

POWERLOK® – firm fastening against oscillation and vibration

Screw dimension

POWERLOK® screws comply with quality class 10.9. With slight carbonisation, an even higher surface hardness can additionally be achieved. POWERLOK® screws are a fastening and locking device in one. They replace mechanical and chemical screw lock devices.

- ⊕ Smooth, fully-automated assembly can be achieved because there are no malfunctions caused by rolled on fasteners getting hooked up.
- ⊕ The locking effect is not affected by temperature or ageing 9as is often the case with chemical locking methods).
- ⊕ Feeder malfunctions caused by friction on plastic parts in vibrating feeders cannot occur.

Sure and firm fastenings with POWERLOK® screws. They are the right solution for oscillating and vibrating environments!

Nominal diameter	Screw dimension					Nominal lengths
	C		D		C ₁	
	min.	max.	min.	max.	min.	
M3	3.06	3.16	2.96	3.06	2.98	5–25
M3.5	3.57	3.67	3.45	3.55	3.48	6–25
M4	4.08	4.23	3.94	4.09	3.98	8–30
M5	5.11	5.26	4.95	5.10	4.98	8–35
M6	6.15	6.30	5.95	6.10	5.98	10–50
M8	8.20	8.35	7.95	8.10	7.97	12–80

Table 1

Head versions to all DIN shapes, including with TORX® (special head shapes on request)

Comparison of screw-in and unscrew operations POWERLOK[®] — chemical screw locks

ARNOLD-POWERLOK[®]

M5 × 12
Steel 8.8
Screw-in depth 7.5 mm
(1.5 × d)
MA 5.7 Nm

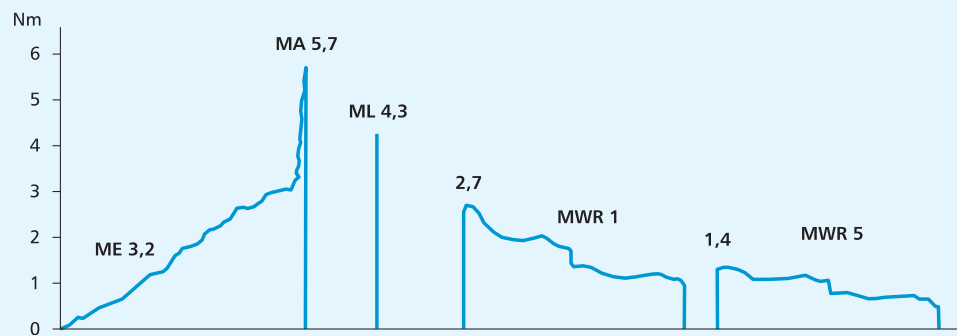


Figure 5

Chemical screw lock

M5 × 12
Steel 8.8
Screw-in depth 7.5 mm
(1.5 × d)
MA 5.7 Nm

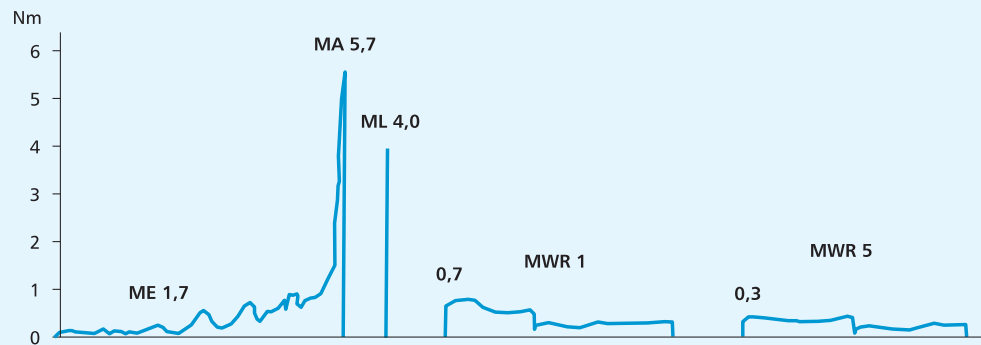


Figure 6