

**PNEUMO-HYDRAULICS UNITS**

**CYLINDERS WITH HYDRAULIC CONTROL  
SERIES US**



US series units s composed by a pneumatic cylinder with an integrated hydraulic circuit for motion checking.

It is available in standard or magnetic version with bores from 50 to 200 mm.

**AVAILABLE REGULATIONS**

Both in thrusting and in pulling,, available functions of adjusted stroke, of SKIP and STOP valves.

**RANGE**

**BORES and STROKES**

BORE mm	STROKES mm													
	100	150	200	250	300	400	500	600	700	800	1000	1200	1400	1500
50	•	•	•	•	•	•	•	•	•	•	•	•	•	•
63	•	•	•	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•	•	•	•	•	•	•	•
160	•	•	•	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•	•	•

**CONSTRUCTIVE OPTIONS**

VERSION STANDARD OR MAGNETIC

**Available versions :**

Regulated in thrust - free return (model RS)

Regulated in pull - free in thrust (model RT)

**TECHNICAL DATA**

**Pressure max:** 7 bar

**Fluid:** filtered air with or without lubrication

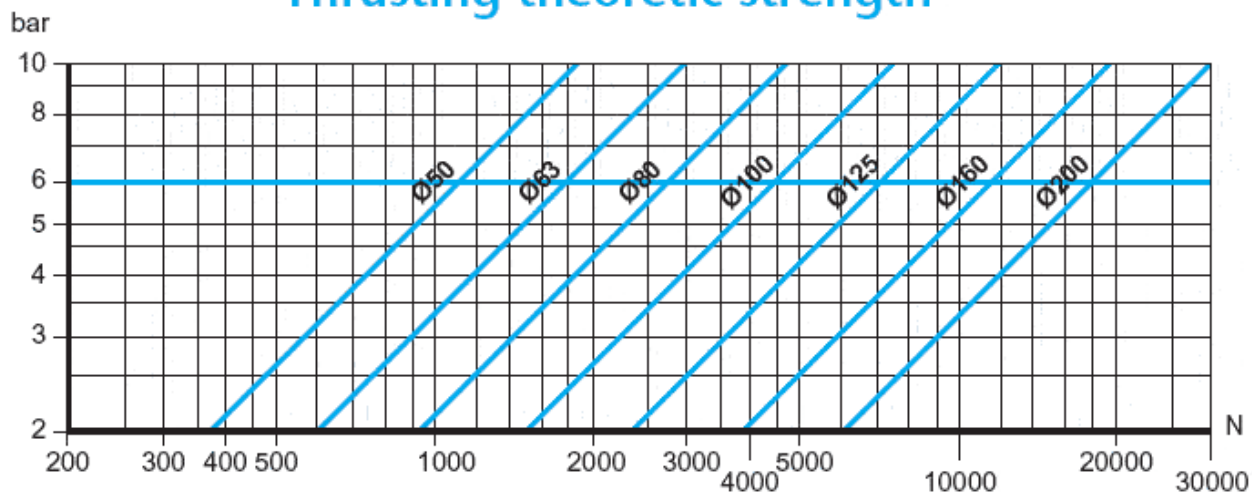
**Temperature range:** -20°C; +70°C

**Speed adjusting range:** 60mm/min to 16m/min

## THRUST FORCES

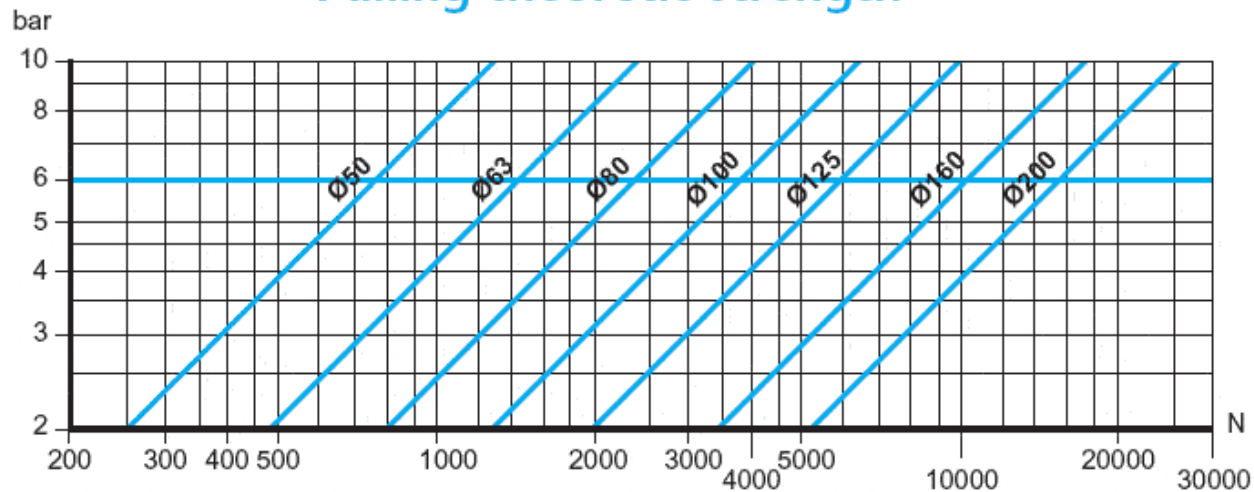
### FORZA TEORICA IN SPINTA

#### Thrusting theoretic strength



### FORZA TEORICA IN TRAZIONE

#### Pulling theoretic strength

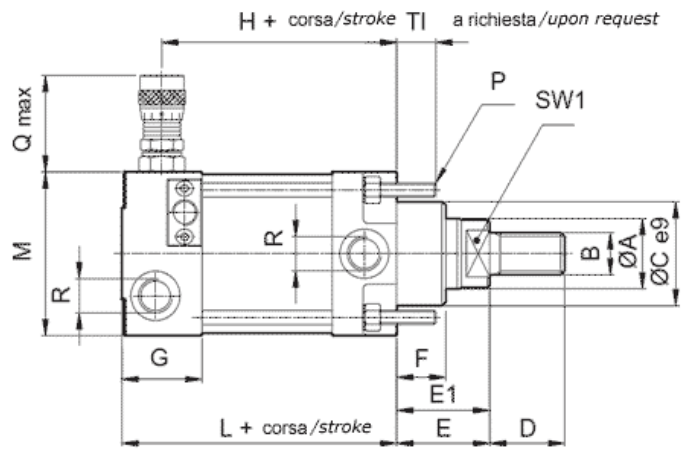
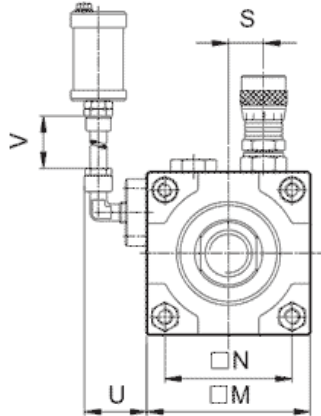


## DIMENSIONS BASIC UNIT

### DIMENSIONS OF SINGLE ADJUSTMENT UNIT



**SINGLE ADJUSTMENT**



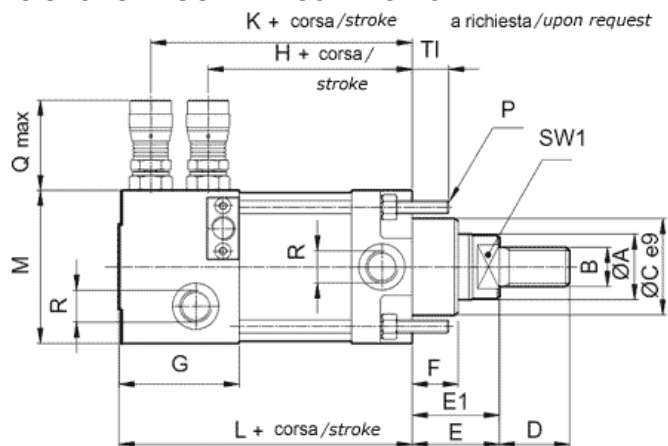
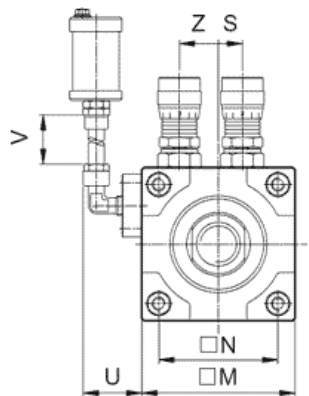
Bore	A	B	C	D	E	E1*	F	G	H	L	M	N	P	Q	R	S	T I	U	V	SW 1
50	30	M16X 1,5	45	3 2	41. 5	61. 5	2 3	3 8	91	107,5±0,5	60	43±0.5	M5	50	G1/ 4	14, 5	2 3	4 0	50 0	24
63	30	M16X 1,5	50	3 2	41. 5	61. 5	2 3	3 8	92	107.5±0,5	80	54.5±0.5	M6	50	G3/ 8	14. 5	2 3	4 0	50 0	24
80	35	M20X 1,5	60	4 0	54. 5	70. 5	3 5	4 3	10 0	118±0,7	90	70±0.5	M8	48. 5	G3/ 8	17. 5	2 8	4 0	50 0	30
100	40	M20X 1,5	60	4 0	54. 5	70. 5	3 0	4 3	10 5	123±1	11 0	83,5±0.5	M1 0	44	G1/ 2	17. 5	2 8	4 0	50 0	30
125	55	M27X 2	85	5 4	58. 5	78. 5	3 8	4 3	10 5	123±1	14 0	102,5±0. 7	M1 0	38. 5	G1/ 2	17. 5	3 4	4 0	50 0	30
160	65	M36X 2	90	7 2	64	89	3 7	5 4	13 0	160±1	17 0	133±0.7	M1 4	40	G3/ 4	22	4 2	5 0	50 0	46
200	80	M36X 2	115	7 2	73	98	4 6	6 1	17 3	207±1,5	21 0	161±0.7	M1 6	34	G3/ 4	22	4 2	5 0	50 0	46

\* with gradual closing (model DS)

### DIMENSIONS FOR DOUBLE REGULATION UNIT



**DOUBLE REGULATION**



Bore	A	B	C	D	E	E1*	F	G	H	K	L	M	N	P	Q	R	S	T I	U	V	Z	SW 1
63	30	M16X1 ,5	50	32	41. 5	61. 5	23	61	83. 5	107.5	130 .5± 0.5	80	54. 5±0. .5	M6	50	G3/ 8	12. 5	23	40	50 0	24 ,5	24
80	35	M20X1 ,5	60	40	54. 5	0.5	32	65	95	120	140 ±0. 5	90	70± 0.5	M8	48. 5	G3/ 8	12. 5	28	40	50 0	24 ,5	30

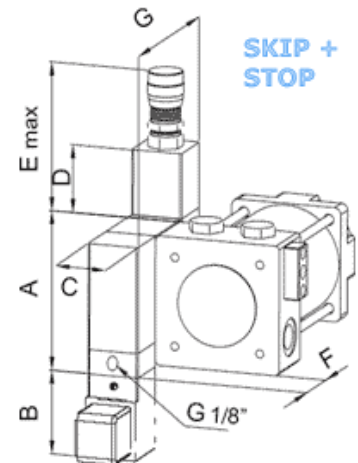
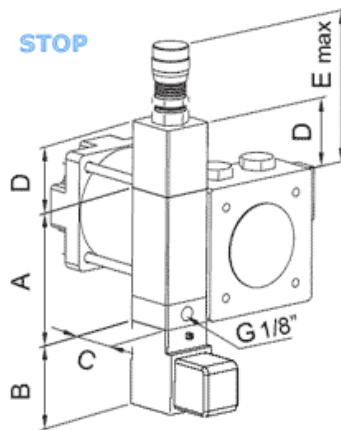


100	40	M20X1,5	60	40	54.5	70.5	30	65	100	125	145 ±1	110	83.5 ±0.5	M10	44	G1/2	12.5	28	40	50	24.5	30
125	55	M27X2	85	54	58.5	78.5	38	65	100	125	145 ±1	140	102.5 ±0.7	M10	35.5	G1/2	12.5	34	40	50	24.5	30
160	65	M36X2	90	72	65	89	37	67	120.5	149.5	168 ±1	170	133 ±0.7	M14	40	G3/4	17	42	50	50	34	46
200	80	M36X2	115	72	73	98	46	68	166	195	214 ±1.5	215	161 ±0.7	M16	34	G3/4	17	42	50	50	34	46

## VALVES DIMENSIONS



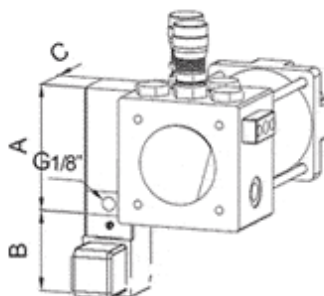
**DIMENSIONS FOR SINGLE REGULATION UNIT**



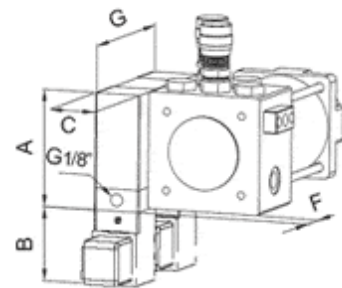
BORE mm	50÷125	160÷200
A	81	65
B	65	65
C	32	50
D	40	65
E	90	165
F	32	50
G	110	160



**DIMENSIONS FOR DOUBLE REGULATION UNIT**

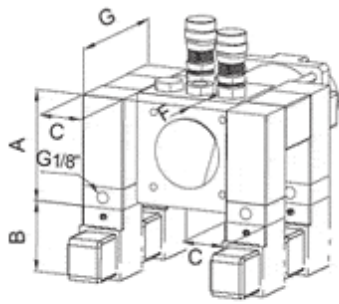


**SKIP**

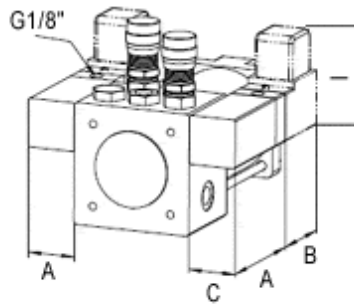


**SKIP + STOP**

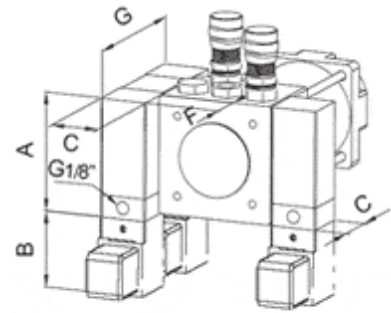




**SKIP + STOP in uscita**  
**SKIP + STOP in rientro**



**STOP in uscita**  
**STOP in rientro**



**SKIP + STOP in uscita**  
**SKIP in rientro**

BORE mm	50÷125	160÷200
A	81	65
B	65	65
C	32	50
D	40	65
E	90	165
F	32	50
G	110	160

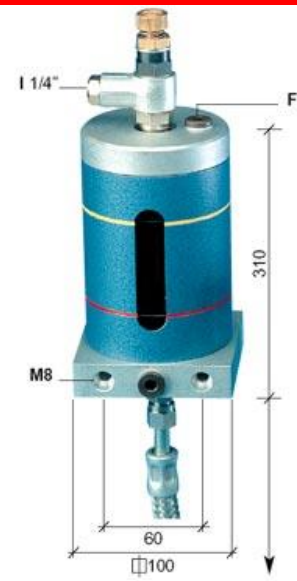
### EXPANSION TANKS



mod. V61 V62



mod. V81 V82



mod. SN16

STROKE	BORE mm													
	100	150	200	250	300	400	500	600	700	800	1000	1200	1400	1600
50	Tank V61						Tank V62	Tank V81	Tank V82					
63	Tank V61						Tank V62	Tank V81	Tank V82					
80	Tank V61						Tank V62	Tank V81	Tank V82				Special tank	
100	Tank V61						Tank V62	Tank V81	Tank V82				Special tank	
125	Tank V81						Tank V82		Tank SN16	Special tank				
160	Tank V81						Tank V82		Tank SN16	Special tank				
200	Tank V81						Tank V82		Tank SN16	Special tank				

