

2/2 Directional Control Valves



Nominal sizes 12 to 50
Solenoid pilot operated
piston seat valves
Port size G 1/2 to G 2

Operating pressure: 16 bar max. (see parameters)

Catalog Register
P9



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Description (standard units)

Directional control valve for filtered, lubricated or non-lubricated air

Flow direction: Fixed
Temperature range: -10 to +60 °C

Features

- High switching frequency
- With foreign fluid working from 0 bar upwards
- Low electric power requirements
- Easily interchangeable solenoid system
- High flow rate
- Standard manual override with normally closed valves



Parameters

Symbol	Nominal size	Port size	Operating pressure [bar]		k _v -value (CV (US) = k _v × 1.2)	Switching time [ms]	Weight [kg]	Dimensional drawing No.	Cat. No.	
			min.	max.					Valve	Solenoid
	12	G 1/2	1	16	3.0	20	0.2	01	7030117.	0201
	12	G 1/2	1	18	3.0	20	0.2	01	7030119.	0201 ¹⁾
	20	G 3/4	1	16	8.5	25	1.2	02	7032130.	0201
	25	G 1	1	16	8.5	25	1.2	02	7032230.	0201
	32	G 1 1/4	1	16	10.6	40	1.3	02	7032330.	0201
	40	G 1 1/2	1	10	29.4	190	2.6	02	7032430.	0201
	50	G 2	1	10	29.4	190	2.6	02	7032530.	0201
	12	G 1/2	1	18	3.0	20	0.2	01	7030707.	0201 ¹⁾
	20	G 3/4	1	15	8.5	25	1.2	02	7032630.	0201
	25	G 1	1	15	8.5	25	1.2	02	7032730.	0201
	32	G 1 1/4	1	15	10.6	40	1.3	02	7032830.	0201
	40	G 1 1/2	1	10	29.4	190	2.6	02	7032930.	0201
	50	G 2	1	10	29.4	190	2.6	02	7033030.	0201
	20	G 3/4	0	15	8.5	25	1.2	02	7032131.	0201
	25	G 1	0	15	8.5	25	1.2	02	7032231.	0201
	32	G 1 1/4	0	15	10.6	40	1.3	02	7032331.	0201
	40	G 1 1/2	0	10	29.4	190	2.6	02	7032431.	0201
	50	G 2	0	10	29.4	190	2.6	02	7032531.	0201
	20	G 3/4	0	14	8.5	25	1.2	02	7032631.	0201
	25	G 1	0	14	8.5	25	1.2	02	7032731.	0201
	32	G 1 1/4	0	14	10.6	40	1.3	02	7032831.	0201
	40	G 1 1/2	0	10	29.4	190	2.6	02	7032931.	0201
	50	G 2	0	10	29.4	190	2.6	02	7033031.	0201

¹⁾ For fluid temperature up to 100 °C max.

²⁾ With foreign fluid connection, control pressure must be 1 bar higher than the operating pressure

Further versions available on request

For vacuum, direct pneumatically actuated, impulse actuated

Solenoids

Picture	Rated power			Degree of protection to DIN 40050 ¹⁾	Perm. relative air humidity [%]	Temperatures ²⁾			Weight [kg]	Voltage	Cat. No. Solenoids	Constructional features
	DC	AC Inrush	AC Holding			Fluid max. [°C]	Ambience [°C]	Max. temp. sum [°C]				
	11 W	22 VA	15 VA	IP 00	<80	+80	-25 to +60	120	0.15	O ³⁾	0200	Epoxy encapsulated, plug interface to DIN 43650 A
	11 W	22 VA	15 VA	IP 65	<80	+80	-25 to +60	120	0.18	O ³⁾	0201	Epoxy encapsulated, connector (black) to DIN 43650 A

Connection possibilities for epoxy encapsulated solenoids

Picture	Description	Color	Cat. No. (assembly)	Remarks
	Connector to DIN 43650 A	black grey	0570275 0657859	12 ... 250 VDC/VAC
	Connector to DIN 43650 A with LED	black grey	0664031 0664030	15 ... 30 VDC
	Connector to DIN 43650 A with lamp	black grey	0663034 0663860	150 ... 250 VDC/VAC

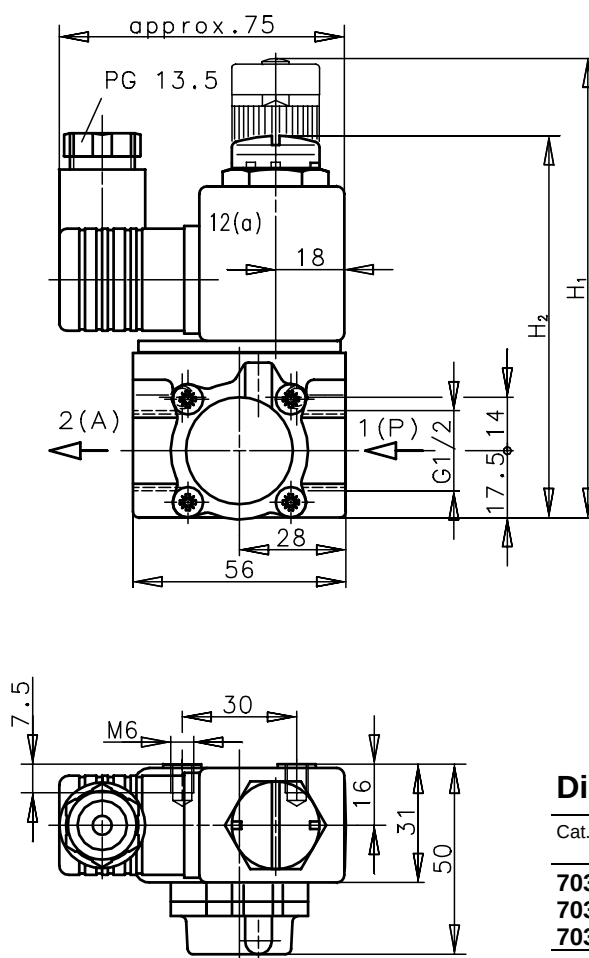
¹⁾ Degree of protection applies to complete assembly composed of valve and solenoid, with electrical wiring according to regulations.

²⁾ Temperatures mentioned refer to solenoids only. Permissible valve temperatures are not considered here. The max. temperature sum composed of the ambient- and fluid temperature must not be exceeded.

³⁾ DC or AC, depending on winding

Dimensional drawing [mm]

01



Dimensional table [mm]

Cat. No.	H ₁	H ₂
7030117.0201	121	—
7030119.0201	121	—
7030707.0201	—	100

Spare parts kit (internal fluid)

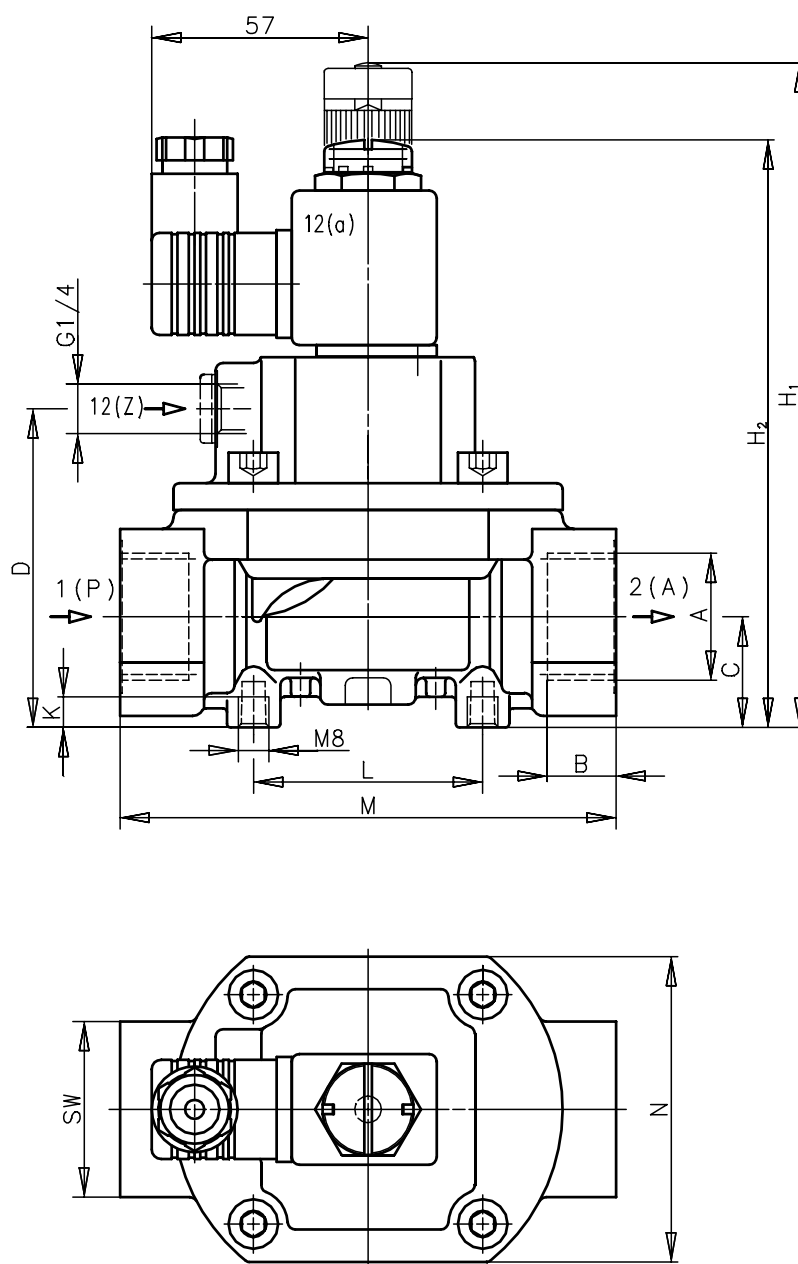
Nominal size	Valve Cat. No.	Spare parts kit Cat. No.
12	7030117	0566177
12	7030119	0566178
20	7032130	0555208
25	7032230	0555208
32	7032330	0555208
40	7032430	0555212
50	7032530	0555212
12	7030707	0566179
20	7032630	0555210
25	7032730	0555210
32	7032830	0555210
40	7032930	0555214
50	7033030	0555214

Spare parts kit (external fluid)

Nominal size	Valve Cat. No.	Spare parts kit Cat. No.
20	7032131	0555208
25	7032231	0555208
32	7032331	0555208
40	7032431	0546032
50	7032531	0546032
20	7032631	0546398
25	7032731	0546398
32	7032831	0546398
40	7032931	0555214
50	7033031	0555214

Dimensional table [mm]

02



Dimensional table [mm]

Cat. No.	A	B	C	D	H1	H2	K	L	M	N	SW
7032130/31.0201	G 3/4	20	29	83.5	174	—	8	60	130	80	46
7032630/31.0201	G 3/4	20	29	83.5	—	154	8	60	130	80	46
7032230/31.0201	G 1	18	29	83.5	174	—	8	60	130	80	46
7032730/31.0201	G 1	18	29	83.5	—	154	8	60	130	80	46
7032330/31.0201	G 1 1/4	20	33	91	181	—	8	60	130	108	55
7032830/31.0201	G 1 1/4	20	33	91	—	161	8	60	130	108	55
7032430/31.0201	G 1 1/2	28	45	133	222	—	12	90	182	142	75
7032930/31.0201	G 1 1/2	28	45	133	—	202	12	90	182	142	75
7032530/31.0201	G 2	28	45	133	222	—	12	90	182	142	75
7033030/31.0201	G 2	28	45	133	—	202	12	90	182	142	75