





The name "System 8" stands for a modular system of solenoid coils, armature systems, solenoid operators and solenoid valves. The diameter of the armatures of all valve components is approximately 8 mm. This value is the major characteristic of this type. The components' efficiency has been increased to the optimum in years of simulation, construction and practical testing.

### **APPLICATION OF SYSTEM 8**

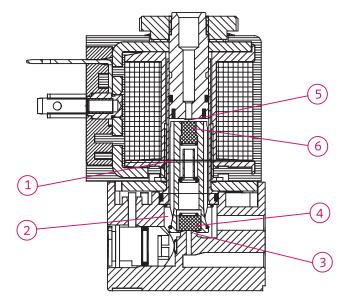
The solenoid operators and solenoid valves of system 8 can be used for operating 2/2- or 3/2 way valves, especially in pneumatics. Available switching functions are *normally closed* and *normally open*.

For 3/2 way valves of this series, typical maximum values for operating pressure and nominal orifice are 16 bar/2.5 mm. 2/2 way solenoid operators and solenoid valves can also be used for controlling liquids.

### **FUNCTION**

While the solenoid operator/solenoid valve is deenergized, the armature<sup>1</sup> is being pushed down on the lower valve seat<sup>3</sup> by the reset spring<sup>2</sup>. The lower valve seat is closed by a sealing element<sup>4</sup>. In this switch position the upper valve seat5 in the magnetic core is open. When the valve is energized, the magnetic force exceeds the force of the reset spring and moves the armature into the opposite extreme position. In this case the upper valve seat5 is closed by the sealing element6, whereas the lower valve seat3 is open.

Solenoid operators and solenoid valves have identical functionality. However, if solenoid operators are ordered, neither the lower valve seat nor the valve body is shipped.



Those components have to be provided by the customer. 2/2 way valves do not have an upper valve seat. Besides that, the function of the magnet is identical.

#### Note

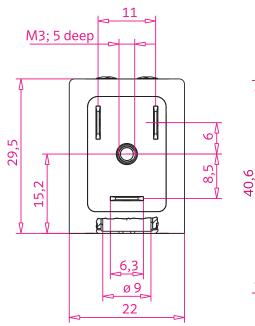
We reserve the right to make product changes without notice. For use other than general industrial pneumatics, please consult factory.

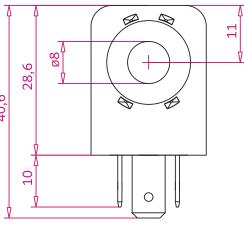
Width: Connection type: Moulding material: 22 mm industry form thermoset resin

### **General Data**

Voltage tolerance	·· ± 10 %
Ambient temperature	20 °C to + 50 °C
Relative duty cycle	100 %
Insulation class of insulating materials	
according to DIN VDE 0580	F
Degree of protection with connector	
according to EN 60529	<ul> <li>IP 65 (IP 67 possible with accessoires)</li> </ul>
Imprint	·· nass magnet (customer imprint possible)
Protection class	]







Part No.	Voltage	Frequency [Hz]	Rated Power [W] [VA]	Power Level	Δθ <sub>32</sub> [K]
108-030-0048	24 V DC	-	2,0	2	35
108-030-0862	110 V AC	50	4,1	2	50
108-030-0862	110 V AC	60	3,3	2	50
108-030-0798	230 V AC	50	3,9	2	50
108-030-0798	230 V AC	60	3,2	2	50
108-030-0050	24 V DC	-	2,6	3	45
108-030-0052	24 V AC	50	6,0	3	75
108-030-0052	24 V AC	60	4,9	3	75
108-030-0049	220 V AC	50	6,0	3	75
108-030-0049	220 V AC	60	4,9	3	75
108-030-0051	230 V AC	50	6,0	3	75
108-030-0051	230 V AC	60	4,9	3	75
108-030-0043	12 V DC	-	4,6	4	70
108-030-0043	24 V AC	50	7,1	4	90
108-030-0044	24 V DC	-	4,8	4	70
108-030-0044	48 V AC	50	7,7	4	90
108-030-0047	220 V AC	50	8,5	4	95
108-030-0046	230 V AC	50	7,9	4	90
108-030-0046	230 V AC	60	6,4	4	90
108-030-0047	240 V AC	60	9,0	4	95
108-030-1169	12 V DC	-	5,5	5	85
108-030-0045	24 V DC	-	6,0	5	85
108-030-1169	24 V AC	50	9,2	5	105
108-030-0045	48 V AC	60	7,6	5	85
108-030-1120	230 V AC	50	9,4	5	102

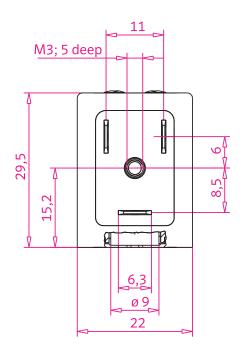
 $\Delta \vartheta_{^{32}}[K]:$  steady-state over-temperature according to VDE 0580

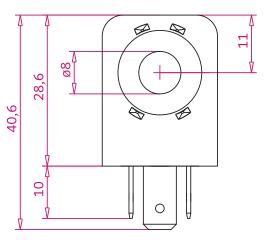
Width: Connection type: Moulding material: 22 mm industry form thermoplastic

### **General Data**

Voltage tolerance	······ ± 10 %
Ambient temperature	20 °C to + 50 °C
Relative duty cycle	
Insulation class of insulating materials	
according to DIN VDE 0580	F
Degree of protection with connector	
according to EN 60529 ·····	IP 65
	nass magnet (customer imprint possible)
Protection class	······







Part No.	Voltage	Frequency [Hz]	Rated Power [W] [VA]	Power Level	Δ <del>θ</del> 32 <b>[K]</b>
108-030-0278	24 V DC	-	1,1	1	20
108-030-0273	24 V DC	-	2,0	2	35
108-030-0279	24 V AC	50	3,6	2	50
108-030-0279	24 V AC	60	3,0	2	50
108-030-0268	110 V AC	50	4,1	2	50
108-030-0268	110 V AC	60	3,3	2	50
108-030-0276	220 V AC	50	3,9	2	50
108-030-0276	220 V AC	60	3,2	2	50
108-030-0294	230 V AC	50	3,9	2	50
108-030-0294	230 V AC	60	3,2	2	50
108-030-0271	12 V DC	-	2,4	3	45
108-030-0275	24 V DC	-	2,6	3	45
108-030-0260	48 V DC	-	2,7	3	75
108-030-0260	110 V AC	50	6,0	3	75
108-030-0274	110 V DC	-	3,6	3	75
108-030-0274	220 V AC	50	6,0	3	105
108-030-0281	230 V AC	50	6,0	3	75
108-030-0281	240 V AC	60	5,5	3	75
108-030-0257	12 V AC	-	4,6	4	100
108-030-0257	24 V DC	50	7,1	4	100
108-030-0258	24 V DC	-	4,8	4	70
108-030-0258	48 V AC	50	8,0	4	70
108-030-0259	48 V DC	-	5,0	4	70
108-030-0267	110 V AC	50	8,6	4	100
108-030-0267	110 V AC	60	6,6	4	100
108-030-0261	220 V AC	50	9,3	4	105
108-030-0269	230 V AC	50	7,9	4	95
108-030-0269	230 V AC	60	6,4	4	99
108-030-0270	12 V AC	50	8,8	5	105
108-030-0264	24 V DC	-	6,0	5	85
108-030-0263	24 V AC	50	9,3	5	110
108-030-0266	110 V AC	50	8,6	5	105
108-030-0286	110 V DC	-	6,1	5	105
108-030-0266	120 V AC	60	8,7	5	105
108-030-0272	110 V DC	-	4,9	5	105
108-030-0272	220 V AC	50	8,5	5	105
108-030-0287	220 V AC	50	8,0	5	105
108-030-0286	230 V AC	60	9,7	5	105
108-030-0298	220 V AC	50	8,0	5	105
108-030-0298	230 V AC	50	9,4	5	105

 $\Delta \vartheta_{^{32}}[K]:$  steady-state over-temperature according to VDE 0580

Width: Connection type: Moulding material:

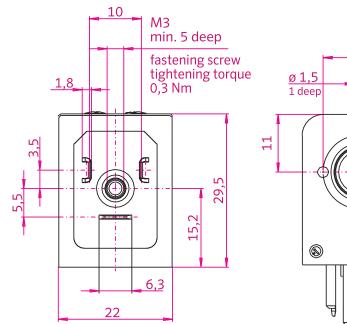
### form B – EN 175301-803-B thermoset resin

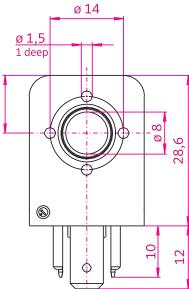
22 mm

### **General Data**

Ambient temperature ······
Relative duty cycle
Insulation class of insulating materials
according to DIN VDE 0580 ·······F
Degree of protection with connector
according to EN 60529 IP 65 (IP 67 possible with accessoires)
Imprint nass magnet (customer imprint possible)
Protection class ·······







Part No.	Voltage	Frequency [Hz]	Rated Power [W] [VA]	Power Level	Δθ₃2 <b>[K]</b>
108-030-0524	24 V DC	-	6,0	5	85
108-030-0524	48 V AC	60	7,6	5	85
108-030-0525	110 V AC	50	8,6	5	105
108-030-0525	120 V AC	60	8,7	5	105

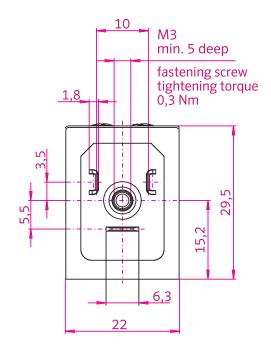
Width: Connection type: Moulding material:

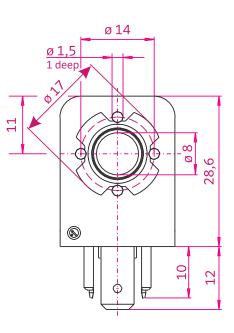
#### 22 mm form B – EN 175301-803-B thermoplastic

### **General Data**

Voltage tolerance ·····	
Ambient temperature	
Relative duty cycle	· 100 %
Insulation class of insulating materials	
according to DIN VDE 0580 ·····	٠F
Degree of protection with connector	
according to EN 60529	· IP 65
Imprint	• nass magnet (customer imprint possible)
Protection class	







Part No.	Voltage	Frequency [Hz]	Rated Power [W] [VA]	Power Level	Δ <del>θ</del> ₃2 <b>[K]</b>
108-030-0889	24 V DC	-	1,7	2	35
108-030-0891	24 V DC	-	2,6	3	45
108-030-0892	230 V AC	50	6,0	3	75
108-030-0892	230 V AC	60	4,9	3	75
108-030-0887	24 V DC	-	4,8	4	70
108-030-0887	48 V AC	50	7,7	4	70
108-030-0890	110 V DC	-	4,9	4	100
108-030-0890	220 V AC	50	8,5	4	100
108-030-0893	24 V AC	50	7,9	4	95
108-030-0893	24 V AC	60	6,4	4	95
108-030-0888	24 V DC	-	6,0	5	85
108-030-0888	48 V AC	60	7,6	5	85

Width: Connection type: Moulding material:

General Data

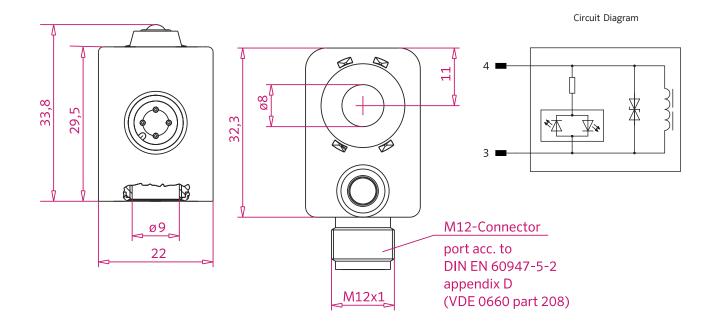
Voltage tolerance ····· Ambient temperature ····· Relative duty cycle ·····	- 20 °C to + 50 °C
Insulation class of insulating materials according to DIN VDE 0580 Degree of protection with connector	F
according to EN 60529 Imprint Protection class	nass magnet (customer imprint possible)

22 mm

M 12 metal thread

thermoset resin





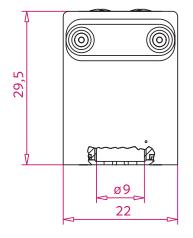
Part No.	Voltage	Rated Power [W]	Power Level	Δ <del>θ</del> ₃₂ <b>[K]</b>	LED yellow
108-030-1109	24 V DC	2,5	3	45	х
108-030-0240	24 V DC	4,8	4	70	х

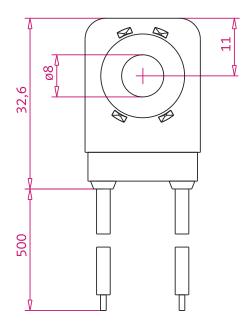
Width: Connection type: Moulding material: 22 mm flying leads thermoplastic

### **General Data**

Voltage tolerance	· ± 10 %
Ambient temperature	20 °C to + 50 °C
Relative duty cycle	· 100 %
Insulation class of insulating materials	
according to DIN VDE 0580	٠F
Degree of protection	· IP 65
Imprint	• nass magnet (customer imprint possible)
Protection class	· []]







Part No.	Voltage	Frequency [Hz]	Rated Power [W] [	Power Leve	el Δθ₃₂[K]	Length of Flying Leads
108-030-0788	24 V DC	-	2,6	3	45	500 mm
108-030-0785	48 V DC	-	2,7	3	45	500 mm
108-030-0784	24 V DC	-	4,8	4	70	500 mm
108-030-0784	48 V AC	50	8	3,5 4	70	500 mm
108-030-0785	110 V AC	50	6	i,0 4	45	500 mm
108-030-0786	24 V DC	-	6,0	5	85	500 mm

Width: Connection type: Moulding material:

### **General Data**

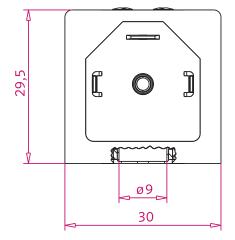
Voltage tolerance ······
Ambient temperature 20 °C to + 50 °C
Relative duty cycle ······
Insulation class of insulating materials
according to DIN VDE 0580 ······ F
Degree of protection with connector
according to EN 60529 IP 65 (IP 67 possible with accessoires)
Imprint nass magnet (customer imprint possible)
Protection class

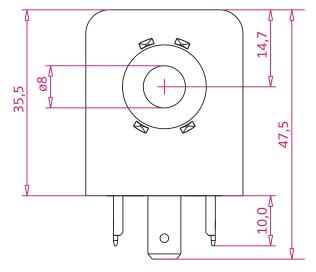
30 mm

thermoset resin

form A - EN 175301-803-A







Part No.	Voltage	Frequency [Hz]	Rated Power [W] [VA]	Power Level	Δθ₃2 <b>[K]</b>
108-030-1089	24 V DC	-	2,1	3	35
108-030-0093	24 V DC	-	2,7	4	35
108-030-0716	24 V AC	50	5,2	4	70
108-030-0716	24 V AC	60	3,9	4	60
108-030-0092	220 V AC	50	4,9	4	60
108-030-0092	240 V AC	60	4,8	4	60
108-030-0094	24 V DC	-	4,5	5	60
108-030-0098	48 V DC	-	4,9	5	60
108-030-0477	110 V AC	50	7,6	5	70
108-030-0477	120 V AC	60	6,9	5	70
108-030-0096	48 V AC	50	9,9	6	85
108-030-0096	48 V AC	60	7,1	6	85
108-030-0095	110 V AC	-	6,9	6	90
108-030-0097	110 V AC	50	10,5	6	90
108-030-0097	120 V AC	60	9,9	6	90
108-030-0095	220 V AC	50	10,5	6	90

Width: Connection type: Moulding material:

### **General Data**

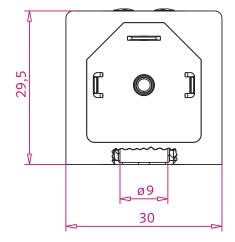
Voltage tolerance
Ambient temperature ······
Relative duty cycle 100 %
Insulation class of insulating materials
according to DIN VDE 0580 ······F
Degree of protection with connector
according to EN 60529 ······
Imprint nass magnet (customer imprint possible)
Protection class ······

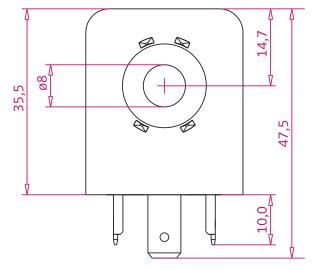
30 mm

thermoplastic

form A - EN 175301-803-A







108-030-0570         24 V DC         -         0,7         1         15           108-030-0559         24 V DC         -         2,1         3         35           108-030-0564         12 V DC         -         2,6         4         40           108-030-0557         24 V AC         50         5,2         4         70           108-030-0557         24 V AC         60         3,9         4         70           108-030-0555         24 V AC         60         3,9         4         60           108-030-0555         48 V DC         -         2,7         4         40           108-030-0555         48 V DC         -         3,4         4         60           108-030-0555         110 V AC         50         4,8         4         60           108-030-0553         220 V AC         60         3,7         4         60           108-030-0554         110 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         5,3         75         75           108-030-0556         110 V DC         50         7,6         5         70           108-030-0556	Part No.	Voltage	Frequency [Hz]	Rated Power [W] [VA]	Power Level	∆θ₃₂[K]
108-030-0564       12 V DC       -       2,6       4       40         108-030-0557       24 V AC       50       5,2       4       70         108-030-0557       24 V AC       60       3,9       4       70         108-030-0550       24 V AC       60       3,9       4       60         108-030-0550       24 V DC       -       2,7       4       60         108-030-0555       48 V DC       -       3,4       4       60         108-030-0555       10 V AC       50       4,8       4       60         108-030-0553       220 V AC       50       4,5       5       60         108-030-0553       220 V AC       60       3,7       4       60         108-030-0554       10 V DC       -       4,5       5       60         108-030-0554       10 V DC       -       6,0       5       75         108-030-0556       100 V AC       50       7,6       5       70         108-030-0556       120 V AC       60       6,9       5       75         108-030-0556       120 V AC       50       7,9       5       75         108-030-0558 <td< td=""><td>108-030-0570</td><td>24 V DC</td><td>-</td><td>0,7</td><td>1</td><td>15</td></td<>	108-030-0570	24 V DC	-	0,7	1	15
108-030-0557         24 V AC         50         5,2         4         70           108-030-0557         24 V AC         60         3,9         4         70           108-030-0550         24 V DC         -         2,7         4         40           108-030-0555         48 V DC         -         3,4         4         60           108-030-0555         110 V AC         50         4,8         4         60           108-030-0553         220 V AC         50         4,9         4         60           108-030-0553         220 V AC         60         3,7         4         60           108-030-0553         220 V AC         60         3,7         4         60           108-030-0554         110 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         4,5         5         75           108-030-0556         110 V AC         50         7,6         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0554         220 V AC         50         7,9         5         75           108-030-0558 <td>108-030-0559</td> <td>24 V DC</td> <td>-</td> <td>2,1</td> <td>3</td> <td>35</td>	108-030-0559	24 V DC	-	2,1	3	35
108-030-0557       24 V AC       60       3,9       4       70         108-030-0560       24 V DC       -       2,7       4       40         108-030-0555       48 V DC       -       3,4       4       60         108-030-0555       110 V AC       50       4,8       4       60         108-030-0553       220 V AC       50       4,9       4       60         108-030-0553       220 V AC       60       3,7       4       60         108-030-0554       220 V AC       60       3,7       4       60         108-030-0554       24 V DC       -       4,5       5       60         108-030-0554       110 V DC       -       4,5       5       60         108-030-0556       110 V DC       -       6,0       5       75         108-030-0556       110 V DC       -       5,3       5       70         108-030-0556       120 V AC       50       7,6       5       70         108-030-0554       220 V AC       50       7,9       5       75         108-030-0558       12 V DC       -       6,2       6       85         108-030-0558       <	108-030-0564	12 V DC	-	2,6	4	40
108-030-0560         24 V DC         -         2,7         4         40           108-030-0555         48 V DC         -         3,4         4         60           108-030-0555         110 V AC         50         4,8         4         60           108-030-0553         220 V AC         50         4,9         4         60           108-030-0553         220 V AC         60         3,7         4         60           108-030-0554         24 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         6,0         5         75           108-030-0556         110 V AC         50         7,6         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0556         120 V AC         50         7,9         5         75           108-030-0558         12 V DC         -         6,2         6         85           108-030-0558         12 V DC         -         6,2         6         85           108-030-0558	108-030-0557	24 V AC	50	5,2	4	70
108-030-0555       48 V DC       -       3,4       4       60         108-030-0555       110 V AC       50       4,8       4       60         108-030-0553       220 V AC       50       4,9       4       60         108-030-0553       220 V AC       60       3,7       4       60         108-030-0553       220 V AC       60       3,7       4       60         108-030-0554       24 V DC       -       4,5       5       60         108-030-0554       110 V DC       -       6,0       5       75         108-030-0556       110 V DC       -       5,3       5       70         108-030-0556       110 V AC       50       7,6       5       70         108-030-0556       110 V AC       50       7,6       5       70         108-030-0556       120 V AC       60       6,9       5       75         108-030-0556       120 V AC       50       7,9       5       75         108-030-0558       12 V DC       -       6,2       6       85         108-030-0553       12 V DC       -       6,8       6       85         108-030-0563	108-030-0557	24 V AC	60	3,9	4	70
108-030-0555         110 V AC         50         4,8         4         60           108-030-0553         220 V AC         50         4,9         4         60           108-030-0553         220 V AC         60         3,7         4         60           108-030-0551         220 V AC         60         3,7         4         60           108-030-0561         24 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         6,0         5         75           108-030-0556         110 V AC         50         76         5         70           108-030-0556         110 V AC         50         7,6         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0554         220 V AC         50         7,9         5         75           108-030-0554         220 V AC         50         7,9         5         75           108-030-0563         12 V DC         -         6,2         6         85           108-030-0563         12 V DC         -         6,8         6         85           108-030-0563 <td>108-030-0560</td> <td>24 V DC</td> <td>-</td> <td>2,7</td> <td>4</td> <td>40</td>	108-030-0560	24 V DC	-	2,7	4	40
108-030-0553         220 V AC         50         4,9         4         60           108-030-0553         220 V AC         60         3,7         4         60           108-030-0554         24 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         6,0         5         75           108-030-0559         110 V DC         -         5,3         5         75           108-030-0556         110 V AC         50         7,6         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0556         120 V AC         50         7,9         5         75           108-030-0559         230 V AC         50         7,9         5         75           108-030-0558         12 V DC         -         6,2         6         85           108-030-0563         12 V DC         -         6,8         6         85           108-030-0563         14 V DC         -         6,8         6         85           108-030-0563	108-030-0555	48 V DC	-	3,4	4	60
108-030-0553         220 V AC         60         3,7         4         60           108-030-0561         24 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         6,0         5         75           108-030-0556         110 V DC         -         5,3         5         75           108-030-0556         110 V AC         50         76         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0554         220 V AC         50         7,6         5         70           108-030-0554         220 V AC         50         7,9         5         75           108-030-0559         230 V AC         50         7,9         5         75           108-030-0558         12 V DC         -         6,2         6         85           108-030-0563         24 V DC         -         6,8         6         85           108-030-0563         24 V DC         -         6,8         6         85           108-030-0563         48 V AC         50         9,9         6         90	108-030-0555	110 V AC	50	4,8	4	60
108-030-0561         24 V DC         -         4,5         5         60           108-030-0554         110 V DC         -         6,0         5         75           108-030-0569         110 V DC         -         5,3         5         75           108-030-0556         110 V AC         50         7,6         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0556         120 V AC         60         6,9         5         70           108-030-0554         220 V AC         50         8,0         5         75           108-030-0559         230 V AC         50         7,9         5         75           108-030-0569         230 V AC         50         7,9         5         75           108-030-0563         12 V DC         -         6,2         6         85           108-030-0563         24 V DC         -         6,8         6         85           108-030-0563         48 V AC         50         9,9         6         90	108-030-0553	220 V AC	50	4,9	4	60
108-030-0554       110 V DC       -       6,0       5       75         108-030-0569       110 V DC       -       5,3       5       75         108-030-0556       110 V AC       50       7,6       5       70         108-030-0556       120 V AC       60       6,9       5       70         108-030-0554       220 V AC       60       6,9       5       70         108-030-0554       220 V AC       50       7,9       5       75         108-030-0554       220 V AC       50       7,9       5       75         108-030-0559       230 V AC       50       7,9       5       75         108-030-0558       12 V DC       -       6,2       6       85         108-030-0553       24 V DC       -       6,8       6       85         108-030-0563       48 V AC       50       9,9       6       90	108-030-0553	220 V AC	60	3,7	4	60
108-030-0569110 V DC-5,3575108-030-0556110 V AC507,6570108-030-0556120 V AC606,9570108-030-0554220 V AC508,0575108-030-0569230 V AC507,9575108-030-055812 V DC-6,2685108-030-056324 V DC-6,8685108-030-056348 V AC509,9690	108-030-0561	24 V DC	-	4,5	5	60
108-030-0556       110 V AC       50       7,6       5       70         108-030-0556       120 V AC       60       6,9       5       70         108-030-0554       220 V AC       50       8,0       5       75         108-030-0559       230 V AC       50       7,9       5       75         108-030-0558       12 V DC       -       6,2       6       85         108-030-0553       24 V DC       -       6,8       6       85         108-030-0563       48 V AC       50       9,9       6       90	108-030-0554	110 V DC	-	6,0	5	75
108-030-0556       120 V AC       60       6,9       5       70         108-030-0554       220 V AC       50       8,0       5       75         108-030-0569       230 V AC       50       7,9       5       75         108-030-0558       12 V DC       -       6,2       6       85         108-030-0563       24 V DC       -       6,8       6       85         108-030-0563       48 V AC       50       9,9       6       90	108-030-0569	110 V DC	-	5,3	5	75
108-030-0554         220 V AC         50         8,0         5         75           108-030-0569         230 V AC         50         7,9         5         75           108-030-0558         12 V DC         -         6,2         6         85           108-030-0563         24 V DC         -         6,8         6         85           108-030-0563         48 V AC         50         9,9         6         90	108-030-0556	110 V AC	50	7,6	5	70
108-030-0569       230 V AC       50       7,9       5       75         108-030-0558       12 V DC       -       6,2       6       85         108-030-0563       24 V DC       -       6,8       6       85         108-030-0563       48 V AC       50       9,9       6       90	108-030-0556	120 V AC	60	6,9	5	70
108-030-0558       12 V DC       -       6,2       6       85         108-030-0563       24 V DC       -       6,8       6       85         108-030-0563       24 V DC       -       6,8       6       85         108-030-0563       48 V AC       50       9,9       6       90	108-030-0554	220 V AC	50	8,0	5	75
108-030-0563       24 V DC       -       6,8       6       85         108-030-0563       48 V AC       50       9,9       6       90	108-030-0569	230 V AC	50	7,9	5	75
108-030-0563 48 V AC 50 9,9 6 90	108-030-0558	12 V DC	-	6,2	6	85
	108-030-0563	24 V DC	-	6,8	6	85
108-030-0562 110 V DC - 6,5 6 90	108-030-0563	48 V AC	50	9,9	6	90
	108-030-0562	110 V DC	-	6,5	6	90
108-030-0565 110 V AC 50 10,5 6 90	108-030-0565	110 V AC	50	10,5	6	90
108-030-0565 120 V AC 60 9,9 6 90	108-030-0565	120 V AC	60	9,9	6	90
108-030-0562 220 V AC 50 10,5 6 90	108-030-0562	220 V AC	50	10,5	6	90
108-030-0568 230 V AC 50 10,5 6 90	108-030-0568	230 V AC	50	10,5	6	90
108-030-0568 230 V AC 60 7,6 6 90	108-030-0568	230 V AC	60	7,6	6	90

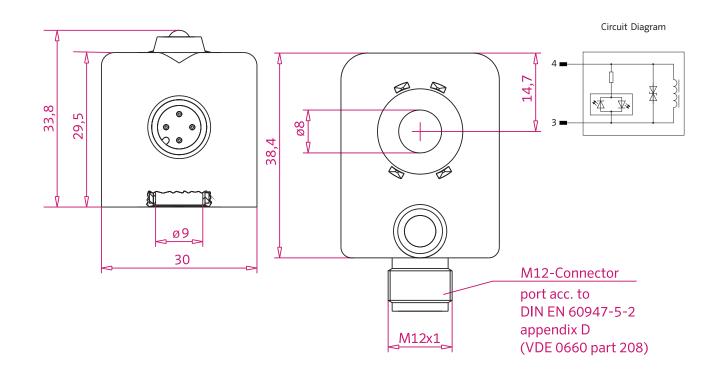
 $\Delta \vartheta_{^{32}}[K]$ : steady-state over-temperature according to VDE 0580

Width: Connection type: Moulding material: 30 mm M 12 metal thread thermoset resin

### **General Data**

Voltage tolerance	····· ± 10 %
Ambient temperature	20 °C to + 50 °C
Relative duty cycle	100 %
Insulation class of insulating materials	
according to DIN VDE 0580	F
Degree of protection with connector	······ IP 65 (IP 67 on request)
Imprint	nass magnet (customer imprint possible)
Protection class	





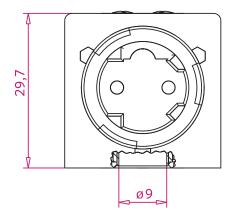
Part No.	Voltage	Rated Power [W]	Power Level	∆θ₃₂[K]	LED	Contact 2-pole
108-030-0181	24 V DC	2,7	4	35	yellow	x
108-030-0182	24 V DC	4,5	5	60	yellow	x

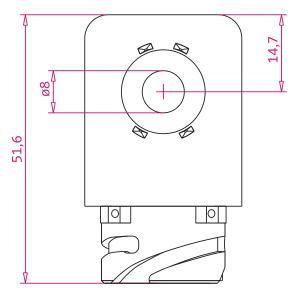
Width: Connection type: Moulding material: 30 mm bayonet (connector DIN 72585) thermoplastic

### **General Data**

Voltage tolerance Ambient temperature	
·	(+ 80 °C on request)
Relative duty cycle	100 %
Degree of protection with connector	
according to EN 60529 ·····	IP 6K 9K
Imprint	
Protection class	[]]







Part No.	Voltage	Rated Power [W]	Power Level	∆ <del>9</del> ₃₂[K]
108-030-0256	24 V DC	4,5	5	60

### SPECIAL REMARKS

Note: The proportions of the solenoid coils displayed in the images on this page do not represent the actual proportions.

The technical data are valid for the indicated standard voltages. Other voltages are available on request.

Perfect function of these solenoid coils with the pertinent components included in this catalogue is assured with the winding having reached its operating temperature (max. ambient temperature and max. voltage tolerance). The steady-state over-temperature is reached in case of valve bodies of plastic and coil encapsulation made of Thermoplastic. All valves are designed in compliance with DIN VDE 0580. Arrangement of the valves in modular design is possible, however, it may ensue a higher temperature increased by up to 20 K and may limit the function. A general lifetime of the products cannot be specified, as it is decisively influenced by ambient conditions, the single application and combination with other components. The function can only be fulfilled in case of exclusive use of *nass magnet* products.

Should there be deviating or additional operating conditions compared to the abovementioned conditions, special testing is necessary in order to verify the usability of the *nass magnet* products.

nass magnet will be glad to give you the required advice.



Width: 22 mm Connection type: industry form Moulding material: thermoset resin and thermoplastic



Width: 22 mm Connection type: form B Moulding material: thermoset resin and thermoplastic



Width: 22 mm Connection type: flying leads Moulding material: thermoplastic



Width: 22 mm Connection type: M 12 metal thread Moulding material: thermoset resin



Width: 30 mm Connection type: form A Moulding material: thermoset resin and thermoplastic



Width: 30 mm Connection type: M 12 metal thread Moulding material: thermoset resin



Width: 30 mm Connection type: bayonet Moulding material: thermoplastic

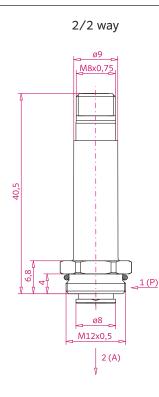


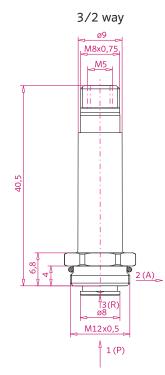
### ARMATURE ASSEMBLY GW (THREAD)

Switching function: De-energized state: Connection type: 2/2 and 3/2 way NC (normally closed) thread M 12 x 0,5

#### **General Data**

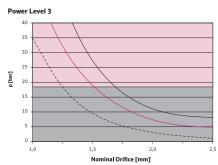




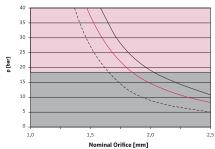


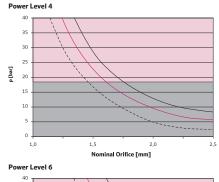
Part No.	Function	Power Level	Nominal inlet	Orifice [mm] exhaust	Pressure [bar]	Appropriate	e <b>for</b> brass	Armature Guide stainless steel
108-010-0082	3/2 way NC	1	0,6	0,8	10	DC	х	
108-010-0085	3/2 way NC	1	0,8	1,0	8	DC	х	
108-010-0027	3/2 way NC	2	0,8	1,0	10	DC AC	х	
108-010-0017	3/2 way NC	3	1,0	1,3	10	DC AC	х	
108-010-0053	3/2 way NC	3	1,0	1,3	10	DC AC		х
108-010-0005	2/2 way NC	3, 4, 5, 6	see below	/		DC AC	х	
108-010-0014	2/2 way NC	3, 4, 5, 6	see below	/		DC AC		х
108-010-0016	3/2 way NC	4	1,3	1,5	10	DC AC	х	
108-010-0002	3/2 way NC	5	1,5	1,7	10	DC AC	х	
108-010-0045	3/2 way NC	5	1,5	1,7	10	DC AC		х
108-010-0004	3/2 way NC	6	1,7	1,7	10	DC AC	х	

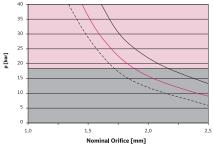
Power Levels for 2/2 Way Versions \_\_\_\_\_ AC - 50 Hz \_\_\_\_\_ AC - 60 Hz \_ \_ \_ DC - 5 % residual ripple max. test pressure: 18 bar · special versions on request











1(P)

### ARMATURE ASSEMBLY FL

Switching function: De-energized state:

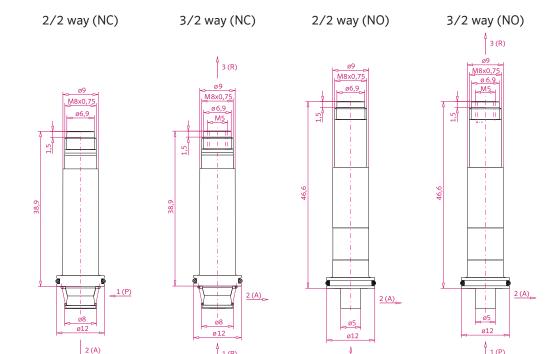
Connection type:

#### **General Data**

Quality of medium according to ISO 8573-1 ..... compressed air class 4, 3, 4 Mounting position ......any (preferably plunger in vertical direction)

1(P)





1 (P)

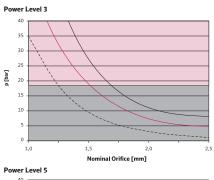
2/2 and 3/2 way

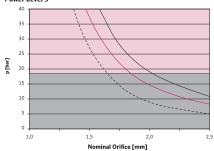
flange

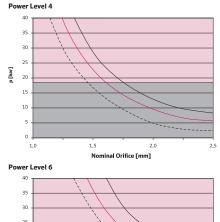
NC (normally closed), NO (normally open)

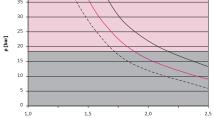
Part No.	Function	Power Level	Nominal ( inlet	<b>Drifice</b> [mm] exhaust	Pressure [bar]	Appro	opriate for	Armatur brass	e Guide stainless steel
108-010-0081	3/2 way NC	1	0,6	0,8	10	DC		х	
108-010-0084	3/2 way NC	1	0,8	1,0	8	DC		х	
108-010-0100	3/2 way NC	1	0,6	0,8	10	DC			Х
108-010-0026	3/2 way NC	2	0,8	1,0	10	DC	AC	х	
108-010-0007	3/2 way NC	3	1,0	1,3	10	DC	AC		Х
108-010-0010	3/2 way NC	3	1,0	1,3	10	DC	AC	х	
108-010-0006	2/2 way NC	3, 4, 5, 6	see below	1		DC	AC	Х	
108-010-0088	2/2 way NC	3, 4, 5, 6	see below	/		DC			Х
108-010-0009	3/2 way NC	4	1,3	1,5	10	DC	AC	х	
108-010-0049	3/2 way NC	4	1,3	1,5	10	DC	AC		Х
108-010-0172	3/2 way NO	4	1,0	1,3	10	DC		Х	
108-010-0001	3/2 way NC	5	1,5	1,7	10	DC	AC	х	
108-010-0060	3/2 way NC	5	1,5	1,7	10	DC	AC		Х
108-010-0003	3/2 way NC	6	1,7	1,7	10	DC	AC	х	
108-010-0066	3/2 way NC	6	1,7	1,7	10	DC	AC		Х

Power Levels for 2/2 Way Versions \_\_\_\_\_ AC - 50 Hz \_\_\_\_\_ AC - 60 Hz \_ \_ \_ DC - 5 % residual ripple max. test pressure: 18 bar · special versions on request









### VALVE SYSTEM CNOMO

Height: Switching function: De-energized state: Valve body:

**General Data** 

Quality of medium according to ISO 8573-1 ..... compressed air class 4, 3, 4 Mounting position ......any (preferably plunger in vertical direction) Sealing material ..... FPM (other sealing materials on request)

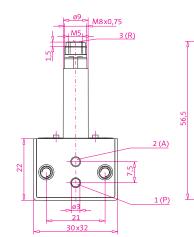
22 mm

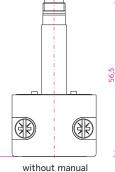
plastics

2/2 and 3/2 way

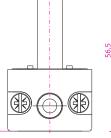
NC (normally closed), NO (normally open)







override, NC

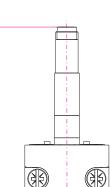


monostable manual override, NC

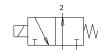








without manual override, NO



1 3 without manual override, NO



1 3 without manual override, NC

monostable

NC

1 3

manual override,

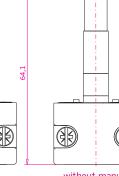
0 1

bistable

manual override,

NC





Part No.	Power Level	<b>Nomina</b> l inlet	<b>Orifice</b> [mm] exhaust	<b>Pressure</b> [bar]	Flow Ra	<b>te*</b> [l/min] 2-3	<b>Manual C</b> bistable	<b>verride</b> monostable	Approp	riate for
108-050-0190	1	0,8	1,0	8	20	30	х		DC	
108-050-0194	1	0,6	0,7	10	12	22	х		DC	
108-050-0202	1	0,8	1,0	8	20	30			DC	
108-050-0207	1	0,8	1,0	8	20	30		х	DC	
108-050-0243	2	0,8	1,0	10	20	30	х		DC	AC
108-050-0109	3	1,0	1,3	10	35	60	х		DC	AC
108-050-0110	3	1,0	1,3	10	35	60			DC	AC
108-050-0126	3	1,0	1,3	10	35	60		х	DC	AC
108-050-0111	4	1,3	1,5	10	50	75	х		DC	AC
108-050-0114	4	1,3	1,5	10	50	75			DC	AC
108-050-0127	4	1,3	1,5	10	50	75		х	DC	AC
108-050-0122	5	1,5	1,7	10	65	90	х		DC	AC
108-050-0124	5	1,5	1,7	10	65	90			DC	AC
108-050-0130	5	1,5	1,7	10	65	90		х	DC	AC
108-050-0116	6	1,3	1,5	16	50	75	х		DC	AC
108-050-0118	6	1,3	1,5	16	50	75			DC	AC
108-050-0125	6	1,7	1,7	10	80	90			DC	AC
108-050-0160	6	1,7	1,7	10	80	90		х	DC	AC
108-050-0137	6	1,3	1,5	16	50	75		х	DC	AC

\* qv flow rate at an inlet pressure of 6 bar (X = 1 bar) and 0  $^{\circ}$ C; flow rate detection in compliance with ISO 6358 **Note:** Bistable manual override is a combination of the pushing/resetting function and the rotating/latching function.

### VALVE SYSTEM CNOMO

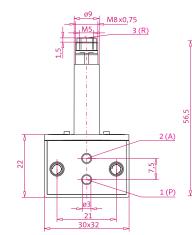
Height: Switching function: De-energized state: Valve body:

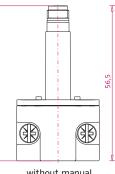
#### **General Data**

22 mm

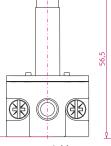
aluminium, coated







without manual override, NC



3/2 way, 2/2 way possible with accessoires

NC (normally closed), NO (normally open)

monostable manual override, NC

### Pneumatic Diagram

Æ

NC

bistable

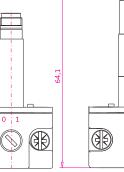
manual override,

NC

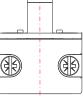
1 3



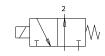
1 3 monostable manual override, NC



bistable manual override,



without manual override, NO



1 3 without manual override, NO



1 3 without manual override, NC

Part No.	Power Level	<b>Nomi</b> i inlet	nal Orifice [mm] exhaust	<b>Pressure</b> [bar]	Flow Ra 1-2	n <b>te*</b> [l/min] 2-3	<b>Manual</b> bistable	<b>Override</b> monostable	Appropri	iate for
108-050-0189	1	0,8	1,0	8	20	30	х		DC	
108-050-0201	1	0,8	1,0	8	20	30		х	DC	
108-050-0002	3	1,0	1,3	10	35	60	х		DC	AC
108-050-0242	3	1,0	1,3	10	35	60			DC	AC
108-050-0003	4	1,3	1,5	10	50	75	х		DC	AC
108-050-0023	4	1,3	1,5	10	50	75		х	DC	AC
108-050-0004	5	1,5	1,7	10	65	90	х		DC	AC
108-050-0005	5	1,5	1,7	10	65	90			DC	AC
108-050-0007	5	1,5	1,7	10	65	90		х	DC	AC
108-050-0135	5	1,0	1,3	16	35	60		х	DC	AC
108-050-0006	6	1,7	1,7	10	84	94			DC	AC
108-050-0035	6	1,7	1,7	10	84	94		х	DC	AC
108-050-0037	6	1,3	1,5	16	50	75		x	DC	AC

\* qv flow rate at an inlet pressure of 6 bar (X = 1 bar) and 0  $^{\circ}$ C; flow rate detection in compliance with ISO 6358 **Note:** Bistable manual override is a combination of the pushing/resetting function and the rotating/latching function.

### VALVE SYSTEM CNOMO

Height: Switching function: De-energized state: Valve body:

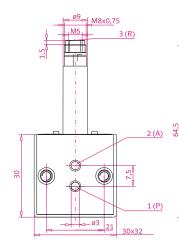
**General Data** 

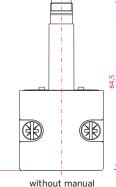
30 mm

plastics

NC (normally closed)





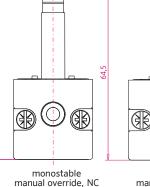


override, NC

1 3

without manual

override, NC

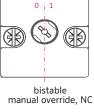


Pneumatic Diagram



3/2 way, 2/2 way possible with accessoires

1 3 monostable manual override, NC





1 3 bistable manual override, NC

Part No.	Power Level	<b>Nomin</b> inlet	al Orifice [mm] exhaust	<b>Pressure</b> [bar]	Flow Rat 1-2	<b>e</b> * [l/min] 2-3	<b>Manual Override</b> bistable monostable	Appropria	ate for
108-050-0169	3	1,0	1,3	10	35	60	х	DC	AC

\* qv flow rate at an inlet pressure of 6 bar (X = 1 bar) and 0 °C; flow rate detection in compliance with ISO 6358

#### Notes:

- Switching function 3/2 way NO (normally open) on request

<sup>-</sup> Bistable manual override is a combination of the pushing/resetting function and the rotating/latching function.

# VALVE SYSTEM KR

Switching function: De-energized state: Gasket of the pneumatic interface:

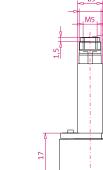
M8x0,75

3 (R)

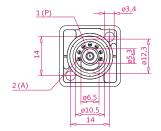
3/2 way NC (normally closed), NO (normally open) concentric O'rings (KR) sealing material FPM plastics

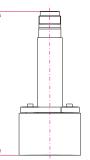
Valve body:

#### **General Data**







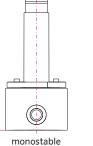


51,5

without manual override, NC



1 3 without manual override, NC



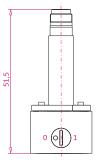
51,5

monostable manual override, NC

### Pneumatic Diagram



1 3 monostable manual override, NC



bistable manual override, NC



1 3 bistable manual override, NC



29,1

without manual override, NO



without manual override, NO

Part No.	Power Level	Nominal inlet	<b>Orifice</b> [mm] exhaust	<b>Pressure</b> [bar]	<b>Flow R</b> 1-2	t <b>ate*</b> [l/min] 2-3	<b>Manual O</b> bistable	Manual Override bistable monostable		Appropriate for	
108-050-0188	1	0,8	1,0	8	20	30			DC		
108-050-0196	1	0,6	0,8	10	12	22	х		DC		
108-050-0208	1	0,8	1,0	8	20	30	х		DC		
108-050-0008	3	1,0	1,3	10	35	54	х		DC	AC	
108-050-0013	3	1,0	1,3	10	35	54			DC	AC	
108-050-0078	3	1,0	1,3	10	35	54		х	DC	AC	
108-050-0009	4	1,3	1,5	10	55	70	х		DC	AC	
108-050-0014	4	1,3	1,5	10	55	70			DC	AC	
108-050-0072	4	1,3	1,5	10	55	70		х	DC	AC	
108-050-0012	5	1,5	1,7	10	65	80	х		DC	AC	
108-050-0015	5	1,5	1,7	10	65	80			DC	AC	
108-050-0063	5	1,5	1,7	10	65	80		х	DC	AC	

\* qv flow rate at an inlet pressure of 6 bar (X = 1 bar) and 0  $^{\circ}$ C; flow rate detection in compliance with ISO 6358

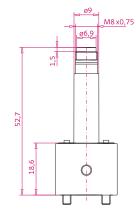
### VALVE SYSTEM GKR

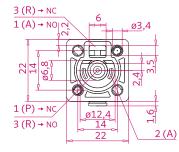
Switching function: De-energized state: Gasket of the pneumatic interface: 3/2 way NC (normally closed), NO (normally open) internal exhaust sealing material FPM plastics

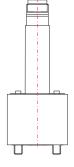
Valve body:

#### **General Data**





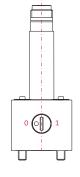




without manual override, NC







bistable manual override, NC

Pneumatic Diagram



1 3 bistable manual override, NC



without manual override, NO

Part No.	Power Level	Nominal ( inlet	<b>Drifice</b> [mm] exhaust	<b>Pressure</b> [bar]	Flow R 1-2	a <b>te</b> * [l/min] 2-3	<b>Manual Override</b> bistable monostable		priate for
108-050-0099	3	1,0	1,3	10	26	42	х	DC	AC
108-050-0081	4	1,3	1,5	10	48	56	х	DC	AC

\* qv flow rate at an inlet pressure of 6 bar (X = 1 bar) and 0  $^{\circ}$ C; flow rate detection in compliance with ISO 6358

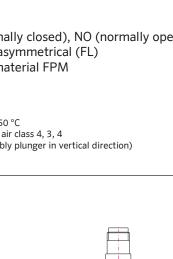
# VALVE SYSTEM FL

Switching function: De-energized state: Gasket of the pneumatic interface: 3/2 way NC (normally closed), NO (normally open) O'rings, asymmetrical (FL) sealing material FPM plastics

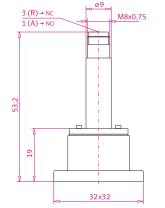
Valve body:

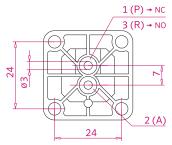
#### **General Data**

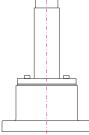
Ambient temperature ...... - 10 °C to + 50 °C Quality of medium according to ISO 8573-1 ..... compressed air class 4, 3, 4 Mounting position ......any (preferably plunger in vertical direction)







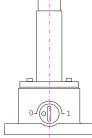




without manual override, NC



1 3 without manual override, NC



bistable manual override, NC

Pneumatic Diagram

1 3 bistable manual override, NC



without manual override, NO

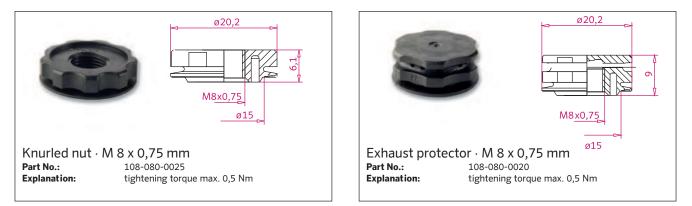
Part No.	Power Level	Nominal O inlet	<b>rifice</b> [mm] exhaust	<b>Pressure</b> [bar]	<b>Flow R</b> 1-2	<b>ate*</b> [l/min] 2-3	Manual Override bistable without	Approp	riate for
108-050-0044	3	1,0	1,3	10	25	58	х	DC	AC
108-050-0045	4	1,3	1,5	10	52	80	х	DC	AC
108-050-0046	5	1,5	1,7	10	64	88	х	DC	AC
108-050-0047	5	1,5	1,7	10	64	88	х	DC	AC

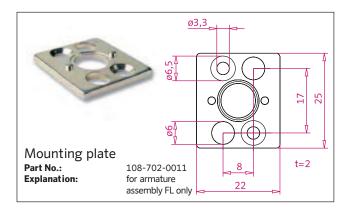
\* qv flow rate at an inlet pressure of 6 bar (X = 1 bar) and 0 °C; flow rate detection in compliance with ISO 6358



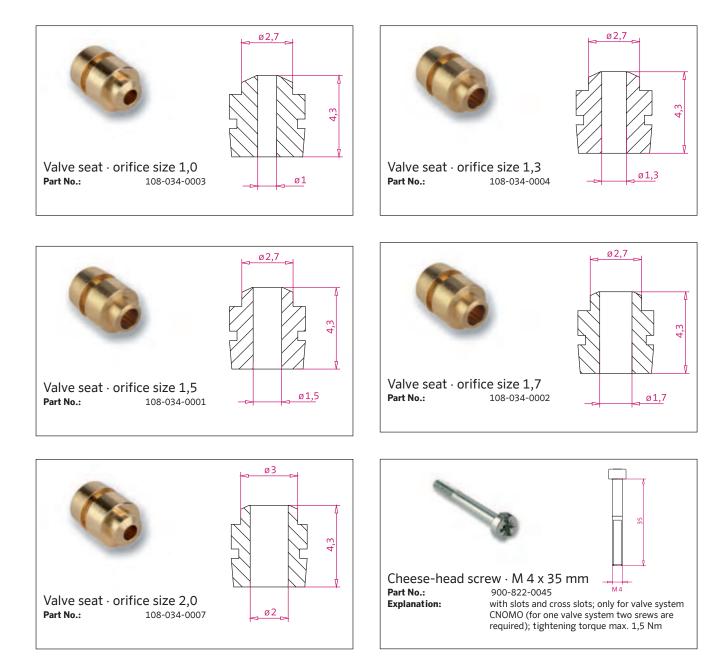


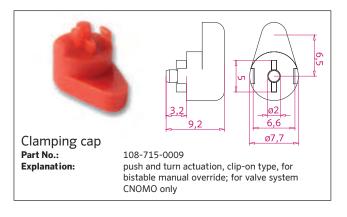


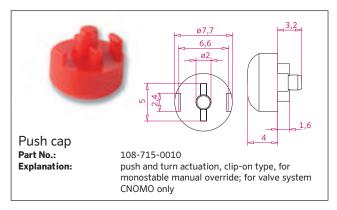


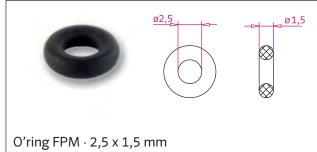












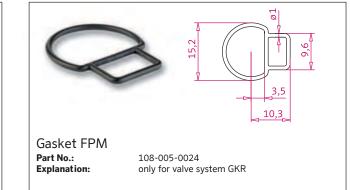
 O'ring FPM • 2,5 x 1,5 mm

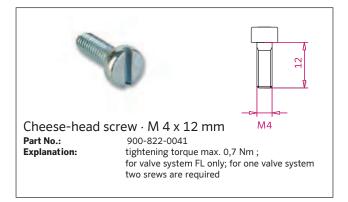
 Part No.:
 900-841-0065

 Explanation:
 only for valve systems KR and GKR







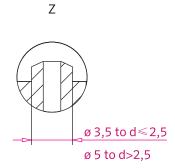








### PNEUMATIC CONNECTION SOLENOID OPERATOR



	>	<			
d	<sup>1</sup> ∠ 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1	2 2 1 3			
0,6	5,00	5,20			
0,8	5,05	5,25			
1,0	5,10	5,30			
1,3	5,15	5,30			
1,5	5,20	5,30			
1,7	5,25	5,30			
2,0	5,30	-			
2,5	5,40	-			
3,0	5,50	-			
3,5	5,60	_			

### Note:

Specifications regarding the characteristic of the customer interface are available at *nass magnet* on request.

