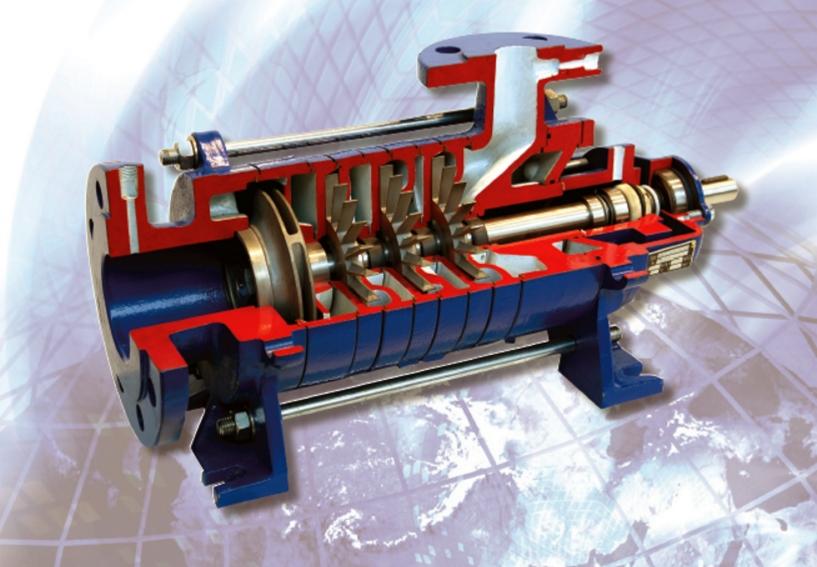
SERO** PumpSystems



Multi-Stage Pumps Designed for Critical Process Services













SRZS™

(Multifunction Side Channel Pump)

Engineered to meet demanding process conditions.

The SERO Advantage

Headquartered in Germany, SERO PumpSystems is the world's only exclusive manufacturer of side channel pumps. Since the issuance of their first side channel pump patent in 1929, SERO has continued to revolutionize the industrial pump industry. Specializing in individually configured pumping systems, SERO has consistently been on the leading edge of side channel pump design and technology.

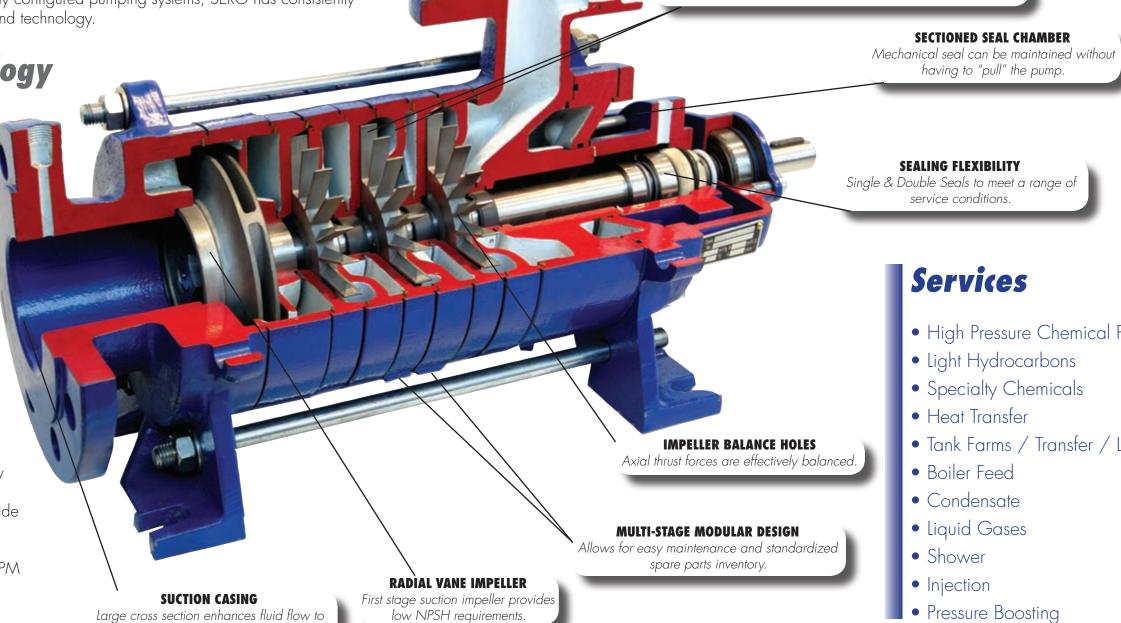
Side Channel Pump Technology

Side channel designs fill the hydraulic performance void between positive displacement pumps and centrifugal pumps. Fully open "star" impellers interact with the side channel casing creating an intense transfer of energy to the pumped liquid or liquid / gas mixture. The corresponding pressure increase (pump head) equals 5 to 10 times the amount generated by a similar size centrifugal pump at the same RPM. Additionally, the centrifugal effect of the impeller combined with the unique SERO internal flow patterns, allow our pumps to effectively handle fluids with gas entrainment of up to 50% and also be self-priming. All this in one compact package!

SERO Model SRZS **Specialty Pumps Engineered for a Wide Range of Industrial Services**

Model SRZS is a proven state-of-the-art multi-stage, radially split segmented pump that combines the functionality of a low NPSH first stage impeller with the performance of a side channel design. The SRZS features include:

- Exceptional Differential Pressures Developed at 1750 RPM
- Hydraulic Flexibility Low Flows with High Head
- Steep Performance Curves for Precise System Control
- Ability to Pump Vapor Laden (up to 50%) Process Fluids
- Low NPSH Requirements to Prevent Cavitation
- Self-priming
- Multiple Sealing Options
- Modular Construction with Standardized Parts
- Field Interchangeability with Existing Units
- "Crafted In Germany" for Increased Reliability and Lowest Cost of Ownership



large "eye" suction impeller.

Services

SEALING FLEXIBILITY

service conditions.

OPEN "STAR" IMPELLER AND SIDE CHANNEL CASING

Provides high differential pressures with effective gas separation.

- High Pressure Chemical Process
- Light Hydrocarbons

SECTIONED SEAL CHAMBER

having to "pull" the pump.

- Specialty Chemicals
- Heat Transfer
- Tank Farms / Transfer / Loading
- Boiler Feed
- Condensate
- Liquid Gases
- Shower
- Injection
- Pressure Boostina



SERO Side Channel Pumps

Engineering Expertise - German Quality - Reliability

Designed for the Future



SRZS Engineering Details

110	220	330	440	550	660
		1 TO 8			
11/2 (40)	21/2 (65)	21/2 (65)	3 (90)	4 (100)	4 (100)
3/4 (20)	11/4 (32)	11/4 (32)	11/2 (40)	2 (50)	21/2 (65)
1750					
580 (40)					
6 - 12 (1.4-2.9)	13 - 24 (2.9-5.4)	26 - 40 (5.8-9)	47 - 64 (10.6-14.5)	76 - 106 (17.3-24.1)	130 - 186 (29-42.2)
100-740 (30-225)	140-1080 (40-330)	110-790 (35-240)	105-800 (32-250)	130-1000 (40-300)	160-1150 (50-350)
-40° - 430° (-40° - 220°)					
1050 (230)					
50%					
	1½ (40) 3/4 (20) 6 - 12 (1.4-2.9) 100-740	1½ (40) 2½ (65) ¾ (20) 1¼ (32) 6-12 13-24 (2.9-5.4) 100-740 (40-330)	1 TO 8 1½ (40) 2½ (65) 2½ (65) ¾ (20) 1¼ (32) 1¼ (32) 1750 580 (40) 6-12 (1.4-2.9) (2.9-5.4) (5.8-9) 100-740 (40-330) (35-240) -40° - 430° (-40° -430° (-40° -430° (-230)	1 TO 8 1½ (40) 2½ (65) 2½ (65) 3 (80) ¾ (20) 1¼ (32) 1¼ (32) 1½ (40) 1750 580 (40) 6-12 (1.4-2.9) (2.9-5.4) (5.8-9) (10.6-14.5) 100-740 (40-330) (35-240) (32-250) -40° -430° (-40° - 220°) 1050 (230)	1 TO 8 1½ (40) 2½ (65) 2½ (65) 3 (80) 4 (100) ¾ (20) 1¼ (32) 1¼ (32) 1½ (40) 2 (50) 1750 580 (40) 6-12 (1.4-2.9) (2.9-5.4) (5.8-9) (10.6-14.5) (17.3-24.1) 100-740 (40-330) (35-240) (32-250) (40-300) -40° - 430° (-40° - 220°)

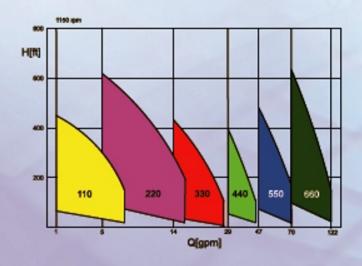
DESIGN OPTIONS

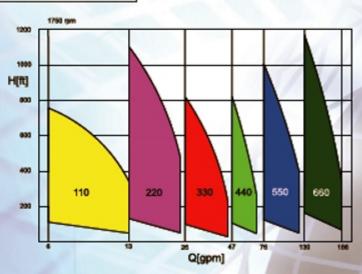
Sealing Flexibility:

- Single Mechanical Seal - Unbalanced, Balanced. Available Quench Feature
- Double Mechanical Seal - Unbalanced, Balanced

High Temperature Construction Features:

- Jacketed Seal Chamber with NPT Connections
- High Temp Bearings
- Modified Internal Clearances







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