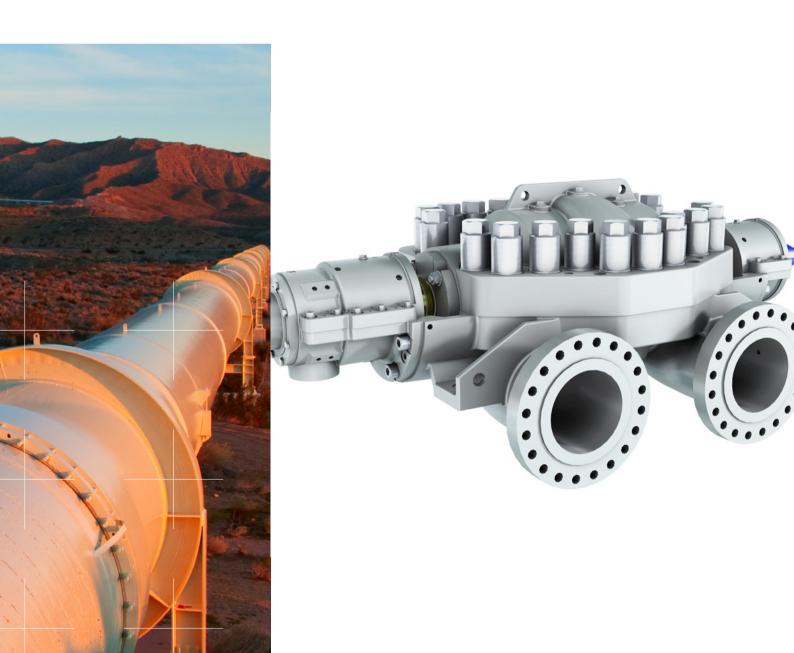


Flow Equipment

HPDM axially split between bearing single or multistage pump



Main industries and applications

HPDMs are tailor-made axially split between bearing single or multistage pumps extensively used to transport large volumes of liquid over long distances and high geodetic heights. They are mainly used in: HPDM pumps combine high efficiency, high reliability and sturdiness, are easy to install, operate and maintain and are famous for their longevity.

- Water transport
- Desalination
- Transport of crude oil
- Any other high flow, high head application







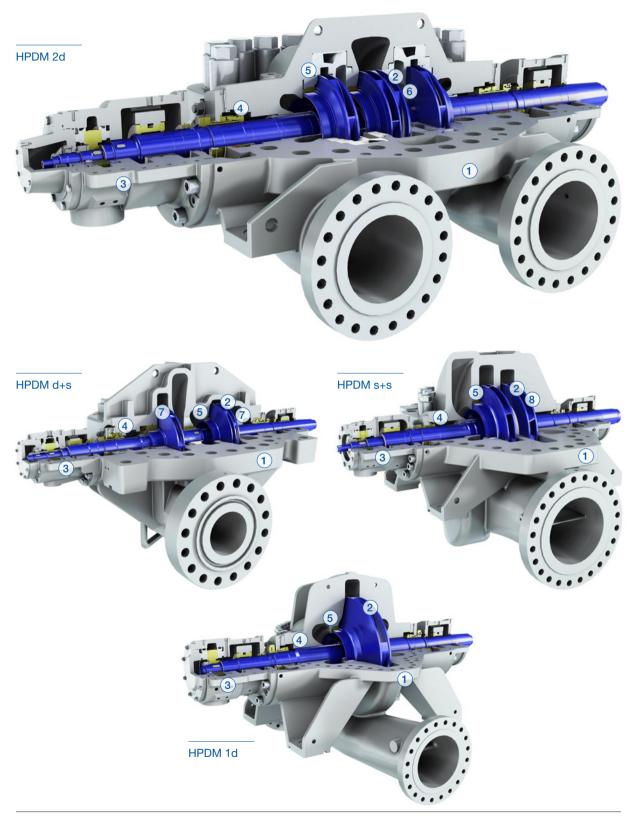




Features and benefits

Pump part	2d	d+s	S+S	1d
 Casing Weight optimized casing by FEA Casing integrity and tightness ensured by different split flange sealings like gasket or o-ring 		•		
 Hydraulics Wide choice of proven hydraulics High efficiency and optimum suction performance 				
 Bearings Various bearing options depending on different operation conditions and load: Anti-friction bearings (self-lubricated) Sleeve-ball bearings (self-lubricated) Sleeve / tilting-pad bearing (pressure lubricated or self-lubricated) 	•			
Shaft seals Mechanical seal is standard, gland packing is optional				
 Wear protection Renewable casing wear rings and integral impeller wear rings Renewable impeller wear rings as option 				
Twin suction impellers on first stage and double suction, staggered vane second stage impeller Assures low Net Positive Suction Head Required (NPSHR) and balance of axial thrust, low pressure pulsation Diffusers on first stage and double volute on second stage to balance radial thrust	•			
 Double suction, staggered vane first stage impeller, single suction second stage impeller Assures low NPSHR and low pressure pulsation Double volute on both stages to balance radial thrust and enable high efficiency Balance drum at Non-Driving End (NDE) to balance axial thrust and reduce pressure at the shaft seal Compact cross-overs 		•		
Two stage construction with back-to-back single suction impellers Cost effective and highly efficient for installations equipped with a booster pump Back-to-back arrangement to balance axial thrust Double volute to balance radial thrust and enable high efficiency Compact cross-overs				

Features and benefits



Specifications

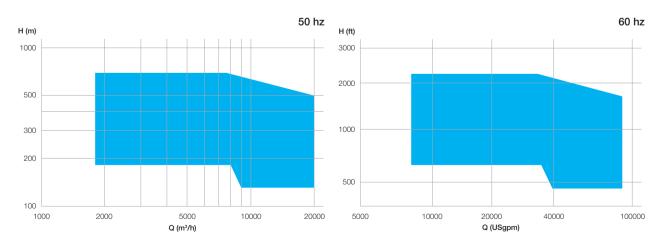
Materials

Pump part	Material	
Casing	Ductile iron, cast carbon steel, duplex, super duplex	
Impeller	Chrome steel, stainless steel, duplex, super duplex	
Shaft	Chrome steel, duplex, super duplex	
Stationary wear ring	Chrome steel, stainless steel, duplex, super duplex	

Operating data

50 Hz	60 Hz	
250 to 1'600 mm	10 to 64 in.	
1'000 to 20'000 m ³ /h	4'400 to 88'000 USgpm	
up to 700 m	up to 2'300 ft.	
up to 175 bar	up to 2'500 psi	
up to 150°C	up to 302°F	
	250 to 1'600 mm 1'000 to 20'000 m³/h up to 700 m up to 175 bar	

Performance range



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The Sulzer Flow Equipment division keeps your processes flowing. Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.

The Flow Equipment division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

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