

Door Dampers



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WM-ZD / ZDK / ZE



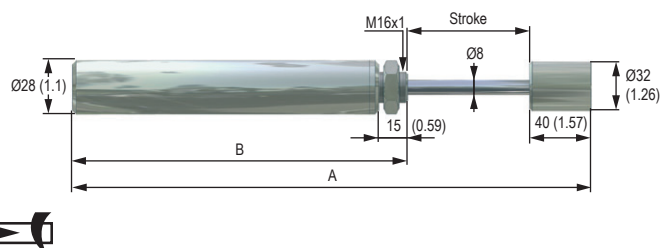
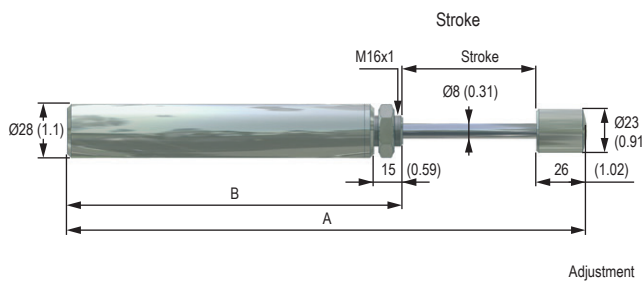
Surface protection Housing zinc plated
Extended life time Special Seals + Oils
 Piston rod: hard-chrome plated

Temperature -20°C - +80°C (-4°F - +176°F)
 RoHS compliant Directive 2002/95/EC



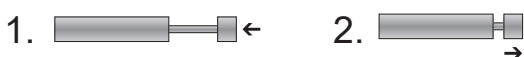
WM-ZE

WM-ZE-M



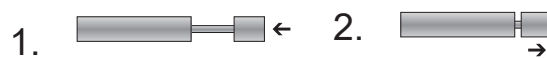
OPERATING PRINCIPLE

WM-ZE



with spring return

WM-ZE-M

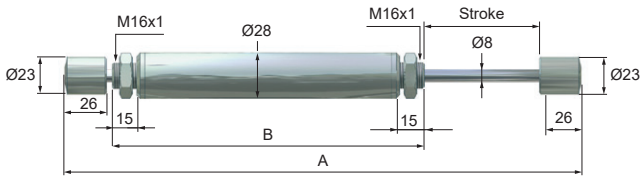


The piston rod is pulled out by a magnet

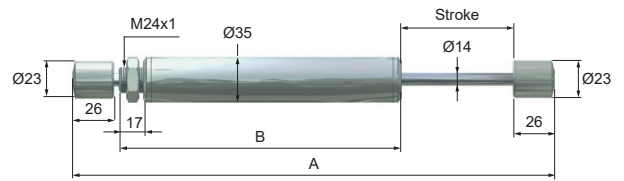
PERFORMANCE

	Stroke mm (inch)	Energy absorption Nm/HB (in lbs/HB)	Return spring force N (lbs)	Impact Speed m/s (ft/s)	A mm (inch)	B mm (inch)	Weight g (lbs)
WM-ZE 2-050	50 (1.97)	150 (1327.62)	35 (7.87)	0,1 - 4 (0,33 - 13,1)	201 (7.91)	125 (4.92)	0,5 (1.1)
WM-ZE 2-070	70 (2.76)	200 (1770.16)	35 (7.87)	0,1 - 4 (0,33 - 13,1)	271 (10.67)	175 (6.89)	0,6 (1.32)
WM-ZE 2-100	100 (3.94)	250 (2212.7)	40 (8.99)	0,1 - 4 (0,33 - 13,1)	351 (13.82)	225 (8.86)	0,7 (1.54)
WM-ZE 2-120	120 (4.72)	300 (2655.24)	40 (8.99)	0,1 - 4 (0,33 - 13,1)	371 (14.61)	225 (8.86)	0,7 (1.54)
WM-ZE-M 2-050	50 (1.97)	150 (1327.62)	35 (7.87)	0,1 - 4 (0,33 - 13,1)	215 (8.46)	125 (4.92)	0,5 (1.1)
WM-ZE-M 2-070	70 (2.76)	200 (1770.16)	35 (7.87)	0,1 - 4 (0,33 - 13,1)	285 (11.22)	175 (6.89)	0,6 (1.32)
WM-ZE-M 2-100	100 (3.94)	250 (2212.7)	40 (8.99)	0,1 - 4 (0,33 - 13,1)	365 (14.37)	225 (8.86)	0,7 (1.54)
WM-ZE-M 2-120	120 (4.72)	300 (2655.24)	40 (8.99)	0,1 - 4 (0,33 - 13,1)	385 (15.16)	225 (8.86)	0,7 (1.54)

WM-ZDK 2



WM-ZDK 3



OPERATING PRINCIPLE



WM-ZDK

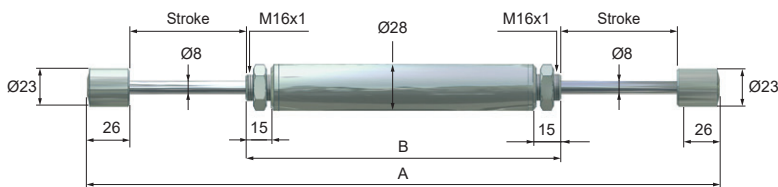


Double-acting without spring return
As one piston rod travels in, the opposite rod travels out

PERFORMANCE

	Stroke	Energy absorption	Return spring force	Impact Speed	A	B	Weight
	mm (inch)	Nm/HB (in lbs/HB)	N (lbs)	m/s (ft/s)	mm (inch)	mm (inch)	g (lbs)
WM-ZDK 2-120	120 (4.72)	250 (2212.7)	0 (0)	0,1 - 4 (0.33 - 13.1)	410 (16.14)	237 (9.33)	0,7 (1.54)
WM-ZDK 3-060	60 (2.36)	1000 (8850.8)	0 (0)	0,1 - 4 (0.33 - 13.1)	260 (10.24)	149 (5.87)	0,85 (1.87)

WM-ZD



OPERATING PRINCIPLE

WM-ZD



Double-acting with spring return
As one piston rod travels in, the opposite rod remains out

PERFORMANCE

	Stroke	Energy absorption	Return spring force	Impact Speed	A	B	Weight
	mm (inch)	Nm/HB (in lbs/HB)	N (lbs)	m/s (ft/s)	mm (inch)	mm (inch)	g (lbs)
WM-ZD 2-050	50 (1.97)	150 (1327.62)	35 (7.87)	0,1 - 4 (0.33 - 13.1)	342 (13.46)	190 (7.48)	0,6 (1.32)
WM-ZD 2-070	70 (2.76)	200 (1770.16)	35 (7.87)	0,1 - 4 (0.33 - 13.1)	382 (15.04)	190 (7.48)	0,7 (1.54)
WM-ZD 2-100	100 (3.94)	250 (2212.7)	40 (8.99)	0,1 - 4 (0.33 - 13.1)	492 (19.37)	240 (9.45)	0,8 (1.76)
WM-ZD 2-120	120 (4.72)	250 (2212.7)	40 (8.99)	0,1 - 4 (0.33 - 13.1)	532 (20.94)	240 (9.45)	0,8 (1.76)