MULTISAFE Double Hose-Diaphragm Process Pump
for Extreme Pumping Temperatures

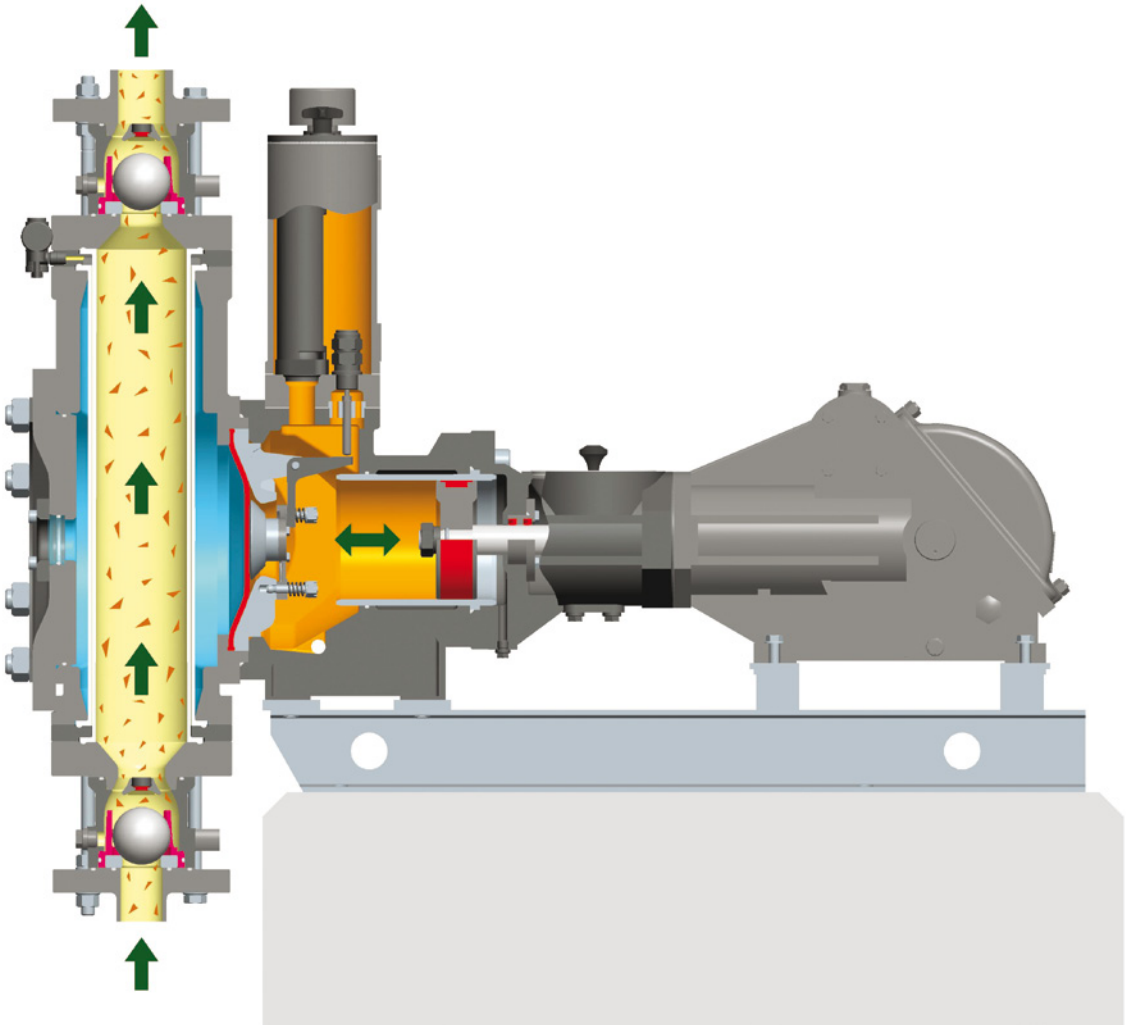

Fig. 1: Double redundant MULTISAFE pump with double hose-diaphragms made of special PTFE and additional flat diaphragm.

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Efficiency even at extreme pumping temperatures
Also in terms of pumping temperature the modular system of double hose-diaphragm pumps includes a great variety of options:

Generally, elastomer hose-diaphragms are applied for temperatures up to 130 °C. For higher pumping temperatures of < 200 °C the use of PTFE mixtures has proven successful. These have especially been developed for the utilisation with hose-diaphragm pumps and are likewise specified to handle conveyed fluids of particularly high corrosiveness.

To master extreme pumping temperatures of ≥ 200 °C, double hose-diaphragm pumps are provided with a convector face between wet and drive end. This intermediate piece contributes to efficient heat dissipation (see Fig. 2). Another option is the design with double redundant diaphragm, which means a combination of a pair of double hose-diaphragms and a flat diaphragm (see front page, Fig. 1).

Cooling or heating jacket for pumps and check valves
Some fluids require a minimum temperature to remain capable of flowing. If this temperature is undercut, such fluids become very viscous, solid or are even subject to sulphuring. In order to ensure that the conveyed fluid remains pumpable, the hose-diaphragm casings and optionally also the valve casings and connecting flanges are provided with a heating jacket. If steam is used for heating, proper condensate conduction must be ensured.

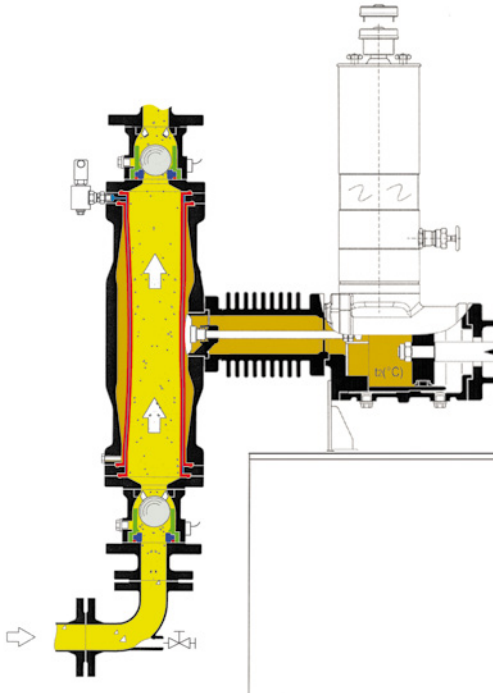

Fig. 2: MULTISAFE double hose-diaphragm pump with ribbed casing area (convector).

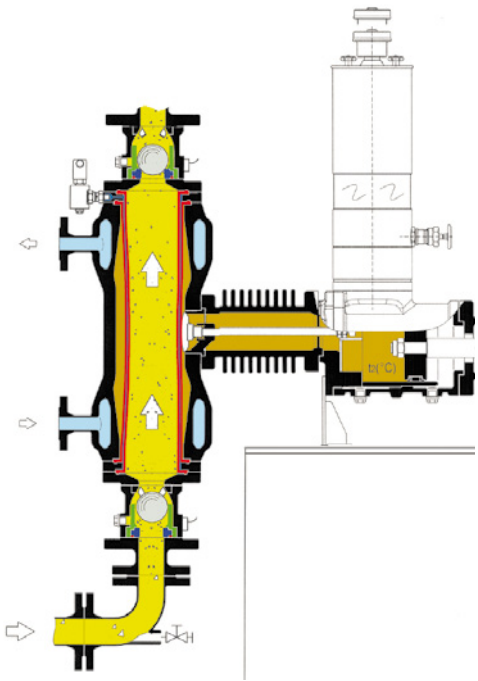

Fig. 3: MULTISAFE double hose-diaphragm pump with cooling/heating jacket and ribbed casing area (convector).

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