

**4/2 directional control valves  
Solenoid operated  
indirectly actuated seat valves  
Port size G 1/8, G 1/4**

- LABS-free
- Standard manual override with detend
- Compact design
- High flow rate
- Maintenance-free
- Easily mounting: as single unit or manifold system
- Common exhaust line
- Low power consumption  $\leq 2\text{ W}$  and  $5\text{ W}$



### Technical data

Operating medium:  
Solenoid valve for filtered, lubricated<sup>1)</sup> or non-lubricated air

Actuation:  
Solenoid operated

Flow direction:  
Fixed

Mounting position:  
Optional

Nominal size:  
4 and 7 mm

Port size:  
G 1/8, G 1/4

Electrical connection:  
Connector interface to DIN 43650 Form A and B

Operating pressure:  
Max. 10 bar

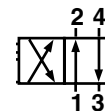
Temperature range:  
-10\* to +60 °C  
\* With minus temperatures, use conditioned dry air. If installed in the open protect all connections against the penetration of moisture!

Material:

Housing:	Aluminium
Pilot flange :	plastic (PBT)
Seals:	NBR (Perbunan)

### Ordering example

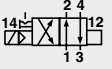
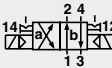
4/2 directional control valve, port size G 1/4, actuating magnet 24 V DC, with connector DIN 43650 form B, protection class IP 65  
Type **2622000.3053.024.00**

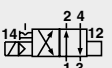
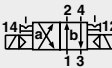


<sup>1)</sup> Oil recommendation: Shell Hydrol DO 32, Esso Febis (as of July 1992) or comparable oils with DVI values < 8 (DIN 53521) and ISO viscosity class 32-46 (DIN 51519).




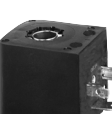

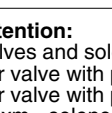

**General information**

Symbol	Type Valve . Solenoid	Port size	Nominal size	Operating pressure (bar)		Flow l/min	Switching time (ms)		Manual over. with/without detend	Current draw (W)	Weight (kg)	Dim. drawing No.
				Min.	Max.		On	Off				
	2622000. * 1)	G 1/8	4	1,5	10	700	20	20	with	<5	0,30	M01
	2622200. *	G 1/4	7	1,5	10	1400	24	27	with	<5	0,39	M01
	2622100. * 1)	G 1/8	4	1,5	10	700	11	12	with	<5	0,40	M02
	2622300. *	G 1/4	7	1,5	10	1400	24	27	with	<5	0,62	M02

Symbol	Type Valve . Solenoid	Port size	Nominal size	Operating pressure (bar)		Flow l/min	Switching time (ms)		Manual over. with/without detend	Current draw (W)	Weight (kg)	Dim. drawing No.
				Min.	Max.		On	Off				
	2622001. * 1)	G 1/8	4	2	8	700	19	62	with	<2	0,30	M01
	2622201. *	G 1/4	7	2	8	1400	23	75	with	<2	0,39	M01
	2622101. * 1)	G 1/8	4	2	8	700	13	14	with	<2	0,40	M02
	2622301. *	G 1/4	7	2	8	1400	24	27	with	<2	0,62	M02

\* When ordering please indicate solenoid, voltage and current type (frequency).



**Parameters for solenoids**

Image	Type	Current draw		Degree	Temperatures		Weight (kg)	Dimensional drawing No.	Picture Nr.
		24V DC (W)	230V AC (VA)		Fluid max. (°C)	Ambience (°C)			
	3052	4,8	8,5	IP 00 without connector	+50	-10 to +50	0,054	M03	SB01
	3050	1,7	4,3						
	3053	4,8	8,5	IP 65 with connect. DIN 43650 Form B	+50	-10 to +50	0,074	M03	SB01
	3051	1,7	4,3						
	3030	4,5	8,0	IP 00 without connector	+50	-10 to +50	0,090	M04	SB01
	3036	1,6	3,5						
	3031	4,5	8,0	IP 65 with connect. DIN 43650 Form A	+50	-10 to +50	0,120	M04	SB01
	3037	1,6	3,5						
	3042	3,3	-	EEx m II T6 with cable 3 m	+80	-10 to +50	0,130	M05	SB01
	3043	-	3,3						

**Attention:**

Valves and solenoids can only be combined if their electric characteristics correspond with each other (see parameters General Informations).  
 For valve with power consumption < 5 watt please use 4,8 or 4,5 watt solenoids.  
 For valve with power consumption < 2 watt please use 1,7 or 1,6 watt solenoids.  
 EExm - solenoids 3,3 watt please use valves with power consumption < 5 watt.

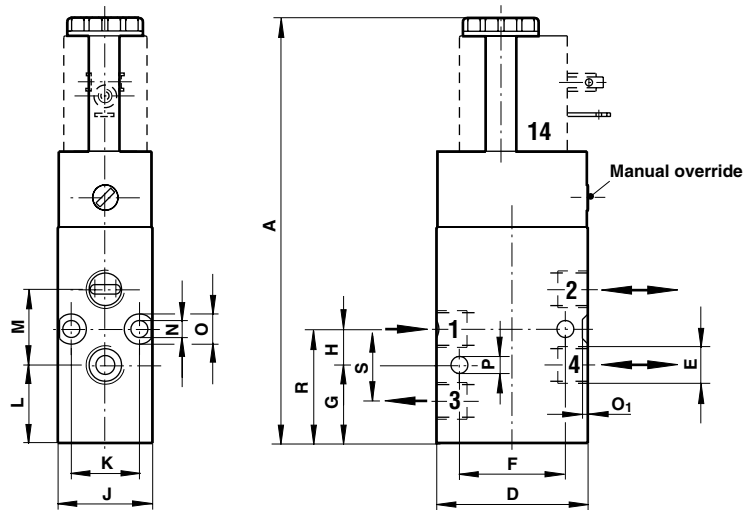
**Connectors for solenoids of protection class IP 65**

Image	Type	Designation	Operating temperature (°C)	Operating voltage (V)
	0570275 black	Connector acc. to DIN 43650, Form A without cable, without LED	-40 to 125	12 to 250 DC/AC
	0657859 grey			
	0680003 black	Connector acc. to DIN 43650, Form B without cable, without LED	-40 to 125	12 to 250 DC/AC



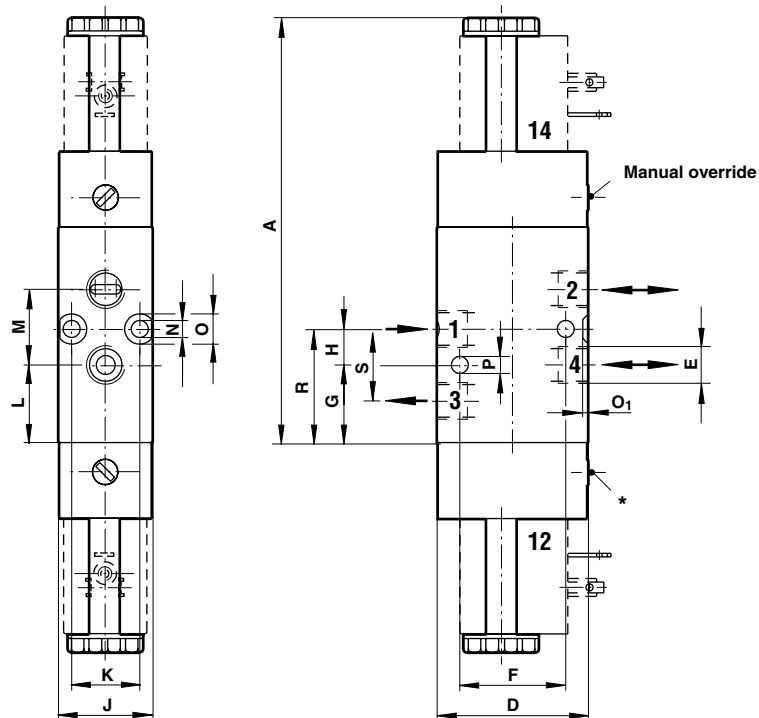
### Dimensional drawing

#### M01



Type	A	D	E	F	G	H	J	K	L	M	N	O	O1	P	R	S
26220XX	112,3	40	G 1/8	28	20,5	9,5	25	18	20,5	20	4,5	8	2	4,5	30	19
26222XX	127,3	55	G 1/4	32	28,5	12	30	23	28,5	24	4,5	-	-	5,5	40,5	29

#### M02

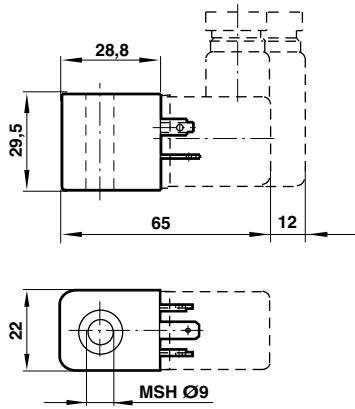


Type	A	D	E	F	G	H	J	K	L	M	N	O	O1	P	R	S
26221XX	172	40	G 1/8	28	25	9,5	25	18	25	20	4,5	8	2	4,5	34,5	19
26223XX	191	55	G 1/4	32	36	12	30	23	36	24	4,5	-	-	5,5	48	29

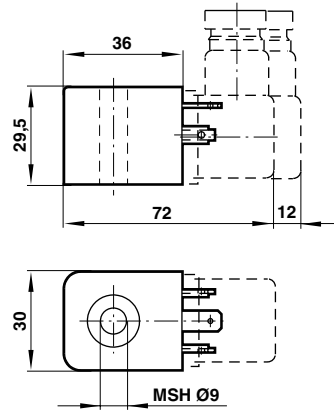


### Dimensional drawings solenoids

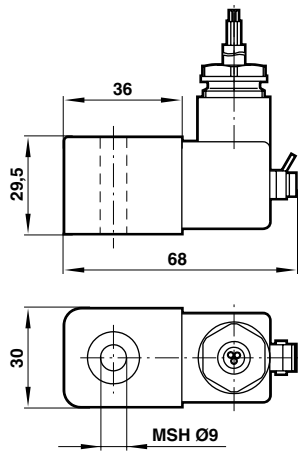
M03



M04

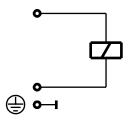


M05

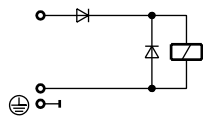


### Electrical circuit diagrams

SB01



SB08

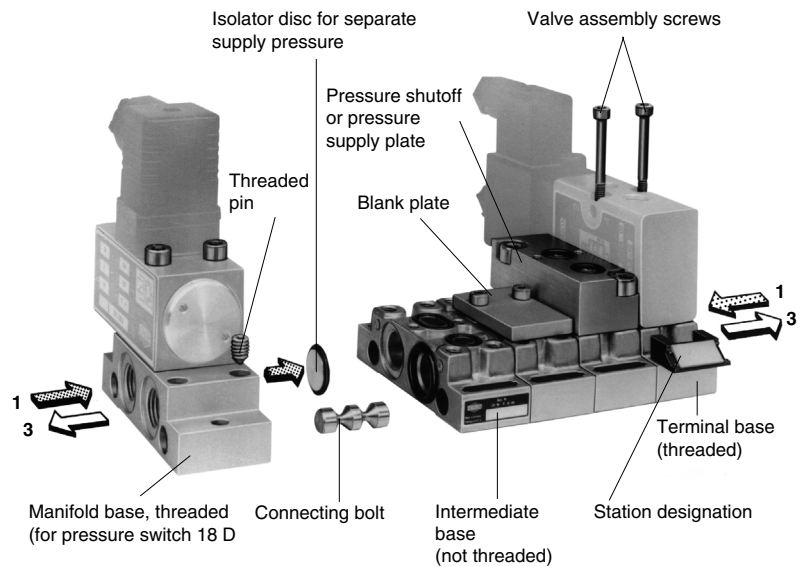




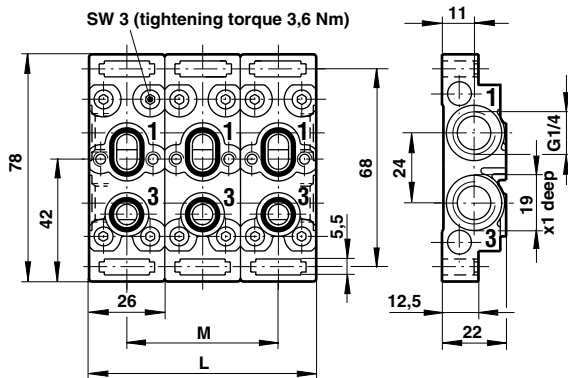
## Manifold systems

### Manifold system without valves

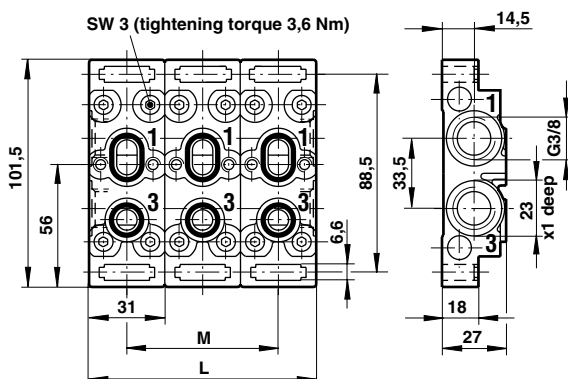
Description	Nom. size 4		Nom. size 7	
	Weight (kg)	Type	Weight (kg)	Type
Terminal base (threaded)	0,10	<b>0559984</b>	0,16	<b>0559986</b>
Interm. base assly. (not threaded)	0,10	<b>0559985</b>	0,16	<b>0559987</b>
Manifold base assly. (for pressure switch 18 D)	0,10	<b>0540937</b>	0,18	<b>0540909</b>
Pressure shutoff plate assly. (for valve mounting under pressure)	0,08	<b>0541502</b>	0,16	<b>0541461</b>
Pressure supply plate assly. (for separate air supply)	0,08	<b>0541505</b>	0,16	<b>0542940</b>
Manifold system				
for 2 Valve	0,18	<b>2629202</b>	0,32	<b>2629402</b>
for 3 Valve	0,28	<b>2629203</b>	0,49	<b>2629403</b>
for 4 Valve	0,37	<b>2629204</b>	0,65	<b>2629404</b>
for 5 Valve	0,47	<b>2629205</b>	0,82	<b>2629405</b>
for 6 Valve	0,56	<b>2629206</b>	0,98	<b>2629406</b>
for 7 Valve	0,66	<b>2629207</b>	1,15	<b>2629407</b>
for 8 Valve	0,75	<b>2629208</b>	1,32	<b>2629408</b>
for 9 Valve	0,85	<b>2629209</b>	1,48	<b>2629409</b>
for 10 Valve	0,94	<b>2629210</b>	1,65	<b>2629410</b>
for 11 Valve	1,04	<b>2629211</b>	1,81	<b>2629411</b>
for 12 Valve	1,13	<b>2629212</b>	1,98	<b>2629412</b>
Blank plate assly.	0,01	<b>0540038</b>	0,02	<b>0540527</b>
Screw plug	0,01	<b>0565449</b>	0,02	<b>0701192</b>
Sealing ring for screw plug	-	<b>0660835</b>	-	<b>0700835</b>
Isolator disc (for separate supply pressure)	-	<b>0540594</b>	-	<b>0540526</b>
Station marking:				
Support	-	<b>0542054</b>	-	<b>0542054</b>
Label (10 pcs)	-	<b>0543028</b>	-	<b>0680710</b>



### Dimensional drawings



Type	No. of valves	L	M
0559984	1	26	-
0559985	1	26	-
2629202	2	52	26
2629203	3	78	52
2629204	4	104	78
2629205	5	130	104
2629206	6	156	130
2629207	7	182	156
2629208	8	208	182
2629209	9	234	208
2629210	10	260	234
2629211	11	286	260
2629212	12	312	286

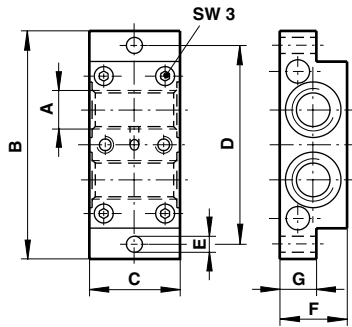


Type	No. of valves	L	M
0559986	1	31	-
0559987	1	31	-
2629402	2	62	31
2629403	3	93	62
2629404	4	124	93
2629405	5	155	124
2629406	6	186	155
2629407	7	217	186
2629408	8	248	217
2629409	9	279	248
2629410	10	310	279
2629411	11	341	310
2629412	12	372	341



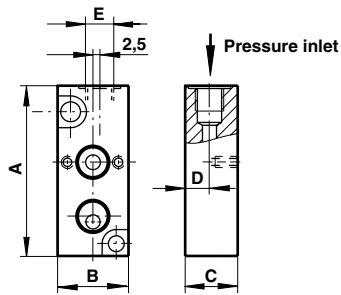
## Dimensional drawings

Base for pressure switch 18 D



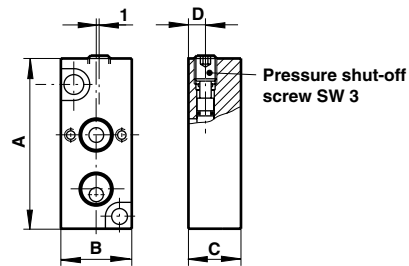
Type	A	B	C	D	E	F	G
0540937	G1/4	78	31	68	5,5	23	12,5
0540909	G3/8	101	31	88	7	28	18

Pressure supply plate, size 4 and size 7



Type	NG	A	B	C	D	E
0541505	4	60	25	18,5	8,5	G1/8
0542940	7	77,5	30	24	12	G1/4

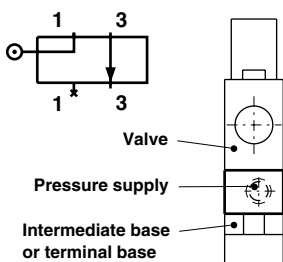
Pressure shut-off plate, size 4 and size 7



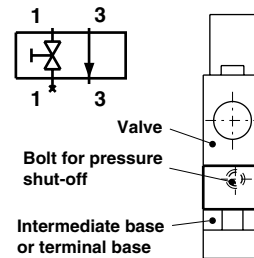
Type	NG	A	B	C	D
0541502	4	60	25	18,5	6
0541461	7	77,5	30	24	12

## Mounting instructions

Pressure supply plate



Pressure shut-off plate

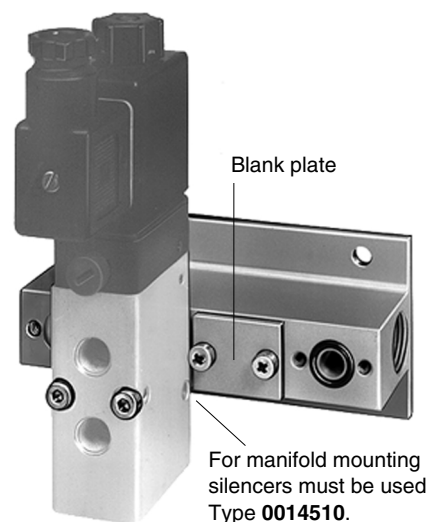




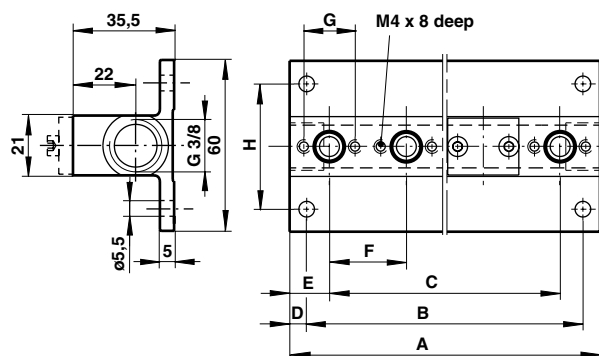
## Manifold system

### Manifold bars without valves

Description	Nom. size 4		Nom. size 7	
	Weight (kg)	Type	Weight (kg)	Type
Manifold bar for 2 Valves	0,10	<b>2629302</b>	0,11	<b>2629502</b>
for 3 Valves	0,15	<b>2629303</b>	0,17	<b>2629503</b>
for 4 Valves	0,20	<b>2629304</b>	0,23	<b>2629504</b>
for 5 Valves	0,25	<b>2629305</b>	0,28	<b>2629505</b>
for 6 Valves	0,30	<b>2629306</b>	0,34	<b>2629506</b>
for 7 Valves	0,35	<b>2629307</b>	0,40	<b>2629507</b>
for 8 Valves	0,40	<b>2629308</b>	0,46	<b>2629508</b>
Blank plate assly.	–	<b>0541244</b>	–	<b>0541256</b>
Screw plug	–	<b>0701192</b>	–	<b>0701192</b>
Sealing ring for screw plug	–	<b>0662898</b>	–	<b>0662898</b>



### Dimensional drawing



Type Size 4	For valves	A	B	C	D	E	F	G	H
2629302	2	55	43	27	6	14	27	18	44
2629303	3	82	70	54	6	14	27	18	44
2629304	4	109	97	81	6	14	27	18	44
2629305	5	136	124	108	6	14	27	18	44
2629306	6	163	151	135	6	14	27	18	44
2629307	7	190	178	162	6	14	27	18	44
2629308	8	217	205	189	6	14	27	18	44

Type Size 7	For valves	A	B	C	D	E	F	G	H
2629502	2	63	50	31	6,5	16	31	23	50
2629503	3	94	81	62	6,5	16	31	23	50
2629504	4	125	113	93	6	16	31	23	50
2629505	5	156	145	124	5,5	16	31	23	50
2629506	6	187	177	155	5	16	31	23	50
2629507	7	218	178	186	4,5	16	31	23	50
2629508	8	249	240	217	4,5	16	31	23	50

### Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of

all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

**System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.**

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products where applicable.

