

DAMPING TECHNOLOGY

OVERVIEW OF SERIES

INDUSTRIAL SHOCK ABSORBERS POWERSTOP	Maximum energy absorption per stroke in continuous operation	Maximum energy absorption per hour in continuous operation	Maximum energy absorption per stroke in case of emergency stop
M4X0.5			
Mini Energy	0.8 J	2100 J/h	0.8 J
M5X0.5			
Mini Energy	0.8 J	2100 J/h	0.8 J
M6X0.5			
Mini Energy	1.8 J	5000 J/h	1.8 J
M8X1.0			
Standard Energy	1.5 J - 4 J	10000 J/h	1.5 J - 5 J
High Energy	1.5 J - 4 J	10000 J/h	1.5 J - 5 J
Adjustable Energy	1.5 J - 4 J	10000 J/h	1.5 J - 5 J
M10X1			
Standard Energy	3 J - 10 J	22000 J/h	3 J - 13 J
High Energy	3 J - 10 J	22000 J/h	3 J - 13 J
Adjustable Energy	3 J - 10 J	22000 J/h	3 J - 13 J
M12X1			
Standard Energy	9 J - 18 J	33000 J/h	9 J - 25 J
High Energy	9 J - 18 J	33000 J/h	9 J - 25 J
Adjustable Energy	9 J - 18 J	33000 J/h	9 J - 25 J
M14X1			
Standard Energy	20 J - 34 J	50000 J/h	20 J - 42 J
High Energy	20 J - 34 J	50000 J/h	20 J - 42 J
Adjustable Energy	20 J - 34 J	50000 J/h	20 J - 42 J
M14X1.5			
Standard Energy	20 J - 34 J	50000 J/h	20 J - 42 J
High Energy	20 J - 34 J	50000 J/h	20 J - 42 J
Adjustable Energy	20 J - 34 J	50000 J/h	20 J - 42 J
M16X1			
Standard Energy	20 J - 34 J	50000 J/h	20 J - 42 J
High Energy	20 J - 34 J	50000 J/h	20 J - 42 J
Adjustable Energy	20 J - 34 J	50000 J/h	20 J - 42 J
M16X1.5			
Standard Energy	20 J - 34 J	50000 J/h	20 J - 42 J
High Energy	20 J - 34 J	50000 J/h	20 J - 42 J
Adjustable Energy	20 J - 34 J	50000 J/h	20 J - 42 J
M20X1.5			
Standard Energy	41 J - 80 J	90000 J/h	41 J - 230 J
High Energy	41 J - 80 J	90000 J/h	41 J - 230 J
Adjustable Energy	41 J - 80 J	90000 J/h	41 J - 230 J
M22X1.5			
Standard Energy	41 J - 80 J	90000 J/h	41 J - 150 J
High Energy	41 J - 80 J	90000 J/h	41 J - 150 J
Adjustable Energy	41 J - 80 J	90000 J/h	41 J - 150 J
M25X1.5			
Standard Energy	105 J - 230 J	120000 J/h	105 J - 400 J
High Energy	105 J - 230 J	120000 J/h	105 J - 400 J
Adjustable Energy	105 J - 230 J	120000 J/h	105 J - 400 J

Impact velocity min.	Impact velocity max.	Stroke max.	Weight	UL	CE	UKCA	LABS	REACH	RoHS
0.1 m/s - 0.8 m/s	1.2 m/s - 2.2 m/s	4 mm	0.002 kg				●	●	●
0.1 m/s - 0.8 m/s	1.2 m/s - 2.2 m/s	4 mm	0.003 kg				●	●	●
0.1 m/s - 1.8 m/s	1.2 m/s - 3.5 m/s	5 mm	0.005 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	6 mm	0.01 kg - 0.014 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	6 mm	0.01 kg - 0.014 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	6 mm	0.01 kg - 0.014 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	8 mm	0.017 kg - 0.025 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	8 mm	0.017 kg - 0.025 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	8 mm	0.017 kg - 0.025 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	10 mm	0.028 kg - 0.041 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	10 mm	0.028 kg - 0.041 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	10 mm	0.028 kg - 0.041 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.052 kg - 0.079 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.052 kg - 0.079 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.052 kg - 0.079 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.05 kg - 0.075 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.05 kg - 0.075 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.05 kg - 0.075 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.074 kg - 0.11 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.074 kg - 0.11 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.074 kg - 0.11 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.071 kg - 0.1 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.071 kg - 0.1 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	12 mm - 20 mm	0.071 kg - 0.1 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	15 mm - 25 mm	0.11 kg - 0.18 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	15 mm - 25 mm	0.11 kg - 0.18 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	15 mm - 25 mm	0.11 kg - 0.18 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	15 mm - 25 mm	0.15 kg - 0.23 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	15 mm - 25 mm	0.15 kg - 0.23 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	15 mm - 25 mm	0.15 kg - 0.23 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.26 kg - 0.43 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.26 kg - 0.43 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.26 kg - 0.43 kg				●	●	●

DAMPING TECHNOLOGY

OVERVIEW OF SERIES

INDUSTRIAL SHOCK ABSORBERS POWERSTOP	Maximum energy absorption per stroke in continuous operation	Maximum energy absorption per hour in continuous operation	Maximum energy absorption per stroke in case of emergency stop
M27X1.5			
Standard Energy	105 J - 230 J	120000 J/h	105 J - 400 J
High Energy	105 J - 230 J	120000 J/h	105 J - 400 J
Adjustable Energy	105 J - 230 J	120000 J/h	105 J - 400 J
M27X3.0			
Standard Energy	105 J - 230 J	120000 J/h	105 J - 400 J
High Energy	105 J - 230 J	120000 J/h	105 J - 400 J
Adjustable Energy	105 J - 230 J	120000 J/h	105 J - 400 J
M33X1.5			
Standard Energy	185 J - 400 J	140000 J/h	185 J - 800 J
High Energy	185 J - 400 J	140000 J/h	185 J - 800 J
Adjustable Energy	185 J - 400 J	140000 J/h	185 J - 800 J
M36X1.5			
Standard Energy	185 J - 400 J	140000 J/h	185 J - 800 J
High Energy	185 J - 400 J	140000 J/h	185 J - 800 J
Adjustable Energy	185 J - 400 J	140000 J/h	185 J - 800 J
PROFILE DAMPERS BASICSTOP	Maximum energy absorption per stroke in continuous operation	Maximum energy absorption per hour in continuous operation	Maximum energy absorption per stroke in case of emergency stop
Axial Standard	0.3 J - 2014 J	9 J/h - 60420 J/h	0.4 J - 2951 J
Axial Advanced	450 J - 12725 J	13500 J/h - 381750 J/h	630 J - 17810 J
Radial Standard	1.2 J - 290 J	36 J/h - 8700 J/h	1.8 J - 427 J
ACCESSORIES			
Stop sleeve	Thread		
Series PAH	M4X0.5 / M5X0.5 / M6X0.5 / M8X1.0 / M10X1 / M12X1 / M14X1 / M14X1.5 / M16X1 / M16X1.5 / M20X1.5 / M22X1.5 / M25X1.5 / M27X3.0 / M33X1.5 / M36X1.5 / M45X1.5		
Sensor stop sleeve	Thread		
Series PSH	M8X1.0 / M10X1 / M12X1 / M14X1 / M14X1.5 / M20X1.5 / M25X1.5 / M33X1.5 / M45X1.5		
Side load adapters	Thread		
Series PBV	M8X1.0 / M10X1 / M12X1 / M14X1 / M14X1.5 / M16X1 / M16X1.5 / M20X1.5 / M22X1.5 / M25X1.5 / M27X3.0 / M33X1.5 / M36X1.5		
Clamping flange screwed on orthogonally	Thread		
Series PKS	M8X1.0 / M10X1 / M12X1 / M14X1 / M14X1.5 / M16X1 / M16X1.5 / M20X1.5 / M22X1.5 / M25X1.5 / M27X3.0 / M33X1.5 / M36X1.5 / M45X1.5		
Clamping flange screwed parallel	Thread		
Series PKP	M8X1.0 / M10X1 / M12X1 / M14X1 / M14X1.5 / M16X1 / M16X1.5 / M20X1.5 / M22X1.5 / M25X1.5 / M27X3.0 / M33X1.5 / M36X1.5 / M45X1.5		
Locknut	Thread		
Series PVM	M4X0.5 / M5X0.5 / M6X0.5 / M8X1.0 / M10X1 / M12X1 / M14X1 / M14X1.5 / M16X1 / M16X1.5 / M20X1.5 / M22X1.5 / M25X1.5 / M27X1.5 / M27X3.0 / M33X1.5 / M36X1.5 / M42X1.5 / M45X1.5 / M45X2.0 / M64X2.0		
Locknut	Thread		
Series PDD	M4X0.5 / M5X0.5 / M6X0.5 / M8X1.0 / M10X1 / M12X1 / M14X1 / M14X1.5 / M16X1 / M16X1.5 / M20X1.5 / M22X1.5 / M25X1.5 / M27X3.0 / M33X1.5 / M36X1.5		
Screw	Thread		
Series TPC	M2 / M3 / M4 / M5 / M6 / M8 / M12 / M16 / M20		

Impact velocity min.	Impact velocity max.	Stroke max.	Weight	UL	CE	UKCA	LABS	REACH	RoHS
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.34 kg - 0.52 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.34 kg - 0.52 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.34 kg - 0.52 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.29 kg - 0.47 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.29 kg - 0.47 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	25 mm - 40 mm	0.29 kg - 0.47 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	30 mm - 50 mm	0.55 kg - 0.96 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	30 mm - 50 mm	0.55 kg - 0.96 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	30 mm - 50 mm	0.55 kg - 0.96 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	30 mm - 50 mm	0.71 kg - 1.2 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	30 mm - 50 mm	0.71 kg - 1.2 kg				●	●	●
0.1 m/s - 3.0 m/s	1.2 m/s - 5.0 m/s	30 mm - 50 mm	0.71 kg - 1.2 kg				●	●	●
Shore hardness, hard	Shore hardness, medium	Stroke max.	Weight	UL	CE	UKCA	LABS	REACH	RoHS
55D	40D	3 mm - 56 mm	0.001 kg - 0.79 kg				●	●	●
55D	40D	30 mm - 198 mm	0.18 kg - 3.6 kg				●	●	●
55D	40D	15 mm - 60 mm	0.007 kg - 0.3 kg				●	●	●
				UL	CE	UKCA	LABS	REACH	RoHS
			Weight				●	●	●
			0.001 kg - 0.56 kg				●	●	●
Switching function			Weight				●	●	●
Normally closed contact (NC)			0.026 kg - 0.57 kg				●	●	●
Protection		Angle of Impact max.	Weight				●	●	●
Felt ring / Wiper (NBR) / no protection		30 °	0.016 kg - 0.97 kg				●	●	●
			Weight				●	●	●
			0.016 kg - 0.43 kg				●	●	●
			Weight				●	●	●
			0.009 kg - 0.2 kg				●	●	●
			Weight				●	●	●
			0.001 kg - 0.3 kg				●	●	●
			Weight				●	●	●
			0.001 kg - 0.004 kg				●	●	●
Tightening torque	Max. screw-in depth E	Wrench size	Weight				●	●	●
0.3 Nm - 185 Nm	2 mm - 20 mm	1.3 mm - 14 mm	0.001 kg - 0.19 kg				●	●	●