

SOLENOID ACTUATED VALVES SERIES J







New valve series, which will replace popular L series in future. Product manufacture qualities are of course kept and new improvements as lower wattage, possibility of mounting with bigger screws, compact shape and not least also innovated design are added. Valves are solenoid pilot actuated. Valves are offered with port threads G1/8", G1/4", G3/8" and G1/2".

Valves series J contains spool and sleeve assembly, which guarantee long lifetime of valve.

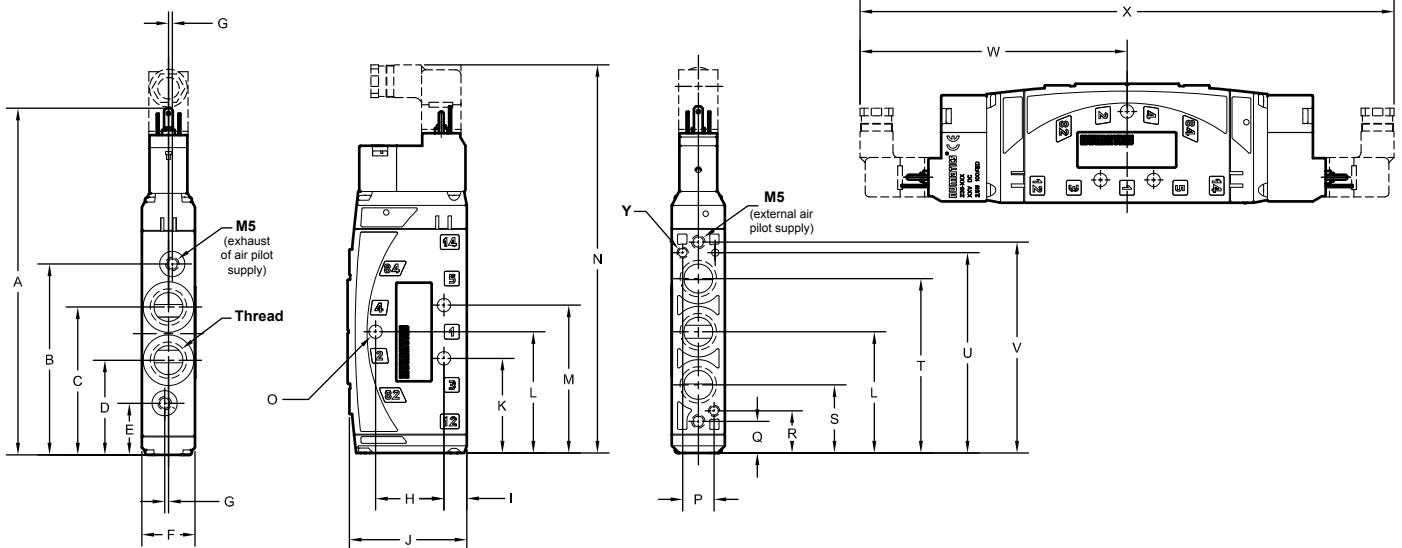
Series	J11	J22	J33	J34
Ports	G1/8"	G1/4"	G3/8"	G1/2"
Connection of external pressure supply port	M5			
Flow capacity [Nl/min]	500	1000	2200	2500
Working pressure [MPa]	0,18 to 1,0 (vacuum to 1,0 MPa when external pilot supply is used)			
Pilot pressure range [MPa]	0,18 to 1,0			
Power input [W, VA]	2,5W for DC voltage, 3VA for AC voltage			
Response time for DC voltage [ms]	10 energize, 20 de-energize	12 energize, 40 de-energize	15 energize, 70 de-energize	15 energize, 70 de-energize
Response time for AC voltage [ms]	10 energize, 26 de-energize	13 energize, 40 de-energize	17 energize, 73 de-energize	17 energize, 73 de-energize
Temperature range [°C]	medium temperature max. 50, ambient temperature -20 to +50			

Order codes

NJ22 BA4 52 C G 60S 61

Size		Function		Coil type		Options		Voltage	
NJ11	series J11 thread G1/8"	BA4		C	standard, for connector to DIN EN 175301-803 (formerly DIN 43650), type C, 8 mm pin size	60S	standard with non-locking manual override, 0,18 to 1,0 MPa	61	24 V DC ± 10%
NJ22	series J22 thread G1/4"	BB4				67W	solenoid with locking manual override, 0,18 to 1,0 MPa	40*	230 V AC ± 10% 50-60 Hz
NJ33	series J33 thread G3/8"	BB5				000	low wattage coil 1W, with non-locking manual override, max. pressure 0,8 MPa	30*	110 V AC ± 10% 50-60 Hz
NJ34	series J34 thread G1/2"	BB6				14A	option 000 with external pilot supply	*) This voltage is not available for coil for pressure up to 1,6 MPa	
						67Y	option 60S with external pilot supply		
						68J	coil without manual override, 0,18 to 1,0 MPa		

Dimensions of valve series J



Series	Thread	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Weight [kg]
J11	G1/8"	127,3	69,1	52,1	34,1	17,1	16,2	25	11	46,8	35,1	43,1	51,1	143,7	44	10	12,9	18,6	26,9	59,3	67,6	73,3	100,6	201,2	M3	0,174	
J22	G1/4"	136,9	75,4	58,4	37,4	20,4	21,1	27	9	47	37,4	47,9	58,4	15,3	5,3	12,4	15,2	16,7	26,9	68,9	79,1	83,3	105,4	210,8	M4	0,276	
J33	G3/8"	182	115,2	87,7	56,7	29,2	30,5	35,5	16	68	27,2	72,2	117,2	198,4	6,4	18	19,7	27,2	44,2	100,2	117,2	124,7	126,2	252,4	M5	0,665	
J34	G1/2"	182	115,2	87,7	56,7	29,2	30,5	35,5	16	68	27,2	72,2	117,2	198,4	6,4	18	19,7	27,2	44,2	100,2	117,2	124,7	126,2	252,4	M5	0,665	

Coils for valve series J

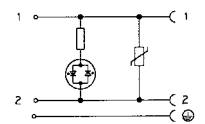
Standard coils DIN EN 175301-803, form C, type 8

Order codes	Voltage	Type	Options (see options in order code of valve)	Weight [kg]
N236-570	24V DC	2,5 W, 1,0 MPa	60S	0,04
N237-1177	120V 50-60 Hz	3 VA, 1,0 MPa	60S	0,04
N237-1178	230V 50-60 Hz	3 VA, 1,0 MPa	60S	0,04
N236-575	24V DC	1 W, 0,8 MPa	000	0,04
N237-1182	120V 50-60 Hz	1,5 VA, 0,8 MPa	000	0,04
N237-1183	230V 50-60 Hz	1,5 VA, 0,8 MPa	000	0,04
N236-437	24V DC	2,5 W, 1,6 MPa	66V	0,04



Connector DIN EN 175301-803, form C, type 8 with cable grommet PG9

Order codes	Type	Voltage [V]	Wiring	Colour	Weight [kg]
N230-802	standard	up to 250	—	black	0,01
N230-803	with red LED and varistor	24	b	transparent	0,01
N230-804	with red LED and varistor	110 to 130	b	transparent	0,01



Wiring b

Conversion of internal to external air pilot supply of valve series J

External air pilot supply is used, when air supply pressure is lower than 0,18 MPa (1,8 bar) as well as for vacuum and or if another medium than compressed air is used. It is necessary to order valve which is already prepared for this feature or change standard setting (when air pilot supply is drawn from valve supply port 1) in that cases.



Picture 1
Position of gasket for internal pilot supply



Picture 2
Position of gasket for external pilot supply

When converting from internal to external pilot supply, please proceed as follows:

- 1) Unmount connector
- 2) Unscrew two screws, unmount solenoid, unscrew four screws of valve cap, take off the gasket and insert gasket as shown on picture 2
- 3) Check proper gasket settings, re-mount and fix the valve cap and then also solenoid and connector
- 4) The same operation must be proceed when valve is double solenoid
- 5) Connect modified compressed air supply with pressure 1 to 10 bars into the port marked 12 or 14, you can mount silencers into ports marked 82 and 8