

- LIFT FORCE AT $P_o = 4$ bar : $F_v = 3$ kN
- OUTER DIAMETER AT $P_o = 4$ bar : $d = 125 \pm 3$ mm
- BURST PRESSURE : $P_o \leq 20$ bar
- VOLUME AT $H_s = 226$ mm AND $P_o = 4$ bar : $V = 1,5$ dm³
- NOMINAL BUILT-IN POSITION : $H_s = 226$ mm
- TOTAL STROKE: - EXTENSION : 60 mm
- COMPRESSION : -80 mm
- HEIGHT WHEN SUPPLIED : 176 ± 20 mm

- ALL STEEL PARTS ARE ZINC PLATED.
- AIR SPRINGS ARE AIR TIGHT AT 10 bar.
- SALT SPRAY RESISTANCE: 200 hrs ACCORDING DIN 50021-SS.
- AIR SPRING HAS TO WITHSTAND A PRESSURE OF 18 bar DURING 24 hrs (STATIC).
- THE SCREW THREAD OF THE INSERT HAS TO WITHSTAND A MINIMUM TORQUE OF 20 Nm.
- TOLERANCE ON CHARACTERISTIC CURVES: $\pm 10\%$.

- FOR DRAWING SEE 01764029 SHEET 1 OF 2.

Graph showing Spring Force F (kN) versus Displacement s (mm) for a thermopneumatic actuator at 20°C . The curves represent different operating pressures: 2 bar, 3 bar, 4 bar, 5 bar, and 6 bar. The force increases with displacement and pressure.

Displacement s (mm)	2 bar F (kN)	3 bar F (kN)	4 bar F (kN)	5 bar F (kN)	6 bar F (kN)
-50	0.9	1.5	2.1	2.7	3.3
-40	1.0	1.6	2.2	2.8	3.4
-30	1.1	1.7	2.3	2.9	3.5
-20	1.2	1.8	2.4	3.0	3.6
-10	1.3	1.9	2.5	3.1	3.7
0	1.3	2.0	2.8	3.6	4.4
10	1.4	2.1	2.9	3.7	4.5
20	1.5	2.2	3.0	3.8	4.6
30	1.6	2.3	3.2	4.0	4.8
40	1.7	2.5	3.4	4.2	5.0
50	1.9	2.8	3.7	4.6	-

EUROPEAN / FIRST ANGLE PROJECTION!

CHANGES MUST BE DONE WITH CAD ONLY!						TOLERANCE ON DIMENSIONS NOT OTHERWISE SPECIFIED DIMENSIONS ±----- / ANGLES ±-----				
						REL. For COST: 33687	SUPERSEDES: X0206F18	REF. NO/NO. REQ. -----	SCALE: 1/1	
						DR: RR ---	MATERIAL: SEE MATERIAL LIST			DATE: 06JAN04
						DIM.: -----				
						NAME and NO of the PRODUCT/PROJECT: -----			FORMAT: A3	
						NAME: AIR SPRING				
0003	---	DRAWING REVISED	S2098_1	09JUN05	RR	ASS.NAME: .				
0002	---	VIBRACOUSTIC WAS PHOENIX	S2098	07FEB05	RR	MONROE EUROPE				01.764029
0001	---	RELEASED FOR PRODUCTION	15682	13JUL04	RR	SINT-TRUIDEN - BELGIUM				
VERS.	ZONE	CHANGE	CHANGE NO	DATE	DR.			SHEET 2 OF 2		

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