Series 2400



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 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 & Nus homologated are available (see Series 300).

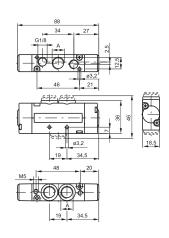


Pneumatic - Spring

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

	WORKING PORTS SIZE		
1 = G1/4"		= 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



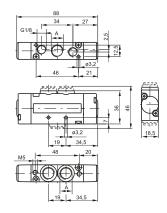
Pneumatic - Differential

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	

	Coding:	241(3).52.00.16	
	WOF	RKING PORTS SIZE	
1 =		G1/4"	

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





Weight 155 g



PNEUMAX

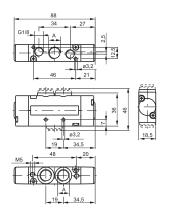
Pneumatic - Differential (External)

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



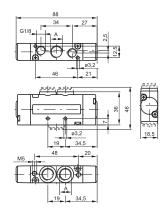
Pneumatic - Pneumatic

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

Coding: 241@.52.00.18

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





Weight 155 g

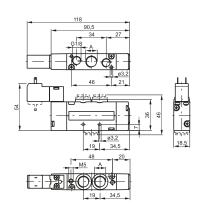




Solenoid-Spring / Differential

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	

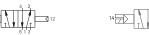




For dimension "A" see ordering code

Weight 195 g







Coding: 241**♠**.52.00.**♥**.**①**

WORKING PORTS SIZE

1 = G1/4"

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

 $\textbf{27} = \ \mathsf{Solenoid} \ \mathsf{external}\text{-}\mathsf{Differential}$

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

5 = G1/8"

VERSION

39 = Solenoid - Spring

29 = Solenoid external-Spring

36 = Solenoid-Differerential

37 = Solenoid-Differential external

26 = Solenoid external-Differential

external
VOLTAGE
01 = 12V DC
02 = 24V DC
05 = 24V AC
06 = 110V AC
07 = 230 V AC
08 = 24V DC 1W

•

Coding:

A



WORKING PORTS SIZE

1 = G1/4"

5 = G1/8"

6 = Quick fitting tube Ø68 = Quick fitting tube Ø8

35 = Solenoid-Solenoid 24 = Solenoid external-Solenoid

VERSION

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

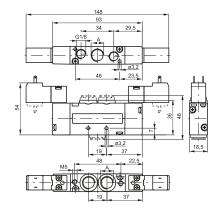
16 = 110V AC downward 17 = 230 V AC downward 18 = 24V DC 1W downward 19 = 24V DC Earth faston downward

241**A**.52.00.**V**.**1**

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





4 2
14 🔂 🗼 🕏



Coding:



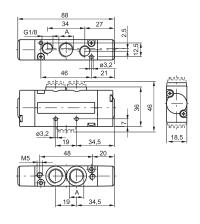
Pneumatic-Pneumatic 5/3

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 Δp=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 = In line
	90 = 90° Angle

2414.53.1.18





For dimension "A" see ordering code







Coding: 241**△**.53.**□**.**♥**.**□**

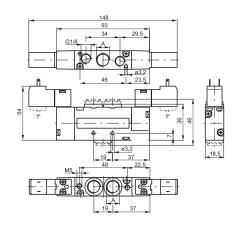
WORKING PORTS SIZE

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 $\Delta p=1$ (NI/min)	650
Orifice size (mm)	7
Pilot ports size	M5





For dimension "A" see ordering code

	1 - 41/4
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
V	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
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



Pneumatic-Pneumatic 2 x 3/2

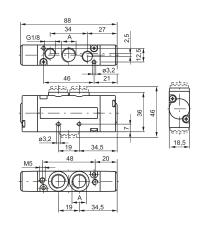
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	450
Orifice size (mm)	7

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 **3**.62. **6**.18

	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
•	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

14 7 3







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

WORKING PORTS SIZE

1 = G1/4"

5 = G1/8"

6 = Quick fitting tube Ø6

A

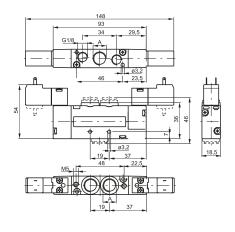


Solenoid - Solenoid 2 x 3/2

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





For dimension "A" see ordering code





	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)
	VOLTAGE
	01 = 12V DC
	02 = 24V DC
	05 = 24V AC
	06 = 110V AC
	07 = 230 V AC
	08 = 24V DC 1 Watt
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 1 Watt downward
	19 = 24V DC Earth faston downward





Weight 250 g

PNEUMAN

Pneumatic - Spring

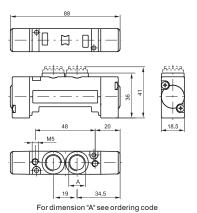
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	800
Orifice size (mm)	7
Pilot ports size	M5

	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









Coding: 243 **A**.52.00.16

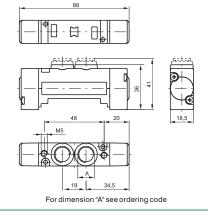
Pneumatic - Differential

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



Weight 105 g





Coding: 243 **A**.52.00.17

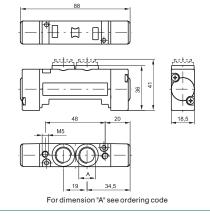
Pneumatic - Differential (External)

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	

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



Weight 105 g



14 - 12

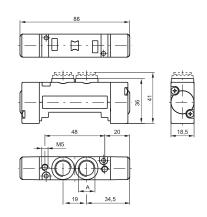


Pneumatic - Pneumatic

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 $\Delta p=1$ (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 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

37 = Solenoid-Differential external

26 = Solenoid externalDiffererential

voltage

voltage

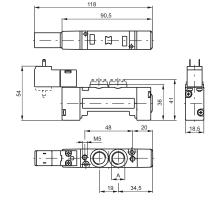
voltage

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

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



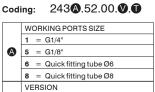


19 = 24V DC Earth faston downward

Weight 140 g

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	



24 = Solenoid external-Solenoid external VOLTAGE

35 = Solenoid-Solenoid

01 = 12V DC 02 = 24V DC

05 = 24V AC 06 = 110V AC

07 = 230 V AC 08 = 24V DC 1W

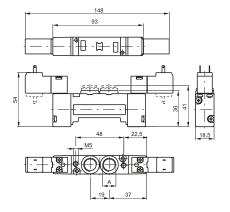
09 = 24V DC downward 11 = 12V DC downward

12 = 24V DC downward15 = 24V AC downward 16 = 110V AC downward

17 = 230 V AC downward 18 = 24V DC 1W downward

19 = 24V DC Earth faston downward





Weight 175 g

For dimension "A" see ordering code





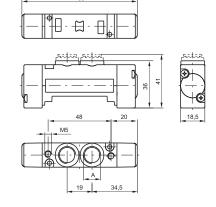
Pneumatic - Pneumatic 5 ways 3 connections

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**A**.53.**B**.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		
•	32 = Open centres	
	33 = Pressured centres	

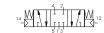




For dimension "A" see ordering code







Weight 115 g

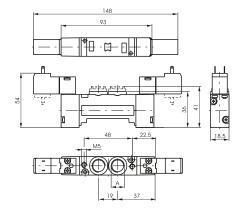
Weight 185 g



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





For dimension "A" see ordering code

Coding: 243♠.53.♠.♥.❶ | WORKING PORTS SIZE

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







Pneumatic-Pneumatic 2 x 3/2

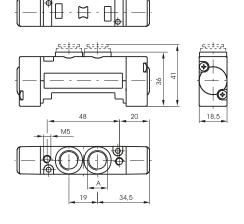
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	450
Orifice size (mm)	7

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**A**.62.**E**.18

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















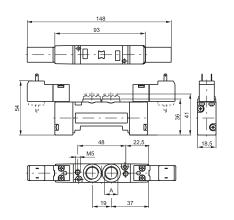
Solenoid - Solenoid 2 x 3/2

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

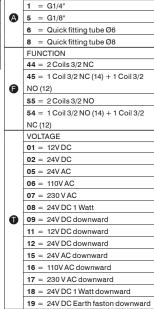
Example: if inlet pressure is set at 5bar then pilot pressure must be at least Pp=1,5+(0.2*5)=2,5bar



Weight 190 g



For dimension "A" see ordering code



Coding: 243**A**.62.**F**.35.**1**

WORKING PORTS SIZE



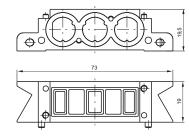






5000

Weight 85 g



Coding: 2430.♥

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

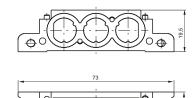
2430.05

Coding:

Blanck base

45000

Weight 85 g

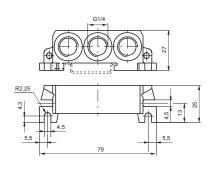


Coding: 2430.**♥**

VERSION
02 = Right
03 = Left

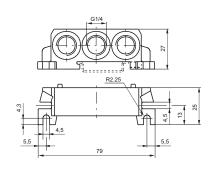
Inlet base





Weight 120 g





Weight 125 g

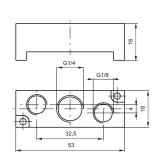
Coding:

2430.10

Intermediate air intake



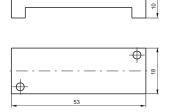
Weight 30 g to be assembled instead of a valve





Closing plate Coding: 2430.00





Weight 20 g

Coding: 2430.17 Diaphragm plug



Weight 5 g

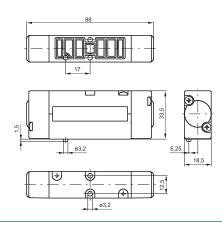


Pneumatic - Spring

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









Coding: 2445.52.00.16

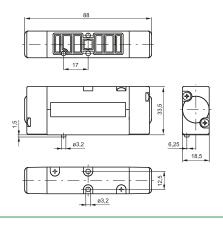
Coding: 2445.52.00.19

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





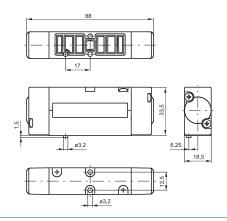
Coding: 2445.52.00.17

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







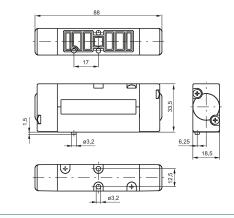
Coding: 2445.52.00.18

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







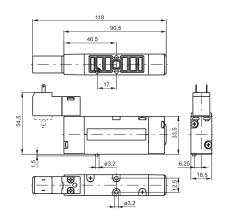




Solenoid-Spring / Differential

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





1 = on base (only for self feeding • valves) 5 = on pilot (for all version) VERSION 39 = Solenoid - Spring 29 = Solenoid external-Spring ${\bf 36} = {\sf Solenoid\text{-}Differential}$ 37 = Solenoid-Differerential V external 26 = Solenoid external-Differerential ${\bf 27} = \ {\bf Solenoid\ external} {\bf -}$ Differerential external VOLTAGE **01** = 12V DC 02 = 24V DC **05** = 24V AC 06 = 110 VAC**07** = 230 V AC 08 = 24V DC 1W O 09 = 24V DC downward 11 = 12V DC downward 12 = 24V DC downward15 = 24V AC downward 16 = 110V AC downward

Coding: 244**⊚**.52.00.**♥**.**①**

TYPE ELECTROPILOT EXHAUST

Weight 190 g







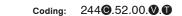


TYPE ELECTROPILOT EXHAUST

17 = 230 V AC downward 18 = 24V DC 1W downward 19 = 24V DC Earth faston downward

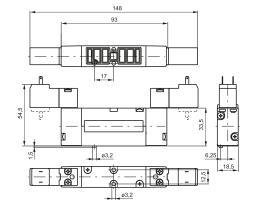
Solenoid - Solenoid

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)	550
Orifice size (mm)	5



•	1 = on base (only for self feeding		
	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		
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 225 g





Pneumatic - Pneumatic 5 ways 3 connections

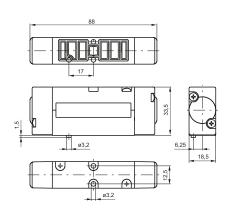
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	3	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	550	
Orifice size (mm)	5	

Coding: 244@.53.@.18

TYPE ELECTROPILOT EXHAUST
1 = on base (only for self feeding valves)
5 = on pilot (for all version)

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











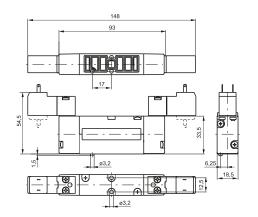
Solenoid - Solenoid 5 ways 3 connections

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 ∆p=1 (NI/min)	550	
Orifice size (mm)	5	

Coding: 244**©**.53.**5**.**V**.**1**

	TYPE ELECTROPILOT EXHAUST
	1 = on base (only for self feeding
	valves)
	5 = on pilot (for all version)
	FUNCTION
6	31 = Closed centres
	32 = Open centres
	33 = Pressured centres
	VERSION
V	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
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





14 4 2 1 1 2 1 2

19 = 24V DC Earth faston downward





Weight 235 g



Pneumatic-Pneumatic 2 x 3/2

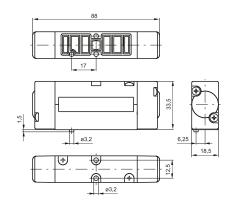
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Maximum piloting pressure (bar)	≥1,5+(0,2xInlet pressure)	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	450	
Orifice size (mm)	5	

Coding: 2445.62.**@**.18

	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		
	NC (12)		

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 then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 bar then pilot pressure must be at least Pp = 1,5 + (0.2*5) = 2,5 + (0.2*5)





14 2 12







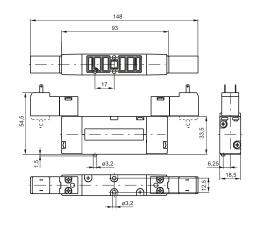
Weight 170 g

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	

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





Coding: 2445.62.**3**5.**1**

	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 = 12V DC
	02 = 24V DC
	05 = 24V AC
	06 = 110V AC
	07 = 230 V AC
	08 = 24V DC 1 Watt
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 1 Watt downward
	19 = 24V DC Earth faston downward







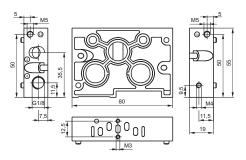


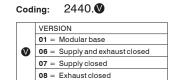
Weight 250 g





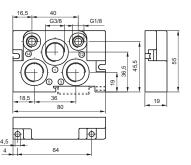






Inlet base





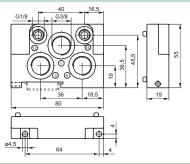
Coding: 2440.

■ VERSION
■ 02 = Right

Weight 110 g

03 = Left





Weight 110 g

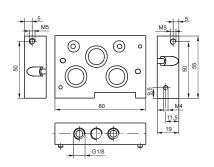
Coding:

2440.10

2440.00

Intermediate air intake

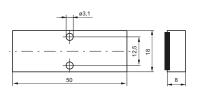




Weight 185 g

Closing plate





Weight 25 g

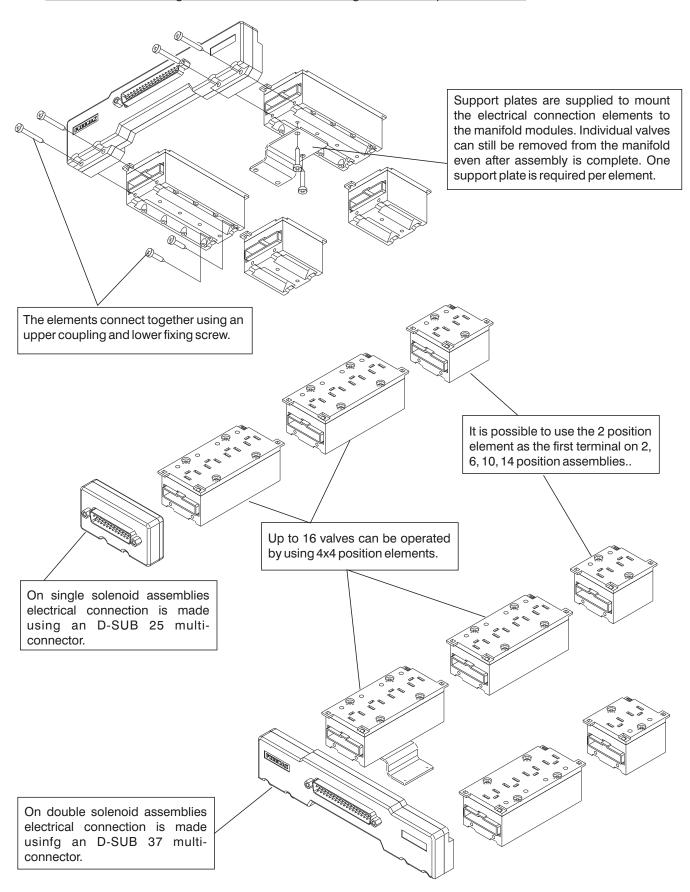
Coding:

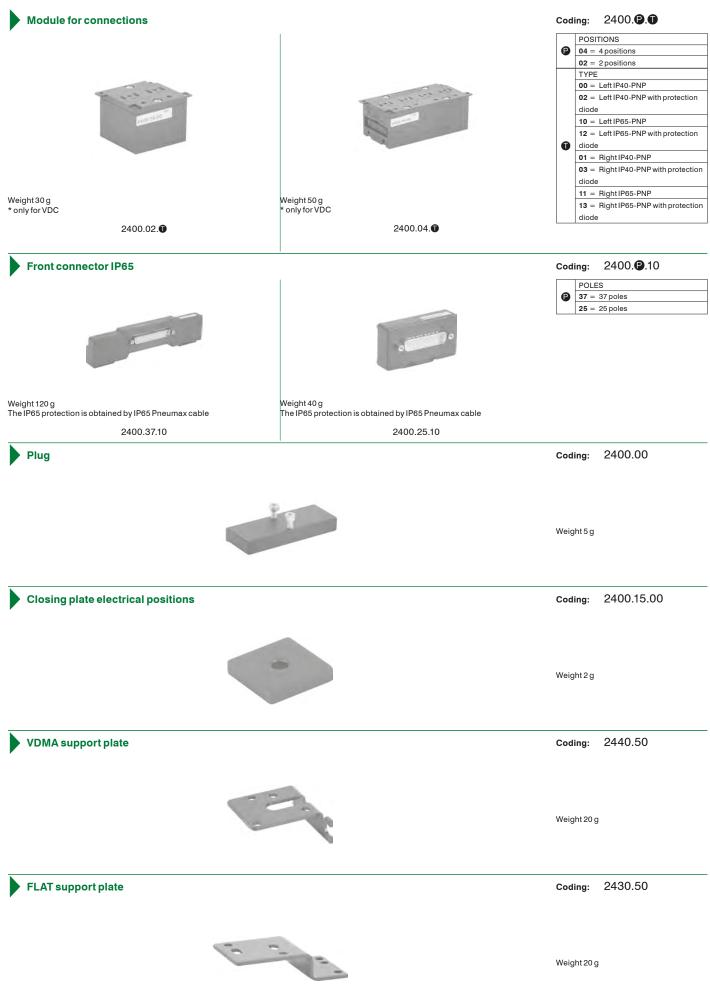
Diaphragm plug Coding: 2440.17



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: 2400.04.25

15mm male connector with 2 metres cable



Weight 98 g

In line cable complete with connector IP40



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

	•	CONNECTORS
		25 = 25 poles
		37 = 37 poles
	•	CABLELENGTH
		03 = 3 meters
		05 = 5 meters
		10 = 10 meters

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
	9	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
	9	FUNCTION
		31 = Closed centres
		32 = Open centres
		33 = Pressured centres





