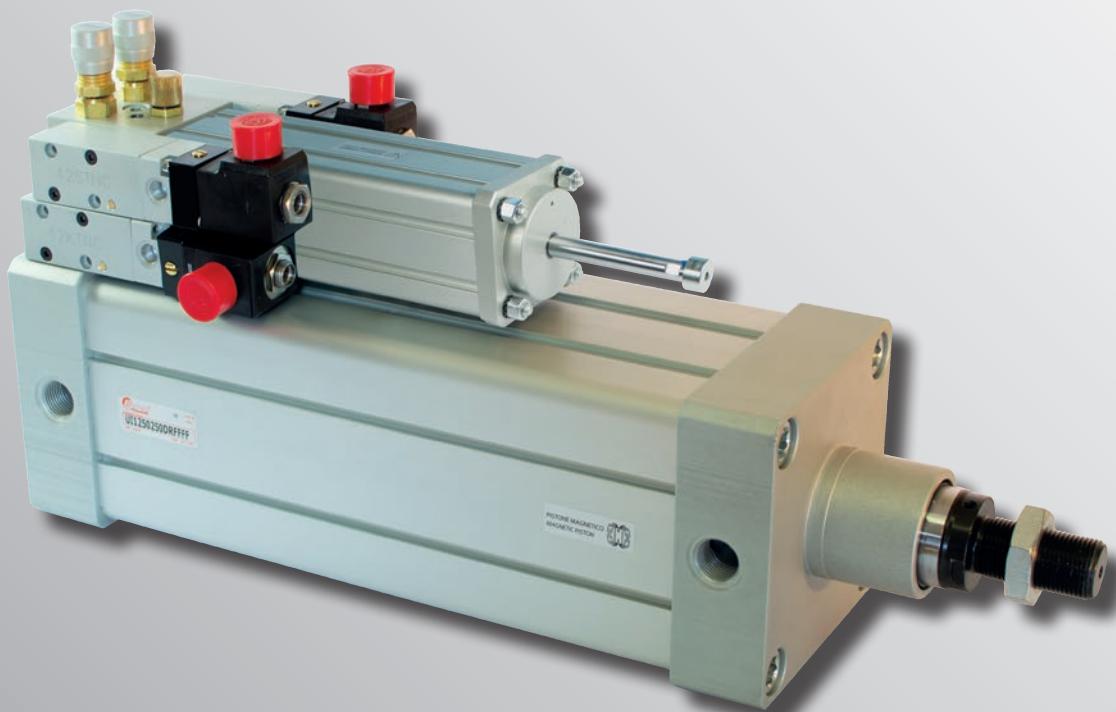


UI Series

Pneumo-hydraulic cylinders



*Mounting dimensions
according to ISO 15552*

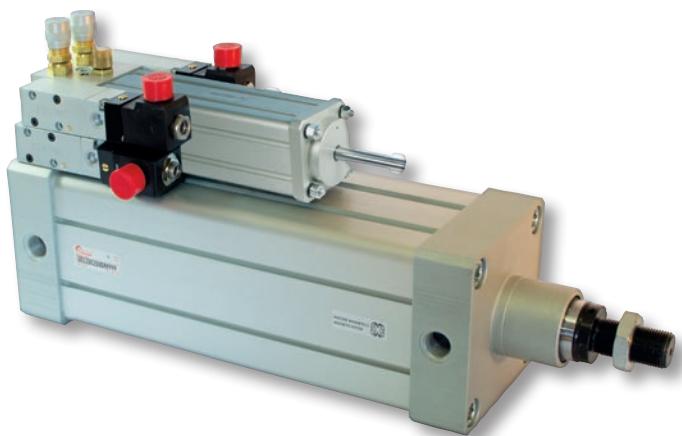




Pneumo-hydraulic cylinders with mounting dimensions according to ISO 15552 standards Series UI

Bores Ø : 50 - 63 - 80 - 100 - 125 mm.

SERIES UI



Pneumatic cylinder with dimensions according to ISO 15552 standards

Adjustment of the sliding speed and stop of the piston rod

SKIP and STOP valves 2/2 or 2/2 with regulator Solenoid or pneumatic actuated, NC/NÖ

Available the option of level sensor on the oil tank

End stroke hydraulic cushionings (not adjustable)

Caps in aluminium alloy neuter anodized

Profiled tube in anodized aluminium, internally gauged

Piston rod in steel E355, grounded and hard chromium plated

Piston in aluminium with magnetic ring

"T" grooves for sensors, on the side

Sensors and mounting accessories

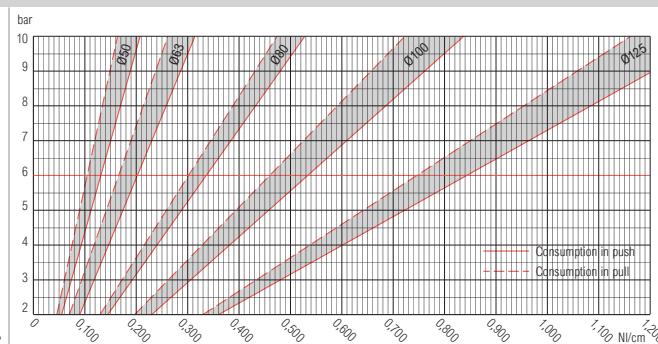
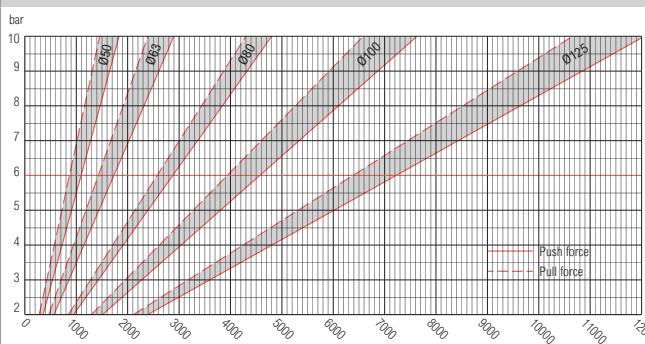
TECHNICAL FEATURES

| | |
|--|--|
| Construction | Caps fixed on profiled tube by bolts, hydraulic cushioning integrated |
| Function | Double acting |
| Standard materials | Caps in aluminium alloy neuter anodized, piston rod in steel E355 grounded and hard chromium plated, profiled tube in anodized aluminium, internally gauged, piston in aluminium, seals in NBR - PU. |
| Note about the materials | According to Directive REACH (1907/2006/CE and s.a.s.) |
| Bores | Ø 50, 63, 80, 100, 125 mm |
| Standard strokes at stock | 50, 100, 150, 200, 250, 300, 350, 400, 500 mm |
| Standard strokes available on request | 50 ÷ 1100 mm |
| Special strokes | To be agreed with the Commercial Department |
| Working temperature | 0 ÷ 50°C (-10°C with dry air in order to avoid ice formation) |
| Working pressure | 2 ÷ 10 bar |
| Operating pressure of the valves | Minimum 3,5 bar |
| Fluid of the pneumatic circuit | Filtered air, without lubrication, according to ISO 8573-1:2010 [7:4:4] |
| Fluid of the hydraulic circuit | Hydraulic oil ISO 46 |
| Speed | See the theoretical diagram of the speeds (page 2.1.05.5) |

TECHNICAL DATA

| Bore Ø (mm) | 50 | 63 | 80 | 100 | 125 |
|---|-----------|-----------|-----------|-----------|---------|
| Ports | 1/4" | 3/8" | 3/8" | 1/2" | 1/2" |
| Piston rod Ø (mm) | 25 | 30 | 30 | 40 | 45 |
| Thread of the piston rod | M16 x 1,5 | M16 x 1,5 | M20 x 1,5 | M20 x 1,5 | M27 x 2 |
| Theoretical push force at 6 bar (N) | 1110 | 1750 | 2895 | 4592 | 7242 |
| Theoretical pull force at 6 bar (N) | 884 | 1446 | 2592 | 3958 | 6409 |
| Air consumption at 6 bar in push (NI/cm) | 0,130 | 0,204 | 0,338 | 0,536 | 0,845 |
| Air consumption at 6 bar in pull (NI/cm) | 0,103 | 0,169 | 0,302 | 0,462 | 0,748 |
| Theoretical speed at 6 bar in push (mm/sec) | 530 | 560 | 650 | 250 | 220 |
| Theoretical speed at 6 bar in pull (mm/sec) | 160 | 170 | 215 | 150 | 175 |

THEORETICAL DIAGRAM OF THE FORCES AND OF THE AIR CONSUMPTIONS





PNEUMO-HYDRAULIC UNITS SERIES UI

The widest range of pneumo-hydraulic units on the market

With the new series UI of pneumo-hydraulic units **BONESI PNEUMATIK** enlarges its range of hydraulic control units, developed and completely produced at its Italian headquarters, for the applications where an accurate handling of the working stroke is required.

The design features of such new series represent the summary of two applied techniques:

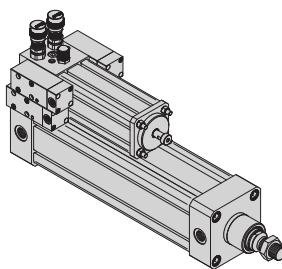
- The compressed air as driving power;
- The hydraulic system as control fluid.

The system offers several functions on the working strokes:

- Governed and steady speeds with changing workloads and inlet air pressure;
- Gradual end-stroke hydraulic cushionings to dissipate the dynamic mass energy;
- Functions of quick stroke (SKIP), regulated stroke and STOP on the forward and return strokes, manageable using electric or pneumatic impulses

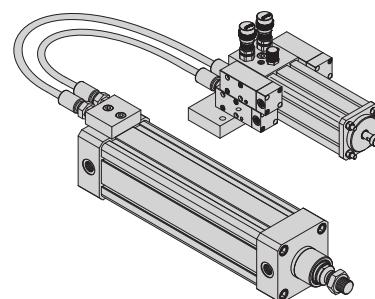
UI version

Pneumatic cylinder with coaxial hydraulic control
Standard, magnetic, manifold group and tank mounted
on the rear cap



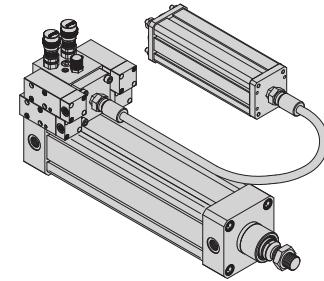
UT version

Pneumatic cylinder with coaxial hydraulic control
Standard, magnetic, manifold group and tank remoted



UB version

Pneumatic cylinder with coaxial hydraulic control
Standard, magnetic, manifold group mounted on the
rear cap, tank remoted

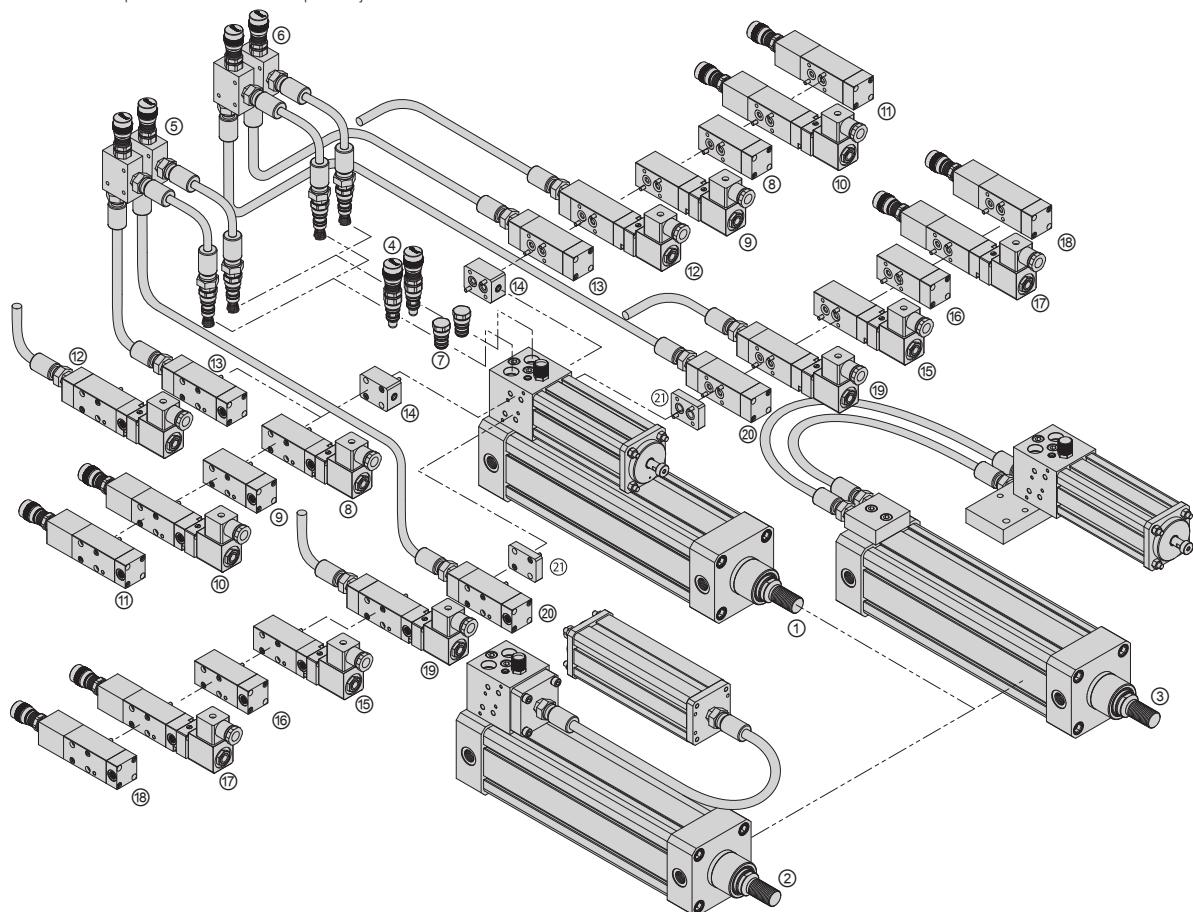


POS DESCRIPTION

- ① Units series UI
- ② Units series UT
- ③ Units series UB
- ④ Speed regulator
- ⑤ Speed regulator remoted on STOP valve
- ⑥ Speed regulator remoted on SKIP valve
- ⑦ Without speed regulators
- ⑧ STOP valve solenoid actuated
- ⑨ STOP valve pneumatic actuated
- ⑩ DOUBLE SKIP valve solenoid actuated with speed adjustment
- ⑪ DOUBLE SKIP valve pneumatic actuated with speed adjustment

POS DESCRIPTION

- ⑫ DOUBLE SKIP valve solenoid actuated with remoted speed adjustment
- ⑬ DOUBLE SKIP valve pneumatic actuated with remoted speed adjustment
- ⑭ Without STOP valves
- ⑮ SKIP valve solenoid actuated
- ⑯ SKIP valve pneumatic actuated
- ⑰ SKIP valve solenoid actuated with speed adjustment
- ⑱ SKIP valve pneumatic actuated with speed adjustment
- ⑲ SKIP valve solenoid actuated with remoted speed adjustment
- ⑳ SKIP valve pneumatic actuated with remoted speed adjustment
- ㉑ Without SKIP valves



PRINCIPLES OF OPERATION OF THE SKIP AND STOP CONTROL VALVES

Wide possibility of configurations as standard

The new pneumo-hydraulic units series UI, proposed by **BONESI PNEUMATIK**, have a wide range of SKIP and STOP control valves that allow to customize the functions of the unit and to regulate the speed and the position of the piston rod during all the working stroke.

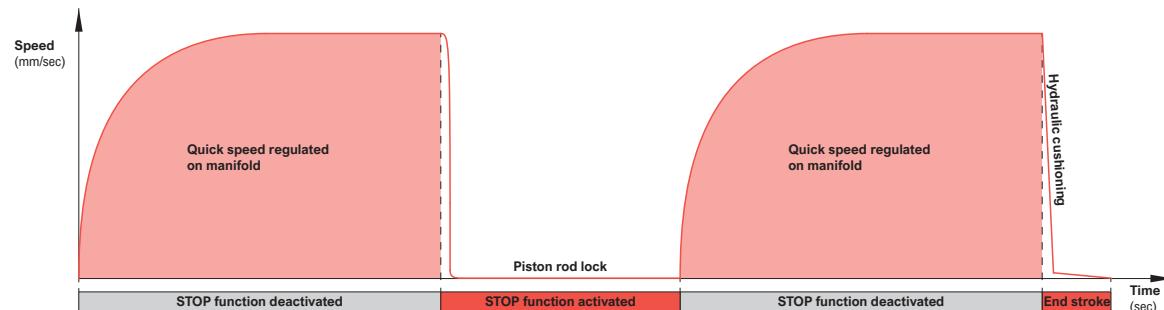
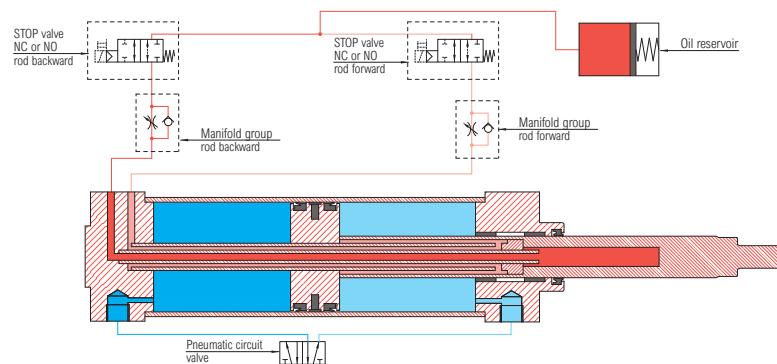
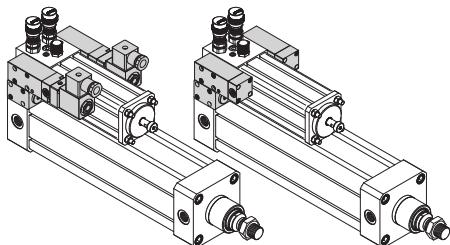
Thanks to an accurate technical design the functions of the pneumo-hydraulic unit can be customized by the customer placing the order and the consequent combining in the mounting of the SKIP and STOP control valves and of the speed regulators.

This allows an higher flexibility in the configurations, customizing the needs, still using components of standard production.

Here following some of the most common functions proposed by **BONESI PNEUMATIK**. For different needs, please, contact our technical-commercial staff.

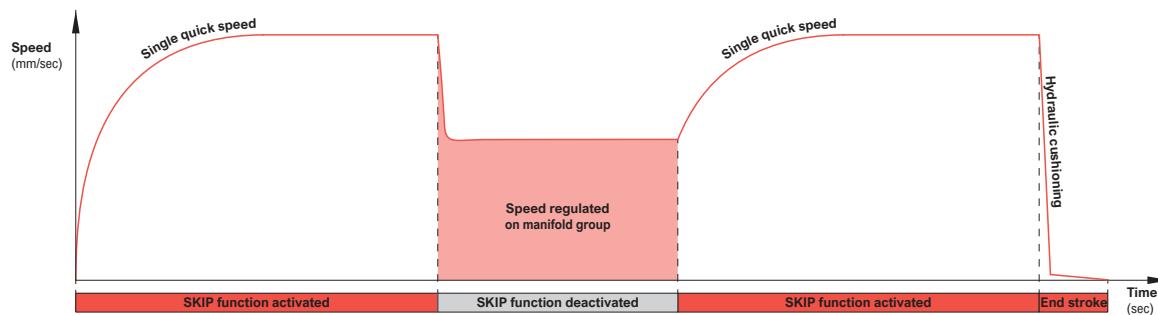
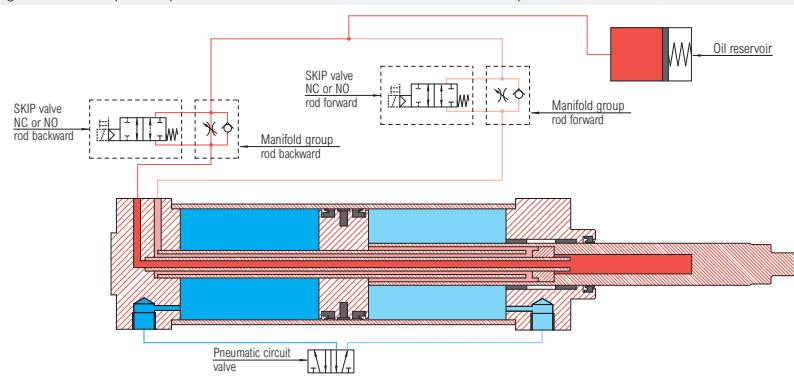
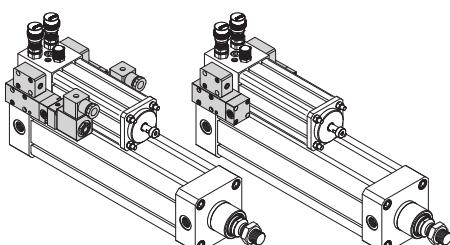
UNIT WITH STOP FUNCTION VALVES

Hydraulic speed regulation separated in forward and return strokes. STOP function. Solenoid or pneumatic actuators, NC or NO.



UNIT WITH STOP FUNCTION VALVES

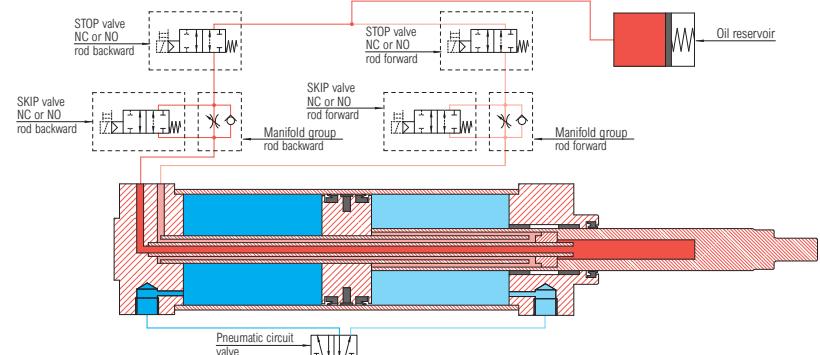
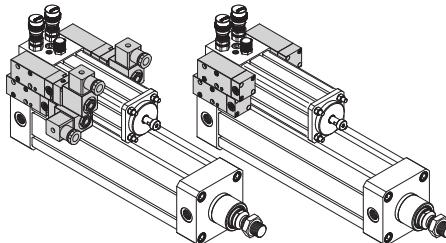
Quick speed in forward and return strokes. SKIP function with hydraulic regulation of the speed separated in forward and return strokes. Solenoid or pneumatic actuators, NC or NO.



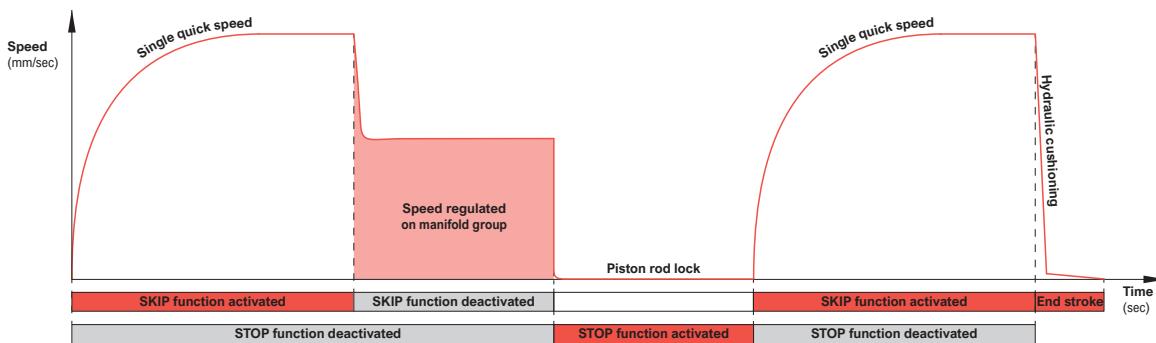
PRINCIPLES OF OPERATION OF THE SKIP AND STOP CONTROL VALVES

UNIT WITH SKIP AND STOP FUNCTION VALVES

Quick speed in forward and return strokes. SKIP function with hydraulic regulation of the speed separated in forward and return strokes. STOP function. Solenoid or pneumatic actuators, NC or NO.

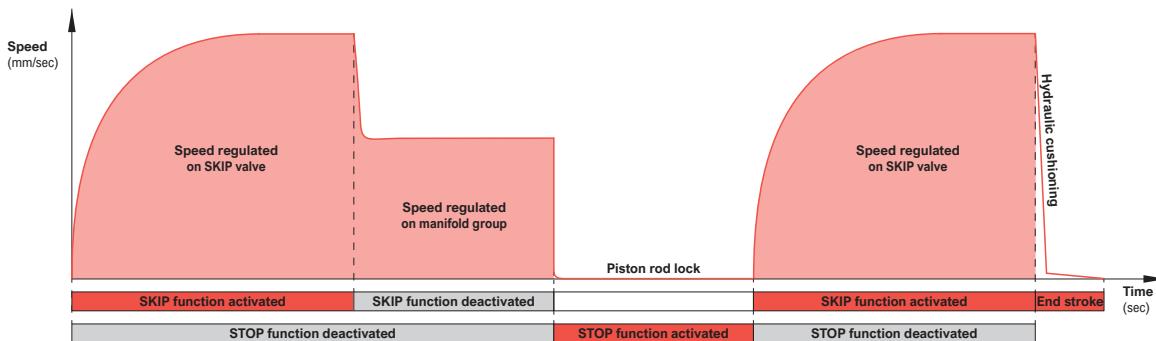
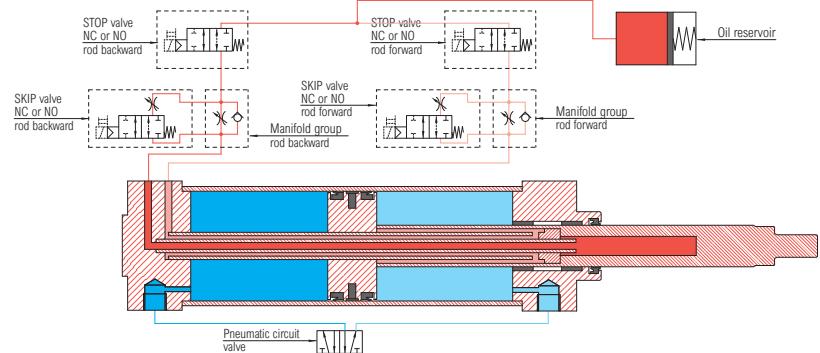
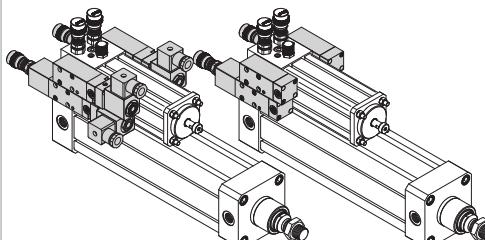


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UNIT WITH ADJUSTABLE SKIP AND STOP FUNCTION VALVES

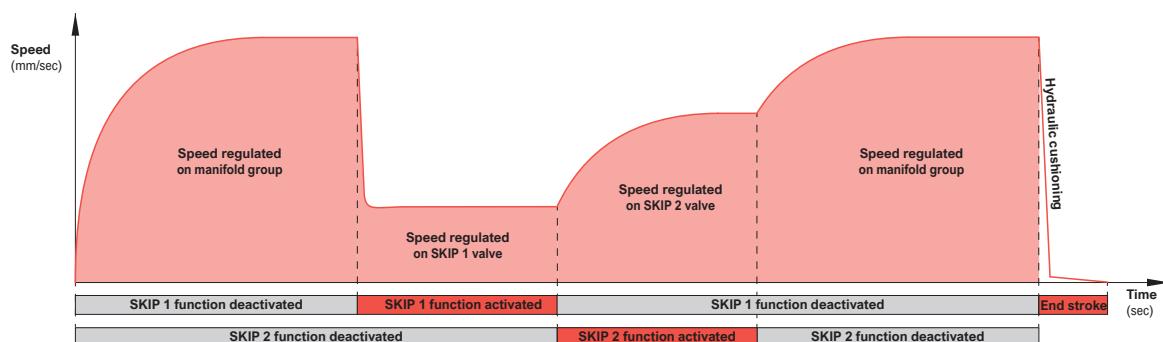
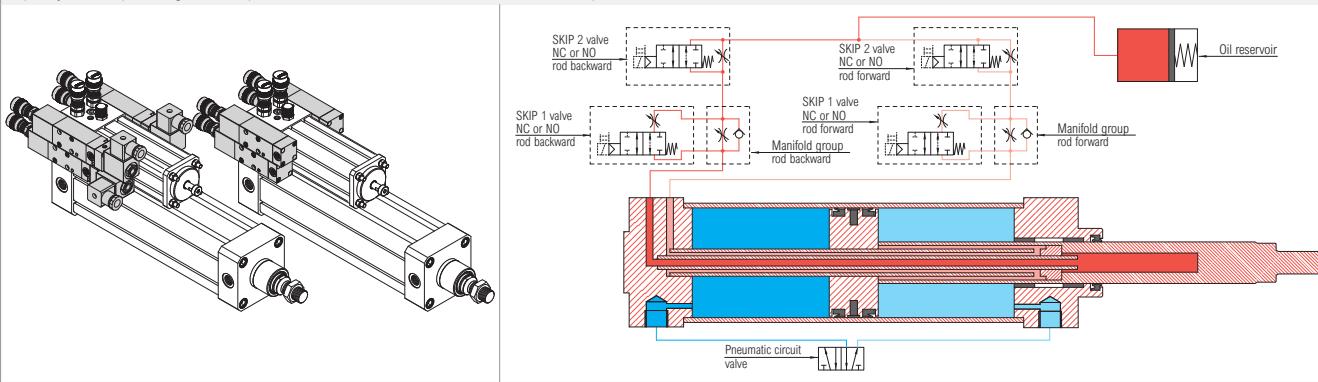
Double hydraulic speed regulation separated in forward and return strokes. STOP function. Solenoid or pneumatic actuators, NC or NO.



PRINCIPLES OF OPERATION OF THE SKIP AND STOP CONTROL VALVES

UNIT WITH DOUBLE ADJUSTABLE SKIP FUNCTION VALVES

Triple hydraulic speed regulation separated in forward and return strokes. Solenoid or pneumatic actuators, NC or NO.



SPEED AND PRECISION OF POSITIONING

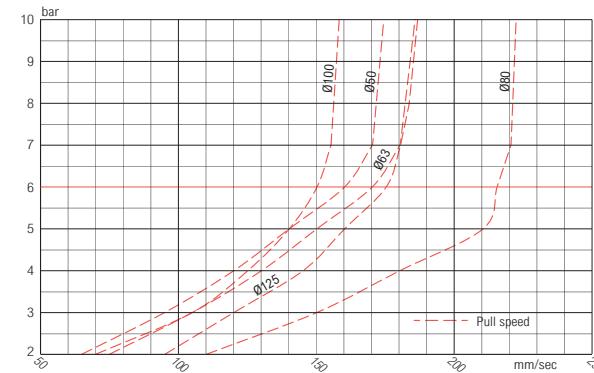
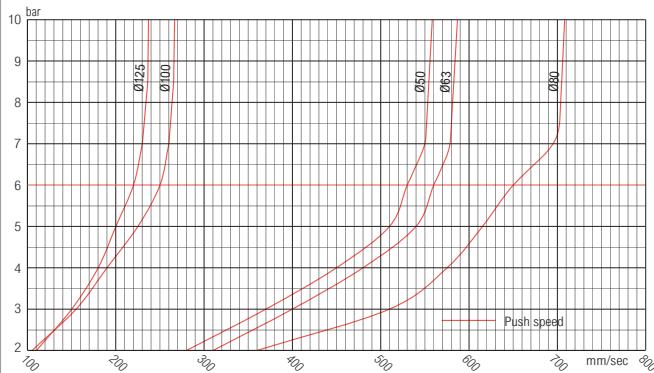
The average figures mentioned on the following diagrams give indications about the speed and stop stroke in function of the bore and the inlet pressure of the unit, at the ambient temperature of 20°C, with pneumatic inlet valves with nominal flow capacity equal to the connection on the caps of the unit.

Different ambient working conditions or particular pneumatic circuitings can produce values different from those mentioned on the diagrams.

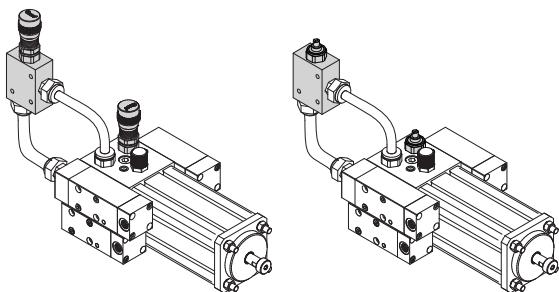
It is suggested to use the STOP valve with a SKIP valve in order to reduce the speed near the stop position. This guarantees a constant stop position equal to $\pm 0,3$ mm with SKIP valve setted to 10 mm/sec.

Our technical staff is available for further explanations or to develop solutions more useful to the customer.

THEORETICAL DIAGRAM OF THE SPEEDS



REGULATION OF THE SPEED STANDARD AND PRECISE

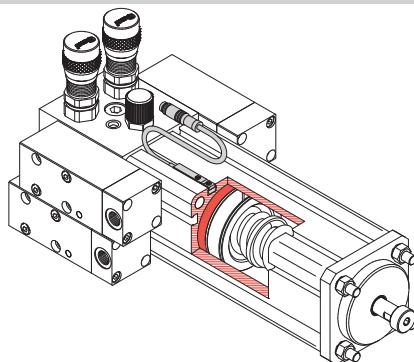


The pneumatic-hydraulic **UI** units can be equipped with different types of hydraulic speed regulators.

All regulators can be supplied either in the version assembled on the manifold group or in the version remoted, for panel mounting or in case the pneumatic-hydraulic unit is located in difficult position. In both cases, manifold or remoted, the regulators can be supplied with protrusion standard or reduced.

In case an higher precision in the regulation of the speed should be necessary, **BONESI PNEUMATIK** has developed a specific regulator (available exclusively with standard dimensions) that can be used either in the version assembled on the manifold or in the version remoted.

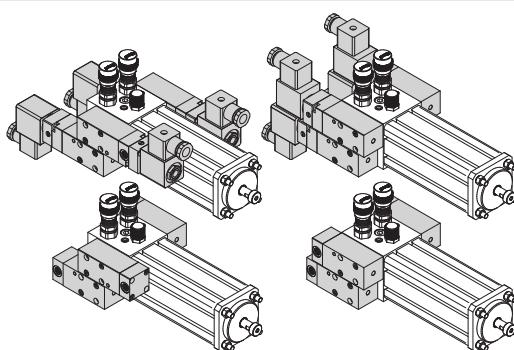
OPTIONS



Control of oil level

All the **UI** pneumo-hydraulic units are equipped, as standard, of a level indicator at the end side of the tank that allows the quick control of the quantity of the oil in the tank.

The new **UI** pneumo-hydraulic units give the possibility to mount a magnetic ring on the piston located inside the tank and by a sensor to send an electrical impulse to a controller of the oil level in the unit.



Customization in mounting the control valves

Advantage of the new **UI** series of pneumo-hydraulic units of **BONESI PNEUMATIK** is the possibility to customize the mounting of the SKIP and STOP valves, located on the side of the manifold group, in order to help the needs of the customer.

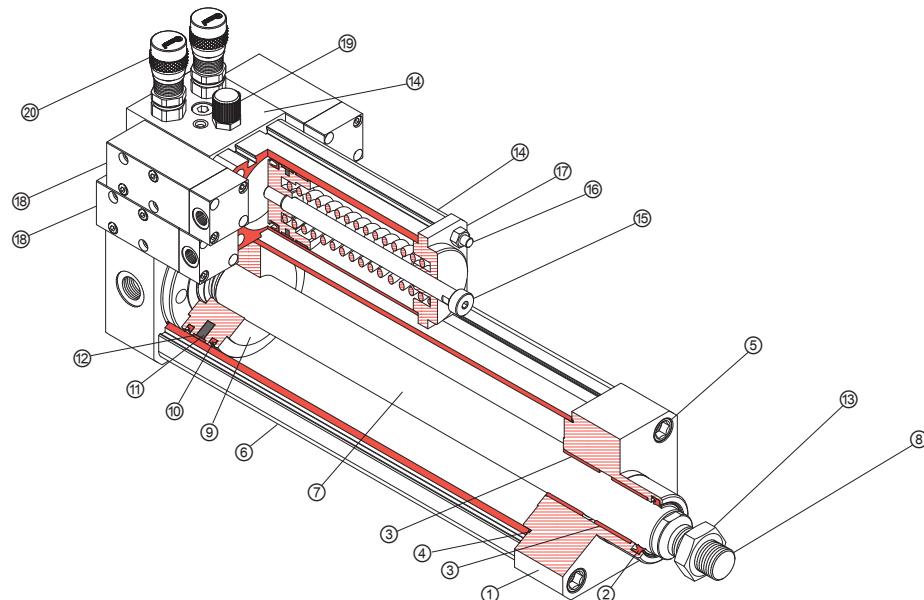
Unless different instructions placing the order the control and the regulation valves will be assembled reducing the dimension of the unit.

On the contrary : in agreement with the Commercial Department placing the order it is possible to specify a different assembling.

(On the side : some examples of assembling)

STANDARD MATERIALS

| POS | DESCRIPTION | MATERIAL | POS | DESCRIPTION | MATERIAL |
|-----|----------------------------|---|-----|------------------------------|--|
| ① | Caps | Aluminium alloy neuter anodized | ⑫ | Guide slidingig | Carbographite |
| ② | Piston rod seal | Nitril rubber (NBR) | ⑬ | Piston rod nut | Zinc plated steel |
| ③ | Guide bushing | Steel + PTFE | ⑭ | Manifold group | Aluminium alloy neuter anodized |
| ④ | Cap seal | Nitril rubber (NBR) | ⑮ | Tank rod | C45 steel chromium plated 20 µm |
| ⑤ | Cap fixing bolt | Zinc plated steel | ⑯ | Tank nuts and tie-rods | Zinc plated steel |
| ⑥ | Actuator profiled tube | Extruded aluminium EN AW-6060 T6, gauged and anodized | ⑰ | Tank caps | Aluminium alloy neuter anodized |
| ⑦ | Piston rod | Chromium plated steel E355 | ⑱ | SKIP and STOP valves | Aluminium alloy neuter anodized |
| ⑧ | End part of the piston rod | Manganese phosphatized steel | ⑲ | Plug | Brass EN 12164 |
| ⑨ | Piston | Aluminium alloy | ⑳ | Regulation group | Brass EN 12164 + Aluminium alloy neuter anodized |
| ⑩ | Piston seal | Poliurethane (PU) | ㉑ | Magnet for control oil level | Plastoferrite |
| ㉒ | Magnet | Plastoferrite | ㉓ | Spring | Spring steel |





ORDERING CODE

(Example of code)

UI | 050 | 0100 | D | R | C | C | N | N |

SERIES

UI = Manifold group and tank mounted on the rear cap

UT = Manifold group and tank remoted *

UB = Manifold group mounted on the rear cap, tank remoted *

BORE

050 = Ø 50 mm

063 = Ø 63 mm

080 = Ø 80 mm

100 = Ø 100 mm

125 = Ø 125 mm

PISTON ROD STROKE

See table "Standard strokes"; other strokes on request

END STROKE CUSHIONING

D = Double acting cylinder with double cushioning

U = Double acting cylinder with cushioning only on piston rod in forward

R = Double acting cylinder with cushioning only on piston rod in return

N = Double acting cylinder without cushionings

SPEED REGULATION

R = Double hydraulic regulation

S = Single hydraulic regulation, in forward

T = Single hydraulic regulation, in return

U = Double hydraulic regulation (small size)

V = Single hydraulic regulation, in forward (small size)

Z = Single hydraulic regulation, in return (small size)

F = Double hydraulic regulation

G = Single hydraulic regulation, in forward

H = Single hydraulic regulation, in return

A = Double hydraulic regulation

B = Single hydraulic regulation, in forward

C = Single hydraulic regulation, in return

W = Double hydraulic regulation (small size)

X = Single hydraulic regulation, in forward (small size)

Y = Single hydraulic regulation, in return (small size)

I = Double hydraulic regulation

L = Single hydraulic regulation, in forward

M = Single hydraulic regulation, in return

N = Without regulation

CONTROL VALVES SKIP / STOP

PN. A = Pneumatic operated valve N.O.

B = Pneumatic operated valve N.C.

C = Solenoid operated valve N.O. 12Vdc

D = Solenoid operated valve N.C. 12Vdc

E = Solenoid operated valve N.O. 24Vdc

F = Solenoid operated valve N.C. 24Vdc

G = Solenoid operated valve N.O. 48Vdc

H = Solenoid operated valve N.C. 48Vdc

I = Solenoid operated valve N.O. 110Vdc

J = Solenoid operated valve N.C. 110Vdc

K = Solenoid operated valve N.O. 24Vac

L = Solenoid operated valve N.C. 24Vac

M = Solenoid operated valve N.O. 48Vac

P = Solenoid operated valve N.C. 48Vac

Q = Solenoid operated valve N.O. 110Vac

R = Solenoid operated valve N.C. 110Vac

S = Solenoid operated valve N.O. 220Vac

T = Solenoid operated valve N.C. 220Vac

N = Without control valve

Electrical features: see page 2.1.05.28

ACTUATOR PNEUMATIC PORTS

NULL = Standard (on the left side)

D = Optional (on the right side)

OPTIONS

NULL = Standard

P = Customized (to be agreed with the commercial department):

- Oil tank with magnetic piston for mounting the level sensor
- Customized mounting of the control valves

* Standard lenght of the remote tubings: 500 mm. Different lengths must be specified placing the order.

** Standard lenght of the remote tubings: 1000 mm. Different lengths must be specified placing the order.

Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.

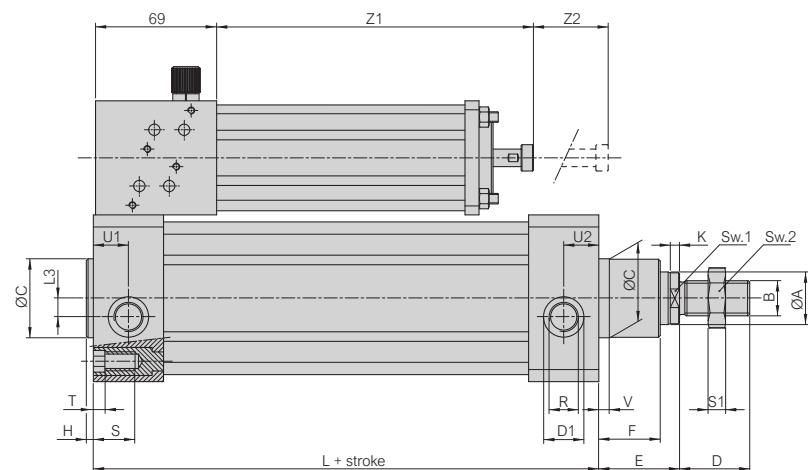
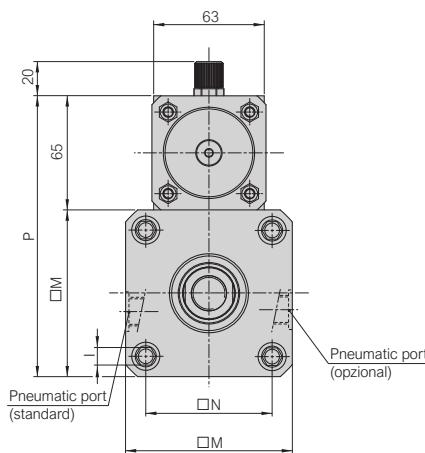


UI...



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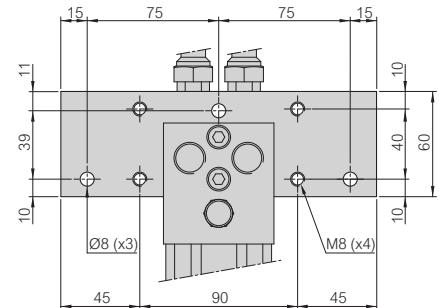
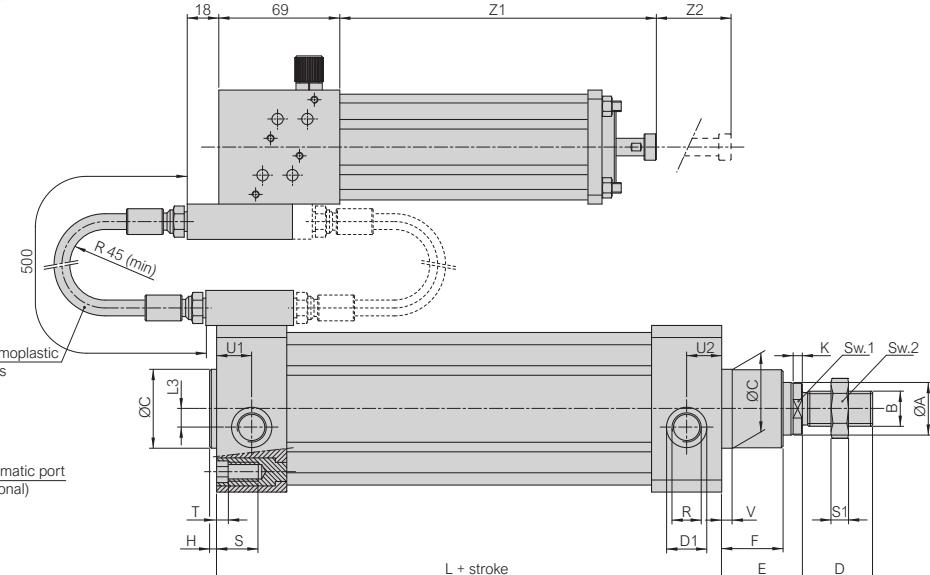
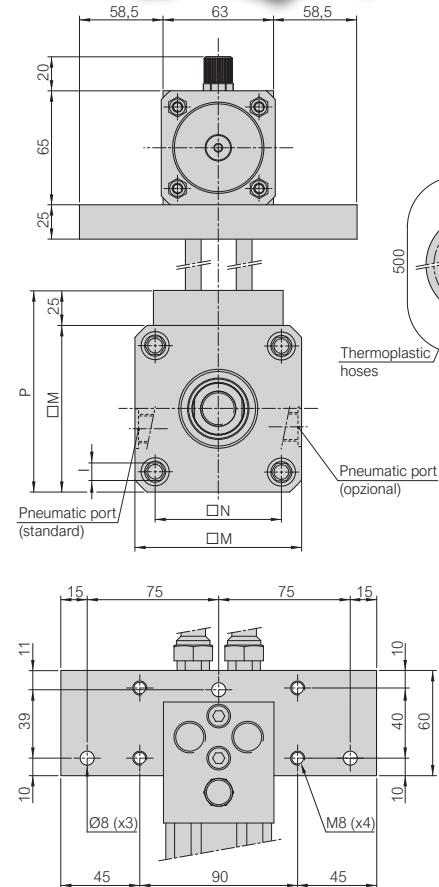
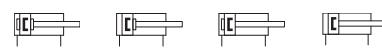
PNEUMO-HYDRAULIC ACTUATORS



| Bore | $\varnothing A$ | B | $\varnothing C$ | D | D1 | E | F | H | I | K | L+ | L3 | $\square M$ | $\square N$ | P | R | S | S1 | SW1 | SW2 | T | U1 | U2 | V | | | |
|----------|-----------------|------------------|------------------|-------------------|------------------|------------------|-------------------|----|-----|-----|-----|-----|-------------|-------------|-----|------|-----------|-----|----------|-----|------|----|----|-----|------|------|----|
| mm | f7 | | d11 | 0 -2 | | | | | | | | | | | | | | Min | Ch | Ch | | | | | | | |
| 50 | 25 | M16 x 1,5 | 40 | 32 | 19 | 37 | $\pm 1,4$ | 26 | 4 | M8 | 5 | 106 | $\pm 0,7$ | 8 | 65 | 46,5 | $\pm 0,6$ | 130 | Gas 1/4" | 20 | 8 | 23 | 23 | 5,5 | 26 | 20 | 10 |
| 63 | 30 | M16 x 1,5 | 45 | 32 | 23 | 37 | | 26 | 4 | M8 | 5 | 121 | $\pm 0,8$ | 11 | 75 | 56,5 | | 140 | Gas 3/8" | 22 | 8 | 27 | 23 | 8 | 22 | 23 | 4 |
| 80 | 30 | M20 x 1,5 | 45 | 40 | 23 | 46 | $\pm 1,8$ | 35 | 4 | M10 | 5 | 128 | | 0 | 95 | 72 | $\pm 0,7$ | 160 | Gas 3/8" | 20 | 10 | 27 | 26 | 6 | 20 | 20 | 6 |
| 100 | 40 | M20 x 1,5 | 55 | 40 | 27 | 51 | | 38 | 4 | M10 | 6 | 138 | ± 1 | 0 | 110 | 89 | | 175 | Gas 1/2" | 23 | 10 | 36 | 28 | 9 | 21,5 | 21,5 | 5 |
| 125 | 45 | M27 x 2 | 60 | 54 | 27 | 65 | $\pm 2,2$ | 50 | 6 | M12 | 6 | 160 | | 0 | 140 | 110 | $\pm 1,1$ | 205 | Gas 1/2" | 28 | 13,5 | 41 | 41 | 10 | 25 | 25 | 8 |
| Bore | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | | | |
| mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 630 | Stroke 631 ÷ 885 | Stroke 886 ÷ 1100 | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 130 | 10 | 170 | 38 | 210 | 53 | 232 | 63 | | | | | | | | | | | | | | | | | | | |
| Bore | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | | | |
| mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 330 | Stroke 331 ÷ 480 | Stroke 481 ÷ 575 | Stroke 576 ÷ 675 | Stroke 676 ÷ 850 | Stroke 851 ÷ 1180 | | | | | | | | | | | | | | | | | | | | |
| 63 ÷ 125 | 130 | 10 | 170 | 38 | 210 | 53 | 232 | 63 | 278 | 80 | 375 | 120 | 575 | 168 | | | | | | | | | | | | | |



UT...



| Bore | Ø A | B | Ø C | D | D1 | E | F | H | I | K | L+ | L3 | □ M | □ N | P | R | S | S1 | SW1 | SW2 | T | U1 | U2 | V | | | |
|------|-----|-----------|-----|----|----|----|------|----|---|-----|----|-----|------|-----|-----|------|------|-----|----------|-----|------|----|----|-----|------|------|----|
| mm | f7 | | d11 | -2 | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 25 | M16 x 1,5 | 40 | 32 | 19 | 37 | ±1,4 | 26 | 4 | M8 | 5 | 106 | ±0,7 | 8 | 65 | 46,5 | ±0,6 | 85 | Gas 1/4" | 20 | 8 | 23 | 23 | 5,5 | 26 | 20 | 10 |
| 63 | 30 | M16 x 1,5 | 45 | 32 | 23 | 37 | | 26 | 4 | M8 | 5 | 121 | ±0,8 | 11 | 75 | 56,5 | | 95 | Gas 3/8" | 22 | 8 | 27 | 23 | 8 | 22 | 23 | 4 |
| 80 | 30 | M20 x 1,5 | 45 | 40 | 23 | 46 | ±1,8 | 35 | 4 | M10 | 5 | 128 | | 0 | 95 | 72 | ±0,7 | 115 | Gas 3/8" | 20 | 10 | 27 | 26 | 6 | 20 | 20 | 6 |
| 100 | 40 | M20 x 1,5 | 55 | 40 | 27 | 51 | | 38 | 4 | M10 | 6 | 138 | ±1 | 0 | 110 | 89 | | 130 | Gas 1/2" | 23 | 10 | 36 | 28 | 9 | 21,5 | 21,5 | 5 |
| 125 | 45 | M27 x 2 | 60 | 54 | 27 | 65 | ±2,2 | 50 | 6 | M12 | 6 | 160 | ±1 | 0 | 140 | 110 | ±1,1 | 160 | Gas 1/2" | 28 | 13,5 | 41 | 41 | 10 | 25 | 25 | 8 |

| Bore | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 |
|------|-----------------|------------------|------------------|-------------------|-----|----|-----|----|
| mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 630 | Stroke 631 ÷ 885 | Stroke 886 ÷ 1100 | | | | |
| 50 | 130 | 10 | 170 | 38 | 210 | 53 | 232 | 63 |

| Bore | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 |
|----------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|----|-----|----|-----|-----|-----|-----|----|----|
| mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 330 | Stroke 331 ÷ 480 | Stroke 481 ÷ 575 | Stroke 576 ÷ 675 | Stroke 676 ÷ 850 | Stroke 851 ÷ 1180 | | | | | | | | | |
| 63 ÷ 125 | 130 | 10 | 170 | 38 | 210 | 53 | 232 | 63 | 278 | 80 | 375 | 120 | 575 | 168 | | |

THERMOPLASTIC HOSE

Flexible thermoplastic hose for high pressure hydraulic applications SAE 100 R7 - Standard lenght = 500mm (x2) - Different lenghts must be specified placing the order.

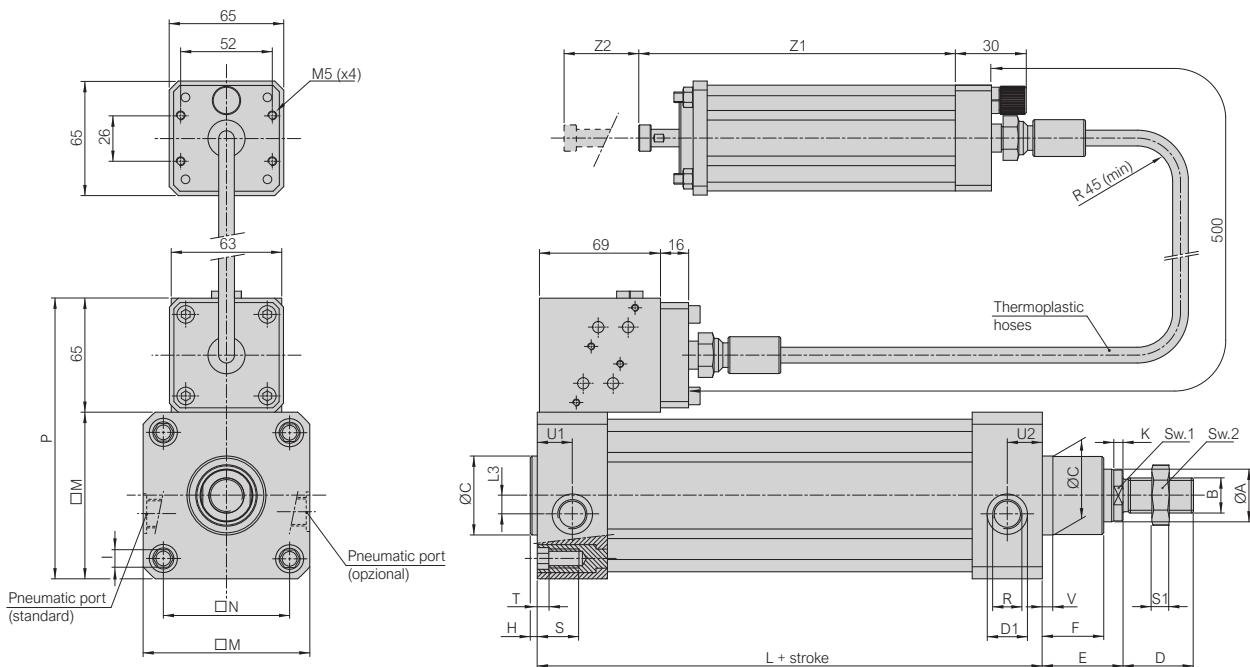


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2

PNEUMO-HYDRAULIC ACTUATORS

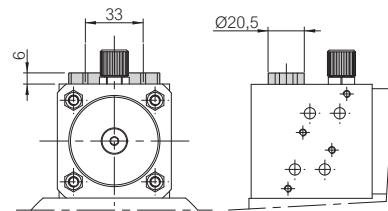
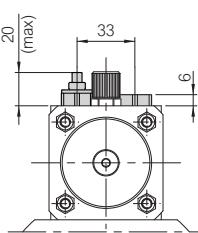
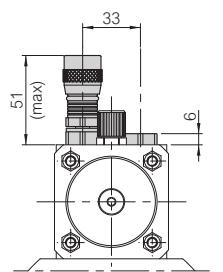
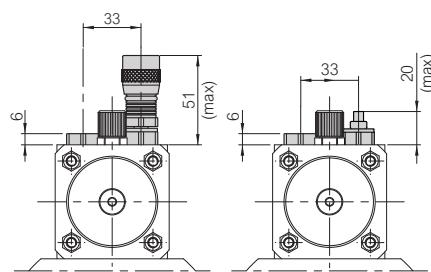
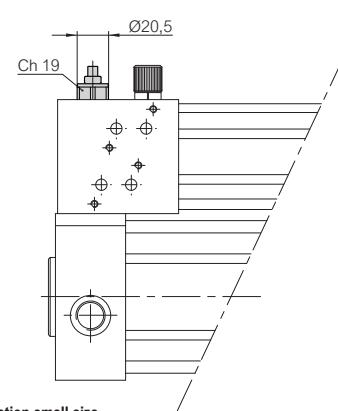
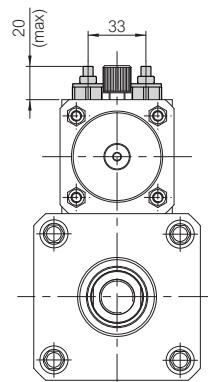
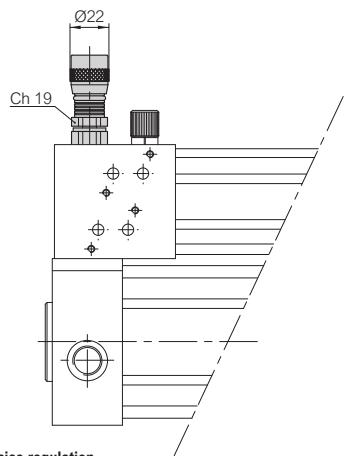
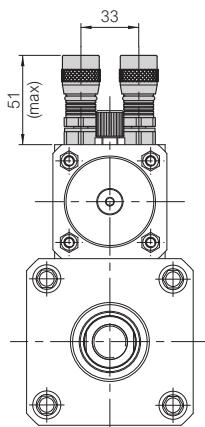


| Bore | Ø A | B | Ø C | D | D1 | E | F | H | I | K | L+ | L3 | Ø M | Ø N | P | R | S | S1 | SW1 | SW2 | T | U1 | U2 | V | | | |
|---|-----------------|------------------|------------------|-------------------|------------------|------------------|-------------------|----|-----|-----|-----|-----|------|-----|-----|------|------|-----|----------|-----|------|----|----|-----|------|------|----|
| mm | f7 | | d11 | 0 -2 | | | | | | | | | | | | | | Min | Ch | Ch | | | | | | | |
| 50 | 25 | M16 x 1,5 | 40 | 32 | 19 | 37 | ±1,4 | 26 | 4 | M8 | 5 | 106 | ±0,7 | 8 | 65 | 46,5 | ±0,6 | 85 | Gas 1/4" | 20 | 8 | 23 | 23 | 5,5 | 26 | 20 | 10 |
| 63 | 30 | M16 x 1,5 | 45 | 32 | 23 | 37 | | 26 | 4 | M8 | 5 | 121 | ±0,8 | 11 | 75 | 56,5 | | 95 | Gas 3/8" | 22 | 8 | 27 | 23 | 8 | 22 | 23 | 4 |
| 80 | 30 | M20 x 1,5 | 45 | 40 | 23 | 46 | ±1,8 | 35 | 4 | M10 | 5 | 128 | | 0 | 95 | 72 | ±0,7 | 115 | Gas 3/8" | 20 | 10 | 27 | 26 | 6 | 20 | 20 | 6 |
| 100 | 40 | M20 x 1,5 | 55 | 40 | 27 | 51 | | 38 | 4 | M10 | 6 | 138 | ±1 | 0 | 110 | 89 | | 130 | Gas 1/2" | 23 | 10 | 36 | 28 | 9 | 21,5 | 21,5 | 5 |
| 125 | 45 | M27 x 2 | 60 | 54 | 27 | 65 | ±2,2 | 50 | 6 | M12 | 6 | 160 | | 0 | 140 | 110 | ±1,1 | 160 | Gas 1/2" | 28 | 13,5 | 41 | 41 | 10 | 25 | 25 | 8 |
| Bore | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | | | |
| mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 630 | Stroke 631 ÷ 885 | Stroke 886 ÷ 1180 | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 130 | 10 | 170 | 38 | 210 | 53 | 232 | 63 | | | | | | | | | | | | | | | | | | | |
| Bore | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | Z1 | Z2 | | | |
| mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 330 | Stroke 331 ÷ 480 | Stroke 481 ÷ 575 | Stroke 576 ÷ 675 | Stroke 676 ÷ 850 | Stroke 851 ÷ 1180 | | | | | | | | | | | | | | | | | | | | |
| 63 ÷ 125 | 130 | 10 | 170 | 38 | 210 | 53 | 232 | 63 | 278 | 80 | 375 | 120 | 575 | 168 | | | | | | | | | | | | | |
| THERMOPLASTIC HOSE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flexible thermoplastic hose for high pressure hydraulic applications SAE 100 R7 - Standard lenght = 500mm (x1) - Different lenghts must be specified placing the order. | | | | | | | | | | | | | | | | | | | | | | | | | | | |

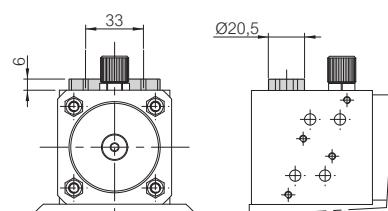
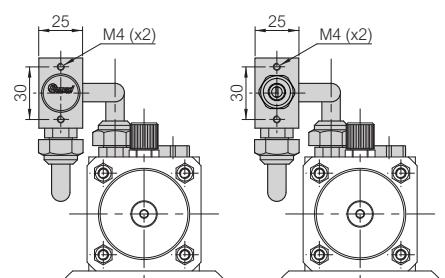
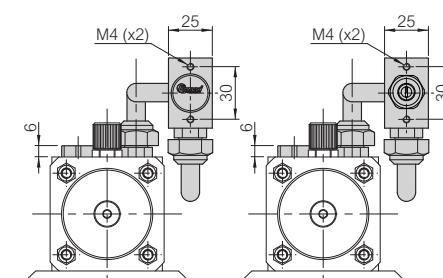
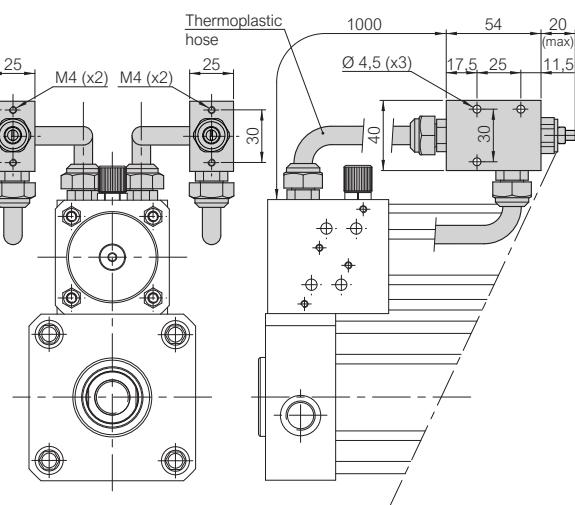
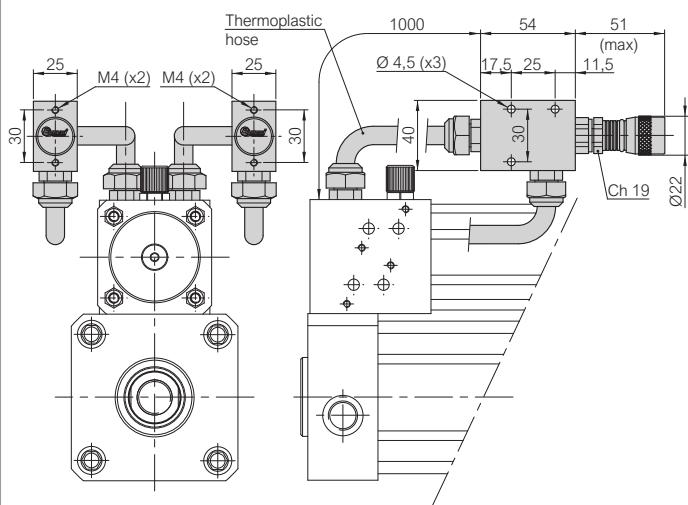


SPEED REGULATORS

Speed regulators on manifold group standard / precise / small size



Speed regulators remoted standard / precise / small size



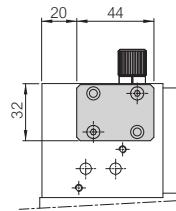
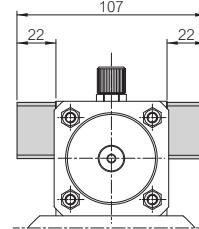
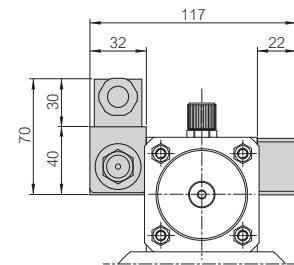
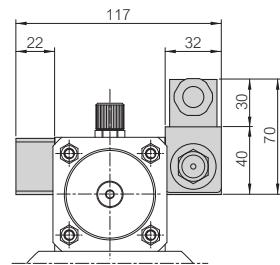
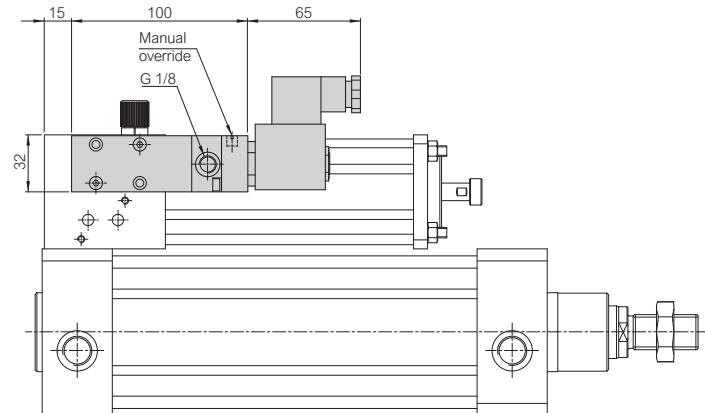
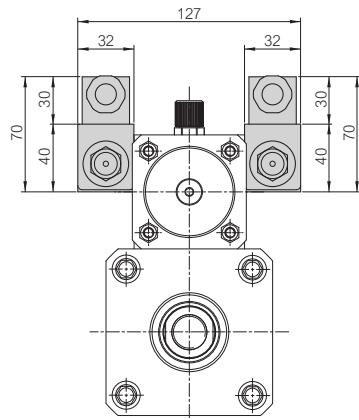
THERMOPLASTIC HOSE

Flexible thermoplastic hose for high pressure hydraulic applications SAE 100 R7 - Standard lenght = 1000mm - Different lenghts must be specified placing the order.



STOP CONTROL VALVES

STOP control valves solenoid actuated

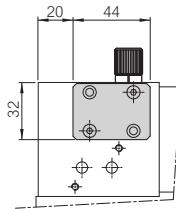
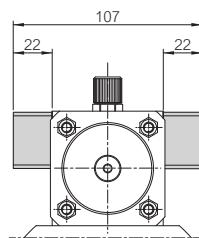
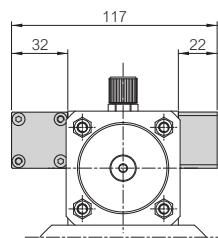
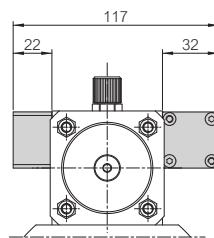
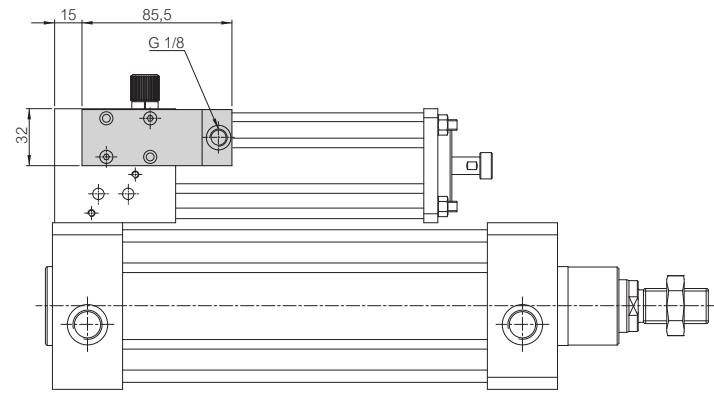
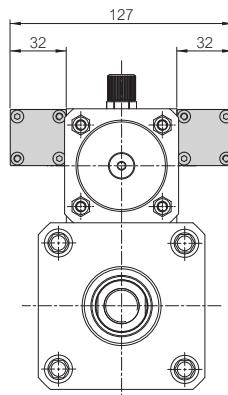


Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

WITHOUT Control valve

STOP control valves pneumatic actuated



Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

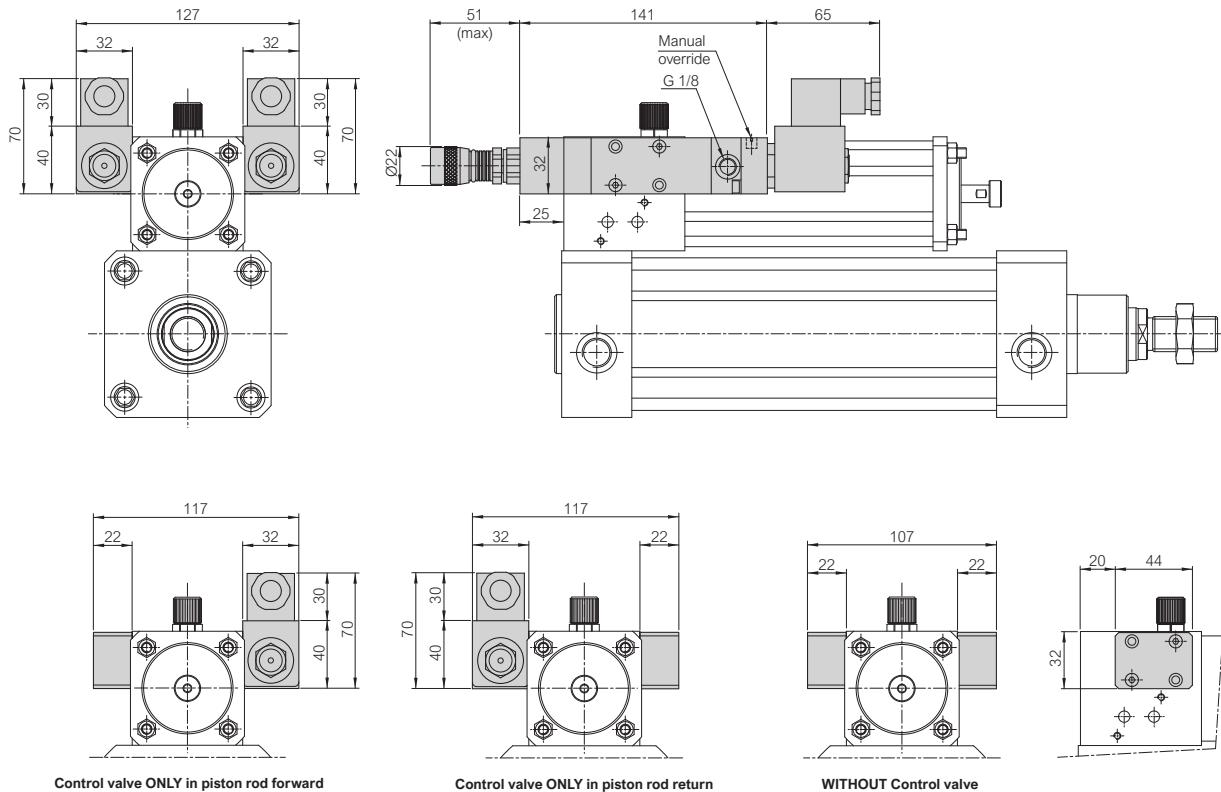
WITHOUT Control valve

Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.

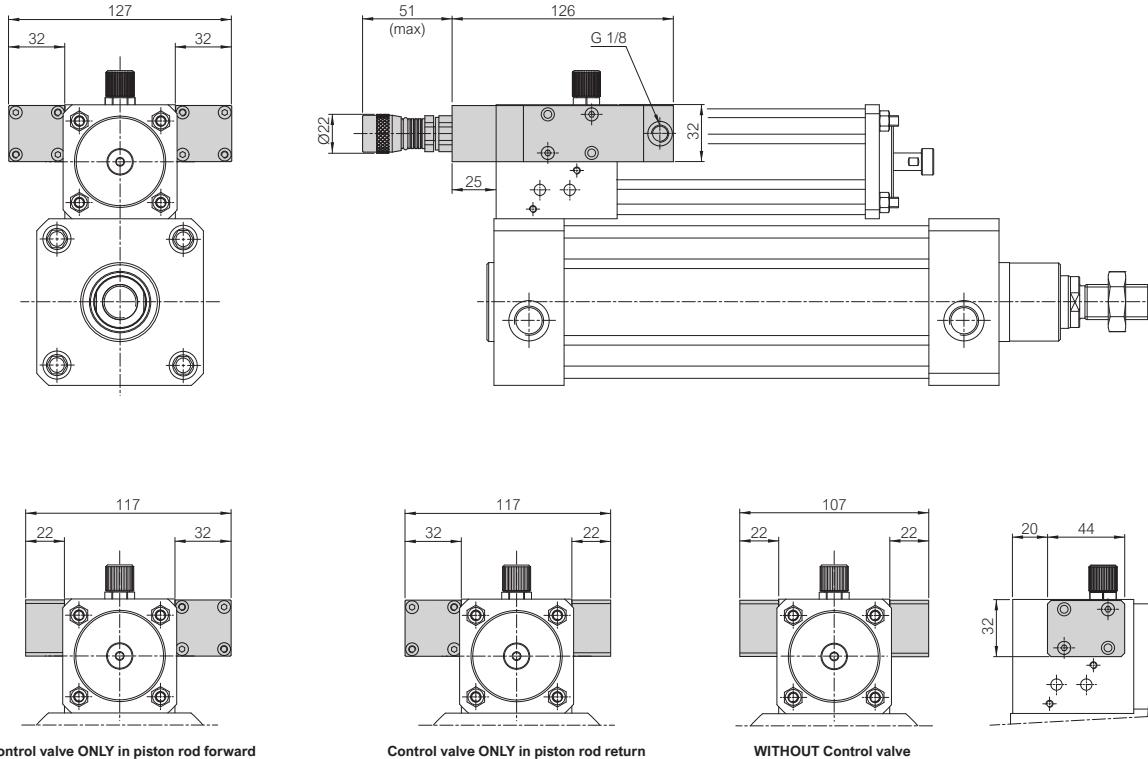


STOP CONTROL VALVES

STOP control valves solenoid actuated with speed adjustment



STOP control valves pneumatic actuated with speed adjustment

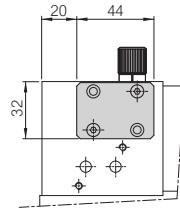
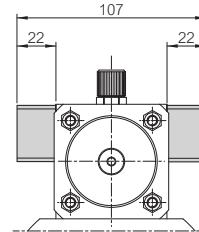
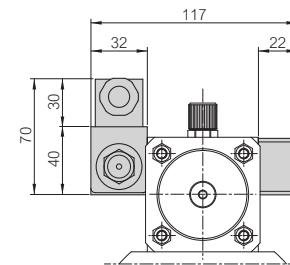
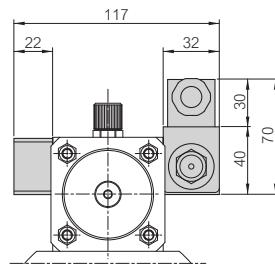
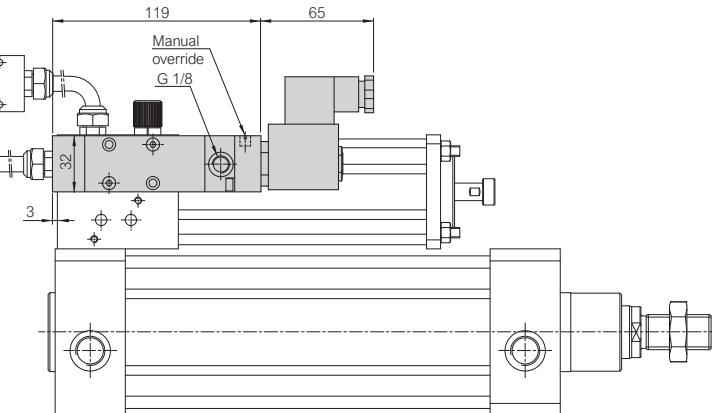
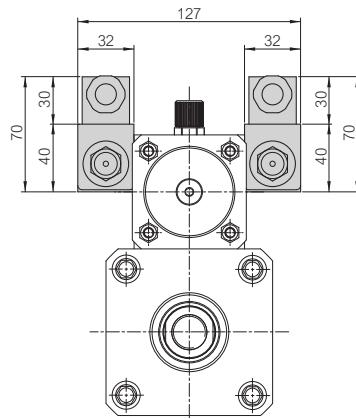


Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.



STOP CONTROL VALVES

STOP control valves solenoid actuated with remoted speed adjustment

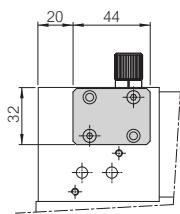
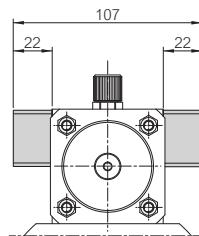
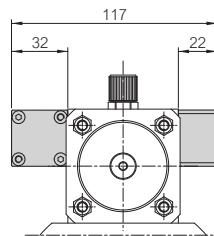
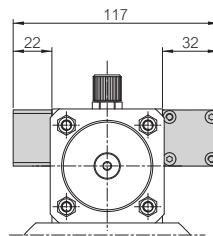
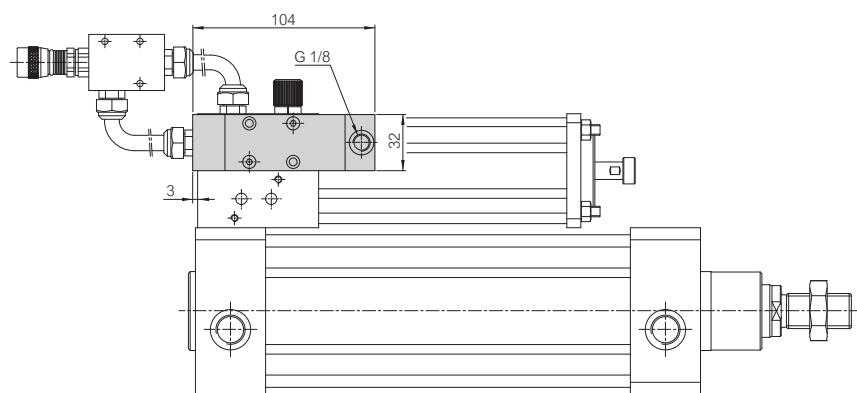
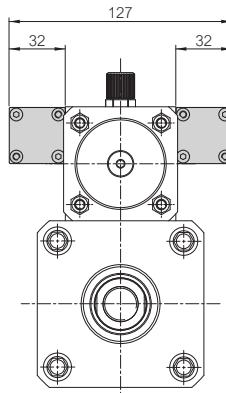


Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

WITHOUT Control valve

STOP control valves pneumatic actuated with remoted speed adjustment



Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

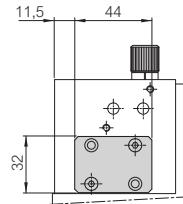
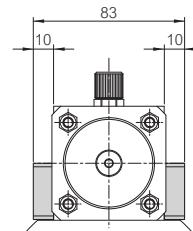
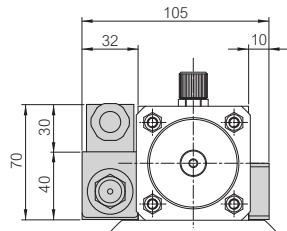
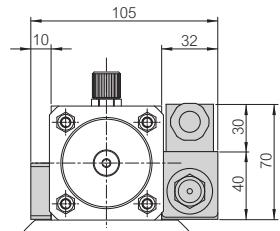
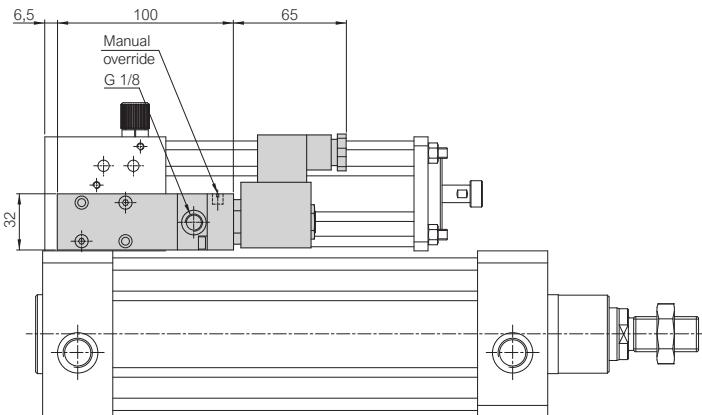
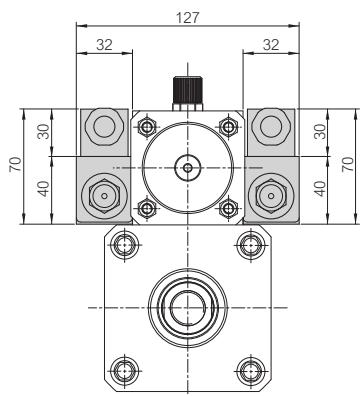
WITHOUT Control valve

Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.



SKIP CONTROL VALVES

SKIP control valves solenoid actuated

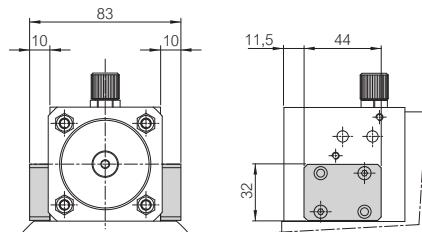
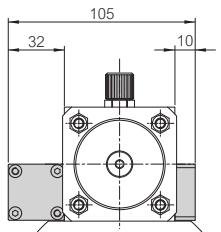
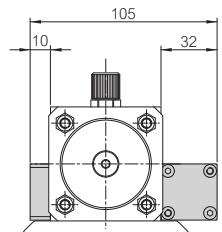
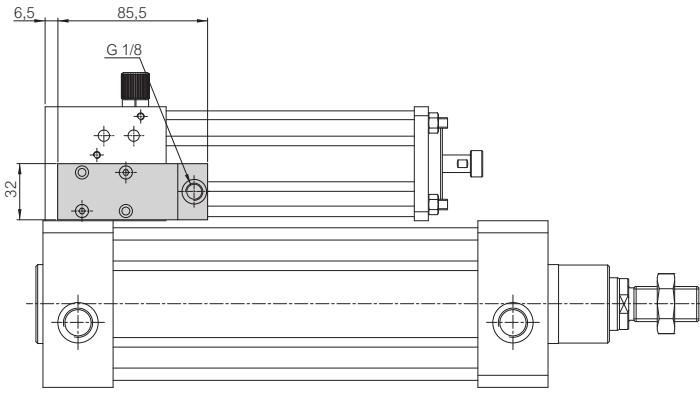
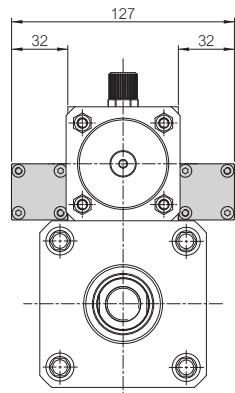


Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

WITHOUT Control valve

SKIP control valves pneumatic actuated



Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

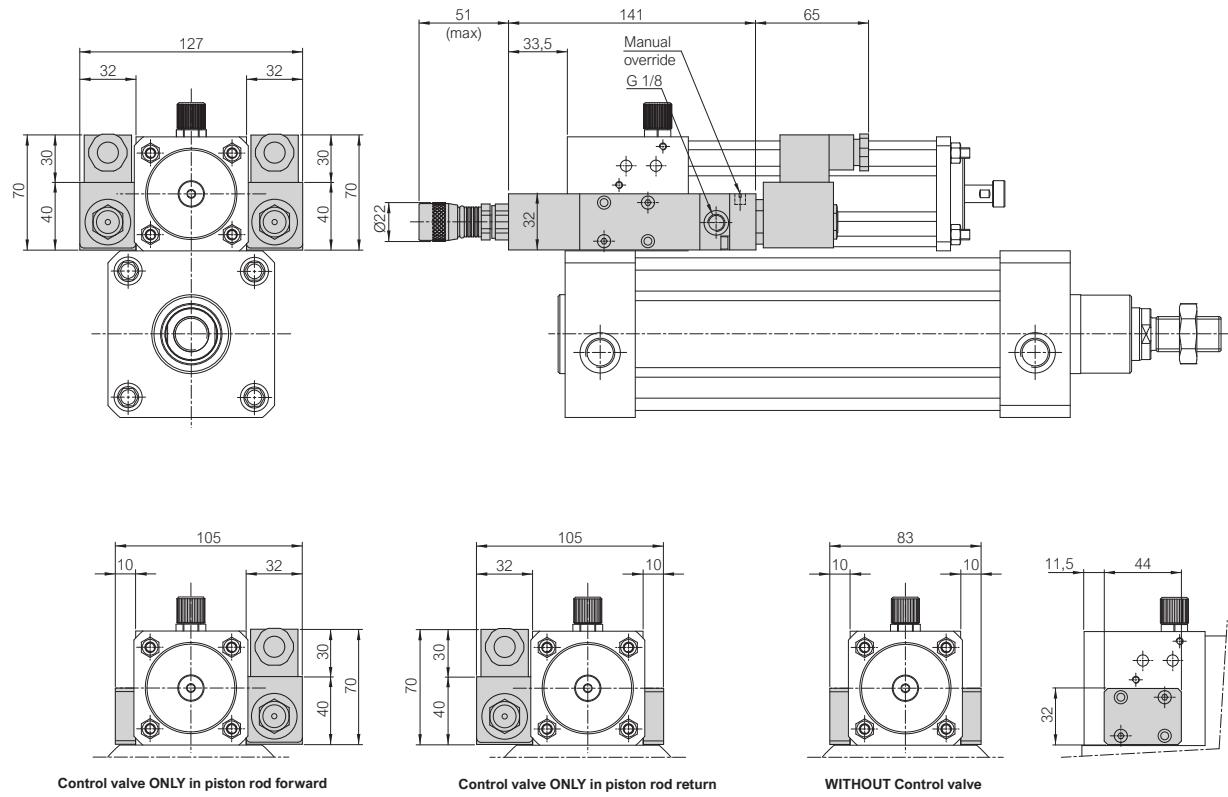
WITHOUT Control valve

Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.

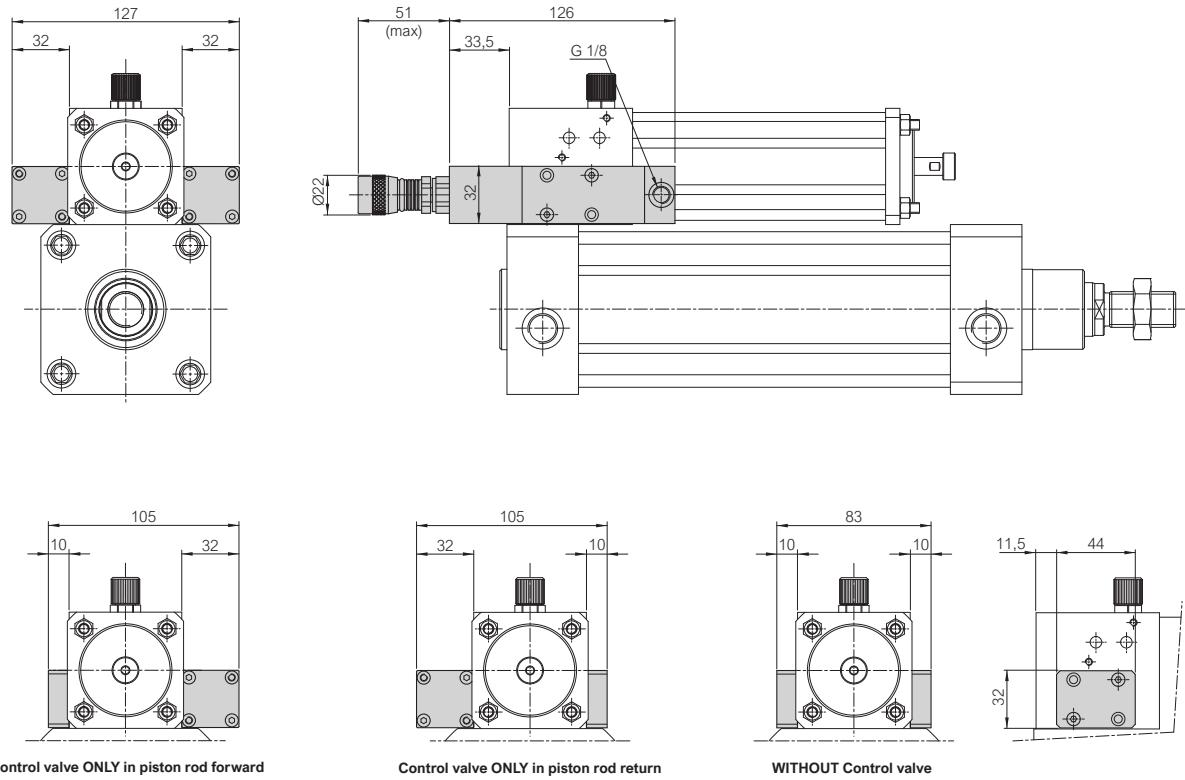


SKIP CONTROL VALVES

SKIP control valves solenoid actuated with speed adjustment



SKIP control valves pneumatic actuated with speed adjustment

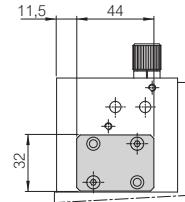
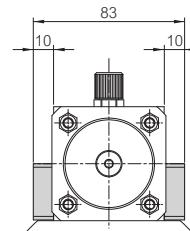
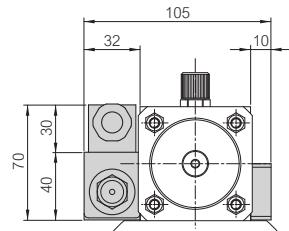
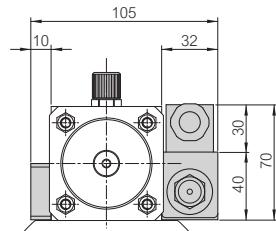
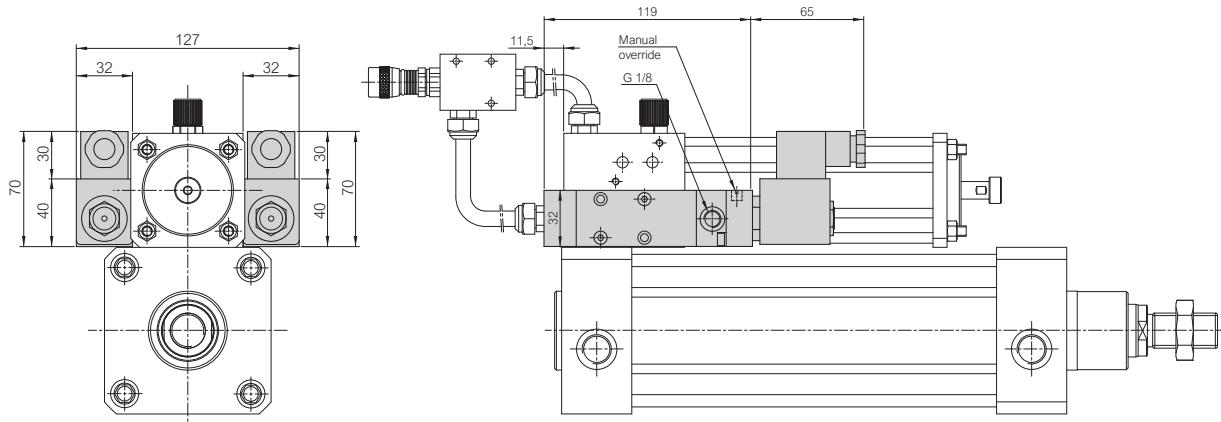


Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.



SKIP CONTROL VALVES

SKIP control valves solenoid actuated with remoted speed adjustment

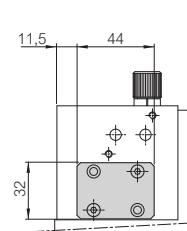
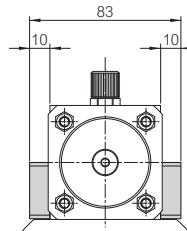
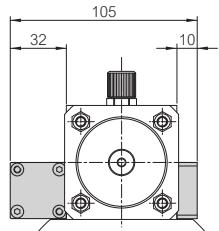
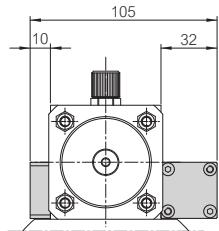
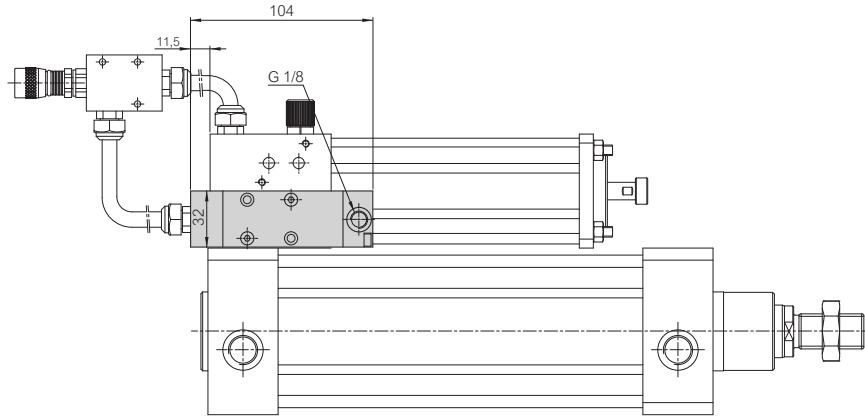
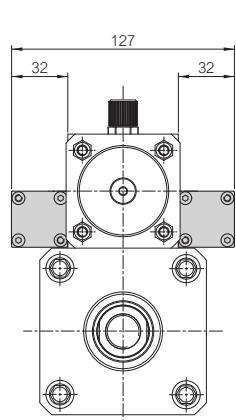


Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

WITHOUT Control valve

SKIP control valves pneumatic actuated with remoted speed adjustment



Control valve ONLY in piston rod forward

Control valve ONLY in piston rod return

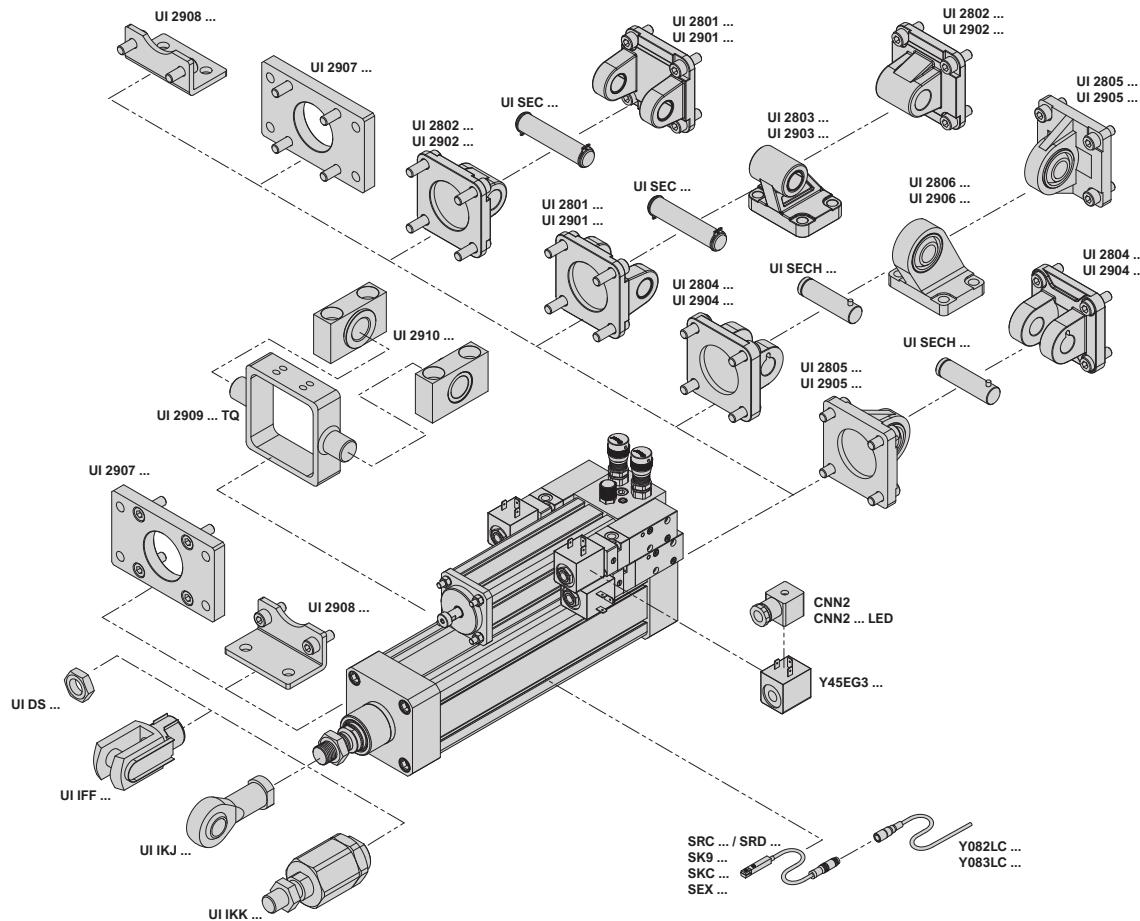
WITHOUT Control valve

Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.

ACCESSORIES

2

PNEUMO-HYDRAULIC ACTUATORS



All mounting accessories are supplied complete with screws for fixing to cylinder

| UI IFF ... Female clevis | UI IKJ ... Self-lubricating oscillating joint | UI IKK ... Self-aligning joint angular and radial | UI DS ... Rod nut | UI 2801 ... Female hinge (MP2) | UI 2901 ... Female hinge (MP2) | UI 2802 ... Male hinge (MP4) | UI 2902 ... Male hinge (MP4) | UI 2803 ... Square joint at 90° (AB7) | UI 2903 ... Square joint at 90° (AB7) |
|-----------------------------|---|---|----------------------|--------------------------------------|-----------------------------------|------------------------------------|------------------------------------|---|---|
|-----------------------------|---|---|----------------------|--------------------------------------|-----------------------------------|------------------------------------|------------------------------------|---|---|



| | | | | | | | | | |
|--|----------------|--|----------------|---|----------------|----------------------------------|----------------|----------------|----------------|
| Ø | Page 2.1.05.20 | Page 2.1.05.20 | Page 2.1.05.20 | Page 2.1.05.20 | Page 2.1.05.21 | Page 2.1.05.21 | Page 2.1.05.21 | Page 2.1.05.21 | Page 2.1.05.21 |
| 50 | UI IFF 050 | UI IKJ 050 | UI IKK 050 | UI DS 050 | UI 2801 050 | UI 2901 050 | UI 2802 050 | UI 2902 050 | UI 2803 050 |
| 63 | UI IFF 063 | UI IKJ 063 | UI IKK 063 | UI DS 063 | UI 2801 063 | UI 2901 063 | UI 2802 063 | UI 2902 063 | UI 2803 063 |
| 80 | UI IFF 080 | UI IKJ 080 | UI IKK 080 | UI DS 080 | UI 2801 080 | UI 2901 080 | UI 2802 080 | UI 2902 080 | UI 2803 080 |
| 100 | UI IFF 100 | UI IKJ 100 | UI IKK 100 | UI DS 100 | UI 2801 100 | UI 2901 100 | UI 2802 100 | UI 2902 100 | UI 2803 100 |
| 125 | UI IFF 125 | UI IKJ 125 | UI IKK 125 | UI DS 125 | UI 2801 125 | UI 2901 125 | UI 2802 125 | UI 2902 125 | UI 2803 125 |
| Clevis and lockable pins in galvanized steel | | Joint in galvanized steel, bush in sinterized bronze | | Joint and nut in galvanized steel, Pin in blacked steel | | Rod nut in galvanized steel | | Light alloy | |
| | | | | | | Painted steel black cataphoresis | | | |

| UI 2804 ... Narrow female hinge (AB6) | UI 2904 ... Narrow female hinge (AB6) | UI 2805 ... Narrow male hinge with articulated head (MP6) | UI 2905 ... Narrow male hinge with articulated head (MP6) | UI 2806 ... Square joint at 90° with articulated head | UI 2906 ... Square joint at 90° with articulated head | UI 2907 ... Front and rear flange (MF1-MF2) | UI 2908 ... Low foot pedestal (MS1) | UI 2909 ... TQ Adjustable intermediate hinge (MT4) | UI 2910 ... Support for intermediate hinge (AT4) |
|---|---|---|---|---|---|---|---|--|--|
|---|---|---|---|---|---|---|---|--|--|



| | | | | | | | | | |
|-------------|----------------|----------------------------------|----------------|----------------|----------------|----------------------------------|----------------|---------------------------|----------------|
| Ø | Page 2.1.05.21 | Page 2.1.05.21 | Page 2.1.05.22 | Page 2.1.05.22 | Page 2.1.05.22 | Page 2.1.05.22 | Page 2.1.05.22 | Page 2.1.05.23 | Page 2.1.05.24 |
| 50 | UI 2804 050 | UI 2904 050 | UI 2805 050 | UI 2905 050 | UI 2806 050 | UI 2906 050 | UI 2907 050 | UI 2908 050 | UI 2910 050 |
| 63 | UI 2804 063 | UI 2904 063 | UI 2805 063 | UI 2905 063 | UI 2806 063 | UI 2906 063 | UI 2907 063 | UI 2908 063 | UI 2910 063 |
| 80 | UI 2804 080 | UI 2904 080 | UI 2805 080 | UI 2905 080 | UI 2806 080 | UI 2906 080 | UI 2907 080 | UI 2908 080 | UI 2910 080 |
| 100 | UI 2804 100 | UI 2904 100 | UI 2805 100 | UI 2905 100 | UI 2806 100 | UI 2906 100 | UI 2907 100 | UI 2908 100 | UI 2910 100 |
| 125 | UI 2804 125 | UI 2904 125 | UI 2805 125 | UI 2905 125 | UI 2806 125 | UI 2906 125 | UI 2907 125 | UI 2908 125 | UI 2910 125 |
| Light alloy | | Painted steel black cataphoresis | | Light alloy | | Painted steel black cataphoresis | | White zinc coating steel | |
| | | | | | | | | White zinc coating steel | |
| | | | | | | | | White zinc coating steel | |
| | | | | | | | | Bush in sinterized bronze | |



ACCESSORIES

| | | | | |
|--|---|--|--|--|
| UI SEC ... Pin for female hinge MP2 (AA4) | UI SECH ... Pin for female hinge MP6 (AA6) | MRP200 Manual oil refill pump | SUPERMATIC46 Fluid for hydraulic circuit | UI SG ... Standard seals kit |
| | | | | |
| Ø Page 2.1.05.24 | Page 2.1.05.24 | | Page 2.1.05.24 | |
| 50 UI SEC 050 | UI SECH 050 | | | UI SG 050 |
| 63 UI SEC 063 | UI SECH 063 | | | UI SG 063 |
| 80 UI SEC 080 | UI SECH 080 | | | UI SG 080 |
| 100 UI SEC 100 | UI SECH 100 | | | UI SG 100 |
| 125 UI SEC 125 | UI SECH 125 | | | UI SG 125 |
| White zinc coating steel | White zinc coating steel | | Pump: ABS, steel Adapter: Brass Pipe: Rilsan | Oil DEXRON II Pakage: 1 lt Rod seals: Polyurethane Other seals: NBR |
| SR ... NC sensors REED / HALL | SK9 ... IP69K sensor PNP | SKC ... Precise position sensor PNP | | Y082LC / Y083LC Straight connectors |
| | | | | |
| Page 2.1.05.25 | Page 2.1.05.26 | Page 2.1.05.26 | | Page 2.1.05.27 |
| Sensor: PA6 Cable: PUR | Sensor: PA12 Cable: PUR | Sensor: PA Cable: PUR | | Connector: PVC Contacts: Gilded brass Cable: PVC |
| Y45EG3 ... Coils in direct current | Y45EG3 ... Coils in alternate current | CNN2 ... Connectors for coils | CNN2 ... LED Connectors for coils | |
| | | | | |
| Page 2.1.05.28 | Page 2.1.05.28 | Page 2.1.05.28 | Page 2.1.05.28 | |
| Encapsulated PA 6.6 + GLASS FIBER | Encapsulated PA 6.6 + GLASS FIBER | PA6 GF | PA6 GF - PA12 | |



PISTON ROD ACCESSORIES

| UI IFF ... Female clevis | Bore | Code | AA | AB | Ø AC | AD | AE | AF | AG | AH | AL | |
|-----------------------------|------|------------|----|----------------|----------------|------|------|------|------|-----|----|---|
| | mm | | | h11 | +0,30 -0,16 | ±0,5 | ±0,5 | ±0,4 | ±0,2 | | | |
| | 50 | UI IFF 050 | 16 | +0,70 +0,15 | M16 x 1,5 | 16 | 32 | 32 | 83 | 64 | 36 | 6 |
| | 63 | UI IFF 063 | 16 | | M16 x 1,5 | 16 | 32 | 32 | 83 | 64 | 36 | 6 |
| | 80 | UI IFF 080 | 20 | | M20 x 1,5 | 20 | 40 | 40 | 105 | 80 | 44 | 5 |
| | 100 | UI IFF 100 | 20 | | M20 x 1,5 | 20 | 40 | 40 | 105 | 80 | 44 | 5 |
| | 125 | UI IFF 125 | 30 | | M27 x 2 | 30 | 55 | 54 | 148 | 110 | 65 | - |

Clevis and clip in galvanized steel / 1 piece each package

| UI IKJ ... Self-lubricating oscillating joint | Bore | Code | AB | Ø AC | AM | AN | AO | AP | AQ | Ø AR | Ø AS | Ø AT | AU | AV | AZ |
|--|------|------------|-----------|------|----|----|----|----|----|------|------|------|----|-----|-----|
| | mm | | H7 | Ch | | | | | | | | | | | |
| | 50 | UI IKJ 050 | M16 x 1,5 | 16 | 28 | 22 | 42 | 21 | 15 | 19,3 | 22 | 27 | 8 | 64 | 85 |
| | 63 | UI IKJ 063 | M16 x 1,5 | 16 | 28 | 22 | 42 | 21 | 15 | 19,3 | 22 | 27 | 8 | 64 | 85 |
| | 80 | UI IKJ 080 | M20 x 1,5 | 20 | 33 | 30 | 50 | 25 | 18 | 24,3 | 27,5 | 34 | 10 | 77 | 102 |
| | 100 | UI IKJ 100 | M20 x 1,5 | 20 | 33 | 30 | 50 | 25 | 18 | 24,3 | 27,5 | 34 | 10 | 77 | 102 |
| | 125 | UI IKJ 125 | M27 x 2 | 30 | 51 | 41 | 70 | 37 | 25 | 34,8 | 40 | 50 | 15 | 110 | 145 |

Joint in galvanized steel, bush in sintered bronze, ring in hardened bearing steel / 1 piece each package

| UI IKK ... Self-aligning joint angular and radial | Bore | Code | A | B | C | D | E | Ø F | Ø G | Ø H | L | M | Ch1 | Ch2 | Ch3 | °β | Static load daN |
|--|------|------------|-----------|-----|----|----|----|-----|-----|-----|---|----|-----|-----|-----|----|--------------------|
| | mm | | | | | | | | | | | | | | | | |
| | 50 | UI IKK 050 | M16 x 1,5 | 104 | 32 | 10 | 53 | 22 | 32 | 45 | 2 | 30 | 20 | 27 | 41 | 6 | 1000 |
| | 63 | UI IKK 063 | M16 x 1,5 | 104 | 32 | 10 | 53 | 22 | 32 | 45 | 2 | 30 | 20 | 27 | 41 | 6 | 1000 |
| | 80 | UI IKK 080 | M20 x 1,5 | 119 | 40 | 10 | 53 | 22 | 32 | 45 | 2 | 37 | 20 | 27 | 41 | 6 | 1000 |
| | 100 | UI IKK 100 | M20 x 1,5 | 119 | 40 | 10 | 53 | 22 | 32 | 45 | 2 | 37 | 20 | 27 | 41 | 6 | 1000 |
| | 125 | UI IKK 125 | M27 x 2 | 147 | 54 | 10 | 60 | 32 | 57 | 70 | 2 | 48 | 24 | 54 | 65 | 8 | 3000 |

Joint and nut in galvanized steel, pin in burnished steel / 1 piece each package

| UI DS ... Rod nut | Bore | Code | B | | | | S1 | | | | Sw.2 | |
|----------------------|------|-----------|-----------|--|--|--|------|--|--|--|------|--|
| | mm | | | | | | | | | | Ch | |
| | 50 | UI DS 050 | M16 x 1,5 | | | | 8 | | | | 23 | |
| | 63 | UI DS 063 | M16 x 1,5 | | | | 8 | | | | 23 | |
| | 80 | UI DS080 | M20 x 1,5 | | | | 10 | | | | 26 | |
| | 100 | UI DS100 | M20 x 1,5 | | | | 10 | | | | 28 | |
| | 125 | UI DS125 | M27 x 2 | | | | 13,5 | | | | 41 | |

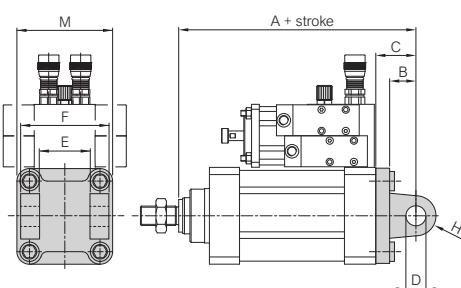
Rod nut in galvanized steel / 1 piece each package



MOUNTING ACCESSORIES

UI 2801 ... / UI 2901 ...

Female hinge (MP2)



| Bore mm | Code | A+ | B | C | D | E | F | M | H | Fixing screw |
|---------|------|----|---|---|---|---|---|---|---|--------------|
|---------|------|----|---|---|---|---|---|---|---|--------------|

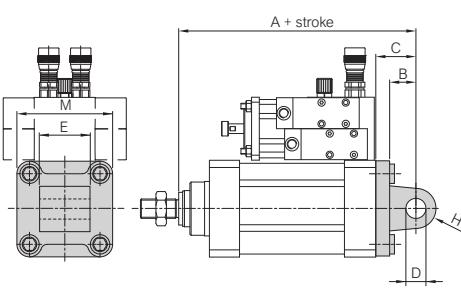
| | | $\pm 0,2$ | $\pm 0,2$ | $H9$ | $H14$ | $h14$ | | | | ISO 4762 |
|--|--|-----------|-----------|------|-------|-------|--|--|--|----------|
|--|--|-----------|-----------|------|-------|-------|--|--|--|----------|

| | | | | | | | | | | | |
|-----|----------------------------|-----|------------|----|----|----|----|-----|-----|----|----------|
| 50 | UI 2801 050 UI 2901 050 | 170 | $\pm 1,25$ | 16 | 27 | 12 | 32 | 60 | 65 | 12 | M8 x 25 |
| 63 | UI 2801 063 UI 2901 063 | 190 | | 21 | 32 | 16 | 40 | 70 | 75 | 16 | M8 x 25 |
| 80 | UI 2801 080 UI 2901 080 | 210 | $\pm 1,6$ | 22 | 36 | 16 | 50 | 90 | 95 | 16 | M10 x 30 |
| 100 | UI 2801 100 UI 2901 100 | 230 | | 27 | 41 | 20 | 60 | 110 | 115 | 20 | M10 x 30 |
| 125 | UI 2801 125 UI 2901 125 | 275 | ± 2 | 30 | 50 | 25 | 70 | 130 | 140 | 25 | M12 x 35 |

UI 2801 ... Light alloy / UI 2901 ... Painted steel black cataphoresis / 1 piece each package + 4 screws for fixing to cylinder

UI 2802 ... / UI 2902 ...

Male hinge (MP4)



| Bore mm | Code | A+ | B | C | D | E | M | H | Fixing screw |
|---------|------|----|---|---|---|---|---|---|--------------|
|---------|------|----|---|---|---|---|---|---|--------------|

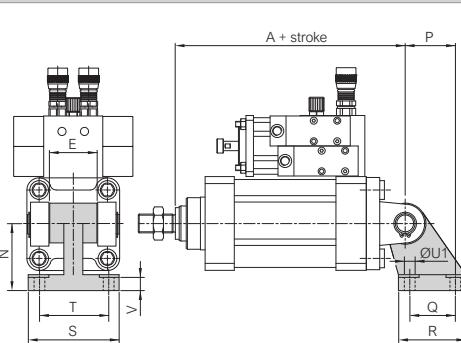
| | | $\pm 0,2$ | $H9$ | | | | | | ISO 4762 |
|--|--|-----------|------|--|--|--|--|--|----------|
|--|--|-----------|------|--|--|--|--|--|----------|

| | | | | | | | | | | | |
|-----|----------------------------|-----|------------|----|----|----|----|------------------|-----|----|----------|
| 50 | UI 2802 050 UI 2902 050 | 170 | $\pm 1,25$ | 16 | 27 | 12 | 32 | | 65 | 12 | M8 x 25 |
| 63 | UI 2802 063 UI 2902 063 | 190 | | 21 | 32 | 16 | 40 | | 75 | 16 | M8 x 25 |
| 80 | UI 2802 080 UI 2902 080 | 210 | $\pm 1,6$ | 22 | 36 | 16 | 50 | | 95 | 16 | M10 x 30 |
| 100 | UI 2802 100 UI 2902 100 | 230 | | 27 | 41 | 20 | 60 | | 115 | 20 | M10 x 30 |
| 125 | UI 2802 125 UI 2902 125 | 275 | ± 2 | 30 | 50 | 25 | 70 | $-0,5$ $-1,2$ | 140 | 25 | M12 x 35 |

UI 2802 ... Light alloy / UI 2902 ... Painted steel black cataphoresis / 1 piece each package + 4 screws for fixing to cylinder

UI 2803 ... / UI 2903 ...

Square joint at 90° (AB7)



| Bore mm | Code | A+ | E | N | P | Q | R | S | T | $\emptyset U1$ | V |
|---------|------|----|---|---|---|---|---|---|---|----------------|---|
|---------|------|----|---|---|---|---|---|---|---|----------------|---|

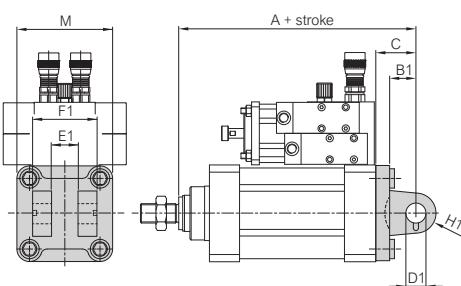
| | | $\pm 1,25$ | $JS15$ | $JS14$ | $JS14$ | | | $JS14$ | $H13$ | | |
|--|--|------------|--------|--------|--------|--|--|--------|-------|--|--|
|--|--|------------|--------|--------|--------|--|--|--------|-------|--|--|

| | | | | | | | | | | | | | |
|-----|----------------------------|-----|------------|----|------------------|----|----|----|----|-----|----|----|------|
| 50 | UI 2803 050 UI 2903 050 | 170 | $\pm 1,25$ | 32 | | 45 | 33 | 30 | 45 | 65 | 50 | 9 | 10,4 |
| 63 | UI 2803 063 UI 2903 063 | 190 | | 40 | $-0,2$ $-0,6$ | 50 | 37 | 35 | 50 | 67 | 52 | 9 | 12,4 |
| 80 | UI 2803 080 UI 2903 080 | 210 | $\pm 1,6$ | 50 | | 63 | 47 | 40 | 60 | 86 | 66 | 11 | 11,5 |
| 100 | UI 2803 100 UI 2903 100 | 230 | | 60 | | 71 | 55 | 50 | 70 | 96 | 76 | 11 | 14,5 |
| 125 | UI 2803 125 UI 2903 125 | 275 | ± 2 | 70 | $-0,5$ $-1,2$ | 90 | 70 | 60 | 90 | 124 | 94 | 14 | 16,8 |

UI 2803 ... Light alloy / UI 2903 ... Painted steel black cataphoresis / 1 piece each package

UI 2804 ... / UI 2904 ...

Narrow female hinge (AB6)



| Bore mm | Code | A+ | B1 | C | D1 | E1 | F1 | H1 | M | Fixing screw |
|---------|------|----|----|---|----|----|----|----|---|--------------|
|---------|------|----|----|---|----|----|----|----|---|--------------|

| | | $\pm 0,2$ | $F7$ | $H14$ | $d12$ | | | | | ISO 4762 |
|--|--|-----------|------|-------|-------|--|--|--|--|----------|
|--|--|-----------|------|-------|-------|--|--|--|--|----------|

| | | | | | | | | | | | |
|-----|----------------------------|-----|------------|----|----|----|----|----|----|-----|----------|
| 50 | UI 2804 050 UI 2904 050 | 170 | $\pm 1,25$ | 16 | 27 | 16 | 21 | 45 | 14 | 65 | M8 x 20 |
| 63 | UI 2804 063 UI 2904 063 | 190 | | 21 | 32 | 16 | 21 | 51 | 18 | 75 | M8 x 20 |
| 80 | UI 2804 080 UI 2904 080 | 210 | $\pm 1,6$ | 22 | 36 | 20 | 25 | 65 | 20 | 95 | M10 x 25 |
| 100 | UI 2804 100 UI 2904 100 | 230 | | 27 | 41 | 20 | 25 | 75 | 22 | 115 | M10 x 25 |
| 125 | UI 2804 125 UI 2904 125 | 275 | ± 2 | 30 | 50 | 30 | 37 | 97 | 25 | 140 | M12 x 35 |

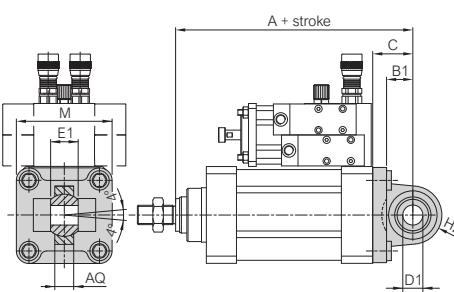
UI 2804 ... Light alloy / UI 2904 ... Painted steel black cataphoresis / 1 piece each package + 4 screws for fixing to cylinder



MOUNTING ACCESSORIES

UI 2805 ... / UI 2905 ...

Narrow male hinge with articulated head (MP6)

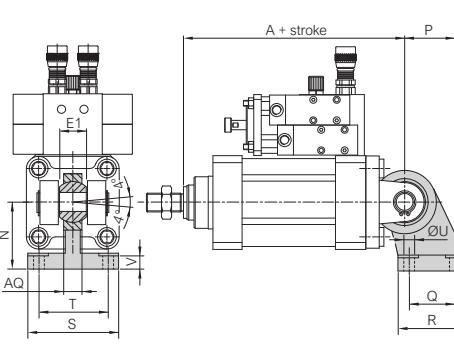


| Bore mm | Code | A+ | AQ | B1 | C ±0,2 | D1 | E1 | M | H2 | Fixing screw | |
|------------|----------------------------|-----|-------|----|-----------|----|----|----|-----|--------------|----------|
| | | | | | | | | | | ISO 4762 | |
| 50 | UI 2805 050 UI 2905 050 | 170 | ±1,25 | 15 | 16 | 27 | 16 | 21 | 65 | 21 | M8 x 20 |
| 63 | UI 2805 063 UI 2905 063 | 190 | | 15 | 21 | 32 | 16 | 21 | 75 | 24 | M8 x 20 |
| 80 | UI 2805 080 UI 2905 080 | 210 | ±1,6 | 18 | 22 | 36 | 20 | 25 | 95 | 28,5 | M10 x 25 |
| 100 | UI 2805 100 UI 2905 100 | 230 | | 18 | 27 | 41 | 20 | 25 | 115 | 30 | M10 x 25 |
| 125 | UI 2805 125 UI 2905 125 | 275 | ±2 | 25 | 30 | 50 | 30 | 37 | 140 | 40 | M12 x 35 |

UI 2805 ... Light alloy / UI 2905 ... Painted steel black cataphoresis / 1 piece each package + 4 screws for fixing to cylinder

UI 2806 ... / UI 2906 ...

Square joint at 90°with articulated head

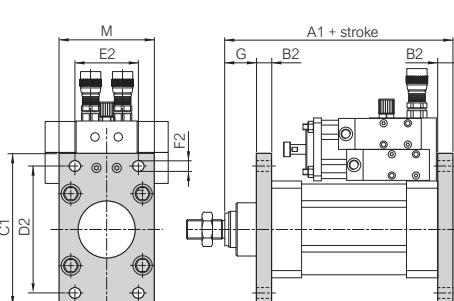


| Bore mm | Code | A+ | AQ | E1 0 -0,1 | N JS15 | P JS15 | Q JS14 | R | S | T | Ø U JS14 | V H13 +0,5 0 | |
|------------|----------------------------|-----|-------|-----------------|-----------|-----------|-----------|----|----|-----|-------------|-----------------------|------|
| | | | | | JS15 | JS14 | JS14 | | | | | | |
| 50 | UI 2806 050 UI 2906 050 | 170 | ±1,25 | 15 | 21 | 45 | 33 | 30 | 45 | 65 | 50 | 9 | 10,5 |
| 63 | UI 2806 063 UI 2906 063 | 190 | | 15 | 21 | 50 | 37 | 35 | 50 | 67 | 52 | 9 | 10,5 |
| 80 | UI 2806 080 UI 2906 080 | 210 | ±1,6 | 18 | 25 | 63 | 47 | 40 | 60 | 86 | 66 | 11 | 11,5 |
| 100 | UI 2806 100 UI 2906 100 | 230 | | 18 | 25 | 71 | 55 | 50 | 70 | 96 | 76 | 11 | 12,5 |
| 125 | UI 2806 125 UI 2906 125 | 275 | ±2 | 25 | 37 | 90 | 70 | 60 | 90 | 124 | 94 | 13,5 | 17 |

UI 2806 ... Light alloy / UI 2906 ... Painted steel black cataphoresis / 1 piece each package

UI 2907 ...

Front and rear flange ISO (MF1-MF2)

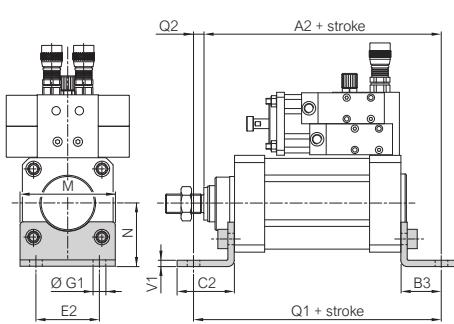


| Bore mm | Code | A1+ | B2 ±0,2 | C1 JS14 | D2 JS14 | E2 H13 | F2 | G | M | Fixing screw | |
|------------|-------------|-----|------------|------------|------------|-----------|----|----|----|--------------|----------|
| | | | | | | | | | | JS14 | ISO 4762 |
| 50 | UI 2907 050 | 155 | ±1,25 | 12 | 110 | 90 | 45 | 9 | 25 | ±1,6 | 65 |
| 63 | UI 2907 063 | 170 | | 12 | 120 | 100 | 50 | 9 | 25 | | 75 |
| 80 | UI 2907 080 | 190 | ±1,6 | 16 | 150 | 126 | 63 | 12 | 30 | ±2 | 95 |
| 100 | UI 2907 100 | 205 | | 16 | 170 | 150 | 75 | 14 | 35 | | 115 |
| 125 | UI 2907 125 | 245 | ±2 | 20 | 205 | 180 | 90 | 16 | 45 | ±2,5 | 140 |

UI 2907 ... White zinc plated steel / 1 piece each package + 4 screws for fixing to cylinder

UI 2908 ...

Low foot pedestal (MS1)



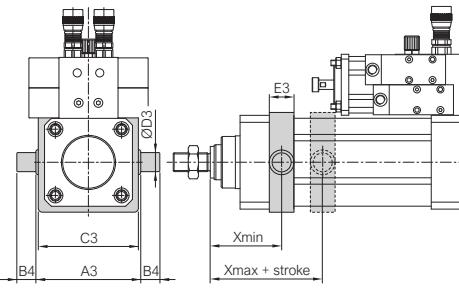
| Bore mm | Code | A2+ | B3 ±0,2 | C2 JS14 | E2 H14 | Ø G1 JS16 | M | N | Q1+ | Q2 | V1 ±0,5 | Fixing screw | |
|------------|-------------|-----|------------|------------|-----------|--------------|----|-----|-----|-----|------------|--------------|----------|
| | | | | | | | | | | | | JS14 | ISO 4762 |
| 50 | UI 2908 050 | 175 | ±1,25 | 32 | 47 | 45 | 9 | 65 | 45 | 170 | ±1,6 | 5 | ±0,35 |
| 63 | UI 2908 063 | 190 | | 32 | 45 | 50 | 9 | 75 | 50 | 185 | | 5 | 5 |
| 80 | UI 2908 080 | 215 | ±1,6 | 41 | 55 | 63 | 12 | 95 | 63 | 210 | ±2 | 5 | ±0,4 |
| 100 | UI 2908 100 | 230 | | 41 | 57 | 75 | 14 | 115 | 71 | 220 | | 10 | 6 |
| 125 | UI 2908 125 | 270 | ±2 | 45 | 70 | 90 | 16 | 140 | 90 | 250 | ±2,5 | 20 | ±0,5 |

UI 2908 ... White zinc plated steel / 1 piece each package + 2 screws for fixing to cylinder



MOUNTING ACCESSORIES

| UI 2909 ... TQ (series UI) Adjustable intermediate hinge (MT4) | Bore | Code | A3 | B4 | C3 | \emptyset D3 | E3 | Xmin |
|---|------|----------------|-----|-----|-----|----------------|----|-------|
| | mm | | h14 | h14 | | e9 | | |
| | 50 | UI 2909 050 TQ | 75 | 16 | 71 | 16 | 20 | 81 |
| | 63 | UI 2909 063 TQ | 90 | 20 | 84 | 20 | 26 | 89 |
| | 80 | UI 2909 080 TQ | 110 | 20 | 105 | 20 | 26 | 99 |
| | 100 | UI 2909 100 TQ | 132 | 25 | 129 | 25 | 32 | 108,5 |
| | 125 | UI 2909 125 TQ | 160 | 25 | 154 | 25 | 33 | 126,5 |



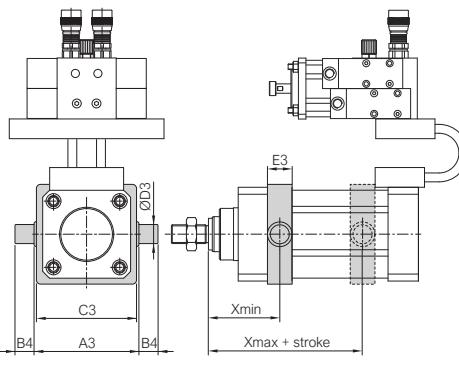
UI 2909 ... White zinc plated steel / 1 piece each package + 8 set head screws for fixing to cylinder

| Bore | Xmax | | | | | | | | | |
|------|-------------|-----------------|------------------|------------------|------------------|------------------|-------------------|--|--|--|
| | mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 420 | Stroke 421 ÷ 590 | Stroke 591 ÷ 745 | Stroke 746 ÷ 900 | Stroke 901 ÷ 1130 | | | |
| 50 | Stroke - 57 | Stroke - 107 | Stroke - 147 | Stroke - 170 | Stroke - 217 | Stroke - 249 | | | | |

| Bore | Xmax | | | | | | | | | |
|------|-------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| | mm | Stroke 50 ÷ 170 | Stroke 171 ÷ 220 | Stroke 221 ÷ 320 | Stroke 321 ÷ 410 | Stroke 411 ÷ 510 | Stroke 511 ÷ 640 | Stroke 641 ÷ 800 | Stroke 801 ÷ 950 | Stroke 951 ÷ 1100 |
| 63 | Stroke - 42 | Stroke - 92 | Stroke - 132 | Stroke - 155 | Stroke - 202 | Stroke - 234 | Stroke - 278 | Stroke - 344 | Stroke - 432 | |
| 80 | Stroke - 26 | Stroke - 76 | Stroke - 116 | Stroke - 139 | Stroke - 186 | Stroke - 218 | Stroke - 262 | Stroke - 328 | Stroke - 416 | |
| 100 | Stroke - 11 | Stroke - 61 | Stroke - 101 | Stroke - 124 | Stroke - 171 | Stroke - 203 | Stroke - 247 | Stroke - 313 | Stroke - 401 | |
| 125 | Stroke + 25 | Stroke - 25 | Stroke - 65 | Stroke - 88 | Stroke - 135 | Stroke - 167 | Stroke - 211 | Stroke - 277 | Stroke - 365 | |

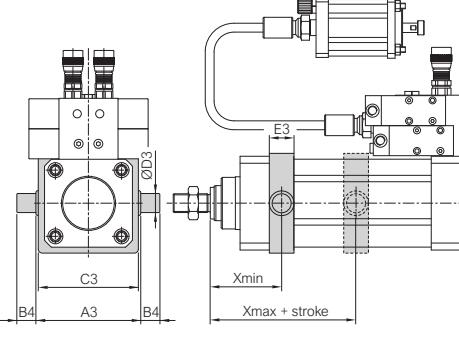
If the obtained value of "Xmax" is less than the corresponding value of "Xmin": the adjustable intermediate hinge can not be mounted.

| UI 2909 ... TQ (series UT) Adjustable intermediate hinge (MT4) | Bore | Code | A3 | B4 | C3 | \emptyset D3 | E3 | Xmin | Xmax + |
|---|------|----------------|-----|-----|-----|----------------|----|-------|--------|
| | mm | | h14 | h14 | | e9 | | | |
| | 50 | UI 2909 050 TQ | 75 | 16 | 71 | 16 | 20 | 81 | 84 |
| | 63 | UI 2909 063 TQ | 90 | 20 | 84 | 20 | 26 | 89 | 96 |
| | 80 | UI 2909 080 TQ | 110 | 20 | 105 | 20 | 26 | 99 | 109 |
| | 100 | UI 2909 100 TQ | 132 | 25 | 129 | 25 | 32 | 108,5 | 124 |
| | 125 | UI 2909 125 TQ | 160 | 25 | 154 | 25 | 33 | 126,5 | 159,5 |



UI 2909 ... White zinc plated steel / 1 piece each package + 8 set head screws for fixing to cylinder

| UI 2909 ... TQ (series UB) Adjustable intermediate hinge (MT4) | Bore | Code | A3 | B4 | C3 | \emptyset D3 | E3 | Xmin | Xmax + |
|---|------|----------------|-----|-----|-----|----------------|----|-------|--------|
| | mm | | h14 | h14 | | e9 | | | |
| | 50 | UI 2909 050 TQ | 75 | 16 | 71 | 16 | 20 | 81 | 40 |
| | 63 | UI 2909 063 TQ | 90 | 20 | 84 | 20 | 26 | 89 | 52 |
| | 80 | UI 2909 080 TQ | 110 | 20 | 105 | 20 | 26 | 99 | 65 |
| | 100 | UI 2909 100 TQ | 132 | 25 | 129 | 25 | 32 | 108,5 | 80 |
| | 125 | UI 2909 125 TQ | 160 | 25 | 154 | 25 | 33 | 126,5 | 115,5 |



UI 2909 ... White zinc plated steel / 1 piece each package + 8 set head screws for fixing to cylinder



MOUNTING ACCESSORIES

| UI 2910 ... Support for intermediate hinge (AT4) | Bore | Code | A3 | A4 | B5 | C4 | $\emptyset D3$ | E4 | F3 | $\emptyset G2$ | $\emptyset G3$ | M1 | N1 |
|---|------|-------------|-----|----|-----|-----|----------------|-----------|-----|----------------|----------------|----|----|
| | mm | h14 | | | | F7 | $\pm 0,2$ | $\pm 0,5$ | H13 | H13 | | | |
| | | | | | | | | | | | | | |
| | 50 | UI 2910 050 | 75 | 55 | 99 | 117 | 16 | 36 | 9 | 9 | 15 | 36 | 18 |
| | 63 | UI 2910 063 | 90 | 65 | 116 | 136 | 20 | 42 | 11 | 11 | 18 | 40 | 20 |
| | 80 | UI 2910 080 | 110 | 65 | 136 | 156 | 20 | 42 | 11 | 11 | 18 | 40 | 20 |
| | 100 | UI 2910 100 | 132 | 75 | 164 | 189 | 25 | 50 | 13 | 14 | 20 | 50 | 25 |
| | 125 | UI 2910 125 | 160 | 75 | 192 | 217 | 25 | 50 | 13 | 14 | 20 | 50 | 25 |

UI 2910 ... White zinc plated steel / 1 piece each package + 8 set head screws for fixing to cylinder

| UI SEC ... Pin for female hinge MP2 (AA4) | Bore | Code | $\emptyset EK$ | EL | | L |
|--|------|------------|----------------|-----------|-------------|-----|
| | mm | | e8 | $\pm 0,3$ | \emptyset | |
| | 50 | UI SEC 050 | 12 | | 61 | 68 |
| | 63 | UI SEC 063 | 16 | | 71 | 78 |
| | 80 | UI SEC 080 | 16 | | 91 | 98 |
| | 100 | UI SEC 100 | 20 | | 111 | 118 |
| | 125 | UI SEC 125 | 25 | | 132 | 139 |

UI SEC ... White zinc plated steel / 1 piece each package + 2 retaining rings DIN 471

| UI SECH ... Pin for female hinge MP6 (AA6) | Bore | Code | B | $\emptyset EK$ | EL1 | H | L1 | $\emptyset P$ | |
|---|------|-------------|----|----------------|-----------|-------------|-------------|---------------|---|
| | mm | | f7 | $\pm 0,5$ | $\pm 0,3$ | \emptyset | \emptyset | h12 | |
| | 50 | UI SECH 050 | 6 | 0 -1 | 16 | 43 | 20 | 54 | 4 |
| | 63 | UI SECH 063 | 6 | | 16 | 49 | 20 | 60 | 4 |
| | 80 | UI SECH 080 | 6 | | 20 | 63 | 24 | 75 | 4 |
| | 100 | UI SECH 100 | 6 | | 20 | 73 | 24 | 85 | 4 |
| | 125 | UI SECH 125 | 9 | | 30 | 94 | 36 | 110 | 6 |

UI SECH ... White zinc plated steel / 1 piece each package + 1 retaining ring DIN 471

MANUAL REFILL PUMP MRP200

| MRP200 Manual oil refill pump | Technical features |
|----------------------------------|---|
| | Code MRP200 |
| | Threaded connection Gas 1/4" (ISO 228) |
| | Pipe length (2) 500 mm |
| | Inside diameter of the pipe 4 mm |
| | Tank capacity 200 ml |

MRP200 / Body in ABS, tank and lever in carbon steel, pipe in Rilsan, NBR seals - 1 piece each package

END OF STROKE SENSORS TYPE SR

| SRC-61, SRC-21, SRC-27 | | Technical features | | |
|---|--|--------------------------------------|--|--------------------------------|
| End of stroke sensor REED - 2 poles N.O. | | | | |
| | | Code | SRC-61 | SRC-21 |
| | | Version | Cable 2 x 0,14 mm ² | Cable 2 x 0,14 mm ² |
| | | Cable length | 2500 mm | 2500 mm |
| | | Sensor | REED | SRC-27 |
| | | Output | Pure contact, normally open | |
| | | Operating voltage | 5 ÷ 230 Vac / Vdc | 5 ÷ 130 Vac / Vdc |
| | | Switching current (max.) | 200 mA | 200 mA |
| | | Contact rating (max.) | 10 W | 6 W |
| | | Voltage drop (max.) | 3 V | 3 V |
| | | Visual indicator | LED yellow diode | |
| | | Operating frequency | 1000 Hz | |
| | | Temperature range | -15 ÷ +70 °C | |
| | | Enclosure classification (IEC 60529) | IP67 | |
| | | Protection circuit | Power source reverse polarity | |
| | | Mounting | Screw for "T" groove - Torque max. 0,15 Nm | |
| SRC-61, SRC-21, SRC-27 / Sensor in PA6, cable in PUR - 1 piece each package | | | | |

| SRD-21, SRD-27 | | Technical features | | |
|---|--|--------------------------------------|--|--------------------------|
| End of stroke sensor REED - 3 poles N.O. | | | | |
| | | Code | SRD-21 | SRD-27 |
| | | Version | Cable 3 x 0,14 mm ² | Connector M8 x 1 - 3 pin |
| | | Cable length | 2500 mm | 300 mm |
| | | Sensor | REED | |
| | | Output | PNP, normally open | |
| | | Operating voltage | 5 ÷ 30 Vac / Vdc | |
| | | Switching current (max.) | 200 mA | |
| | | Contact rating (max.) | 6 W | |
| | | Voltage drop (max.) | 0,7 V | |
| | | Visual indicator | LED yellow diode | |
| | | Operating frequency | 1000 Hz | |
| | | Temperature range | -15 ÷ +70 °C | |
| | | Enclosure classification (IEC 60529) | IP67 | |
| | | Protection circuit | Power source reverse polarity | |
| | | Mounting | Screw for "T" groove - Torque max. 0,15 Nm | |
| SRD-21, SRD-27 / Sensor in PA6, cable in PUR - 1 piece each package | | | | |

| SRN-21, SRN-27 | | Technical features | | |
|---|--|--------------------------------------|--|--------------------------|
| End of stroke sensor HALL PNP - 3 poles N.O. | | | | |
| | | Code | SRN-21 | SRN-27 |
| | | Version | Cable 3 x 0,14 mm ² | Connector M8 x 1 - 3 pin |
| | | Cable length | 2000 mm | 300 mm |
| | | Sensor | HALL | |
| | | Output | PNP, normally open | |
| | | Operating voltage | 10 ÷ 30 Vdc | |
| | | Switching current (max.) | 200 mA | |
| | | Contact rating (max.) | 4 W | |
| | | Voltage drop (max.) | 0,7 V | |
| | | Visual indicator | LED yellow diode | |
| | | Operating frequency | 1000 Hz | |
| | | Temperature range | -15 ÷ +70 °C | |
| | | Enclosure classification (IEC 60529) | IP67 | |
| | | Protection circuit | Power source reverse polarity | |
| | | Mounting | Screw for "T" groove - Torque max. 0,15 Nm | |
| SRN-21, SRN-27 / Sensor in PA6, cable in PUR - 1 piece each package | | | | |


END OF STROKE SENSORS TYPE SK9 with enclosure classification IP69K

| SK9-21 End of stroke sensor HALL PNP - 3 poles N.O. | | Technical features |
|--|--|--|
| | | <p>Code SK9-21</p> <p>Version Cable 3 x 0,14 mm²</p> <p>Cable length 2000 mm</p> <p>Sensor HALL</p> <p>Output PNP, normally open</p> <p>Operating voltage 10 ÷ 30 Vdc</p> <p>Switching current (max.) 200 mA</p> <p>Contact rating (max.) 6 W</p> <p>Current consumption 10 mA (without load)</p> <p>Voltage drop (max.) 2,2 V</p> <p>Visual indicator LED yellow diode: flashing (instable position) permanently light (stable position)</p> <p>Operating frequency 1000 Hz</p> <p>Temperature range -30 ÷ +80 °C</p> <p>Enclosure classification (IEC 60529) IP69K</p> <p>Protection circuit Short-circuit, power source reverse polarity, power-up pulse</p> <p>Mounting Screw for "T" groove - Torque max. 0,3 Nm</p> |
| | | SK9-21 / Sensor in PA12, cable in PUR - 1 piece each packag |

END OF STROKE SENSORS TYPE SKC with precise positioning sistem

| SKC-27 End of stroke sensor HALL PNP - 3 poles N.O. | | Technical features |
|--|--|---|
| | | <p>Code SK9-21</p> <p>Version Cable 3 x 0,14 mm²</p> <p>Cable length 2000 mm</p> <p>Sensor HALL</p> <p>Output PNP, normally open</p> <p>Operating voltage 10 ÷ 30 Vdc</p> <p>Switching current (max.) 200 mA</p> <p>Contact rating (max.) 6 W</p> <p>Current consumption 10 mA (without load)</p> <p>Voltage drop (max.) 2,2 V</p> <p>Leakage current (max.) 0,05 mA</p> <p>Visual indicator Two colors LED diode: red (instable position) green (stable position)</p> <p>Operating frequency 1000 Hz</p> <p>Temperature range -10 ÷ +60 °C</p> <p>Enclosure classification (IEC 60529) IP67</p> <p>Protection circuit Short-circuit, power source reverse polarity, power-up pulse</p> <p>Mounting Screw for "T" groove - Torque max. 0,3 Nm</p> |
| | | SKC-27 / Sensor in PA, cable in PUR - 1 piece each package |



THREADED CONNECTORS TYPE Y082LC

| Y082LC ... Threaded connectors - 2 poles | | Technical features | |
|--|--|---|----------------------------|
| | | Code | Y082LC250C Y082LC500C |
| | | Threaded connectors | M8 x 1 |
| | | Cable | 2 x 0,14 mm ² |
| | | Cable length | 2500 mm 5000 mm |
| | | Operating voltage (max.) | 50 Vac / 60 Vdc |
| | | Corrente (max.) | 3000 mA |
| | | Temperature range | -25 ÷ +75 °C |
| | | Enclosure classification (IEC 60529) | IP67 |
| Y082LC ... / Connector in PVC, contacts in gilded brass, cable in PVC - 1 piece each package | | | |

THREADED CONNECTORS TYPE Y083LC

| Y083LC ... Threaded connectors - 3 poles | | Technical features | |
|--|--|---|----------------------------|
| | | Code | Y083LC250D Y083LC500D |
| | | Threaded connectors | M8 x 1 |
| | | Cable | 3 x 0,14 mm ² |
| | | Cable length | 2500 mm 5000 mm |
| | | Operating voltage (max.) | 50 Vac / 60 Vdc |
| | | Corrente (max.) | 3000 mA |
| | | Temperature range | -25 ÷ +75 °C |
| | | Enclosure classification (IEC 60529) | IP67 |
| Y083LC ... / Connector in PVC, contacts in gilded brass, cable in PVC - 1 piece each package | | | |



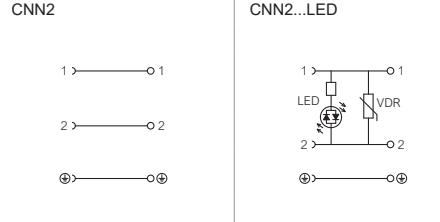
COILS

| Y45EG3 ... Direct current coils | | Technical features | | | | |
|--|--|--------------------|------------|------------|--|--|
| Code | Y45EG3 001 | Y45EG3 002 | Y45EG3 003 | Y45EG3 004 | | |
| Operating voltage | 12 VDC | 24 VDC | 48 VDC | 110 VDC | | |
| Power consumption (max.) | 10 W | | | | | |
| Voltage tolerance | -10% ÷ +15% (of the nominal voltage) | | | | | |
| Encapsulation class | 155°C (F) | | | | | |
| Wire insulation class | 180°C (H) | | | | | |
| Energising duration | 100% (a 20°C) | | | | | |
| Temperature range | -10 ÷ +50 °C | | | | | |
| Electrical connection | EN 175301-803 form A (ex. DIN 43650/A) | | | | | |
| Protection class | IP65 (with connector) | | | | | |
| Y45EG3... / Encapsulation material in NYLON - 1 piece each package | | | | | | |

| Y45EG3 ... Alternate current coils | | Technical features | | | | |
|--|--|--------------------|------------|------------|--|--|
| Code | Y45EG3 005 | Y45EG3 006 | Y45EG3 007 | Y45EG3 008 | | |
| Operating voltage | 24 VAC | 48 VAC | 110 VAC | 220 VAC | | |
| Power consumption (max.) | 13,5 VA | | | | | |
| Voltage tolerance | -10% ÷ +15% (of the nominal voltage) | | | | | |
| Encapsulation class | 155°C (F) | | | | | |
| Wire insulation class | 180°C (H) | | | | | |
| Energising duration | 100% (a 20°C) | | | | | |
| Temperature range | -10 ÷ +50 °C | | | | | |
| Electrical connection | EN 175301-803 form A (ex. DIN 43650/A) | | | | | |
| Protection class | IP65 (with connector) | | | | | |
| Y45EG3... / Encapsulation material in NYLON - 1 piece each package | | | | | | |

CONNECTORS

| CNN2... Connectors for coils | | Technical features | | | | |
|---|---|--------------------|---------------|---------------|--|--|
| Code | CNN2 | CNN2 2 LED | CNN2 3 LED | CNN2 4 LED | | |
| Operating voltage (max.) | 0 ÷ 250 VDC / VAC | 12/24 VDC / VAC | 115 VDC / VAC | 230 VDC / VAC | | |
| Power consumption (max.) | 10 A | 5 A | 5 A | 5 A | | |
| Contact resistance (max.) | 15 mΩ | | | | | |
| Oversupply category | III | | | | | |
| Conductor size (max.) | 1,5 mm ² (without terminals) | | | | | |
| Cable gland | PG9 | | | | | |
| Temperature range | -40 ÷ +100 °C | -20 ÷ +80 °C | -20 ÷ +80 °C | -20 ÷ +80 °C | | |
| Electrical connection | EN175301-803 type A | | | | | |
| Protection class | IP65 (correctly assembled) | | | | | |
| CNN2... / Contact holder, housing, seal and mounting screw - 1 piece each package | | | | | | |





BONESI PNEUMATIK manufactures all its own products in Italy



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