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## SOLENOID VALVE

3/2 - 5/2

341



### TECHNICAL DATA

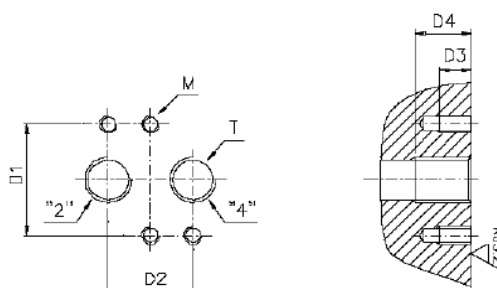
<b>Function:</b>	3/2 , 5/2 and 5/3 solenoid and air operated valves.
<b>Manual override:</b>	Standard on all solenoid operated versions
<b>Design:</b>	Pilot operated spool valve with combined pneumatic and spring return
<b>Mounting:</b>	For direct mounting on NAMUR interface
<b>Mounting position:</b>	Indifferent.
<b>Material specifications:</b>	Aluminium body. Internal parts from stainless steel. Sealing material from NBR
<b>Range of admissible pressure drop:</b>	$\Delta p$ min. = see table $\Delta p$ max. = 10 bar
<b>Media:</b>	Dry or lubricated air
<b>Fluid temperature:</b>	Min. 0 °C. Max. + 50 °C.
<b>Ambient temperature:</b>	-10 °C to +50 °C.
<b>Electrical part:</b>	Miniature coil 496131 (3W) encapsulated in synthetic material. Connection with 3-pin DIN 43650 type B plug. Degree of protection IP 65.
<b>Solenoid duty:</b>	100% ED
<b>Voltage:</b>	12 VDC , 24 VDC , 48 VDC , 24 V / 50-60 AC, 48 V / 50-60 AC, 110 V / 50-60 AC 115 V / 60 Hz AC, 230 V / 50-60 AC
<b>Voltage tolerance:</b>	$\pm$ 10% of nominal
<b>Class of insulation material:</b>	Class F for 496131 coil.

### Applications

- 3- or 4-way directional valves for the control of single – or double acting pneumatic actuators
- The interface design corresponds to the NAMUR standard and the VDI/VDE 3845 recommendations of the actuator industry and permits a compact design of the actuator/valve unit.

### NAMUR Interfaces

T	D1 mm	D2 mm	D3 mm	D4 min. Mm	M mm
1/4	32	24	8	12	M5
1/2	45	40	10	16	M6



# SOLENOID VALVE

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## Coils

### Without DIN plug

Voltage	Description	Order No.
12VDC	22mm standard coil	496131 C1
24VDC	22mm standard coil	496131 C2
48VDC	22mm standard coil	496131 C4
110VDC	22mm standard coil	496131 C5
24/50-60AC	22mm standard coil	496131 P0
48/50-60AC	22mm standard coil	496131 S4
110/50-60AC	22mm standard coil	496131 P2
115/60AC	22mm standard coil	496131 K8
230/50-60AC	22mm standard coil	496131 P9

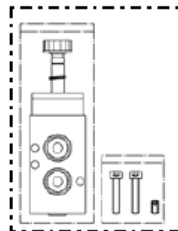
### With DIN plug

Voltage	Description	Order No.
12VDC	22mm standard coil	496482 C1
24VDC	22mm standard coil	496482 C2
48VDC	22mm standard coil	496482 C4
110VDC	22mm standard coil	496482 C5
24/50-60AC	22mm standard coil	496482 P0
48/50-60AC	22mm standard coil	496482 S4
110/50-60AC	22mm standard coil	496482 P2
115/60AC	22mm standard coil	496482 K8
230/50-60AC	22mm standard coil	496482 P9

## How to order

Valve reference No. \* - Coil reference - Voltage code = order code (non assembled)

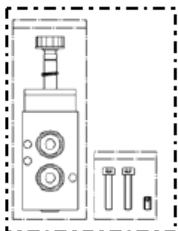
\* includes mounting kit for coil assembly + 2x NAMUR O-rings + 2 mounting screws and positioning dowel



+



Example: 341 N 03 +496131C2 = 341N03-496131C2 (without DIN plug)



+



Example: 341 N 03 + 496482C2 = 341N03-496482C2 (with DIN plug)

Valves and coils may also be ordered separately

## Spare Parts

### • Spare Housing

Plastic nut with O-ring  
Maximum torque 0.5 Nm

Order No. 3125



### • Spare part mounting kit

For G 1/4 models - Order No. 496132 Spare part kit includes:  
2 screws DIN912 M5x25 A2, 1 pin DIN 913 M5x10 A2, 2 O-rings NBR 15x2.5

For G 1/2 models - Order No. 496133 Spare part kit includes:  
2 screws DIN912 M6x35 A2, 1 pin DIN 913 M6x12 A2, 2 O-rings NBR 24x3



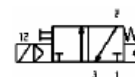
# SOLENOID VALVE

**3/2 - 5/2**

**341**

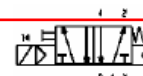
Port size	Orifice	Q <sub>N</sub>	Admissible differential pressure [bar]		Max. admissible fluid temperature [°C]		Seat disc	Reference N°		Power consumption [Watt]		Weight [g]	Dim. ref.
G	mm	L/min	min	max	DC=	AC~	Min. = 0 °C Air & Neutral gases	Valve	Coil	DC	AC		

## 3/2 Pilot operated valve - Internal pressure supply



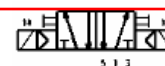
1/4	7	1250	2.5	10	10	50	NBR	<b>331N03</b>	496131	3	3	300	1
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## 5/2 Pilot operated valve - Internal pressure supply



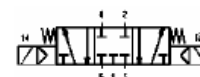
1/4	7	1250	2.5	10	10	50	NBR	<b>341N03</b>	496131	3	3	300	2
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## 5/2 Control by 2 solenoids and internal pressure supply



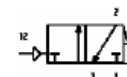
1/4	7	1250	2	10	10	50	NBR	<b>347N03</b>	496131	3	3	430	3
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## 5/3 Control by 2 solenoids and internal pressure supply Closed in centre position



1/4	7	1250	3	10	10	50	NBR	<b>342N03</b>	496131	3	3	430	4
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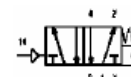
## 3/2 Externally operated valve - External pressure supply 2.5 to



10 bar

1/4	7	1250	2.5	10	10	50	NBR	<b>531N03</b>	-	-	-	210	5
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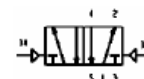
## 5/2 Externally operated valve - External pressure supply 2.5 to



10 bar

1/4	7	1250	2.5	10	10	50	NBR	<b>541N03</b>	-	-	-	210	6
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## 5/2 Externally operated valve - 2x External pressure supply 2 to



10 bar

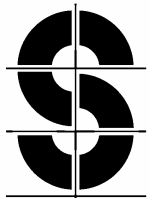
1/4	7	1250	1.5	10	10	50	NBR	<b>547N03</b>	-	-	-	240	7
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## 5/3 Externally operated valve - 2x External pressure supply 3 to Closed in centre position



10 bar

1/4	7	1250	1.5	10	10	50	NBR	<b>542N03</b>	-	-	-	210	8
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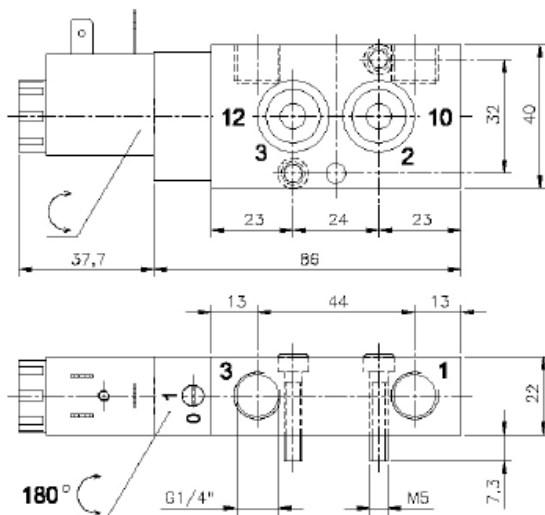
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**VALVES AND FITTINGS  
MEASURE AND CONTROL  
REGULATION SERVICES**

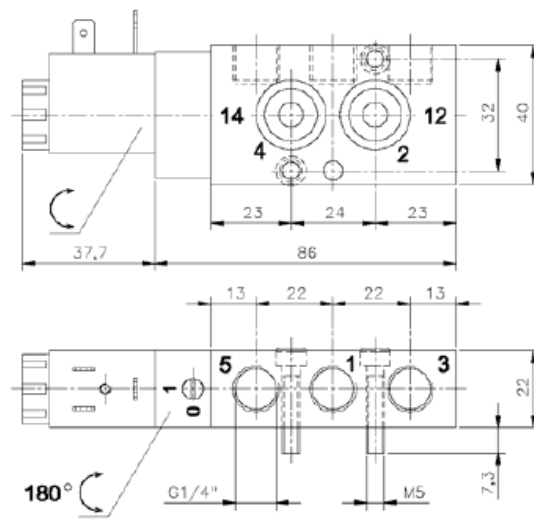
## SOLENOID VALVE

3/2 - 5/2

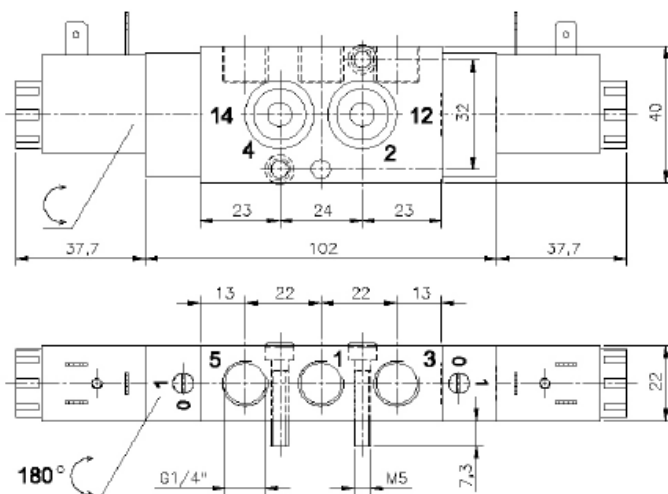
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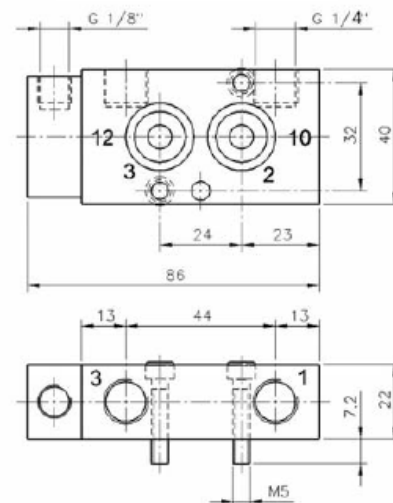
Dimension ref. 1



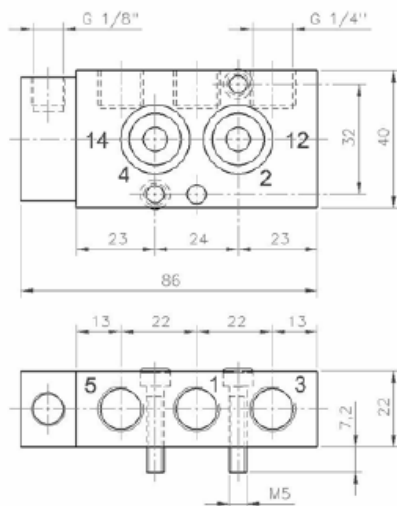
Dimension ref. 2



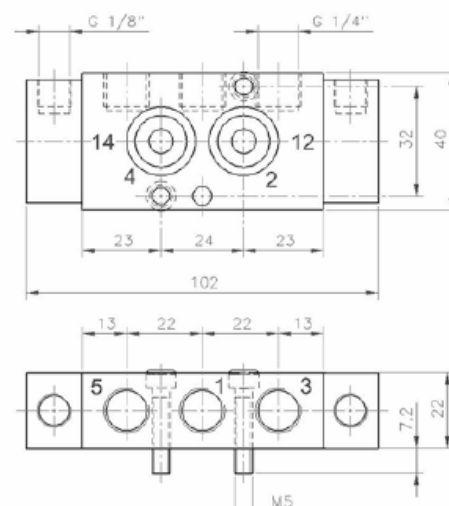
Dimension ref. 3 & 4



Dimension ref. 5



Dimension ref. 6



Dimension ref. 7 & 8

