

Gasdruckfedern · Gas Springs

Ressorts à Gaz · Molle a Gas · Resortes a Gas Compression



D

- **Hohe Korrosionsbeständigkeit**
 - Gehäuse: pulverbeschichtet (WM-G 8: Messing)
 - Kolbenstange: keramisch beschichtet oder hartverchromt
- **Minimale Reibungswerte für niedrigste Ausschubkräfte**
- **Integrierte Fettkammer und Gleitlager**
 - Niedrige Losbrechkraft
 - Einbaulage: beliebig
 - Wartungsfrei und einbaufertig
 - Temperaturbereich: -30°C – +80°C, optional: -45°C – +200°C
 - RoHS konform Richtlinie 2002/95/EG
 - Ausschubkraft muss bei Bestellung angegeben werden

GB

- **High corrosion resistance**
 - Housing: powder coated (WM-G 8: brass)
 - Piston rod: ceramic coated or hard chrome-plated
- **Minimal friction coefficient to achieve the lowest extension forces**
- **Integrated grease chamber and sliding bearing**
 - Lower breakaway force
 - Installation position: any
 - Maintenance-free and ready for installation
 - Temperature: -30°C – +80°C, optional: -45°C – +200°C
 - RoHS compliant Directive 2002/95/EC
 - Extension force must be stated on ordering.

F

- **Résistance élevée à la corrosion**
 - Corps : peinture à la poudre (WM-G 8 : laiton)
 - Tige de piston : revêtement céramique ou chrome dur
- **Valeurs de frottement minimales pour atteindre les plus faibles forces d'extension**
- **Chambre de lubrification et palier lisse intégrés**
 - Faible force de rupture
 - Position de montage: au choix
 - Sans maintenance et prêt à monter
 - Températures: -30°C – +80°C, en option: -45°C – +200°C
 - RoHS compliant Directive 2002/95/EC
 - L'effort de tarage doit être précisé lors de la commande

I

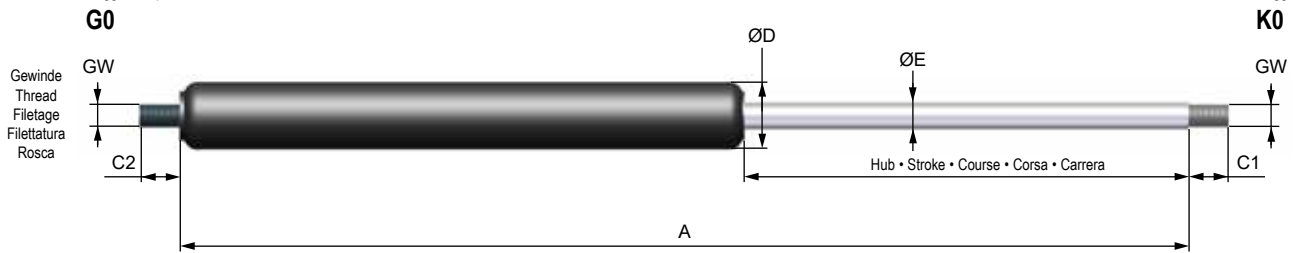
- **Elevata resistenza alla corrosione**
 - Corpo: rivestimento in polvere (WM-G 8: ottone)
 - Stelo del pistone: rivestimento ceramico o cromo duro
- **Valori d'attrito ridotti per ottenere forze d'espulsione minime**
- **Camera di lubrificazione e cuscinetti a strisciamento integrati**
 - Forza di spunto ridotta
 - Posizione di montaggio: a scelta
 - Senza manutenzione e pronte per il montaggio
 - Temperatura: -30°C - +80°C, opzionale: -45°C - +200°C
 - RoHS compliant Direttiva 2002/95/EC
 - La forza di espulsione deve essere indicata quando si effettua l'ordine

E

- **Alta resistencia a la corrosión**
 - Carcasa: recubrimiento en polvo (WM-G 8: latón)
 - Vástago del émbolo: revestimiento cerámico o cromado duro
- **Valores de fricción mínimos para conseguir las menores fuerzas de extracción**
- **Cámara de grasa y cojinetes deslizantes integrados**
 - Fuerza de arranque baja
 - Posición de montaje: cualquiera
 - Sin mantenimiento y listo para ser montado
 - Temperaturas: -30°C – +80°C, opcional: -45°C – +200°C
 - RoHS y que cumplan Directiva 2002/95/CE
 - Debe indicarse la fuerza de extensión en el pedido

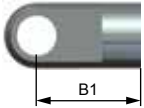
Befestigung / Mounting
Fixation / Fissaggio / Soporte

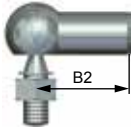
Befestigung / Mounting
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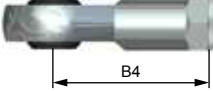
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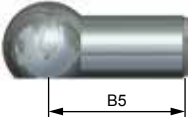
- 1** Gelenkauge • Male rod clevis
Tête de chape (male)
Attacco a cerniera maschio
Charnela macho



- 2** Winkelgelenk • Angle joint
Joint à angle • Snodo angolare
Charnela articulada

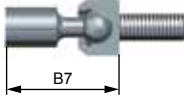

- 3** Gabelkopf • Female rod clevis
Embout à rotule (femelle)
Forcella femmina
Charnela hembra



- 4** Gelenkkopf • Spherical end bearing
Joint articulé • Forcella snodata
Charnela macho articulada


- 5** Kugelfanne • Ball joint housing
Cousinet sphérique
Cuscinetto sferico
Cojnete esférico


- 6** Ablasschraube • Release screw
Vis de purge • Tappo di scarico
Tornillo de vaciado
**nur G
only G**


- 7** Gelenkschraube • Ball joints
Inline rotule • Snodo Sferico Assiale
Línea de rótulas

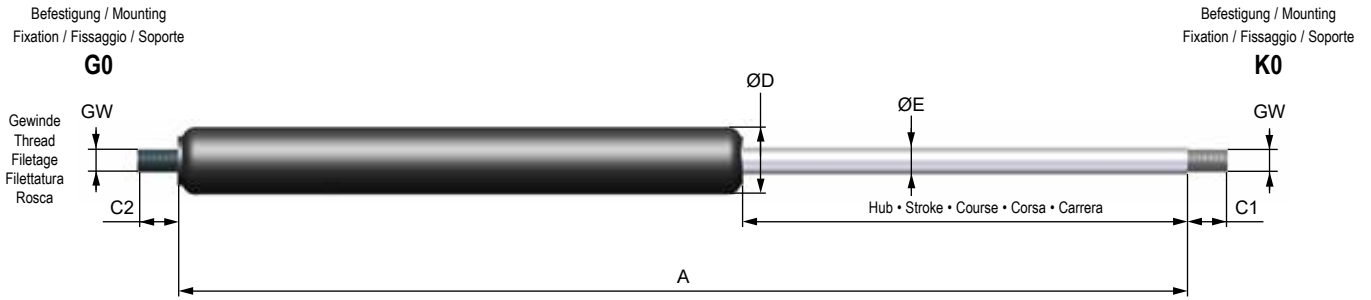

- 8** Schutzrohr • Protection tube
Tube de protection
Tubo di protezione
Tubo de protección



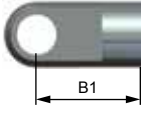
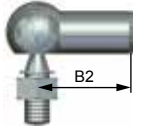

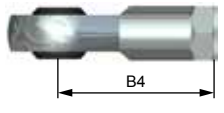
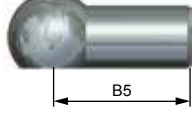

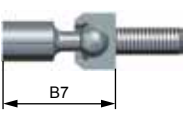

ABMESSUNGEN • DIMENSIONS • DIMENSIONI • DIMENSIONES

	ø D	Hub • Stroke Course • Corsa Carrera	Kraft • Force Force • Forza Fuerza		Kraft bei eingefahrener Kolbenstange Force with compressed piston rod*	A	B1	B2	B3	B4	B5	B6	B7	C1	C2	ø E	GW
	mm	mm	N min.	N max.	N max.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
WM-G-8-20	8	20	10	100	128	72	11	18	16	21	18	-	-	4	4	3	M3
WM-G-8-30	8	30	10	100	128	92	11	18	16	21	18	-	-	4	4	3	M3
WM-G-8-40	8	40	10	100	128	112	11	18	16	21	18	-	-	4	4	3	M3
WM-G-8-50	8	50	10	100	128	132	11	18	16	21	18	-	-	4	4	3	M3
WM-G-8-60	8	60	10	100	128	152	11	18	16	21	18	-	-	4	4	3	M3
WM-G-8-80	8	80	10	100	128	192	11	18	16	21	18	-	-	4	4	3	M3
WM-G-10-20	10	20	10	100	120	72	11	18	16	21	18	-	-	4	4	3	M3
WM-G-10-30	10	30	10	100	120	92	11	18	16	21	18	-	-	4	4	3	M3
WM-G-10-40	10	40	10	100	120	112	11	18	16	21	18	-	-	4	4	3	M3
WM-G-10-50	10	50	10	100	120	132	11	18	16	21	18	-	-	4	4	3	M3
WM-G-10-60	10	60	10	100	120	152	11	18	16	21	18	-	-	4	4	3	M3
WM-G-10-80	10	80	10	100	120	192	11	18	16	21	18	-	-	4	4	3	M3
WM-G-12-20	12	20	10	180	218	72	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-30	12	30	10	180	218	92	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-40	12	40	10	180	218	112	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-50	12	50	10	180	218	132	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-60	12	60	10	180	218	152	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-80	12	80	10	150	218	192	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-100	12	100	10	150	218	232	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-120	12	120	10	120	218	272	12	18	16	12	18	5	-	5	5	4	M4
WM-G-12-150	12	150	10	100	218	332	12	18	16	12	18	5	-	5	5	4	M4
WM-G-15-20	15	20	20	400	508	67	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-40	15	40	20	400	508	107	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-50	15	50	20	400	508	127	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-60	15	60	20	400	508	147	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-80	15	80	20	400	508	187	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-100	15	100	20	400	508	227	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-120	15	120	20	400	508	267	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-150	15	150	20	400	508	327	16	22	20	30	22	5	28	5	5	6	M5
WM-G-15-200	15	200	20	350	508	427	16	22	20	30	22	5	28	5	5	6	M5

* Force avec tige de piston rentrée • Forza con stelo del pistone retratta • Fuerza con vástago del émbolo introducida



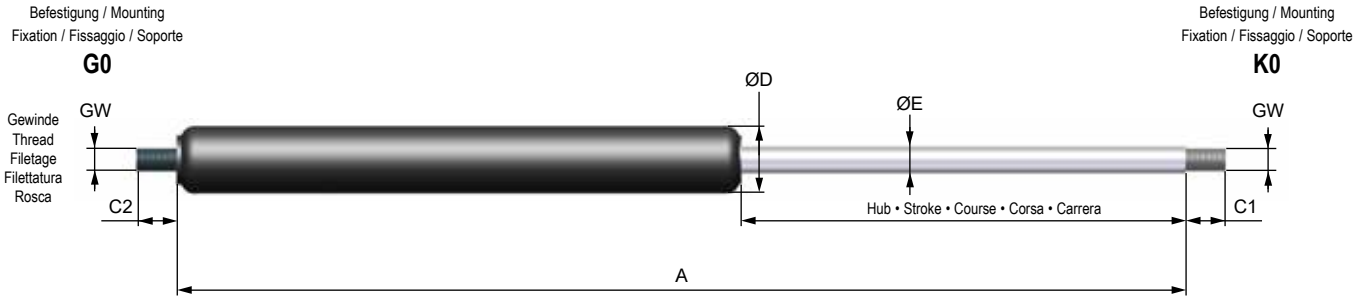
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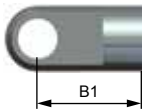
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	mm	mm	N min.	N max.	N max.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
WM-G-19-50	19	50	50	700	931	164	20	30	32	36	30	8	31	9	8	8	M8
WM-G-19-100	19	100	50	700	931	264	20	30	32	36	30	8	31	9	8	8	M8
WM-G-19-150	19	150	50	700	931	364	20	30	32	36	30	8	31	9	8	8	M8
WM-G-19-200	19	200	50	700	931	464	20	30	32	36	30	8	31	9	8	8	M8
WM-G-19-250	19	250	50	600	931	564	20	30	32	36	30	8	31	9	8	8	M8
WM-G-19-300	19	300	50	450	931	664	20	30	32	36	30	8	31	9	8	8	M8
WM-G-22-50	22	50	80	1300	1807	164	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-100	22	100	80	1300	1807	264	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-150	22	150	80	1300	1807	364	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-200	22	200	80	1300	1807	464	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-250	22	250	80	1300	1807	564	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-300	22	300	80	1100	1807	664	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-350	22	350	80	850	1807	764	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-400	22	400	80	650	1807	864	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-450	22	450	80	550	1807	964	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-500	22	500	80	450	1807	1064	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-550	22	550	80	400	1807	1164	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-600	22	600	80	350	1807	1264	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-650	22	650	80	300	1807	1364	20	30	32	36	30	8	31	9	8	10	M8
WM-G-22-700	22	700	80	250	1807	1464	20	30	32	36	30	8	31	9	8	10	M8
WM-G-28-100	28	100	150	2500	3800	262	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-150	28	150	150	2500	3800	362	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-200	28	200	150	2500	3800	462	25	35	40	43	35	13	-	9	13	14	M10
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WM-G-28-350	28	350	150	2500	3800	762	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-400	28	400	150	2400	3800	862	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-450	28	450	150	1950	3800	962	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-500	28	500	150	1600	3800	1062	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-550	28	550	150	1350	3800	1162	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-600	28	600	150	1150	3800	1262	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-650	28	650	150	1000	3800	1362	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-700	28	700	150	900	3800	1462	25	35	40	43	35	13	-	9	13	14	M10
WM-G-28-750	28	750	150	800	3800	1562	25	35	40	43	35	13	-	9	13	14	M10

* Force avec tige de piston rentrée • Forza con stelo del pistone retracts • Fuerza con vástago del émbolo introducida

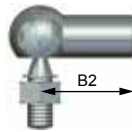


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1 Gelenkauge • Male rod clevis
 Tête de chape (male)
 Attacco a cerniera maschio
 Charnela macho



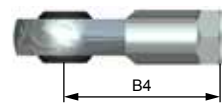
2 Winkelgelenk • Angle joint
 Joint à angle • Snodo angolare
 Charnela articulada



3 Gabelkopf • Female rod clevis
 Embout à rotule (femelle)
 Forcella femmina
 Charnela hembra



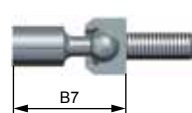
4 Gelenkkopf • Spherical end bearing
 Joint articulé • Forcella snodata
 Charnela macho articulada



6 nur G
 only G
 Ablaßschraube • Release screw
 Vis de purge • Tappo di scarico
 Tornillo de vaciado



7 Gelenkschraube • Ball joints
 Inline rotule • Snodo Sferico Assiale
 Línea de rótulas



8 Schutzrohr • Protection tube
 Tube de protection
 Tubo di protezione
 Tubo de protección



ABMESSUNGEN - DIMENSIONS - DIMENSIONI - DIMENSIONES

	ø D	Hub • Stroke Course • Corsa Carrera	Kraft • Force Force • Forza Fuerza		Kraft bei eingefahrener Kolbenstange Force with compressed piston rod*	A	B1	B2	B3	B4	B6	B7	C1	C2	ø E	GW
	mm	mm	N min.	N max.	N max.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
WM-G-40-100	40	100	500	5000	7250	317	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-150	40	150	500	5000	7250	417	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-200	40	200	500	5000	7250	517	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-300	40	300	500	5000	7250	717	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-400	40	400	500	5000	7250	917	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-500	40	500	500	5000	7250	1117	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-600	40	600	500	4150	7250	1317	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-800	40	800	500	2550	7250	1717	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-40-1000	40	1000	500	1700	7250	2117	40	45	56	57	15	-	15	15	20	M14x1,5
WM-G-70-100	70	100	2000	12000	15000	320	-	-	100	94	-	-	35	35	30	M24x2,0
WM-G-70-200	70	200	2000	12000	15000	520	-	-	100	94	-	-	35	35	30	M24x2,0
WM-G-70-300	70	300	2000	12000	15000	720	-	-	100	94	-	-	35	35	30	M24x2,0
WM-G-70-400	70	400	2000	12000	15000	920	-	-	100	94	-	-	35	35	30	M24x2,0
WM-G-70-500	70	500	2000	12000	15000	1120	-	-	100	94	-	-	35	35	30	M24x2,0
WM-G-70-600	70	600	2000	12000	15000	1320	-	-	100	94	-	-	35	35	30	M24x2,0
WM-G-70-700	70	700	2000	12000	15000	1520	-	-	100	94	-	-	35	35	30	M24x2,0
WM-G-70-800	70	800	2000	11550	15000	1720	-	-	100	94	-	-	35	35	30	M24x2,0

* Force avec tige de piston rentrée • Forza con stelo del pistone retratta • Fuerza con vástago del émbolo introducida

WM-G-28: Höhere Ausschubkräfte bis 6400 N mit Elasto-Fluid Feder WES-G möglich: Seite 154
 WM-G-28: Higher extension forces up to 6400 N possible using Elasto-Fluid-Springs WES-G: Page 154

Gasfeder-Füllkoffer - Gas spring Refilling Kit



Gasfeder-Füllkoffer zum füllen und anpassen von Gasfedern vor Ort. Der Koffer enthält alle Füllglocken und Ablaßschrauben. Der Füllkoffer ist passend für 200 bar Stickstoff-Flaschen mit Gewinde W24,32x1/14". Stickstoff ist im Lieferumfang nicht enthalten.

The gas spring refilling kit allows to fill or adjust gas springs on site. The kit contains all necessary filling bells and release screws for our product range. The refilling kit is equipped for 200 bar nitrogen bottles with thread W24,32x1/14". Nitrogen is not included.

Gasfeder-Ablasskoffer - Gas Spring Release Kit



Gasfeder-Ablasskoffer zum kontrollierten Ablassen von Stickstoff bei Gasfedern. Der Koffer enthält alle notwendigen Ablaß-Schrauben und einen Manometer zum Prüfen des verbleibenden Drucks in der Gasfeder.

Gas spring release kit for controlled discharge of nitrogen in gas springs. The kit contains all necessary release screws and a pressure gauge to control the remaining pressure in the gas spring.

Gasfeder Füllstand - Gas Spring Filling Station



Gasfeder Füllstand zum Füllen von Gasfedern (außer WM-G-70). Der Füllstand wird inklusiver aller Fülladapter geliefert. Stickstoff ist im Lieferumfang nicht enthalten.

Gas spring filling station to fill gas springs (except WM-G-70). All necessary filling adapters are included. Nitrogen is not included.