Ambient (°C)	Pilot Supply	Flow (l/min)	Operating Pressure (Bar)
	M5	Solenoid/Spring	-5...+70	Internal	240	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	470	1,5 ... 8
	G1/4	Solenoid/Spring	-5...+70	Internal	700	1,5 ... 8
	G1/8	Solenoid/Spring	-5...+70	Internal	1200	1,5 ... 8
	G1/2	Solenoid/Spring	-5...+70	Internal	2400	1,5 ... 8

Sub-Bases And Accessories



Note: 3/2 NAMUR function can be achieved by applying conversion plate on 5/2 NAMUR valve. The conversion plate needs to be orderd separately.

22 mm Solenoid Coil

Voltage	Power	inrush/hold	Connector Form
	24 V d. c.	3W	Industrial Standard
	24 V d. c.	4/2.5 VA	Industrial Standard
	110 V d. c.	3.5 VA	Industrial Standard
	220 V a. c.	3.5 VA	Industrial Standard
	240 V a. c.	6/5.0 VA	Industrial Standard



*Connector with LED light is offerd as standard



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