



Electronic adjustable dampers according to the electrorheological technology

The intelligent damper - due to ER-technology (ERF)

The Bansbach easyERF dampers are **extremely quick** and efficient dampers with a broad application field. Its innovation potential is the **electronically adjustable damping intensity** and the reaction time is **within milliseconds**. Advantages of the damper: no wear and tear, maintenance-free, high reliability.

Continuously variable

a complete characteristic **damper field** is available.

Digital control

by adapting the electrical input signal, the **damping can be adjusted**; either with PWM-standard or with 0 - 4 V analog signal.
SPS is possible; supply 24 V DC

Response characteristics

the required damper force can be realised with a reaction time of **only few milliseconds**.

Noiseless and maintenance-free

no "laminar flow noises", no "whistling noises",
no moveable valve parts

energy-efficient

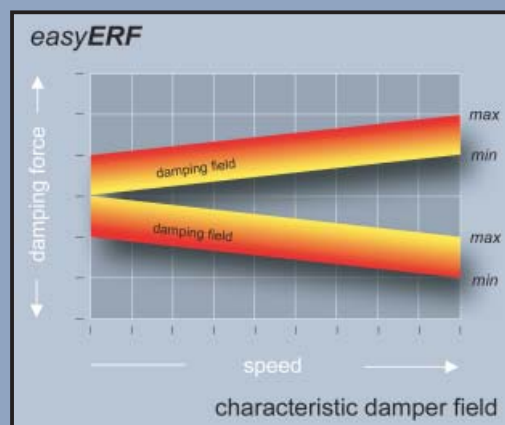
low consumption; high efficiency





The technology

In the electrical field, the electrorheological fluid changes its consistency **from thick to thin within milliseconds**. According to the ERF-technology, the dampers adapt **very quickly** to changing system requirements, using as little energy as possible.

An electrical signal determines the damper forces which can thus be optimally adapted to operating excitation forces.

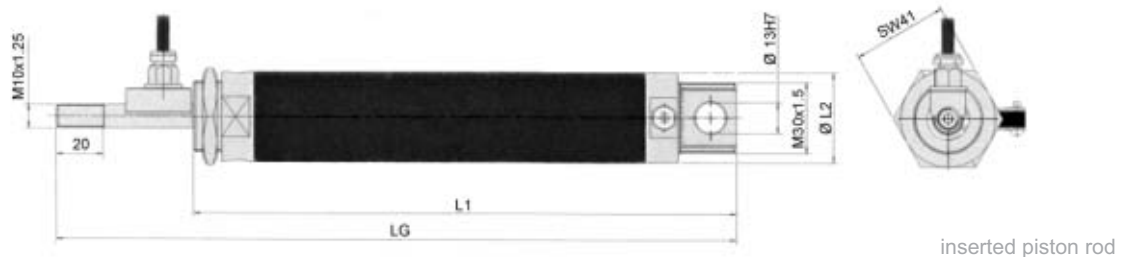
The damping force can consequently be adjusted within the **characteristic field** - quick, at any time, noiseless - and only by the use of a simple electronic interface.



size	extension force [N]	damping force* v = 0,05m/s		damping force* v = 0,5m/s		stroke [mm]	LG [mm]	L1 [mm]	L2 [mm]	Ø piston rod [mm]
		F min [N]	F max[N]	F min [N]	F max[N]					
easyERF 25 	94 N	6 N	147 N	62 N	203 N	25	245	188	Ø 30	Ø 10
						50	270	213		
						75	295	238		
						100	320	263		
						125	345	288		
easyERF 32 	136 N	18 N	328 N	178 N	489 N	25	262	205	Ø 35	Ø 10
						50	287	230		
						75	312	255		
						100	337	280		
						125	362	305		
easyERF 40 	185 N	43 N	638 N	434 N	1028 N	25	290	210	□ 52	Ø 14
						50	315	235		
						75	340	260		
						100	365	295		
						125	390	310		
easyERF 50 	302 N	115 N	1334 N	1149 N	2367 N	25	331	233	□ 65	Ø 14
						50	356	258		
						75	381	283		
						100	406	308		
						125	431	333		

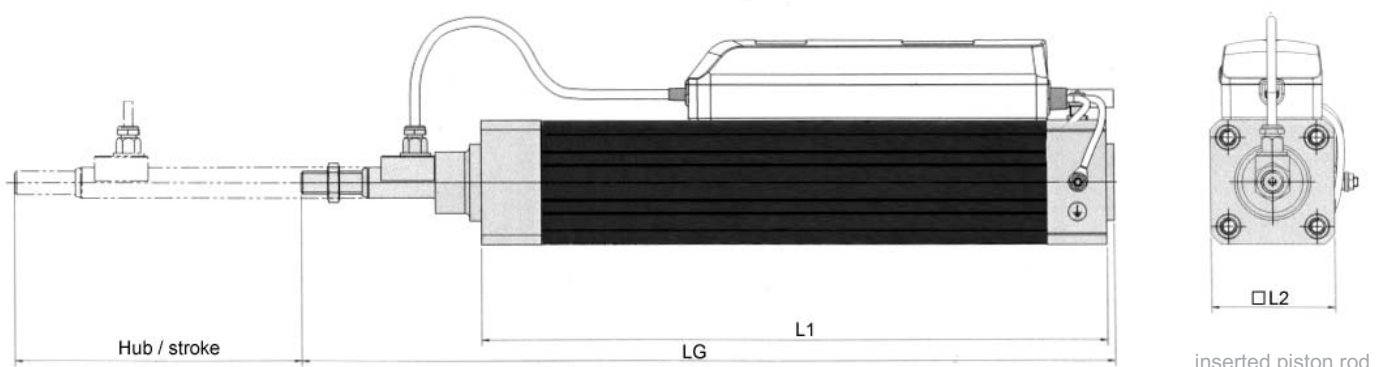
* The extension force is not included in the damping force

easyERF 25/32



inserted piston rod

easyERF 40/50



inserted piston rod