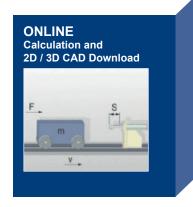
01.3.2018

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Elasto-Fluid Springs

WES-G





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Benefits

Damping medium Elasto-Fluid

High extension force up to 6400 N

Compact construction Compact design

Extended Life Time Housing: zinc plated

Piston rod: stainless steel

Hysteresis 5 - 15%

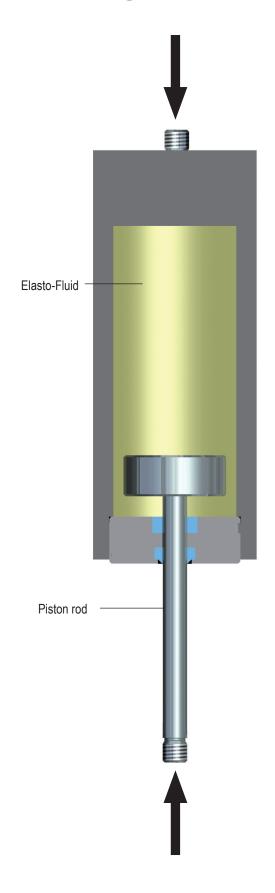
RoHS compliant Directive 2002/95/EG

Applications Heavy flaps, covers and lids

Extension to gas spring WM-G28

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Operating Principle



Elasto-Fluid springs of production series WES-F take advantage of the compressibility of the pre-stressed Elasto-Fluid.

If an Elasto-Fluid spring is loaded with an axial force F, the piston rod and/or the piston penetrates into the pre-stressed Elasto-Fluid. This further increases the pressure. If force F is reduced, the Elasto-Fluid relaxes and returns the piston / piston rod to the starting position.

This technique is used among other things in the rolling mills of cold and hot steel mills. The upper roller inc. attachments is borne by 2 and/or 4 Elasto-Fluid springs of production series WES-F. With the help of hydraulics, the upper roller can be lowered to the desired roll gap. The Elasto-Fluid springs retract accordingly and hold the upper roller in position. If the upper roller is unburdened, the Elasto-Fluid relaxes and returns the roller to the starting position.

As an additional function, the Elasto-Fluid springs can serve as pistons and be used for roller bending. Elasto-Fluid springs of production series WES-F are based on standard designs, modified and adapted to meet customer requirements.

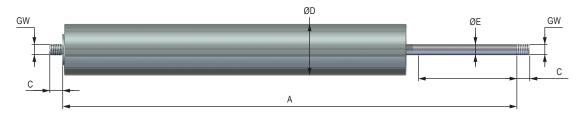
Federn der Baureihe WES-G wurden auf dem Prinzip der hydrostatischen Kompression visko-elastischer Flüssigkeiten entwickelt. Es werden zwei Eigenschaften genutzt: Kompressibilität und Viskosität in Zusammenhang mit Druck.

Durch die Kompressibilität des Elastomers, die bis zu 15% betragen kann, wird die Federwirkung erreicht.

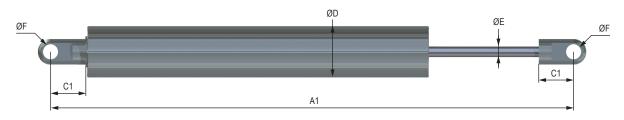
Die Rückstellung der Kolbenstange erfolgt durch das Entspannen des komprimierten Elastomers.

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WES-G28-XX-K0G0



WES-G28-XX-K1G1





DIMENSIONS

	GW	А	A1	В	С	C1	ØD	ØE	ØF
		mm	mm	mm	mm	mm	mm	mm	mm
WES-G28-20-K0G0	M6	132	-	-	7	-	28	6	-
WES-G28-40-K0G0	M6	197	-	-	7	-	28	6	-
WES-G28-60-K0G0	M6	262	-	-	7	-	28	6	-
WES-G28-80-K0G0	M6	327	-	-	7	-	28	6	-
WES-G28-20-K1G1	-	-	155,5	10	-	19	28	6	8,1
WES-G28-40-K1G1	-	-	220,5	10	-	19	28	6	8,1
WES-G28-60-K1G1	-	-	285,5	10	-	19	28	6	8,1
WES-G28-80-K1G1	-	-	350,5	10	-	19	28	6	8,1

PERFORMANCE

	Stroke	Force		Initial force	Progression	
		N min	N max	max. N		
WES-G28-20	20	2200	6400	3600	100 - 400 %	
WES-G28-40	40	2200	6400	3600	100 - 400 %	
WES-G28-60	60	2200	6400	3600	100 - 400 %	
WES-G28-80	80	2200	6400	3600	100 - 400 %	



Important information

Attention!

Before Installation, commissioning, servicing and repair the date sheet is to be noticed. Realisation of the works only by trained, introduced specialist staff.

Electric connections according to the suitable national regulation. for Germany: VDE regulation VD E0100

Before all repair, and servicing works the energy supplies (main switch, etc.) are to be switched off! More over, measures are necessary, around unintentional Reconnect to prevent, e.g., in the main switch a suitable warning "servicing works", "repair works" etc. attach.

Designated use

Check before installation and use whether the type name on the damper or on the packaging with the suitable name on the delivery note agrees

Industrial shock absorbers are maintenance-free and ready with installation

- Moved masses can start with the installation of the shock absorbers by unintentional for injuries and body damages lead. Moved masses gainst unintentional procedure protect.
- The dampers can be inexpedient for the application and show no sufficient damping effect. Before the installation check the suitable suitability of the shock absorbers
- At the company beyond the allowed temperature area the damper can lose his function. To temperature area absolutely keep.
 Shock absorbers because of the warm radiotherapy do not varnish
- Fluide, gases and dirty particle in the surroundings can attack the poetry system of the shock absorber or destroy and lead
 to the functional financial loss of the shock absorber. Piston rod and poetry system against outside funds in the surroundings
 protect or isolate.
- Damages of the piston rod surface can destroy the poetry system. Piston rod are not greasy, oil etc. and before dirty particles protect.
- The piston rod can be torn out from the damper. The piston rod do not load on train tension
- Shock absorber can break off in demand. The connection construction always lay out in such a way that the at most appearing
 forces with sufficient security can be recorded. The maximum supporting forces performed in the calculation programme can
 deviate from the later really appearing supporting forces, because these are based on theoretical values.
- A setting of the shock absorbers to the respective application is necessary compelling. A wrong setting of the damping leads to a raised machine charge and to an untimely financial loss of the shock absorber

Liability

Due to the number of possible uses of our products and the conditions of use that lie outside of our scope of influence, we accept no liability as to whether the purchase object is suitable for the Client's intended purpose. The verification to this effect, in particular the verification as to whether the purchase object is suitable for the planned use, is the responsibility of the Client alone, unless expressly agreed otherwise in writing.

For the reasons we accept no liability for the suitability of the purchase object for the purpose intended by the Client, except in cases of intent or gross negligence.

With damages, the not designated use and from high-handed, in these instructions do not originate to intended interventions, any guarantee and liability claim goes out towards the manufacturer.

Guarantee

By non-use of the original spare parts the guarantee claim goes out.

Environment protection

By the exchange from damaged parts is to be respected to a proper disposal.