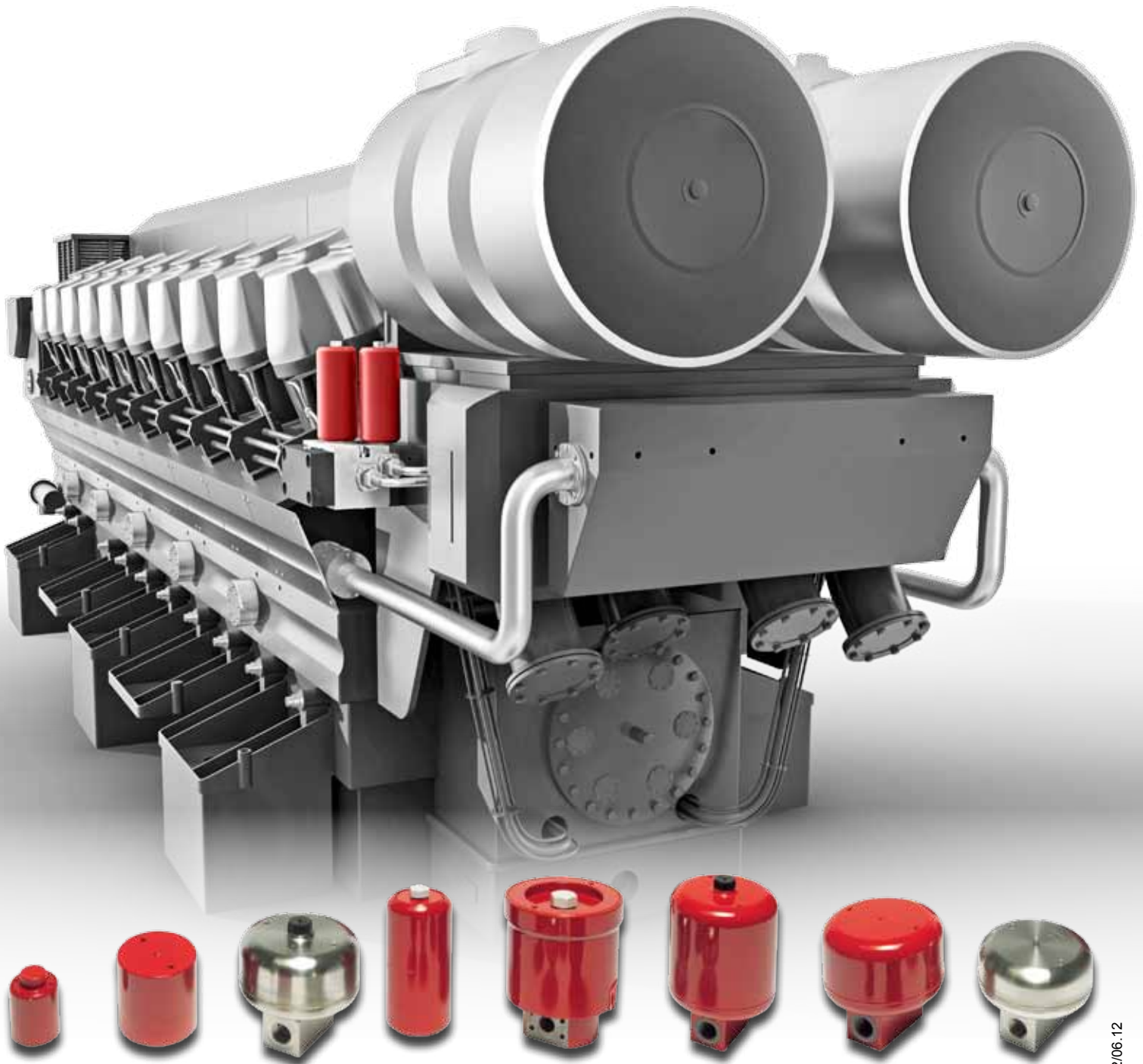


Heavy Diesel Engines Metal Bellows Accumulators



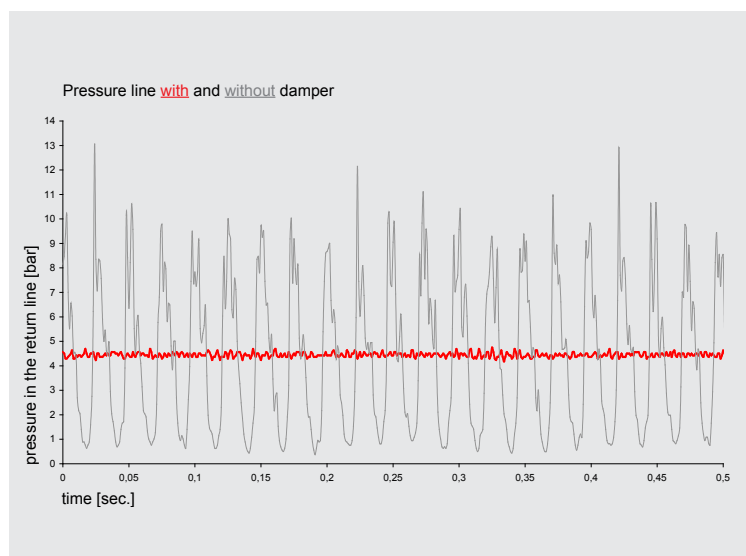
HYDAC Your Reliable Partner for Successful Applications.

PROBLEM: Protection of the system components from pulsations

In the fuel injection system of heavy diesel engines, pressure fluctuations are generated during the injection process by the high pressure pumps. These produce pulsations which can adversely affect system components or even damage them irreparably.




SOLUTION: Pulsation damping with HYDAC metal bellows accumulators

When HYDAC metal bellows accumulators are used in the supply and return lines of high pressure pumps, pulsations are reduced permanently and the system components are protected from damage or destruction.



METAL BELLOWS ACCUMULATOR FOR EVERY APPLICATION

Beside of the following flange and threaded type versions, HYDAC offers as well customized solutions on request.

Technical specifications HYDAC Metal Bellows Accumulator	 VERSION WITH Flange connection	 VERSION WITH Threaded connection
Series	SM50P	SM50
Max. design pressure	50 bar	
Max. operating pressure *	3 ... 12 bar	
Max. pre-charge pressure at T _{max}	up to 8 bar (depends on version)	
Temperature range	-10 ... +160 °C	
Operating media	Diesel and heavy fuel oil, biofuels	
Total volume	1.6 ... 3.8 litres	
Effective gas volume	≈ 0.5 litre (nitrogen)	
Gas side pre-charge fluid	≈ 0.3 ... 0.6 litre (Ethylenglycol)	
Fluctuating volume *	≈ 0.04 litre	
Material	Carbon steel (primed externally)	
Design and Approval *	e.g.: PED, ABS, DNV, LR, BV, GL, RMRS, CCS	
Fluid connection *	Diverting block SAE 1¼" Diverting block SAE 2" Diverting block SAE 3"	2" BSP or with adapter also for 1½" BSP 
Gas connection	M28x1.5 for Universal Charging and Testing Unit - FPU-1	
Mounting position *	preferably vertical (gas connection at top)	
Weight	9 ... 33 kg	

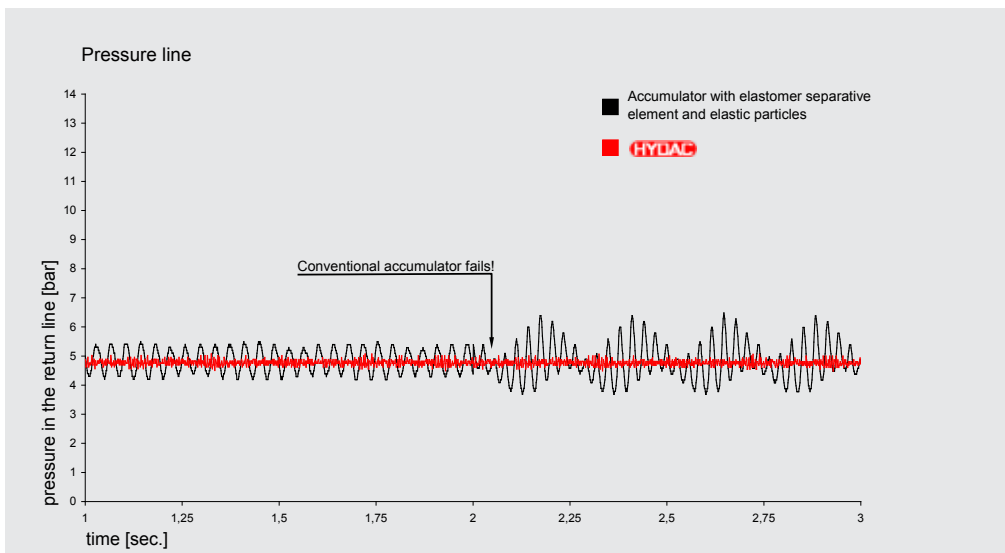
* others on request

HYDAC Your Reliable Partner for Successful Applications.

RETROFIT

If a conventional accumulator can no longer perform its function, this can lead to expensive maintenance and repair work. As your reliable partner, HYDAC will of course also support you if repairs or service are required, because selecting the right type of accumulator is crucial to long-term damping.

We are offering you the alternative: Replacement without the need for modification



SUCCESSFUL APPLICATION

Invest in a low-maintenance and cost-effective damping solution for your diesel engine.



BENEFITS:

- Durable
- Wear-free (no friction between components)
- Fluid resistant across whole temperature range (e.g. high injection temperature when using heavy fuel oil)



Cat.: Accumulators E 30.000



Catalogue: Fluid Filters E 70.000



Cat.: Process Technology E 77.000



Brochure: Filter Systems DEF 7.929



Br.: Compact Hydraulics DEF 5.300



Catalogue: Accessories E 61.000

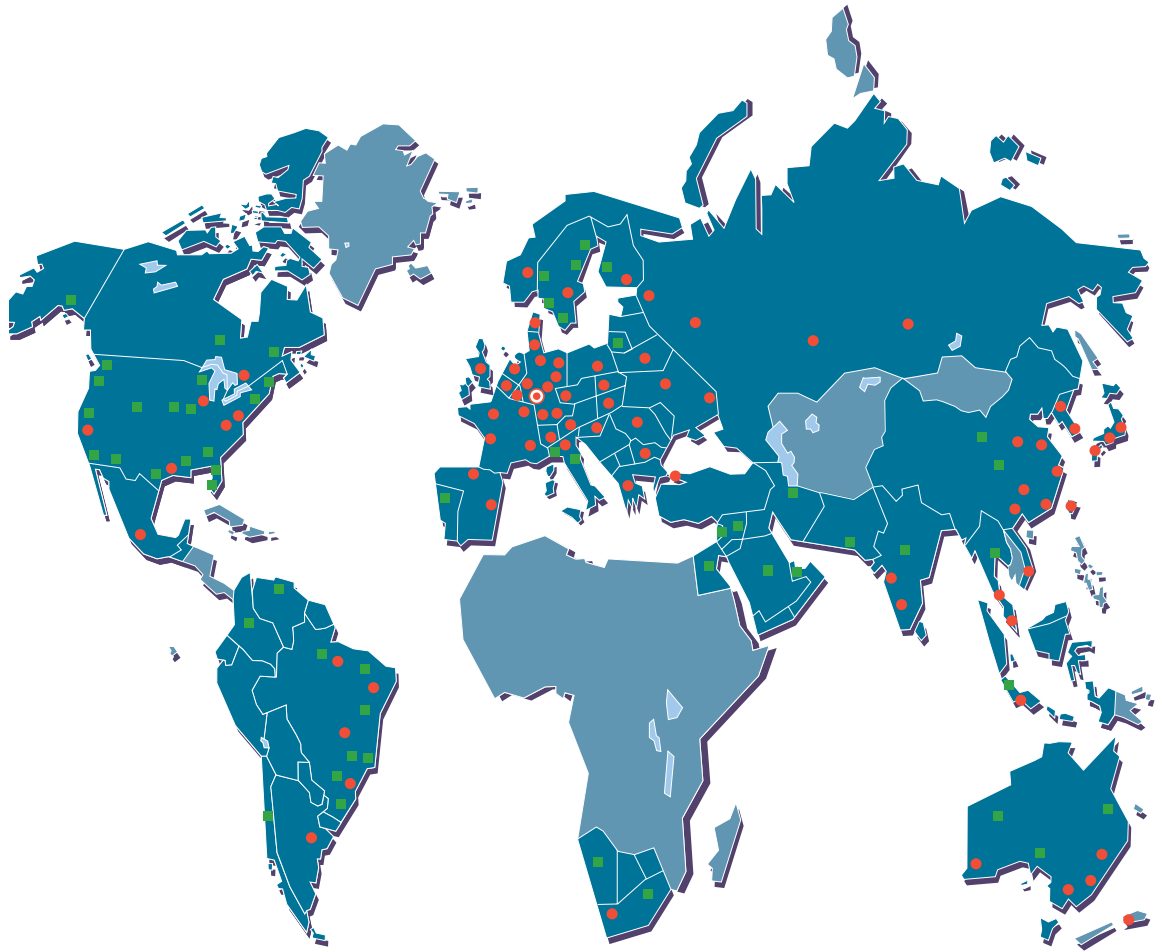





Catalogue: Electronics E 180.000



Br.: Cooling Systems DEF 5.700

Global Presence. Local Expertise. www.hydac.com



-  HYDAC Head Office
-  HYDAC Companies
-  HYDAC Service Partners

HYDAC INTERNATIONAL

Head Office
HYDAC INTERNATIONAL
GMBH

Industriegebiet
66280 Sulzbach/Saar
Germany

Telephone:
+49 6897 509-01
Fax:
+49 6897 509-577

E-Mail: speichertechnik@hydac.com
Internet: www.hydac.com