



## 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 (polytetrafluorethylene)
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 V DC  
02 = miniature sol. + 24 V DC  
05 = miniature sol. + 24 V AC  
06 = miniature sol. 110 V AC  
07 = miniature sol. 230 V AC  
08 = miniature sol. + 24 V DC 1W  
09 = miniature sol. + 24 V DC Earth faston

#### Coil downward code

11 = miniature sol. + 12 V DC  
12 = miniature sol. + 24 V DC  
15 = miniature sol. + 24 V AC  
16 = miniature sol. 110 V AC  
17 = miniature sol. 230 V AC  
18 = miniature sol. + 24 V DC 1W  
19 = miniature sol. + 24 V DC Earth faston

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

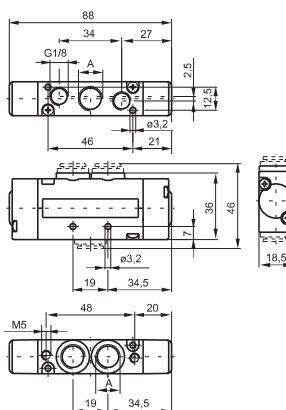
#### CONNECTION A

1 = G1/4"

5 = G1/8"

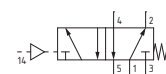
6 = Quick fitting tube Ø6

8 = Quick fitting tube Ø8



Weight 155 g

For dimension "A" see ordering code



### Pneumatic-Differential

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

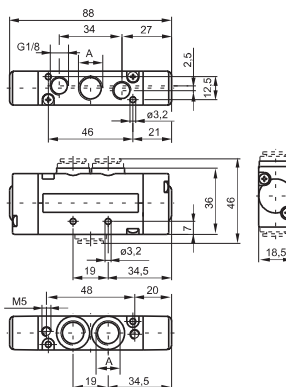
#### CONNECTION A

1 = G1/4"

5 = G1/8"

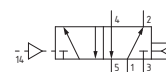
6 = Quick fitting tube Ø6

8 = Quick fitting tube Ø8



Weight 155 g

For dimension "A" see ordering code

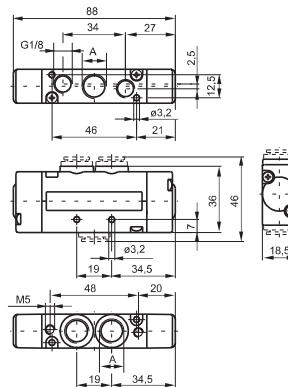


## Pneumatic - Differential (External)

Coding: 241A.52.00.17

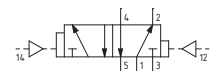
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	2
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	800
Orifice size (mm)	7
Pilot ports size	M5

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

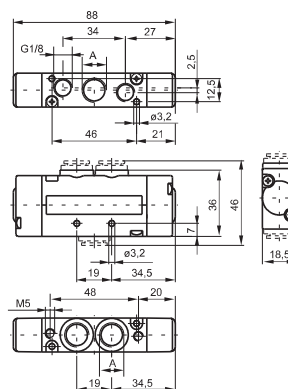


## Pneumatic - Pneumatic

Coding: 241A.52.00.18

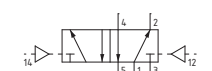
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	1.5
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	800
Orifice size (mm)	7
Pilot ports size	M5

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

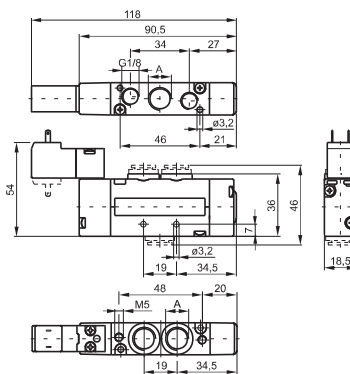
1 = G1/4"  
5 = G1/8"  
6 = Quick fitting tube Ø6  
8 = Quick fitting tube Ø8

### VERSION

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

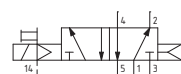
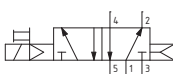
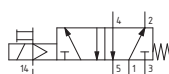
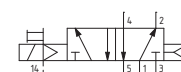
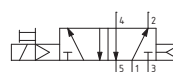
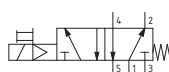
### VOLTAGE

01 = + 12 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



For dimension "A" see ordering code

Weight 195 g



## Solenoid - Solenoid

### 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

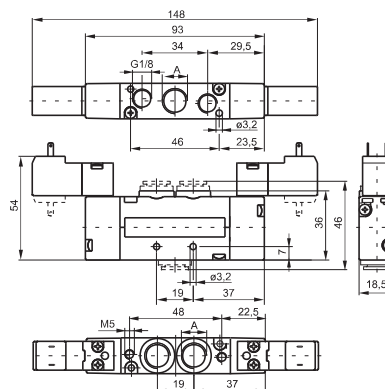
1 = G1/4"  
5 = G1/8"  
6 = Quick fitting tube Ø6  
8 = Quick fitting tube Ø8

### VERSION

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

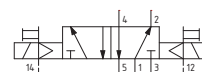
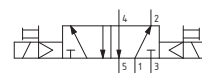
### VOLTAGE

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



For dimension "A" see ordering code

Weight 225 g

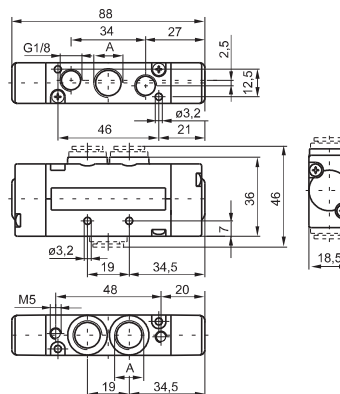


## Pneumatic-Pneumatic 5/3

Coding: 241A.53.F.18

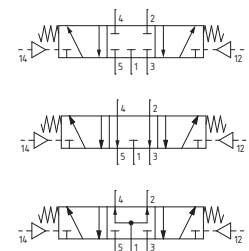
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p = 1$ (l/min)	650
Orifice size (mm)	7
Pilot ports size	M5

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



Weight 165 g

For dimension "A" see ordering code

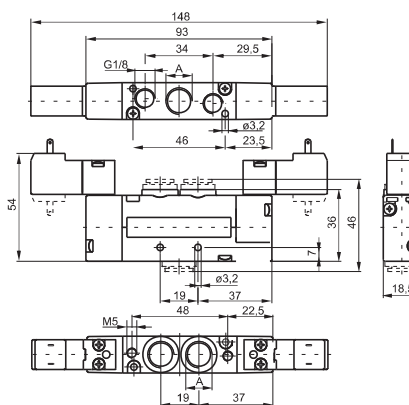


## Solenoid - Solenoid 5/3

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

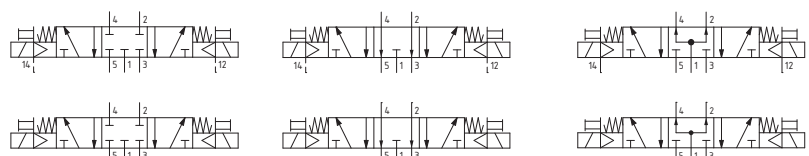
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p = 1$ (l/min)	650
Orifice size (mm)	7
Pilot ports size	M5

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



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: 241 **A**.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  $Pp = 1,5 + (0,2 \times 5) = 2,5 \text{ bar}$

#### CONNECTION A

1 = G1/4"

**A** 5 = G1/8"

6 = Quick fitting tube Ø6

8 = Quick fitting tube Ø8

#### FUNCTION

**44** = 2 Coils 3/2 NC

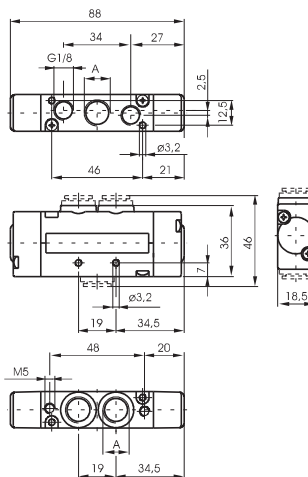
**45** = 1 Coil 3/2 NC (14) + 1 Coil 3/2

**F** NO (12)

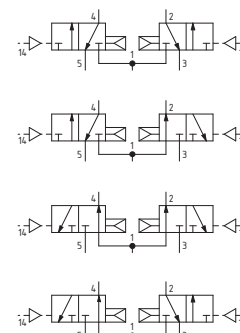
**55** = 2 Coils 3/2 NO

**54** = 1 Coil 3/2 NO (14) + 1 Coil 3/2

NC (12)



For dimension "A" see ordering code



Weight 170 g

### Solenoid-Solenoid 2 x 3/2

Coding: 241 **A**.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  $Pp = 1,5 + (0,2 \times 5) = 2,5 \text{ bar}$

#### CONNECTION A

1 = G1/4"

**A** 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

**F** 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

**T** **09** = + 24 V DC Earth faston

**11** = + 12 V DC downward

**12** = + 24 V DC downward

**15** = + 24 V AC downward

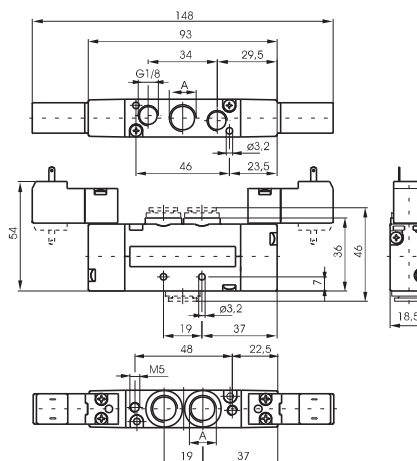
**16** = 110 V AC downward

**17** = 230 V AC downward

**18** = + 24 V DC 1W downward

**19** = + 24 V DC Earth faston

downward



For dimension "A" see ordering code



Weight 250 g

## Pneumatic - Spring

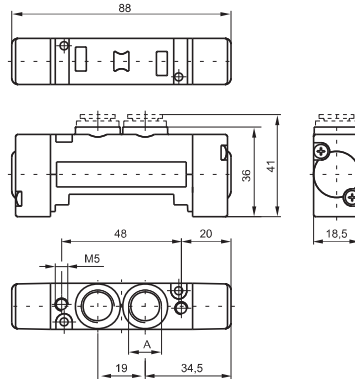
Coding: 243A.52.00.19

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 $\Delta p=1$ (NI/min)	800
Orifice size (mm)	7
Pilot ports size	M5

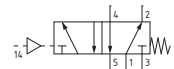
CONNECTION A
1 = G1/4"
5 = G1/8"
6 = Quick fitting tube Ø6
8 = Quick fitting tube Ø8



Weight 105 g



For dimension 'A' see ordering code



## Pneumatic-Differential

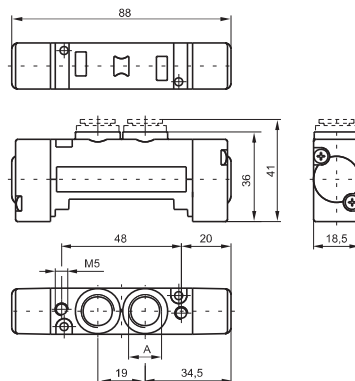
Coding: 243A.52.00.16

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 $\Delta p=1$ (NI/min)	800
Orifice size (mm)	7
Pilot ports size	M5

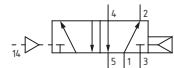
CONNECTION A
1 = G1/4"
5 = G1/8"
6 = Quick fitting tube Ø6
8 = Quick fitting tube Ø8



Weight 105 g



For dimension 'A' see ordering code



## Pneumatic - Differential (External)

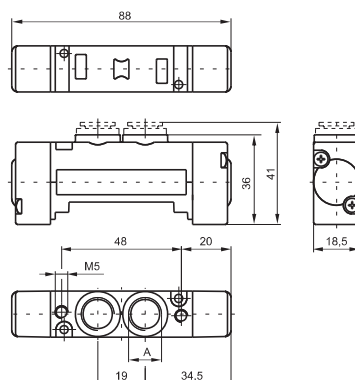
Coding: 243A.52.00.17

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 $\Delta p=1$ (NI/min)	800
Orifice size (mm)	7
Pilot ports size	M5

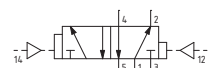
CONNECTION A
1 = G1/4"
5 = G1/8"
6 = Quick fitting tube Ø6
8 = Quick fitting tube Ø8



Weight 105 g



For dimension 'A' see ordering code







# Spool type valves and solenoid valves Series 2400 - Size 18mm FLAT

## Pneumatic - Pneumatic

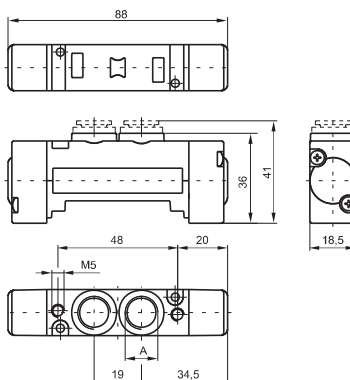
Coding: 243A.52.00.18

### 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

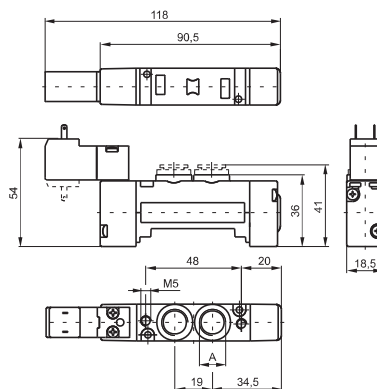
1 = G1/4"  
5 = G1/8"  
6 = Quick fitting tube Ø6  
8 = Quick fitting tube Ø8

### VERSION

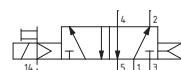
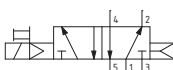
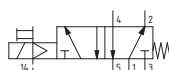
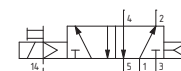
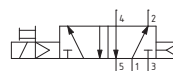
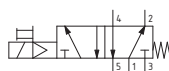
39 = Solenoid-Spring  
29 = Solenoid external-Spring  
36 = Solenoid-Differential  
37 = Solenoid-Differential external  
26 = Solenoid external-Differential  
27 = Solenoid external-Differential external

### VOLTAGE

01 = + 12 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



For dimension "A" see ordering code



Weight 140 g

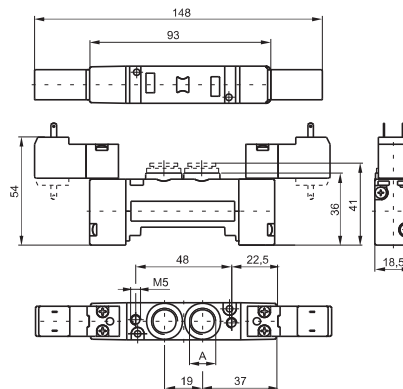


## Solenoid - Solenoid

Coding: 243A.52.00.V.T

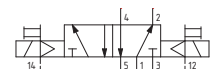
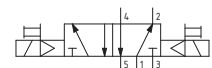
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	1.5
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	800
Orifice size (mm)	7
Pilot ports size	M5

A	CONNECTION A
	1 = G1/4"
	5 = G1/8"
	6 = Quick fitting tube Ø6
V	VERSION
	35 = Solenoid-Solenoid
	24 = Solenoid external-Solenoid external
	VOLTAGE
T	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



Weight 175 g

For dimension "A" see ordering code

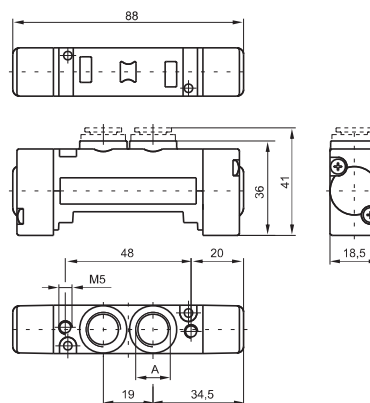


## Pneumatic-Pneumatic 5/3

Coding: 243A.53.F.18

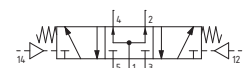
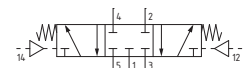
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	650
Orifice size (mm)	7
Pilot ports size	M5

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



Weight 115 g

For dimension "A" see ordering code





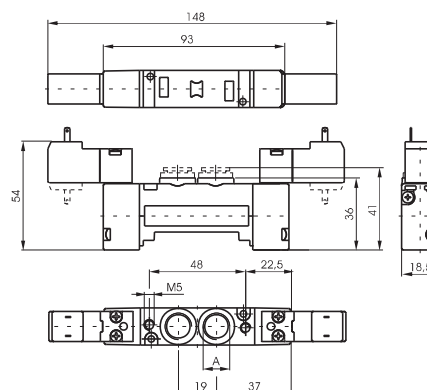
# Spool type valves and solenoid valves Series 2400 - Size 18mm FLAT

## Solenoid - Solenoid 5/3

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

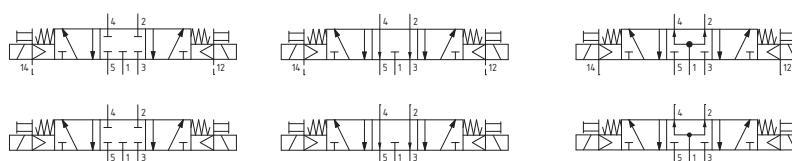
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	650
Orifice size (mm)	7
Pilot ports size	M5

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



Weight 185 g

For dimension "A" see ordering code



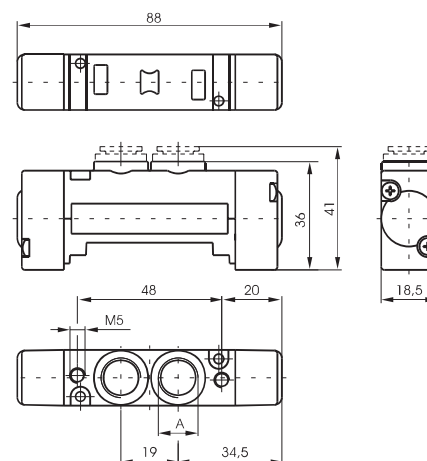
## Pneumatic-Pneumatic 2 x 3/2

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

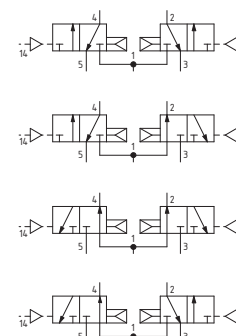
A	CONNECTION A
	1 = G1/4"
	5 = G1/8"
	6 = Quick fitting tube Ø6
	8 = Quick fitting tube Ø8
F	FUNCTION
	44 = 2 Coils 3/2 NC
	45 = 1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12)
	55 = 2 Coils 3/2 NO
	54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12)

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



Weight 110 g

For dimension "A" see ordering code

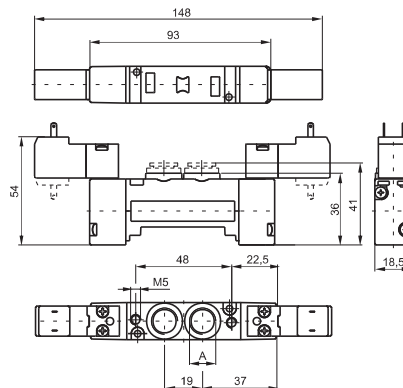


## Solenoid-Solenoid 2 x 3/2

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 $\Delta p = 1$ (l/min)	450
Orifice size (mm)	7

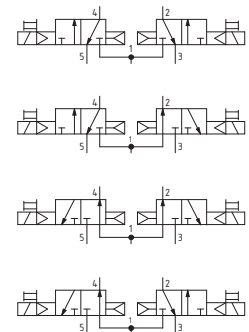
\*Example: if inlet pressure is set at 5bar then pilot pressure must be at least  $P_p = 1,5 + (0,2 \times 5) = 2,5 \text{ bar}$



Weight 190 g

For dimension "A" see ordering code

A	CONNECTION A
	1 = G1/4"
	5 = G1/8"
	6 = Quick fitting tube Ø6
F	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
T	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

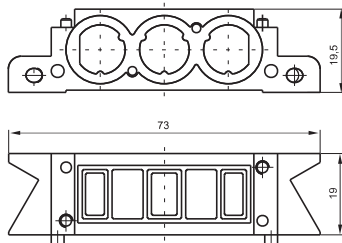


**Modular base**

Coding: 2430.✓



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

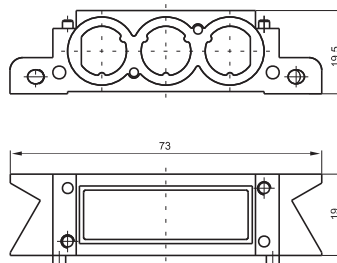


Weight 85 g

2430.✓

**Blank base**

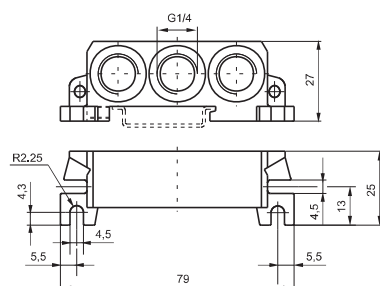
Coding: 2430.05



Weight 85 g

**Right inlet base**

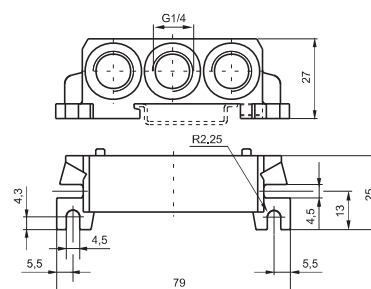
Coding: 2430.02



Weight 120 g

**Left inlet base**

Coding: 2430.03



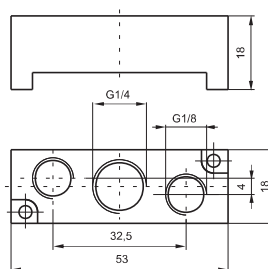
Weight 125 g

**Intermediate air intake**

Coding: 2430.10

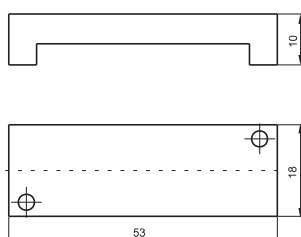


Weight 30 g  
to be assembled instead of a valve



**Closing plate**

Coding: 2430.00



Weight 20 g

**Diaphragm plug**

Coding: 2430.17



Weight 5 g

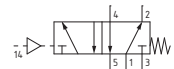
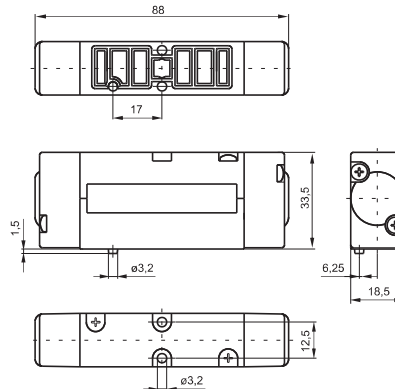
## Pneumatic - Spring

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 $\Delta p=1$ (l/min)	550
Orifice size (mm)	5



Weight 155 g



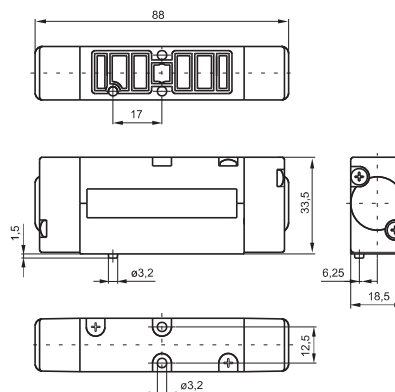
## Pneumatic-Differential

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 $\Delta p=1$ (l/min)	550
Orifice size (mm)	5



Weight 155 g



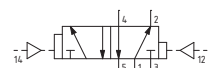
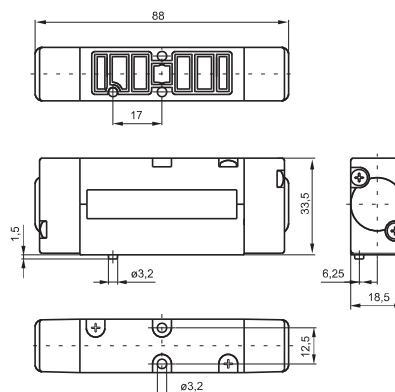
## Pneumatic - Differential (External)

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 $\Delta p=1$ (l/min)	550
Orifice size (mm)	5



Weight 155 g





Spool type valves and solenoid valves  
Series 2400 - Size 18mm VDMA

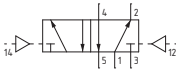
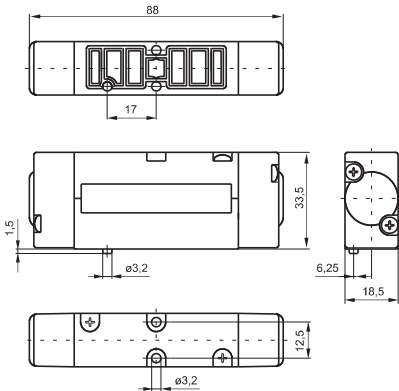
Pneumatic - Pneumatic

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

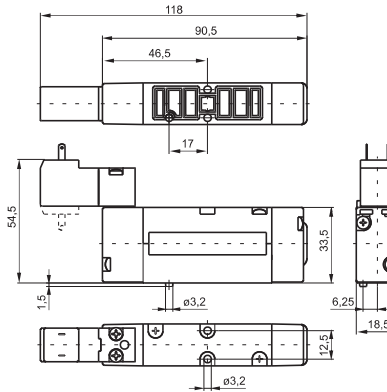


AIR DISTRIBUTION

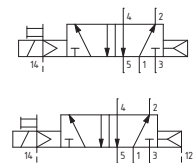
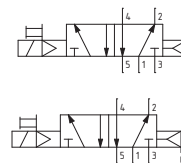
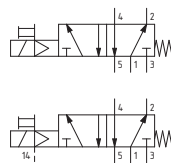
## Solenoid-Spring/Differential

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 $\Delta p = 1$ (l/min)	550
Orifice size (mm)	5



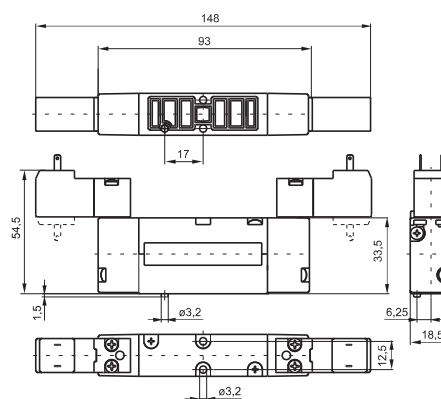
Weight 190 g



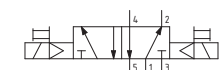
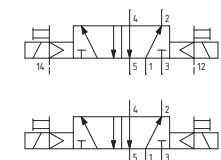
## Solenoid - Solenoid

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 $\Delta p = 1$ (l/min)	550
Orifice size (mm)	5



Weight 225 g

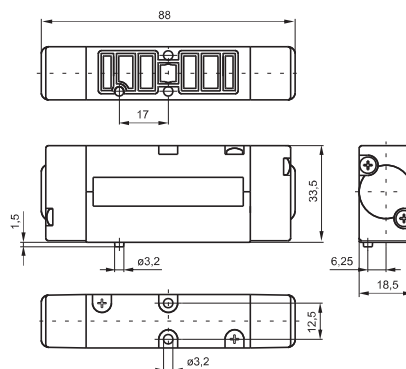


C	TYPE ELECTROPILOT EXHAUST
	1 = on base (only for self feeding valves)
V	5 = on pilot (for all version)
	VERSION
T	39 = Solenoid-Spring
	29 = Solenoid external-Spring
V	36 = Solenoid-Differential
	37 = Solenoid-Differential external
T	26 = Solenoid external-Differential
	27 = Solenoid external-Differential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

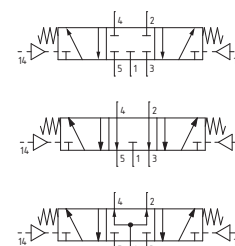


Operational characteristics	
Fluid	Filtered air, No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	3
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	550
Orifice size (mm)	5

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



Weight 165 g

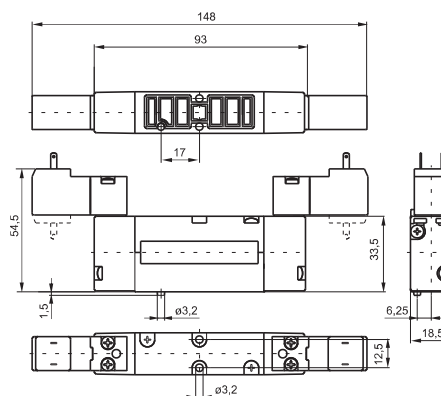


### Solenoid - Solenoid 5/3

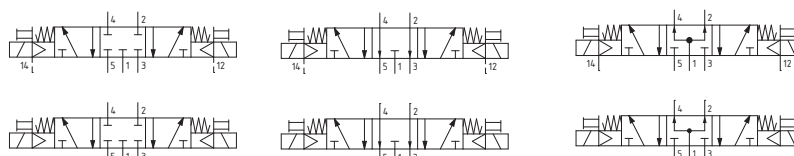
Coding: 244C.53.F.V.T

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 $\Delta p=1$ (Nl/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
V	33 = Pressured centres
	VERSION
	24 = Solenoid external-Solenoid external
T	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 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



Weight 235 g



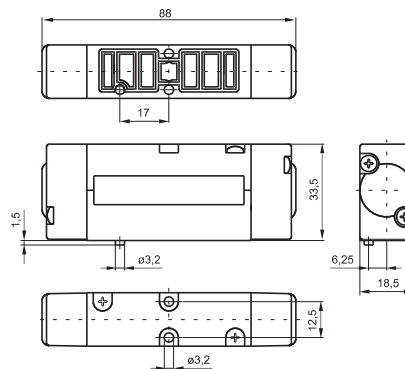
## Pneumatic-Pneumatic 2 x 3/2

Coding: 2445.62. **F**.18

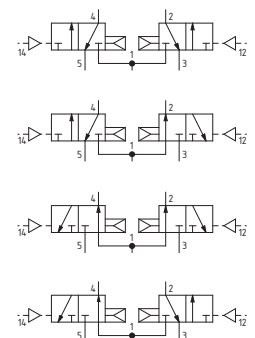
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	$\geq 1,5 + (0,2 \times \text{Inlet pressure})$
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p = 1$ (l/min)	450
Orifice size (mm)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

FUNCTION	
<b>44</b>	2 Coils 3/2 NC
<b>45</b>	1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12)
<b>55</b>	2 Coils 3/2 NO
<b>54</b>	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  $P_p = 1,5 + (0,2 \times 5) = 2,5 \text{ bar}$



Weight 170 g



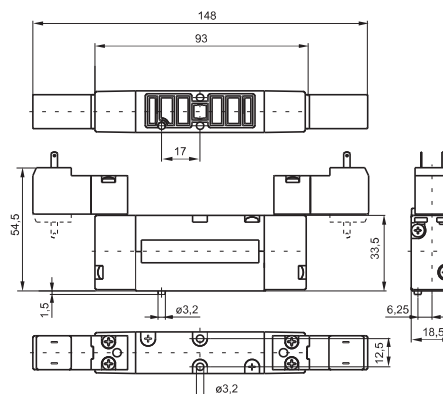
## Solenoid-Solenoid 2 x 3/2

Coding: 2445.62. **F**.35. **T**

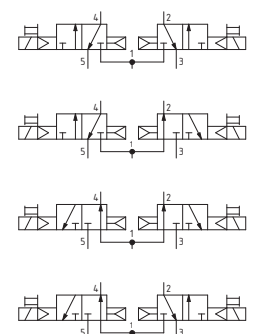
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Pilot pressure (bar)	$\geq 1,5 + (0,2 \times \text{Inlet pressure})$
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p = 1$ (l/min)	450
Orifice size (mm)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

FUNCTION	
<b>44</b>	2 Coils 3/2 NC
<b>45</b>	1 Coil 3/2 NC (14) + 1 Coil 3/2 NO (12)
<b>55</b>	2 Coils 3/2 NO
<b>54</b>	1 Coil 3/2 NO (14) + 1 Coil 3/2 NC (12)
VOLTAGE	
<b>01</b>	+ 12 V DC
<b>02</b>	+ 24 V DC
<b>05</b>	+ 24 V AC
<b>06</b>	110 V AC
<b>07</b>	230 V AC
<b>08</b>	+ 24 V DC 1W
<b>09</b>	+ 24 V DC Earth faston
<b>11</b>	+ 12 V DC downward
<b>12</b>	+ 24 V DC downward
<b>15</b>	+ 24 V AC downward
<b>16</b>	110 V AC downward
<b>17</b>	230 V AC downward
<b>18</b>	+ 24 V DC 1W downward
<b>19</b>	+ 24 V DC Earth faston downward

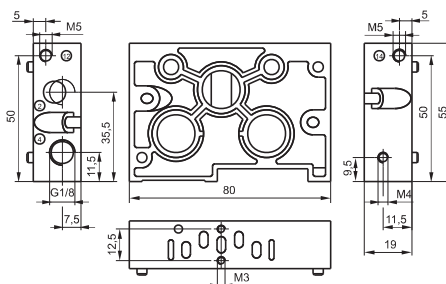
\*Example: if inlet pressure is set at 5bar then pilot pressure must be at least  $P_p = 1,5 + (0,2 \times 5) = 2,5 \text{ bar}$



Weight 250 g



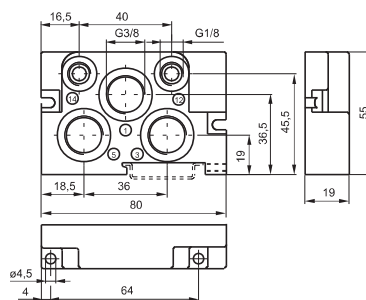
## Modular base



Coding: 2440.0

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

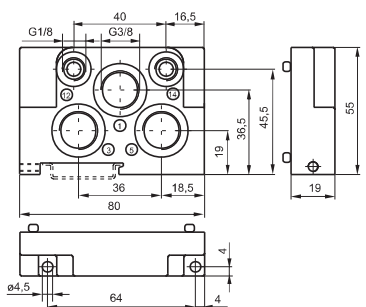
## Right inlet base



Coding: 2440.02

Weight 110 g

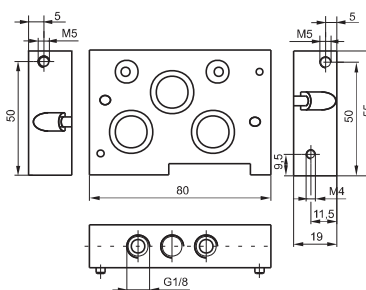
## Left inlet base



Coding: 2440.03

Weight 110 g

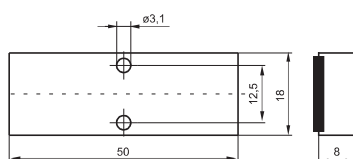
## Intermediate air intake



Coding: 2440.10

Weight 185 g

## Closing plate



Coding: 2440.00

Weight 25 g

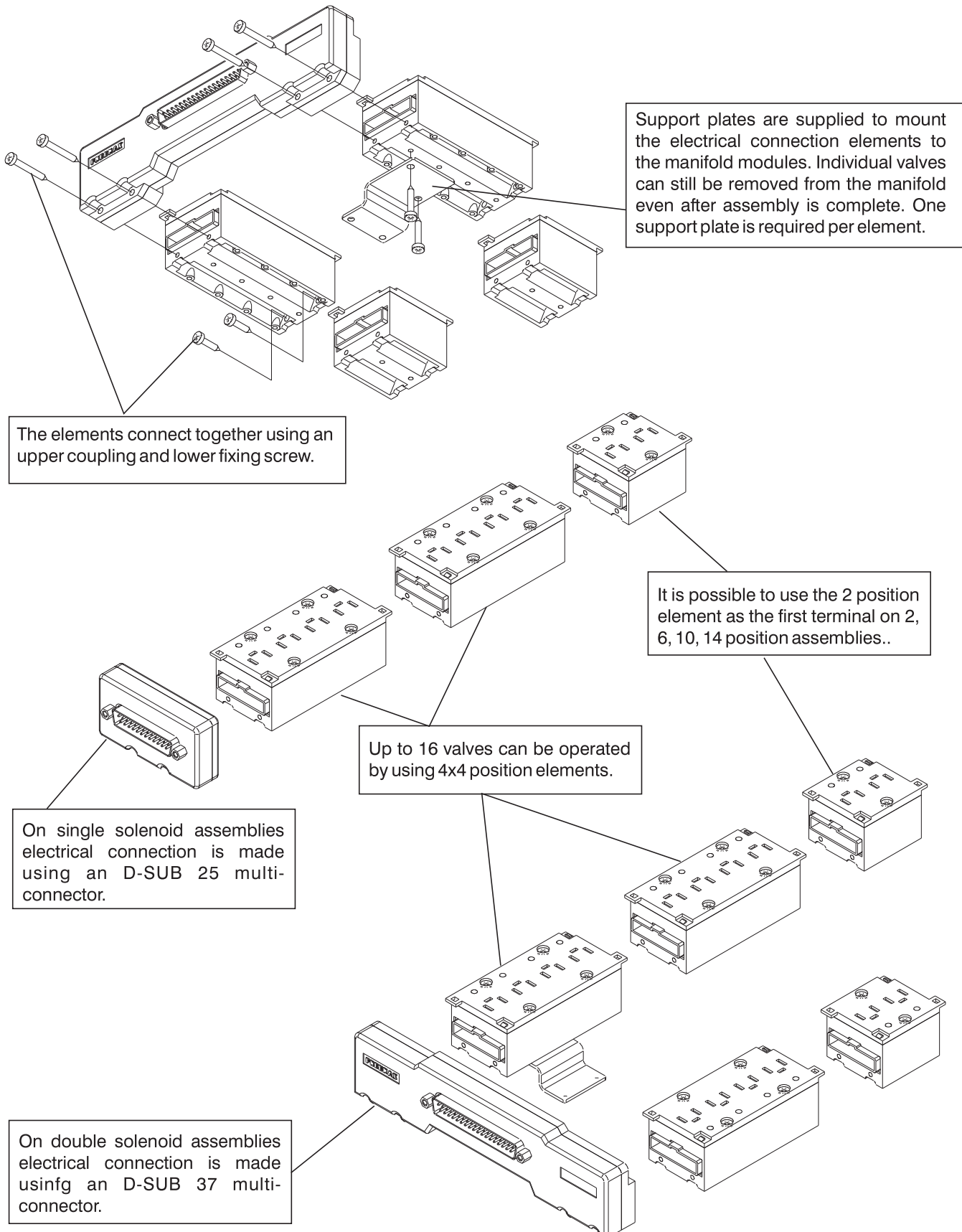
## Diaphragm plug



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





## Spool type valves and solenoid valves

### Series 2400 - Multi-pin connections

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#### Module for connections, 2 positions



Weight 30 g

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

Coding: 2400.02. **V**

VERSION
00 = Left IP40-PNP
02 = Left IP40-PNP with protection diode
10 = Left IP65-PNP
12 = Left IP65-PNP with protection diode
<b>V</b> 01 = Right IP40-PNP
03 = Right IP40-PNP with protection diode
11 = Right IP65-PNP
13 = Right IP65-PNP with protection diode

#### Module for connections, 4 positions



Weight 50 g

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

Coding: 2400.04. **V**

VERSION
00 = Left IP40-PNP
02 = Left IP40-PNP with protection diode
10 = Left IP65-PNP
12 = Left IP65-PNP with protection diode
<b>V</b> 01 = Right IP40-PNP
03 = Right IP40-PNP with protection diode
11 = Right IP65-PNP
13 = Right IP65-PNP with protection diode

#### Connectors 25 poles



Weight 40 g

The IP65 protection is obtained by IP65 Pneumax cable

Coding: 2400.25.10

#### Connectors 37 poles



Weight 120 g

The IP65 protection is obtained by IP65 Pneumax cable

Coding: 2400.37.10

#### Plug



Weight 5 g

Coding: 2400.00

#### Closing plate electrical positions



Weight 2 g

Coding: 2400.15.00

#### VDMA support plate



Weight 20 g

Coding: 2440.50

#### FLAT support plate



Weight 20 g

Coding: 2430.50

#### 4 positions box with 25 contacts connector



Weight 65 g

Coding: 2400.04.25

#### 15mm male connector with 2 metres cable



Weight 98 g

Coding: 2400.15.02

#### In line cable complete with connector, IP40



Coding: 2400. **C**. **L**. 00

CONNECTOR
<b>C</b> 25 = 25 poles
37 = 37 poles
CABLE LENGTH
<b>L</b> 03 = 3 meters
05 = 5 meters
10 = 10 meters

#### Cable complete with connector, 25 Poles, IP65



Coding: 2300.25. **L**. **C**

CABLE LENGTH
<b>L</b> 03 = 3 meters
05 = 5 meters
10 = 10 meters
CONNECTOR
<b>C</b> 10 = Stand alone
90 = 90° Angle

#### Cable complete with connector, 37 Poles, IP65

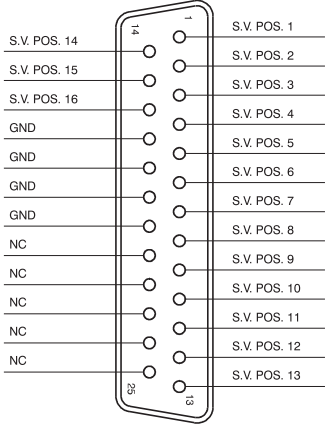


Coding: 2400.37. **L**. **C**

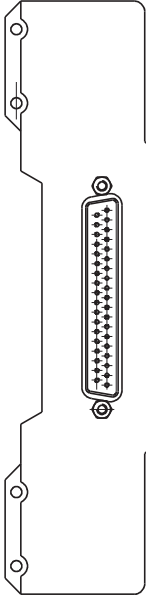
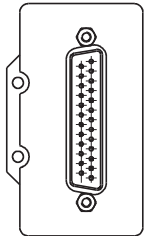
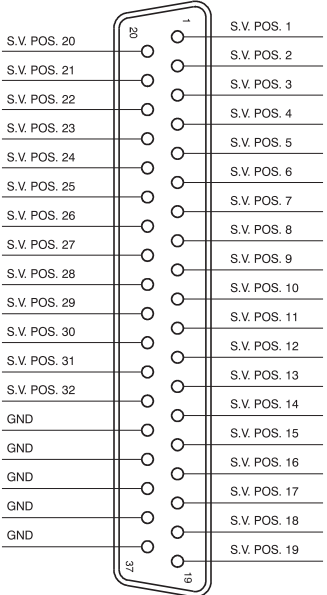
CABLE LENGTH
<b>L</b> 03 = 3 meters
05 = 5 meters
10 = 10 meters
CONNECTOR
<b>C</b> 10 = Stand alone
90 = 90° Angle



SUB-D 25 POLES  
CONNECTOR



SUB-D 37 POLES  
CONNECTOR



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