

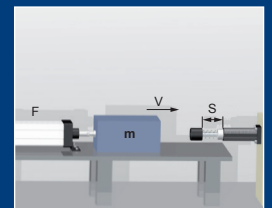
Deceleration cylinder, without free travel

WM-ZL 2

WM-ZL 3



2D / 3D CAD
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Benefits

Without free travel

Mounting:

- Installation position: any
- Recommendation: Vertical with the piston rod down

Surface protection:

- Housing: Zinc Plated

Design:

- Flexibility relating to Stroke, Deceleration Characteristic

Temperature:

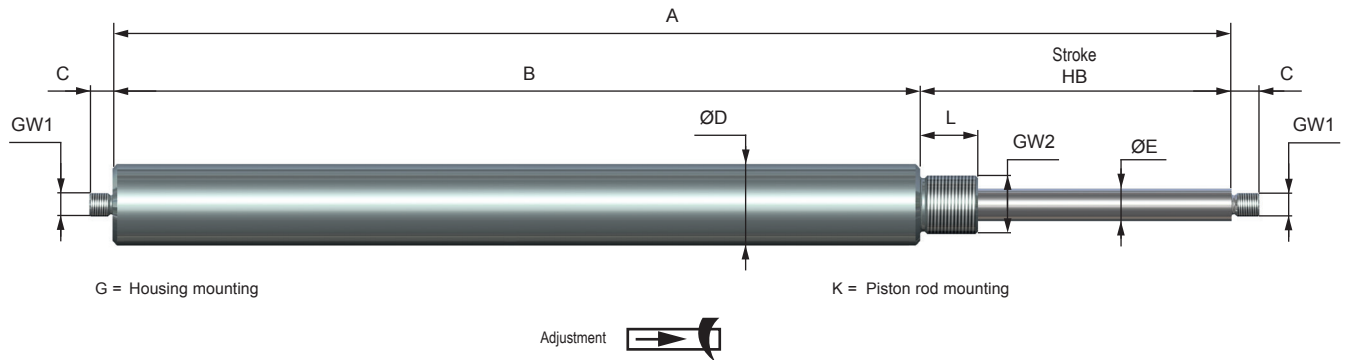
- Standard: -20°C - +80°C
- Lowtemperature: -50°C-...+60°C
- Hightemperature: 0°C-...+120°C

RoHS - conform:

- Directive 2002/95/EC

Extended Life Time:

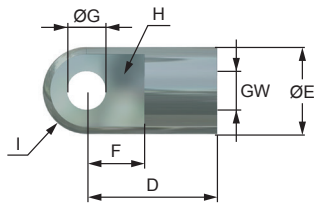
- Special Seals + Oils
- Piston rod hard-chrome plated



PERFORMANCE

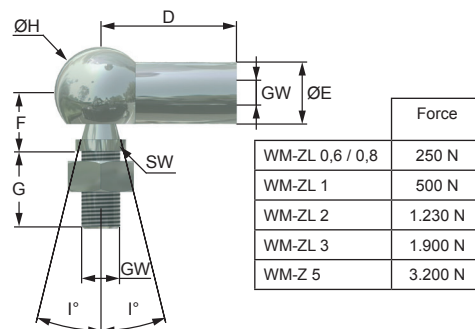
	Stroke	Max.compression force	Max.compression force (Clevis mounting)	A	B	C	ø D	ø E	L	GW1	GW2	Weight
	mm	N	N									
WM-ZL 2-050	50	3100	3100	295	219	10	28	8	16	M8	M20x1,5	0,7
WM-ZL 2-075	75	3100	3100	370	269	10	28	8	16	M8	M20x1,5	0,8
WM-ZL 2-100	100	3100	3100	445	319	10	28	8	16	M8	M20x1,5	0,9
WM-ZL 2-150	150	3100	3100	595	419	10	28	8	16	M8	M20x1,5	1,2
WM-ZL 2-200	200	3100	3100	745	519	10	28	8	16	M8	M20x1,5	1,5
WM-ZL 2-250	250	3100	3100	895	619	10	28	8	16	M8	M20x1,5	1,7
WM-ZL 2-300	300	2800	3100	1035	719	10	28	8	16	M8	M20x1,5	1,9
WM-ZL 2-350	350	2300	3100	1195	819	10	28	8	16	M8	M20x1,5	2,2
WM-ZL 2-400	400	1800	3100	1345	919	10	28	8	16	M8	M20x1,5	2,5
WM-ZL 3-100	100	10000	10000	485	350	10	35	14	25	M10	M25x1,5	2,3
WM-ZL 3-150	150	10000	10000	635	450	10	35	14	25	M10	M25x1,5	2,6
WM-ZL 3-200	200	10000	10000	785	550	10	35	14	25	M10	M25x1,5	3,0
WM-ZL 3-300	300	10000	10000	1085	750	10	35	14	25	M10	M25x1,5	3,6
WM-ZL 3-400	400	10000	10000	1385	950	10	35	14	25	M10	M25x1,5	4,2
WM-ZL 3-500	500	8500	10000	1685	1150	10	35	14	25	M10	M25x1,5	5,0
WM-ZL 3-600	600	7200	9000	1985	1350	10	35	14	25	M10	M25x1,5	5,9
WM-ZL 3-700	700	5000	7000	2285	1550	10	35	14	25	M10	M25x1,5	6,8
WM-ZL 3-800	800	4000	5500	2585	1750	10	35	14	25	M10	M25x1,5	7,4

1 Male rod clevis



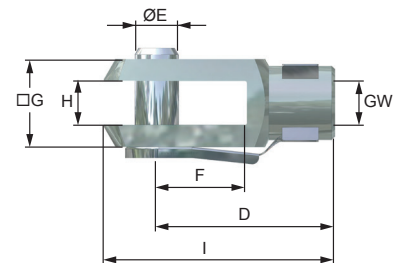
GW*	D	ØE	F	G	H	I
	mm	mm	mm	mm	mm	mm
M 8	19	14	12	8,1	10	7
M 10	27	18	12	8,1	10	9

2 Angle joint (DIN 71802)



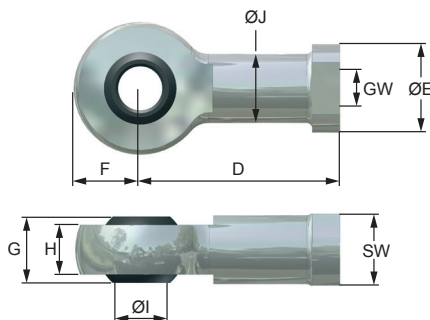
GW*	D	ØE	F	G	H	I	J	SW
	mm	mm	mm	mm	mm	mm	mm	mm
M 8	30	13	13	16	20	-	-	11
M 10	35	16	16	19	24	-	-	13

3 Female rod clevis (DIN 71752)



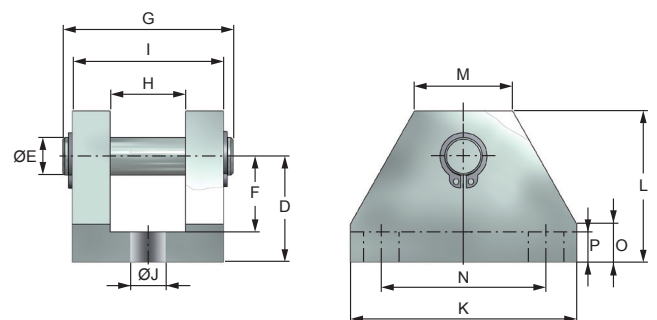
GW*	D	ØE	F	G	H	I
	mm	mm	mm	mm	mm	mm
M 8	32	8	16	16	8	42
M 10	40	10	20	20	10	52

4 Spherical end bearing (DIN 648, Series K, Series E on enquiry)



GW*	D	ØE	F	G	H	I	J	SW
	mm	mm	mm	mm	mm	mm	mm	mm
M 8	36	16	12	12	9	8	12,5	13
M 10	43	19	14	14	10,5	10	15	17

5 Clevis flange (only use in combination with spherical end bearing (4))

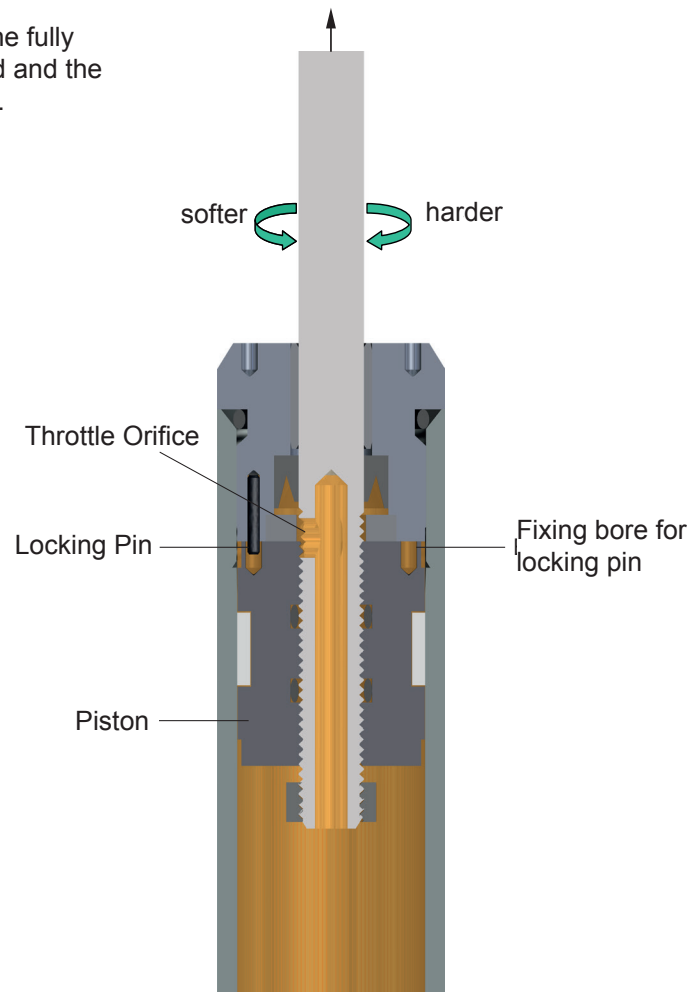


GW*	D	ØE	F	G	H	I	J	SW	K	L	M	N	O	P
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
M 10	28	10	20	50	20	40	8,5	-	60	40	26	46	10	8

Ordering Information	
WM-ZL 2-050-K3G4-C	
WM	Weforma
ZL	Deceleration Cylinders, without free travel
2	Diameter: 28 mm
050	Stroke: 50 mm
K3	Piston rod mounting: female rod clevis
G4	Housing mounting: spherical end bearing
C	Typ of deceleration : A= Push, B= Pull, C= Push and Pull

Adjustment

1. To adjust the damping force, pull the piston rod out to the fully extended position. The locking pin can now be engaged and the throttle orifice can be adjusted by turning the piston rod.
2. Damping:
Turn clockwise - harder deceleration
Turn anti-clockwise - softer deceleration



General Information

Shock absorber, deceleration cylinders and speed controls may under no circumstances be welded, painted or provided with clamps.

The products must be protected against contamination, fluids and air pressure. We offer special solutions for these applications. deceleration cylinder should be assembled only with the fixture indicated in the catalogue. When deceleration cylinders are used parallel the size of the model and the used degree of hardness / used adjustment has to be the same. The load has to be distributed equally. Upon the occurrence of vibrations and oscillation a written release by Weforma is required. If the absorption should be insufficient, please contact Weforma or the respective representation.

Deceleration cylinders of the WM-ZL series are adjustable over the whole deceleration range.

Position of installation: WM-ZL - any position A fixed stop must be set in the end positions 1 - 1,5 mm before the end of the stroke. WM-ZL without free travel by volume compensation of the piston rod in the housing. As a result of the adjustment, the total length can change up to 8 mm. Do not drive in the final position under full load.

