Series 2400

General

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 18mm 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 Extruded aluminium bar with chemical nickel treatment and PTFE Central body (polytetrafleurethylene) Connection plates Zincalloy Operators Technopolymer Spool seals Oil resistant nitrile rubber - HNBR Spools Aluminium 2011 Springs AISI 302 stainless steel **Pistons** Technopolymer Piston seals Oil resistant nitrile rubber - NBR

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.

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

Ordering codes for minature 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 solenoid 12 VDC

02 = miniature solenoid 24 VDC

05 = miniature solenoid 24 VAC 06 = miniature solenoid 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 solenoid 12 VDC

12 = miniature solenoid 24 VDC 15 = miniature solenoid 24 VAC

16 - miniature solenoid 24 VAC

16 = miniature solenoid 110 VAC

17 = miniature sol. 230 VAC

18 = miniature sol. 24 VDC 1W Downward

19 = miniature sol. 24 VDC Earth faston Downward

Ψ	Well-tried component	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
B _{10d}	50.000.000	product are fulfilled. - The suitability of the product for a precise application must be verified and confirmed by the user.

Miniature solenoid (Mus homologated are available (see Series 300).

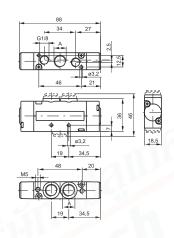


Pneumatic - Spring

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

Cod	ing: 241 A .52.00.19	
	WORKING PORTS SIZE	_
	1 = G1/4"	
A	5 = G1/8"	
	6 = Quick fitting tube Ø6	
	8 = Quick fitting tube Ø8	
		WORKING PORTS SIZE 1 = G1/4" 5 = G1/8" 6 = Quick fitting tube Ø6





Weight 155 g

For dimension "A" see ordering code



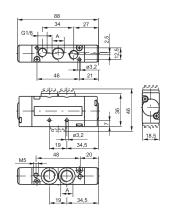
Coding: 241 **A**.52.00.16

Pneumatic - Differential

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

	WORKING PORTS SIZE
	1 = G1/4"
A	5 = G1/8"
	6 = Quick fitting tube Ø6
	8 = Quick fitting tube Ø8





Weight 155 g

For dimension "A" see ordering code



PREUMAX

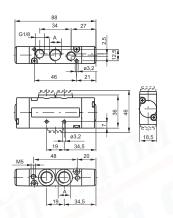
Pneumatic - Differential (External)

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

	WORKING PORTS SIZE
	1 = G1/4"
A	5 = G1/8"
	6 = Quick fitting tube Ø6
	8 = Quick fitting tube Ø8

Coding: 241 **A**.52.00.17





Weight 155 g

For dimension "A" see ordering code



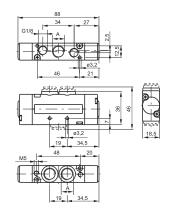
Coding: 241 **3**.52.00.18

Pneumatic - Pneumatic

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

	WORKING PORTS SIZE	
	1	= G1/4"
A	5	= G1/8"
	6	= Quick fitting tube Ø6
	8	= Quick fitting tube Ø8





Weight 155 g

For dimension "A" see ordering code

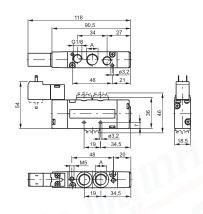




Solenoid-Spring / Differential

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





A **5** = G1/8" 6 = Quick fitting tube Ø6 8 = Quick fitting tube Ø8 VERSION 39 = Solenoid-Spring $\mathbf{29} = \mathsf{Solenoid} \, \mathsf{external} \text{-} \mathsf{Spring}$ 36 = Solenoid-Differerential **▼** 37 = Solenoid-Differential external 26 = Solenoid external-Differerential $\textbf{27} = \, \mathsf{Solenoid} \, \mathsf{external}\text{-}\mathsf{Differential}$ external VOLTAGE **01** = 12V DC 02 = 24V DC **05** = 24V AC **06** = 110V AC **07** = 230 V AC 08 = 24V DC 1W 0 09 = 24V DC downward 11 = 12V DC downward 12 = 24V DC downward 15 = 24V AC downward 16 = 110V AC downward 17 = 230 V AC downward 18 = 24V DC 1W downward

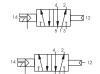
Coding: 241♠.52.00.♥.❶

| WORKING PORTS SIZE | 1 = G1/4"

For dimension "A" see ordering code

Weight 195 g





19 = 24V DC Earth faston downward

Solenoid - Solenoid

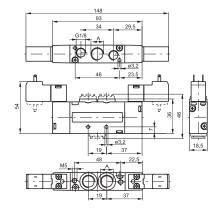
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	1.5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	800	
Orifice size (mm)	7	
Pilot ports size	M5	



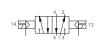
1 = G1/4"

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





For dimension "A" see ordering code





Weight 225 g

Coding:

PREUNAX

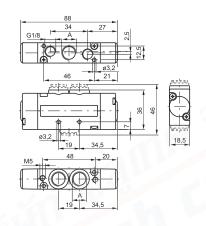
Pneumatic-Pneumatic 5/3

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting 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

	WORKING PORTS SIZE	
	1 = G1/4"	
A	5 = G1/8"	
	6 = Quick fitting tube Ø6	
	8 = Quick fitting tube Ø8	
	CONNECTOR	
Θ	10 = Inline	
	90 = 90° Angle	

241**A**.53.**B**.18





For dimension "A" see ordering code

14 M T T T T T 12





Coding: 241**△**.53.**ਿ.♥**.**•**

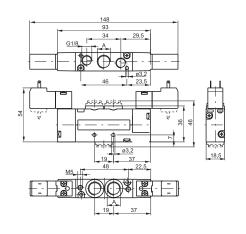
WORKING PORTS SIZE

Solenoid - Solenoid

Weight 165 g

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	3
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	650
Orifice size (mm)	√ ³ / ₂ 7
Pilot ports size	M5





For dimension "A" see ordering code

	1 - 01/4	
A	5 = G1/8"	
	6 = Quick fitting tube Ø6	
	8 = Quick fitting tube Ø8	
	FUNCTION	
a	31 = Closed centres	
•	32 = Open centres	
	33 = Pressured centres	
	VERSION	
Ø	24 = Solenoid external-Solenoid	
•	external	
	35 = Solenoid-Solenoid	
	VOLTAGE	
	01 = 12V DC	
	02 = 24V DC	
	05 = 24V AC	
	06 = 110V AC	
	07 = 230 V AC	
	08 = 24V DC 1W	
0	09 = 24V DC downward	
	11 = 12V DC downward	
	12 = 24V DC downward	
	15 = 24V AC downward	
	16 = 110V AC downward	
	17 = 230 V AC downward	
	18 = 24V DC 1W downward	
	19 = 24V DC Earth faston downward	

Weight 235 g

.. MI

Pneumatic-Pneumatic 2 x 3/2

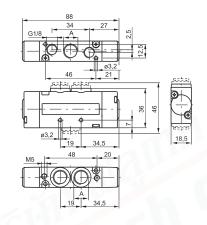
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	450
Orifice size (mm)	7

Example: if inlet pressure is set at 5bar then pilot pressure must be at least Pp=1,5+(0.2*5)=2,5bar

Coding:	241 A .62. E .18
WOR	KING PORTS SIZE

	WORKING PORTS SIZE
	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
G	NO (12)
	55 = 2 Coils 3/2 NO
	54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2
	NC (10)









14 2 12

WORKING PORTS SIZE 1 = G1/4" **5** = G1/8"

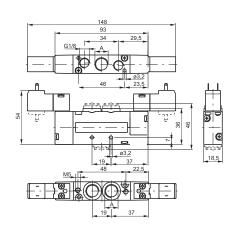
Weight 170 g

For dimension "A" see ordering code

Solenoid - Solenoid 2 x 3/2

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	450
Orifice size (mm)	7

Example: if inlet pressure is set at 5 bar then pilot pressure must be at least Pp=1,5+(0.2*5)=2,5 bar



Coding: 241**A**.62.**3**5.**1**

	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		
(3)	NO (12) 55 = 2 Coils 3/2 NO		
54 = 1 Coil 3/2 NO (14) + 1 Coil 3			
	NC (12)		
	VOLTAGE		
	01 = 12V DC		
02 = 24V DC			
	05 = 24V AC 06 = 110V AC 07 = 230 V AC 08 = 24V DC 1 Watt		
O	09 = 24V DC downward		
	11 = 12V DC downward 12 = 24V DC downward		
	15 = 24V AC downward		
	16 = 110V AC downward		
	17 = 230 V AC downward		
	18 = 24V DC 1 Watt downward		
	19 = 24V DC Earth faston downward		



For dimension "A" see ordering code

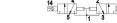






14 2 12 5 12







Pneumatic - Spring

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

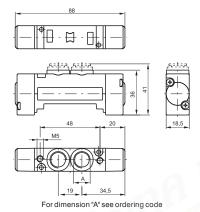
	WORKING PORTS SIZE		
	1 = G1/4"		
A	5 = G1/8"		
	6 = Quick fitting tube Ø6		
	8 = Quick fitting tube Ø8		

Coding: 243**A**.52.00.19





Weight 105 g





Coding:

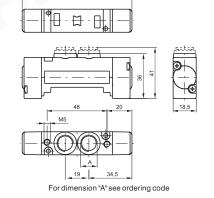
Pneumatic - Differential

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

	W	ORKING PORTS SIZE
	1	= G1/4"
A	5	= G1/8"
	6	= Quick fitting tube Ø6
	8	= Quick fitting tube Ø8

243 (3.52.00.16)







Coding: 243 **A**.52.00.17

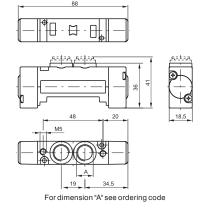
Pneumatic - Differential (External)

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

	WORKING PORTS SIZE
	1 = G1/4"
A	5 = G1/8"
	6 = Quick fitting tube Ø6
	8 = Quick fitting tube Ø8











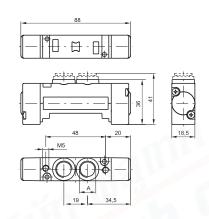
Pneumatic - Pneumatic

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

	WORKING PORTS SIZE
	1 = G1/4"
A	5 = G1/8"
	6 = Quick fitting tube Ø6
	8 = Quick fitting tube Ø8

Coding: 243 **3**.52.00.18





Weight 105 g

For dimension "A" see ordering code



Coding: 243**♠**.52.00.**♥**.**①**

WORKING PORTS SIZE

1 = G1/4"

5 = G1/8"

6 = Quick fitting tube Ø6 8 = Quick fitting tube Ø8

27 = Solenoid external-Differential

VERSION

39 = Solenoid - Spring

29 = Solenoid external-Spring

36 = Solenoid-Differential external

26 = Solenoid externalDiffererential

voltage

voltage

voltage

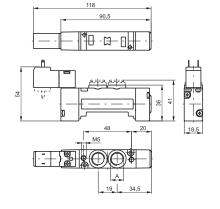
02 = 24V DC 05 = 24V AC 06 = 110V AC 07 = 230 V AC 08 = 24V DC 1W 09 = 24V DC downward 11 = 12V DC downward 15 = 24V AC downward 16 = 110V AC downward 17 = 230 V AC downward 18 = 24V DC 1W downward

A

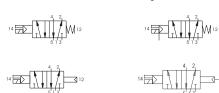
Solenoid-Spring / Differential

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





For dimension "A" see ordering code





19 = 24V DC Earth faston downward

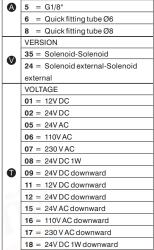




PREUMAX

Solenoid - Solenoid

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

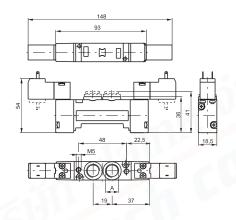


Coding: 243**♠**.52.00.**♥**.**①**

WORKING PORTS SIZE

1 = G1/4"





Weight 175 g

For dimension "A" see ordering code



19 = 24V DC Earth faston downward



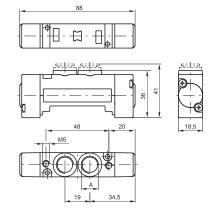
Pneumatic - Pneumatic 5 ways 3 connections

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

Coding: 243**3**.53.**6**.18

	WORKING PORTS SIZE		
	1 = G1/4"		
A	5 = G1/8"		
	6 = Quick fitting tube Ø6		
	8 = Quick fitting tube Ø8		
FUNCTION			
	31 = Closed centres		
(3)	32 = Open centres		
	33 = Pressured centres		





For dimension "A" see ordering code







Weight 115 g

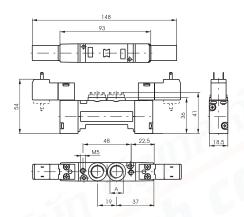
For difficulty A see ordering coo



Solenoid - Solenoid 5/3

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





A **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** = 12V DC **02** = 24V DC **05** = 24V AC **06** = 110V AC 07 = 230 V AC 08 = 24V DC 1W 09 = 24V DC downward 11 = 12V DC downward 12 = 24V DC downward 15 = 24V AC downward 16 = 110V AC downward 17 = 230 V AC downward 18 = 24V DC 1W downward

243**A**.53.**F**.**V**.**0**

WORKING PORTS SIZE

1 = G1/4"

Coding:



19 = 24V DC Earth faston downward





Weight 185 g

For dimension "A" see ordering code

Pneumatic-Pneumatic 2 x 3/2

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	450
Orifice size (mm)	7

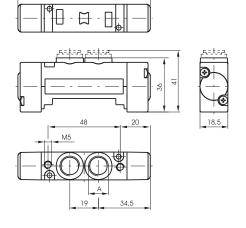
Example: if inlet pressure is set at 5bar then pilot pressure must be at least Pp=1,5+(0.2*5)=2,5bar

Coding: 243**4**.62.**6**.18

NC (12)

	WORKING PORTS SIZE	
	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	
(3)	NO (12)	
	55 = 2 Coils 3/2 NO	
	54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2	





For dimension "A" see ordering code







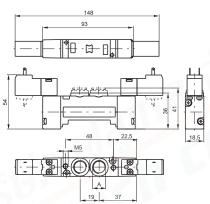


Weight 110 g

Solenoid - Solenoid 2 x 3/2

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=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*5)=2,5bar



09 = 24V DC downward 11 = 12V DC downward 12 = 24V DC downward 15 = 24V AC downward 16 = 110V AC downward $17 = 230 \, \text{VAC} \, \text{downward}$ 18 = 24V DC 1 Watt downward 19 = 24V DC Earth faston downward

Coding: 243 **A**.62. **D**.35. **D** WORKING PORTS SIZE 1 = G1/4" **A** 5 = G1/8"

6 = Quick fitting tube Ø6 8 = Quick fitting tube Ø8

55 = 2 Coils 3/2 NO

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

FUNCTION 44 = 2 Coils 3/2 NC 45 = 1 Coil 3/2 NC (14) + 1 Coil 3/2

(12)

NC (12) VOLTAGE **01** = 12V DC **02** = 24V DC

05 = 24V AC 06 = 110V AC **07** = 230 V AC 08 = 24V DC 1 Watt







Weight 190 g

For dimension "A" see ordering code

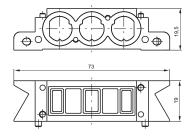
2430. Coding:

VERSION

01 = Modular base V 06 = Supply and exhaust closed

07 = Supply closed
08 = Exhaust closed

Weight 85 g



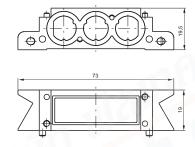
AIR DISTRIBUTION

Blanck base



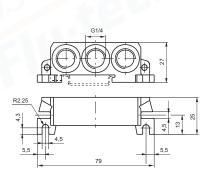
Weight 85 g

2430.05 Coding:



Inlet base



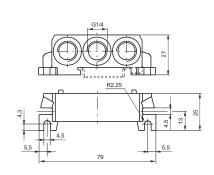


2430. Coding:

	VERSION	
	V	02 = Right
		03 = Left

Weight 120 g





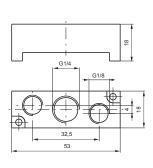
Weight 125 g

Coding:

Intermediate air intake



Weight 30 g to be assembled instead of a valve

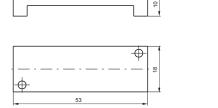


2430.10

Spool valves and solenoid valves Series 2400 - Accessories

Closing plate Coding: 2430.00





Weight 20 g

2430.17 Diaphragm plug Coding:



Weight 5 g

Weight 155 g



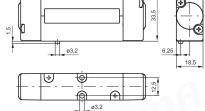
Pneumatic - Spring

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Pressure range (bar)	2	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	550	
Orifice size (mm)	5	





17





Coding:

2445.52.00.16

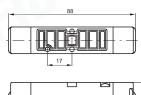
Coding: 2445.52.00.19

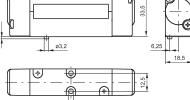
Pneumatic - Differential

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	550
Orifice size (mm)	5



Weight 155 g







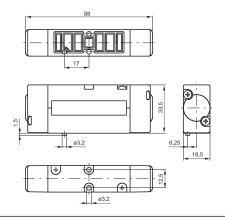
Coding: 2445.52.00.17

Pneumatic - Differential (External)

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	550	
Orifice size (mm)	5	



Weight 155 g









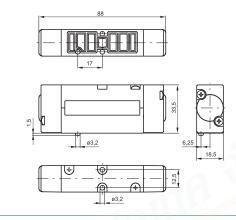
Coding: 2445.52.00.18

Pneumatic - Pneumatic

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











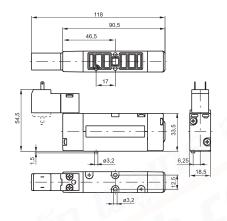


Solenoid-Spring / Differential

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	550
Orifice size (mm)	5



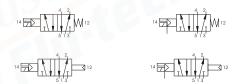


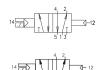


• valves) 5 = on pilot (for all version) VERSION 39 = Solenoid - Spring ${\bf 29} = \, {\sf Solenoid\,external\text{-}Spring}$ 36 = Solenoid-Differential 37 = Solenoid-Differerential V external 26 = Solenoid external-Differerential ${\bf 27} = \, {\sf Solenoid\, external-}$ Differerential external VOLTAGE **01** = 12V DC 02 = 24V DC **05** = 24V AC **06** = 110V AC **07** = 230 V AC 08 = 24V DC 1W 0 09 = 24V DC downward 11 = 12V DC downward 12 = 24V DC downward 15 = 24V AC downward 16 = 110V AC downward 17 = 230 V AC downward 18 = 24V DC 1W downward 19 = 24V DC Earth faston downward

Coding: 244**⊚**.52.00.**♥**.**①** TYPE ELECTROPILOT EXHAUST 1 = on base (only for self feeding)

Weight 190 g





TYPE ELECTROPILOT EXHAUST

Solenoid - Solenoid

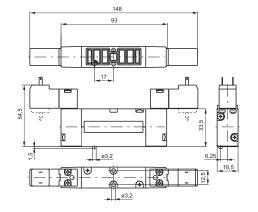
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	1.5
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	550
Orifice size (mm)	1 9 7

24 Coding:

4 0	52	\cap		•
140	.⊃∠.	.UU	.V.	V

0	1 = on base (only for self feeding			
G	valves)			
	5 = on pilot (for all version)			
	VERSION			
•	24 = Solenoid external-Solenoid			
V	external			
	35 = Solenoid-Solenoid			
	VOLTAGE			
	01 = 12V DC			
	02 = 24V DC			
	05 = 24V AC			
	06 = 110V AC			
	07 = 230 V AC			
	08 = 24V DC 1W			
•	09 = 24V DC downward			
	11 = 12V DC downward			
	12 = 24V DC downward			
	15 = 24V AC downward			
	16 = 110V AC downward			
	17 = 230 V AC downward			
	18 = 24V DC 1W downward			
	19 = 24V DC Earth faston downward			





Weight 225 g





Series 2400 - Size 18mm VDMA

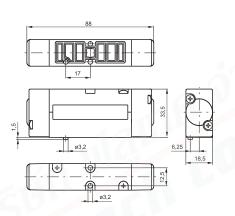
Pneumatic - Pneumatic 5 ways 3 connections

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

TYPE ELECTROPILOT EXHAUST 1 = on base (only for self feeding valves) 5 = on pilot (for all version) FUNCTION 31 = Closed centres 32 = Open centres ${\bf 33} = \ {\sf Pressured} \ {\sf centres}$

Coding: 244@.53. **3**.18











Weight 165 g

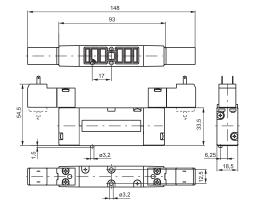
Solenoid - Solenoid 5 ways 3 connections

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	3	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	550	
Orifice size (mm)	1 97	

Codi	-	244 © .53. J . V . U
	TYPE	ELECTROPILOTEXHAUST
(1 =	on base (only for self feeding

	•	valves)	
1		5 = on pilot (for all version)	
		FUNCTION	
	(3)	31 = Closed centres	
╛	•	32 = Open centres	
		33 = Pressured centres	
		VERSION	
	V	24 = Solenoid external-Solenoid	
		external	
		35 = Solenoid-Solenoid	
		VOLTAGE	
		01 = 12V DC	
		02 = 24V DC	
		05 = 24V AC	
		06 = 110V AC	
		07 = 230 V AC	
		08 = 24V DC 1W	
	•	09 = 24V DC downward	
		11 = 12V DC downward	
		12 = 24V DC downward	
		15 = 24V AC downward	
		16 = 110V AC downward	
		17 = 230 V AC downward	
		18 = 24V DC 1W downward	
		19 = 24V DC Earth faston downward	











Weight 235 g



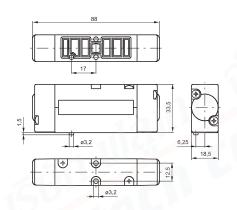
Pneumatic-Pneumatic 2 x 3/2

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	450	
Orifice size (mm)	5	

NC (12)

Example: if inlet pressure is set at 5bar then pilot pressure must be at least Pp=1,5+(0.2*5)=2,5bar













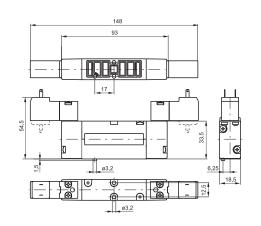
Weight 170 g

Solenoid - Solenoid 2 x 3/2

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	450	
Orifice size (mm)	5	

Example: if inlet pressure is set at 5bar then pilot pressure must be at least Pp=1,5+(0.2*5)=2,5bar





Coding: 2445.62. **3**5.

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

FUNCTION 44 = 2 Coils 3/2 NC

•	NO (12)		
_	55 = 2 Coils 3/2 NO		
	54 = 1 Coil 3/2 NO (14) + 1 Coil 3/2		
	NC (12)		
	VOLTAGE		
	01 = 12V DC		
	02 = 24V DC		
	05 = 24V AC		
	06 = 110V AC		
	07 = 230 V AC		
	08 = 24V DC 1 Watt		
•	09 = 24V DC downward		
	11 = 12V DC downward		
	12 = 24V DC downward		
	15 = 24V AC downward		
	16 = 110V AC downward		
	17 = 230 V AC downward		
	18 = 24V DC 1 Watt downward		
	19 = 24V DC Earth faston downward		







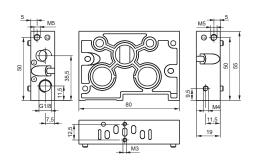
14 2 12

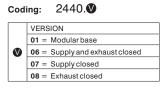
Weight 250 g





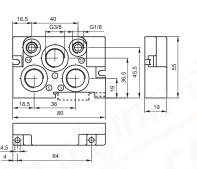








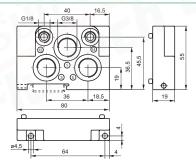






Weight 110 g

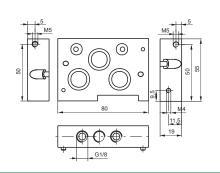




Weight 110 g

Intermediate air intake





Coding: 2440.10

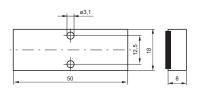
Weight 185 g

Coding:

2440.00

Closing plate





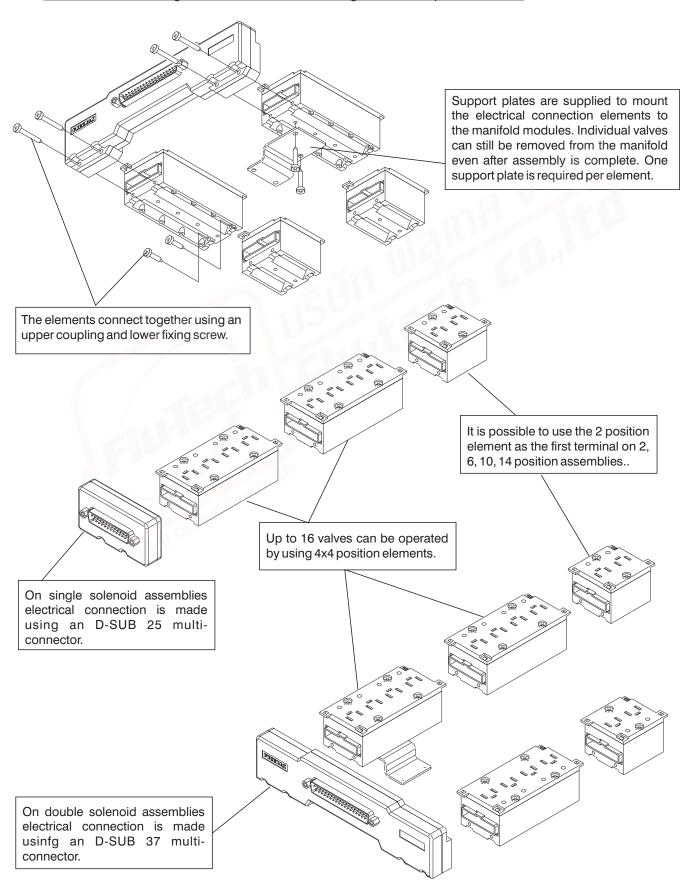
Weight 25 g

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







4 positions box with 25 contacts connector



Weight 65 g

Coding:

Coding:

15mm male connector with 2 metres cable



Weight 98 g

In line cable complete with connector IP40



Coding: 2400. **1**. **0**.00

	CONNECTORS	
0	25 = 25 poles	
	37 = 37 poles	
	CABLE LENGTH	
	03 = 3 meters	
•	05 = 5 meters	
	10 = 10 meters	

2400.04.25

2400.15.02

2400.0.00

Cable complete with connector, 25 Poles IP65



Coding: 2300.25. **.**

	•	CABLE LENGTH
		03 = 3 meters
		05 = 5 meters
		10 = 10 meters
	•	FUNCTION
		31 = Closed centres
		32 = Open centres
		33 = Pressured centres

Cable complete with connector, 37 Poles IP65



Coding: 2400.37. **.**

	•	CABLE LENGTH
		03 = 3 meters
		05 = 5 meters
		10 = 10 meters
	•	FUNCTION
		31 = Closed centres
		32 = Open centres
		33 = Pressured centres

