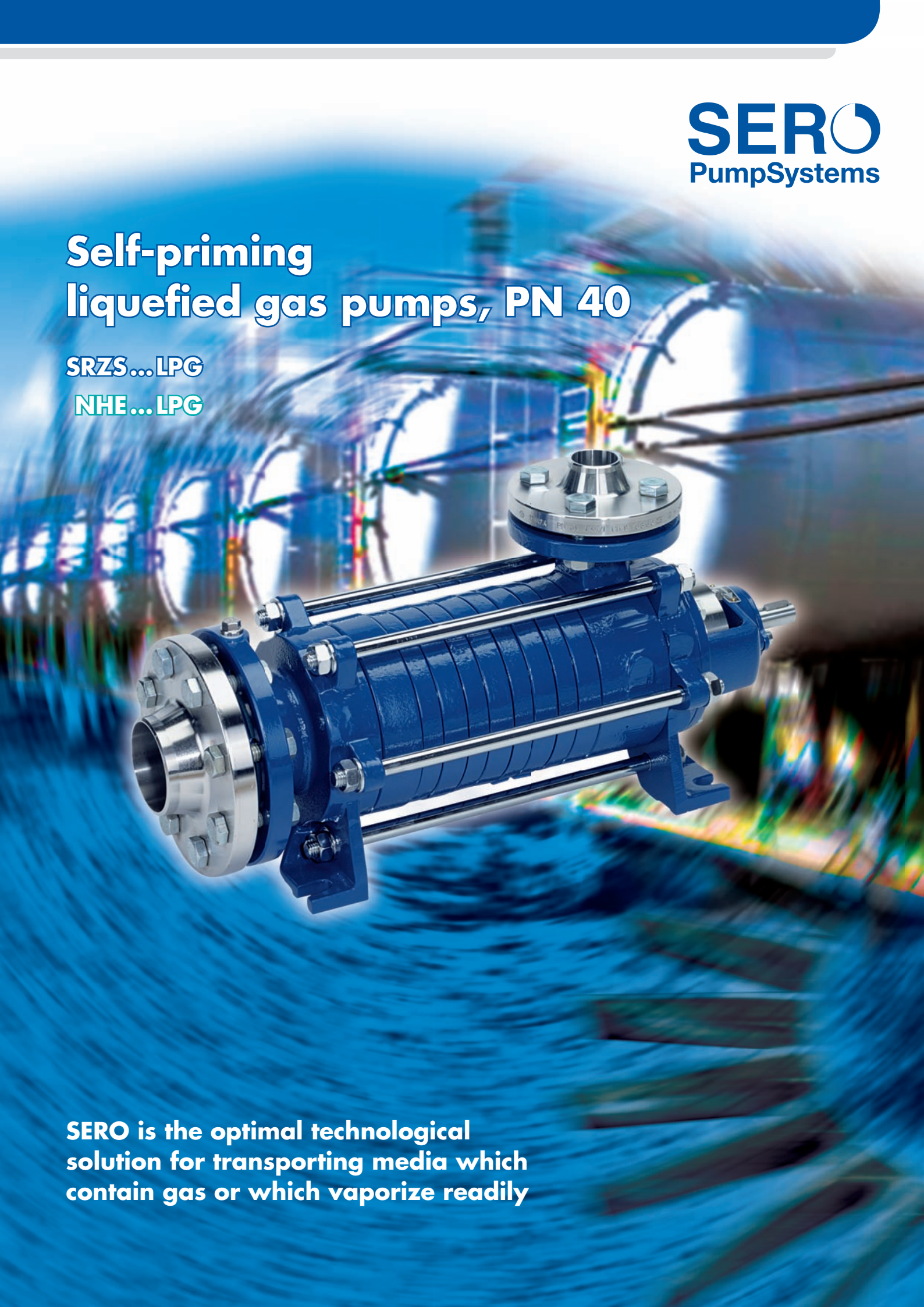
SERO
PumpSystems

Self-priming liquefied gas pumps, PN 40

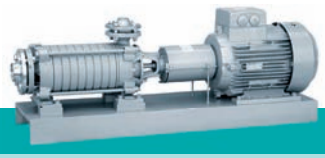
SRZS ... LPG

NHE ... LPG



SERO is the optimal technological solution for transporting media which contain gas or which vaporize readily

Operating Data



	SRZS ... LPG	NHE ... LPG
Flow rates:	0,3 up to 35 m^3/h	30 up to 170 m^3/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

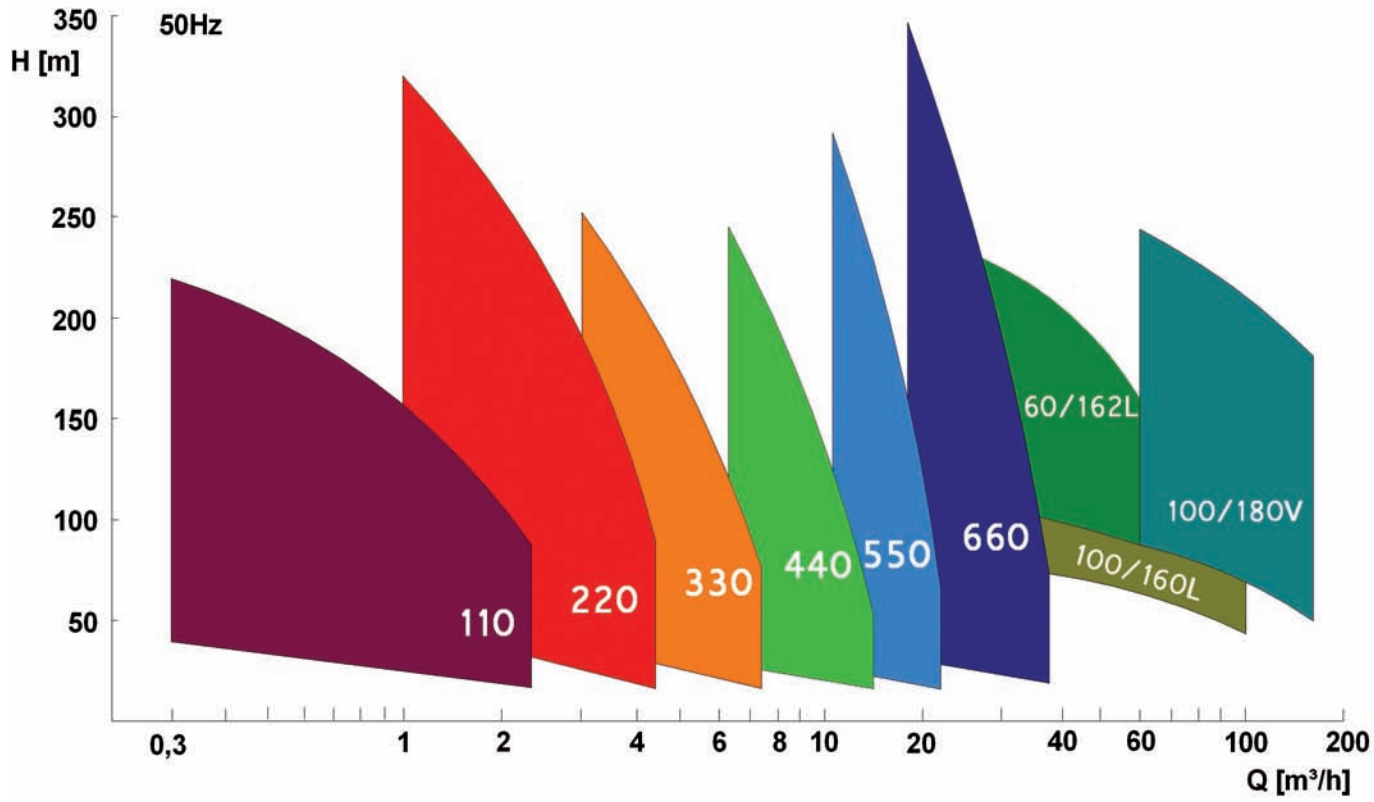
Construction

	SRZS ... LPG	NHE ... LPG
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

	SRZS ... LPG	NHE ... LPG
	Side channel pump, gas-entraining, self-priming, in segmented construction, with open unpressurized impellers, single-stage or multi-stage, with NPSH suction impeller.	Centrifugal pump, gas-entraining, not self-priming, in segmented construction, with unpressurized impellers in connection with 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.

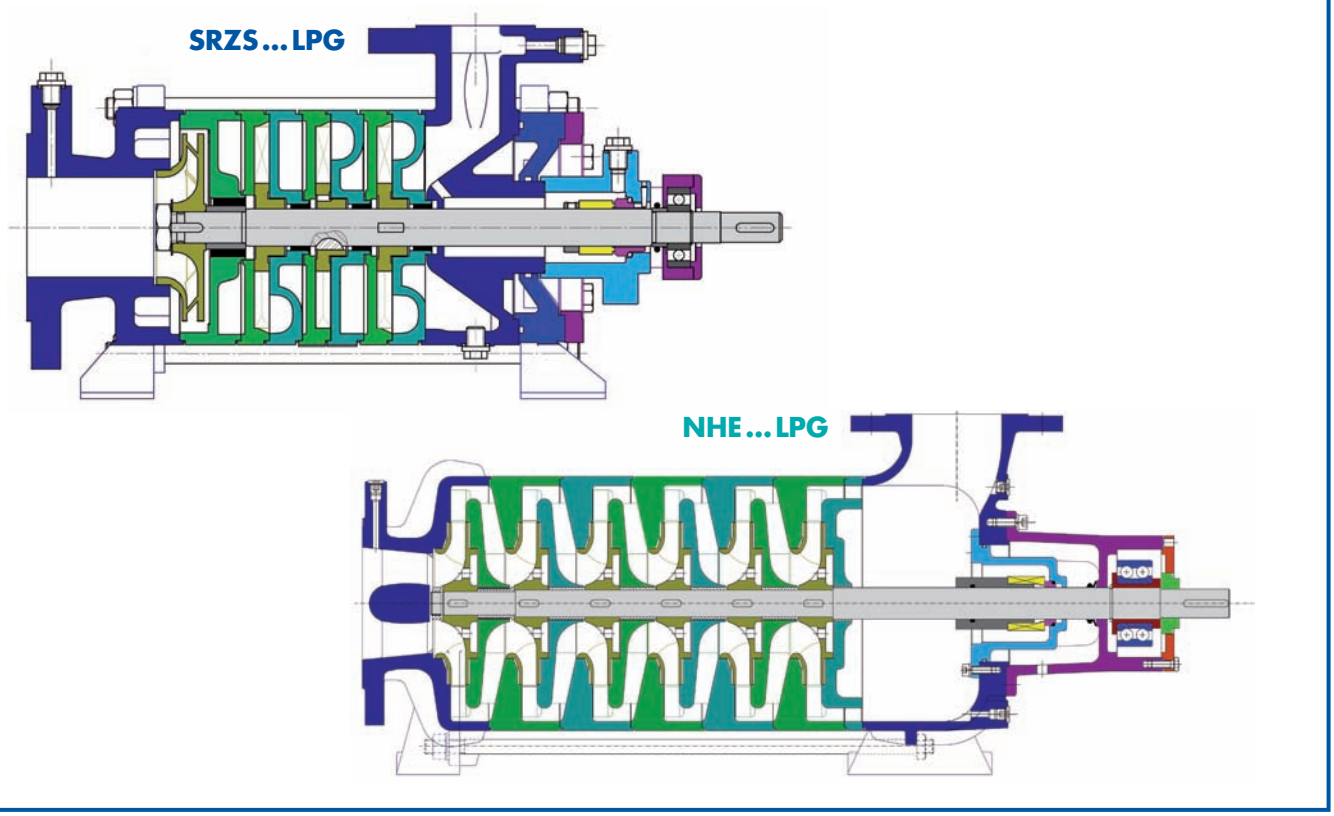
Advantages for you

- 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



Material Specification

	SRZS ... LPG	NHE ... LPG
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 (CuZn40Al1)	NHE 6 Bronze (G-CuSn 12) Ductile iron (GGG 50) NHE 100 Bronze (G-CuSn 12) Ductile iron (GGG 40)
Foot:	Ductile iron (GGG 40.3)	NHE 6 Cast iron (GG 25) NHE 100 Ductile iron (GGG 40.3)
Mechanical seal:	SIC / Carbon / Viton	Carbon / SIC / Viton

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SERO PumpSystems

SERO PumpSystems GmbH
Industriestraße 31
74909 Meckesheim
Germany

Phone: +49 6226 9201-0
Fax: +49 6226 9201-40

info@seroweb.de
sales@seroweb.de
service@seroweb.de
www.seroweb.de