KÖHR
Handels-GmbH

Airpel® Comparison Chart

Model	Airpel - M9	Airpel - M16	Airpel - M24	Airpel - M32
Piston diameter	9.3 mm	15.9 mm	24.0 mm	32.5 mm
Piston area	67.7 mm^2	198 mm^2	452.5 mm^2	830 mm^2
Max. pressure	700 kPa (7 bar)	700 kPa (7 bar)	700 kPa (7 bar)	700 kPa (7 bar)
Suitable for vacuum actuation	yes	yes	yes	yes
Force output at max. pressure on rear side	47.4 N	139 N	316.6 N	581 N
Force output at max. pressure on rod side	42.0 N	125 N	294.5 N	526 N
Force factor: Ratio of air pressure (bar) at the system and force (Newton) at the rod: **Factor rear side:** **Factor rod side:**	 6.77 6.0	 19.8 17.8	 45.25 42.08	 83.0 75.1
Min. operating pressure	< 1.5 kPa (0.015 bar)	< 1.5 kPa (0.015 bar)	< 1.5 kPa (0.015 bar)	< 3.5 kPa (0.035 bar)
Piston friction as % of load (without side load)	1 – 2 %	1 – 2 %	1 – 2 %	1 – 2 %
Temperature range Standard Code ET	 - 20 bis + 150 °C - 55 bis + 150 °C	 - 20 bis + 150 °C - 55 bis + 150 °C	 - 20 bis + 150 °C - 55 bis + 150 °C	 - 20 bis + 150 °C - 55 bis + 150 °C
Weight in g: (Piston/Rod assy) **Single rod end:** **Double rod end:**	 4.5+0.53xStroke 8.87+0.13xStroke	 16+0.142xStroke 28.48+0.315xStroke	 41.4+0.254xStroke 74.28+0.509xStroke	 82.6+0.56xStroke
Weight of complete unit in g (Complete air cylinder) **Single rod end:** **Double rod end:**	 31.7+0.375xStroke 41.02+0.462xStroke	 64.6+0.622xStroke 80.45+0.854xStroke	 157.18+1.225xStroke 204.9+1.480xStroke	 616+3.66xStroke
Max leak rate (Reference pressure of 340 kPa / 3.4 bar) **Max. leak rate at the piston l/min:** **Max. leak rate at the rod l/min:**	 1.16 2.2	 1.39 2.6	 2.2 2.6	 2.2 2.0

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