

## Deceleration cylinder

WM-ZG 2

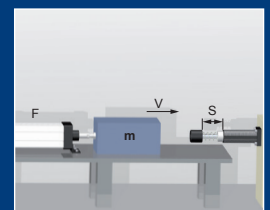
WM-ZG 3

WM-ZG 5

WM-ZG 7



2D / 3D CAD  
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## Features

### **Design:**

- Flexibility relating to Stroke, Deceleration Characteristic

### **Position of installation:**

- Any position

### **Deceleration Characteristic:**

- adjustable
- Push, Pull , Push + Pull

### **Temperature:**

- Standard: -20°C - +80°C
- Low-temperature: -50°C - +60°C
- High-temperature: 0°C - +120°C

### **Extended Life Time:**

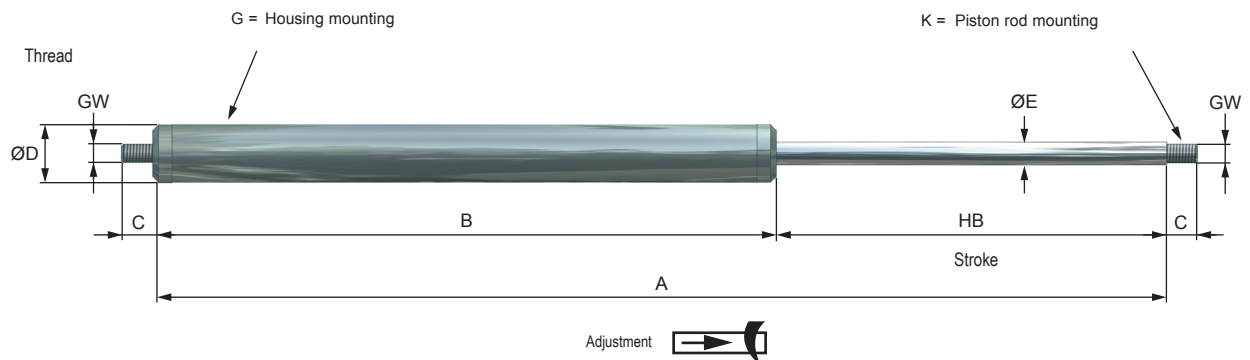
- Special Seals + Oils
- Piston Rod: hard-chrome plated

### **Surface protection:**

- Housing: Zinc Plated

### **RoHS- conform:**

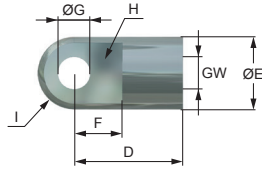
- Directive 2002/95/EC



## PERFORMANCE

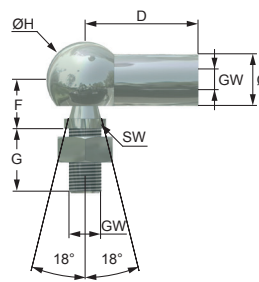
	Stroke mm	Max. compression force N	Version ZG		Return force max. N					Weight (ZG) kg
			A	B		C	ø D	ø E	GW	
			mm	mm		mm	mm	mm	mm	
WM-ZG 2-050	50	3100	240	190	60	10	28	8	M 8	0,5
WM-ZG 2-100	100	3100	340	240	60	10	28	8	M 8	0,6
WM-ZG 2-150	150	3100	440	290	60	10	28	8	M 8	0,7
WM-ZG 2-200	200	3100	540	340	60	10	28	8	M 8	0,8
WM-ZG 2-250	250	3100	640	390	60	10	28	8	M 8	0,9
WM-ZG 2-300	300	2800	740	440	60	10	28	8	M 8	1,0
WM-ZG 2-350	350	2300	840	490	60	10	28	8	M 8	1,0
WM-ZG 2-400	400	1800	940	540	60	10	28	8	M 8	1,2
WM-ZG 3-100	100	10000	355	255	180	10	35	14	M 10	1,4
WM-ZG 3-200	200	10000	555	355	180	10	35	14	M 10	1,7
WM-ZG 3-300	300	10000	755	455	180	10	35	14	M 10	2,0
WM-ZG 3-400	400	10000	955	555	180	10	35	14	M 10	2,2
WM-ZG 3-500	500	8500	1155	655	180	10	35	14	M 10	2,3
WM-ZG 5-100	100	24000	420	320	300	25	50	18	M 16	3,1
WM-ZG 5-200	200	24000	620	420	300	25	50	18	M 16	4,0
WM-ZG 5-300	300	24000	820	520	300	25	50	18	M 16	4,7
WM-ZG 5-400	400	24000	1020	620	300	25	50	18	M 16	5,5
WM-ZG 5-500	500	22000	1220	720	300	25	50	18	M 16	6,2
WM-ZG 7-100	100	52000	470	370	700	35	70	28	M 24x2	6,6
WM-ZG 7-200	200	52000	670	470	700	35	70	28	M 24x2	7,9
WM-ZG 7-300	300	52000	870	570	700	35	70	28	M 24x2	9,2
WM-ZG 7-400	400	52000	1070	670	700	35	70	28	M 24x2	10,4
WM-ZG 7-500	500	50000	1270	770	700	35	70	28	M 24x2	11,7

## 1 Male rod clevis



1	GW*	D	ØE	F	G	H	I	
		mm	mm	mm	mm	mm	mm	
1	WM-ZG 2	M 8	19	14	12	8,1	10	7
	WM-ZG 3	M 10	27	18	12	8,1	10	9

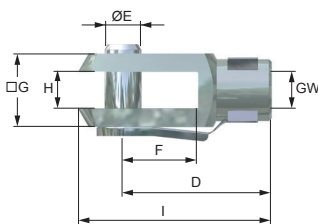
## 2 Angle joint (DIN 71802)



2	GW*	D	ØE	F	G	H	SW
		mm	mm	mm	mm	mm	mm
2	WM-ZG 2	M 8	30	13	16	20	11
	WM-ZG 3	M 10	35	16	19	24	13
	WM-ZG 5	M 16	45	22	20	28	30

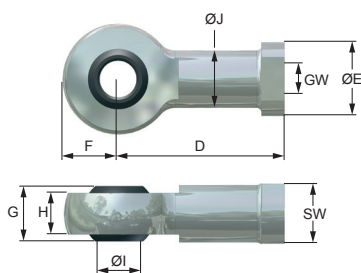
	Force
WM-ZG 0,6 / 0,8	250 N
WM-ZG 1	500 N
WM-ZG 2	1.230 N
WM-ZG 3	1.900 N
WM-ZG 5	3.200 N

## 3 Female rod clevis (DIN 71752)



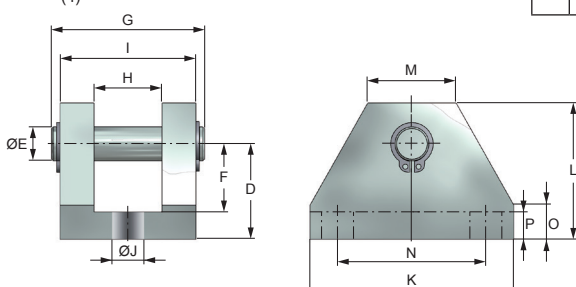
3	GW*	D	ØE	F	G	H	I
		mm	mm	mm	mm	mm	mm
3	WM-ZG 2	M 8	32	8	16	8	42
	WM-ZG 3	M 10	40	10	20	10	52
	WM-ZG 5	M 16	64	16	32	16	83
	WM-ZG 7	M 24 x 2	100	25	50	25	132

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



4	GW*	D	ØE	F	G	H	I	J	SW
		mm	mm	mm	mm	mm	mm	mm	mm
4	WM-ZG 2	M 8	36	16	12	12	9	8	12,5
	WM-ZG 3	M 10	43	19	14	14	10,5	10	15
	WM-ZG 5	M 16	64	27	21	21	15	16	20
	WM-ZG 7	M 24 x 2	94	42	30	31	22	25	33,5

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



5	GW*	D	ØE	F	G	H	I	J	K	L	M	N	O	P
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
5	WM-ZG 3	M 10	28	10	20	20	40	8,5	60	40	26	46	10	8
	WM-ZG 5	M 16	38	16	28	26	55	11	75	55	30	55	15	10
	WM-ZG 7	M 24 x 2	45	25	33	70	32	65	13	90	65	40	70	20

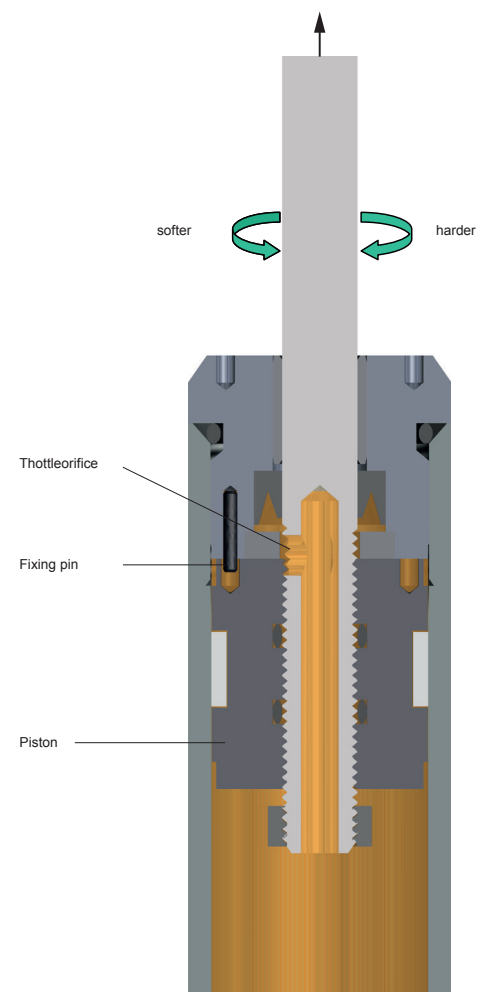
## Ordering Information

WM-ZG 2-050-K3G4-C

<b>WM</b>	<b>Weforma</b>
<b>ZG</b>	Deceleration cylinder with volume compensation of the piston rod
<b>2</b>	Diameter: 28 mm
<b>050</b>	Stroke: 50 mm
<b>K3</b>	Piston rod mounting: female rod clevis
<b>G4</b>	Housing mounting: Spherical end bearing
<b>C</b>	Deceleration Characteristic: <b>A=push, B=pull, C=push + pull</b>

## Adjustment

1. Pull piston rod to the end position and thereby turn slightly until the locking bolt clicks into place. The piston is now fixed.  
By turning the piston rod change the Cross section of the throttle bores.
2. Damping:
  - harder: turn the piston rod clockwise
  - softer: turn the piston rod anti-clockwise



## Important Information

### General Information

Door Dampers 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. Door Dampers should be assembled only with the fixture indicated in the catalogue.

When Door Dampers 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.

You will find further technical informations to the series on the following pages and in our catalogue.

Position of installation: WM-ZD- any position

A fixed stop must be set in the end positions 1 - 1,5 mm before the end of the stroke.

As a result of the adjustment, the total length can change up to 8 mm. Door Dampers of the WM-ZD series can only be used alternating.

Do not drive in the final position under full load.

