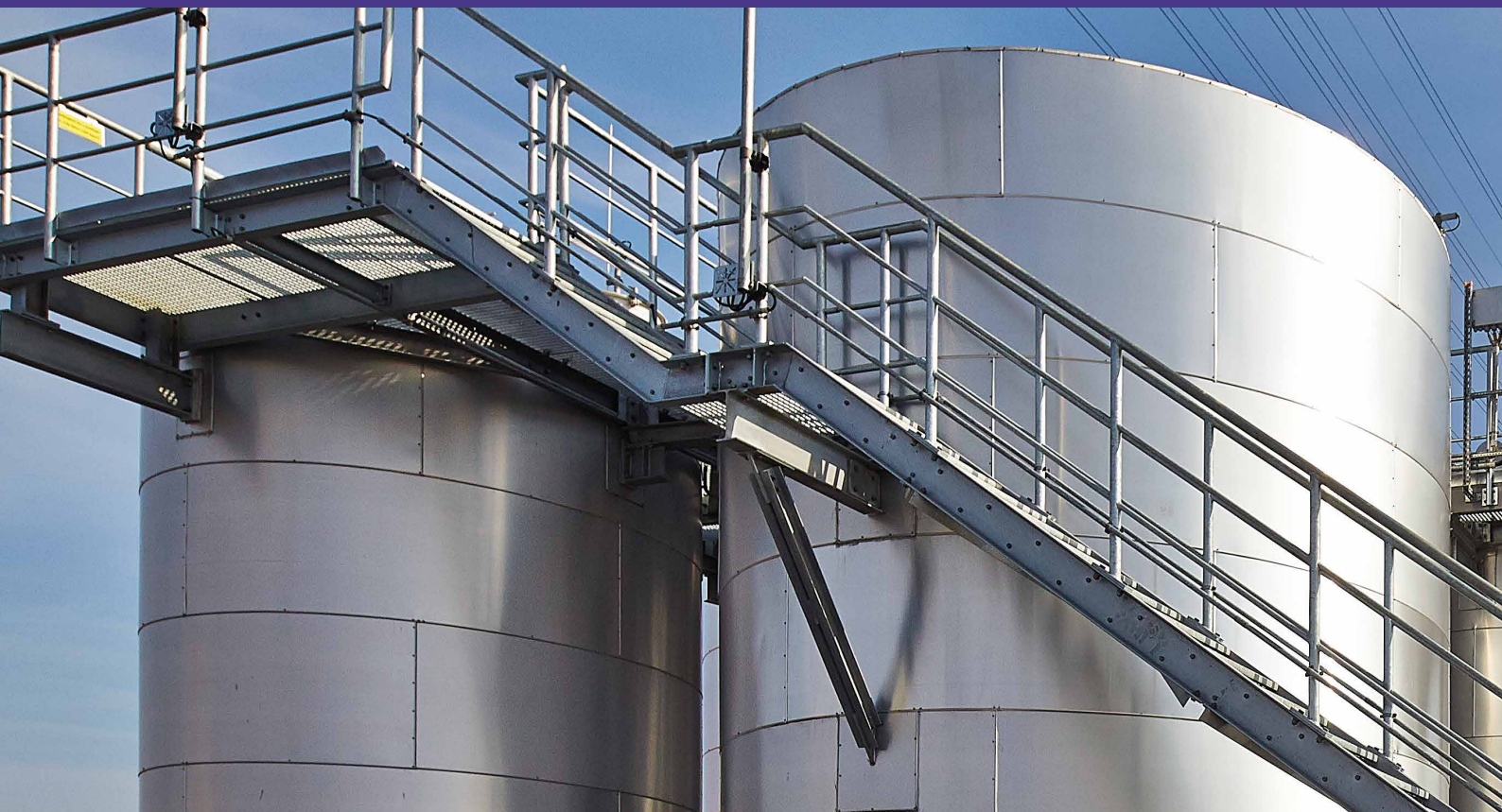


FNC

Horizontal ceramic pump





The FNC

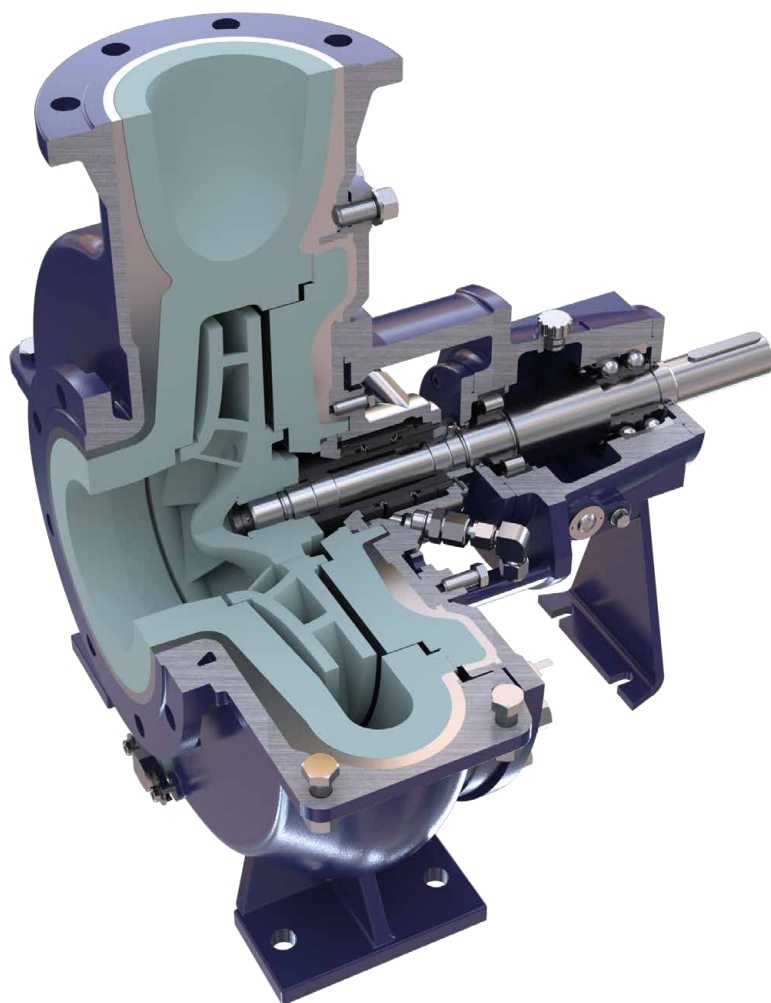
Particularly wear-resistant

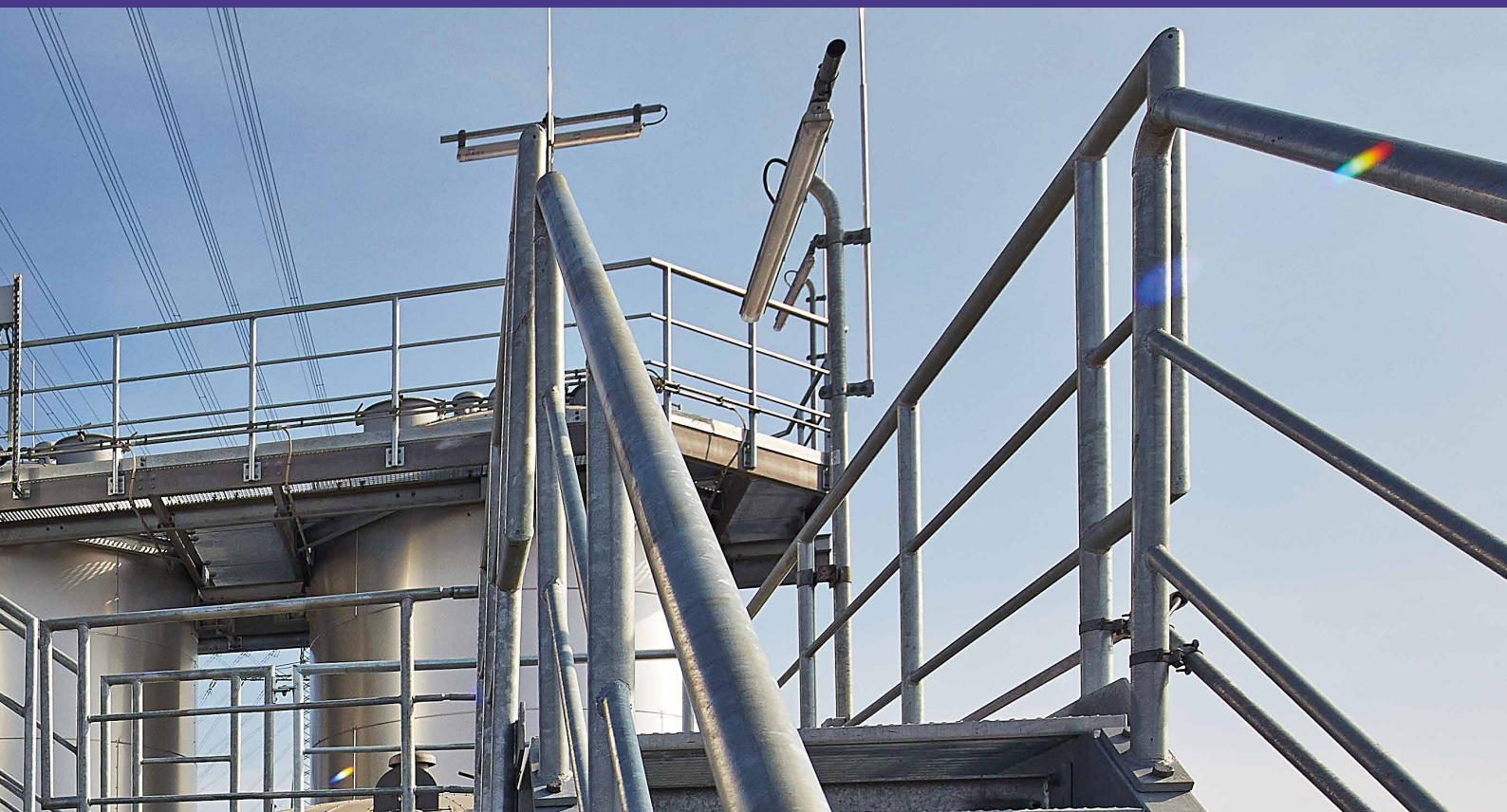
The wear resistance and general chemical resistance of the materials used are of great advantage for the applications in corrosive and abrasive media.

FNC pumps are used in the wide range of chemical processing and environmental technology for pumping chemically aggressive and abrasive liquids.

Design features

- Design: horizontal, single-stage
- Casing design: single volute casing
- Bearing lubrication: oil lubrication
- Installation versions:
 - Base frame welded or base plate cast
- Ambient temperature:
 - 20 °C to +60 °C (-4 °C to +140 °C)
- Solid content limit value: approx. 20 %





Options

- Drain of volute casing
- Temperature and vibration monitoring
- Equipment health monitoring with i-Alert®3
- Flange processing in line with international standards
- Thermosyphon system
- Storage and priming tank
- Pump accessories

Applications

- Chemical industry
- Solids-containing fluids
- Titanium dioxide

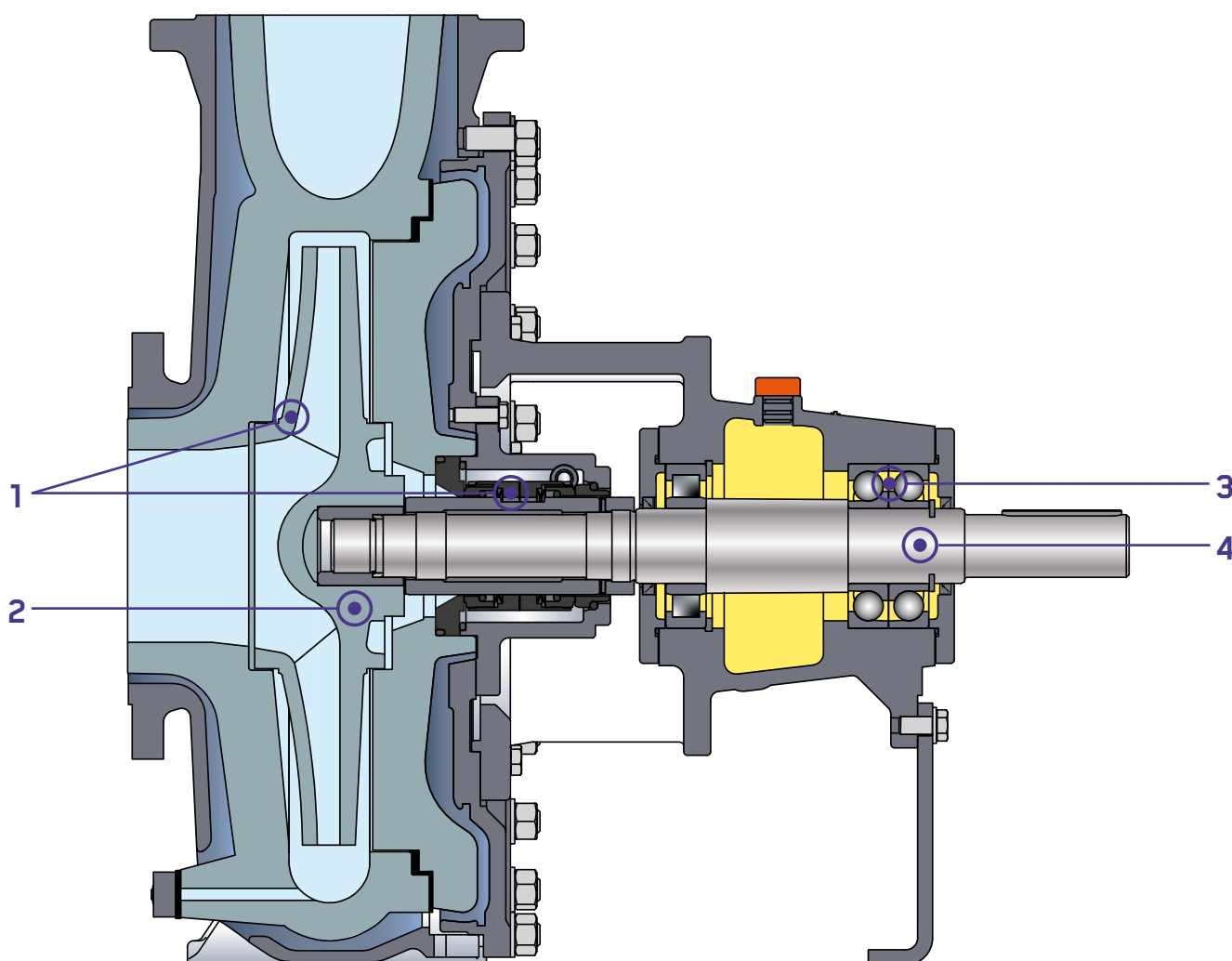
Technical data

FNC	
Size DN	32 to 150
$Q_{\max}$ m³/h (gpm)	600 (2642)
$H_{\max}$ m (ft)	90 (295)
Temperature °C (°F)	-40 to +120 (-40 to +248)
Standards	EN 22858, ISO 2858, ISO 5199
Closed impeller	Standard
Back pull out design	Standard
Seal	Mechanical seal

Ceramic material

A silicate ceramic material with very high wear resistance due to its high corundum content. It can be used up to 120 °C (248 °F). With the exception of strong, concentrated or hot alkalis, hydrofluoric acid and liquids containing fluoride, FRIKORUND can be used in all aqueous media. This material proved suitable e.g. in solid-containing pickling liquor with elevated temperature.

Main features



1

In the unlikely event of impeller or seal failure, these components can be replaced without dismantling pipework or drive, if a spacer type coupling is fitted. Extreme operating conditions can be handled by using a combination of different materials within one pump. This allows optimum solutions for arduous pumping applications.

2

Impeller of closed design and free-floating:

3

Robustly dimensioned shaft and bearings result in minimal shaft deflection:

4

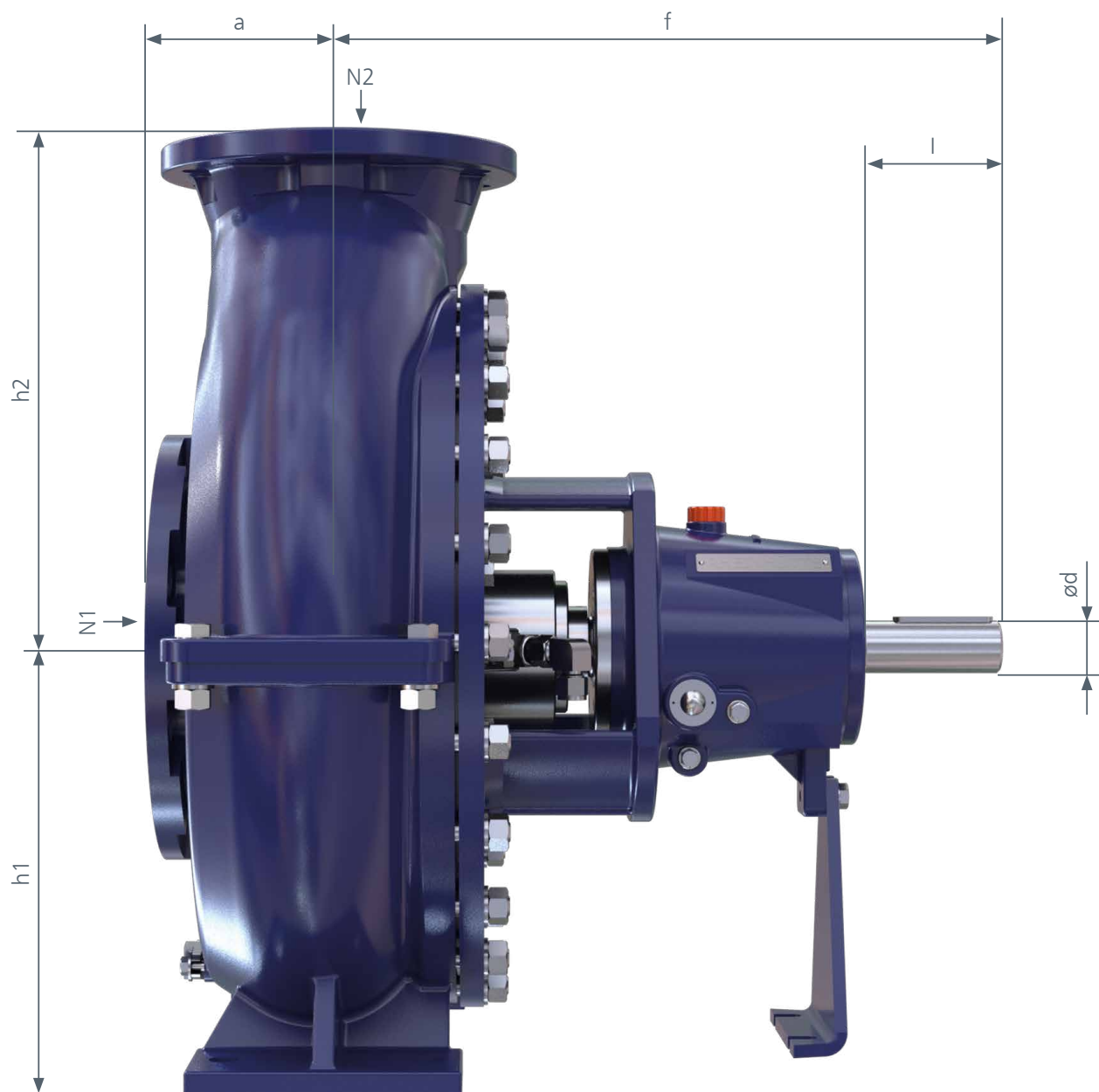
Shaft supported by oil-lubricated anti-friction bearings.

5

Relieve axial thrust through throttling sections and relief holes on the impeller.

The sectional drawings essentially correspond to the design. Subject to design changes.

Pumps & installation dimensions



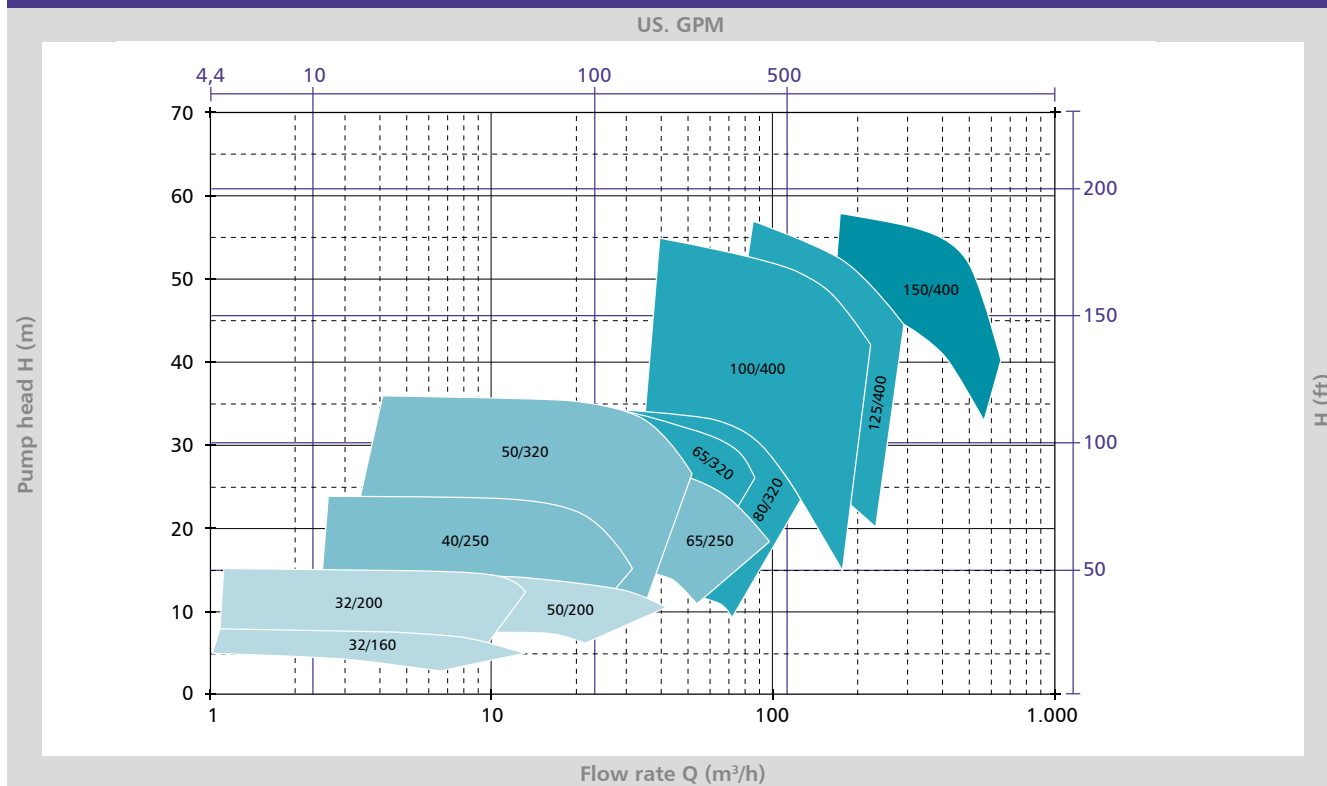
Size	BB	Pump dimensions				Base dimensions	Shaft end		Flange dimensions	
		a	f	h ₁	h ₂		ød	l	N1	N2
32/160	1	80	385	132	160	285	24	50	50	32
32/200	1	80	385	160	180	285	24	50	50	32
50/200	1	100	500	180	225	370	32	80	65	40
40/250	2	100	385	160	200	285	24	50	80	50
50/320	2	125	500	225	280	370	32	80	80	50
65/250	2	125	500	200	250	370	32	80	100	65
65/320	3	125	530	225	280	370	42	110	100	65
80/320	3	125	530	250	315	370	42	110	125	80
100/400	3	140	530	280	355	370	42	110	125	100
125/400	3	140	530	315	400	370	42	110	150	125
150/400	4	240	670	450	550	500	55	110	300	250

BB = Bearing bracket N2 = Pressure flange

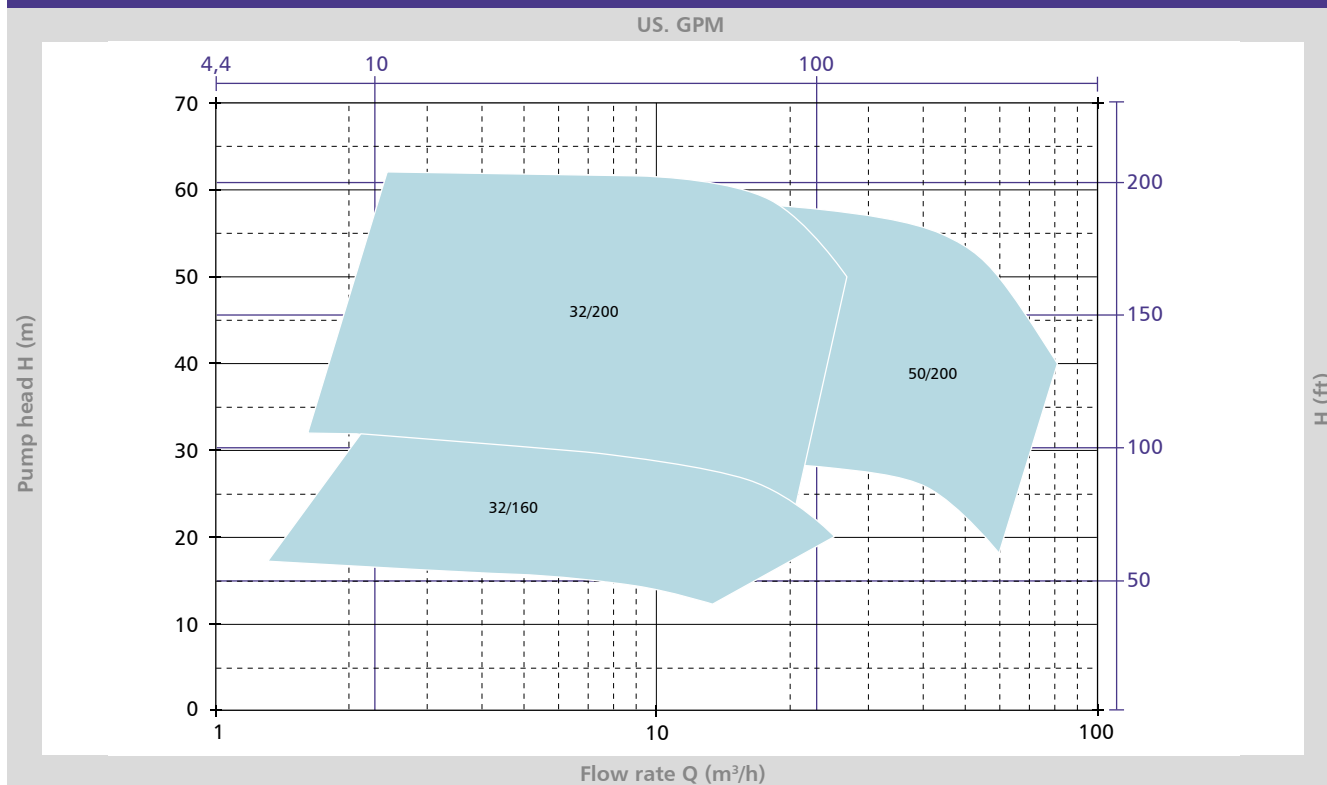
All dimensions are shown in millimetres.

Capacity ranges

FNC : 50 Hz $n = 1450 / \text{min}$



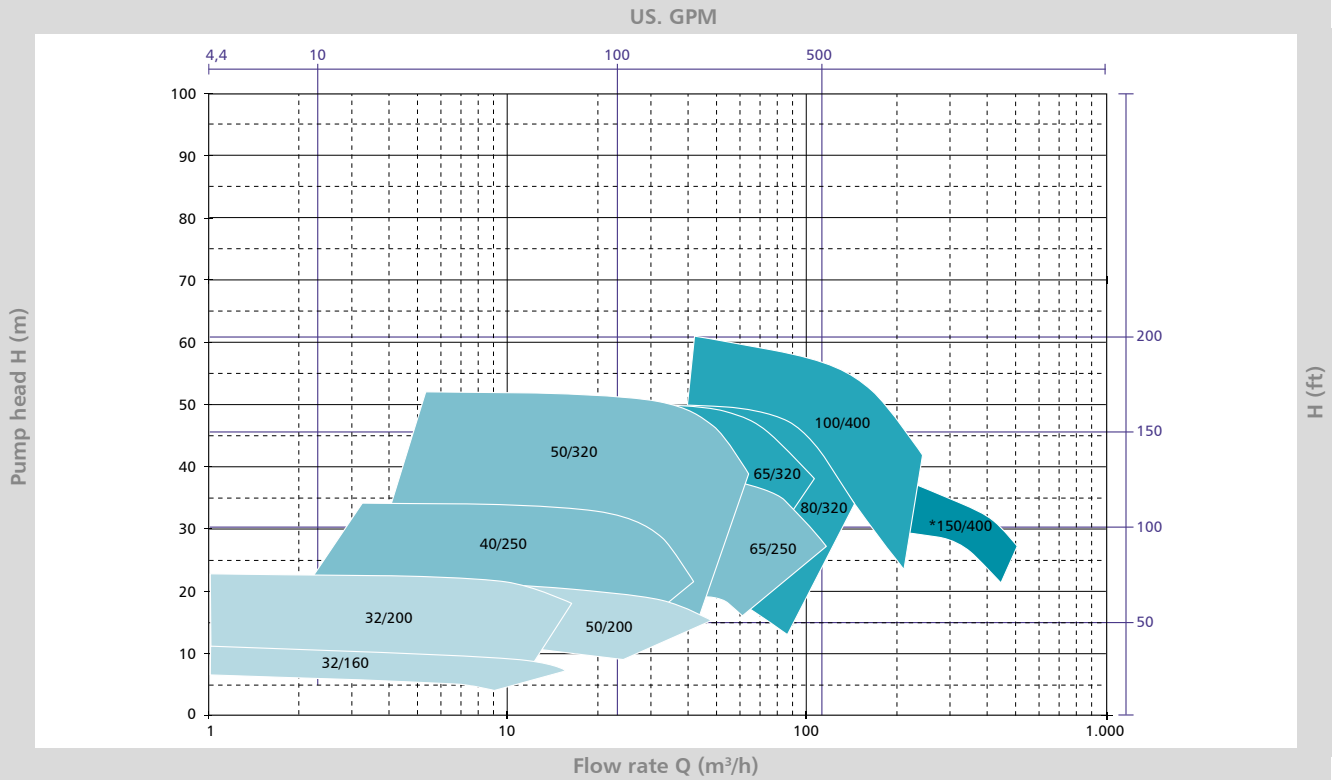
FNC: 50 Hz $n = 2900 / \text{min}$



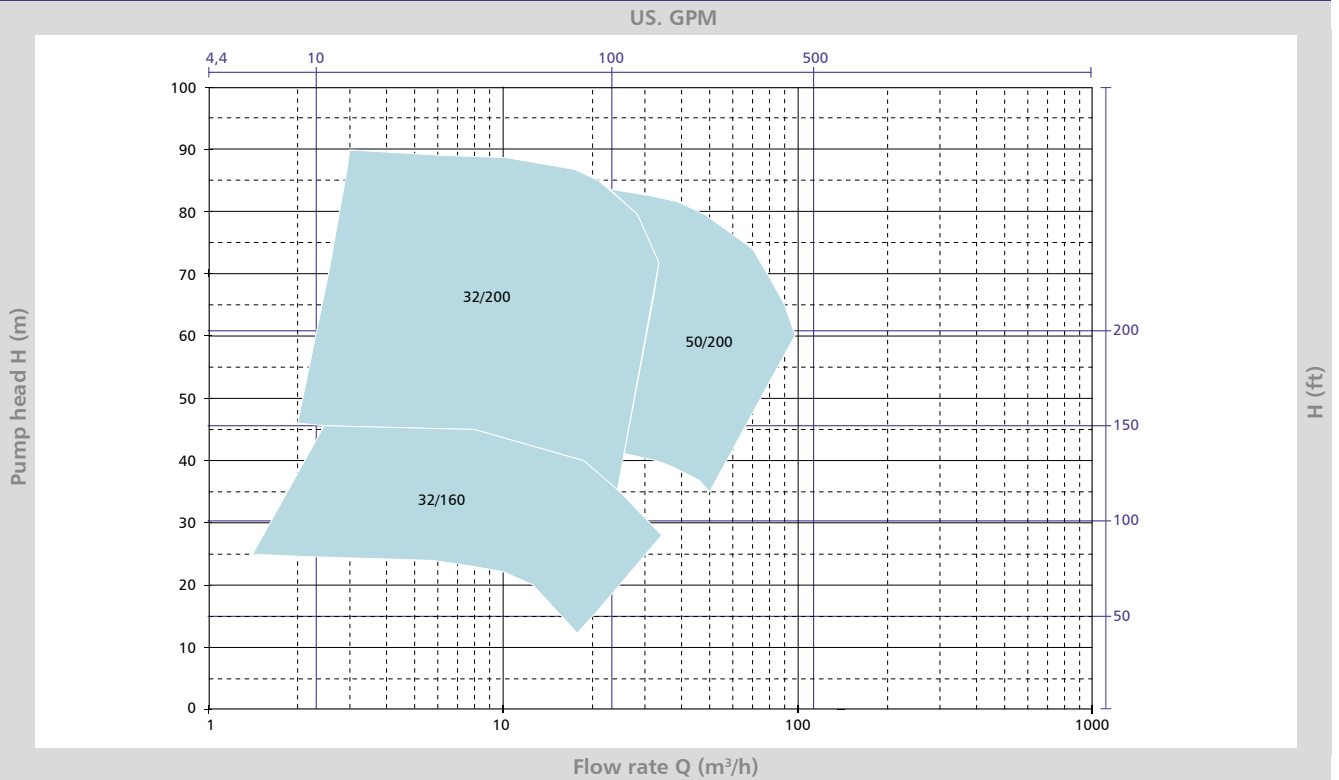
Bearing bracket 1 2 3 4

FNC : 60 Hz n = 1750 /min

*n = 1150 /min



FNC : 60 Hz n = 3500 /min





— An ITT Brand

ITT RHEINHÜTTE Pumpen GmbH
Rheingaustraße 96-98
D-65203 Wiesbaden
T +49 611 604-0
info@rheinhuette.com
www.rheinhuette.de