

Series 2400

This solenoid valves series has 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 2400 series comprises a range of products classified according to the body size of 18 mm divided into 3 types "LINE", "FLAT" and "VDMA". 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

| | |
|-------------------|--|
| Central body | Extruded aluminium bar with chemical nickel treatment and PTFE (polytetrafluoroethylene) |
| Connection plates | Zinc alloy |
| Spool seals | Oil resistant nitrile rubber-HNBR |
| Springs | AISI 302 stainless steel |
| Operators | Technopolymer |
| Pistons | Technopolymer |
| Spools | Aluminium 2011 |

Use and maintenance

The average life of the solenoid 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.

Seals kits are available for repairs.

Repairs must be made exclusively by specialized personnel.

Ordering codes for miniature solenoid valves

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 (multipolar connections) 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
- 19 = miniature sol. + 24 VDC Earth faston

| | | |
|---|-----------------------------|---|
|  | Well-tried component | <ul style="list-style-type: none"> - The product is a well-tried product for a safety-related application according to ISO 13849-1. - The relevant basic and well-tried 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  homologated are available (see Series 300).



Spool type valves and solenoid valves

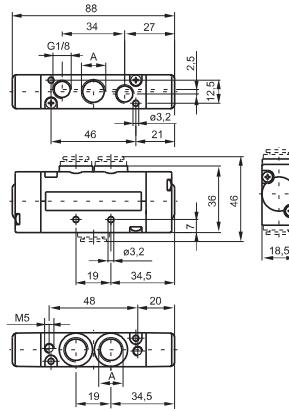
Series 2400 - Size 18mm LINE

Pneumatic - Spring

Coding: 241A.52.00.19

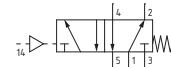
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|-------------------------|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |



Weight 155 g

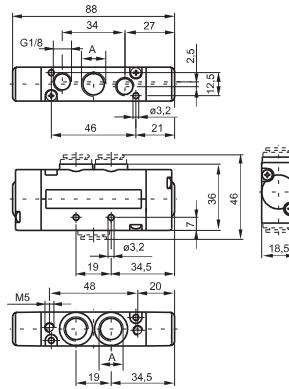
For dimension "A" see ordering code



Coding: 241A.52.00.16

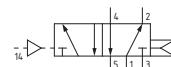
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|-------------------------|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |



Weight 155 g

For dimension "A" see ordering code

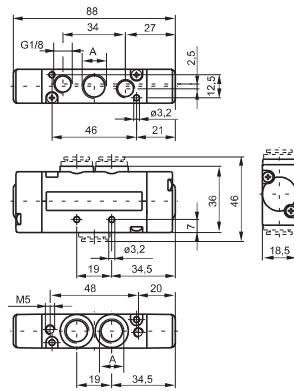


► Pneumatic - Differential (External)

Coding: 241A.52.00.17

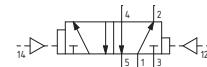
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|-------------------------|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |



Weight 155 g

For dimension "A" see ordering code

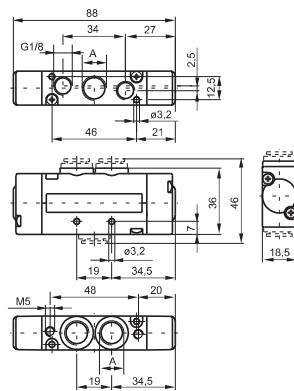


► Pneumatic - Pneumatic

Coding: 241A.52.00.18

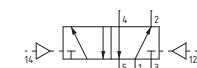
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 1.5 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|-------------------------|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |



Weight 155 g

For dimension "A" see ordering code





Spool type valves and solenoid valves

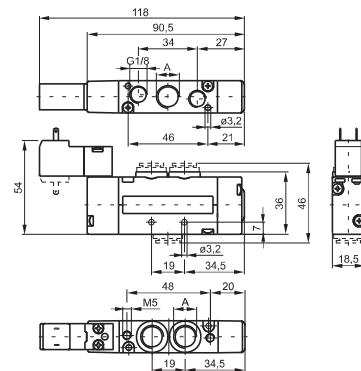
Series 2400 - Size 18mm LINE

Solenoid-Spring/Differential

Coding: 241A.52.00.V.T

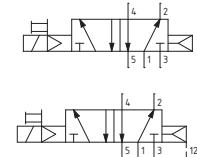
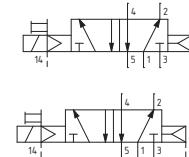
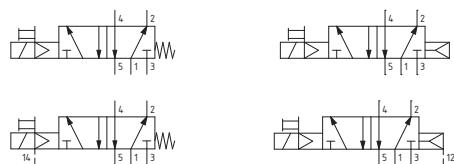
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|--|
| A | 1 = G1/4" |
| | 5 = G1/8" |
| | 6 = Quick fitting tube Ø6 |
| | 8 = Quick fitting tube Ø8 |
| VERSION | |
| V | 39 = Solenoid-Spring |
| | 29 = Solenoid external-Spring |
| | 36 = Solenoid-Differential |
| V | 37 = Solenoid-Differential external |
| | 26 = Solenoid external-Differential |
| | 27 = Solenoid external-Differential external |
| VOLTAGE | |
| 01 | = + 12 VDC |
| 02 | = + 24 VDC |
| 05 | = + 24 VAC |
| 06 | = 110 VAC |
| 07 | = 230 VAC |
| 08 | = + 24 VDC 1W |
| 09 | = + 24 VDC Earth faston |
| 11 | = + 12 VDC downward |
| 12 | = + 24 VDC downward |
| 15 | = + 24 VAC downward |
| 16 | = 110 VAC downward |
| 17 | = 230 VAC downward |
| 18 | = + 24 VDC 1W downward |
| 19 | = + 24 VDC Earth faston downward |



For dimension "A" see ordering code

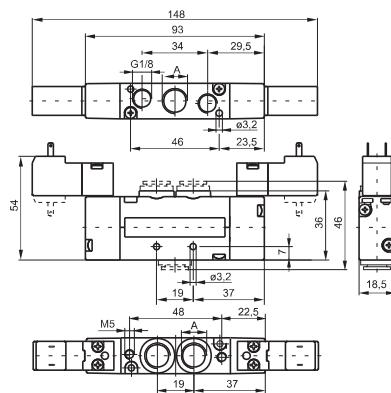
Weight 195 g



Coding: 241A.52.00.V.T

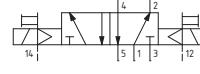
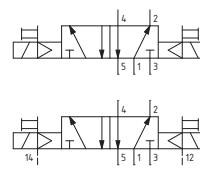
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 1.5 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|--|
| A | 1 = G1/4" |
| | 5 = G1/8" |
| | 6 = Quick fitting tube Ø6 |
| | 8 = Quick fitting tube Ø8 |
| VERSION | |
| V | 35 = Solenoid-Solenoid |
| | 24 = Solenoid external-Solenoid external |
| VOLTAGE | |
| 01 | = + 12 VDC |
| 02 | = + 24 VDC |
| 05 | = + 24 VAC |
| 06 | = 110 VAC |
| 07 | = 230 VAC |
| 08 | = + 24 VDC 1W |
| 09 | = + 24 VDC Earth faston |
| 11 | = + 12 VDC downward |
| 12 | = + 24 VDC downward |
| 15 | = + 24 VAC downward |
| 16 | = 110 VAC downward |
| 17 | = 230 VAC downward |
| 18 | = + 24 VDC 1W downward |
| 19 | = + 24 VDC Earth faston downward |



For dimension "A" see ordering code

Weight 225 g



► Pneumatic-Pneumatic 5/3

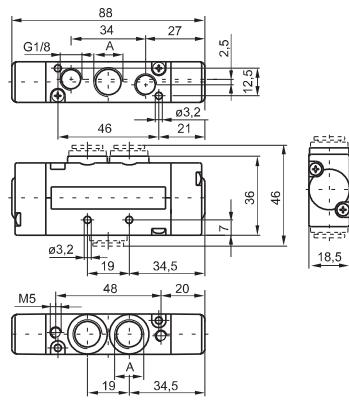
Coding: 241A.53.F.18

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 3 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 650 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

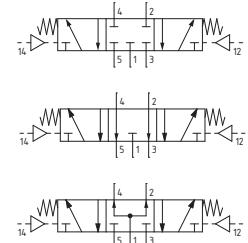
| |
|---------------------------|
| CONNECTION A |
| 1 = G1/4" |
| 5 = G1/8" |
| 6 = Quick fitting tube Ø6 |
| 8 = Quick fitting tube Ø8 |
| FUNCTION |
| 31 = Closed centres |
| 32 = Open centres |
| 33 = Pressured centres |



Weight 165 g



For dimension "A" see ordering code



► Solenoid - Solenoid 5/3

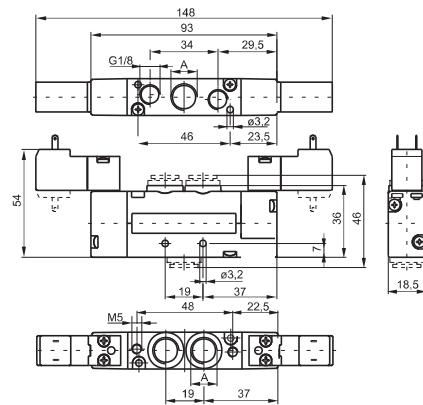
Coding: 241A.53.F.V.T

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 3 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 650 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

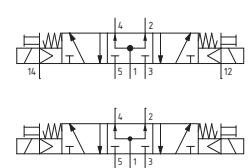
| |
|--|
| CONNECTION A |
| 1 = G1/4" |
| 5 = G1/8" |
| 6 = Quick fitting tube Ø6 |
| 8 = Quick fitting tube Ø8 |
| FUNCTION |
| 31 = Closed centres |
| 32 = Open centres |
| 33 = Pressured centres |
| VERSION |
| 24 = Solenoid external-Solenoid external |
| 35 = Solenoid-Solenoid |
| VOLTAGE |
| 01 = + 12 VDC |
| 02 = + 24 VDC |
| 05 = + 24 VAC |
| 06 = 110 VAC |
| 07 = 230 VAC |
| 08 = + 24 VDC 1W |
| 09 = + 24 VDC Earth faston |
| 11 = + 12 VDC downward |
| 12 = + 24 VDC downward |
| 15 = + 24 VAC downward |
| 16 = 110 VAC downward |
| 17 = 230 VAC downward |
| 18 = + 24 VDC 1W downward |
| 19 = + 24 VDC Earth faston downward |



Weight 235 g



For dimension "A" see ordering code





Spool type valves and solenoid valves

Series 2400 - Size 18mm LINE

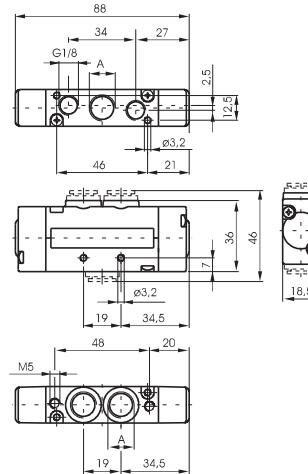
Pneumatic-Pneumatic 2 x 3/2

Coding: 241A.62.F.18

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | $\geq 1,5 + (0,2 \times \text{Inlet pressure})$ |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 450 |
| Orifice size (mm) | 7 |

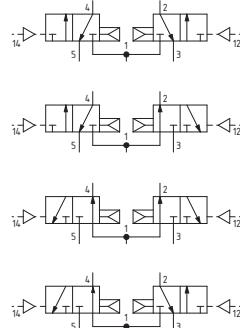
"Example: if inlet pressure is set at 5bar then pilot pressure must be at least $P_p = 1,5 + (0,2 \times 5) = 2,5\text{bar}$ "

| CONNECTION A | |
|--------------|--|
| A | 1 = G1/4" |
| | 5 = G1/8" |
| | 6 = Quick fitting tube Ø6 |
| | 8 = Quick fitting tube Ø8 |
| FUNCTION | |
| F | 44 = 2 Coils 3/2 NC |
| | 45 = 1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12) |
| | 55 = 2 Coils 3/2 NO |
| | 54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12) |



Weight 170 g

For dimension "A" see ordering code

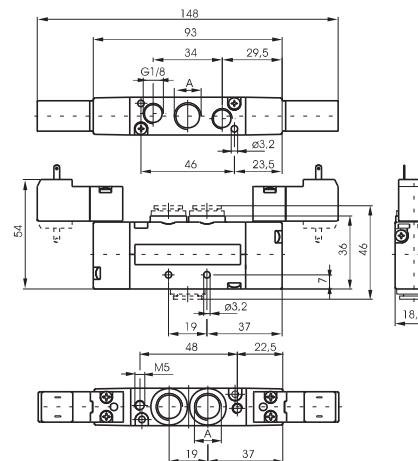


Solenoid-Solenoid 2 x 3/2

Coding: 241A.62.F.35.T

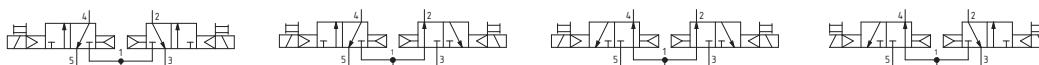
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | $\geq 1,5 + (0,2 \times \text{Inlet pressure})$ |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 450 |
| Orifice size (mm) | 7 |

"Example: if inlet pressure is set at 5bar then pilot pressure must be at least $P_p = 1,5 + (0,2 \times 5) = 2,5\text{bar}$ "



Weight 250 g

For dimension "A" see ordering code



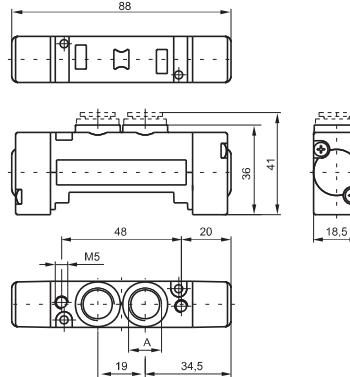
| CONNECTION A | |
|--------------|--|
| A | 1 = G1/4" |
| | 5 = G1/8" |
| | 6 = Quick fitting tube Ø6 |
| | 8 = Quick fitting tube Ø8 |
| FUNCTION | |
| F | 44 = 2 Coils NC |
| | 45 = 1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12) |
| | 55 = 2 Coils NO |
| | 54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12) |
| VOLTAGE | |
| T | 01 = + 12 VDC |
| | 02 = + 24 VDC |
| | 05 = + 24 VAC |
| | 06 = 110 VAC |
| | 07 = 230 VAC |
| | 08 = + 24 VDC 1W |
| | 09 = + 24 VDC Earth faston |
| | 11 = + 12 VDC downward |
| | 12 = + 24 VDC downward |
| | 15 = + 24 VAC downward |
| | 16 = 110 VAC downward |
| | 17 = 230 VAC downward |
| | 18 = + 24 VDC 1W downward |
| | 19 = + 24 VDC Earth faston downward |

Pneumatic - Spring

Coding: 243A.52.00.19

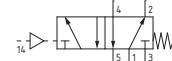
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|-------------------------|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |



Weight 105 g

For dimension "A" see ordering code

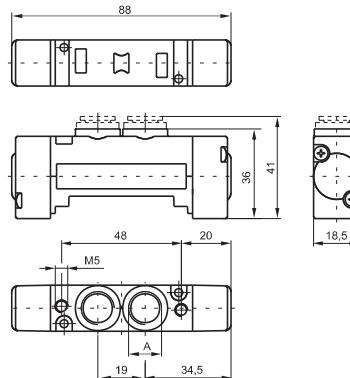


Pneumatic-Differential

Coding: 243A.52.00.16

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|-------------------------|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |



Weight 105 g

For dimension "A" see ordering code

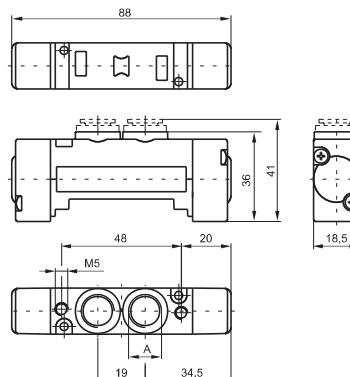


Pneumatic - Differential (External)

Coding: 243A.52.00.17

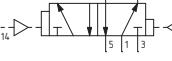
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|-------------------------|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |



Weight 105 g

For dimension "A" see ordering code





Spool type valves and solenoid valves

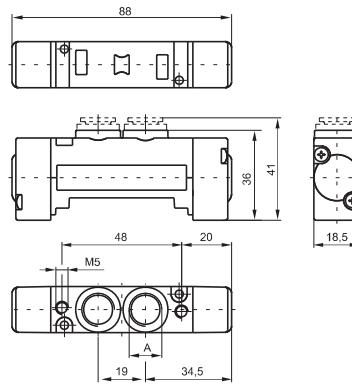
Series 2400 - Size 18mm FLAT

Pneumatic - Pneumatic

Coding: 243A.52.00.18

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 1.5 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A |
|---------------------------|
| 1 = G1/4" |
| 5 = G1/8" |
| 6 = Quick fitting tube Ø6 |
| 8 = Quick fitting tube Ø8 |



Weight 105 g

For dimension "A" see ordering code



Solenoid-Spring/Differential

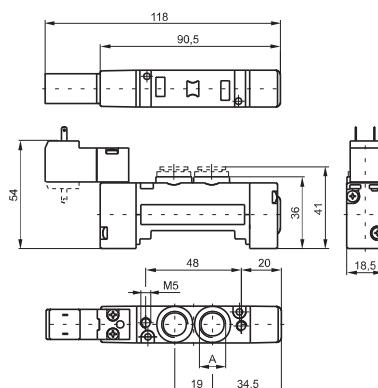
Coding: 243A.52.00.V.T

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A |
|---------------------------|
| 1 = G1/4" |
| 5 = G1/8" |
| 6 = Quick fitting tube Ø6 |
| 8 = Quick fitting tube Ø8 |

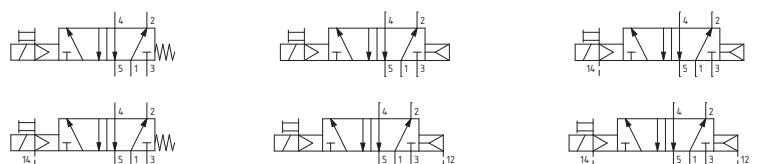
| VERSION |
|--|
| 39 = Solenoid-Spring |
| 29 = Solenoid external-Spring |
| 36 = Solenoid-Differential |
| 37 = Solenoid-Differential external |
| 26 = Solenoid external-Differential |
| 27 = Solenoid external-Differential external |

| VOLTAGE |
|-------------------------------------|
| 01 = + 12 VDC |
| 02 = + 24 VDC |
| 05 = + 24 VAC |
| 06 = 110 VAC |
| 07 = 230 VAC |
| 08 = + 24 VDC 1W |
| 09 = + 24 VDC Earth faston |
| 11 = + 12 VDC downward |
| 12 = + 24 VDC downward |
| 15 = + 24 VAC downward |
| 16 = 110 VAC downward |
| 17 = 230 VAC downward |
| 18 = + 24 VDC downward |
| 19 = + 24 VDC Earth faston downward |



Weight 140 g

For dimension "A" see ordering code

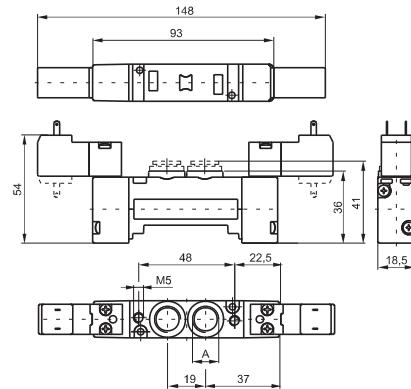


Solenoid - Solenoid

Coding: 243A.52.00.V.T

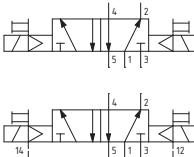
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 1.5 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|--|
| A | 1 = G1/4" |
| | 5 = G1/8" |
| | 6 = Quick fitting tube Ø6 |
| | 8 = Quick fitting tube Ø8 |
| VERSION | |
| V | 35 = Solenoid-Solenoid |
| | 24 = Solenoid external-Solenoid external |
| VOLTAGE | |
| T | 01 = + 12 VDC |
| | 02 = + 24 VDC |
| | 05 = + 24 VAC |
| | 06 = 110 VAC |
| | 07 = 230 VAC |
| | 08 = + 24 VDC 1W |
| | 09 = + 24 VDC Earth faston |
| | 11 = + 12 VDC downward |
| | 12 = + 24 VDC downward |
| | 15 = + 24 VAC downward |
| | 16 = 110 VAC downward |
| | 17 = 230 VAC downward |
| | 18 = + 24 VDC 1W downward |
| | 19 = + 24 VDC Earth faston downward |



Weight 175 g

For dimension "A" see ordering code

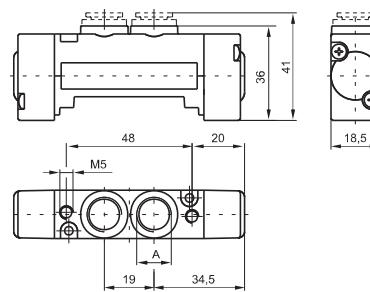


Pneumatic-Pneumatic 5/3

Coding: 243A.53.F.18

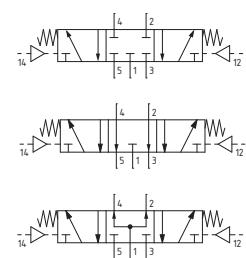
| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 3 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 650 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

| CONNECTION A | |
|--------------|---------------------------|
| A | 1 = G1/4" |
| | 5 = G1/8" |
| | 6 = Quick fitting tube Ø6 |
| | 8 = Quick fitting tube Ø8 |
| FUNCTION | |
| F | 31 = Closed centres |
| | 32 = Open centres |
| | 33 = Pressured centres |



Weight 115 g

For dimension "A" see ordering code





Spool type valves and solenoid valves

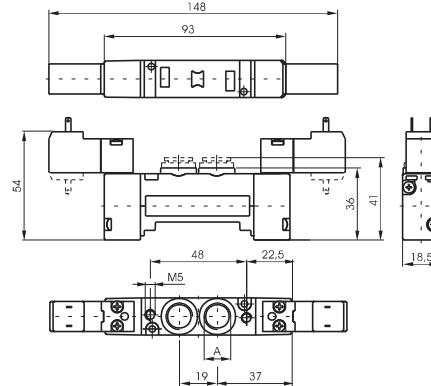
Series 2400 - Size 18mm FLAT

Solenoid - Solenoid 5/3

Coding: 243A.53.F.V.T

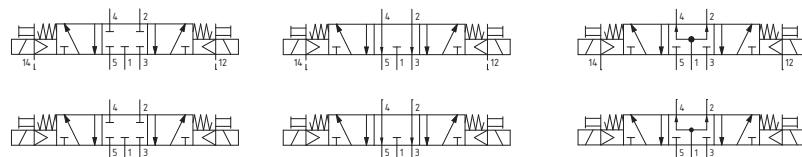
Operational characteristics

| | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 3 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 650 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |



Weight 185 g

For dimension "A" see ordering code



CONNECTION A

1 = G1/4"
5 = G1/8"
6 = Quick fitting tube Ø6
8 = Quick fitting tube Ø8

FUNCTION

31 = Closed centres
32 = Open centres
33 = Pressured centres

VERSION

24 = Solenoid external-Solenoid external
35 = Solenoid-Solenoid

VOLTAGE

01 = + 12 V DC
02 = + 24 V DC
05 = + 24 V AC
06 = 110 V AC
07 = 230 V AC
08 = + 24 VDC 1W
09 = + 24 VDC Earth faston
11 = + 12 VDC downward
12 = + 24 VAC downward
15 = + 24 VAC downward
16 = 110 VAC downward
17 = 230 VAC downward
18 = + 24 VDC 1W downward
19 = + 24 VDC Earth faston downward

T

11 = + 12 VDC downward

12 = + 24 VAC downward

15 = + 24 VAC downward

16 = 110 VAC downward

17 = 230 VAC downward

18 = + 24 VDC 1W downward

19 = + 24 VDC Earth faston downward

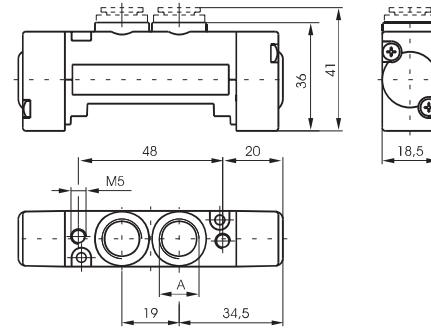
Pneumatic-Pneumatic 2 x 3/2

Coding: 243A.62.F.18

Operational characteristics

| | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | $\geq 1.5 + (0.2 \times \text{Inlet pressure})$ |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 450 |
| Orifice size (mm) | 7 |

"Example: if inlet pressure is set at 5bar then pilot pressure must be at least $P_p = 1.5 + (0.2 \times 5) = 2.5\text{bar}$ "



Weight 110 g

For dimension "A" see ordering code

CONNECTION A

1 = G1/4"
5 = G1/8"
6 = Quick fitting tube Ø6
8 = Quick fitting tube Ø8

FUNCTION

44 = 2 Coils 3/2 NC
45 = 1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12)
55 = 2 Coils 3/2 NO
54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12)

11 = + 12 VDC downward

12 = + 24 VAC downward

15 = + 24 VAC downward

16 = 110 VAC downward

17 = 230 VAC downward

18 = + 24 VDC 1W downward

19 = + 24 VDC Earth faston downward

20 = + 24 VDC Earth faston downward

21 = + 24 VDC Earth faston downward

22 = + 24 VDC Earth faston downward

23 = + 24 VDC Earth faston downward

24 = + 24 VDC Earth faston downward

25 = + 24 VDC Earth faston downward

26 = + 24 VDC Earth faston downward

27 = + 24 VDC Earth faston downward

28 = + 24 VDC Earth faston downward

29 = + 24 VDC Earth faston downward

30 = + 24 VDC Earth faston downward

31 = + 24 VDC Earth faston downward

32 = + 24 VDC Earth faston downward

33 = + 24 VDC Earth faston downward

34 = + 24 VDC Earth faston downward

35 = + 24 VDC Earth faston downward

36 = + 24 VDC Earth faston downward

37 = + 24 VDC Earth faston downward

38 = + 24 VDC Earth faston downward

39 = + 24 VDC Earth faston downward

40 = + 24 VDC Earth faston downward

41 = + 24 VDC Earth faston downward

42 = + 24 VDC Earth faston downward

43 = + 24 VDC Earth faston downward

44 = + 24 VDC Earth faston downward

45 = + 24 VDC Earth faston downward

46 = + 24 VDC Earth faston downward

47 = + 24 VDC Earth faston downward

48 = + 24 VDC Earth faston downward

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50 = + 24 VDC Earth faston downward

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148 = + 24 VDC Earth faston downward

149 = + 24 VDC Earth faston downward

150 = + 24 VDC Earth faston downward

151 = + 24 VDC Earth faston downward

152 = + 24 VDC Earth faston downward

153 = + 24 VDC Earth faston downward

154 = + 24 VDC Earth faston downward

155 = + 24 VDC Earth faston downward

156 = + 24 VDC Earth faston downward

157 = + 24 VDC Earth faston downward

158 = + 24 VDC Earth faston downward

159 = + 24 VDC Earth faston downward

160 = + 24 VDC Earth faston downward

161 = + 24 VDC Earth faston downward

162 = + 24 VDC Earth faston downward

163 = + 24 VDC Earth faston downward

164 = + 24 VDC Earth faston downward

165 = + 24 VDC Earth faston downward

166 = + 24 VDC Earth faston downward

167 = + 24 VDC Earth faston downward

168 = + 24 VDC Earth faston downward

169 = + 24 VDC Earth faston downward

170 = + 24 VDC Earth faston downward

171 = + 24 VDC Earth faston downward

172 = + 24 VDC Earth faston downward

173 = + 24 VDC Earth faston downward

174 = + 24 VDC Earth faston downward

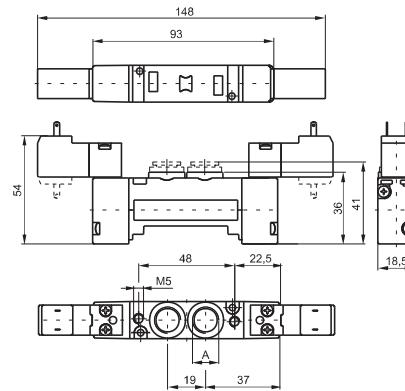
175 = + 24 VDC Earth faston downward

► Solenoid-Solenoid 2 x 3/2

Coding: 243A.62.F.35.T

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | $\geq 1,5 + (0,2 \times \text{Inlet pressure})$ |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p = 1$ (NL/min) | 450 |
| Orifice size (mm) | 7 |

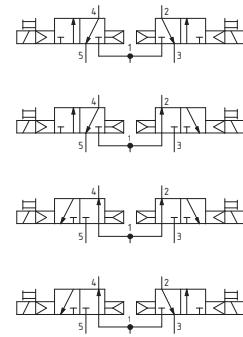
"Example: if inlet pressure is set at 5bar then pilot pressure must be at least $P_p = 1,5 + (0,2 \times 5) = 2,5$ bar"



Weight 190 g

For dimension "A" see ordering code

| CONNECTION A | |
|--------------|---|
| 1 | = G1/4" |
| 5 | = G1/8" |
| 6 | = Quick fitting tube Ø6 |
| 8 | = Quick fitting tube Ø8 |
| FUNCTION | |
| 44 | = 2 Coils 3/2 NC |
| 45 | = 1 Coil 3/2 NC (14) + 1 Coil 3/2 NC (12) |
| 55 | = 2 Coils 3/2 NO |
| 54 | = 1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12) |
| VOLTAGE | |
| 01 | = + 12 V DC |
| 02 | = + 24 V DC |
| 05 | = + 24 V AC |
| 06 | = 110 VAC |
| 07 | = 230 VAC |
| 08 | = + 24 VDC 1W |
| 09 | = + 24 VDC Earth faston |
| 11 | = + 12 VDC downward |
| 12 | = + 24 VDC downward |
| 15 | = + 24 VAC downward |
| 16 | = 110 VAC downward |
| 17 | = 230 VAC downward |
| 18 | = + 24 VDC 1W downward |
| 19 | = + 24 VDC Earth faston downward |





Spool type valves and solenoid valves

Series 2400 - Accessories

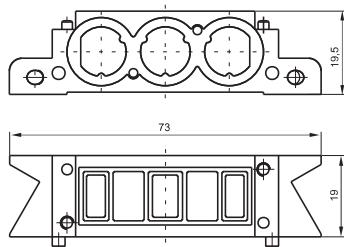
1 AIR DISTRIBUTION

► Modular base



Coding: 2430.0V

| VERSION |
|--------------------------------|
| 01 = Modular base |
| 06 = Supply and exhaust closed |
| 07 = Supply closed |
| 08 = Exhaust closed |



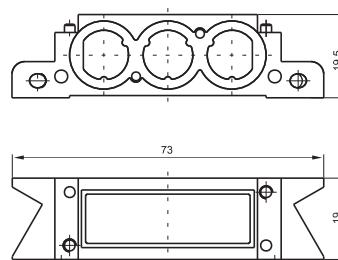
Weight 85 g

2430.0V

► Blank base



Coding: 2430.05

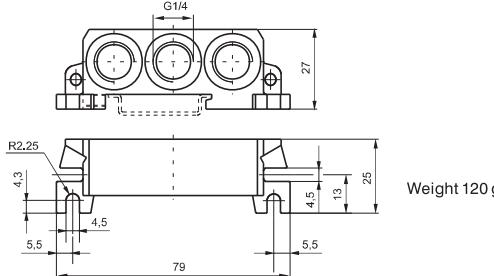


Weight 85 g

► Right inlet base



Coding: 2430.02



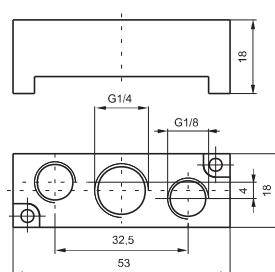
Weight 120 g

► Intermediate air intake



Coding: 2430.10

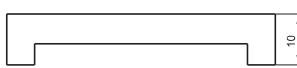
Weight 30 g
to be assembled instead of a valve



► Closing plate



Coding: 2430.00



Weight 20 g

► Diaphragm plug



Coding: 2430.17

Weight 5 g

Pneumatic - Spring

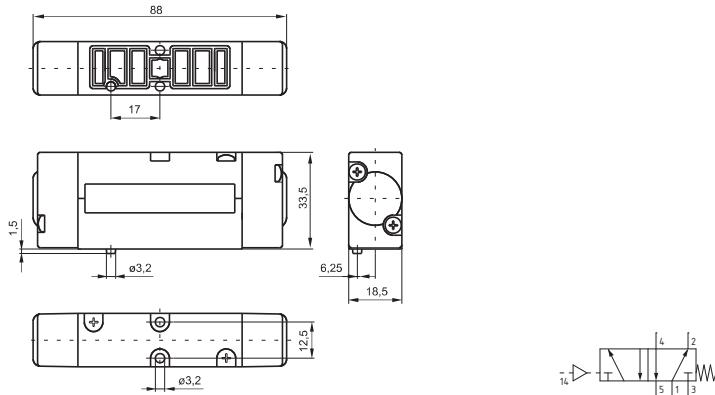
Coding: 2445.52.00.19

Operational characteristics

| | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 550 |
| Orifice size (mm) | 5 |



Weight 155 g



Pneumatic-Differential

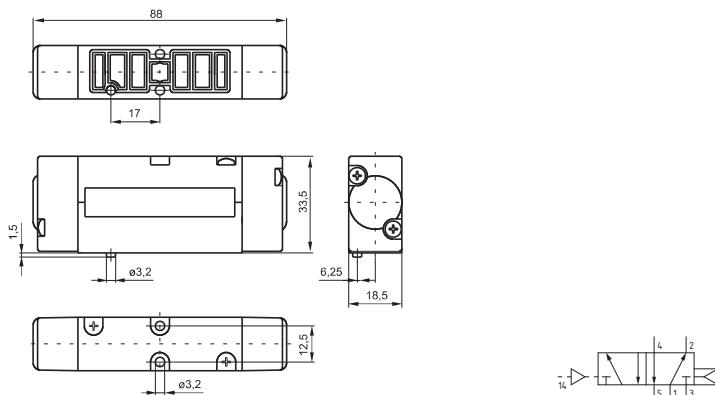
Coding: 2445.52.00.16

Operational characteristics

| | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 550 |
| Orifice size (mm) | 5 |



Weight 155 g



Pneumatic - Differential (External)

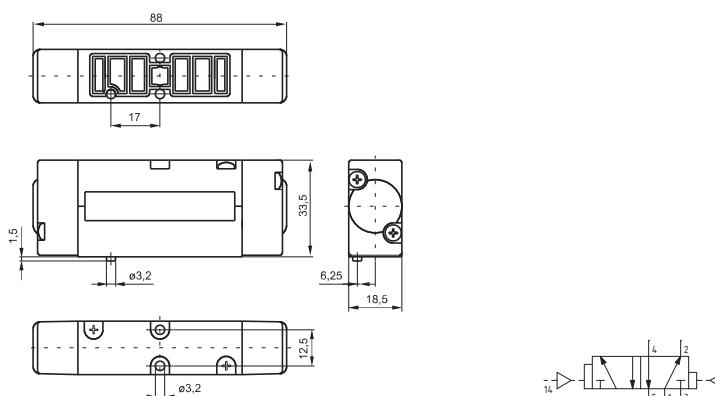
Coding: 2445.52.00.17

Operational characteristics

| | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 550 |
| Orifice size (mm) | 5 |



Weight 155 g





Spool type valves and solenoid valves

Series 2400 - Size 18mm VDMA

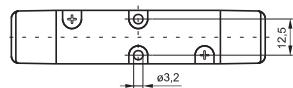
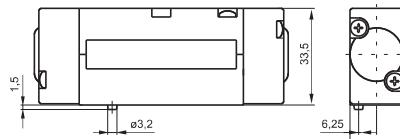
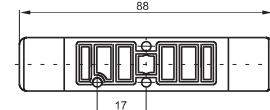
1

AIR DISTRIBUTION

Pneumatic - Pneumatic

Coding: 2445.52.00.18

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 1.5 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 550 |
| Orifice size (mm) | 5 |

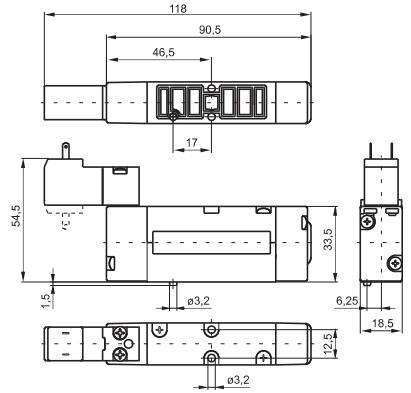


Weight 155 g

Solenoid-Spring/Differential

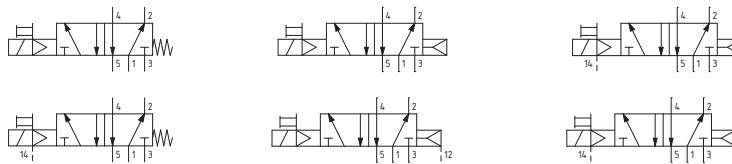
Coding: 244C.52.00.V.T

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 2 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 550 |
| Orifice size (mm) | 5 |



| | |
|---|--|
| C | TYPE ELECTROPILOT EXHAUST |
| | 1 = on base (only for self feeding valves) |
| V | 5 = on pilot (for all version) |
| | VERSION |
| | 39 = Solenoid-Spring |
| | 29 = Solenoid external-Spring |
| | 36 = Solenoid-Differential |
| | 37 = Solenoid-Differential external |
| | 26 = Solenoid external-Differential |
| | 27 = Solenoid external-Differential external |
| | VOLTAGE |
| | 01 = + 12 V DC |
| T | 02 = + 24 V DC |
| | 05 = + 24 VAC |
| | 06 = 110 VAC |
| | 07 = 230 VAC |
| | 08 = + 24 VDC 1W |
| | 09 = + 24 VDC Earth faston |
| | 11 = + 12 VDC downward |
| | 12 = + 24 VDC downward |
| | 15 = + 24 VAC downward |
| | 16 = 110 VAC downward |
| | 17 = 230 VAC downward |
| | 18 = + 24 VDC 1W downward |
| | 19 = + 24 VDC Earth faston downward |

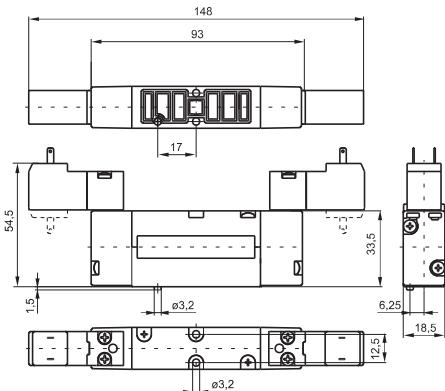
Weight 190 g



Solenoid - Solenoid

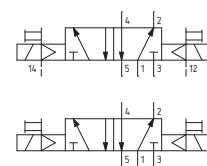
Coding: 244C.52.00.V.T

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 1.5 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NL/min) | 550 |
| Orifice size (mm) | 5 |



| | |
|---|--|
| C | TYPE ELECTROPILOT EXHAUST |
| | 1 = on base (only for self feeding valves) |
| V | 5 = on pilot (for all version) |
| | VERSION |
| | 24 = Solenoid external-Solenoid external |
| | 35 = Solenoid-Solenoid |
| | VOLTAGE |
| | 01 = + 12 VDC |
| | 02 = + 24 VDC |
| | 05 = + 24 VAC |
| | 06 = 110 VAC |
| | 07 = 230 VAC |
| T | 08 = + 24 VDC 1W |
| | 09 = + 24 VDC Earth faston |
| | 11 = + 12 VDC downward |
| | 12 = + 24 VDC downward |
| | 15 = + 24 VAC downward |
| | 16 = 110 VAC downward |
| | 17 = 230 VAC downward |
| | 18 = + 24 VDC 1W downward |
| | 19 = + 24 VDC Earth faston downward |

Weight 225 g





Spool type valves and solenoid valves

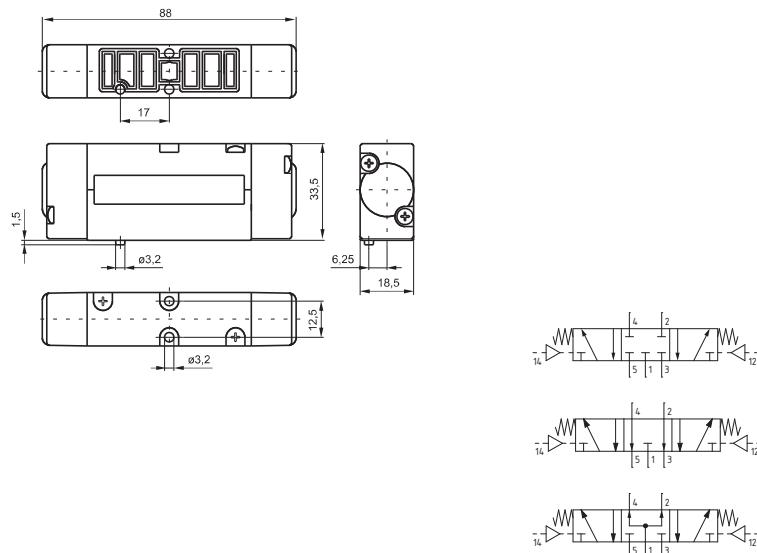
Series 2400 - Size 18mm VDMA

Pneumatic-Pneumatic 5/3

Coding: 244C.53.F.18

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 3 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 550 |
| Orifice size (mm) | 5 |

| | |
|----------|--|
| C | TYPE ELECTROPILOT EXHAUST |
| 1 | = on base (only for self feeding valves) |
| 5 | = on pilot (for all version) |
| F | FUNCTION |
| 31 | = Closed centres |
| 32 | = Open centres |
| 33 | = Pressured centres |



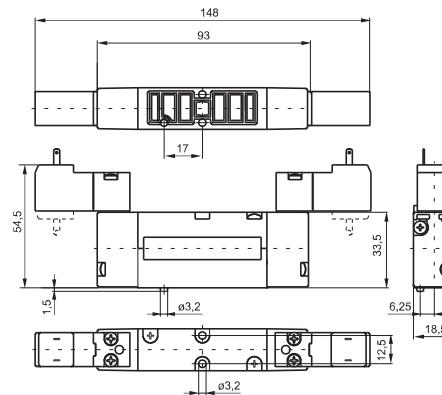
Weight 165 g

Solenoid - Solenoid 5/3

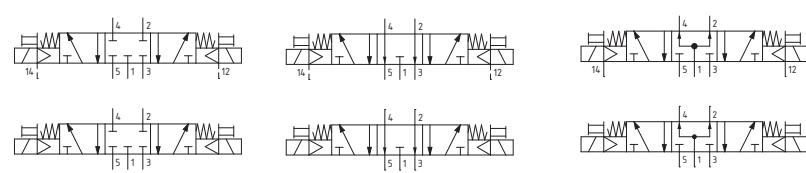
Coding: 244C.53.F.V.T

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | 3 |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p=1$ (NI/min) | 550 |
| Orifice size (mm) | 5 |

| | |
|----------|--|
| C | TYPE ELECTROPILOT EXHAUST |
| 1 | = on base (only for self feeding valves) |
| 5 | = on pilot (for all version) |
| F | FUNCTION |
| 31 | = Closed centres |
| 32 | = Open centres |
| 33 | = Pressured centres |
| V | VERSION |
| 24 | = Solenoid external-Solenoid external |
| 35 | = Solenoid-Solenoid |
| T | VOLTAGE |
| 01 | = + 12 VDC |
| 02 | = + 24 VDC |
| 05 | = + 24 VAC |
| 06 | = 110 VAC |
| 07 | = 230 VAC |
| 08 | = + 24 VDC 1W |
| 09 | = + 24 VDC Earth faston |
| 11 | = + 12 VDC downward |
| 12 | = + 24 VDC downward |
| 15 | = + 24 VAC downward |
| 16 | = 110 VAC downward |
| 17 | = 230 VAC downward |
| 18 | = + 24 VDC 1W downward |
| 19 | = + 24 VDC Earth faston downward |



Weight 235 g



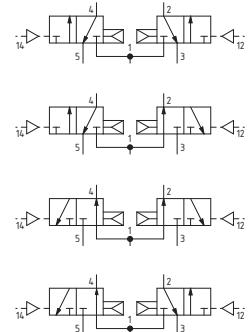
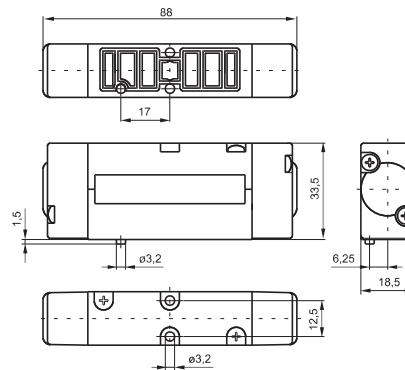
► Pneumatic-Pneumatic 2 x 3/2

Coding: 2445.62. F.18

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | $\geq 1,5 + (0,2 \times \text{Inlet pressure})$ |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p = 1$ (NL/min) | 450 |
| Orifice size (mm) | 5 |

| FUNCTION |
|--|
| 44 = 2 Coils 3/2 NC |
| 45 = 1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12) |
| 55 = 2 Coils 3/2 NO |
| 54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12) |

"Example: if inlet pressure is set at 5bar then pilot pressure must be at least $P_p = 1,5 + (0,2 \times 5) = 2,5$ bar"



Weight 170 g

► Solenoid-Solenoid 2 x 3/2

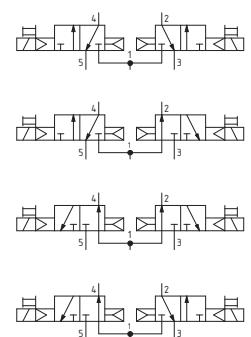
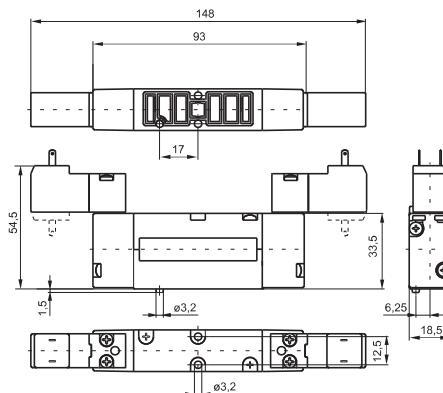
Coding: 2445.62. F.35. T

| Operational characteristics | |
|---|--|
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max. working pressure (bar) | 10 |
| Pilot pressure (bar) | $\geq 1,5 + (0,2 \times \text{Inlet pressure})$ |
| Temperature °C | -5 ... +50 |
| Flow rate at 6 bar with $\Delta p = 1$ (NL/min) | 450 |
| Orifice size (mm) | 5 |

| FUNCTION |
|--|
| 44 = 2 Coils 3/2 NC |
| 45 = 1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12) |
| 55 = 2 Coils 3/2 NO |
| 54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12) |

| VOLTAGE |
|--------------------------------------|
| 01 = + 12 V DC |
| 02 = + 24 V DC |
| 05 = + 24 V AC |
| 06 = 110 V AC |
| 07 = 230 V AC |
| 08 = + 24 V DC 1W |
| 09 = + 24 V DC Earth faston |
| 11 = + 12 V DC downward |
| 12 = + 24 V DC downward |
| 15 = + 24 V AC downward |
| 16 = 110 V AC downward |
| 17 = 230 V AC downward |
| 18 = + 24 V DC 1W downward |
| 19 = + 24 V DC Earth faston downward |

"Example: if inlet pressure is set at 5bar then pilot pressure must be at least $P_p = 1,5 + (0,2 \times 5) = 2,5$ bar"



Weight 250 g

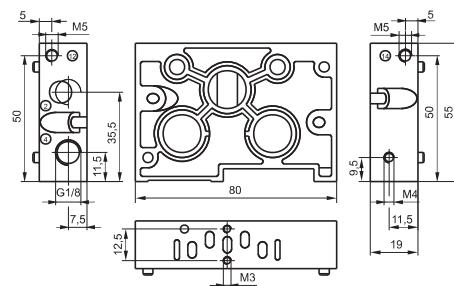


Spool type valves and solenoid valves Series 2400 - Accessories

1

AIR DISTRIBUTION

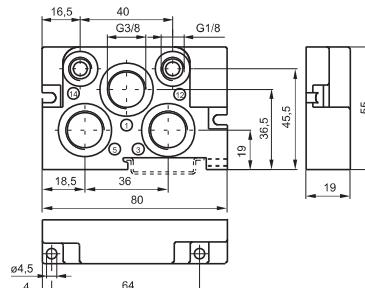
► Modular base



Coding: 2440.0V

| V | VERSION |
|----|---------------------------|
| | 01 = Modular base |
| 06 | Supply and exhaust closed |
| 07 | Supply closed |
| 08 | Exhaust closed |

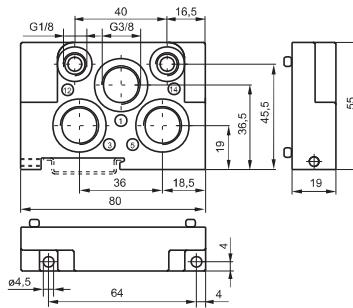
► Right inlet base



Coding: 2440.02

Weight 110 g

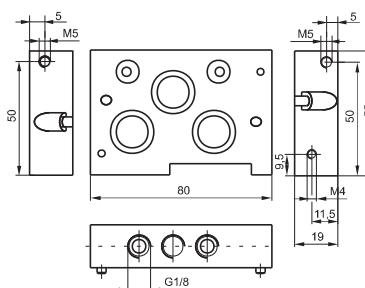
► Left inlet base



Coding: 2440.03

Weight 110 g

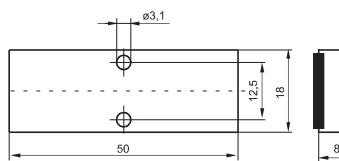
► Intermediate air intake



Coding: 2440.10

Weight 185 g

► Closing plate



Coding: 2440.00

Weight 25 g

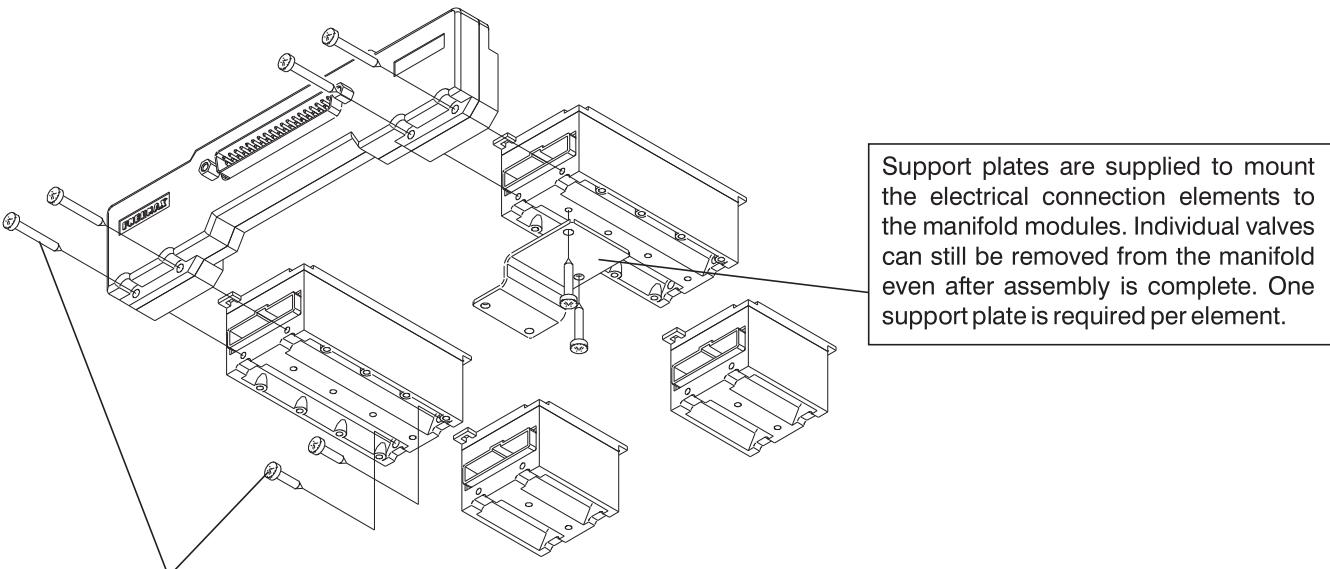
► Diaphragm plug



Coding: 2440.17

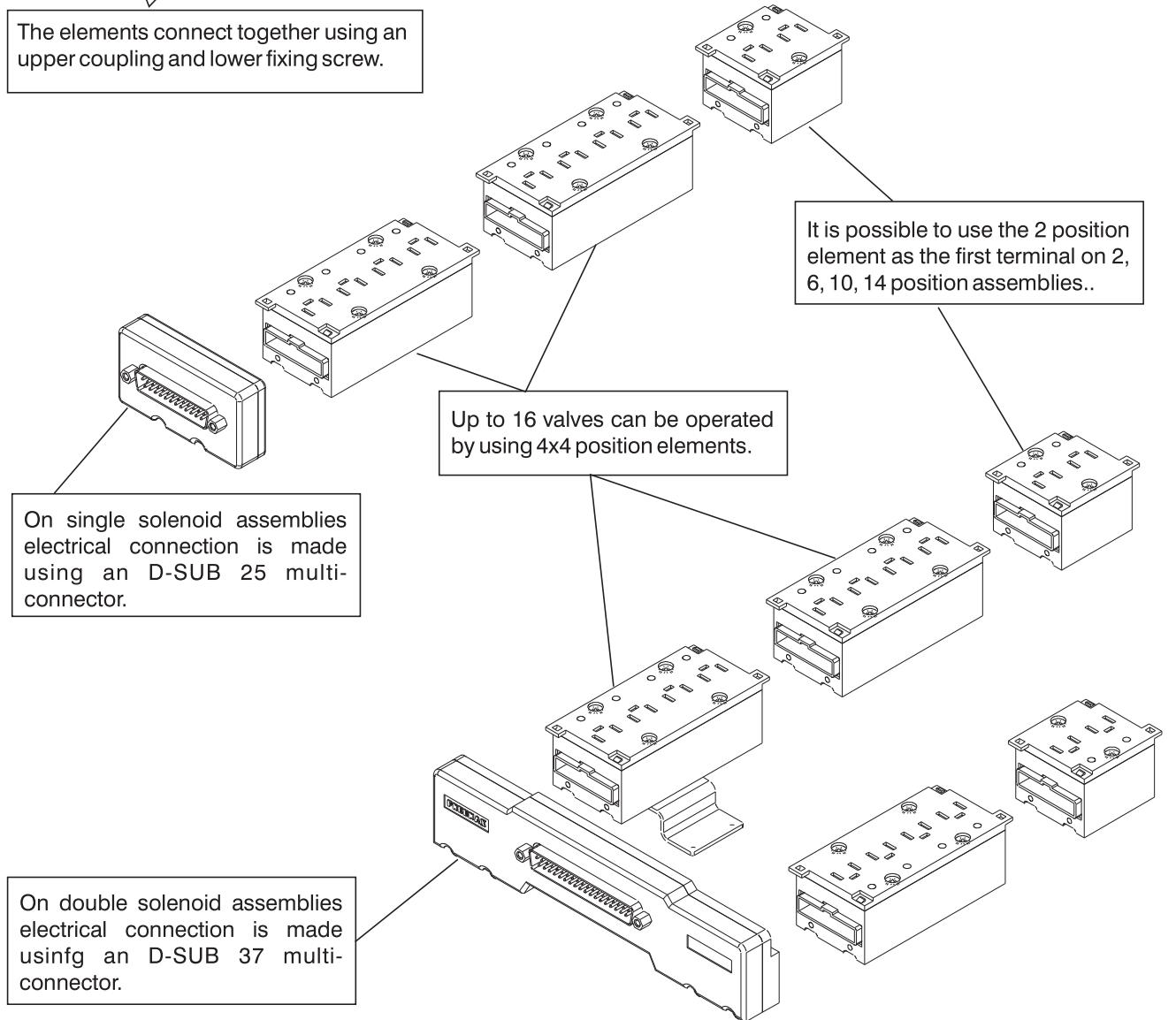
The integral electrical design for the series 2400 valve is extremely flexible, allowing the production of pre-wired solenoid valve manifolds, the configuration of which can be determined at the point of assembly. The 24 VDC, 12 VDC (equivalent PNP) and 24 VAC* modules are available with 2 or 4 positions.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

* Attention : If the working tension is 24 VAC DO NOT using modules with protection diode



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.



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

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

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

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



Spool type valves and solenoid valves

Series 2400 - Multi-pin connections

1

AIR DISTRIBUTION

Module for connections, 2 positions



Coding: 2400.02.ⓧ

| VERSION | |
|---------|--------------------------------------|
| ⓧ | 00 = Left IP40-PNP |
| 02 | Left IP40-PNP with protection diode |
| 10 | Left IP65-PNP |
| 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 |

Weight 30 g

Note: with protection diode only direct current (V DC) is available

Module for connections, 4 positions



Coding: 2400.04.ⓧ

| VERSION | |
|---------|--------------------------------------|
| ⓧ | 00 = Left IP40-PNP |
| 02 | Left IP40-PNP with protection diode |
| 10 | Left IP65-PNP |
| 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 |

Weight 50 g

Note: with protection diode only direct current (V DC) is available

Connectors 25 poles



Coding: 2400.25.10

Connectors 37 poles



Coding: 2400.37.10

Weight 40 g

The IP65 protection is obtained by IP65 Pneumax cable

Weight 120 g

The IP65 protection is obtained by IP65 Pneumax cable

Plug



Coding: 2400.00

Closing plate electrical positions



Coding: 2400.15.00

Weight 5 g

Weight 2 g

VDMA support plate



Coding: 2440.50

Weight 20 g

FLAT support plate



Coding: 2430.50

Weight 20 g

4 positions box with 25 contacts connector



Coding: 2400.04.25

15mm male connector with 2 metres cable



Coding: 2400.15.02

Weight 65 g

Weight 98 g

In line cable complete with connector, IP40



Coding: 2400.ⓧ.L.00

| CONNECTOR | |
|--------------|---------------|
| ⓧ | 25 = 25 poles |
| 37 | 37 poles |
| CABLE LENGTH | |
| ⓧ | 03 = 3 meters |
| 05 | 5 meters |
| 10 | 10 meters |

Cable complete with connector, 25 Poles, IP65



Coding: 2300.25.L.ⓧ

| CABLE LENGTH | |
|--------------|------------------|
| ⓧ | 03 = 3 meters |
| 05 | 5 meters |
| 10 | 10 meters |
| CONNECTOR | |
| ⓧ | 10 = Stand alone |
| 90 | 90° Angle |

Cable complete with connector, 37 Poles, IP65



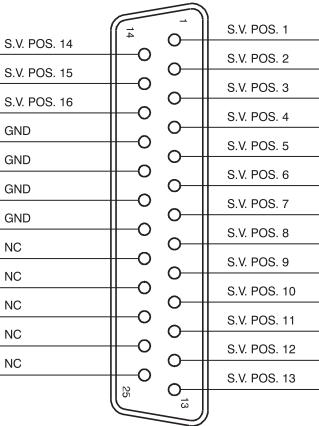
Coding: 2400.37.L.ⓧ

| CABLE LENGTH | |
|--------------|------------------|
| ⓧ | 03 = 3 meters |
| 05 | 5 meters |
| 10 | 10 meters |
| CONNECTOR | |
| ⓧ | 10 = Stand alone |
| 90 | 90° Angle |

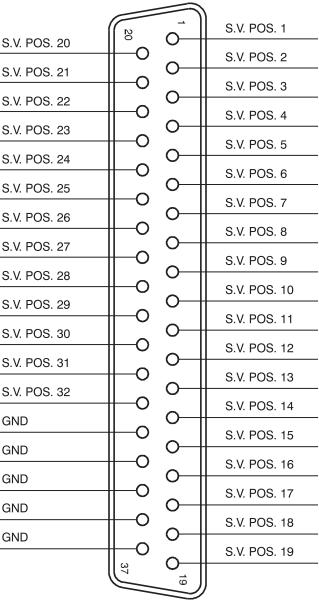
Spool type valves and solenoid valves Series 2400 - Electrical connections



**SUB-D 25 POLES
CONNECTOR**



**SUB-D 37 POLES
CONNECTOR**



AIR DISTRIBUTION