

## Operating Data

	SRZSLPG	NHELPG		
Flow rates:	0,3 up to 35 m³/h	30 up to 170 m³/h		
Heads:	up to 350 m	up to 290 m		
Speed:	max. 1800 1/min	max. 3600 1/min		
Temperature:	-40 °C up to +60 °C	-40 °C up to +60 °C		
Suction height:	up to 4 m at 20 °C	-		
Rated pressure:	40 bar	40 bar		
Gas entrainment:	max. 50 %	max. 30%		
Max. motor:	55 KW	75 KW		
NPSH-pump:	0,4 up to 1,5 m	2 up to 7,7 m		

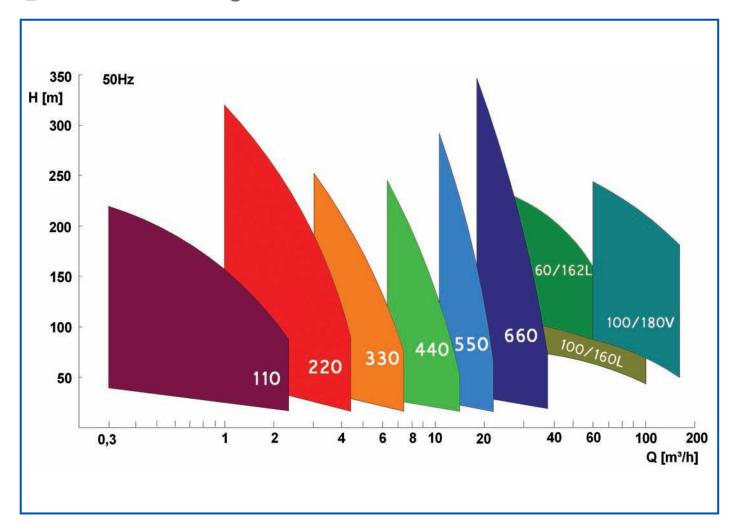
### Construction

	SRZSLPG	NHELPG	
Housing pressure:	Nominal pressure 40	Nominal pressure 40	
Socket position:	Suction casing: axial Discharge casing: radial	Suction casing: axial Discharge casing: radial	
Flanges:	As specified by DIN EN 1092 Suction side: Nominal diameters 40 – 100 mm Pressure side: Nominal diameters 20 – 65 mm	As specified by DIN EN 1092 Suction side: Nominal diameters 80 – 125 mm Pressure side: Nominal diameters 65 – 100 mm	
Bearings:	Pressure side: deep-grooved ball bearing Hydraulic: special carbon	Pressure side: deep-grooved ball bearing Suction side: bronze / special material Intermediate stages: bronze	
Direction of rotation:	Counterclockwise	Counterclockwise	
Shaft seal:	- Standard single acting / optional double- acting mechanical seal as specified by DIN 24960 Material: silicon carbide / graphitic carbon / viton < 40 bar, balanced - also available with magnetic coupling	- Single acting / optional double-acting mechanical seal as specified by DIN 24960  Material: graphitic carbon / silicon carbide / viton < 40 bar, balanced - also available with magnetic coupling	
Drive:	IEC-3-phase motors, IP 55, 4-pole	IEC-3-phase motors, IP 55, 2-pole	

## Design

SRZSLPG	NHELPG
Side channel pump, gas-entraining, self-	Centrifugal pump, gas-entraining, not self-
priming, in segmented construction, with open	priming, in segmented construction, with
unpressurized impellers, single-stage or multi-	unpressurized impellers in connection with
stage, with NPSH suction impeller.	stationary blades.

### **Performance Range**



# Areas of application for our liquefied gas pumps

- Loading and unloading tank cars (SERO empties containers leaving only a tiny residue)
- Carousel filling / bottling
- Vaporizer feeding
- LPG-tank stations / fuel-filling

# Our speciality: Pumping from underground tanks!

With our special SRZS/2 design, liquefied gas can be pumped with a maximum suction height of 4 m with suitable plant design.

### Advantages for you

- The steep Q-H characteristic curve controls steam pressure fluctuations
- The hydraulic pumping system feeds two-phase streams (liquid-gas mixtures with up to 50% gas) without difficulty at SERO SRZS...LPG
- The output is not interrupted during partial degassing
- SERO SRZS...LPG guarantee reliable pumping because of their extremely low NPSH values
- SERO **SRZS...LPG** reduce the pressure in the suction line they are **self-priming**

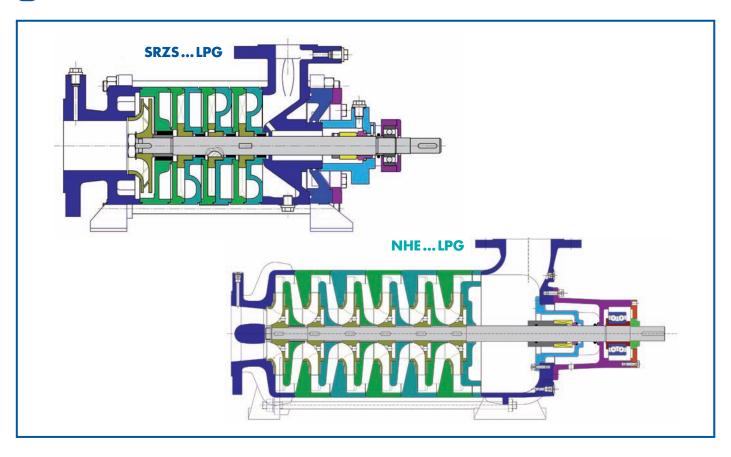
#### Media to be pumped:

Propane

Butane

Mixtures

### Sectional View



	Š				
	SRZSLPG	<b>3</b>	NHELP	G	
Suction casing:	Ductile iron (GGG 40.3)		Ductile iron (GGG 40.3)		
Discharge casing:	Ductile iron (GGG 40.3)		Ductile iron (GGG 40.3)		
Stage:	Ductile iron (GGG 40)		Ductile iron (GGG 40)		
Shaft:	HS Steel 1.4021		HS Steel 1.4057		
Impeller:	Bronze (CuZn40AI1)		NHE 6 NHE 100	Bronze (G-CuSn 12) Ductile iron (GGG 50) Bronze (G-CuSn 12) Ductile iron (GGG 40)	
Foot:	Ductile iron (GGG 40.3)		NHE 6 NHE 100	Cast iron (GG 25) Ductile iron (GGG 40.3)	
Mechanical seal:	SIC / Carbon / Viton		Carbon / SIC / Viton		

