## Spool valves and solenoid valves 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 18 mm divided into 3 types "LINE", "FLAT" and "VDMA".
The 10 mm . 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 (polytetrafleurethylene)

| Connection plates | (polytetrafleurethylene) |
| :---: | :---: |
| Operators | Zincalloy |
| Spool seals | Oil resistant nitrile rubber |
| Spools - HNBR |  |
| Springs | Aluminium 2011 |
| Pistons | AlSI 302 stainless steel |
| Piston seals | Technopolymer |
|  | 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 $1,1 \mathrm{~mm}$. 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

|  | Well-tried component | - The product is a well-tried product for a safety-related application according to ISO 13849-1. <br> - The relevant basic and well-tried safety principles according ISO 13849-2 for this |
| :---: | :---: | :---: |
| $\mathbf{B}_{10 \mathrm{~d}}$ | 50.000.000 | - The suitability of the product for a precise application must be verified and confirmed by the user. |

Miniature solenoid ${ }_{\mathrm{C}} \mathbf{M}_{\text {us }}$ 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 ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{~N} / \mathrm{min})$ | 800 |
| Orifice size (mm) | 7 |
| Pilot ports size | M5 |

Coding:
241A.52.00.19


For dimension "A" see ordering code

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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) |  |
| Maximum piloting pressure (bar) | 10 |
| Temperature ${ }^{\circ} \mathrm{C}$ | 2 |
| Flow rate at bar with $\Delta \mathrm{p}=1(\mathrm{NI} / \mathrm{min})$ | $-5 \div+50$ |
| Orifice size $(\mathrm{mm})$ | 800 |
| Pilot ports size | 7 |




Pneumatic - Differential (External)

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



For dimension " A " see ordering code

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## 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 |
| Maximum piloting pressure (bar) | 1.5 |
| Temperature ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{~N} / / \mathrm{min})$ | 800 |
| Orifice size $(\mathrm{mm})$ | 7 |
| Pilot ports size | M 5 |


| A | WORKING PORTS SIZE |
| :--- | :--- |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | $6=$ Quick fitting tube $\varnothing 6$ |
|  | $8=$ Quick fitting tube $\varnothing 8$ |



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 ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{Nl} / \mathrm{min})$ | 800 |
| Orifice size $(\mathrm{mm})$ | 7 |
| Pilot ports size | M 5 |

Coding: 241A.52.00.…(1)

| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | 6 = Quick fitting tube $\varnothing 6$ |
|  | 8 = Quick fitting tube $\varnothing 8$ |
| (V) | VERSION |
|  | 39 = Solenoid - Spring |
|  | 29 = Solenoid external-Spring |
|  | $36=$ Solenoid-Differerential |
|  | 37 = Solenoid-Differential external |
|  | 26 = Solenoid external- <br> Differerential |
|  | 27 = Solenoid external-Differential external |
| T | VOLTAGE |
|  | $01=12 \mathrm{VDC}$ |
|  | $02=24 \mathrm{VDC}$ |
|  | $05=24 \mathrm{VAC}$ |
|  | $06=110 \mathrm{VAC}$ |
|  | $07=230 \mathrm{VAC}$ |
|  | $08=24 \mathrm{VDC} 1 \mathrm{~W}$ |
|  | $09=24 \mathrm{~V}$ DC downward |
|  | $11=12 \mathrm{VDC}$ downward |
|  | $12=24 \mathrm{~V}$ DC downward |
|  | $15=24 \mathrm{~V}$ AC downward |
|  | $16=110 \mathrm{~V} \mathrm{AC}$ downward |
|  | $17=230 \mathrm{VAC}$ downward |
|  | $18=24 \mathrm{~V}$ DC 1W downward |
|  | $19=24 V$ DC Earth faston downward |

$19=24 \mathrm{~V} D C$ Earth faston downward


For dimension "A" see ordering code
Weight 195 g

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Solenoid - Solenoid

| Fluid | Opera |
| :--- | ---: |
| Max working pressure (bar) |  |
| Maximum piloting pressure (bar) |  |
| Temperature ${ }^{\circ} \mathrm{C}$ |  |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{NI} / \mathrm{min})$ |  |
| Orifice size $(\mathrm{mm})$ |  |
| Pilot ports size |  |



Pneumatic-Pneumatic 5/3
Coding: 241A.53.E. 18

| Operational characteristics |  |
| :--- | :---: |
| Fluid | Filtered air. Nolubrication needed, if applied it shall be continuous |
| Max working pressure (bar) |  |
| Maximum piloting pressure (bar) | 10 |
| Temperature ${ }^{\circ} \mathrm{C}$ |  |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{NI} / \mathrm{min})$ | $-5 \div+50$ |
| Orifice size $(\mathrm{mm})$ | 650 |
| Pilot ports size | 7 |


| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | 6 = Quick fitting tube $\varnothing 6$ |
|  | $8=$ Quick fitting tube $\varnothing 8$ |
| (C) | CONNECTOR |
|  | $10=$ In line |
|  | $90=90^{\circ}$ Angle |



For dimension " A " see ordering code




Solenoid - Solenoid

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



For dimension "A" see ordering code

Coding: 241(A.53.E.V.(T)

| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | 1 = G1/4" |
|  | $5=\mathrm{G}_{1 / 8{ }^{\prime \prime}}$ |
|  | 6 = Quick fitting tube $\varnothing 6$ |
|  | 8 = Quick fitting tube $\varnothing 8$ |
| (F) | FUNCTION |
|  | 31 = Closed centres |
|  | $32=$ Open centres |
|  | 33 = Pressured centres |
| (V) | VERSION |
|  | $24=$ Solenoid external-Solenoid external |
|  | $35=$ Solenoid-Solenoid |
| (1) | VOLTAGE |
|  | $01=12 \mathrm{VDC}$ |
|  | $02=24 \mathrm{VDC}$ |
|  | $05=24 \mathrm{VAC}$ |
|  | $06=110 \mathrm{VAC}$ |
|  | $07=230 \mathrm{VAC}$ |
|  | $08=24 \mathrm{VDC} 1 \mathrm{~W}$ |
|  | $09=24 \mathrm{VDC}$ downward |
|  | 11 = 12V DC downward |
|  | $12=24 \mathrm{VDC}$ downward |
|  | $15=24 \mathrm{VAC}$ downward |
|  | $16=110 \mathrm{~V}$ AC downward |
|  | $17=230 \mathrm{VAC}$ downward |
|  | $18=24 \mathrm{~V}$ DC 1W downward |
|  | $19=24 \mathrm{~V} D C$ Earth faston downward |

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| Operational characteristics |  |
| :--- | :---: |
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max working pressure (bar) |  |
| Maximum piloting pressure (bar) | $\geq 10$ |
| Temperature ${ }^{\circ} \mathrm{C}$ |  |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{~N} / / \mathrm{min})$ | $-5 \div+50,2 \times \ln$ let pressure $)$ |
| Orifice size $(\mathrm{mm})$ | 450 |


| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | 6 = Quick fitting tube Ø6 |
|  | 8 = Quick fiting tube Ø8 |
| E | FUNCTION |
|  | 44 = 2 Coils 3/2 NC |
|  | $\begin{aligned} & 45=1 \text { Coil } 3 / 2 \text { NC ( } 14 \text { ) }+1 \text { Coil 3/2 } \\ & \text { NO (12) } \\ & \hline \end{aligned}$ |
|  | $55=2$ Coils $3 / 2 \mathrm{NO}$ |
|  | $\begin{aligned} & 54=1 \text { Coil } 3 / 2 \mathrm{NO}(14)+1 \text { Coil } 3 / 2 \\ & \text { NC (12) } \end{aligned}$ |






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Coding: 243A.52.00.19

| Operational characteristics |  |
| :--- | :---: |
| Fluid | Filtered air. Nolubrication needed, if applied it shall be continuous |
| Max working pressure (bar) | 10 |
| Maximum piloting pressure (bar) | 2 |
| Temperature ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{NI} / \mathrm{min})$ | 800 |
| Orifice size $(\mathrm{mm})$ | 7 |
| Pilot ports size | M 5 |




Pneumatic - Differential

Weight 105 g



For dimension " A " see ordering code
Coding: 243A.52.00.16

Pneumatic - Differential (External)


Weight 105 g


For dimension "A" see ordering code

| 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 ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{Nl} / \mathrm{min})$ | 800 |
| Orifice $\operatorname{size}(\mathrm{mm})$ | 7 |
| Pilot ports size | M 5 |


| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | 6 = Quick fitting tube $\varnothing 6$ |
|  | 8 = Quick fitting tube $\varnothing 8$ |



Solenoid-Spring / Differential

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



Coding: 243A.52.00.(V.(T)

| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | 6 = Quick fitting tube $\oslash 6$ |
|  | 8 = Quick fitting tube $\oslash 8$ |
| (V) | VERSION |
|  | 39 = Solenoid - Spring |
|  | 29 = Solenoid external-Spring |
|  | $36=$ Solenoid-Differerential |
|  | 37 = Solenoid-Differential external |
|  | 26 = Solenoid external- <br> Differerential |
|  | 27 = Solenoid external-Differential external |
| (1) | VOLTAGE |
|  | 01 = 12V DC |
|  | $02=24 \mathrm{VDC}$ |
|  | $05=24 \mathrm{VAC}$ |
|  | $06=110 \mathrm{VAC}$ |
|  | $07=230 \mathrm{VAC}$ |
|  | $08=24 \mathrm{VDC} 1 \mathrm{~W}$ |
|  | $09=24 \mathrm{VDC}$ downward |
|  | $11=12 \mathrm{~V}$ DC downward |
|  | $12=24 \mathrm{~V}$ DC downward |
|  | $15=24 \mathrm{~V}$ AC downward |
|  | $16=110 \mathrm{~V} \mathrm{AC} \mathrm{downward}$ |
|  | 17 = 230VAC downward |
|  | $18=24 \mathrm{~V}$ DC 1W downward |
|  | $19=24 \mathrm{~V}$ DC Earth faston downward |

For dimension " A " see ordering code


Weight 140 g

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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 |
| Maximum piloting pressure (bar) | 1.5 |
| Temperature ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{Nl} / \mathrm{min})$ | 800 |
| Orifice $\operatorname{size}(\mathrm{mm})$ | 7 |
| Pilot ports size | M 5 |



Weight 175 g
For dimension " A " see ordering code

Pneumatic - Pneumatic 5 ways 3 connections

| Operational characteristics |  |
| :--- | :---: |
| Fluid | Filtered air. Nolubrication needed, if applied it shall be continuous |
| Max working pressure (bar) | 10 |
| Maximum piloting pressure $(\mathrm{bar})$ | 3 |
| Temperature ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{NI} / \mathrm{min})$ | 650 |
| Orifice size $(\mathrm{mm})$ | 7 |
| Pilot ports size | M 5 |

Coding: 243A.53..18

| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | 6 = Quick fitting tube $\varnothing 6$ |
|  | 8 = Quick fitting tube $\varnothing 8$ |
| F | FUNCTION |
|  | 31 = Closed centres |
|  | 32 = Open centres |
|  | 33 = Pressured centres |




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Solenoid - Solenoid 5/3

| Operational characteristics |  |
| :--- | :---: |
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max working pressure (bar) |  |
| Maximum piloting pressure (bar) | 10 |
| Temperature ${ }^{\circ} \mathrm{C}$ | 3 |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{Nl} / \mathrm{min})$ | $-5 \div+50$ |
| Orifice $\operatorname{size}(\mathrm{mm})$ | 650 |
| Pilot ports size | 7 |

Coding: 243(A.53.E.V.(T)

| (A) | WORKING PORTS SIZE |
| :---: | :---: |
|  | $1=\mathrm{G} 1 / 4^{\prime \prime}$ |
|  | $5=\mathrm{G} 1 / 8^{\prime \prime}$ |
|  | 6 = Quick fitting tube $\varnothing 6$ |
|  | 8 = Quick fitting tube $\varnothing 8$ |
| F | FUNCTION |
|  | 31 = Closed centres |
|  | $32=$ Open centres |
|  | 33 = Pressured centres |
| V | VERSION |
|  | 24 = Solenoid external-Solenoid external |
|  | 35 = Solenoid-Solenoid |
| T | VOLTAGE |
|  | $01=12 \mathrm{VDC}$ |
|  | $02=24 \mathrm{VDC}$ |
|  | $05=24 \mathrm{VAC}$ |
|  | $06=110 \mathrm{VAC}$ |
|  | $07=230 \mathrm{VAC}$ |
|  | $08=24 \mathrm{VDC} 1 \mathrm{~W}$ |
|  | $09=24 \mathrm{VDC}$ downward |
|  | $11=12 \mathrm{VDC}$ downward |
|  | $12=24 \mathrm{~V}$ DC downward |
|  | $15=24 \mathrm{~V}$ AC downward |
|  | $16=110 \mathrm{~V}$ AC downward |
|  | 17 = 230V AC downward |
|  | $18=24 \mathrm{~V}$ DC 1W downward |
|  | 19 = 24V DC Earth faston downward |

MnTy|x

Pneumatic-Pneumatic $2 \times 3 / 2$

| Operational characteristics |  |
| :--- | :---: |
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max working pressure (bar) | 10 |
| Maximum piloting pressure (bar) | $\geq 1,5+(0,2 \times \ln$ nlet pressure $)$ |
| Temperature ${ }^{\circ} \mathrm{C}$ | $-5 \div+50$ |
| Flow rate at bar with $\Delta \mathrm{p}=1(\mathrm{NI} / \mathrm{min})$ | 450 |
| Orifice $\operatorname{size}(\mathrm{mm})$ | 7 |

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


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$14=\frac{4}{5}$

| Operational characteristics |  |
| :--- | :---: |
| Fluid | Filtered air. No lubrication needed, if applied it shall be continuous |
| Max working pressure (bar) |  |
| Maximum piloting pressure (bar) | 10 |
| Temperature ${ }^{\circ} \mathrm{C}$ | $\geq 1,5+(0,2 \times \operatorname{lnlet}$ pressure $)$ |
| Flow rate at 6 bar with $\Delta \mathrm{p}=1(\mathrm{Nl} / \mathrm{min})$ | $-5 \div+50$ |
| Orifice size $(\mathrm{mm})$ | 450 |

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


Weight 190 g
For dimension " A " see ordering code

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WORKING PORTS SIZE
$1=\mathrm{G} 1 / 4^{\prime \prime}$
(A) $5=\mathrm{G} 1 / 8^{\prime \prime}$
$6=$ Quick fitting tube $\varnothing 6$
8 = Quick fitting tube $\varnothing 8$
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
$01=12 \mathrm{VDC}$
$02=24 \mathrm{VDC}$
$05=24 \mathrm{VAC}$
$06=110 \mathrm{VAC}$
$07=230 \mathrm{VAC}$
$08=24 \mathrm{VDC} 1 \mathrm{Watt}$
(T) $09=24 \mathrm{VDC}$ downward
$11=12 \mathrm{~V} D C$ downward
$12=24 \mathrm{VDC}$ downward
$15=24 \mathrm{VAC}$ downward
$16=110 \mathrm{VAC}$ downward
$17=230 \mathrm{VAC}$ downward
$18=24 \mathrm{VDC} 1$ Watt downward
$19=24 V D C$ Earth faston downward

$\left.\sqrt{94}=\frac{4}{5} \right\rvert\,$

## Modular base

Weight 85 g


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Coding: $2430 .(V$



Inlet base


Coding: 2430.V


Weight 120 g


Weight 125 g


Weight 30 g
to be assembled instead of a valve


