

PNEUMATIC CYLINDER



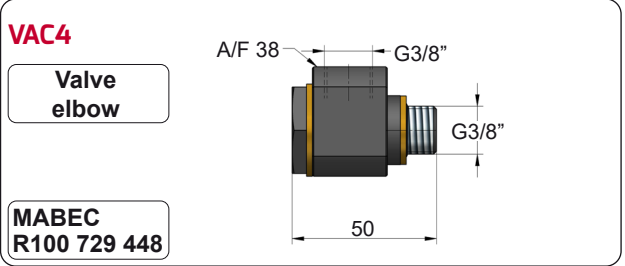
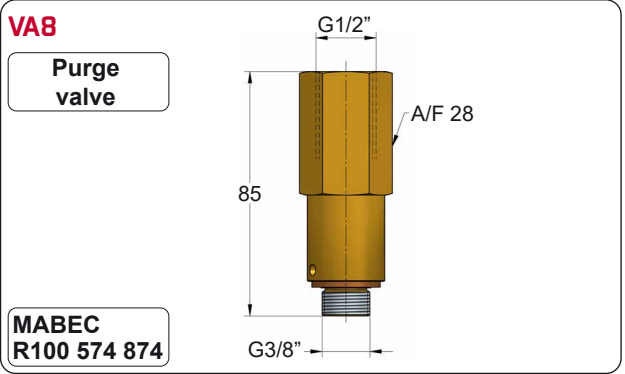
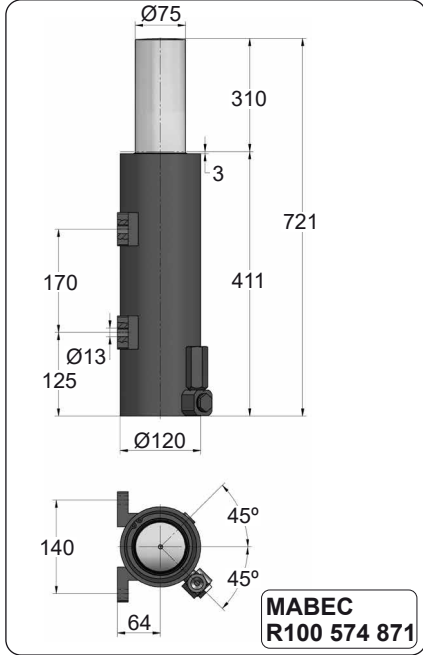
AZR

- Pneumatic Cylinder
- Large stroke available
- High frequency use
- Suited for shear metal cutting applications
- Meets Renault Standard EM24.54.700

AZR 102 121 310 T1

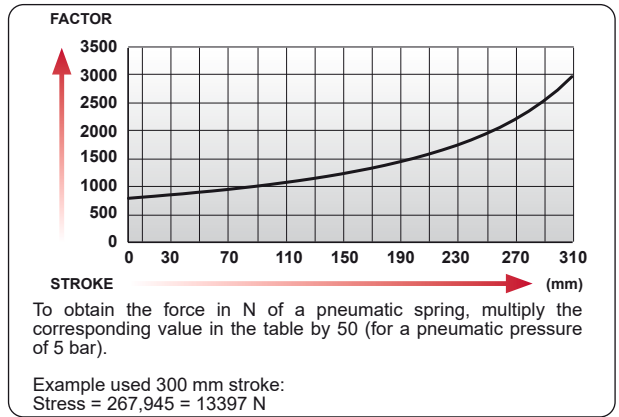
Pneumatic cylinder

		RENAULT EM24.54.700

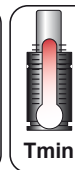
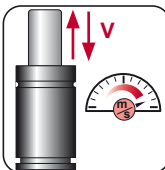


STROKE (mm)	FACTOR
0	785.4
10	804.35
20	824.24
30	845.14
40	867.13
50	890.29
60	914.72
70	940.53
80	967.84
90	996.78
100	1027.51
110	1060.19
120	1095.02
130	1132.21
140	1172.02
150	1214.73

STROKE (mm)	FACTOR
160	1260.68
170	1310.23
180	1363.84
190	1422.03
200	1485.4
210	1554.68
220	1630.74
230	1714.62
240	1807.61
250	1911.26
260	2027.51
270	2158.83
280	2308.33
290	2480.08
300	2679.45
310	2913.66



Recommended using area

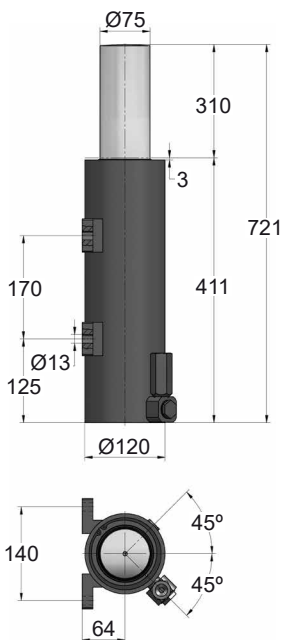


HOW TO ORDER

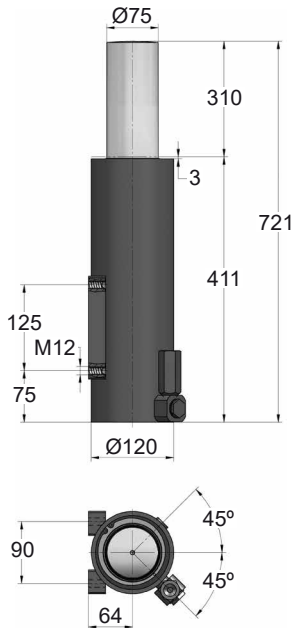
AIR	Vmax 1,5 m/s	bar psi	bar psi	°C	°F	°C	°F
		2 29	8.5 123	0	32	80	176

AZR 102 121 310 T1

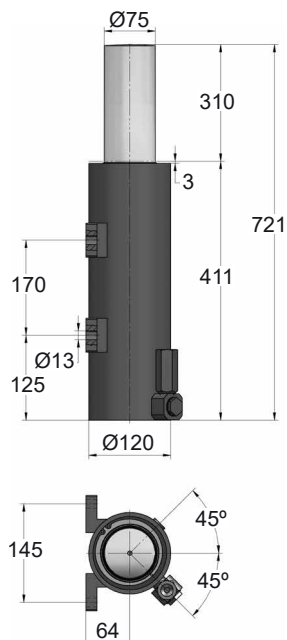
AZR 102 121 310 T1



AZR 102 121 310 T2

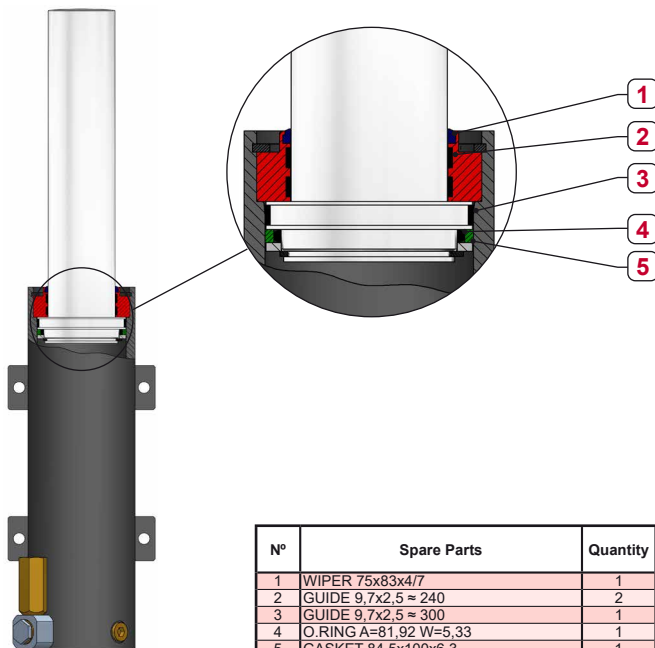


AZR 102 121 310 T3



KIT AZR 102

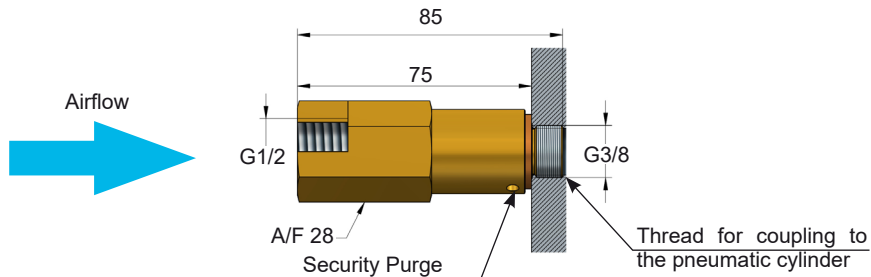
Maintenance Kit
KIT-XXXXXXX



MABEC
R100 574 873

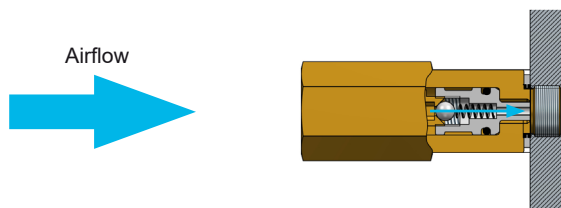
N°	Spare Parts	Quantity
1	WIPER 75x83x4/7	1
2	GUIDE 9,7x2,5 ≈ 240	2
3	GUIDE 9,7x2,5 ≈ 300	1
4	O. RING A=81,92 W=5,33	1
5	GASKET 84,5x100x6,3	1

OPERATION

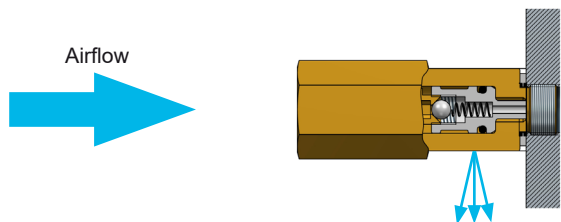


Airflow: Max. pneumatic pressure 8,5 bar

Safety purge: when the pressure factor inside the pneumatic cylinder is higher than 6.9 the air excess is evacuated through the safety purge.



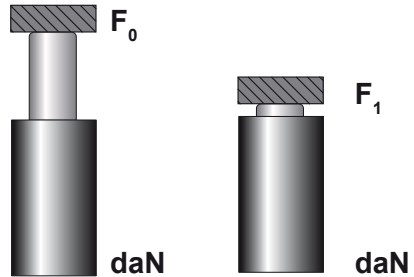
If the air pressure inside the cylinder is lower than the air pressure of the pneumatic supply, the valve opens and fills the cylinder with the pressure from the pneumatic supply.



In case of overpressure inside the cylinder, the pressure would push the rod back and the air excess would be purged.

Similarly, in the event of a power failure of the pneumatic supply, the pressure inside the cylinder would push the piston rod back and the cylinder would empty.

INCIDENCE



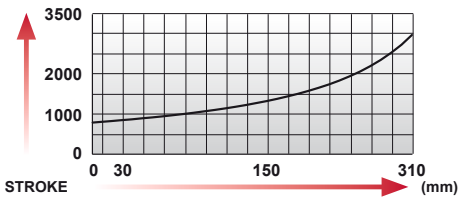
INCIDENCE:

The piston rod does not rise in a linear movement, but in a shocking manner.

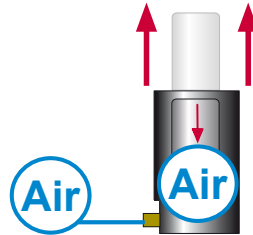
REASON:

Not enough strength.

FACTOR



To obtain the force in N of a pneumatic spring, multiply the corresponding value in the table by 50 (for a pneumatic pressure of 5 bar).
Example used 300 mm stroke: Stress = 267,945 = 13397 N

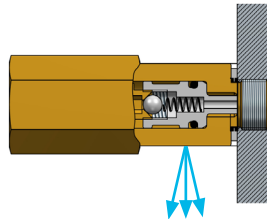
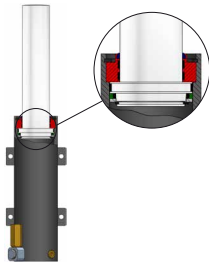


SOLUTION: CHECK LIST 1

The spring force is insufficient. Recalculate the effort required.

SOLUTION: CHECK LIST 2

Insufficient pressure (mains air)
Pressure control (mains air)



SOLUTION: CHECK LIST 3

Insufficient pressure (in the cylinder). Examine the spring, potential leakage from the joints.

SOLUTION: CHECK LIST 4

Damaged valve (quick purge), allows air leakage. Change of the valve (quick purge).



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