

**PNEUMO-HYDRAULICS UNITS**

**CYLINDERS WITH HYDRAULIC CONTROL  
SERIES UR**



The UR series units basically consist of a pneumatic cylinder with hydraulic decelerators of end of stroke by gradual closing.

The system solves the problem connected with the absorption of the dynamic mass power.

It is an alternative, for effectiveness, to the pneumatic cylinders with special decelerations cones.

**EXPANSION TANK**

Units include the integrated expansion tank.

**RANGE**

**BORES and STROKES**

BORE mm	STROKES mm													
	100	200	300	400	500	600	700	800	1000	1200	1400	1500	2000	
50	●	●	●	●	●	●	●	●	●					
63	●	●	●	●	●	●	●	●	●	●	●	●		
80	●	●	●	●	●	●	●	●	●	●	●	●	●	●
100	●	●	●	●	●	●	●	●	●	●	●	●	●	●
125	●	●	●	●	●	●	●	●	●	●	●	●	●	●
160	●	●	●	●	●	●	●	●	●	●	●	●	●	●
200	●	●	●	●	●	●	●	●	●	●	●	●	●	●

**CONSTRUCTIVE OPTIONS**

VERSION STANDARD OR MAGNETIC

**Available versions :**

Regulated in pull - free in thrust (model RT)

**TECHNICAL DATA**

**Pressure max:** 7 bar

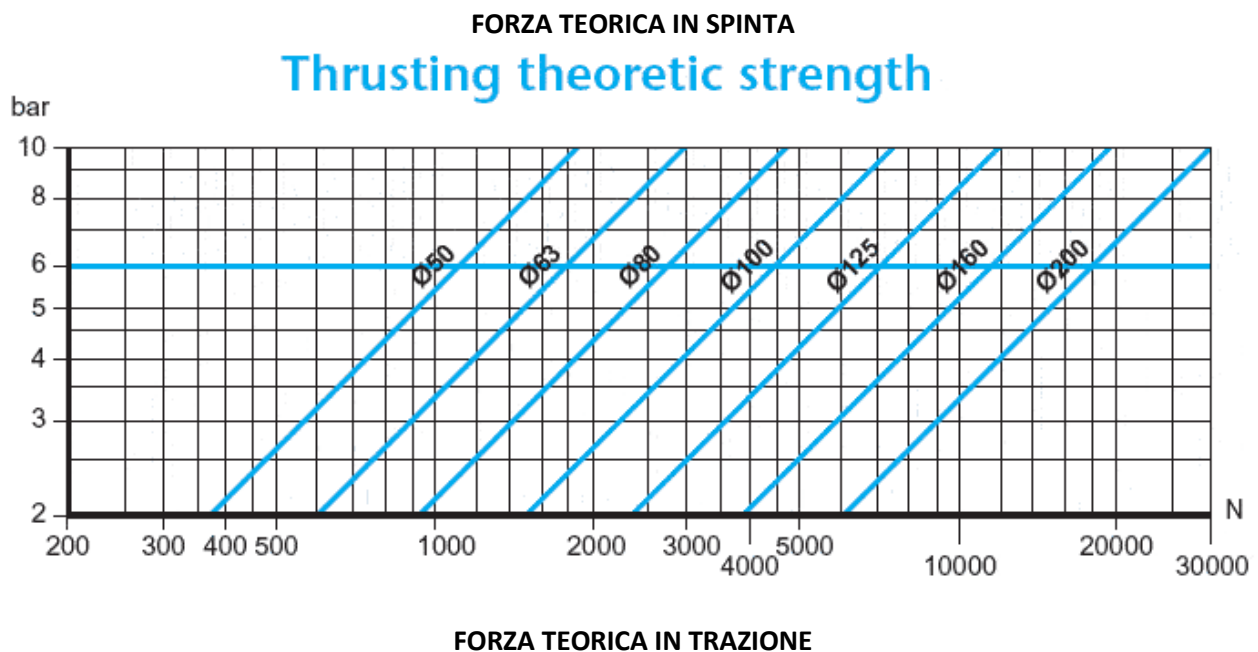
**Fluid:** filtered air with or without lubrication

**Temperature range:** -20°C; +70°C

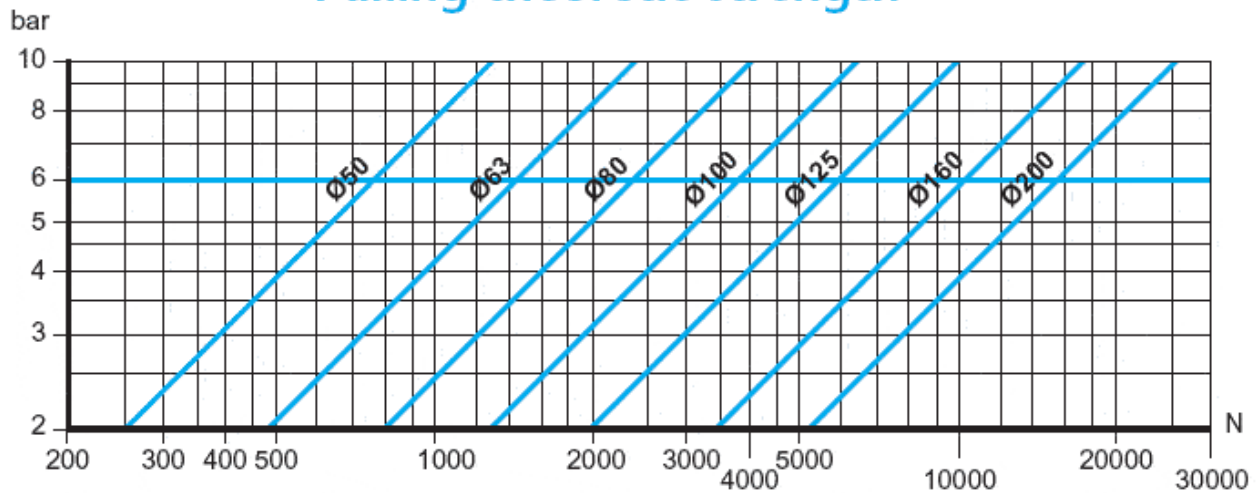
## CONSTRUCTIVE FEATURES

- Gauged and anodized extruded aluminium body.
- Cylinder end cap made by of anodized die-cast aluminium,
- Rear body made of drawn and anodized aluminium.
- Piston rod in vanadium chrome plated steel.
- Tie rod in cadmium plated steel.
- Pneumatic seals in NBR anti-oil nitrile rubber.
- Hydraulic seals in polyurethane.
- Hydraulic circuit oil : supermatic 46 vanguard.

## THRUST FORCES

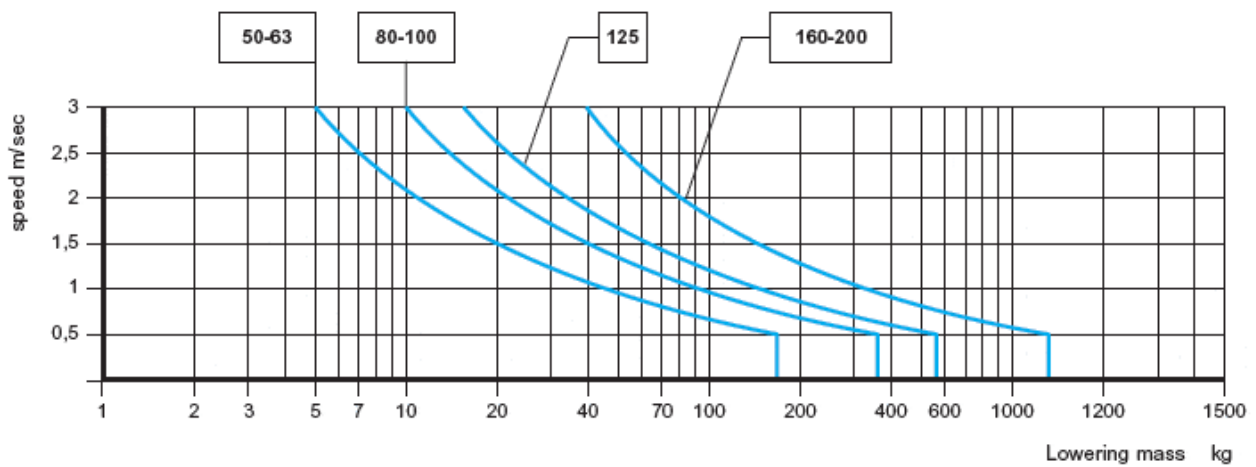


## Pulling theoretic strength



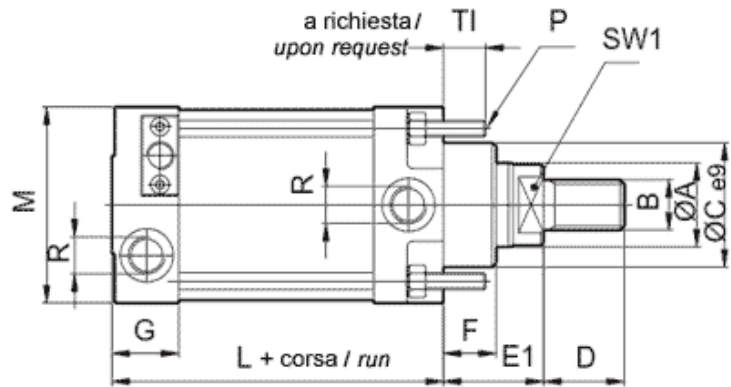
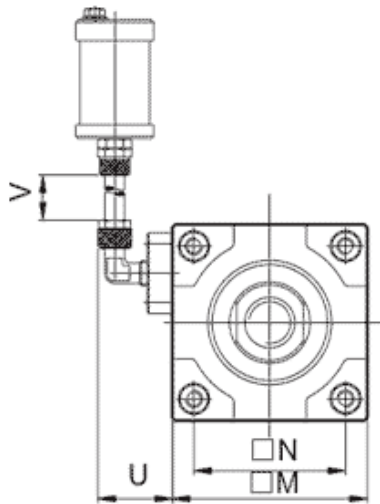
### DIAGRAMMA DEL CARICO MAX. PER VELOCITÀ

### MAX LOAD DIAGRAM BY SPEED



### MAX LOAD DIAGRAM BY SPEED





Bore	A	B	C	D	E1	F	G	L	M	N	P	R	SW1	TI	U	V
50	30	M16x1,5	45	32	61,5	23	38	107,5 ±0,5	60	43±0,5	M5	G1/4	24	23	40	500
63	30	M16x1,5	50	32	61,5	23	38	107,5 ±0,5	80	54,5±0,5	M6	G3/8	24	23	40	500
80	35	M20x1,5	60	40	70,5	35	43	118 ±0,7	90	70±0,5	M8	G3/8	30	28	40	500
100	35	M20x1,5	60	40	70,5	30	43	123 ±1	110	83,5±0,5	M10	G1/2	30	28	40	500
125	55	M27x2	85	54	78,5	33	43	123 ±1	140	102,5±0,7	M10	G1/2	30	34	40	500
160	65	M36x2	90	72	89	37	54	155 ±1	170	133±0,7	M14	G3/4	46	42	50	500
200	80	M36x2	115	72	98	46	61	205 ±1,5	210	161±0,7	M16	G3/4	46	42	50	500

