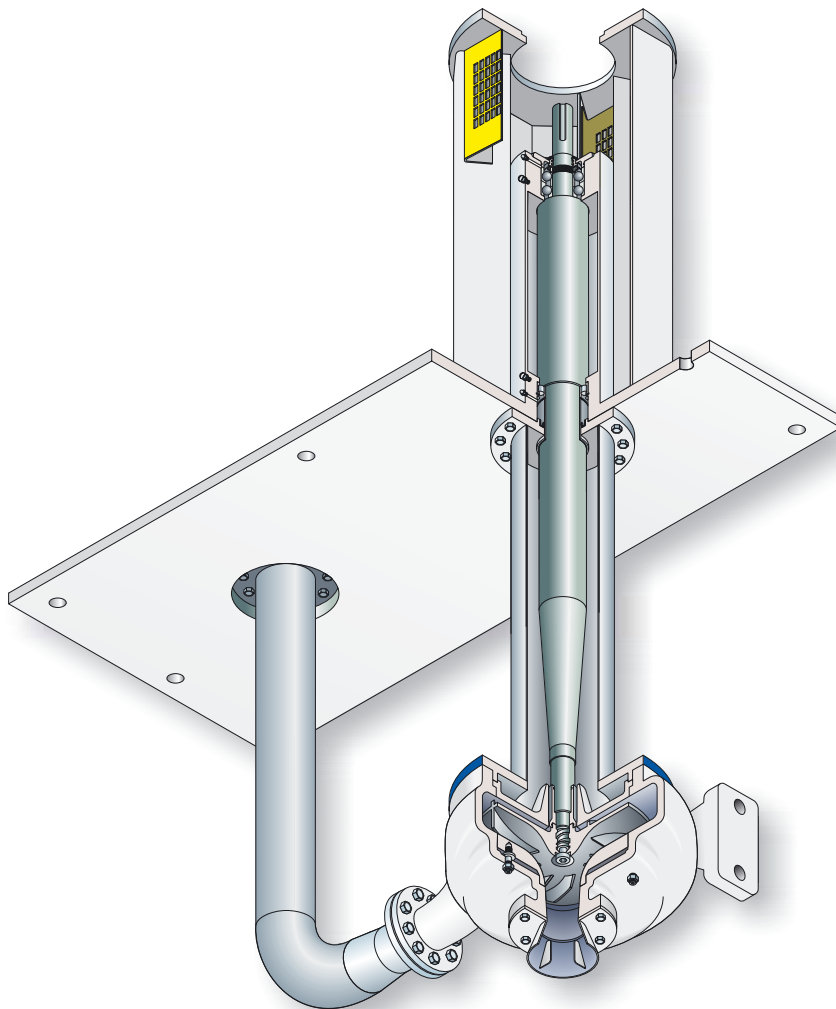


AHLSTAR™ NKP/WKP Cantilever Pumps



Sulzer Pumps – Striving to Serve You Better

For well over 135 years Sulzer Pumps has been providing innovative pumping solutions for a number of different industry segments. Today we are a leading global supplier of pumps to these targeted markets.

Through our commitment to understanding the customers' process and specific needs, we have consistently been at the leading edge of technical developments in providing pumping solutions. We strive to meet your application requirements through the use of state-of-the-art technology and advanced research & development facilities. In addition we offer the pump industry's most extensive network of Customer Service Centers to support and service our products.



A Reputation for Excellence

Sulzer Pumps has earned its reputation for providing advanced pumping solutions that meet the critical demands of our customers and business partners. Attention to detail and an insistence on quality are paramount to all phases of our operations.

Through having our own foundries, we are able to ensure optimum pump material selection for each particular application. Our 15 manufacturing plants are strategically located throughout the world, and our production processes are ISO 9001 and ISO 14001 certified.

Each and every pump is rigorously tested before shipment, and regardless of where in the world our pumps are made, the commitment to quality is unrelenting.



Design Features and Benefits

NKP/WKP Non-Clogging Vertical Cantilever Pumps are used in applications with liquids containing solids or abrasive slurries and when no support bearing inside the liquid is allowed.

Heavy-duty roller bearings together with non-floating shaft guarantee long bearing lifetime.

Length adjustment in the discharge pipe for proper mounting.

Sturdy one piece baseframe and motor support/bearing housing assures accurate alignment.

Sturdy one piece shaft guarantees straightness and easy assembly. Critical speed always above the max operating speed.

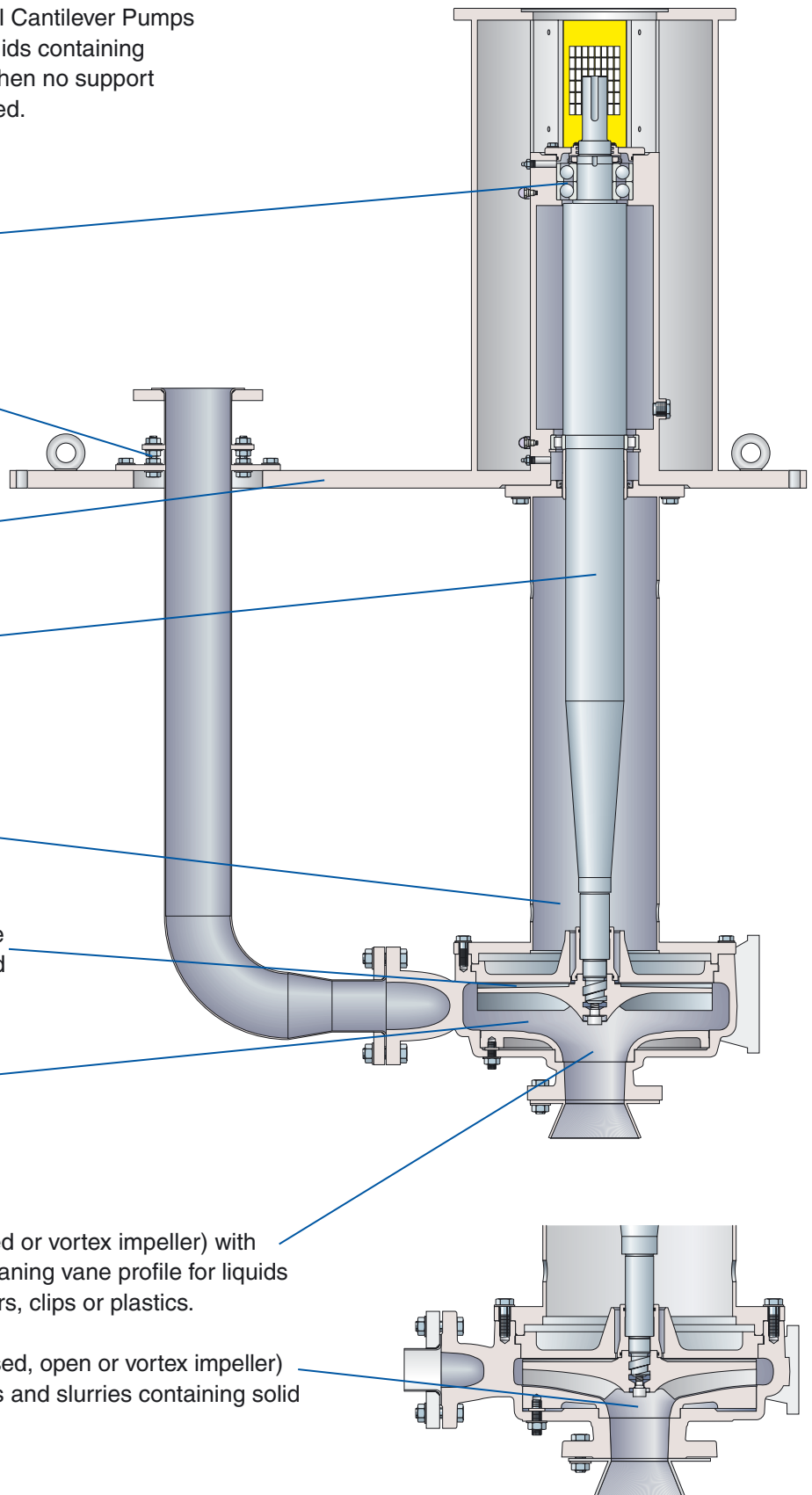
No support bearing inside the liquid and no shaft seal needed resulting in more reliable operation.

Non-plugging impeller back vane design prevents plugging caused by longer fibers or plastics.

Pressure reducing impeller front vanes (closed impeller) prevent fibers from entering the gap between the impeller and sideplate and reduce internal flow losses.

Non-clogging design NKP (closed or vortex impeller) with wide open channels and self-cleaning vane profile for liquids containing large solids, long fibers, clips or plastics.

Wear resistant design WKP (closed, open or vortex impeller) for abrasive and corrosive liquids and slurries containing solid particles.

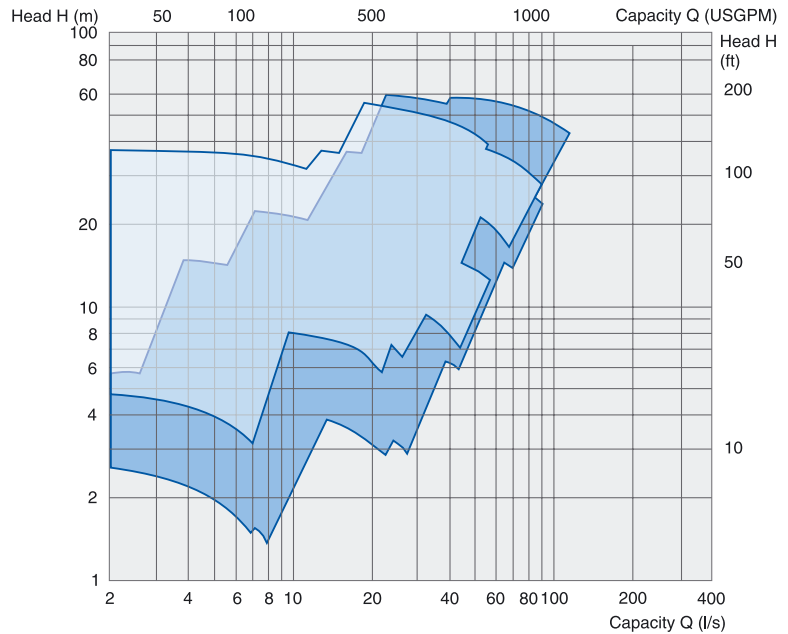


Performance Range

Technical data

Capacity max. 120 l/s
 Head max. 55 m
 Temperature max. 95°C
 Operating pressure max. 1 MPa
 (10 bar)

- NKP 50 Hz, closed impeller
- WKP 50 Hz, closed impeller



Materials

NKP Cantilever pumps

Main parts	Duplex stainless steel design	Cast iron design
Casing	Duplex SS ASTM A890 Grade 3A	Cast Iron ASTM A48 CL 35B
Impeller	Duplex SS ASTM A890 Grade 3A	Duplex SS ASTM A890 Grade 3A
Shaft	Duplex SS 2324	Duplex SS 2324
Sideplate	Duplex SS ASTM A890 Grade 3A	Duplex SS ASTM A890 Grade 3A
Casing cover	Duplex SS ASTM A890 Grade 3A	Cast Iron ASTM A48 CL 35B

WKP Cantilever pumps

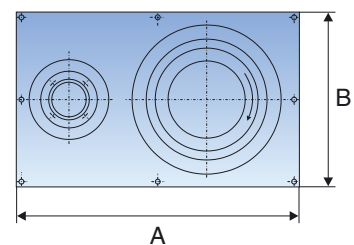
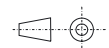
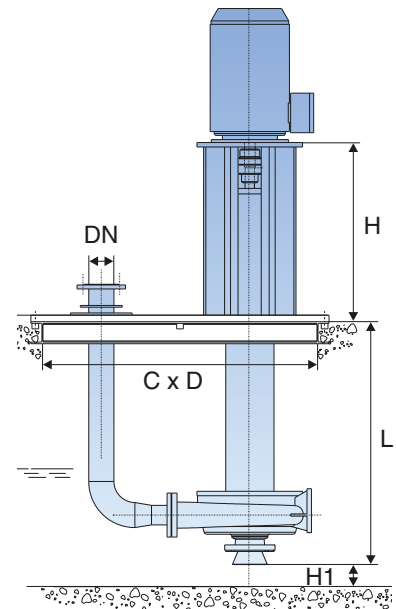
Main parts	Duplex stainless steel design	Chromium iron design
Casing	Duplex SS ASTM A890 Grade 3A	Chromium Iron A532 IIIA
Impeller	Duplex SS ASTM A890 Grade 3A	Chromium Iron A532 IIIA
Shaft	Duplex SS 2324	Duplex SS 2324
Sideplate	Duplex SS ASTM A890 Grade 3A	Chromium Iron A532 IIIA
Casing cover	Duplex SS ASTM A890 Grade 3A	Chromium Iron A532 IIIA

Other materials can be delivered on request.

Main Dimensions

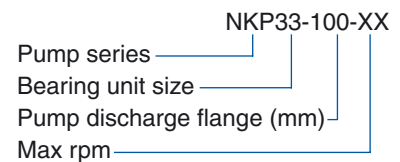
NKP Cantilever pumps

Pump	Main dimensions (mm)					
	DN	L	H (*)	H1 _{min}	AxB	CxD
NKP21-50-XX	80	1040	775	80	1055x520	955x420
		1540	785			
		2040	885			
NKP21-80-XX	100	1100	775	100	1055x520	955x420
		1600	785			
		2100	885			
NKP22-50-XX	80	1040	775	80	1055x520	955x420
		1540	785			
		2040	885			
NKP22-80-XX	100	1100	785	100	1055x520	955x420
		1600	785			
		2100	885			
NKP31-100-XX	150	1160	845	150	1355x680	1245x570
		1660	845			
		2160	945			
NKP32-80-XX	100	1110	845	100	1355x680	1245x570
		1610	845			
		2110	945			
NKP32-100-XX	150	1170	875	150	1355x680	1245x570
		1670	895			
		2170	975			
NKP33-80-XX	100	1110	875	100	1355x680	1245x570
		1610	895			
		2110	975			
NKP33-100-XX	150	1170	895	150	1355x680	1245x570
		1670	975			
		2170	975			



WKP Cantilever pumps

WKP22-50-XX	80	1030	775	80	1055x520	955x420
		1530	785			
		2030	885			
WKP23-50-XX	80	1030	785	80	1055x520	955x420
		1530	785			
		2030	885			
WKP32-80-XX	100	1085	845	100	1355x680	1245x570
		1585	845			
		2085	945			
WKP32-100-XX	150	1105	845	150	1355x680	1245x570
		1605	865			
		2105	945			
WKP32-125-XX	150	1125	845	150	1355x680	1245x570
		1625	865			
		2125	945			
WKP33-100-XX	150	1105	865	150	1355x680	1245x570
		1605	945			
		2105	945			



(* For max motor size.)



Check our worldwide offices at
www.sulzerpumps.com