

5/3 Directional Control Valves



Nominal sizes 6 and 12
Solenoid pilot actuated
Spool valve with pressure energized soft seals
G 1/4 or G 1/2 internal thread connection
Operating pressure see parameters

Catalog Register
P11

Publication 7501102.06.03.96



Description

Solenoid valve for filtered lubricated¹⁾ or non-lubricated air

Flow direction: Fixed

Temperature range: -10 to +60°C

Material used:

- Body: Aluminium
- Seals: NBR

Features

- Integrated sound absorption eliminating
- Objectionable air noise
- Straight thru flow paths assuring high flow rates and fast response time
- Simple, compact yet most efficient design thanks to soft seal spool system
- Maintenance-free
- Easy to service
- Uncomplicated and fast replacement of solenoids
- Compact design
- Standard manual override
- No overlap
- Current draw 7 W
- Installation position optional

Parameters

Symbol	Nom. size	Pipe connection	Operating pressure [bar]		k _v -value (C _v (US)= k _v x 1.2)	Switching time [ms]	Weight [kg]	Sectional drawing No.	Dimensional drawing No.	Bestell-Nr.	
			min.	max.						Ventil	Magnet
	6	G 1/4	3	10	0.9	30	1.0	01	01	2636300.0247	
	12	G 1/2	2.5	10	2.2	55	1.6	—	02		
	6	G 1/4	3	10	0.9	30	1.0	02	01	2636404.0247	
	12	G 1/2	2.5	10	2.2	55	1.6	—	02		
	6	G 1/4	3	10	0.9	25	1.0	03	01	2636500.0247	

Manifold systems see Publication 7501074, Reg. 13
Manifold systems see Publication 7501092, Reg. 13

Please state voltage [V]
and frequency [Hz]

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

Solenoids

Standard voltages	DC	AC 50 Hz	Other voltages available on request
	24 V	24 V 110 V 220 V 230 V	

Design to VDE 0580
100 % duty cycle

For more technical data on solenoids see
Publication 7500782.

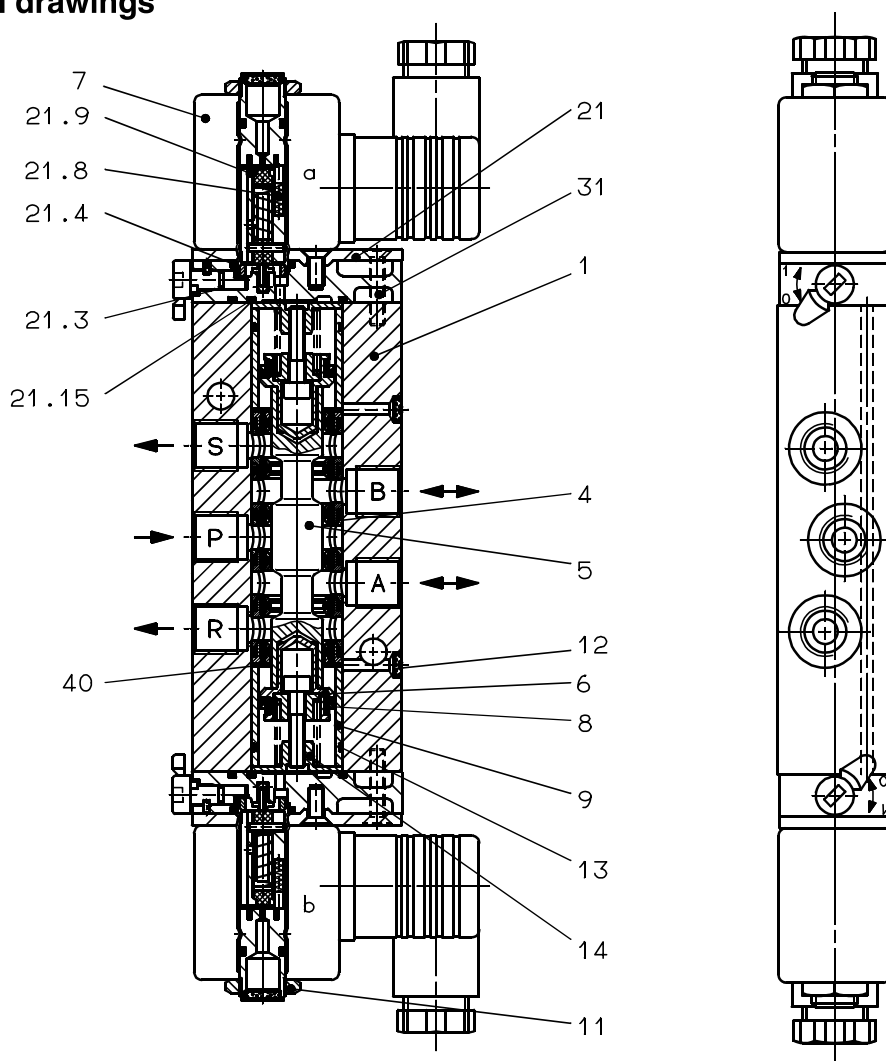
Current draw:

Solenoid	DC	Solenoid AC	Holding
		Inrush	
0247	7 W	0701 18 VA	10 VA

Degree of protection to DIN 40050: IP 65
Connector to DIN 43650

Sectional drawings

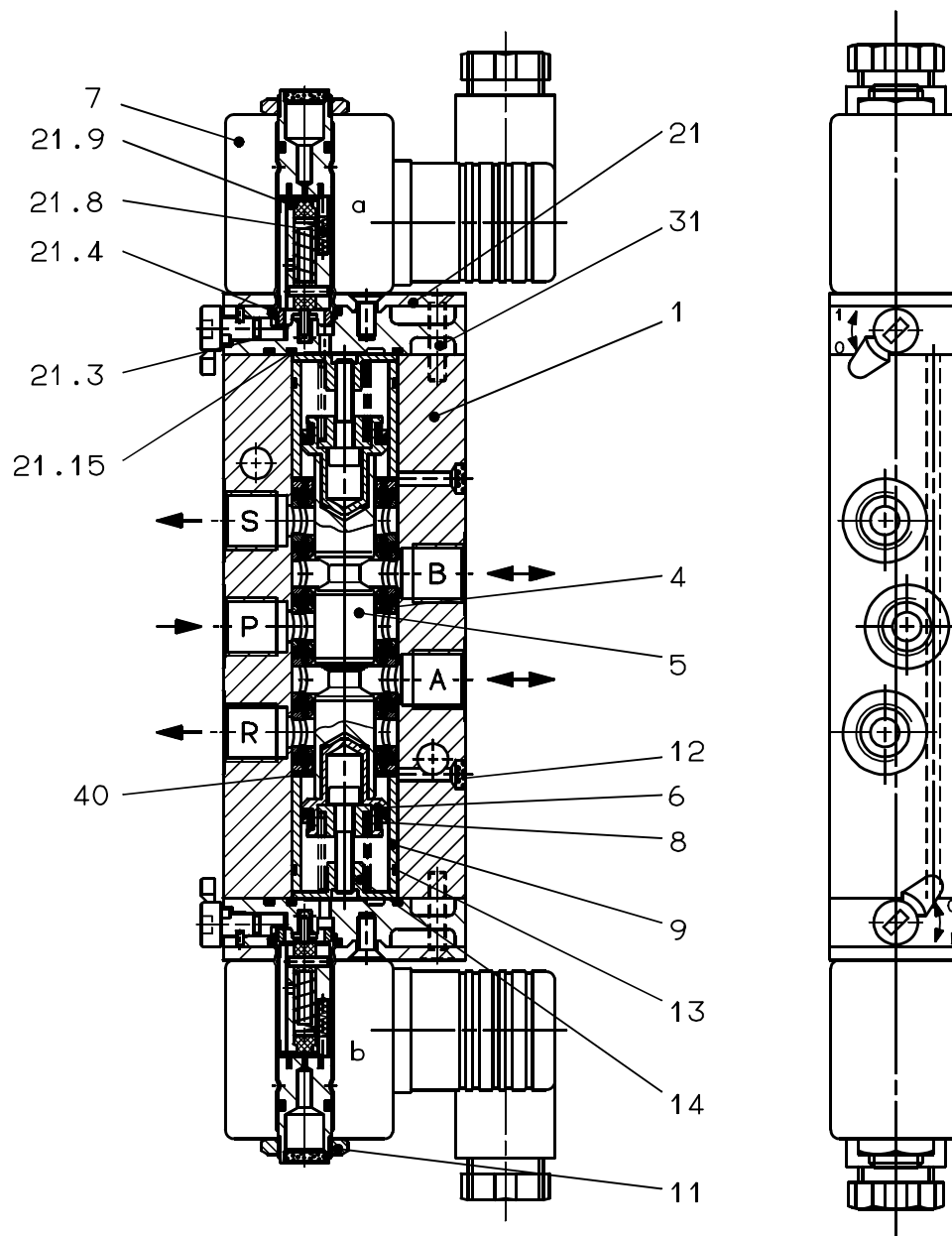
01



- | | | | |
|----|---------------------|-------|------------------------|
| 1 | Body | 14 | Spring actuator assly. |
| 4 | Seal support assly. | 21 | 3/2 pilot valve |
| 5 | Spool | 21.3 | O-ring |
| 6 | Piston | 21.4 | O-ring |
| 7 | Solenoid | 21.8 | Spring assly. |
| 8 | Lip ring | 21.9 | Plunger assly. |
| 9 | Sleeve | 21.15 | Seal |
| 11 | Nut | 31 | Screw |
| 12 | Disk | 40 | Shim |
| 13 | O-ring | | |

Sectional drawings

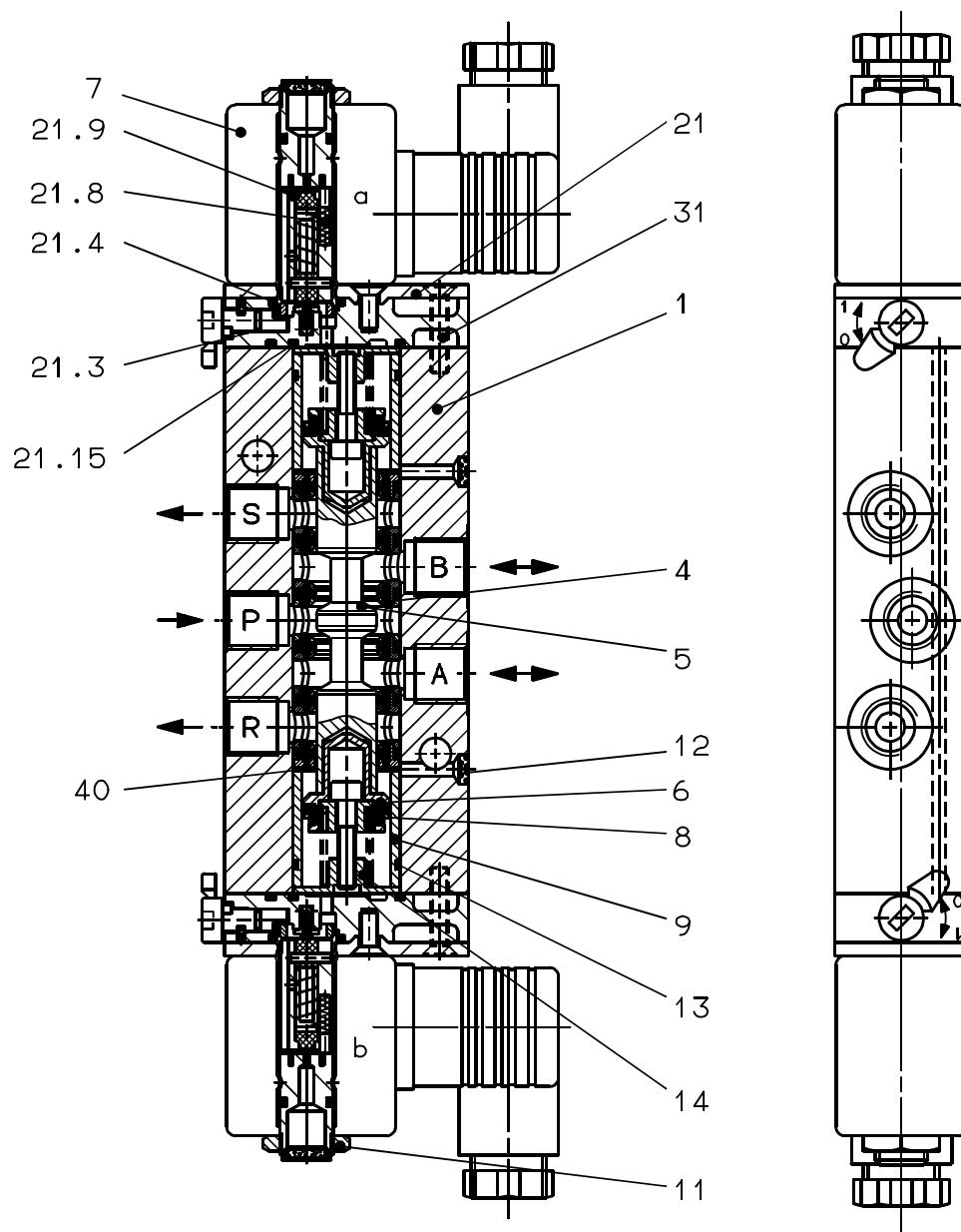
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- | | | | |
|----|---------------------|-------|------------------------|
| 1 | Body | 14 | Spring actuator assly. |
| 4 | Seal support assly. | 21 | 3/2 pilot valve |
| 5 | Spool | 21.3 | O-ring |
| 6 | Piston | 21.4 | O-ring |
| 7 | Solenoid | 21.8 | Spring assly. |
| 8 | Lip ring | 21.9 | Plunger assly. |
| 9 | Sleeve | 21.15 | Seal |
| 11 | Nut | 31 | Screw |
| 12 | Disk | 40 | Shim |
| 13 | O-ring | | |

Sectional drawings

03



- | | | | |
|----|---------------------|-------|------------------------|
| 1 | Body | 14 | Spring actuator assly. |
| 4 | Seal support assly. | 21 | 3/2 pilot valve |
| 5 | Spool | 21.3 | O-ring |
| 6 | Piston | 21.4 | O-ring |
| 7 | Solenoid | 21.8 | Spring assly. |
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| 9 | Sleeve | 21.15 | Seal |
| 11 | Nut | 31 | Screw |
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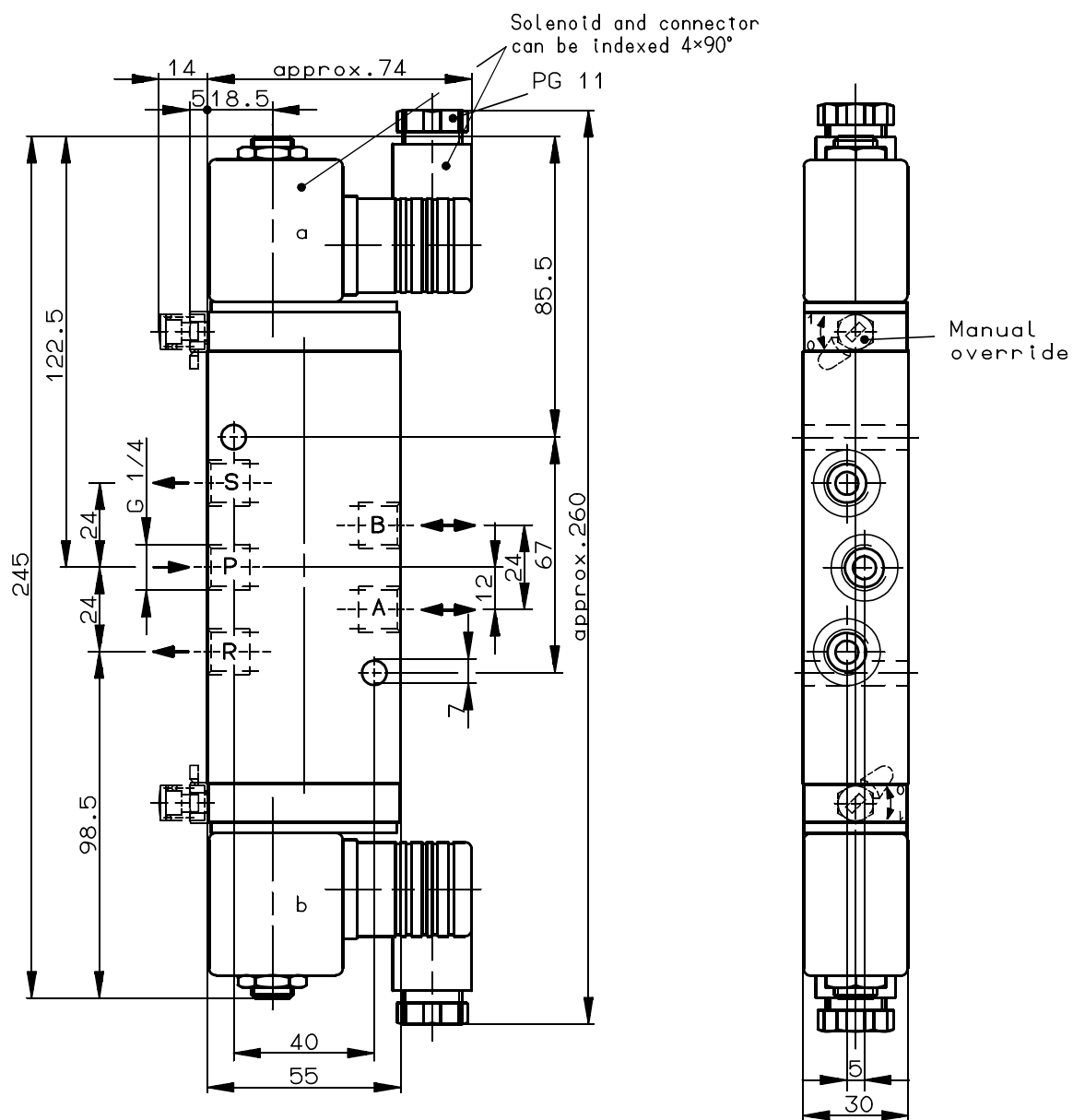
Spare parts kit Cat. No.	Valve Cat. No.
0557586	2636300/2636404/2636500
0558086	2637300/2637400

All parts marked with an asterisk are included in spare parts kit.

When ordering, please state also valve Cat. No.

Dimensional drawings

01



02

