



Piston Type ø S [mm]	A	B	C	D	E	G
60	262	98	80	45	79	90
70	262	105	90	45	89	100

Elements characteristics :

Component	Material
Rod	FE510
Cylinder	FE 510

MAXIMUM PRESSURE: 5.0 Mpa

To see the 08177 page  
for the safety valve

Piston Type Diam /Thickness	Dc [mm]	sd [mm]	Ap [cm <sup>2</sup> ]	Pt0 [kg]	Pt1 [kg/m]	ps0 [kg]	ps1 [kg/m]	Qt [lt/m]	qc [lt/m]	A [mm <sup>2</sup> ]	i [mm]	J [mm <sup>4</sup> ]
60 / 5	80	5	28,27	10	16,1	2,0	6,8	3,8	2,8	864	19,53	329376
70 / 5	90	5	38,48	12	18,5	2,8	8,0	5,0	3,8	1021	23,05	542415
70 / 10	90	5	38,48	13	25,3	3,8	14,8	5,0	3,8	1885	21,51	871791

**Dc**= External diameter of the Cylinder

**sd**= Cylinder thickness

**Ap**= Rod thrust section

**Pt0**= Weight of the basic of the complete piston

**Pt1**= Weight for every mt of the complete piston

**ps0**= Weight of the basic of the ram only

**ps1**= Weight for every mt of the ram only

**Qt**= Oil in the cylindel for every mt of travel with the ram completely out ( must add at the minimum quantity of the oil in the tank)

**qc**= Oil in circulation for every mt of the piston travel (must compare with the quantity available in the tank)

**A**= Resistent section of the ram

**i**= Ray of the inertia of the ram

**J**= Moment of inertia of the ram

**DIMENSIONS AND  
CALCULATION DATA  
OF PISTON 60 - 70 HOME TYPE**



**Start Elevator**

09 222 / G

rev. 3

1/1