97105 Inline

3/2-, 5/2- and 5/3 directional valves
Actuation: electromagnetic
Indirectly controlled soft seal spool valves
G 1/4, 1/4 NPT, G 1/2, 1/2 NPT

For single and double operated actuators

Crossover-free switching, switch-over function guaranteed even with small cross section

Rest position in the event of power failure provided by mechanical return spring (monostable) design

Add-on manual override

Suitable for outdoor installation if equipped with corresponding solenoid

Minimal electrical power consumption – therefore many protection classes possible, e.g. EEx i

The solenoid valves are applicable in the protection class EEx me, EEx md, EEx m, EEx ia for zones 1, 2 (gases), 21, 22 (dusts), ATEX cat. II 2GD
Additional protection class (FM, CSA): XP, NI, AEx ia



Technical data

Medium:
Filtered, non-lubricate and dried compressed air, instrument air, nitrogen and or other non-flammable neutral, dry fluids

Operation:
Solenoid, indirectly controlled

Mounting position:
Optional; Impulse valves preferably horizontally

Nominal diameter:
ND 6 mm

Port size:
G 1/4, 1/4 NPT, G 1/2, 1/2 NPT

Operating pressure:
2,5 to 8 bar with internal air supply
0 to 8 bar with external air supply

Temperature:
Valve: -40 to +65°C
Solenoid: see solenoid table
*Please consult our technical service for use below +2°C. If installed in the open protect all connections against the penetration of moisture!

Materials:

Body: aluminium 3.0615 with surface treatment for rough environmental conditions condensate test with alternating temperatures in sulphuric environment, salt spray test with different sodium chloride solutions, tested in ammonia environment
Seals: NBR (Special perbunan)

Ordering information

5/2 directional control valve with spring return, Port size G 1/4, solenoid in protection class EEx me, 24 V DC
Type: 9710535.4200.024.00 internal air supply
Type: 9710535.4200.024.0Z external air supply
EEx e cable gland M 20x1,5
Type: 0588819

Accessories

See page 5

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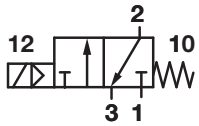
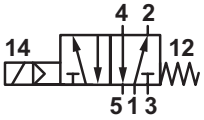
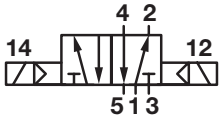
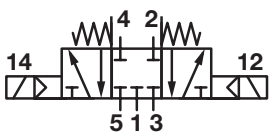


5/2



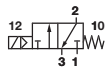
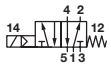
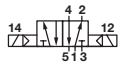
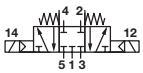


5/3

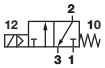
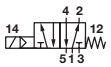
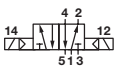


3/2-, 5/2- and 5/3 directional valves

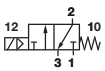
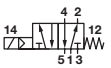
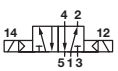
Aluminium anodized body

Symbol	Type	Port size	Function	Actuation	Operating pressure (bar)	Flow (l/min)	Weight (kg)	Dimensions No.
	9713535 *	G 1/4	3/2	Solenoid/Spring	2,5 ... 8 bar	1300	0,5	1
	9713545 *	1/4 NPT	3/2	Solenoid/Spring	2,5 ... 8 bar	1300	0,5	1
	9713555 *	G 1/2	3/2	Solenoid/Spring	2,5 ... 8 bar	2600	0,5	2
	9713565 *	1/2 NPT	3/2	Solenoid/Spring	2,5 ... 8 bar	2600	0,5	2
	9710535 *	G 1/4	5/2	Solenoid/Spring	2,5 ... 8 bar	1300	0,7	3
	9710545 *	1/4 NPT	5/2	Solenoid/Spring	2,5 ... 8 bar	1300	0,7	3
	9710555 *	G 1/2	5/2	Solenoid/Spring	2,5 ... 8 bar	2600	0,7	4
	9710565 *	1/2 NPT	5/2	Solenoid/Spring	2,5 ... 8 bar	2600	0,7	4
	9711535 *	G 1/4	5/2	Solenoid/Solenoid	2,5 ... 8 bar	1300	0,7	5
	9711545 *	1/4 NPT	5/2	Solenoid/Solenoid	2,5 ... 8 bar	1300	0,7	5
	9712535 *	G 1/4	5/3	Solenoid/Solenoid mid position APB	2,5 ... 8 bar	950	0,7	6
	9712545 *	1/4 NPT	5/3	Solenoid/Solenoid mid position APB	2,5 ... 8 bar	950	0,7	6

Brass body

Symbol	Type	Port size	Function	Actuation	Operating pressure (bar)	Flow (l/min)	Weight (kg)	Dimensions No.
	9713635 *	G 1/4	3/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,0	1
	9713645 *	1/4 NPT	3/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,0	1
	9713655 *	G 1/2	3/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,0	2
	9713665 *	1/2 NPT	3/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,0	2
	9710635 *	G 1/4	5/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,7	3
	9710645 *	1/4 NPT	5/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,7	3
	9710655 *	G 1/2	5/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,7	4
	9710665 *	1/2 NPT	5/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,7	4
	9711635 *	G 1/4	5/2	Solenoid/Solenoid	2,5 ... 8 bar	1300	1,7	5
	9711645 *	1/4 NPT	5/2	Solenoid/Solenoid	2,5 ... 8 bar	1300	1,7	5

Stainless steel body

Symbol	Type	Port size	Function	Actuation	Operating pressure (bar)	Flow (l/min)	Weight (kg)	Dimensions No.
	9713735 *	G 1/4	3/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,1	1
	9713745 *	1/4 NPT	3/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,1	1
	9713755 *	G 1/2	3/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,1	2
	9713765 *	1/2 NPT	3/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,1	2
	9710735 *	G 1/4	5/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,8	3
	9710745 *	1/4 NPT	5/2	Solenoid/Spring	2,5 ... 8 bar	1300	1,8	3
	9710755 *	G 1/2	5/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,8	4
	9710765 *	1/2 NPT	5/2	Solenoid/Spring	2,5 ... 8 bar	2600	1,8	4
	9711735 *	G 1/4	5/2	Solenoid/Solenoid	2,5 ... 8 bar	1300	1,8	5
	9711745 *	1/4 NPT	5/2	Solenoid/Solenoid	2,5 ... 8 bar	1300	1,8	5

When ordering please indicate solenoid, voltage and current type (frequency)
Valve function: APB = All Ports Blocked

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