

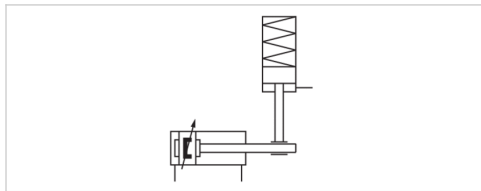
Locking unit, Series LU6

- Ø 1.26-4.92 inch

- Holding and braking: non-adjustable spring, Release: compressed air



Type	Clamping jaw lock
Function	Static holding Dynamic braking
Release pressure	58 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³
Weight	See table below



Technical data

Part No.	Piston Ø	suitable piston rod Ø	Piston rod extension	Compressed air connection	Required flow rate
					Qn
5230996402	1.26 inch	0.47 inch	4.92 inch	G 1/8	0.051 Cv
5231996402	1.57 inch	0.63 inch	4.92 inch	G 1/8	0.071 Cv
5232996402	1.97 inch	0.79 inch	5.71 inch	G 1/8	0.142 Cv
5233996402	2.48 inch	0.79 inch	6.5 inch	G 1/8	0.244 Cv
5234996402	3.15 inch	0.98 inch	7.28 inch	G 1/8	0.457 Cv
5235996402	3.94 inch	0.98 inch	8.66 inch	G 1/8	0.711 Cv
5236996402	4.92 inch	1.26 inch	8.66 inch	G 1/4	1.22 Cv

Part No.	Max. torsional moment of piston rod	B10d value static	B10d value dynamic
5230996402	0.5 Nm	5.000.000	2.000.000
5231996402	1 Nm	5.000.000	2.000.000
5232996402	2 Nm	5.000.000	2.000.000
5233996402	2.5 Nm	5.000.000	2.000.000
5234996402	5 Nm	5.000.000	2.000.000
5235996402	9 Nm	5.000.000	2.000.000
5236996402	15 Nm	5.000.000	2.000.000

Part No.	Buckling protection of the piston rod 1)		Weight	
	Max. cylinder stroke for Euler case 1	Max. cylinder stroke for Euler case 2		
5230996402	29.53 inch	15.75 inch	1.76 lbs	1)
5231996402	43.31 inch	21.65 inch	2.2 lbs	1)
5232996402	53.15 inch	27.56 inch	3.97 lbs	1)

Part No.	Buckling protection of the piston rod 1)		Weight	
	Max. cylinder stroke for Euler case 1	Max. cylinder stroke for Euler case 2		
5233996402	37.4 inch	19.68 inch	6.17 lbs	1)
5234996402	53.15 inch	27.56 inch	12.13 lbs	1)
5235996402	37.4 inch	19.68 inch	20.94 lbs	1)
5236996402	59.06 inch	31.5 inch	30.42 lbs	2)

1) Only applies in dynamic cases, and only retracting, DGUV certified

2) Only applies in dynamic cases, and only retracting

Technical data

Piston Ø	1.26 inch	1.57 inch
Max. holding/braking force FLU6	170.85 lbf	269.76 lbf
Max. moving mass, external mmax	169.75 lbs	268.96 lbs
Max. piston speed vmax	3.28 ft/s	3.28 ft/s
Max. total braking energy (MJ) Etot	3.2 MJ	6 MJ
Max. braking energy per hour PLU6	531.04 in.lbs	995.71 in.lbs
Max. braking energy per braking cycle ELU6	3.54 in.lbs	6.64 in.lbs
Braking energy per braking cycle related to B10d EB10d	1.18 in.lbs	2.21 in.lbs
Brake response time (4 bar) tbrake	0.08 s	0.08 s
Brake response time (6.3 bar) tbrake	0.1 s	0.1 s
Brake response time (10 bar) tbrake	0.12 s	0.12 s

Piston Ø	1.97 inch	2.48 inch
Max. holding/braking force FLU6	427.12 lbf	674.4 lbf
Max. moving mass, external mmax	427.69 lbs	674.6 lbs
Max. piston speed vmax	3.28 ft/s	3.28 ft/s
Max. total braking energy (MJ) Etot	10 MJ	18 MJ
Max. braking energy per hour PLU6	1659.51 in.lbs	2987.12 in.lbs
Max. braking energy per braking cycle ELU6	11.06 in.lbs	19.91 in.lbs
Braking energy per braking cycle related to B10d EB10d	3.69 in.lbs	6.64 in.lbs
Brake response time (4 bar) tbrake	0.08 s	0.08 s
Brake response time (6.3 bar) tbrake	0.1 s	0.1 s
Brake response time (10 bar) tbrake	0.12 s	0.12 s

Piston Ø	3.15 inch	3.94 inch
Max. holding/braking force FLU6	1124 lbf	1798.4 lbf
Max. moving mass, external mmax	1124.34 lbs	1796.74 lbs
Max. piston speed vmax	3.28 ft/s	3.28 ft/s
Max. total braking energy (MJ) Etot	36 MJ	58 MJ
Max. braking energy per hour PLU6	5974.24 in.lbs	9735.81 in.lbs
Max. braking energy per braking cycle ELU6	39.83 in.lbs	64.91 in.lbs
Braking energy per braking cycle related to B10d EB10d	13.28 in.lbs	21.39 in.lbs
Brake response time (4 bar) tbrake	0.08 s	0.09 s
Brake response time (6.3 bar) tbrake	0.1 s	0.11 s
Brake response time (10 bar) tbrake	0.12 s	0.13 s

Piston Ø	4.92 inch
Max. holding/braking force FLU6	2697.6 lbf