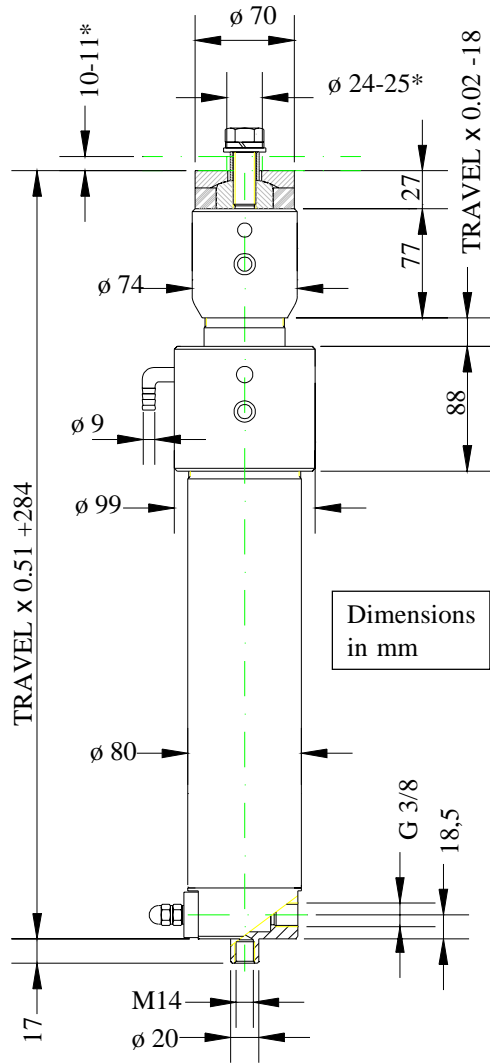


\* Fixing dimensions on frame



Characteristics details:  
 - CHROMED RODS  
 - SAFETY VALVE INCORPORATED IN THE BOTTOM OF CYLINDER

Speed calculation [m/s] connected to Pump flow [litri/min] :  
 $V = \text{Pump flow} / 113.15$

Delivery flow pressure [Mpa] connected to Load on the piston [daN] and Travel [m] :  
 $Ps = ( 6 \times \text{Travel} + \text{Load} + 8 ) / 188.6$

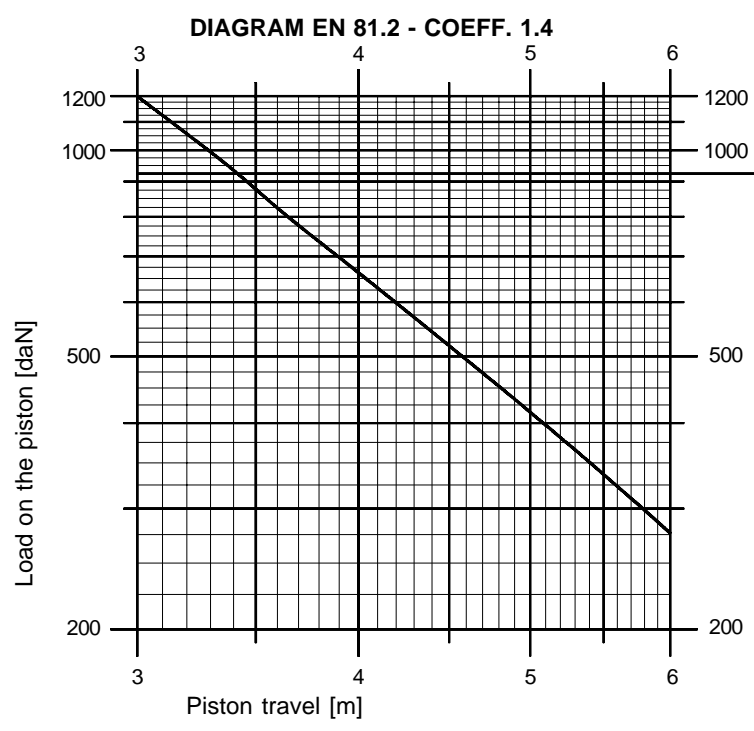
Oil in circulation [litres], with the rod completely out, connected to Piston travel [m] (to compare with the quantity available in the tank)  
 $qc = \text{Travel} \times 1.9$

Oil in the cylinder [litres] connected to Piston travel [m] (to add to the minimum quantity of the oil in the tank) :  
 $Qt = \text{Travel} \times 2.8$

First rod (the smallest) weight [daN] connected to Piston travel [m] :  
 $Ps1 = \text{Travel} \times 4.94 + 2$

Second rod weight [daN] connected to Piston travel [m] :  
 $Ps2 = \text{Travel} \times 3.2 + 5$

Complete piston weight [daN] connected to Piston travel [m] :  
 $Pt = \text{Travel} \times 12.7 + 14$



MAXIMUM PRESSURE: 5.0 Mpa

Materials characteristic:

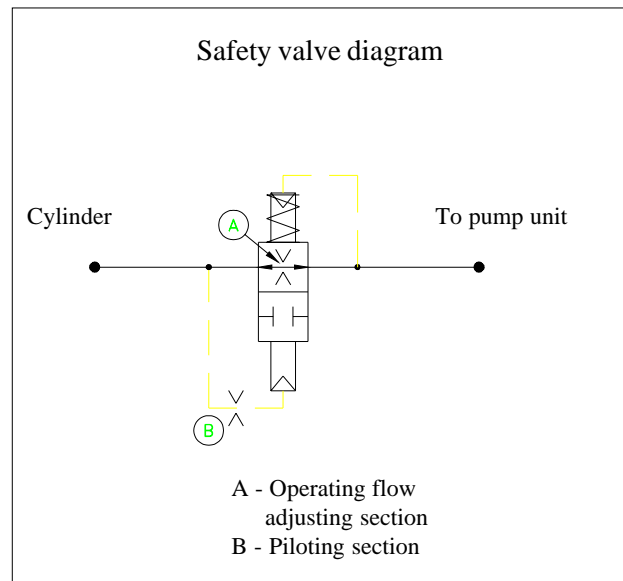
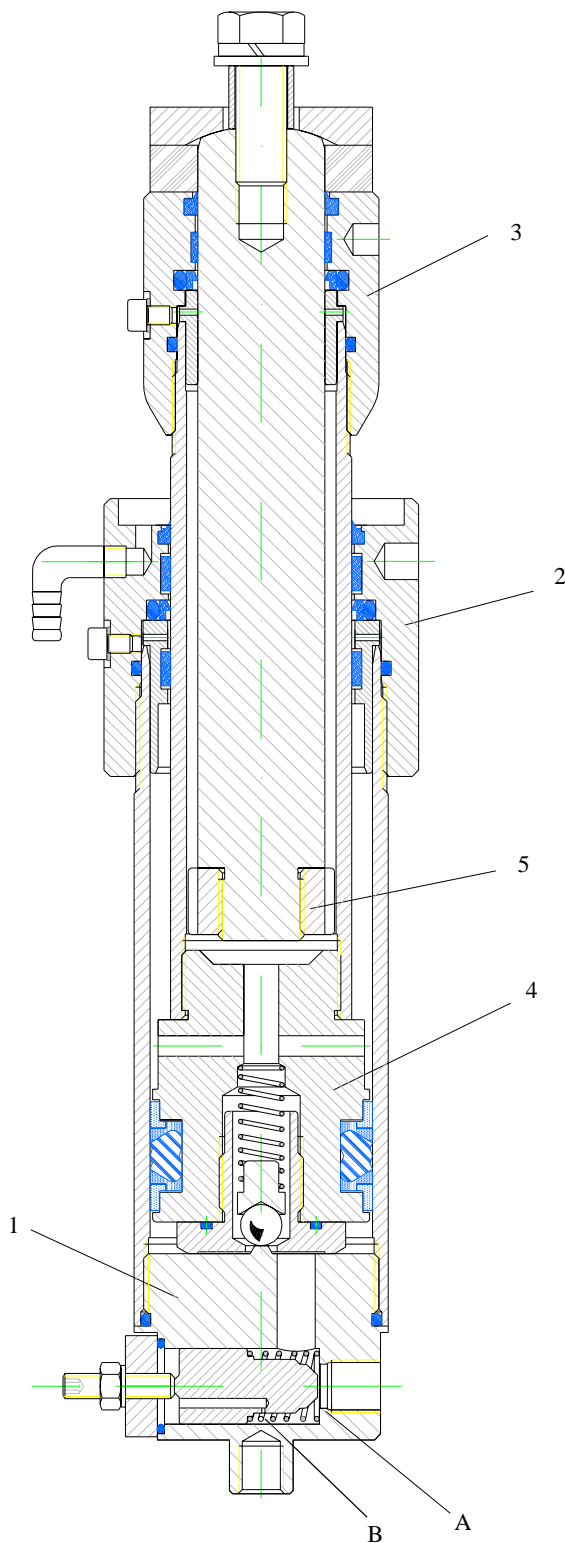
	De [mm]	Di [mm]	Material
First rod	40	/	C43
Second rod	57	47	FE 510
Cylinder	80	70	FE 510

Note: for Travel the total travel of the piston is intended (extratravel enclosed).

- 1 - Cylinder bottom
- 2 - Cylinder head
- 3 - Rod head
- 4 - Rod 2 bottom
- 5 - Rod 1 bottom

- mat FE52B UNI 7070
- mat FE510 UNI 7729
- mat FE52B UNI 7070
- mat FE52B UNI 7070
- mat G25 UNI 5007

- thread M74 x 2.5 len. 19 mm
- thread M79 x 2.5 len. 27 mm
- thread M56 x 2 len. 22 mm
- thread M50 x 2 len. 19 mm
- thread M27 x 12 len. 21 mm



### Valve adjustment instructions

The following tables give instructions to adjust the block valves on the basis of the litres normally used in the pump unit.

Once acquainted with the value of the adjusting turns, turn anticlockwise the valve cap, loosen the lock nut and turn clockwise the adjusting screw to the closing valve limit. Then turn it anticlockwise to reach the adjusting value previously calculated.

Tighten the lock nut and turn the cap clockwise checking if there are oil leakages.

An intervention test is then recommended, following the instructions of the pump unit manufacturer.

#### OPERATING FLOW WITH OIL VISCOSITY FROM 14 TO 290 cSt

Litres/min Pump Units	Adjusting turns	Litres/min operating
8	2	13
12	2 - 1/4	23
16	2 - 1/2	32
25	2 - 3/4	44
30	3	50
35	3 - 1/4	53

**DIMENSIONS AND CALCULATING DATA  
TELESCOPIC PISTON 50/2  
FOR PLATFORMS**



**Start Elevator Srl**

10 150 / G

rev. 3

2/2