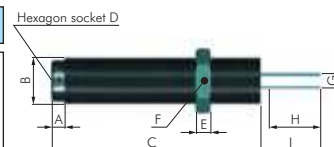


Main dimensions - self-adjusting shock absorbers

Type MC (150-600)

Type	A	B	C	D	E	F	Ø G	H/stroke	I
MC 150 EUM	7.2	M 14 x 1.5	69.1	SW 6	6	SW 17	4.8	12.5	17.5
MC 225 EUM	7.2	M 20 x 1.5	79.2	SW 8	8	SW 23	6.3	12.5	17.5
MC 600 EUM	7.3	M 25 x 1.5	110.3	SW 10	10	SW 30	8.0	25.4	31.6



Shock absorbers (Magnum)

Type MA/MC

Materials: Shock absorber body and accessory: Steel burnished, piston rod: Steel hard chrome-plated, head: Steel hardened and burnished, compression spring: Zinc-plated or plastic-coated

Temperature range: -12°C to max. +70°C (option HT: -20°C to max. +150°C, option LT: -50°C to max. +66°C)

Stroke speed: 0.15 to 5 m/s (upon request, up to 20 m/s)

Fixed limit stop: Integrated

Optional: High temperature seal kit (-20°C to max. +150°C) -HT, low temperature seal kit (-50°C to max. +66°C) -LT



Type	Max. energy consumption Per stroke (W3) Per hour (W4)	Effective mass (me)	Spring force	Thread	Max. axial deviation*
Adjustable					
MA 3325 EUM	170 Nm 75,000 Nm	9 to 1,700 kg	45 to 90 N	M 33 x 1.5	4°
MA 3350 EUM	340 Nm 85,000 Nm	13 to 2,500 kg	45 to 135 N	M 33 x 1.5	3°
MA 4525 EUM	390 Nm 107,000 Nm	40 to 10,000 kg	70 to 100 N	M 45 x 1.5	4°
MA 4550 EUM	780 Nm 112,000 Nm	70 to 14,500 kg	70 to 145 N	M 45 x 1.5	3°
MA 4575 EUM	1,170 Nm 146,000 Nm	70 to 15,000 kg	50 to 180 N	M 45 x 1.5	2°
MA 6450 EUM	2,040 Nm 146,000 Nm	220 to 50,000 kg	90 to 155 N	M 64 x 2.0	4°
MA 64100 EUM	4,080 Nm 192,000 Nm	270 to 52,000 kg	105 to 270 N	M 64 x 2.0	3°
MA 64150 EUM	6,120 Nm 248,000 Nm	330 to 80,000 kg	75 to 365 N	M 64 x 2.0	2°
Self-adjusting					
MC 3325 EUM0	155 Nm 75,000 Nm	3 to 11 kg	45 to 90 N	M 33 x 1.5	4°
MC 3325 EUM1	155 Nm 75,000 Nm	9 to 40 kg	45 to 90 N	M 33 x 1.5	4°
MC 3325 EUM2	155 Nm 75,000 Nm	30 to 120 kg	45 to 90 N	M 33 x 1.5	4°
MC 3325 EUM3	155 Nm 75,000 Nm	100 to 420 kg	45 to 90 N	M 33 x 1.5	4°
MC 3325 EUM4	155 Nm 75,000 Nm	350 to 1,420 kg	45 to 90 N	M 33 x 1.5	4°
MC 3350 EUM0	310 Nm 85,000 Nm	5 to 22 kg	45 to 135 N	M 33 x 1.5	3°
MC 3350 EUM1	310 Nm 85,000 Nm	18 to 70 kg	45 to 135 N	M 33 x 1.5	3°
MC 3350 EUM2	310 Nm 85,000 Nm	60 to 250 kg	45 to 135 N	M 33 x 1.5	3°
MC 3350 EUM3	310 Nm 85,000 Nm	210 to 840 kg	45 to 135 N	M 33 x 1.5	3°
MC 3350 EUM4	310 Nm 85,000 Nm	710 to 2,830 kg	45 to 135 N	M 33 x 1.5	3°
MC 4525 EUM0	340 Nm 107,000 Nm	7 to 27 kg	70 to 100 N	M 45 x 1.5	4°
MC 4525 EUM1	340 Nm 107,000 Nm	20 to 90 kg	70 to 100 N	M 45 x 1.5	4°
MC 4525 EUM2	340 Nm 107,000 Nm	80 to 310 kg	70 to 100 N	M 45 x 1.5	4°
MC 4525 EUM3	340 Nm 107,000 Nm	260 to 1,050 kg	70 to 100 N	M 45 x 1.5	4°
MC 4525 EUM4	340 Nm 107,000 Nm	890 to 3,540 kg	70 to 100 N	M 45 x 1.5	4°
MC 4550 EUM0	680 Nm 112,000 Nm	13 to 54 kg	70 to 145 N	M 45 x 1.5	3°
MC 4550 EUM1	680 Nm 112,000 Nm	45 to 180 kg	70 to 145 N	M 45 x 1.5	3°
MC 4550 EUM2	680 Nm 112,000 Nm	150 to 620 kg	70 to 145 N	M 45 x 1.5	3°
MC 4550 EUM3	680 Nm 112,000 Nm	520 to 2,090 kg	70 to 145 N	M 45 x 1.5	3°
MC 4550 EUM4	680 Nm 112,000 Nm	1,800 to 7,100 kg	70 to 145 N	M 45 x 1.5	3°
MC 4575 EUM0	1,020 Nm 146,000 Nm	20 to 80 kg	50 to 180 N	M 45 x 1.5	2°
MC 4575 EUM1	1,020 Nm 146,000 Nm	70 to 270 kg	50 to 180 N	M 45 x 1.5	2°
MC 4575 EUM2	1,020 Nm 146,000 Nm	230 to 930 kg	50 to 180 N	M 45 x 1.5	2°
MC 4575 EUM3	1,020 Nm 146,000 Nm	790 to 3,140 kg	50 to 180 N	M 45 x 1.5	2°
MC 4575 EUM4	1,020 Nm 146,000 Nm	2,650 to 10,600 kg	50 to 180 N	M 45 x 1.5	2°
MC 6450 EUM0	1,700 Nm 146,000 Nm	35 to 140 kg	90 to 155 N	M 64 x 2	4°
MC 6450 EUM1	1,700 Nm 146,000 Nm	140 to 540 kg	90 to 155 N	M 64 x 2	4°
MC 6450 EUM2	1,700 Nm 146,000 Nm	460 to 1,850 kg	90 to 155 N	M 64 x 2	4°
MC 6450 EUM3	1,700 Nm 146,000 Nm	1,600 to 6,300 kg	90 to 155 N	M 64 x 2	4°
MC 6450 EUM4	1,700 Nm 146,000 Nm	5,300 to 21,200 kg	90 to 155 N	M 64 x 2	4°
MC 64100 EUM0	3,400 Nm 192,000 Nm	70 to 280 kg	105 to 270 N	M 64 x 2	3°
MC 64100 EUM1	3,400 Nm 192,000 Nm	270 to 1,100 kg	105 to 270 N	M 64 x 2	3°
MC 64100 EUM2	3,400 Nm 192,000 Nm	930 to 3,700 kg	105 to 270 N	M 64 x 2	3°
MC 64100 EUM3	3,400 Nm 192,000 Nm	3,150 to 12,600 kg	105 to 270 N	M 64 x 2	3°
MC 64100 EUM4	3,400 Nm 192,000 Nm	10,600 to 42,500 kg	105 to 270 N	M 64 x 2	3°
MC 64150 EUM0	5,100 Nm 248,000 Nm	100 to 460 kg	75 to 365 N	M 64 x 2	2°
MC 64150 EUM1	5,100 Nm 248,000 Nm	410 to 1,640 kg	75 to 365 N	M 64 x 2	2°
MC 64150 EUM2	5,100 Nm 248,000 Nm	1,390 to 5,600 kg	75 to 365 N	M 64 x 2	2°
MC 64150 EUM3	5,100 Nm 248,000 Nm	4,700 to 18,800 kg	75 to 365 N	M 64 x 2	2°
MC 64150 EUM4	5,100 Nm 248,000 Nm	16,000 to 63,700 kg	75 to 365 N	M 64 x 2	2°

* at higher axial deviation use side load adapters (type BV) (see page 505)

Main dimensions - shock absorbers (Magnum)

Type MA/MC

Type	A	B	C	Ø D	Stroke
MA/MC 3325 EUM	M 33 x 1.5	115.0	23.0	25.0	25.0
MA/MC 3350 EUM	M 33 x 1.5	140.5	48.5	25.0	50.0
MA/MC 4525 EUM	M 45 x 1.5	122.0	23.0	35.0	25.0
MA/MC 4550 EUM	M 45 x 1.5	146.5	48.5	35.0	50.0
MA/MC 4575 EUM	M 45 x 1.5	172.0	74.0	35.0	75.0
MA/MC 6450 EUM	M 64 x 2	176.5	48.5	48.0	50.0
MA/MC 64100 EUM	M 64 x 2	226.5	99.5	48.0	100.0
MA/MC 64150 EUM	M 64 x 2	300.0	150.0	48.0	150.0



Exceeding W4: (max. energy absorbed per hour expressed in Nm/h) is possible when switched off temporarily or the shock absorber is cooled with the cylinder exhaust air (take note of the approved heating).