

General

The 2000 series solenoid valves have been developed to meet requirements for electronically controlled pneumatic systems and / or serial control systems already used in all manufacturing sectors.

They have been designed to be easily assembled into groups or manifolds and include integral electrical connection to facilitate simple and speedy integration into a control system. The series comprises a range of products classified according to type, size and performance. There are three main sizes, 10mm., 18 mm. and 26 mm., with each size further divided into 3 types "LINE", "FLAT" and "VDMA" or "BASE".

The 10mm. and 18 mm. 24 VDC range of valves includes a range of accessories for the production of manifolded valve assemblies with integral electrical connections. Modules are available in two or four station variants for flexibility and are supplied to IP40 or alternatively IP65 environmental protection.

Construction characteristics

	2100	2400	2600
Central body	Extruded aluminium bar with chemical nickel treatment and PTFE (polytetrafluorethylene)		
Connection plates	Technopolymer	Zincalloy	Die-cast aluminium
Operators	Technopolymer		
Spool	Aluminium 2011		
Piston seals	Oil resistant nitrile rubber - NBR		
Spool seals	Oil resistant nitrile rubber - HNBR		
Springs	Stainless steel AISI 302		
Piston	Aluminium 2011	Technopolymer	

Use and maintenance

The average life of the valve exceeds 50.000.000 cycles when used under optimum conditions.

Adequate lubrication reduces seals wear, just as proper filtering of supply air prevents the build-up of dirt that can cause malfunction. Ensure the valve is used within our recommended criteria for pressure and temperature. In dirty or dusty environments, the exhaust ports should be protected.

A seal kit including the spool is available for overhauling the valve. This operation does not require a skilled worker, although a particular care should be taken when reassembling the valve.

Ordering codes for miniature solenoid valves

Series 2100:

The 10 mm. miniature solenoid valve with 0,7 mm. orifice has been selected for piloting this series of valves (see Series 300). This results in low response times and reduced power consumption. The valve can be supplied with the coil upward or downward depending on the application.

Codes are as follows:

Coil upward code

- 01 = miniature sol. 12 VDC 90°conn. with led
- 21 = miniature sol. 12 VDC line conn. with led
- 02 = miniature sol. 24 VDC 90°conn. with led
- 22 = miniature sol. 24 VDC line conn. with led

Coil downward code

- 11 = miniature sol. 12 VDC 90° conn. with led
- 31 = miniature sol. 12 VDC line conn. with led
- 12 = miniature sol. 24 VDC 90°conn. with led
- 32 = miniature sol. 24 VDC line conn. with led
- 91 = miniature sol. 12 VDC for integral electrical connections
- 92 = miniature sol. 24 VDC for integral electrical connections

Serie 2400/2600:

The 15 mm miniature solenoid valve with 1,1 mm. orifice has been selected for piloting this series of valves (see Series 300). This results in low response times and reduced power consumption. The valve can be supplied with the coil upward or downward depending on the application.

Codes are as follows:

Coil upward code

- 01 = miniature sol. 12 VDC
- 02 = miniature sol. 24 VDC
- 05 = miniature sol. 24 VAC
- 06 = miniature sol. 110 VAC
- 07 = miniature sol. 230 VAC
- 08 = miniature sol. 24 VDC 1W
- 09 = miniature sol. 24 VDC Earth faston

Coil downward code

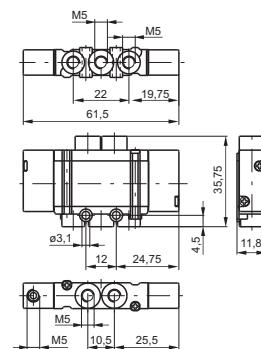
- 11 = miniature sol. 12 VDC
- 12 = miniature sol. 24 VDC
- 15 = miniature sol. 24 VAC
- 16 = miniature sol. 110 VAC
- 17 = miniature sol. 230 VAC
- 18 = miniature sol. 24 VDC 1W Downward
- 19 = miniature sol. 24 VDC Earth faston Downward

	Well-tryed component	<ul style="list-style-type: none"> - The product is a well-tryed product for a safety-related application according to ISO 13849-1. - The relevant basic and well-tryed safety principles according ISO 13849-2 for this product are fulfilled. - The suitability of the product for a precise application must be verified and confirmed by the user.
B_{10d}	50.000.000	

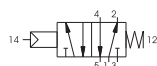
Miniature solenoid C US homologated are available (see Series 300).

Pneumatic - Spring

Ordering code
2115.52.00.19



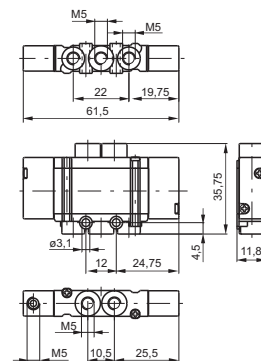
Weight gr. 30
Minimum piloting pressure 2 bar



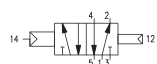
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

Pneumatic - Differential

Ordering code
2115.52.00.16



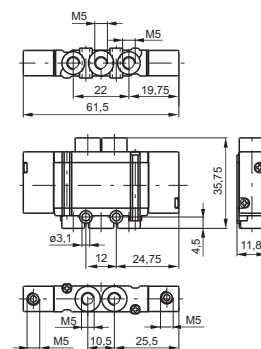
Weight gr. 28
Minimum piloting pressure 2 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

Pneumatic - Pneumatic

Ordering code
2115.52.00.18



Weight gr. 30
Minimum piloting pressure 2 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

Solenoid - Spring / Solenoid - Differential

Ordering code

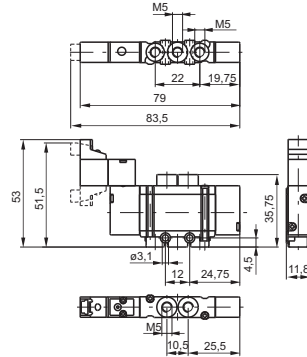
2115.52.00.P.V

PILOTING

- P** 39=Solenoïd - Spring
- 36=Solenoïd - Differential

COIL VOLTAGE

- V** 01=12 VDC 90°conn. with led
- 21=12 VDC line conn. with led
- 02=24 VDC 90°conn. with led
- 22=24 VDC line conn. with led
- 11=12 VDC 90°conn. with led downward
- 31=12 VDC line conn. with led downward
- 12=24 VDC 90° conn. with led downward
- 32=24 VDC line conn. with led downward



Weight gr. 42
Minimum working pressure 2 bar



Weight gr. 40
Minimum operating pressure 2 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5

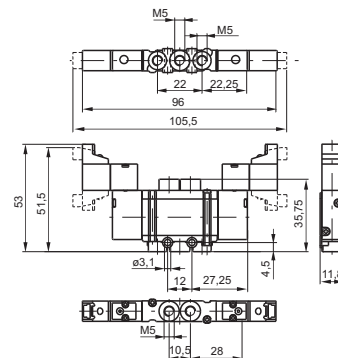
Solenoid - Solenoid

Ordering code

2115.52.00.35.V

COIL VOLTAGE

- V** 01=12 VDC 90°conn. With led
- 21=12 VDC line conn. with led
- 02=24 VDC 90°conn. with led
- 22=24 VDC line conn. with led
- 11=12 VDC 90°conn. with led downward
- 31=12 VDC line conn. with led downward
- 12=24 VDC 90° conn. with led downward
- 32=24 VDC line conn. with led downward



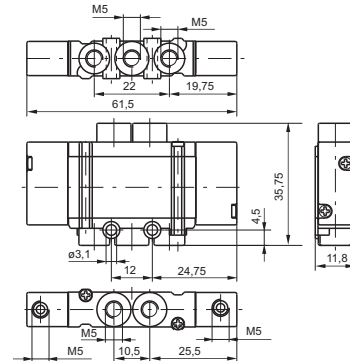
Weight gr. 52
Minimum working pressure 2 bar



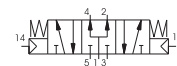
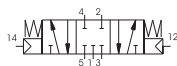
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5

Pneumatic - Pneumatic

Ordering code	2115.53.F.18
FUNCTION	
F 31=Closed centres	
32=Open centres	
33=Pressured centres	



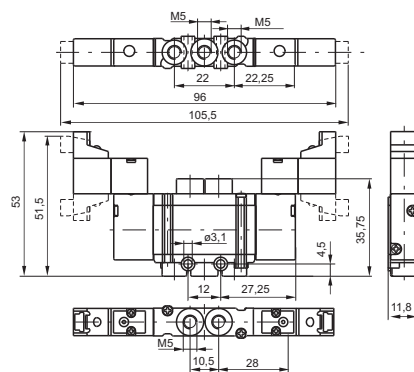
Weight gr. 32
Minimum working pressure 2,5 bar



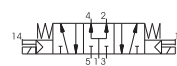
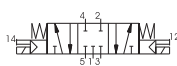
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	7 bar	-5 - +50	180 NI/min	mm 2,5

Solenoid - Solenoid

Ordering code	2115.53.F.35.V
FUNCTION	
F 31=Closed centres	
32=Open centres	
33=Pressured centres	
COIL VOLTAGE	
01=12 VDC 90° conn. with led	
21=12 VDC line conn. with led	
02=24 VDC 90° conn. with led	
22=24 VDC line conn. with led	
V 11=12 VDC 90° conn. whit led downward	
31=12 VDC line conn. with led downward	
12=24 VDC 90° conn. with led downward	
32=24 VDC line conn. with led downward	



Weight gr. 54
Minimum working pressure 2,5 bar



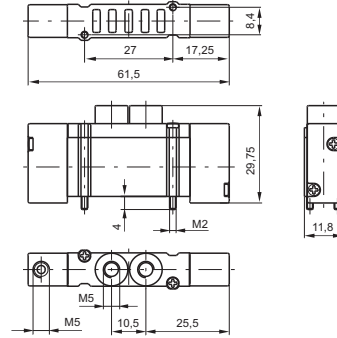
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	7 bar	-5 - +50	180 NI/min	mm 2,5



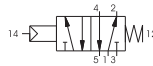
Pneumatic - Spring

Ordering code

2135.52.00.19



Weight gr. 32
Minimum piloting pressure 2 bar

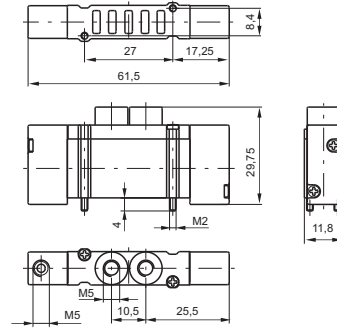


Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

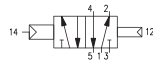
Pneumatic - Differential

Ordering code

2135.52.00.16



Weight gr. 30
Minimum piloting pressure 2 bar

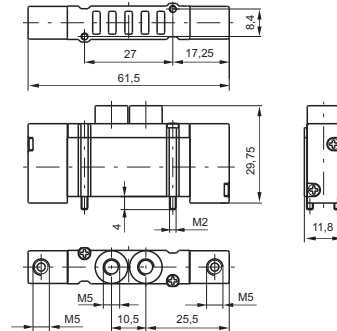


Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

Pneumatic - Pneumatic

Ordering code

2135.52.00.18



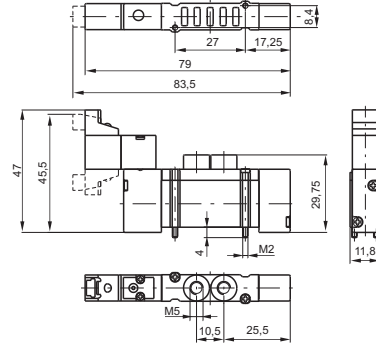
Weight gr. 32
Minimum piloting pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

Solenoid - Spring / Solenoid - Differential

Ordering code
2135.52.00.P.V
PILOTING
P 39= Solenoid - Spring
36= Solenoid - Differential
COIL VOLTAGE
01= 12 VDC 90° conn. with led
21= 12 VDC line conn. with led
02= 24 VDC 90° conn. with led
22= 24 VDC line conn. with led
11= 12 VDC 90° conn. with led downward
V 31= 12 VDC line conn. with led downward
12= 24 VDC 90° conn. with led downward
32= 24 VDC line conn. with led downward
91= 12 VDC for integral electrical connections downward
92= 24 VDC for integral electrical connections downward



Weight gr. 38
Minimum working pressure 2 bar

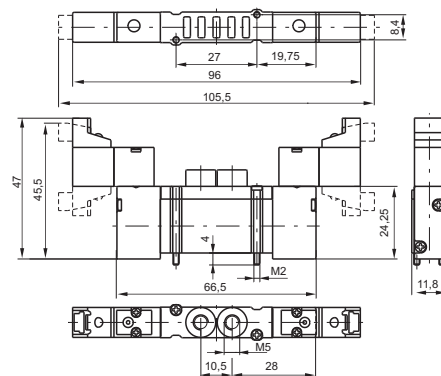


Weight gr. 36
Minimum operating pressure 2 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

Solenoid - Solenoid

Ordering code
2135.52.00.35.V
COIL VOLTAGE
01= 12 VDC 90° conn. with led
21= 12 VDC line conn. with led
02= 24 VDC 90° conn. with led
22= 24 VDC line conn. with led
11= 12 VDC 90° conn. with led downward
V 31= 12 VDC line conn. with led downward
12= 24 VDC 90° conn. with led downward
32= 24 VDC line conn. with led downward
91= 12 VDC for integral electrical connections downward
92= 24 VDC for integral electrical connections downward



Weight gr. 50
Minimum working pressure 1,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5	M5

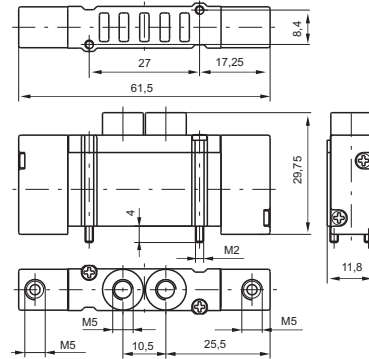
Pneumatic - Pneumatic

Ordering code

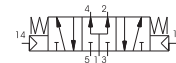
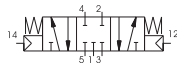
2135.53.F.18

FUNCTION

- F** 31=Closed centres
- 32=Open centres
- 33=Pressured centres



Weight gr. 28
Minimum working pressure 2 bar



For dimension "A" see ordering code

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	7 bar	-5 - +50	180 NI/min	mm 2,5

Solenoid - Solenoid

Ordering code

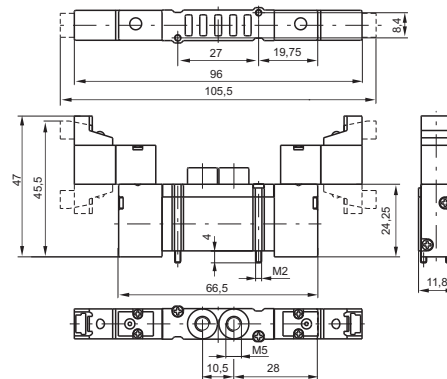
2135.53.F.35.V

FUNCTION

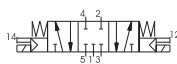
- F** 31=Closed centres
- 32=Open centres
- 33=Pressured centres

COIL VOLTAGE

- 01=12 VDC 90° conn. with led
- 21=12 VDC line conn. with led
- 02=24 VDC 90° conn. with led
- 22=24 VDC line conn. with led
- 11=12 VDC 90° conn. with led downward
- V** 31=12 VDC line conn. with led downward
- 12=24 VDC 90° conn. with led downward
- 32=24 VDC line conn. with led downward
- 91=12 VDC for integral electrical connections downward
- 92=24 VDC for integral electrical connections downward



Weight gr. 52
Minimum operating pressure 2,5 bar

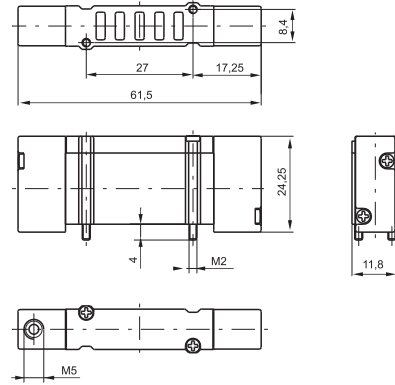


For dimension "A" see ordering code

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
		Filtered and lubricated air or not	7 bar	-5 - +50	180 NI/min	mm 2,5

Pneumatic - Spring

Ordering code
2141.52.00.19



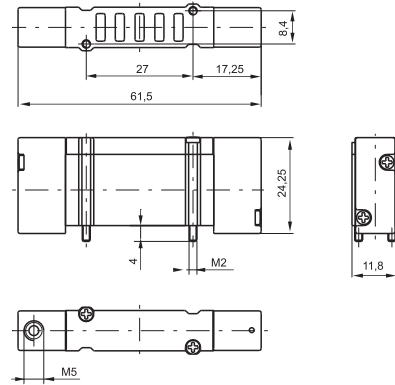
Weight gr. 24
Minimum piloting pressure 2 bar



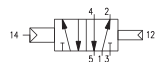
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5

Pneumatic - Differential

Ordering code
2141.52.00.16



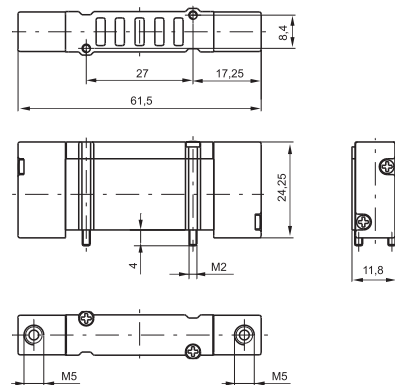
Weight gr. 22
Minimum piloting pressure 2 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5

Pneumatic - Pneumatic

Ordering code
2141.52.00.18



Weight gr. 26
Minimum piloting pressure 1,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)
	Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min	mm 2,5

2

Solenoid - Spring / Solenoid - Differential

Ordering code

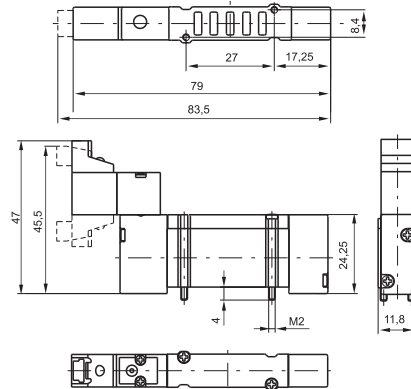
2141.52.00.P.V

PILOTING

- P** 39=Solenoïd - Spring
- 36=Solenoïd - Differential

COIL VOLTAGE

- 01=12 VDC 90°conn. with led
- 21=12 VDC line conn. with led
- 02=24 VDC 90°conn. with led
- 22=24 VDC line conn. with led
- 11=12 VDC 90°conn. with led downward
- V** 31=12 VDC line conn. with led downward
- 12=24 VDC 90° conn. with led downward
- 32=24 VDC line conn. with led downward
- 91=12 VDC for integral electrical connections downward
- 92=24 VDC for integral electrical connections downward



Weight gr. 38
Minimum working pressure 2 bar



Weight gr. 36
Minimum working pressure 2 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)
		Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min

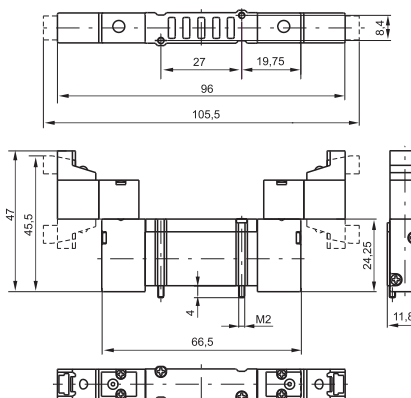
Miniature solenoid - Miniature solenoid

Ordering code

2141.52.00.35.V

COIL VOLTAGE

- 01=12 VDC 90°conn. with led
- 21=12 VDC line conn. with led
- 02=24 VDC 90°conn. with led
- 22=24 VDC line conn. with led
- 11=12 VDC 90°conn. with led downward
- V** 31=12 VDC line conn. with led downward
- 12=24 VDC 90° conn. with led downward
- 32=24 VDC line conn. with led downward
- 91=12 VDC for integral electrical connections downward
- 92=24 VDC for integral electrical connections downward



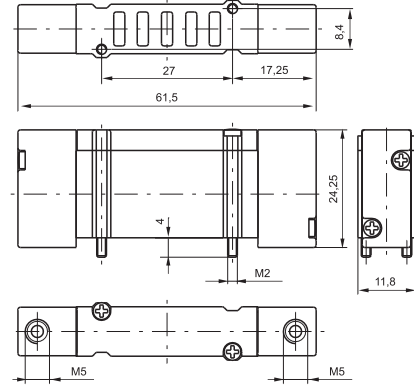
Weight gr. 48
Minimum working pressure 1,5 bar



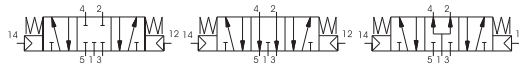
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)
		Filtered and lubricated air or not	7 bar	-5 - +50	250 NI/min

Pneumatic - Pneumatic

Ordering code	2141.53.F.18
FUNCTION	
F 31=Closed centres	
32=Open centres	
33=Pressured centres	



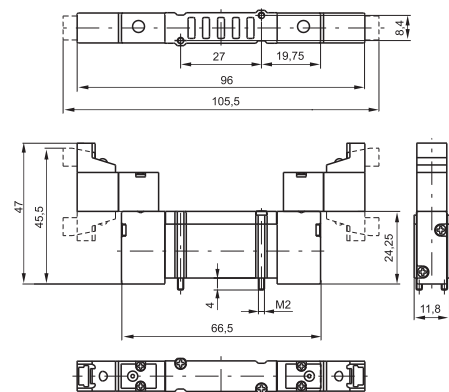
Weight gr. 28
Minimum working pressure 2 bar



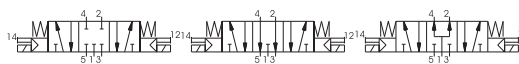
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)
		Filtered and lubricated air or not	7 bar	-5 - +50	180 NI/min

Solenoid - Solenoid

Ordering code	2141.53.F.35.V
FUNCTION	
F 31=Closed centres	
32=Open centres	
33=Pressured centres	
COIL VOLTAGE	
01=12 VDC 90° conn. with led	
21=12 VDC line conn. with led	
02=24 VDC 90° conn. with led	
22=24 VDC line conn. with led	
11=12 VDC 90° conn. with led downward	
V 31=12 VDC line conn. with led downward	
12=24 VDC 90° conn. with led downward	
32=24 VDC line conn. with led downward	
91=12 VDC for integral electrical connections downward	
92=24 VDC for integral electrical connections downward	



Weight gr. 52
Minimum working pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)
		Filtered and lubricated air or not	7 bar	-5 - +50	180 NI/min

2

Modular base for "BASE" version

Ordering code

2140.01

TYPE

0=modular BASE without cartridges

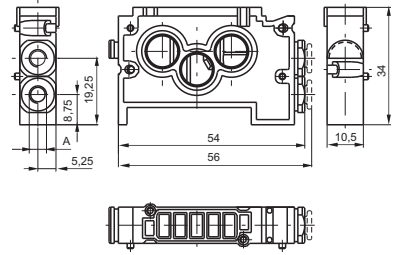
T 4=modular BASE c/w with 4 mm tube cartridges

5=modular BASE c/w with M5 cartridges

7=modular BASE c/w with M7x1 cartridges

Weight gr. 22

For dimension "A" see ordering code



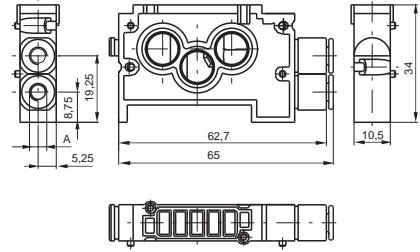
Modular base for "BASE" version, with 6mm tube cartridges

Ordering code

2146.01

Weight gr. 22

For dimension "A" see ordering code

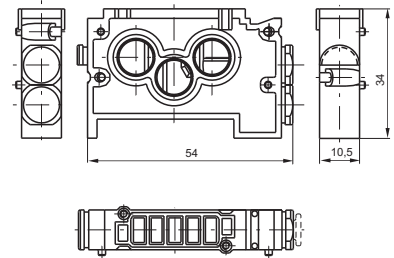


Modular base for "FLAT" version

Ordering code

2130.01

Weight gr. 28

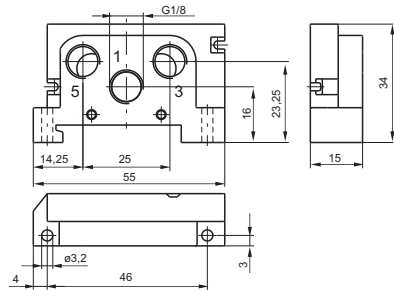


Right inlet base

Ordering code

2140.02

Weight gr. 18

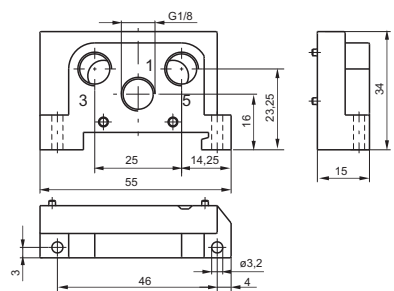


Left inlet base

Ordering code

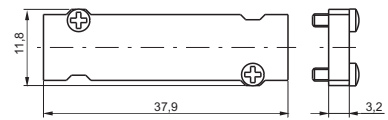
2140.03

Weight gr. 18



Closing plate

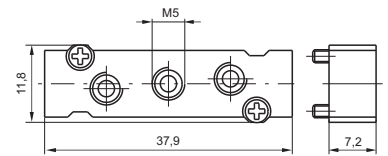
Ordering code
2130.00



Weight gr. 7

Intermediate air intake

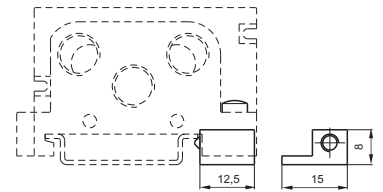
Ordering code
2130.10



Weight gr. 12
to be assembled of a valve

DIN rail adapter

Ordering code
2130.16



Weight gr. 6

Modular base cartridge

Ordering code
2100.Ⓡ
TYPE
031M=4mm tube cartridges
Ⓡ 033M=M5 cartridges
034M=M7x1 cartridges
035M=lock cartridges
036M=6mm tube cartridges



Weight gr. 5

Diaphragm plug

Ordering code
2130.17

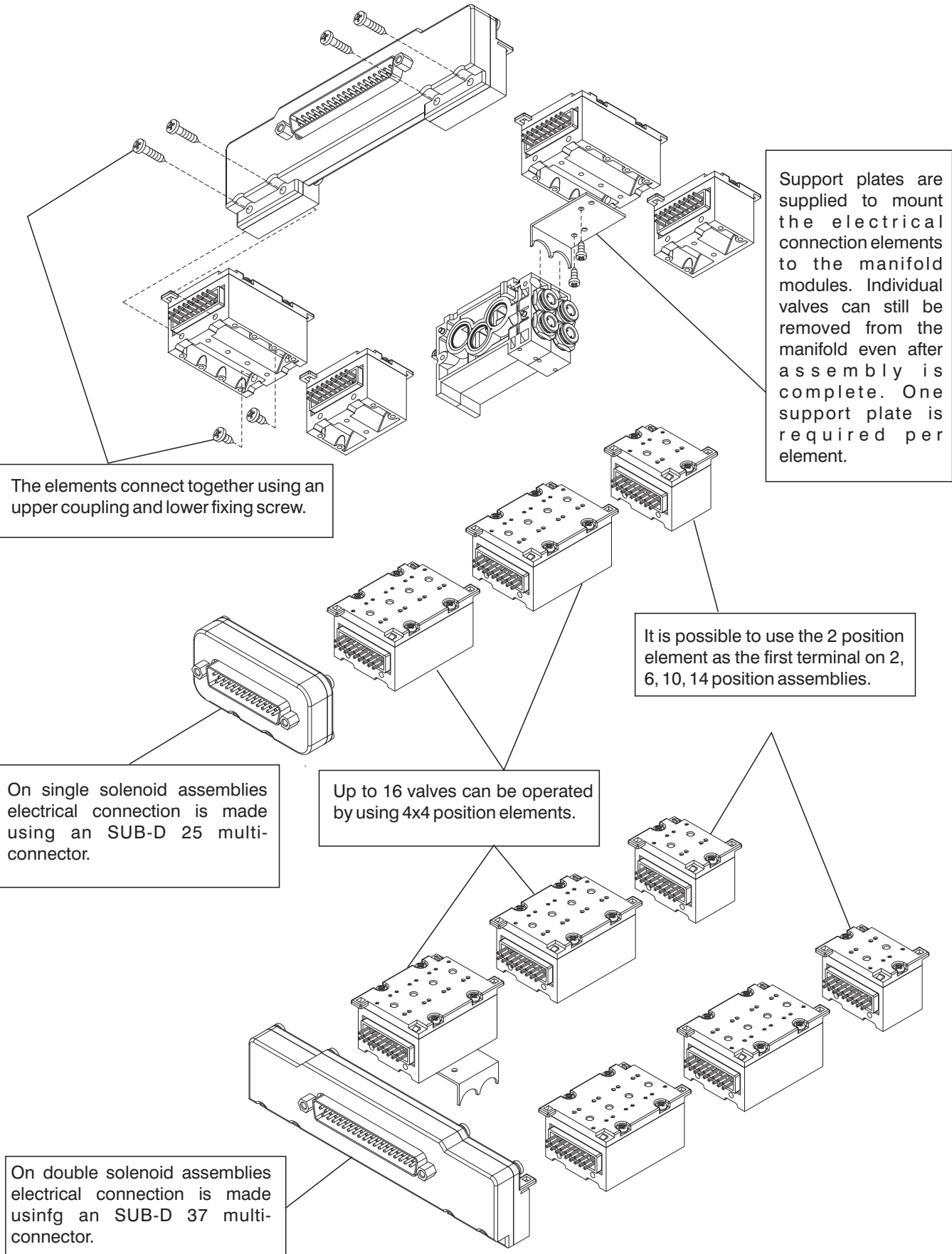


Weight gr. 6

The integral electrical design for the series 2400 valve is extremely flexible, allowing the production of pre-wired solenoid valve manifolds, the configuration of which can be determined at the point of assembly. The 24 VDC, 12 VDC (equivalent PNP) modules are available with 2 or 4 positions. The system assembled is designed for an IP40 - IP65 protection.

Coil type 91 or 92 is required for the multipin electrical connection (see valve ordering codes).

2



The elements connect together using an upper coupling and lower fixing screw.



Support plates are supplied to mount the electrical connection elements to the manifold modules. Individual valves can still be removed from the manifold even after assembly is complete. One support plate is required per element.

It is possible to use the 2 position element as the first terminal on 2, 6, 10, 14 position assemblies.



On single solenoid assemblies electrical connection is made using an SUB-D 25 multi-connector.



Up to 16 valves can be operated by using 4x4 position elements.

On double solenoid assemblies electrical connection is made using a SUB-D 37 multi-connector.

4 positions module	Ordering code	2 positions module												
	2100.P.T													
	<table border="1"> <tr><td>PLACES</td></tr> <tr><td>P 04=4 Places</td></tr> <tr><td>02=2 Places</td></tr> <tr><td>TYPE</td></tr> <tr><td>00=left IP40-PNP</td></tr> <tr><td>02=left IP40-PNP with protection diode</td></tr> <tr><td>10=left IP65-PNP</td></tr> <tr><td>T 12=left IP65-PNP with protection diode</td></tr> <tr><td>01=right IP40-PNP</td></tr> <tr><td>03= right IP40-PNP with protection diode</td></tr> <tr><td>11=right IP65-PNP</td></tr> <tr><td>13=right IP65-PNP with protection diode</td></tr> </table>	PLACES	P 04=4 Places	02=2 Places	TYPE	00=left IP40-PNP	02=left IP40-PNP with protection diode	10=left IP65-PNP	T 12=left IP65-PNP with protection diode	01=right IP40-PNP	03= right IP40-PNP with protection diode	11=right IP65-PNP	13=right IP65-PNP with protection diode	
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13=right IP65-PNP with protection diode														
Weight gr. 35		Weight gr. 20												

2

Front connector IP65 - 37 poles	Ordering code	Front connector IP65 - 25 poles								
	2100.37.10									
<table border="1"> <tr><td>Ordering code</td></tr> <tr><td>2100.37.10</td></tr> <tr><td>Weight gr. 120</td></tr> <tr><td>The IP65 protection is obtained by IP65 Pneumax cable</td></tr> </table>	Ordering code	2100.37.10	Weight gr. 120	The IP65 protection is obtained by IP65 Pneumax cable		<table border="1"> <tr><td>Ordering code</td></tr> <tr><td>2100.25.10</td></tr> <tr><td>Weight gr. 40</td></tr> <tr><td>The IP65 protection is obtained by IP65 Pneumax cable</td></tr> </table>	Ordering code	2100.25.10	Weight gr. 40	The IP65 protection is obtained by IP65 Pneumax cable
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Ordering code										
2100.25.10										
Weight gr. 40										
The IP65 protection is obtained by IP65 Pneumax cable										

Plug	Ordering code	FLAT support plate
	2100.00	
Weight gr. 4		Weight gr. 5

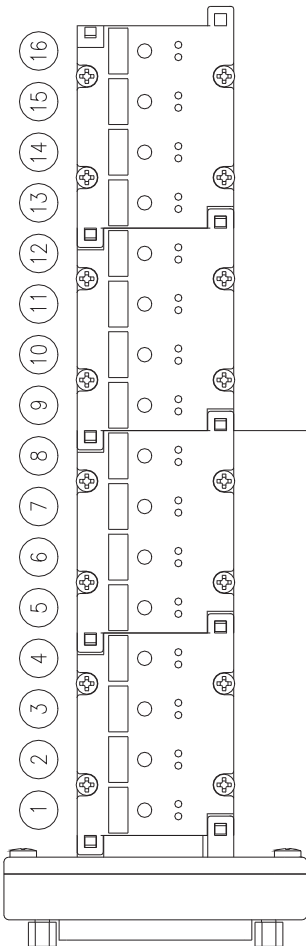
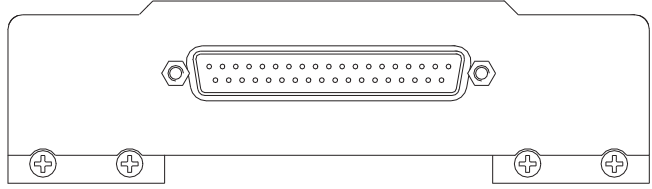
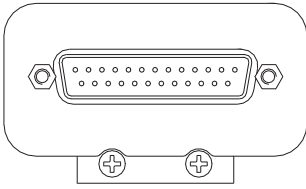
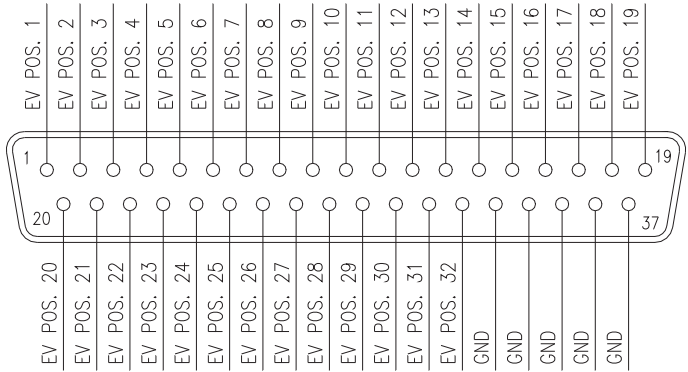
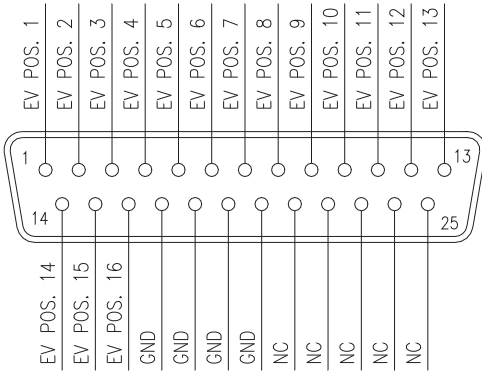
In line cable complete with connector IP40									
									
<table border="1"> <tr><td>Ordering code</td></tr> <tr><td>2400.T.L.00</td></tr> <tr><td>CONNECTOR TYPE</td></tr> <tr><td>T 25=25 contacts</td></tr> <tr><td>37=37 contacts</td></tr> <tr><td>CABLE LENGTH</td></tr> <tr><td>L 03=3 meters</td></tr> <tr><td>05=5 meters</td></tr> <tr><td>10=10 meters</td></tr> </table>	Ordering code	2400.T.L.00	CONNECTOR TYPE	T 25=25 contacts	37=37 contacts	CABLE LENGTH	L 03=3 meters	05=5 meters	10=10 meters
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Cable complete with connector, 25 Poles IP65									
									
<table border="1"> <tr><td>Ordering code</td></tr> <tr><td>2300.25.L.C</td></tr> <tr><td>CABLE LENGTH</td></tr> <tr><td>L 03=3 meters</td></tr> <tr><td>05=5 meters</td></tr> <tr><td>10=10 meters</td></tr> <tr><td>CONNECTOR</td></tr> <tr><td>C 10=In line</td></tr> <tr><td>90=a 90°</td></tr> </table>	Ordering code	2300.25.L.C	CABLE LENGTH	L 03=3 meters	05=5 meters	10=10 meters	CONNECTOR	C 10=In line	90=a 90°
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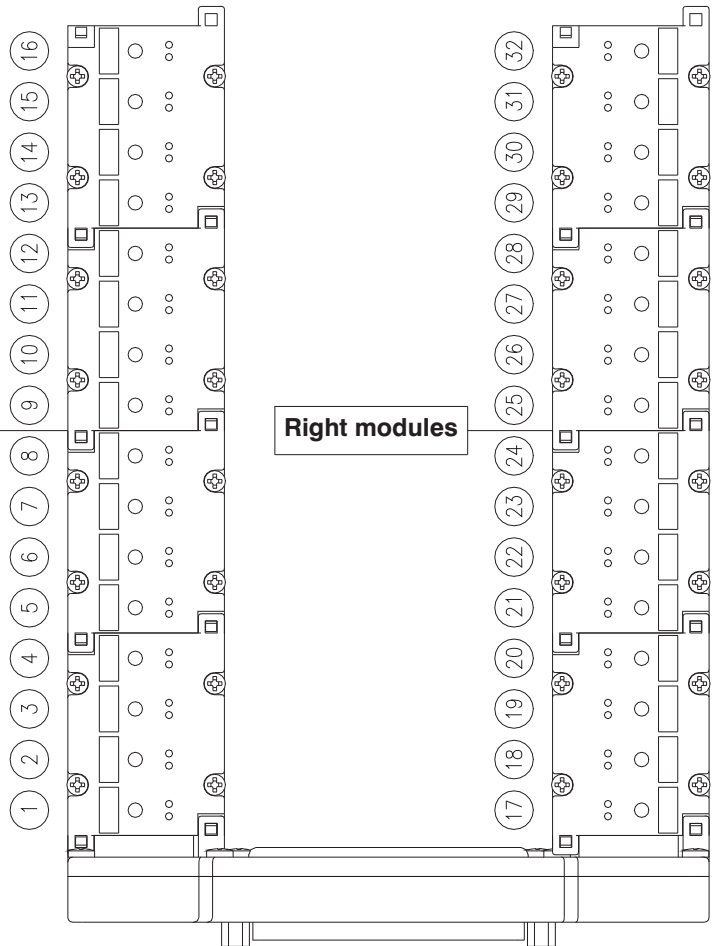
Cable complete with connector, 37 Poles IP65									
									
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SUB-D 25 CONTACTS CONNECTOR

SUB-D 37 CONTACTS CONNECTOR



Left modules



Right modules