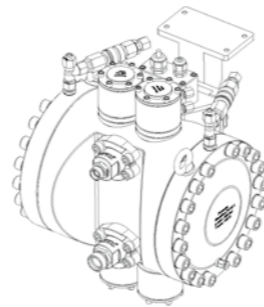


MEMBRANE DOSING SYSTEMS

SPECIFICATIONS

- » PROCESSING DEMANDING, REACTIVE COATING MATERIALS
- » DOSING ACCURACY 0.1 % OVER THE ENTIRE LIFE
- » SYSTEM AVAILABILITY > 98 % AND THEREFORE MAXIMUM PROCESS AND OPERATIONAL RELIABILITY
- » DOSING RATIOS OF 1:100 TO 100:1 IN 0.01 INCREMENTS
- » VISCOSITY RANGE UP TO 30 Mill mPas
- » WORKING PRESSURES OF 0 BAR TO 230 BAR



MODEL	LOW PRESSURE	HIGH PRESSURE
1. FLUID PUMPING SPECIFICATIONS		
Fluid outlet pressure	0 up to 20 bar	0 up to 230 bar
Dosing accuracy in %	< 0.1 %	< 0.1 %
Dosing ratio	1:100 up to 100:1	
Flow rate	20 up to 1600 cm ³ / min	
Media viscosity	From 0 up to 8 mill mPas	
Particle sizes	Up to 0.5 mm	
Pressure	Up to 230 bar	
Max. material temperature	130°C	
2. ENERGY SUPPLY		
Electrical connection	1.5 kW / 380 V	1.5 kW / 380 V
3. NOISE EMISSIONS		
Acoustic pressure	< 55 dBA	< 55 dBA
4. CONNECTIONS		
Material inlet opening	G ½" i	G 1" i
Material outlet opening	G ¼" / G ⅜" i	G ⅜" i
5. WEIGHT		
Weight without fluids	Approx. 1000 kg	Approx. 1000 kg
6. MASS		
Dimensions in mm (W x D x H)		
Dosing panel	1000 x 600 x 2200	1000 x 600 x 2200
Control cabinet	1200 x 600 x 2200	1200 x 600 x 2200
Axis case	1200 x 600 x 2200	1200 x 600 x 2200
Hydraulics	800 x 600 x 1600	800 x 600 x 1600

PROMERA ANLAGEN-SYSTEME GMBH

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PROMERA
 TECHNOLOGIEN FÜR FLUIDE

MEMBRANE DOSING SYSTEMS

» PRESSURE RANGE: 0 up to 230 bar



MEMBRANE DOSING TECHNOLOGY

HIGHLY ACCURATE AND SHEAR-FREE DOSING AND MIXING
 OF LIQUIDS TO VISCOUS AND ABRASIVE MEDIA



MEMBRANE DOSING SYSTEMS

» PRESSURE RANGE: 0 up to 230 bar

MEMBRANE DOSING TECHNOLOGY

SUCCESS THROUGH INNOVATIVE TECHNOLOGY

PROMERA DEVELOPS AND PRODUCES MEMBRANE DOSING SYSTEMS FOR INDUSTRIAL COMPANIES AND THEIR APPLICATIONS. OUR INTELLIGENT SYSTEM SOLUTIONS ARE PREDESTINED TO EFFICIENTLY IMPLEMENT YOUR HIGH-QUALITY AND COMPLEX COATING REQUIREMENTS.

YOU PROFIT FROM » MINIMAL SHEAR STRESS » CONSISTENT MATERIAL QUALITY
» TROUBLE-FREE OPERATION » LONG LIFE



Patented
PROMERA high pressure mixing head

FUNCTIONAL PRINCIPLE:

- » Conversion of high-precision hydraulic flow into a precisely identical fluid flow without any loss using double membrane technology
- » A reliable process for separating neutral fluid from processing fluid using the patented double membrane
- » Permanently high-precision dispensing quality and perfect conditions for the chemical mixing process

APPLICATION SECTORS:

- » Automotive industry » Automotive supplier industry
- » Plastics industry » Contract coaters
- » Pharmaceuticals » Chemical industry

APPLICATION RAW MATERIALS:

- » Solvent and watery systems » UV-cured coatings
- » Liquid isocyanate » Deionized water » Solvent-based adhesives » Solvent-free adhesives » Silica sand filled polyurethane » Pharmaceutical raw materials

EXACT DOSING:



- Dosing axis**
- » Resolution of whole system 1/16000 mm
 - » Ceramic coated plunger
 - » Ball screw
 - » Planetary gearbox
 - » Servomotor

OPTIMAL TEMPERATURE CONTROL:



- Flow heater**
- » Material borehole Ø 30 mm
 - » Ceramic coated body
 - » Up to 130°C
 - » Up to 230 bar
 - » Up to 3 kW output

PERFECT MIX:



- Mixing head**
- » Recirculation of all fluids before the mixing chamber
 - » As a result all fluids immediately in the right dosing ratio in the mixing chamber

APPLICATION AREAS:

- » 1, 2 or multi-component dosing
- » Discontinuous or continuous operation
- » Automatic or manual operation
- » Conventional or electrostatic application
- » High or low pressure applications
- » Pressure regulated or quantity controlled

PROPERTIES:

- » Dosing quality regardless of the properties of the processing media, e.g. viscosity, temperature fluctuations, solid content, abrasiveness, etc.
- » Guaranteed dosing and mixing quality provides the perfect conditions for the chemical reaction process
- » Significant savings in material costs as well as spare part and maintenance costs
- » Wear-free design and method of working
- » Pulsation-free operation