

CLAMPING AND BRAKING TECHNOLOGY

OVERVIEW OF SERIES

CLAMPING AND BRAKING ELEMENTS

PROFILE RAIL GUIDE

MANUAL

Clamping element	Holding force	Theoretical holding force ($\mu=0,1$)	Tightening torque
Series miniHK	40 N - 300 N	50 N - 375 N	0.07 Nm - 2.50 Nm
Series HK	130 N - 2000 N	163 N - 2500 N	3.00 Nm - 22.00 Nm

PNEUMATIC

Clamping element	Holding force	Theoretical holding force ($\mu=0,1$)	Operating pressure
Series MCP	110 N - 550 N	163 N - 688 N	2 bar - 6.5 bar
Series MCPS	80 N - 400 N	100 N - 500 N	4 bar - 6.5 bar
Series MK	350 N - 2250 N	438 N - 2813 N	2 bar - 6.5 bar
Series MKS	145 N - 1450 N	313 N - 1813 N	4 bar - 6.5 bar
Series LKP	550 N - 4500 N	688 N - 5625 N	2 bar - 6.5 bar
Series LKPS	300 N - 1900 N	375 N - 938 N	4 bar - 6.5 bar

Clamping and braking element	Holding force	Theoretical holding force ($\mu=0,1$)	Operating pressure
Series MBPS	750 N - 4700 N	938 N - 5875 N	4.5 bar - 6.5 bar
Series UBPS	750 N - 7700 N	1250 N - 9625 N	4 bar - 6.5 bar
Series LBPS	300 N - 3600 N	375 N - 4500 N	4 bar - 6.5 bar

HYDRAULIC

Clamping element	Holding force	Theoretical holding force ($\mu=0,1$)	Operating pressure
Series KWH	1600 N - 22700 N	2000 N - 28375 N	5 bar - 160 bar

Clamping and braking element	Holding force	Theoretical holding force ($\mu=0,1$)	Operating pressure
Series KBH	1600 N - 46000 N	2750 N - 57500 N	5 bar - 160 bar
Series LBHS	1300 N - 15000 N	1625 N - 18750 N	120 bar - 130.0 bar

ELECTRIC

Clamping element	Holding force	Voltage	Current consumption max.
Series LKE	600 N - 1800 N	24 V	1.0 A - 3.5 A

ROUND BAR

MANUAL

Clamping element	Holding force	Theoretical holding force ($\mu=0,1$)	Tightening torque
Series HKR	1200 N - 2000 N	1500 N - 2500 N	5.00 Nm - 22.00 Nm

PNEUMATIC

Clamping element	Holding force	Theoretical holding force ($\mu=0,1$)	Holding torque
Series MKR	650 N - 1850 N	813 N - 2313 N	4 Nm - 56 Nm
Series MKRS	300 N - 1650 N	375 N - 2063 N	1 Nm - 49 Nm

Clamping and braking element	Holding force	Theoretical holding force ($\mu=0,1$)	Holding torque
Series RBPS	2500 N - 52000 N	4375 N - 65000 N	5 Nm - 780 Nm

ROTATION AXIS

PNEUMATIC

Clamping element	Holding torque	Theoretical holding torque ($\mu=0,1$)	Operating pressure
Series DKPS1000	80 Nm - 1600 Nm	100 N - 2000 N	4 bar - 6.5 bar

HYDRAULIC

Clamping element	Holding torque at 1 arcsec	Holding torque at 5 arcsec	Operating pressure
Series DKHS1000	800 Nm - 6000 Nm	1300 Nm - 8000 Nm	100.0 bar - 110.0 bar

AGGREGATE

	Delivery rate	Signal voltage	On-time
Series AEPN	16 NI/min	24 V DC	15% ED S3 3min



Condition	Weight	Clean room class			
N (bistable) remains in current position	0.005 kg - 0.2 kg			●	●
N (bistable) remains in current position	0.066 kg - 2.6 kg			●	●

Condition	Weight	Clean room class			
NO (Normally Open) open without pressure	0.072 kg - 0.32 kg			●	●
NC (Normally Closed) closed without pressure	0.079 kg - 0.36 kg		●	●	●
NO (Normally Open) open without pressure	0.2 kg - 2.8 kg	6		●	●
NC (Normally Closed) closed without pressure	0.21 kg - 3.2 kg	6	●	●	●
NO (Normally Open) open without pressure	0.14 kg - 2.3 kg			●	●
NC (Normally Closed) closed without pressure	0.18 kg - 1.1 kg		●	●	●

Condition	Weight	Clean room class			
NC (Normally Closed) closed without pressure	0.42 kg - 3.9 kg		●	●	●
NC (Normally Closed) closed without pressure	0.9 kg - 15 kg		●	●	●
NC (Normally Closed) closed without pressure	0.18 kg - 2.4 kg		●	●	●

Condition	Weight	Clean room class			
NO (Normally Open) open without pressure	0.74 kg - 22 kg			●	●

Condition	Weight	Clean room class			
NO (Normally Open) open without pressure	1 kg - 54 kg			●	●
NC (Normally Closed) closed without pressure	0.55 kg - 15 kg		●	●	●

Condition	Weight	Clean room class			
N (bistable) remains in current position	0.64 kg - 1.8 kg		●	●	●

Condition	Weight	Clean room class			
N (bistable) remains in current position	0.23 kg - 3.6 kg		●	●	●

Condition	Weight	Clean room class			
NO (Normally Open) open without pressure	0.28 kg - 2.5 kg			●	●
NC (Normally Closed) closed without pressure	0.3 kg - 2.7 kg		●	●	●

Condition	Weight	Clean room class			
NC (Normally Closed) closed without pressure	0.65 kg - 37 kg		●	●	●

Condition	Weight	Clean room class			
NC (Normally Closed) closed without pressure	1.5 kg - 6.7 kg		●	●	●

Condition	Weight	Clean room class			
NC (Normally Closed) closed without pressure	6 kg - 17 kg		●	●	●

Pressure range 1	Pressure range 2	Weight	Clean room class			
4.5 ... 5.5 bar	5.5 ... 6.5 bar	3.5 kg		●	●	●

