ELECTRO HYDRAULICALLY DRIVEN

DOUBLE MEMBRANE PUMPS

-)) 1.25 ltr / double stroke 100 bar
-)) 2.60 ltr / double stroke 40 bar
-)) 4.00 ltr / double stroke 40 bar

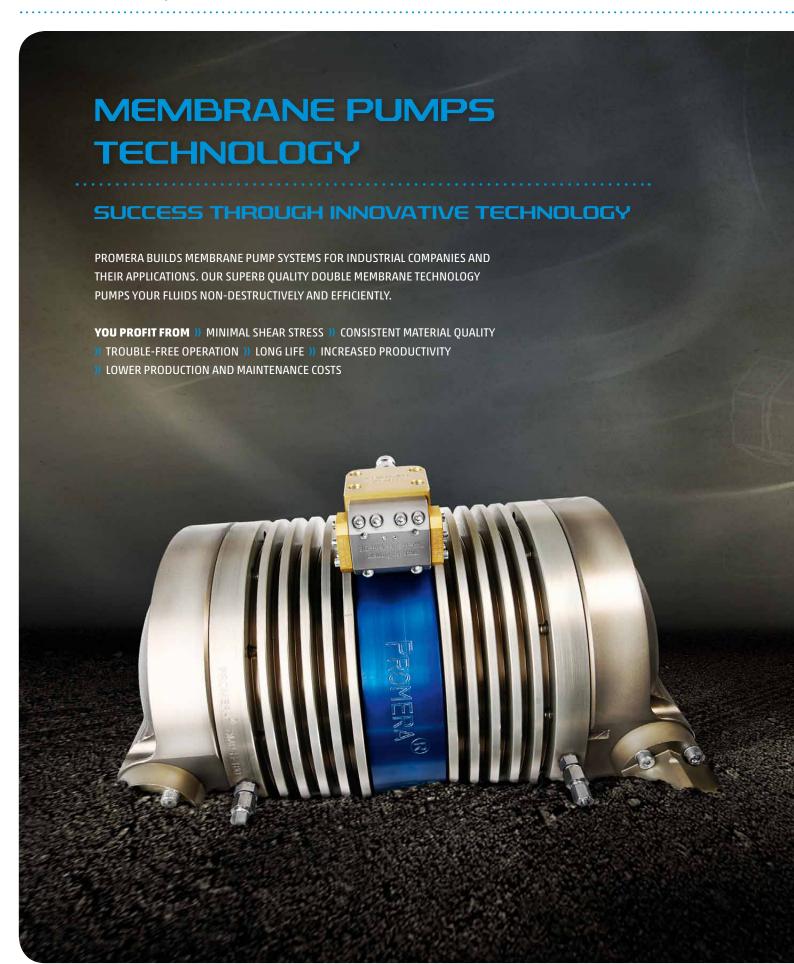




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FUNCTIONAL PRINCIPLE:

- An electro hydraulic drive unit drives a piston system
- The two double membranes (medium side made of PTFE) are coupled by means of a piston rod and moved by a hydraulic fluid with a minimal pressure differential load on the membranes of < 1 bar</p>

APPLICATION SECTORS:

-)) Automotive industry)) Automotive supplier industry
-)) Plastics industry)) Chemical industry
-)) Rubber industry

PATENTED DOUBLE MEMBRANE:



-)) PTFE-coated membrane
-)) Leakage ring
-)) Hydraulic membrane

HYDRAULIC DRIVE:



-)) Drive unit
-)) Electric motor
-)) Pressure cylinder & manometer

The overflowing of hydraulic fluid into the conveyor medium is prevented by the use of double membranes with leakage control. A membrane burst is displayed

APPLICATION RAW MATERIALS:

-)) Solid and metallic coatings)) UV-cured coatings
-)) Liquid isocyanate)) Silica sand filled polyurethane
-)) Solvent-free and solvent-based adhesives

APPLICATION AREAS:

-)) Paint supply systems)) Material supply systems
-)) Supply pumps for closed circuits
-)) Supply pumps for batch operations

PROPERTIES:

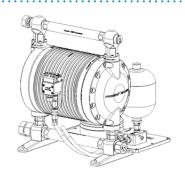
-)) Sparing, shear-free and non-destructive pumping of fluids
-)) Stepless pressure control possible
-)) Large pumping capacity per double stroke
-)) No dynamically loaded seals in the fluid
-)) Leak-free and low-pulsation pumping of fluids
- In- and outlet valves with ceramic balls in ceramic design, all media-pumping parts are hard-coated and PTFE laminated, thereby enabling the pumping of abrasive and filled media
- Neduced spare parts and inventory costs by using the same parts for the DMP-H pumps
- No destruction, e.g. of metallic paints, due to membrane technology
-)) Plug & Play: Easy installation only requires a 380 / 400 V 16 A 50 Hz (CEE 16A) connection
-)) Patented double membrane guarantees maximum operational reliability

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DOUBLE MEMBRANE PUMPS

SPECIFICATIONS

-)) 3 DIFFERENT PRESSURE RATIOS AVAILABLE
-)) PUMPING LOW VISCOUS TO VISCOUS MEDIA
-)) VISCOSITY RANGE UP TO 10,000 mPas
-)) PUMPING FLUIDS WITH CRITICAL EXTENDERS SUCH AS SILICA SAND, METALLIC PARTICLES, ETC.
-)) EXTREMELY LOW SHEAR STRESSES ON THE FLUIDS
-)) PUMPING ISOCYANATES AND UV-COATINGS



MODEL	1.2 ltr/DOUBLE STROKE	2.6 ltr/DOUBLE STROKE	4.0 ltr/DOUBLE STROKE
1. FLUID PUMPING SPECIFICATIONS			
Max. fluid outlet pressure	100 bar	40 bar	40 bar
Pumping capacity at 10 double strokes / min	12 ltr / min	26 ltr / min	40 ltr / min
Recommended double stroke rate	< 10 double strokes / min	< 10 double strokes / min	< 7 double strokes / min
Min. / max. fluid temperature	10 to 40°C	10 to 40°C	10 to 40°C
Max. fluid viscosity	10,000 mPas	10,000 mPas	10,000 mPas
Max. particle size	< 1mm	<1mm	< 1mm
2. ENERGY SUPPLY Electrical connection	1.5 kW / 380 V EX II 3G	1.5 kW / 380 V EX II 3G	1.5 kW / 380 V EX II 3G or 3.0 kW / 380 V EX II 3G
3. NOISE EMISSIONS			
Acoustic pressure	< 55 dBA	< 55 dBA	< 55 dBA
4. CONNECTIONS			
Material inlet opening	G 1 ½ " a	G 1 ½ ″ a	G 1 ½ ″ a
Material outlet opening	G 1 " i	G1″i	G 1 " i
5. WEIGHT AND MASS			
Weight without fluids	150 kg	150 kg	150 kg
Dimensions in mm (W x D x H)	660 x 550 x 880	660 x 550 x 880	660 x 550 x 880

PROMERA MEMBRANPUMPEN SYSTEME GMBH