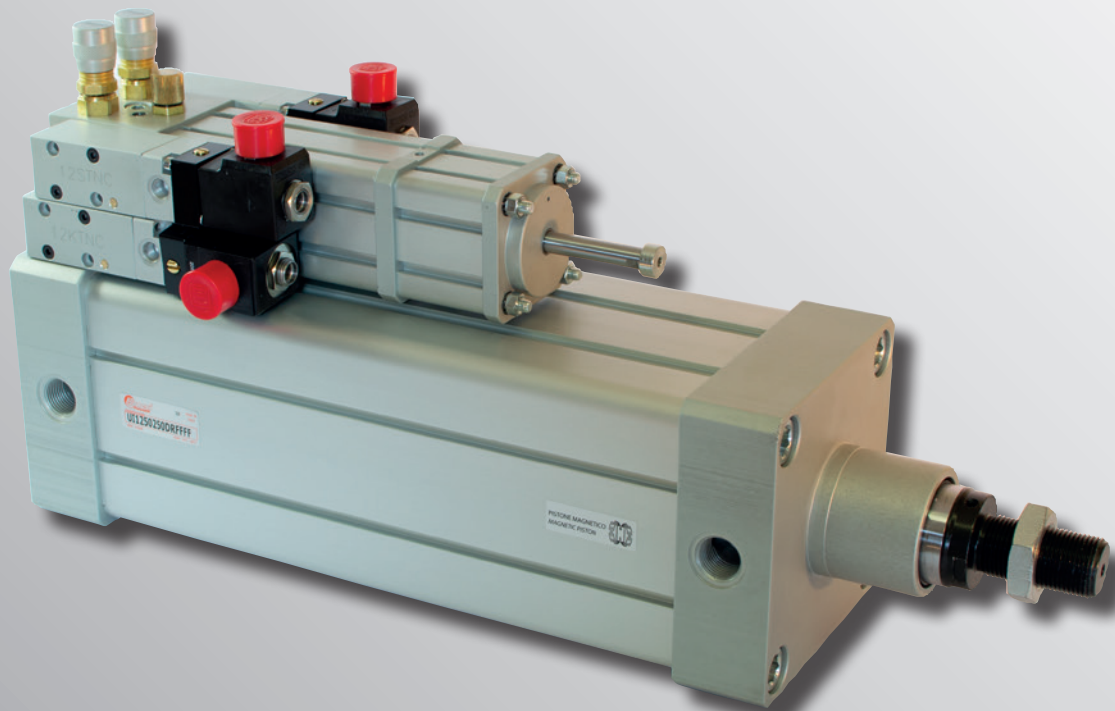


UI Series

Pneumo-hydraulic cylinders



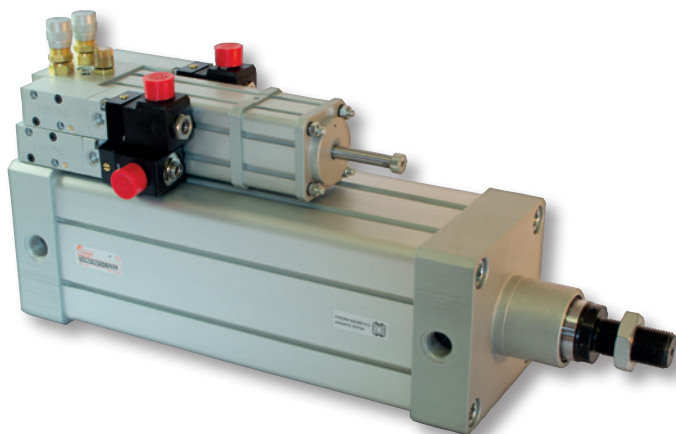
*Mounting dimensions
according to ISO 15552*



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/NO

Available the option of level sensor on the oil tank

End stroke hydraulic cushionings

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

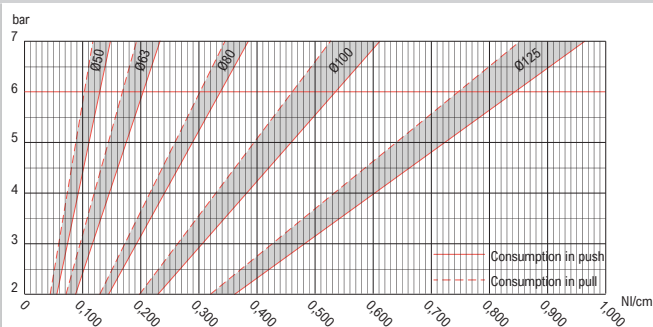
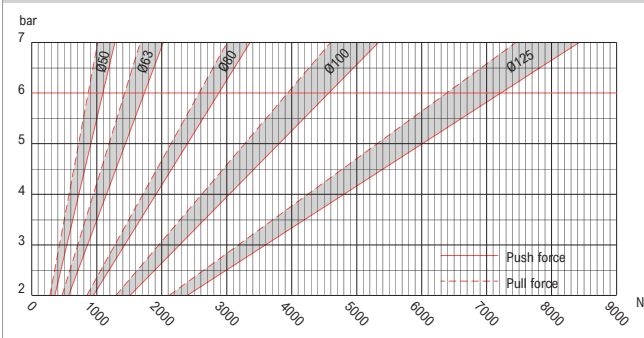
TECHNICAL FEATURES

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	100, 150, 200, 250, 300, 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 ÷ 7 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:

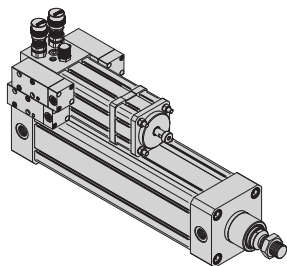
- The compressed air as driving power;
- The hydraulic system as control fluid.

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

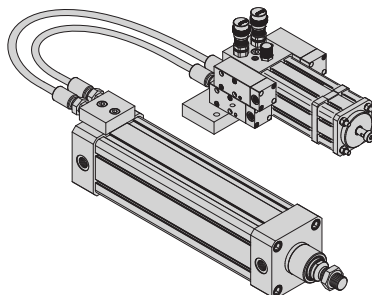
UI version

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



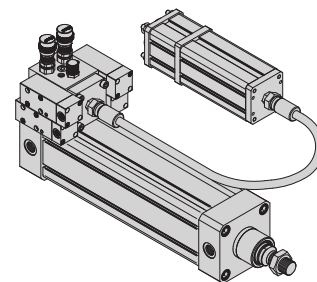
UT version

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

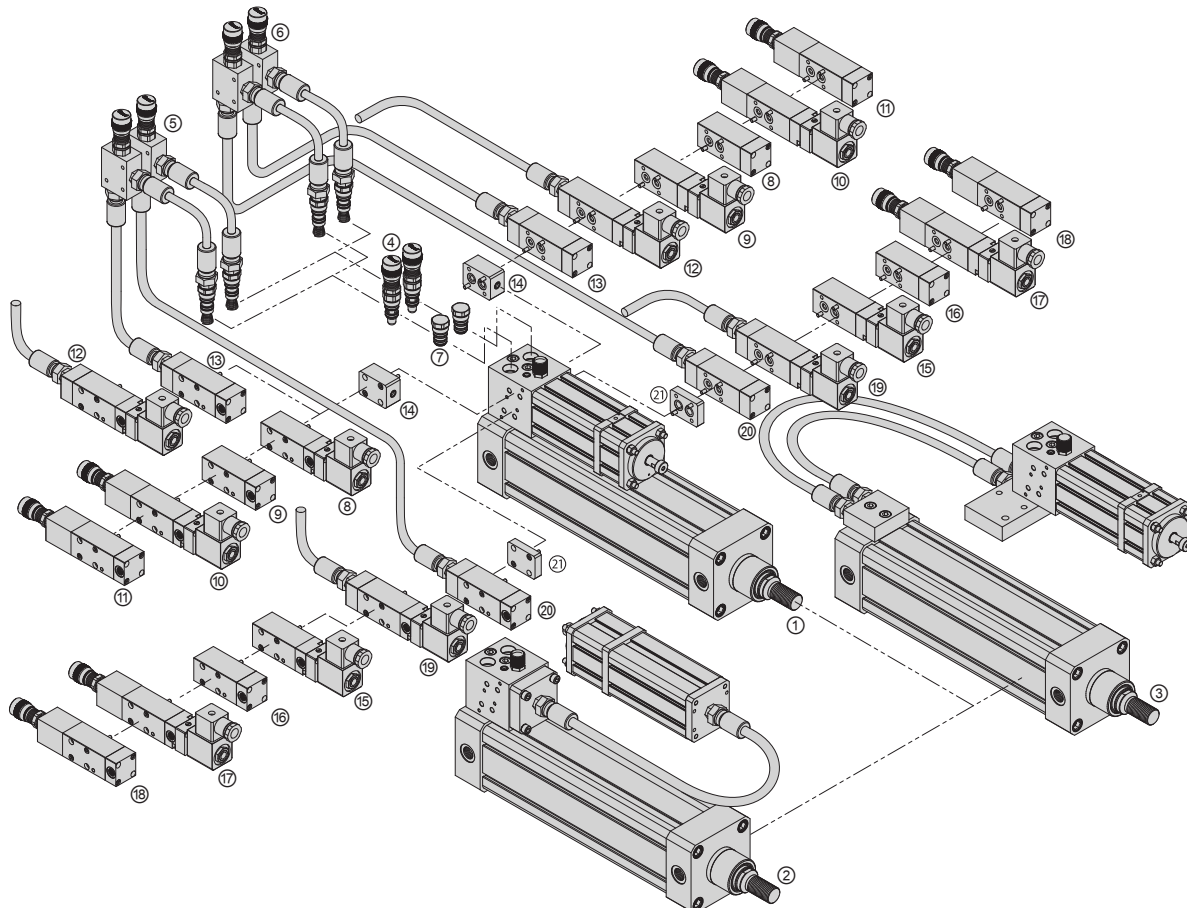


UB version

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



POS	DESCRIPTION	POS	DESCRIPTION
①	Units series UI	⑫	DOUBLE SKIP valve solenoid actuated with remoted speed adjustment
②	Units series UT	⑬	DOUBLE SKIP valve pneumatic actuated with remoted speed adjustment
③	Units series UB	⑭	Without STOP valves
④	Speed regulator	⑮	SKIP valve solenoid actuated
⑤	Speed regulator remoted on STOP valve	⑯	SKIP valve pneumatic actuated
⑥	Speed regulator remoted on SKIP valve	⑰	SKIP valve solenoid actuated with speed adjustment
⑦	Without speed regulators	⑱	SKIP valve pneumatic actuated with speed adjustment
⑧	STOP valve solenoid actuated	⑲	SKIP valve solenoid actuated with remoted speed adjustment
⑨	STOP valve pneumatic actuated	⑳	SKIP valve pneumatic actuated with remoted speed adjustment
⑩	DOUBLE SKIP valve solenoid actuated with speed adjustment	㉑	Without SKIP valves
⑪	DOUBLE SKIP valve pneumatic actuated with speed adjustment		



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.

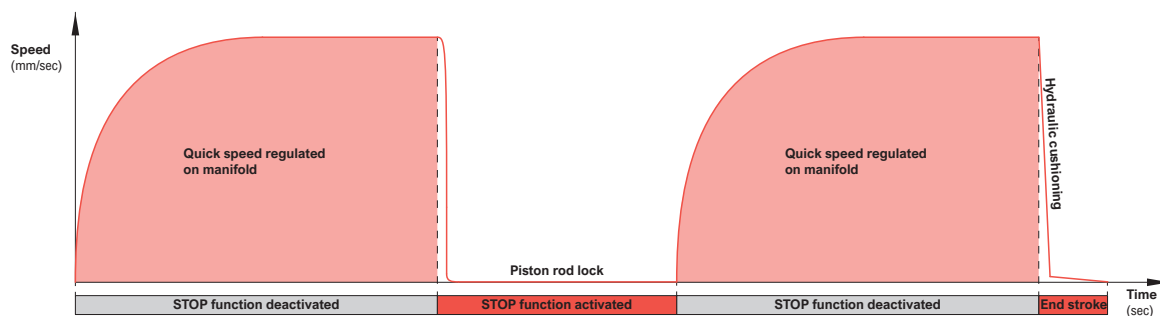
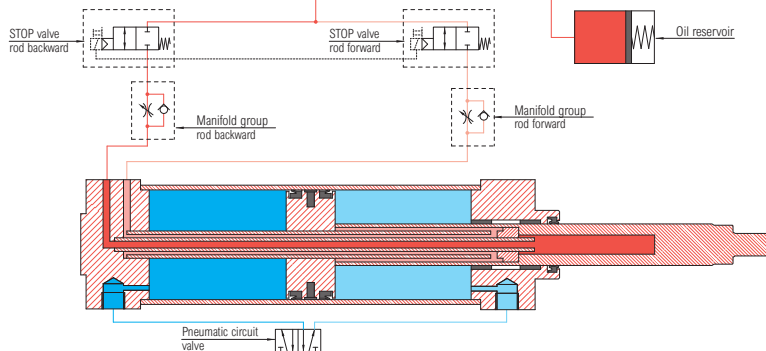
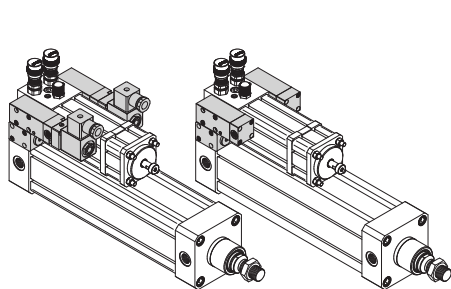
Thanks to an accurate technical design the functions of the pneumo-hydraulic unit can be customized by the customer placing the order and the consequent combining in the mounting of the SKIP and STOP control valves and of the speed regulators.

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.

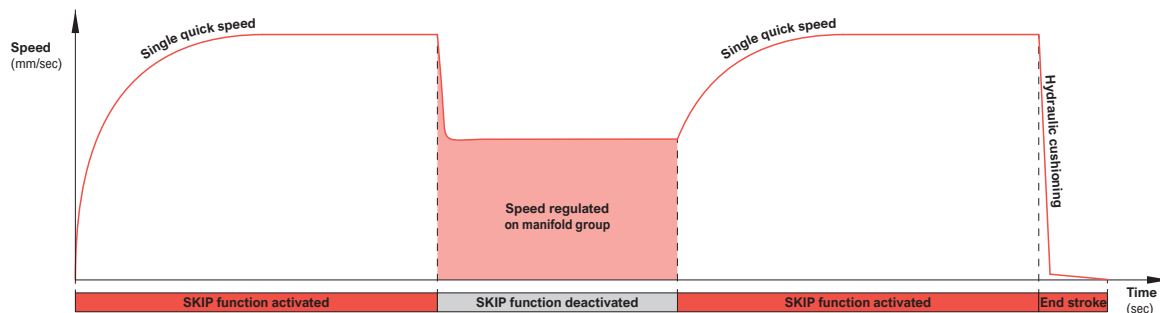
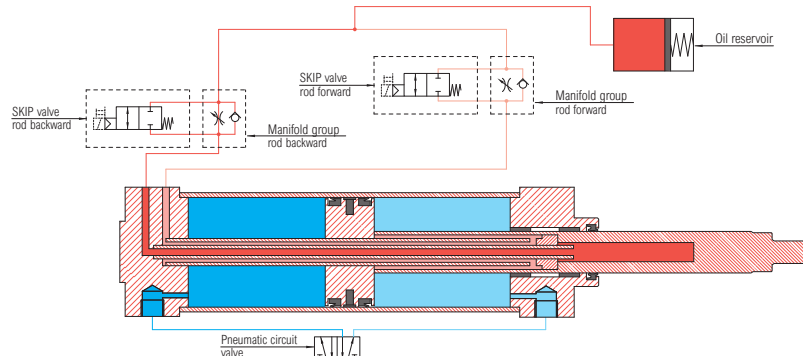
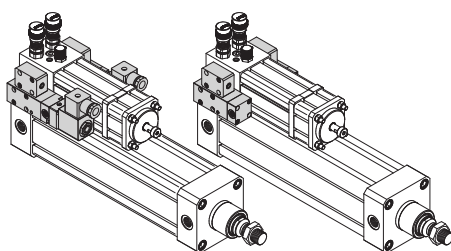
UNIT WITH STOP FUNCTION VALVES

Hydraulic speed regulation separated in forward and return strokes. STOP function. Solenoid or pneumatic actuators.



UNIT WITH STOP FUNCTION VALVES

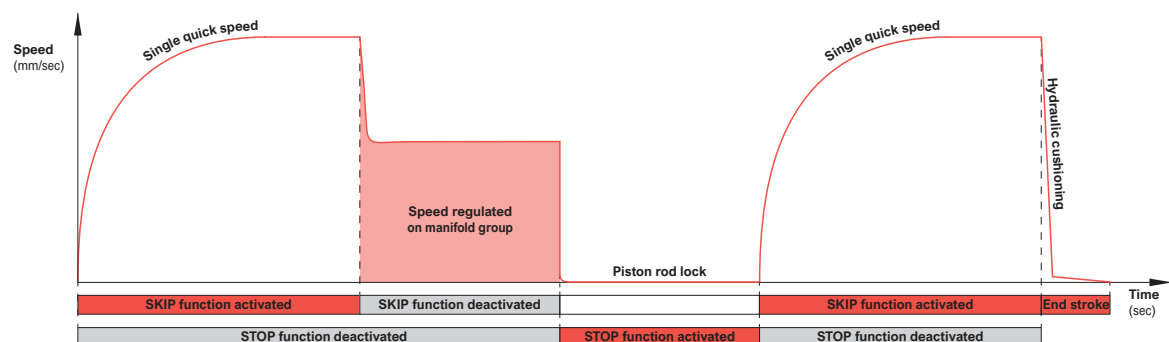
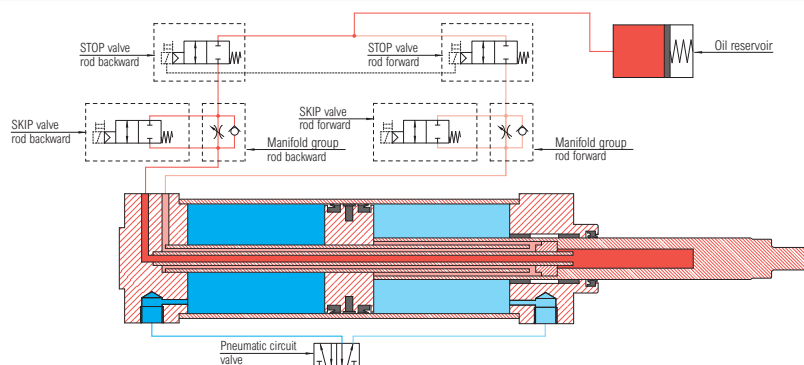
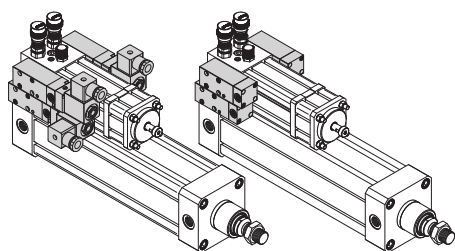
Quick speed in forward and return strokes. SKIP function with hydraulic regulation of the speed separated in forward and return strokes. Solenoid or pneumatic actuators.



PRINCIPLES OF OPERATION OF THE SKIP AND STOP CONTROL VALVES

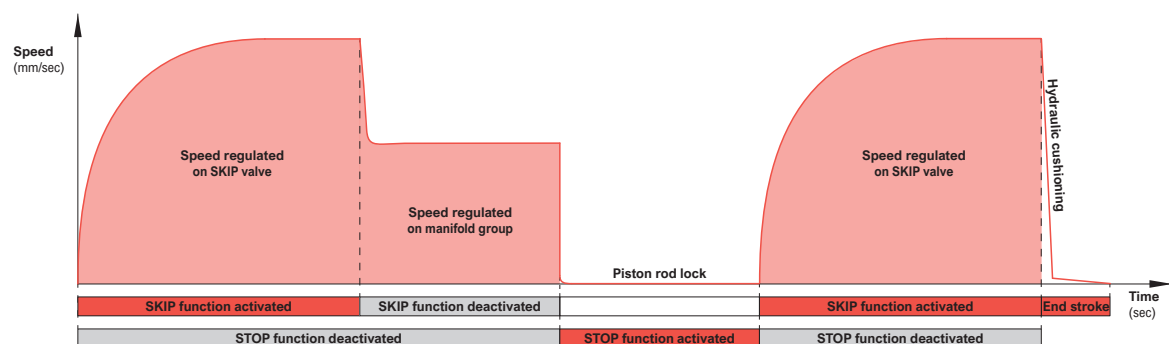
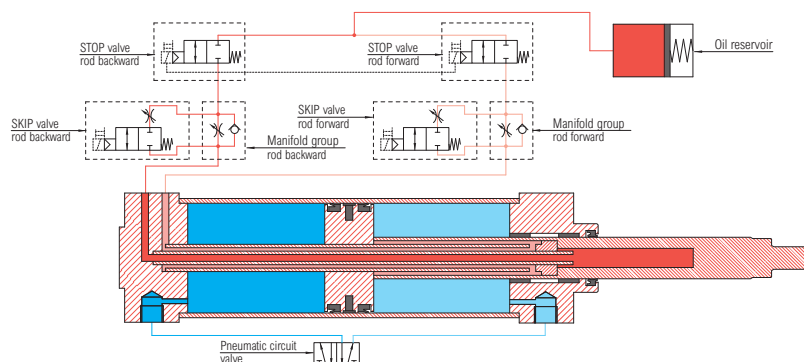
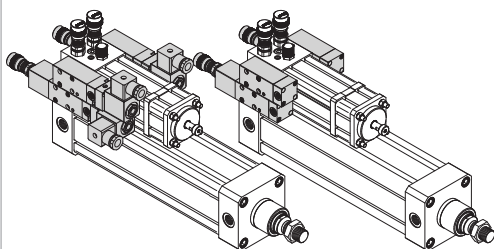
UNIT WITH SKIP AND STOP FUNCTION VALVES

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.



UNIT WITH ADJUSTABLE SKIP AND STOP FUNCTION VALVES

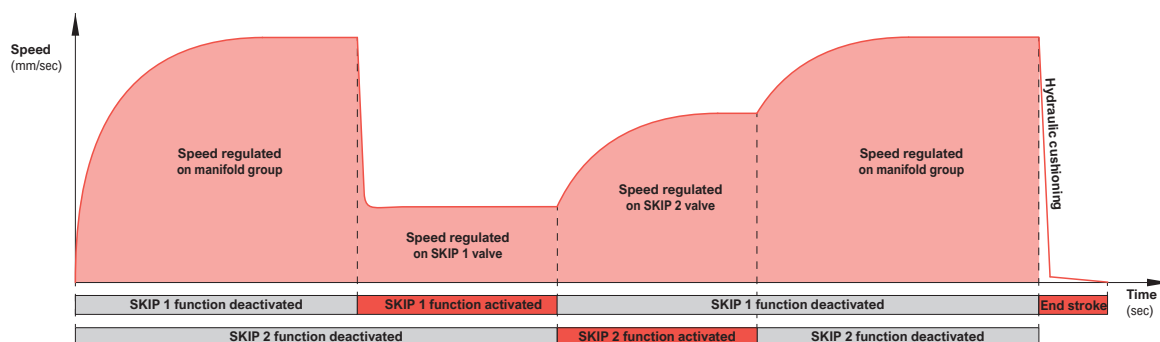
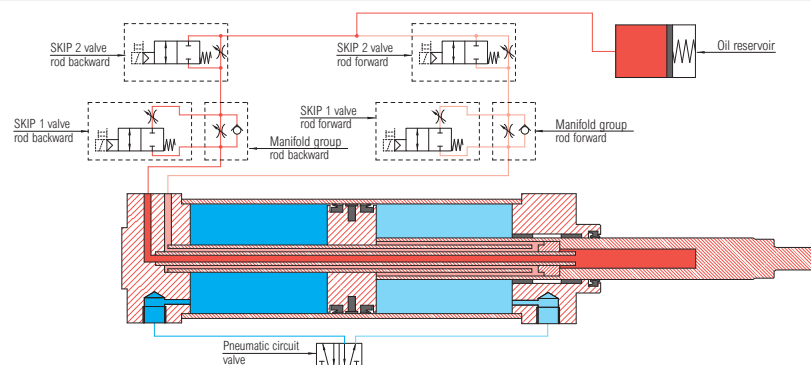
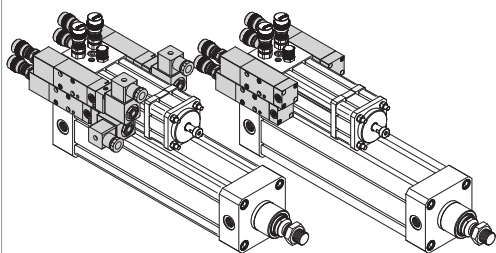
Double hydraulic speed regulation separated in forward and return strokes. STOP function. Solenoid or pneumatic actuators.



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.



SPEED AND PRECISION OF POSITIONING

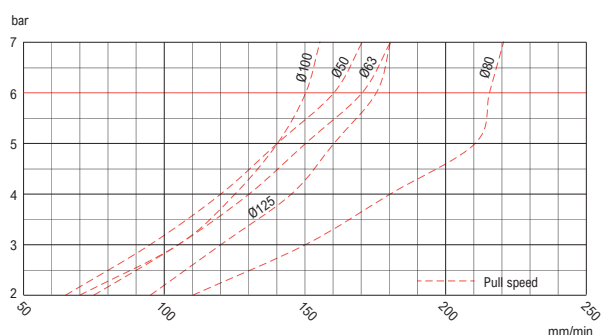
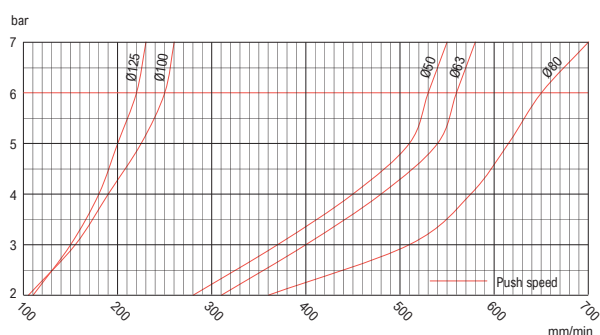
The average figures mentioned on the following diagrams give indications about the speed and stop stroke in function of the bore and the inlet pressure of the unit, at the ambient temperature of 20°C, with pneumatic inlet valves with nominal flow capacity equal to the connection on the caps of the unit.

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

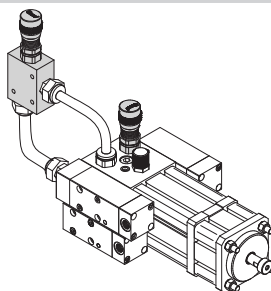
It is suggested to use the STOP valve with a SKIP valve in order to reduce the speed near the stop position. This guarantees a constant stop position equal to $\pm 0,3$ mm with SKIP valve setted to 10 mm/sec.

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

THEORETICAL DIAGRAM OF THE SPEEDS



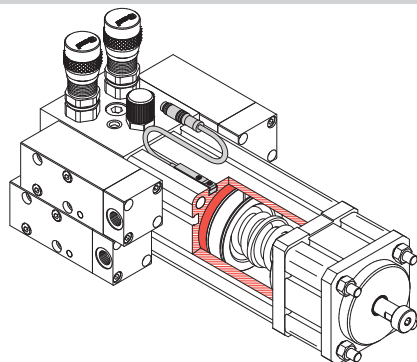
REGULATION OF THE SPEED STANDARD AND PRECISE



The pneumo-hydraulic **UI** units are equipped with hydraulic speed regulators on the manifold group or remotely to allow the regulation on panel or in case the pneumo-hydraulic unit is located in difficult position.

Both types can be supplied with on higher regulation precision without changing the dimension of the regulator.

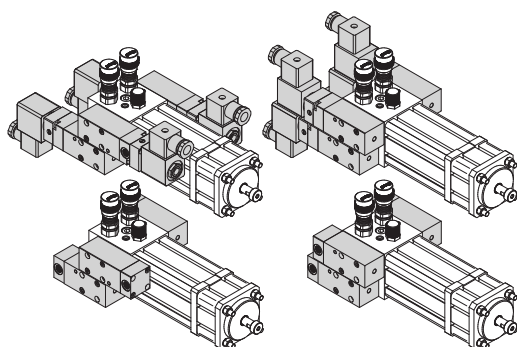
OPTIONS



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.

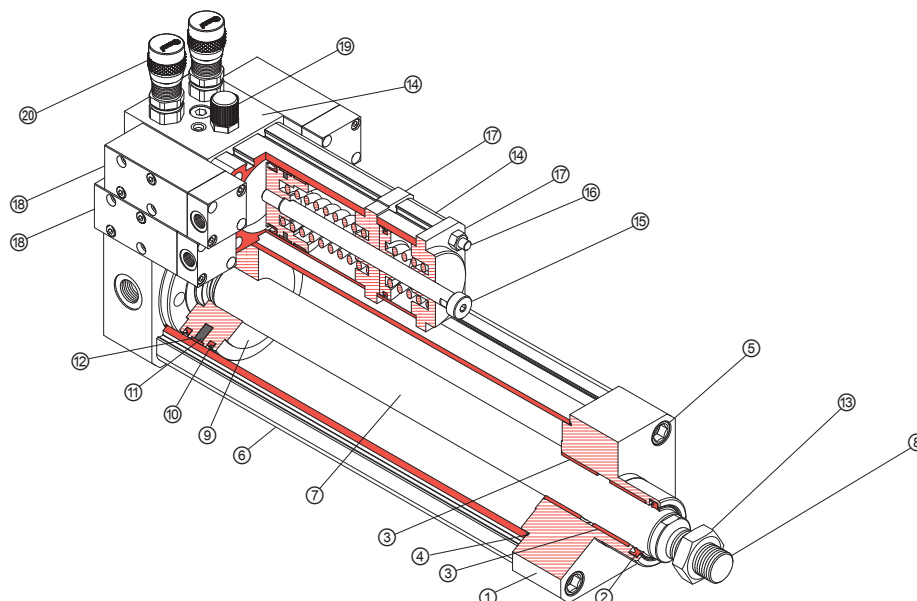
Unless different instructions placing the order the control and the regulation valves will be assembled reducing the dimension of the unit.

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
⑪	Magnet	Plastoferrite	㉒	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 remotet *
 UB = Manifold group mounted on the rear cap, tank remotet *

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

FUNCTION

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 (on manifold group)
 S = Single hydraulic regulation, in forward (on manifold group)
 T = Single hydraulic regulation, in return (on manifold group)
 F = Double precise hydraulic regulation (on manifold group)
 G = Single precise hydraulic regulation in forward (on manifold group)
 H = Single precise hydraulic regulation in return (on manifold group)
 A = Double hydraulic regulation (remoted) **
 B = Single hydraulic regulation, in forward (remoted) **
 C = Single hydraulic regulation, in return (remoted) **
 I = Double precise hydraulic regulation (remoted) **
 L = Single precise hydraulic regulation, in forward (remoted) **
 M = Single precise hydraulic regulation, in return (remoted) **
 N = Without regulation

CONTROL VALVES SKIP / STOP

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

CONTROL VALVE
STOP - IN FORWARD

CONTROL VALVE
STOP - IN RETURN

CONTROL VALVE
SKIP - IN FORWARD

CONTROL VALVE
SKIP - IN RETURN

Electrical features: see page 2.1.05.28

ACTUATOR PNEUMATIC PORTS

NULL = Standard (on the left side)
 D = Optional (on the right side)

OPTIONS

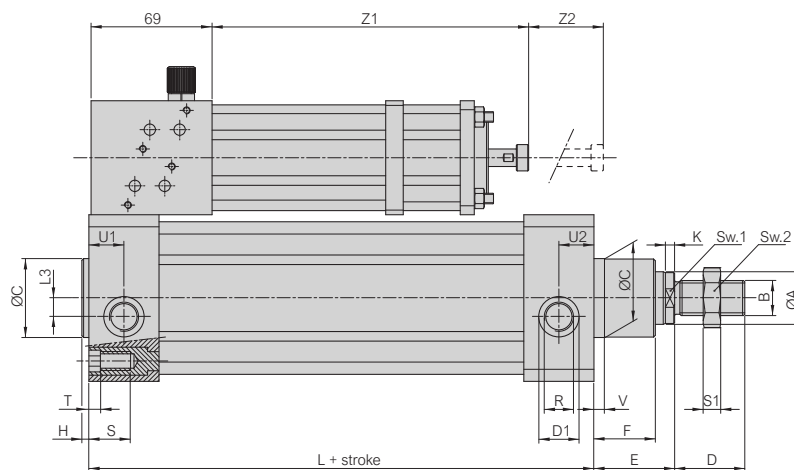
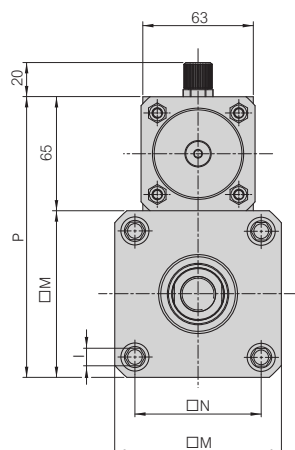
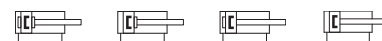
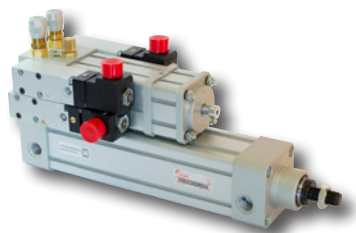
NULL = Standard
 P = Customized (to be agreed with the commercial department):
 • Oil tank with magnetic piston for mounting the level sensor
 • Customized mounting of the control valves

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

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

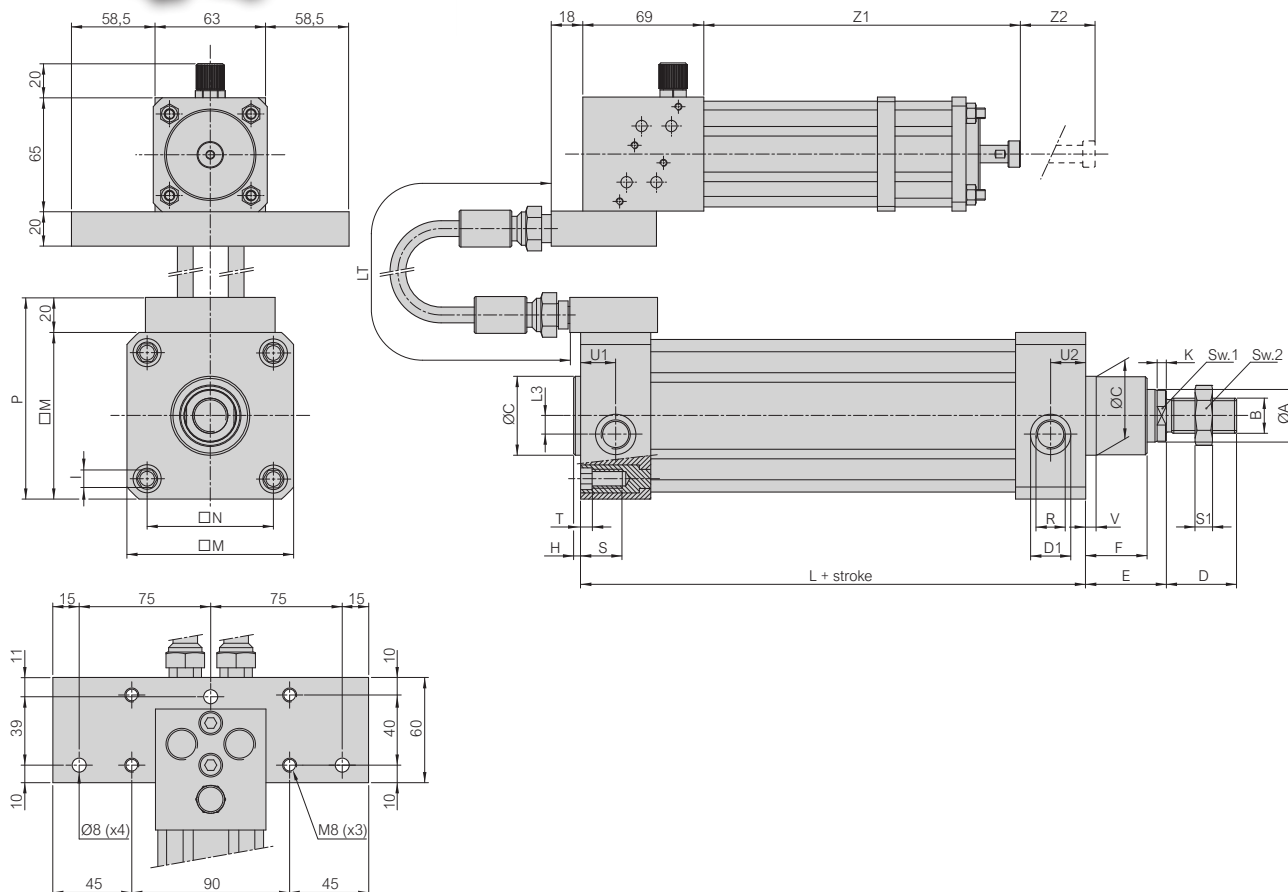
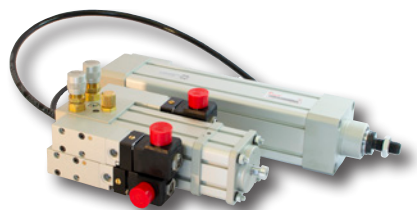
Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.

UI...



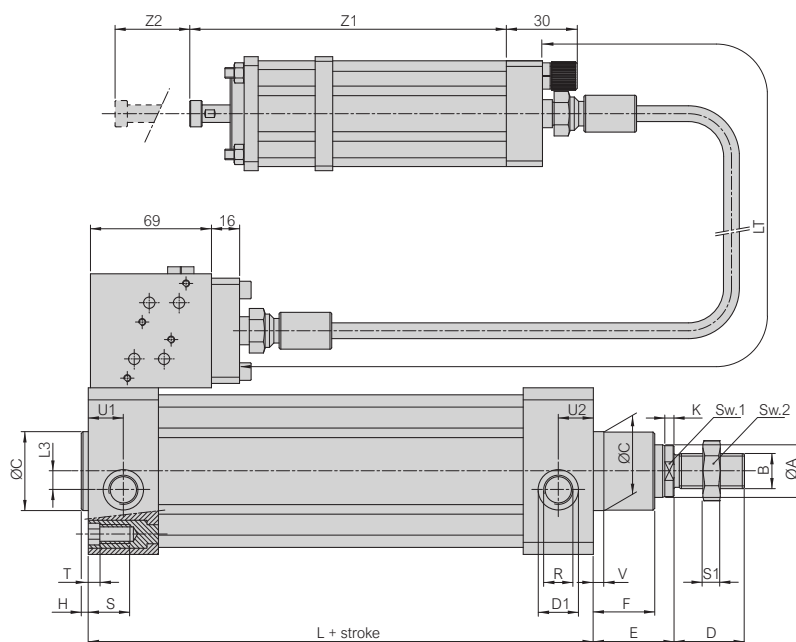
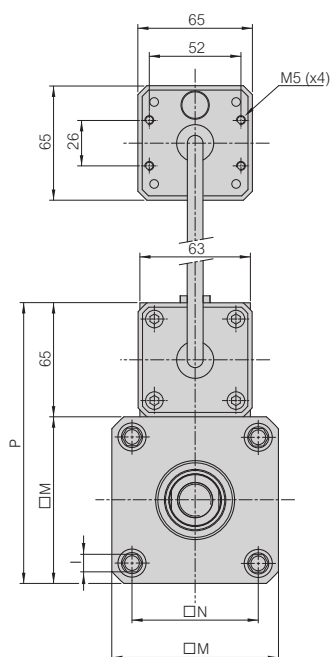
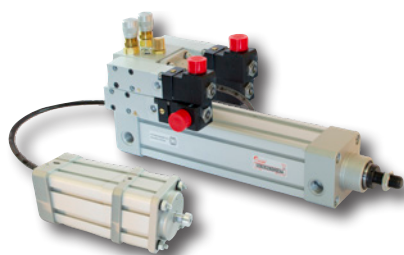
Bore	Ø A	B	Ø C	D	D1	E	F	H	I	K	L+	L3	□ M	□ N	P	R	S	S1	SW1	SW2	T	U1	U2	V			
mm	f7		d11	⁰ ₋₂													Min	Ch	Ch								
50	25	M16 x 1,5	40	32	19	37	±1,4	26	4	M8	5	106	±0,7	8	65	46,5	±0,6	130	Gas 1/4"	20	8	23	23	5,5	26	20	10
63	30	M16 x 1,5	45	32	23	37		26	4	M8	5	121	±0,8	11	75	56,5		140	Gas 3/8"	22	8	27	23	8	22	23	4
80	30	M20 x 1,5	45	40	23	46	±1,8	35	4	M10	5	128		0	95	72	±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		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	±2,2	50	6	M12	6	160	±1	0	140	110	±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															
mm	Stroke 50 ÷ 170	Stroke 171 ÷ 420	Stroke 421 ÷ 590	Stroke 591 ÷ 745	Stroke 746 ÷ 900	Stroke 901 ÷ 1130																					
50	130	10	180	26	220	36	243	46	290	55	322	70															
Bore	Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2									
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 ÷ 125	130	10	180	26	220	36	243	46	290	55	322	70	366	85	432	100	520	115									

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	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													
mm	Stroke 50 ÷ 170		Stroke 171 ÷ 420		Stroke 421 ÷ 590		Stroke 591 ÷ 745		Stroke 746 ÷ 900		Stroke 901 ÷ 1130																
50	130	10	180	26	220	36	243	46	290	55	322	70															
Bore	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 ÷ 220		Stroke 221 ÷ 320		Stroke 321 ÷ 410		Stroke 411 ÷ 510		Stroke 511 ÷ 640		Stroke 641 ÷ 800		Stroke 801 ÷ 950		Stroke 951 ÷ 1100										
63 ÷ 125	130	10	180	26	220	36	243	46	290	55	322	70	366	85	432	100	520	115									
Bore	LT																										
mm	Standard																										
50 ÷ 125	500 (x2)		Different lenghts must be specified placing the order.																								

UB...

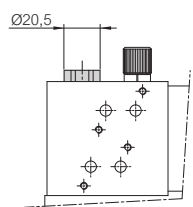
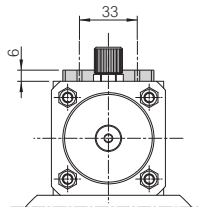
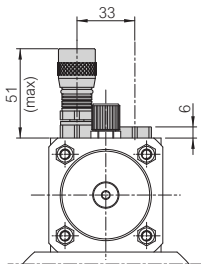
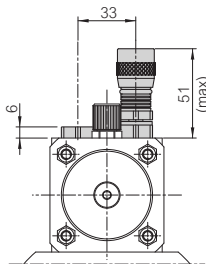
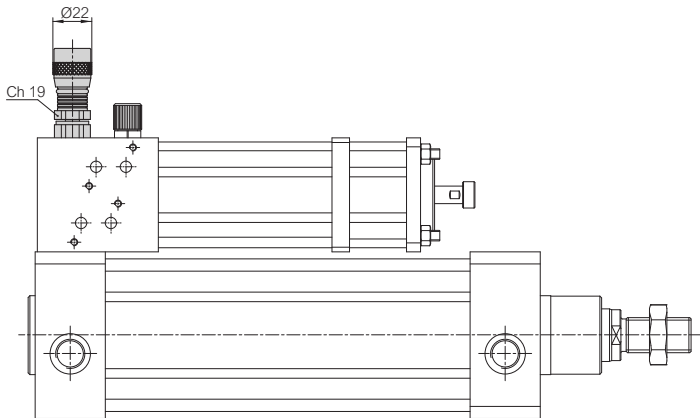
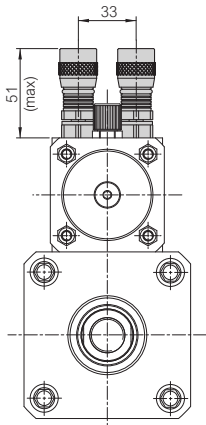


Bore	Ø A	B	Ø C	D	D1	E	F	H	I	K	L+	L3	□ M	□ N	P	R	S	S1	SW1	SW2	T	U1	U2	V			
mm	f7		d11	0 -2														Min	Ch	Ch							
50	25	M16 x 1,5	40	32	19	37	±1,4	26	4	M8	5	106	±0,7	8	65	46,5	±0,6	130	Gas 1/4"	20	8	23	23	5,5	26	20	10
63	30	M16 x 1,5	45	32	23	37		26	4	M8	5	121	±0,8	11	75	56,5		140	Gas 3/8"	22	8	27	23	8	22	23	4
80	30	M20 x 1,5	45	40	23	46	±1,8	35	4	M10	5	128		0	95	72	±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		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	±2,2	50	6	M12	6	160	±1	0	140	110	±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													
mm	Stroke 50 ÷ 170		Stroke 171 ÷ 420		Stroke 421 ÷ 590		Stroke 591 ÷ 745		Stroke 746 ÷ 900		Stroke 901 ÷ 1130																
50	130	10	180	26	220	36	243	46	290	55	322	70															
Bore	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 ÷ 220		Stroke 221 ÷ 320		Stroke 321 ÷ 410		Stroke 411 ÷ 510		Stroke 511 ÷ 640		Stroke 641 ÷ 800		Stroke 801 ÷ 950		Stroke 951 ÷ 1100										
63 ÷ 125	130	10	180	26	220	36	243	46	290	55	322	70	366	85	432	100	520	115									
Bore	LT																										
mm	Standard																										
50 ÷ 125	500 (x1)		Different lenghts must be specified placing the order.																								



SPEED REGULATORS

Speed regulators on manifold group standard / precise

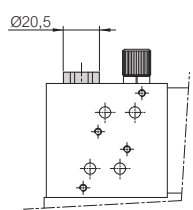
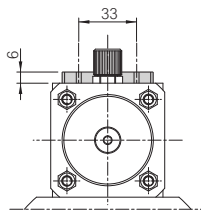
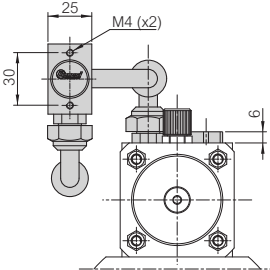
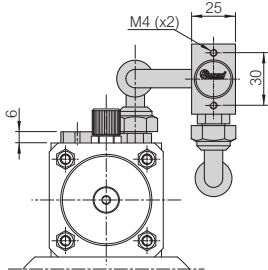
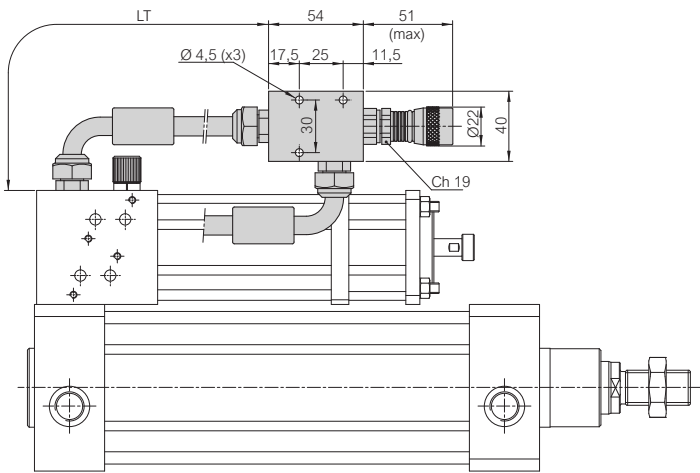
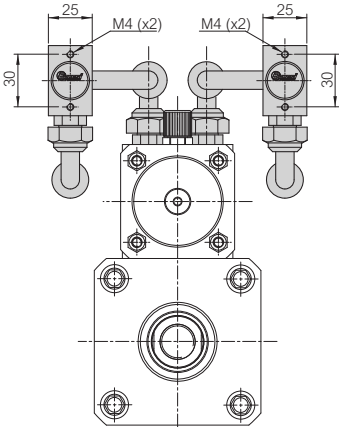


Hydraulic regulation ONLY in piston rod forward

Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

Speed regulators remoted standard / precise



Hydraulic regulation ONLY in piston rod forward

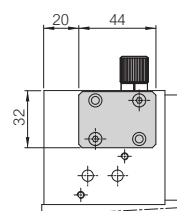
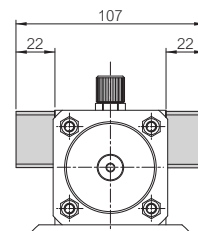
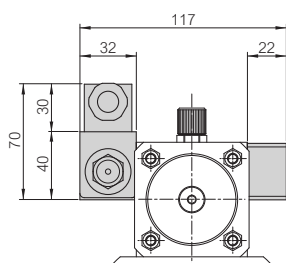
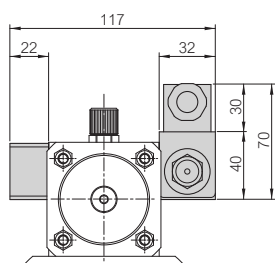
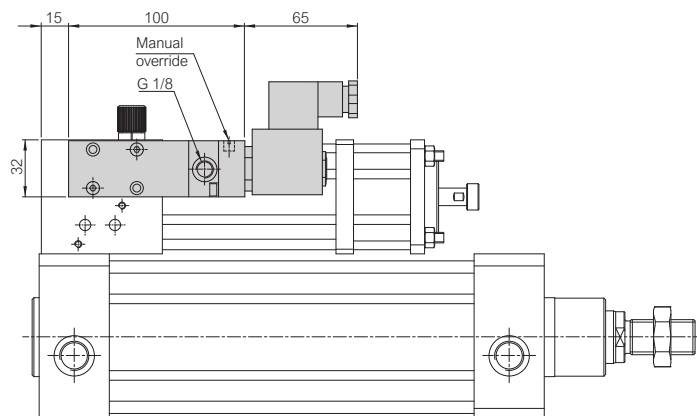
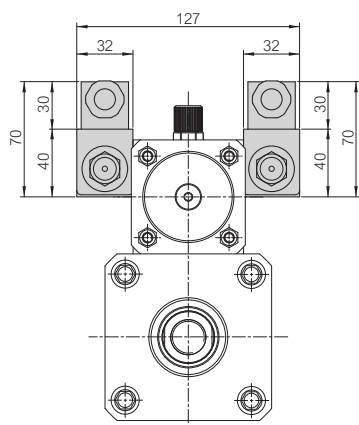
Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

Bore	LT
mm	Standard
50 ÷ 125	1000 (x4 - x2) Different lengths must be specified placing the order.

STOP CONTROL VALVES

STOP control valves solenoid actuated

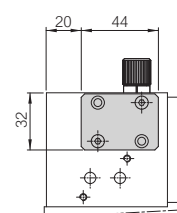
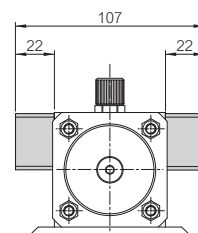
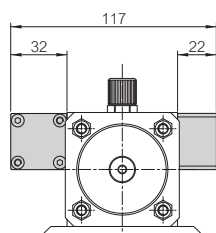
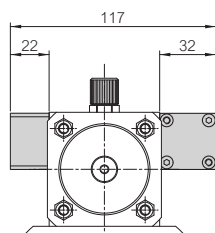
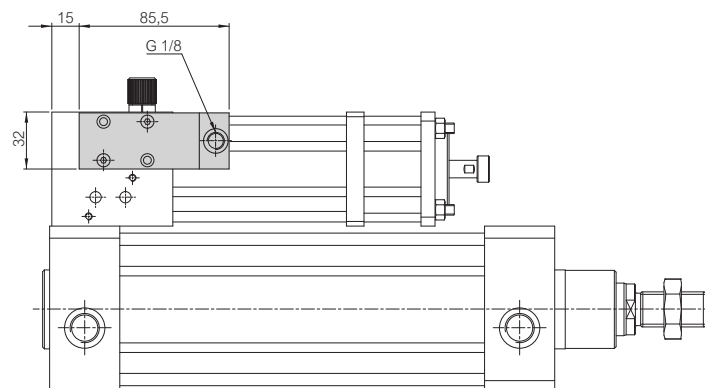
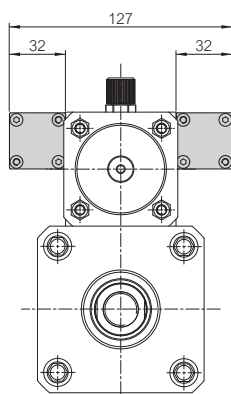


Hydraulic regulation ONLY in piston rod forward

Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

STOP control valves pneumatic actuated



Hydraulic regulation ONLY in piston rod forward

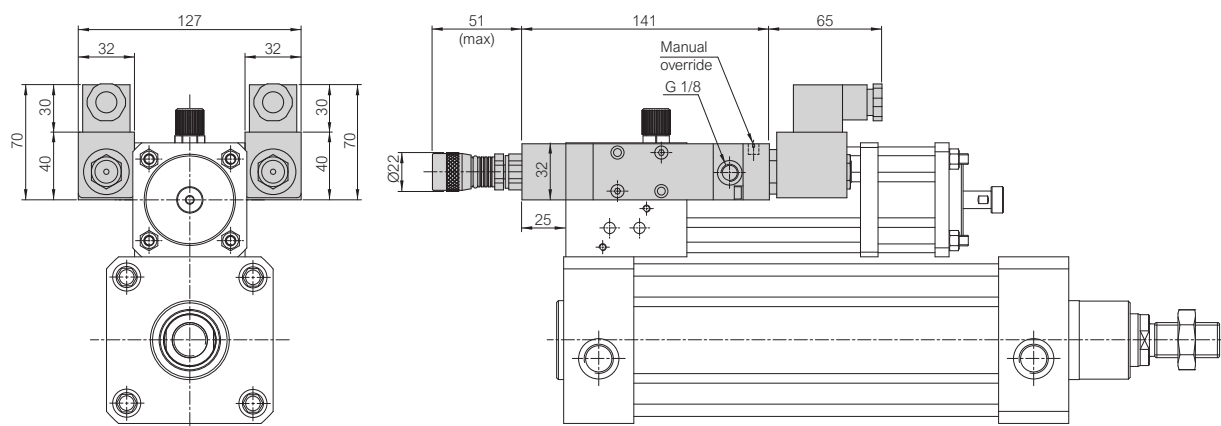
Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

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



Hydraulic regulation ONLY in piston rod forward

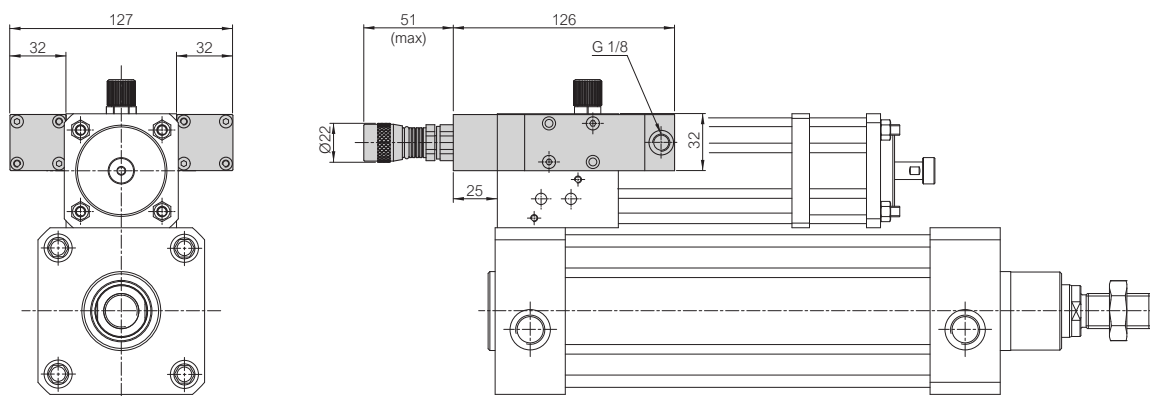
Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

2

PNEUMO-HYDRAULIC ACTUATORS

STOP control valves pneumatic actuated with speed adjustment



Hydraulic regulation ONLY in piston rod forward

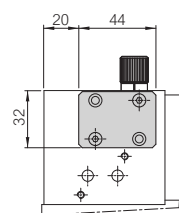
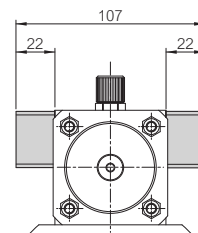
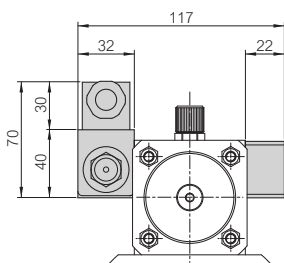
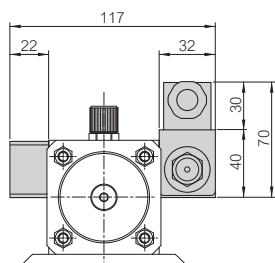
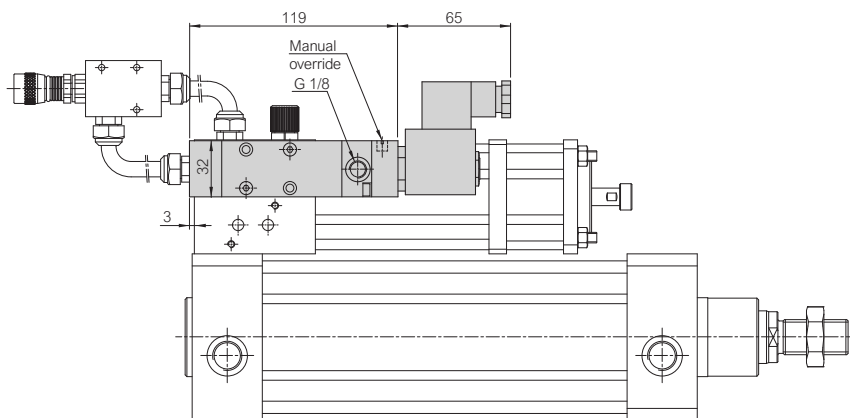
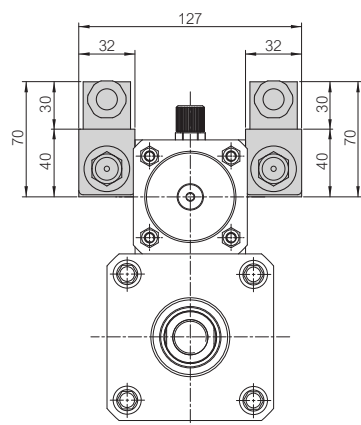
Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

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

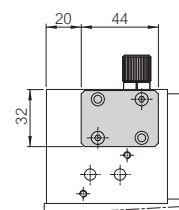
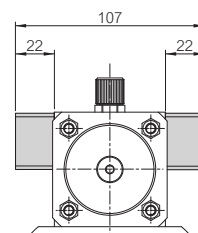
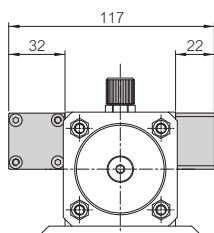
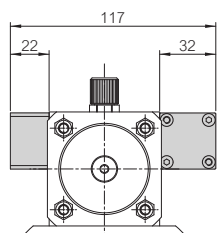
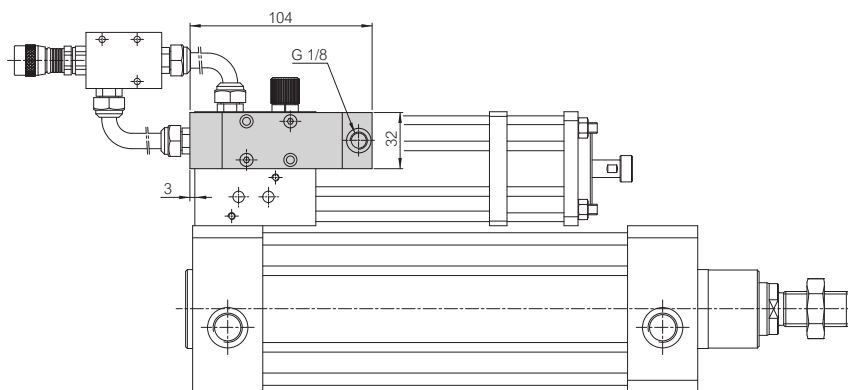
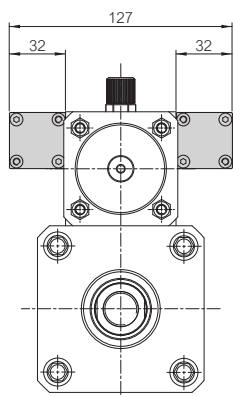


Hydraulic regulation ONLY in piston rod forward

Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

STOP control valves pneumatic actuated with remoted speed adjustment



Hydraulic regulation ONLY in piston rod forward

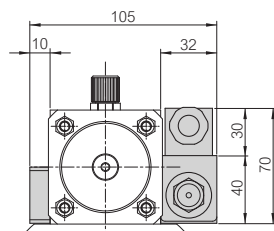
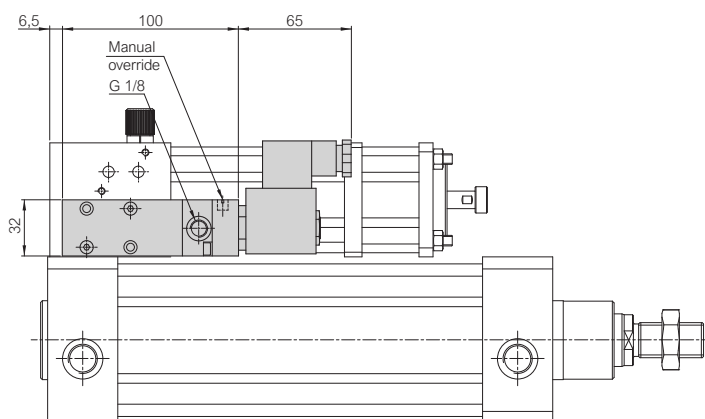
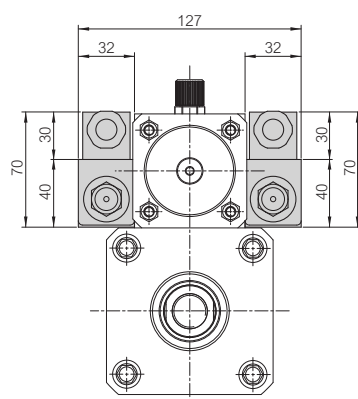
Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

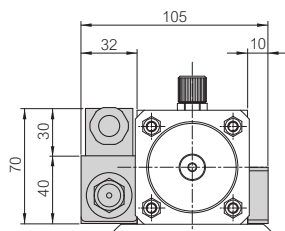
Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.

SKIP CONTROL VALVES

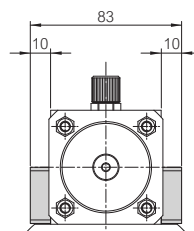
SKIP control valves solenoid actuated



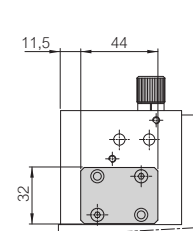
Hydraulic regulation ONLY in piston rod forward



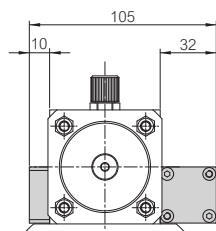
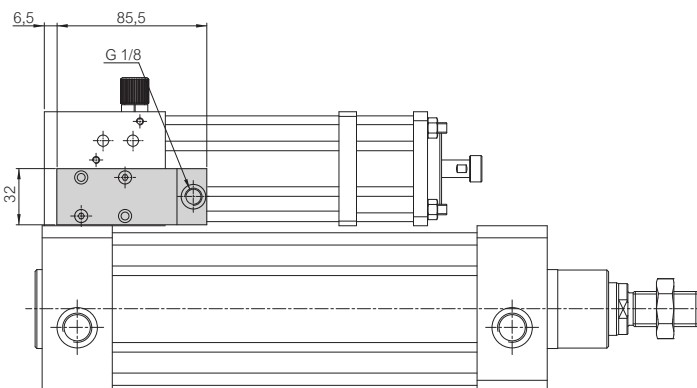
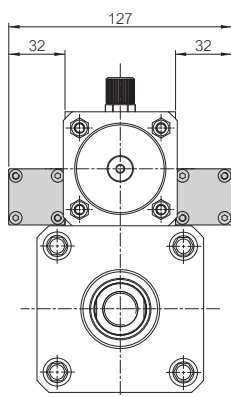
Hydraulic regulation ONLY in piston rod return



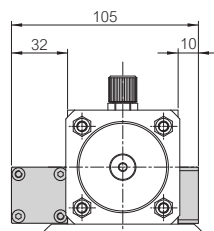
WITHOUT hydraulic regulation



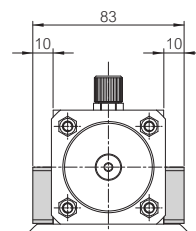
SKIP control valves pneumatic actuated



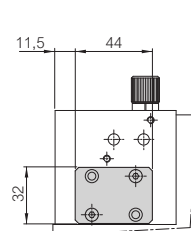
Hydraulic regulation ONLY in piston rod forward



Hydraulic regulation ONLY in piston rod return



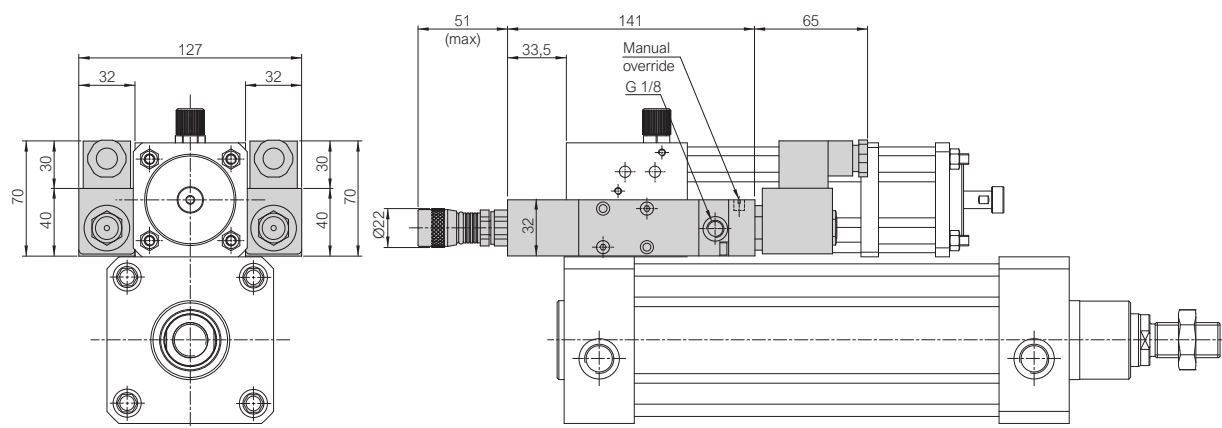
WITHOUT hydraulic regulation



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

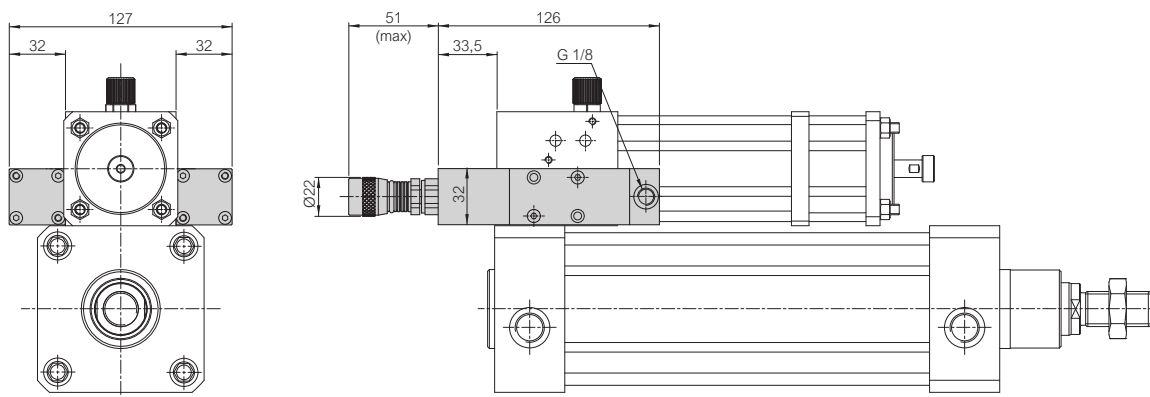


Hydraulic regulation ONLY in piston rod forward

Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

SKIP control valves pneumatic actuated with speed adjustment



Hydraulic regulation ONLY in piston rod forward

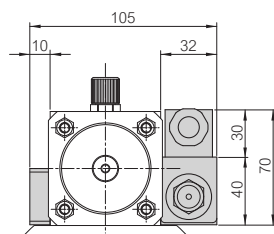
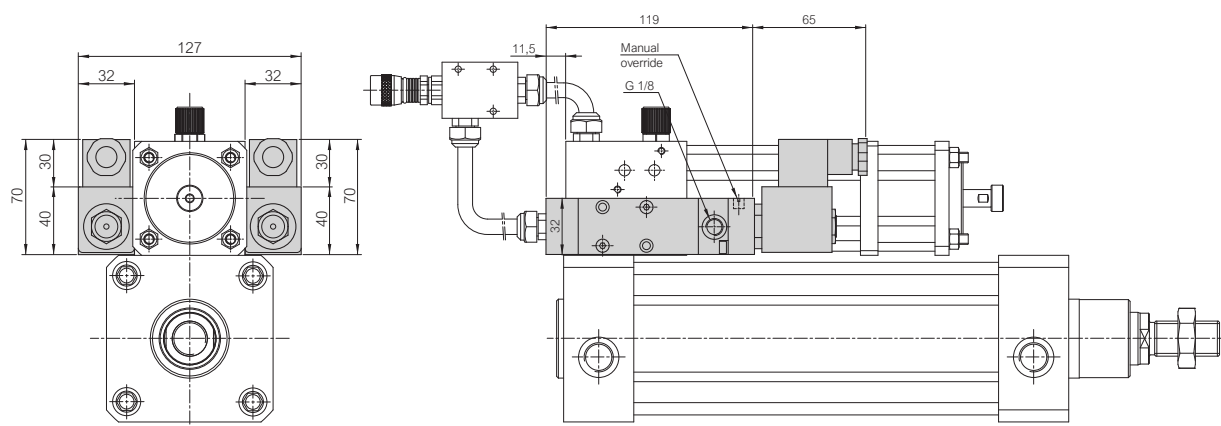
Hydraulic regulation ONLY in piston rod return

WITHOUT hydraulic regulation

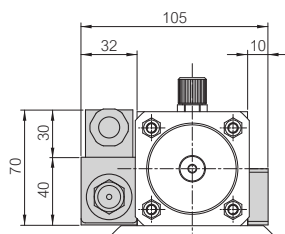
Unless different instructions placing the order : the control and the regulation valves will be assembled reducing the dimension of the unit.

SKIP CONTROL VALVES

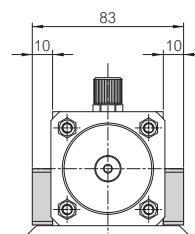
SKIP control valves solenoid actuated with remoted speed adjustment



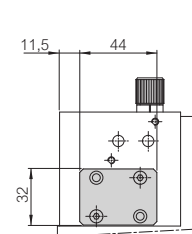
Hydraulic regulation ONLY in piston rod forward



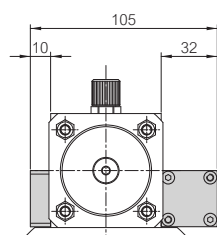
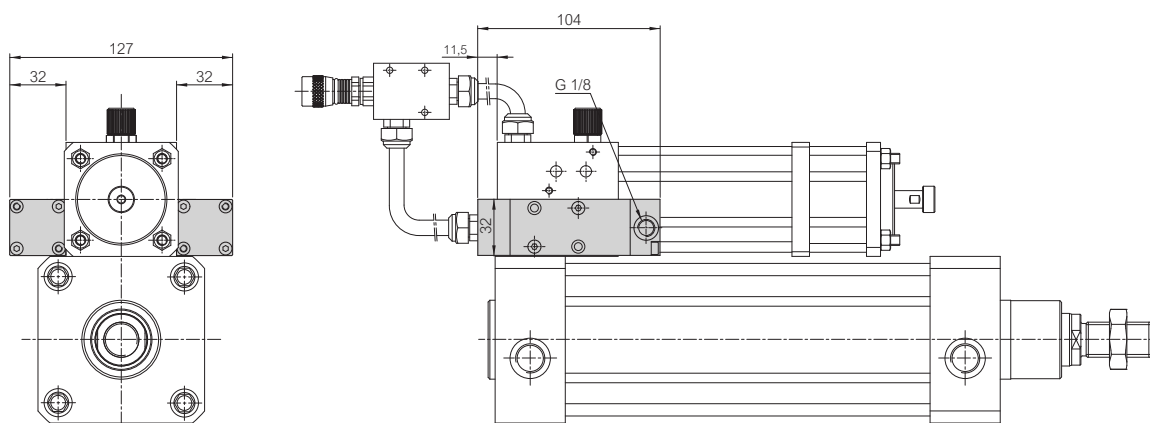
Hydraulic regulation ONLY in piston rod return



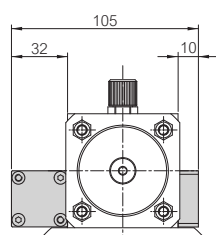
WITHOUT hydraulic regulation



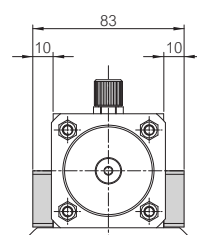
SKIP control valves pneumatic actuated with remoted speed adjustment



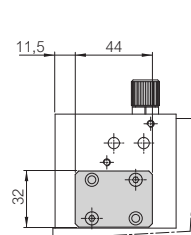
Hydraulic regulation ONLY in piston rod forward



Hydraulic regulation ONLY in piston rod return

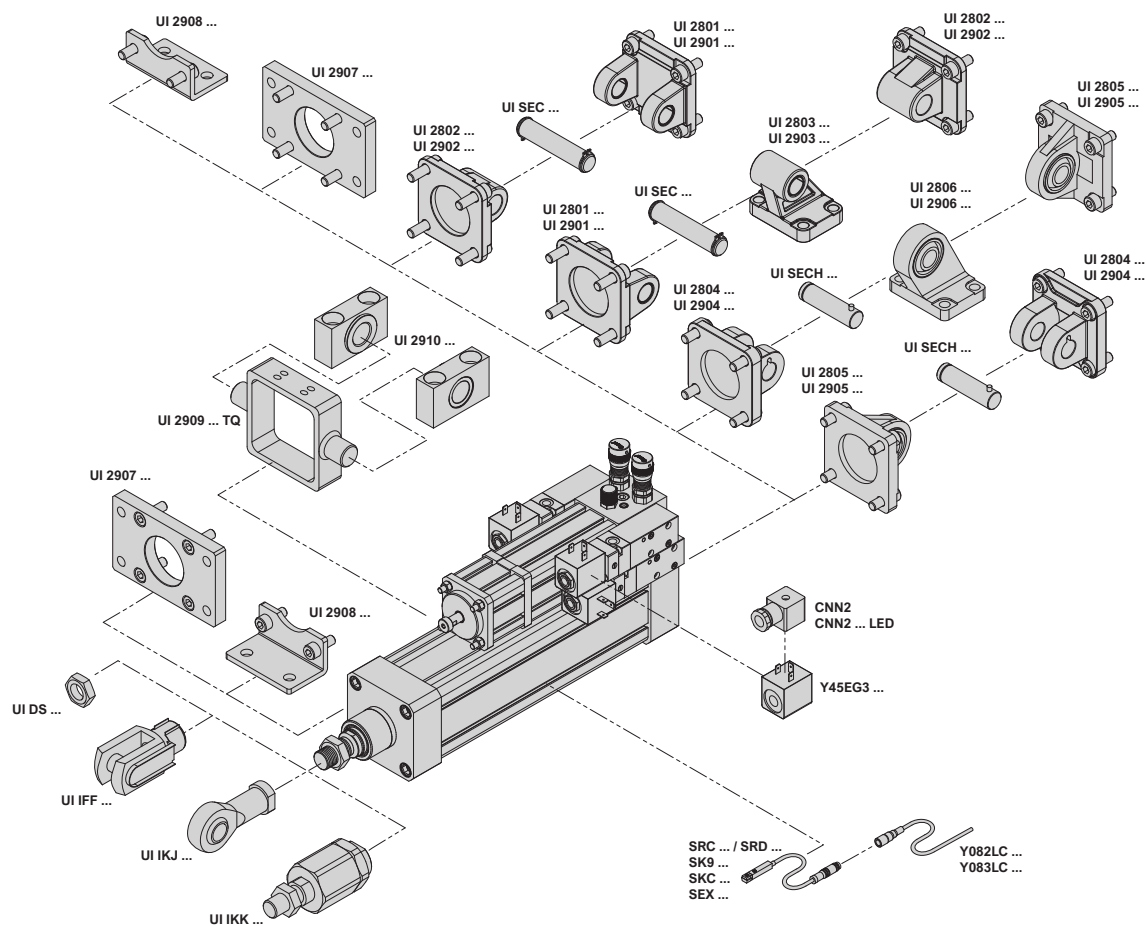


WITHOUT hydraulic regulation



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

ACCESSORIES



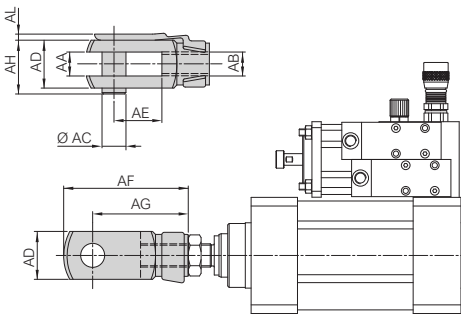
All mounting accessories are supplied complete with screws for fixing to cylinder

	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	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	UI 2903 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	UI 2903 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	UI 2903 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	UI 2903 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	UI 2903 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	Light alloy	Painted steel black cataphoresis	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 2.1.05.22	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 2909 050 TQ	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 2909 063 TQ	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 2909 080 TQ	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 2909 100 TQ	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 2909 125 TQ	UI 2910 125
	Light alloy	Painted steel black cataphoresis	Light alloy	Painted steel black cataphoresis	Light alloy	Painted steel black cataphoresis	White zinc coating steel	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)		SUPERMATIC46 Fluid for hydraulic circuit	UI SG ... Standard seals kit
					
Ø	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		Oil DEXRON II Package: 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 ...		Bore	Code	AA	AB	Ø AC	AD	AE	AF	AG	AH	AL
Female clevis		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												

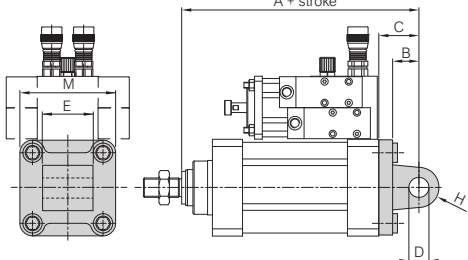
UI IKJ ... Self-lubricating oscillating joint	Bore mm	Code	AB	Ø AC H7	AM	AN	AO	AP	AQ	Ø AR	Ø AS	Ø AT	AU	AV	AZ
	50	UI IKJ 050	M16 x 1,5	16	28	22	42	21	15	19,3	22	27	8	64	85
	63	UI IKJ 063	M16 x 1,5	16	28	22	42	21	15	19,3	22	27	8	64	85
	80	UI IKJ 080	M20 x 1,5	20	33	30	50	25	18	24,3	27,5	34	10	77	102
	100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

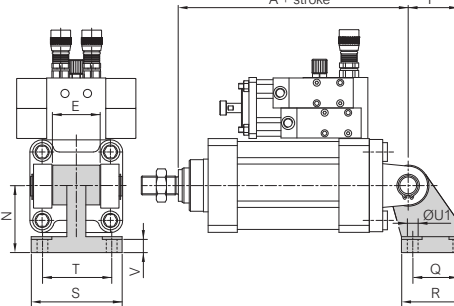
UI IKK ... Self-aligning joint angular and radial	Bore mm	Code	A	B	C	D	E	Ø F	Ø G	Ø H	L	M	Ch1	Ch2	Ch3	°β	Static load daN
	50	UI IKK 050	M16 x 1,5	104	32	10	53	22	32	45	2	30	20	27	41	6	1000
	63	UI IKK 063	M16 x 1,5	104	32	10	53	22	32	45	2	30	20	27	41	6	1000
	80	UI IKK 080	M20 x 1,5	119	40	10	53	22	32	45	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 steel, pin in burnished steel / 1 piece each package																	

UI DS ... Rod nut	Bore mm	Code	B	S1	Sw.2 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 ±0,2	D H9	E H14	F h14	M	H	Fixing screw ISO 4762	
	50	UI 2801 050 UI 2901 050	170	±1,25	16	27	12	32	60	65	12	M8 x 25
	63	UI 2801 063 UI 2901 063	190	±1,6	21	32	16	40	70	75	16	M8 x 25
	80	UI 2801 080 UI 2901 080	210		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 ±0,2	D H9	E	M	H	Fixing screw ISO 4762		
	50	UI 2802 050 UI 2902 050	170	±1,25	16	27	12	32	-0,2 -0,6	65	12	M8 x 25
	63	UI 2802 063 UI 2902 063	190	±1,6	21	32	16	40		75	16	M8 x 25
	80	UI 2802 080 UI 2902 080	210		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												

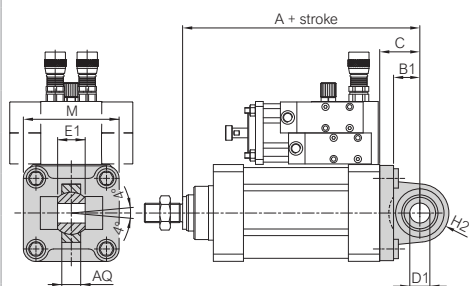
UI 2803 ... / UI 2903 ... Square joint at 90° (AB7)															
		Bore mm	Code	A+	E		N JS15	P JS14	Q JS14	R	S	T JS14	Ø U1 H13	V	
	50	UI 2803 050 UI 2903 050	170	±1,25	32	-0,2 -0,6	45	33	30	45	65	50	9	10,4	
	63	UI 2803 063 UI 2903 063	190		40		50	37	35	50	67	52	9	12,4	
	80	UI 2803 080 UI 2903 080	210	±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+	A+	B1	C ±0,2	D1 F7	E1 H14	F1 d12	H1	M	Fixing screw ISO 4762
	50	UI 2804 050 UI 2904 050	170	±1,25	16	27	16	21	45	14	65	M8 x 20
	63	UI 2804 063 UI 2904 063	190	±1,6	21	32	16	21	51	18	75	M8 x 20
	80	UI 2804 080 UI 2904 080	210		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)

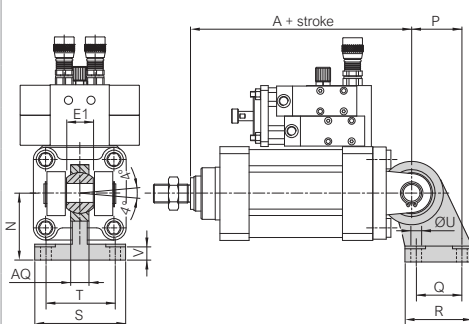


Bore mm	Code	A+	AQ	B1	C ±0,2	D H9	E1 ±0,2	M	H2	Fixing screw ISO 4762	
50	UI 2805 050 UI 2905 050	170	±1,25	15	16	27	12	21	65	21	M8 x 20
63	UI 2805 063 UI 2905 063	190		15	21	32	16	21	75	24	M8 x 20
80	UI 2805 080 UI 2905 080	210		18	22	36	16	25	95	28,5	M10 x 25
100	UI 2805 100 UI 2905 100	230		18	27	41	20	25	115	30	M10 x 25
125	UI 2805 125 UI 2905 125	275	±2	25	30	50	25	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

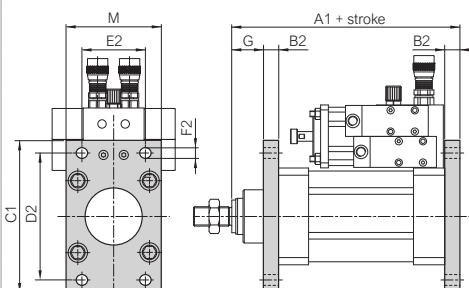


Bore	Code	A+	AQ	E1	N	P	Q	R	S	T	Ø U	V	
mm				0 -0,1	JS15	JS15	JS14			JS14	H13	+0,5 0	
50	UI 2806 050 UI 2906 050	170	±1,25	15	21	45	33	30	45	65	50	9	10,5
63	UI 2806 063 UI 2906 063	190	±1,6	15	21	50	37	35	50	67	52	9	10,5
80	UI 2806 080 UI 2906 080	210		18	25	63	47	40	60	86	66	11	11,5
100	UI 2806 100 UI 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)

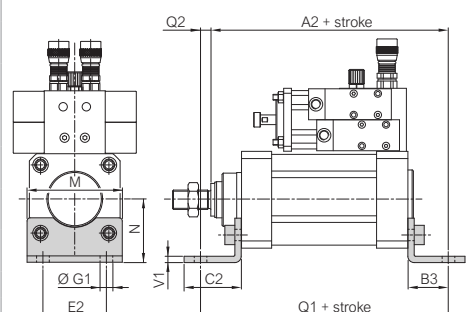


Bore mm	Code	A1+		B2 ±0,2	C1	D2 JS14	E2 JS14	F2 H13	G		M	Fixing screw ISO 4762
50	UI 2907 050	155	±1,25	12	110	90	45	9	25	±1,6	65	M8 x 20
63	UI 2907 063	170	±1,6	12	120	100	50	9	25	±2	75	M8 x 20
80	UI 2907 080	190		16	150	126	63	12	30		95	M10 x 20
100	UI 2907 100	205		16	170	150	75	14	35		115	M10 x 20
125	UI 2907 125	245	±2	20	205	180	90	16	45	±2,5	140	M12 x 30

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

UI 2908 ...

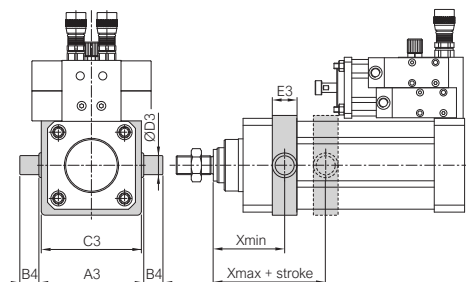
Low foot pedestal (MS1)



Bore mm	Code	A2+	B3 ±0,2	C2	E2 JS14	Ø G1 H14	M	N JS16	Q1+	Q2	V1 ±0,5	Fixing screw ISO 4762			
50	UI 2908 050	175	±1,6	32	47	45	9	65	45	170	±1,6	5	±0,35	5	M8 x 20
63	UI 2908 063	190		32	45	50	9	75	50	185		5		5	M8 x 20
80	UI 2908 080	215		41	55	63	12	95	63	210	±2	5	±0,4	6	M10 x 25
100	UI 2908 100	230		41	57	75	14	115	71	220		10		6	M10 x 25
125	UI 2908 125	270	±2	45	70	90	16	140	90	250	±2,5	20	±0,5	8	M12 x 35

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

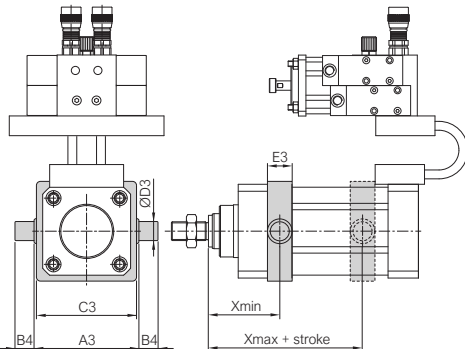
MOUNTING ACCESSORIES

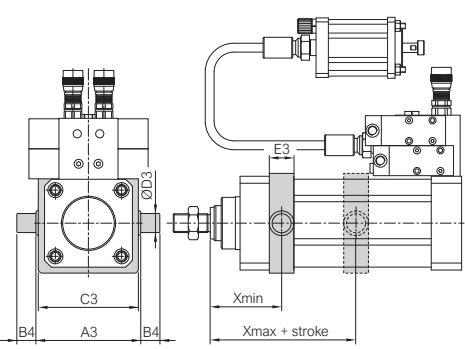
UI 2909 ... TQ (series UI) Adjustable intermediate hinge (MT4)		Bore mm	Code	A3 h14	B4 h14	C3	Ø D3 e9	E3	Xmin
		50	UI 2909 050 TQ	75	16	71	16	20	81
		63	UI 2909 063 TQ	90	20	84	20	26	89
		80	UI 2909 080 TQ	110	20	105	20	26	99
		100	UI 2909 100 TQ	132	25	129	25	32	108,5
		125	UI 2909 125 TQ	160	25	154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

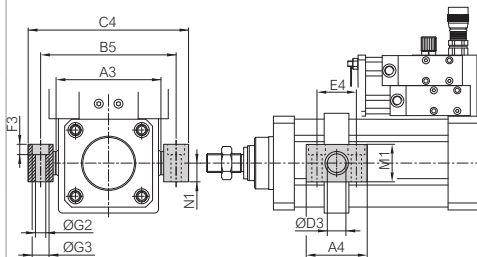
If the obtained value of "Xmax" is less than the corresponding value of "Xmin": the adjustable intermediate hinge can not be mounted.

UI 2909 ... TQ (series UT) Adjustable intermediate hinge (MT4)		Bore mm	Code	A3 h14	B4 h14	C3	Ø D3 e9	E3	Xmin	Xmax +
		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 mm	Code	A3 h14	B4 h14	C3	Ø D3 e9	E3	Xmin	Xmax +
		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										

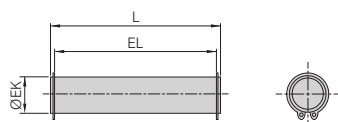
MOUNTING ACCESSORIES

UI 2910 ... Support for intermediate hinge (AT4)		Bore mm	Code	A3 h14	A4	B5	C4	Ø D3 F7	E4 ±0,2	F3 ±0,5	Ø G2 H13	Ø G3 H13	M1	N1 ±0,1
		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



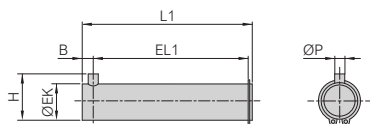
UI 2910 ... White zinc plated steel / 1 piece each package + 8 set head screws for fixing to cylinder

UI SEC ...	Bore	Code	Ø EK	EL	L
Pin for female hinge MP2 (AA4)	mm		e8	+0,3 0	
	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

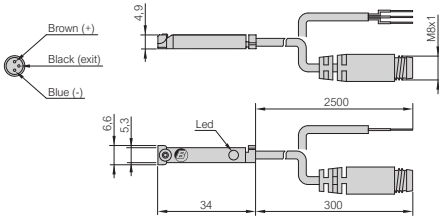
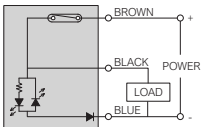
UI SECH ... Pin for female hinge MP6 (AA6)	Bore mm	Code	B	Ø EK f7	EL1 +0,5 +0,3	H 0 -0,5	L1	Ø P h12
50	UI SECH 050	6	0 -1	16	43	20	54	4
63	UI SECH 063	6		16	49	20	60	4
80	UI SECH 080	6		20	63	24	75	4
100	UI SECH 100	6		20	73	24	85	4
125	UI SECH 125	9	0 -2	30	94	36	110	6

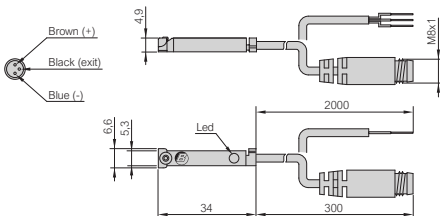
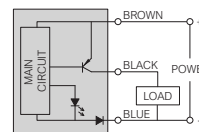


UI SECH ... White zinc plated steel / 1 piece each package + 1 retaining ring DIN 471

END OF STROKE SENSORS TYPE SR

SRC-61, SRC-21, SRC-27 End of stroke sensor REED - 2 poles N.O.		Technical features			
4.9 Brown (+) Blue (-) 6.6 5.3 Led 2500 34 300 M8x1	Code	SRC-61	SRC-21	SRC-27	
	Version	Cable 2 x 0,14 mm²	Cable 2 x 0,14 mm²	Connector M8 x 1 - 2 pin	
	Sensor	REED			
	Output	Pure contact, normally open			
	Operating voltage	5 ÷ 230 Vac / Vdc	5 ÷ 130 Vac / Vdc	5 ÷ 50 Vac / Vdc	
	Switching current (max.)	200 mA	200 mA	200 mA	
	Contact rating (max.)	10 W	6 W	6 W	
	Voltage drop (max.)	3 V	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					

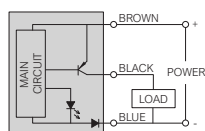
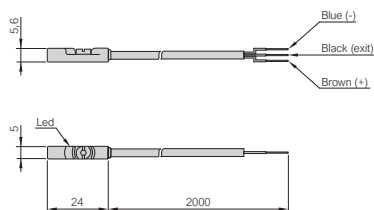
SRD-21, SRD-27 End of stroke sensor REED - 3 poles N.O.		Technical features	
	Code	SRD-21	SRD-27
	Version	Cable 3 x 0,14 mm²	Connector M8 x 1 - 3 pin
	Sensor	REED	
	Output	PNP, normally open	
	Operating voltage	5 ÷ 30 Vac / Vdc	
	Switching current (max.)	200 mA	
	Contact rating (max.)	6 W	
	Voltage drop (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 End of stroke sensor HALL PNP - 3 poles N.O.		Technical features	
	Code	SRN-21	SRN-27
	Version	Cable 3 x 0,14 mm²	Connector M8 x 1 - 3 pin
	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

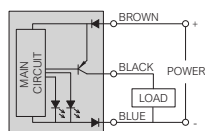
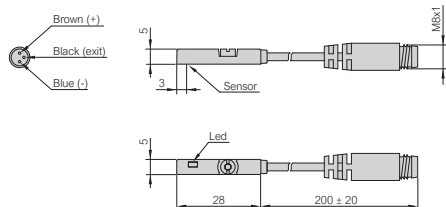
Code	SK9-21
Version	Cable 3 x 0,14 mm ²
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 30 Vdc
Switching current (max.)	200 mA
Contact rating (max.)	6 W
Current consumption	10 mA (without load)
Voltage drop (max.)	2,2 V
Visual indicator	LED yellow diode: flashing (instable position) permanently light (stable position)
Operating frequency	1000 Hz
Temperature range	-30 ÷ +80 °C
Enclosure classification (DIN 40050)	IP69K
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Screw for "T" groove - Torque max. 0,3 Nm

SK9-21 / Sensor in PA12, cable in PUR - 1 piece each package

END OF STROKE SENSORS TYPE SKC with precise positioning sistem

SKC-27

End of stroke sensor HALL PNP - 3 poles N.O.



Technical features

Code	SKC-27
Version	Connector M8 x 1 - 3 pin
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 28 Vdc
Switching current (max.)	80 mA
Contact rating (max.)	2 W
Current consumption	10 mA (24 Vdc)
Voltage drop (max.)	1,5 V
Leakage current (max.)	0,05 mA
Visual indicator	Two colors LED diode: red (instable position) green (stable position)
Operating frequency	1000 Hz
Temperature range	-10 ÷ +60 °C
Enclosure classification (IEC 60529)	IP67
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Screw for "T" groove - Torque max. 0,3 Nm

SKC-27 / Sensor in PA, cable in PUR - 1 piece each package



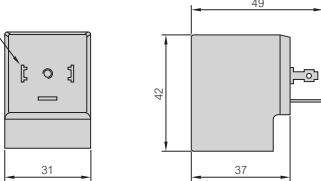
THREADED CONNECTORS TYPE Y082LC

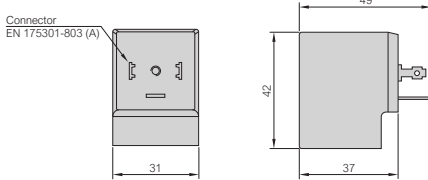
Y082LC ...		Technical features	
Threaded connectors - 2 poles			
	Code	Y082LC250C	Y082LC500C
	Threaded connectors	M8 x 1	
	Cable	2 x 0,14 mm²	
	Cable length	2500 mm	5000 mm
	Operating voltage (max.)	50 Vac / 60 Vdc	
	Corrente (max.)	3000 mA	
	Temperature range	-25 ÷ +75 °C	
	Enclosure classification (IEC 60529)	IP67	
	Y082LC ... / Connector in PVC, contacts in gilded brass, cable in PVC - 1 piece each package		

THREADED CONNECTORS TYPE Y083LC

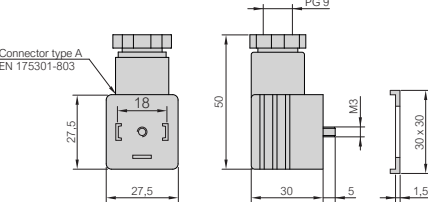
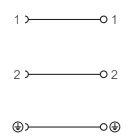
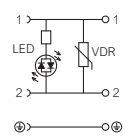
Y083LC ...		Technical features	
Threaded connectors - 3 poles			
	Code	Y083LC250D	Y083LC500D
	Threaded connectors	M8 x 1	
	Cable	3 x 0,14 mm²	
	Cable length	2500 mm	5000 mm
	Operating voltage (max.)	50 Vac / 60 Vdc	
	Corrente (max.)	3000 mA	
	Temperature range	-25 ÷ +75 °C	
	Enclosure classification (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				
Connector EN 175301-803 (A) 	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...		Technical features				
Connectors for coils						
		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			
		Overvoltage 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	CNN2...LED					
						
		Materials	PA6 GF - PA6 GF	PA6 GF - PA12	PA6 GF - PA12	PA6 GF - PA12
		Visual indicator	None	LED yellow diode	LED yellow diode	LED yellow diode
		Color	Black	Trasparent	Trasparent	Trasparent
		Protection circuit	None	VDR circuit	VDR circuit	VDR circuit
		Mounting system	Screw M3x32,5			
		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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