

ST-R4S G10 E

Qmax 180 m³/h - 3000 l/min (793 USgpm) - Hmax 37 m (121 ft)

Code 10019608



Product Data

Suction port
Threaded - 4" ISO 228 (BSP)

Delivery port
Threaded - 4" ISO 228 (BSP)

Qmax
180 m³/h - 3000 l/min (793 USgpm)

Hmax
37 m (121 ft)

Solids handling
76 mm (3")

Weight
270 kg (595 lb)

Indicative picture of the product

Self-priming centrifugal trash pump

Characteristics

The ST-R self-priming centrifugal pumps are used in applications where a rapid priming capacity is required from demanding suction heights combined with the ability to transfer and manage polluted fluids, dirty and abrasives with suspended large diameter solids. The system is based on an inspectable pump casing which also acts as a water tank allowing a first quick priming without auxiliary systems, simplifying management of the system and reducing the time for maintenance.

The ST-R pumps are designed to facilitate unclogging operation in the field and ensure easy maintenance and high levels of reliability. The front inspection cover can be used to access all internal parts without disconnecting the pipes and without removing the pump from the installation.

Applications

Treatment:

pumping polluted corrosive wastewater containing sand, mud or solids in suspension; dosing neutralizing liquids; pumping out settled sludge.

Industry:

clean, dirty, sandy, muddy, neutral, alkaline; low viscous petroleum products; milk of lime, caustic soda; washing, cooling, recirculation, smoke scrubbing.

Agriculture:

surface irrigation; liquid manure oxygenation; transfer and spraying liquid manure or fertilizers; distribution of liquid animal feed; transfer of wine must; washing.

Benefits

1) Rapid self-priming

Without foot valve up to a height of 7.5 m (24.5 ft)

2) High resistance

To abrasive liquids which are turbid and sandy

3) Semi-open impeller

High thickness casting impact resistant

4) Wear plates

Easily replaceable ductile iron wear plates, front to the impeller and rear rubber lined

5) Easy maintenance

Removable front cover for direct access to all internal parts complete with 1/2" 6 bar air release valve

6) Two separate oil chambers

one for the mechanical seal and one for the bearings

Varisco S.r.l. has certified its Quality, Environment and Safety Management System in accordance with the requirements of the international standard ISO 9001-14001-45001, recognized by the Lloyd Register.

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PERFORMANCE CURVES

Test according to **UNI EN ISO 9906 standard - level 2B**

Priming time (1.450 rpm): **28 s (with a suction lift of 2 m)**

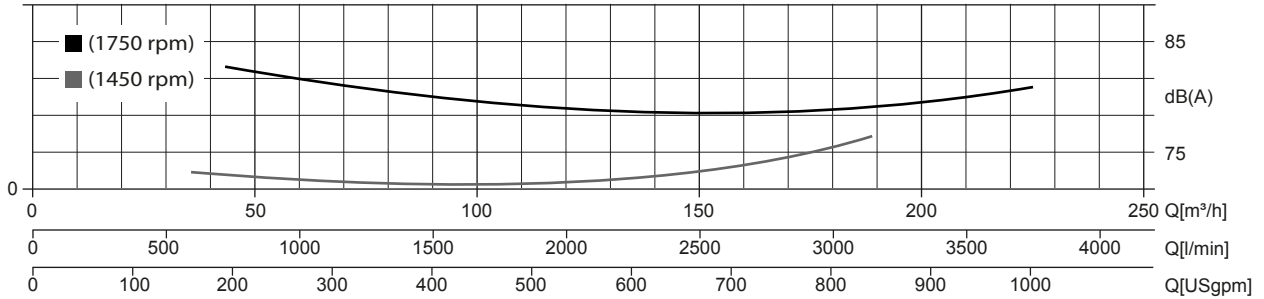
Test liquid: **clean water, density 1.000 kg/m³**

Installed power: **11 kW - 50 Hz**

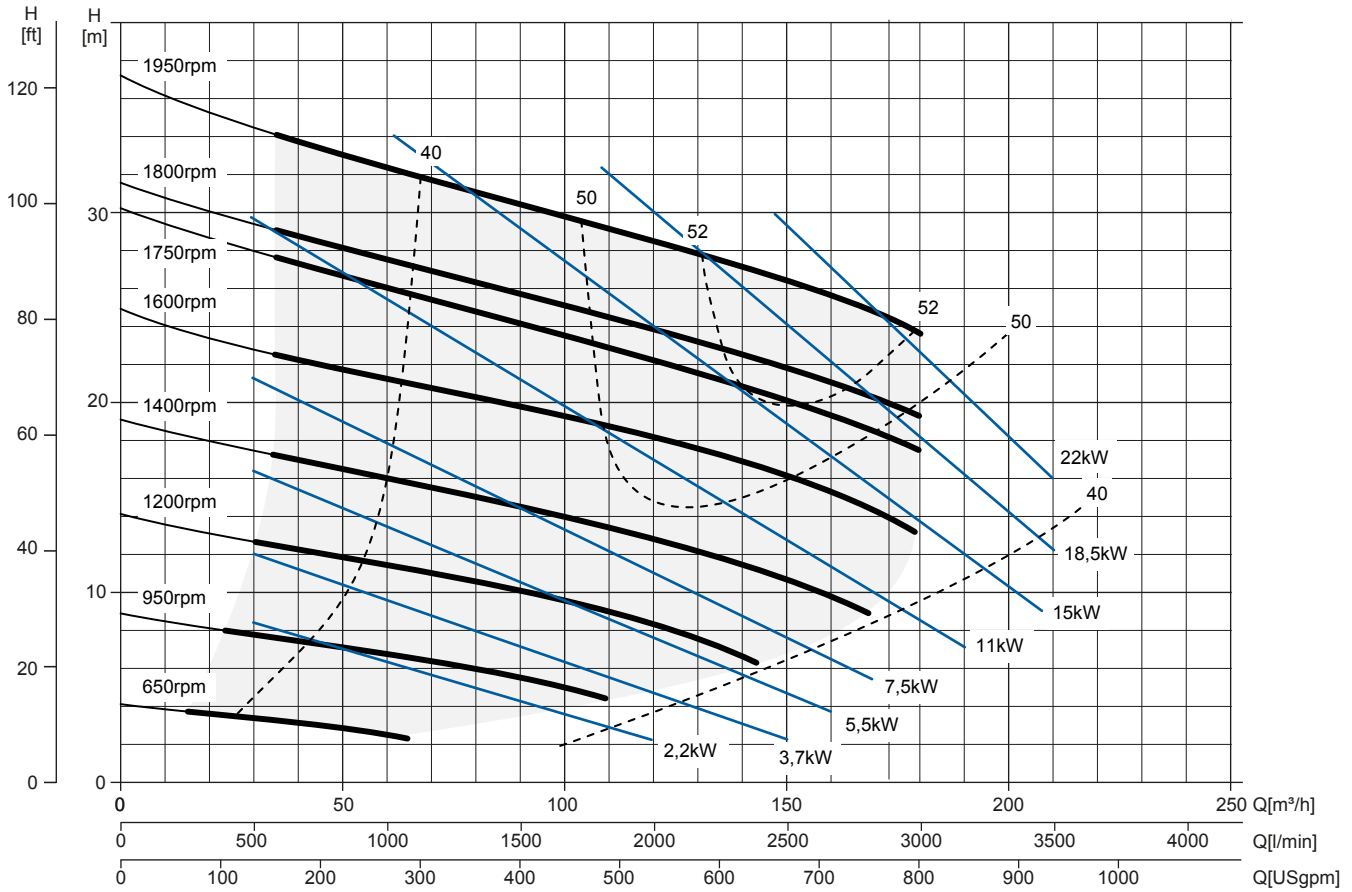
Spherical solids handling: **D.76 mm (3")**

Noise Curve

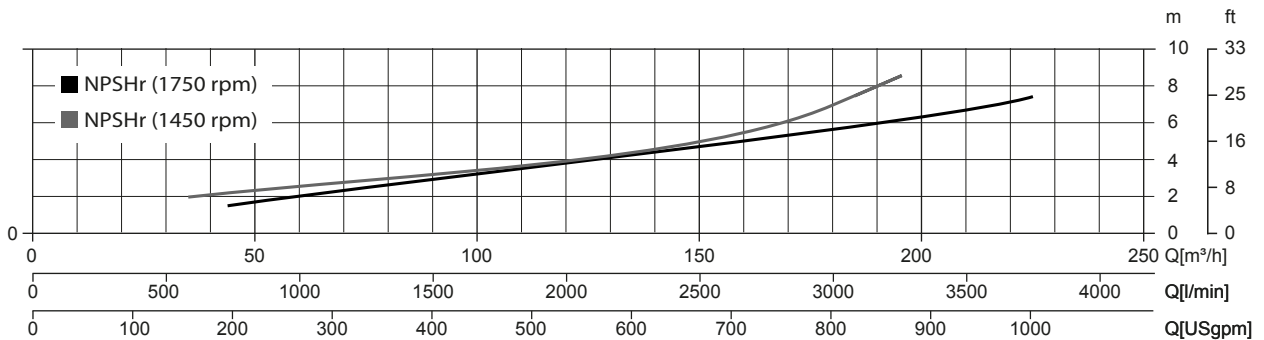
dB(A)=max noise level at 1 m



Multiple Speed Curve



NPSHr Curve



ST-R4S G10 E

TECHNICAL DATA

Pump

Pump model	ST-R4S G10 E
Qmax [1,950 rpm]	180 m³/h - 3000 l/min (793 USgpm)
Hmax [1,950 rpm]	37 m (121 ft)
Suction port	Threaded - 4" ISO 228 (BSP)
Delivery port	Threaded - 4" ISO 228 (BSP)
Impeller type	Semi-open, 2 vanes
Solids handling	76 mm (3")
Casing	Ductile iron EN 1563 EN-GJS-400
Impeller	Ductile iron EN 1563 EN-GJS-400
Wear plates	Rubber lined ductile iron EN 1563 EN-GJS-400
Non-return valve	Check-valve, NBR
Shaft	Steel 39NiCrMo3 EN 10083
Mechanical seal oil lubricated	Tungsten carbide / Tungsten carbide
Seal elastomers	FKM
Seal lubrication	Oil
Support	Oil lubricated spherical bearings

Arrangement

Model	Bare Shaft Support
Dimensions (L x W x H)	502 x 772 x 691 mm (20 x 30 x 27")
Coating	Polyurethane enamel, average thickness of 100 µm
Color	RAL 5010 blue (standard)
Height connection	495 mm (19")

Optionals

Flanged ports DN100 PN16 EN1092-2 Type B	cod. 10049169
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Weight

Net weight	270 kg (595 lb)
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Dimensions

