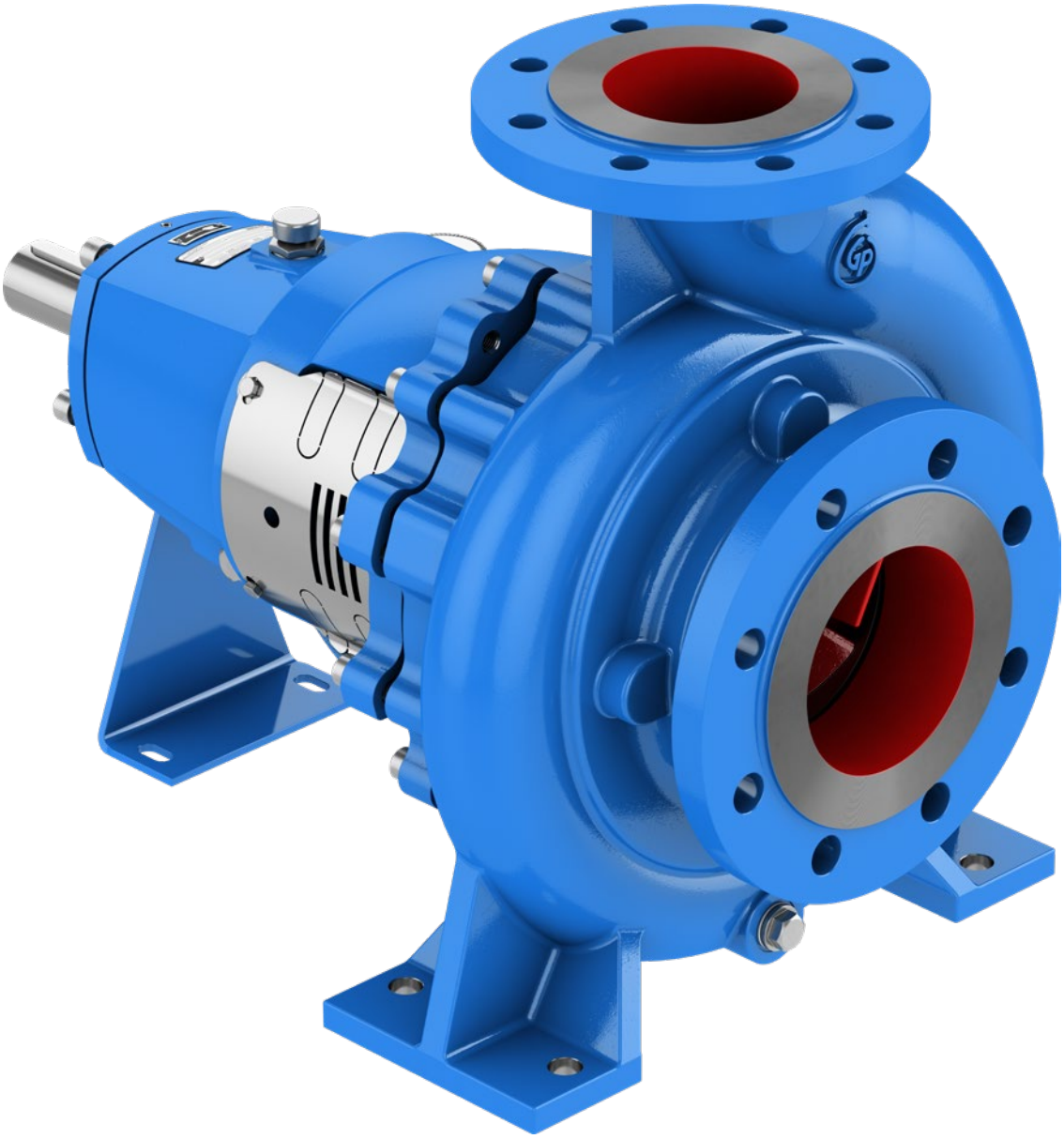
GOULDS PUMPS

An ITT Company

ICi

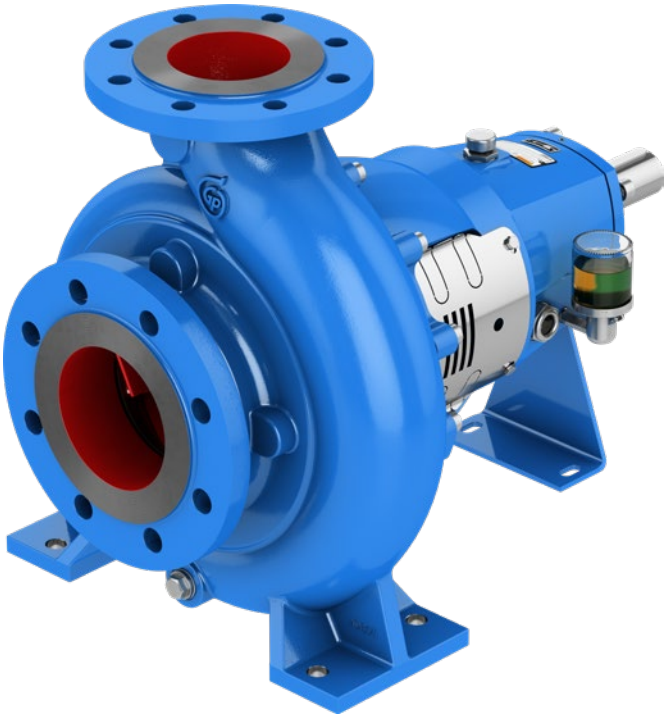
ISO 2858 / 5199 Chemical Process Pump



Goulds Reliability

ICi Chemical Process Pump for Expanded Hydraulic Coverage

The Goulds Pumps ICi Chemical Process Pump is designed in accordance with ISO 5199 and ISO 2858, delivering reliable performance across a wide range of chemical and industrial process applications. Engineered to expand hydraulic capability within the Goulds portfolio, the ICi provides greater flexibility in pump selection and improved alignment to system requirements. With expanded hydraulic coverage, enhanced configurability, and the proven reliability expected from Goulds Pumps, the ICi delivers a flexible, robust solution for modern process requirements.



The ICi pump range includes:

- 54 hydraulic sizes
- Flows up to 1600 m3/h
- Heads up to 160m
- Temperatures from -50°C to 200°C
- Pressures up to 16 bar

Building on proven hydraulic designs, the ICi extends coverage across a broader operating range, allowing for more precise matching of pump performance to application demands. This expanded capability reduces compromise in selection, helping to improve efficiency, reliability, and overall system performance.

Designed with a standardized and modular construction, the ICi minimizes component variation while maintaining flexibility across configurations. The result is simplified maintenance, reduced inventory requirements, and lower total cost of ownership. Features such as back pull-out construction, optimized impeller designs, and robust shaft and bearing arrangements support consistent operation in demanding environments.

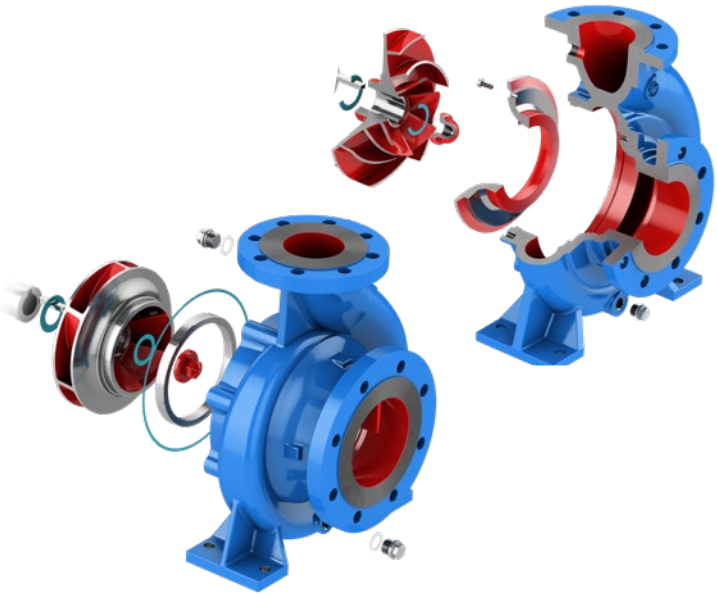
The ICi is available with closed or semi-open impeller configurations, enabling efficient operation in clean services as well as improved solids handling and wear resistance in more challenging applications. A wide range of sealing options, including single and double cartridge arrangements, supports adaptability across diverse process conditions.
Manufactured in a broad selection of materials, including ductile iron, stainless steel, duplex alloys, and specialty materials, the ICi is suited for corrosive and demanding media commonly found in chemical processing and industrial applications.

ICi Process Pump

Key Features

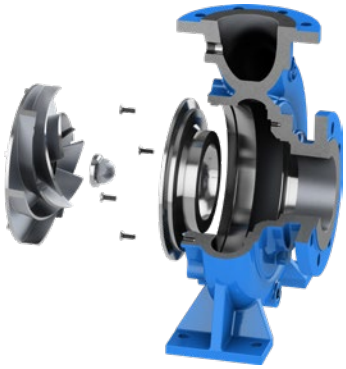
- Suitable for a wide range of duties
- Available in a wide variety of materials
- Only four bearing brackets for the whole range
- Mechanical seals according to EN 12756 (DIN 24960)
- Single and double cartridge seals
- Back pull out principle
- Seal chamber options including cylindrical bore and tapered bore

Closed or Semi-Open Impeller Options



The availability of closed and semi-open impeller configurations provides flexibility to match pump performance to specific application conditions. Closed impellers, with a replaceable casing wear ring, allow efficiency to be restored over time and are best suited for cleaner fluids and controlled environments. Semi-open designs are ideal for handling solids, stringy media, and less clean services where clogging and wear are more likely. This combination enables reliable operation across a wide range of process conditions while allowing users to select the most appropriate configuration based on fluid characteristics and maintenance preferences.

Replaceable Wear Plate

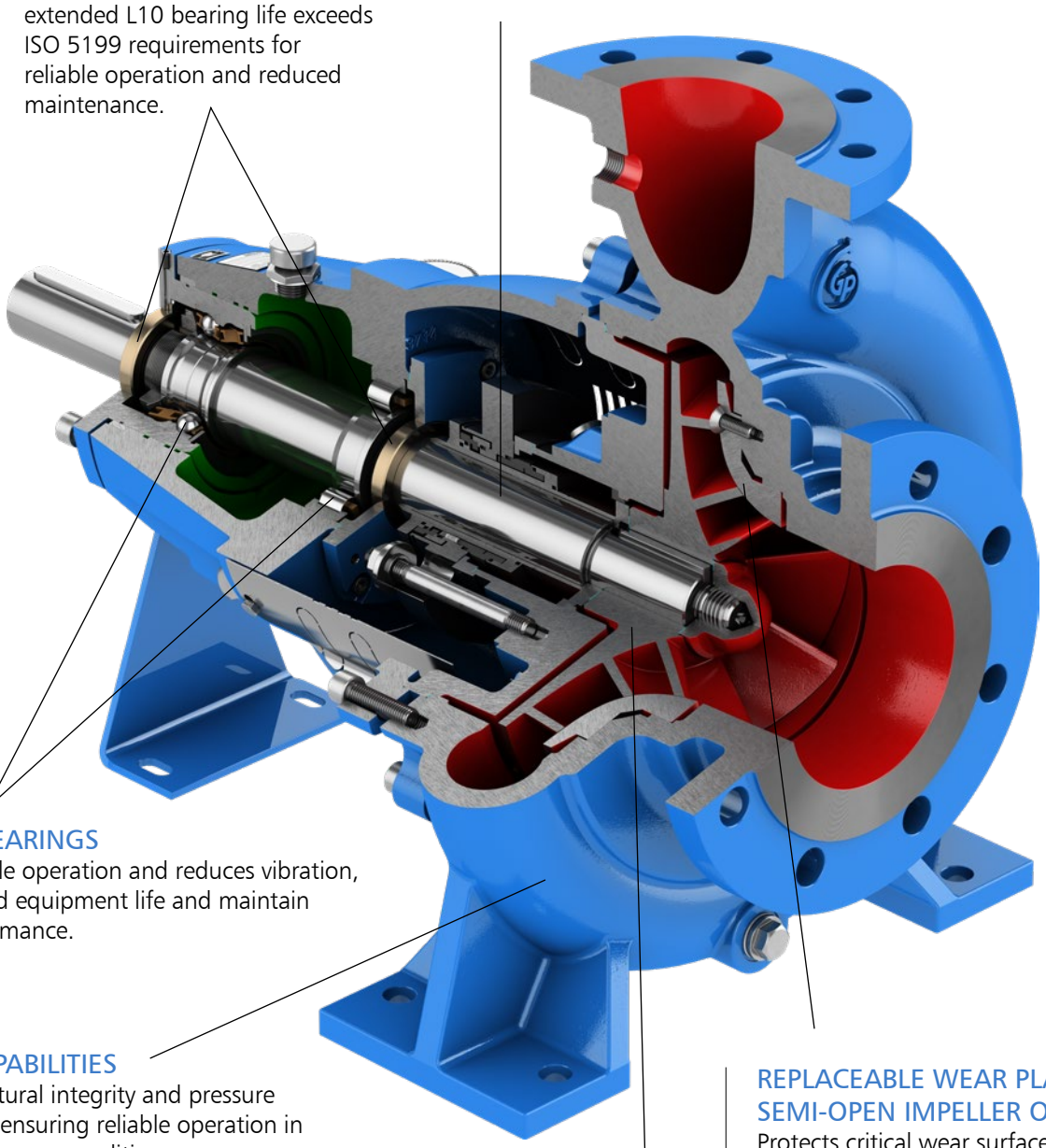


With the semi-open impeller design, its replaceable wear plate helps protect the pump casing from long-term wear in abrasive or demanding process conditions, extending overall equipment life. By localizing wear to a renewable component, it reduces the need for major repairs and lowers total maintenance costs over time. This design also simplifies servicing, allowing faster replacement and minimizing downtime.

ICi Chemical Process Pump: A Look Inside

BEARING PROTECTORS
Protects against leakage and contamination with lip and labyrinth seal options, while extended L10 bearing life exceeds ISO 5199 requirements for reliable operation and reduced maintenance.

SHAFT DESIGN
Transfers power reliably while maintaining alignment and strength under demanding operating conditions.



RELIABLE BEARINGS
Supports stable operation and reduces vibration, helping extend equipment life and maintain reliable performance.

CASING CAPABILITIES
Provides structural integrity and pressure containment, ensuring reliable operation in demanding process conditions.

REPLACEABLE WEAR PLATE WITH SEMI-OPEN IMPELLER OPTION
Protects critical wear surfaces while allowing efficiency to be restored and maintenance costs to be reduced over time.

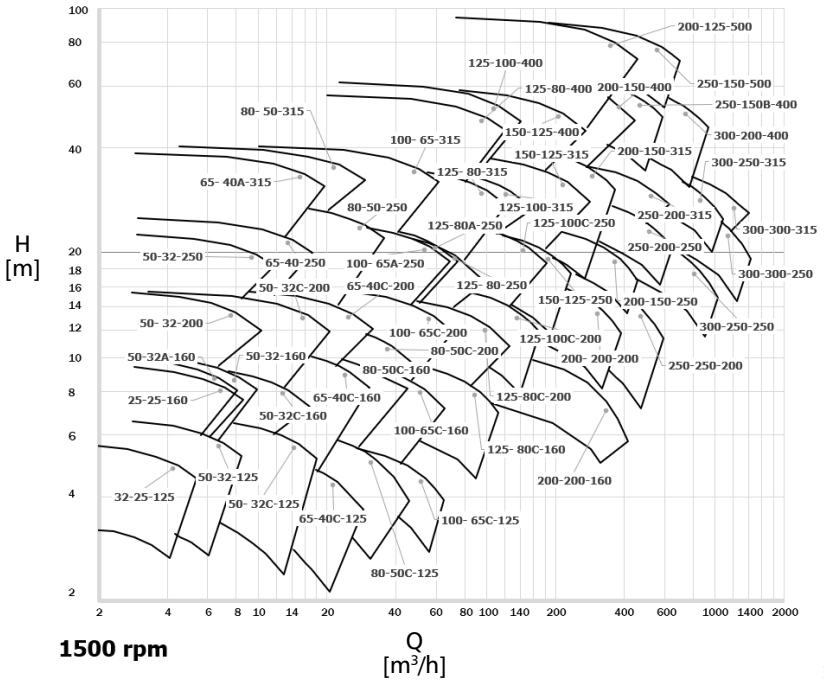
CLOSED IMPELLER ALTERATIVE
When using this impeller type, hydraulic performance over the life of the pump can also be maintained using a replaceable casing wear ring, instead of the replaceable wear plate found in the semi-open impeller design.

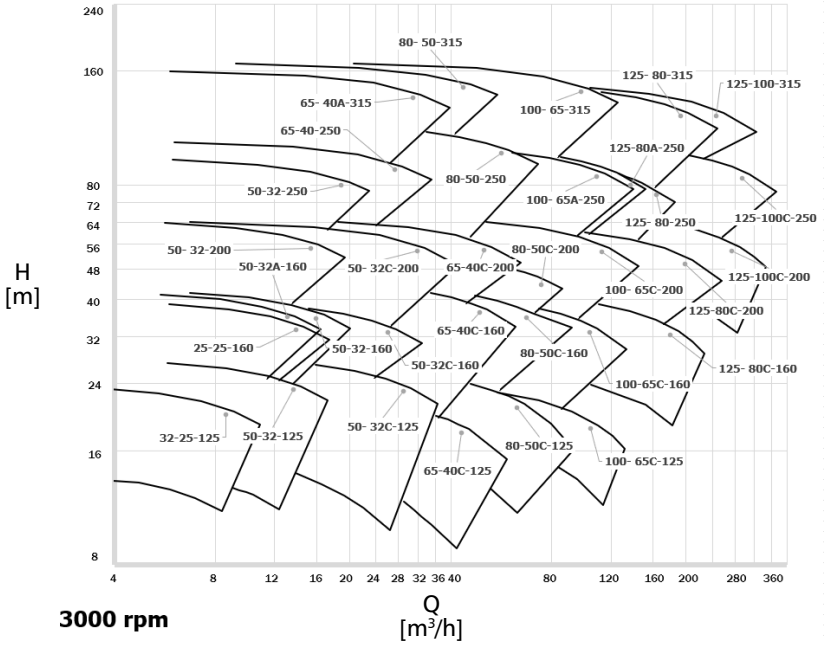
IMPELLER DESIGN OPTIONS
Supports closed or semi-open impeller configurations to optimize efficiency in clean services or improve solids handling and wear resistance in more demanding applications.

Technical Data

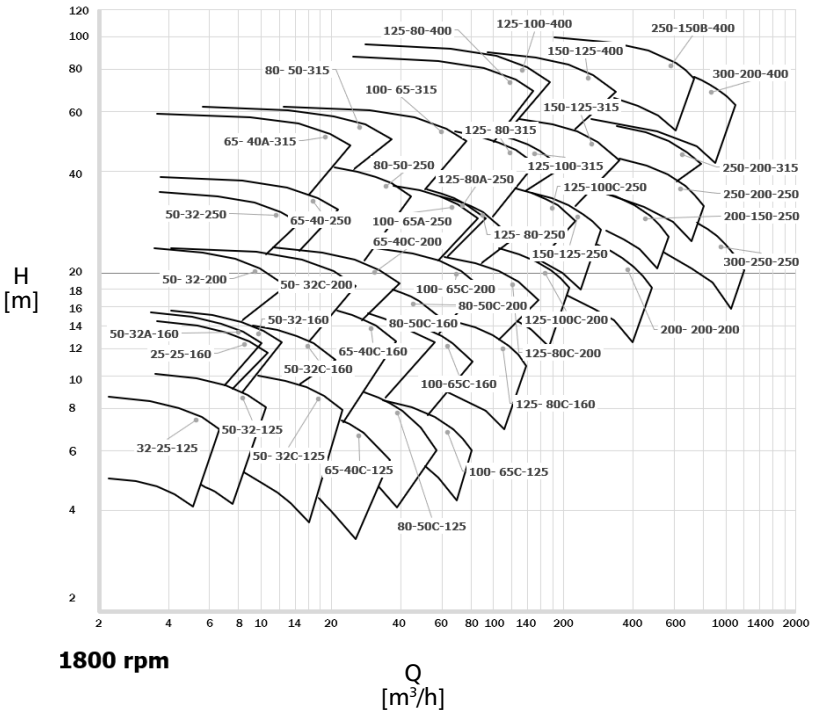
Max. capacity	1600 m³/h
Max. head	160 m
Max. working pressure	16 bar
Max. temperature	-50 °C up to +200 °C
Max. speed	3600 rpm

Hydraulic Performance Data

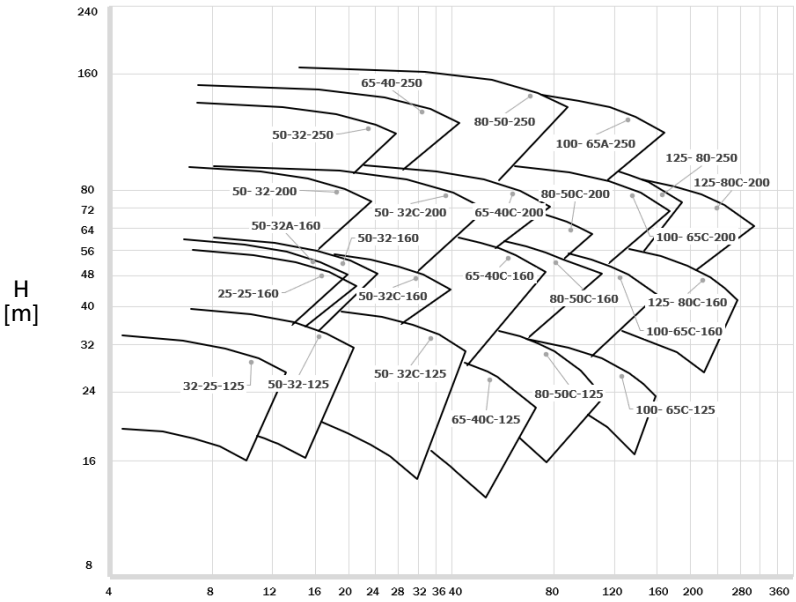




Hydraulic Performance Data



1800 rpm

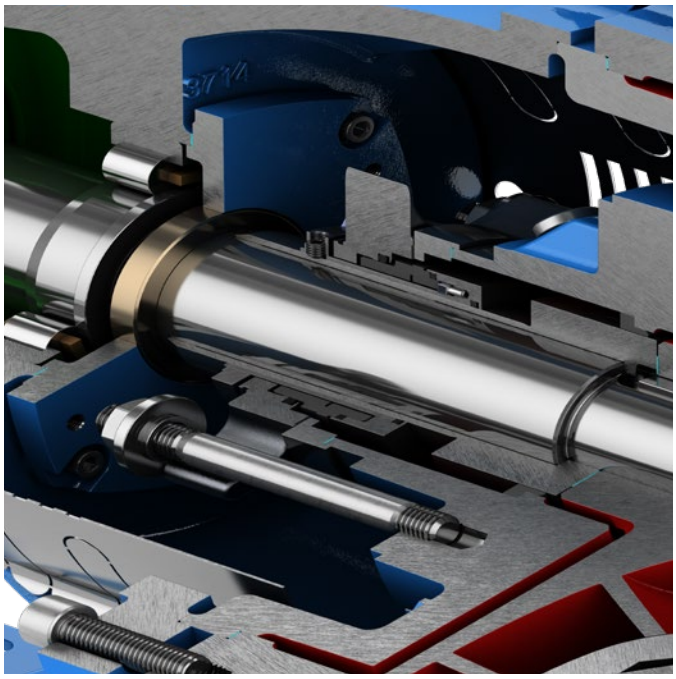


3600 rpm

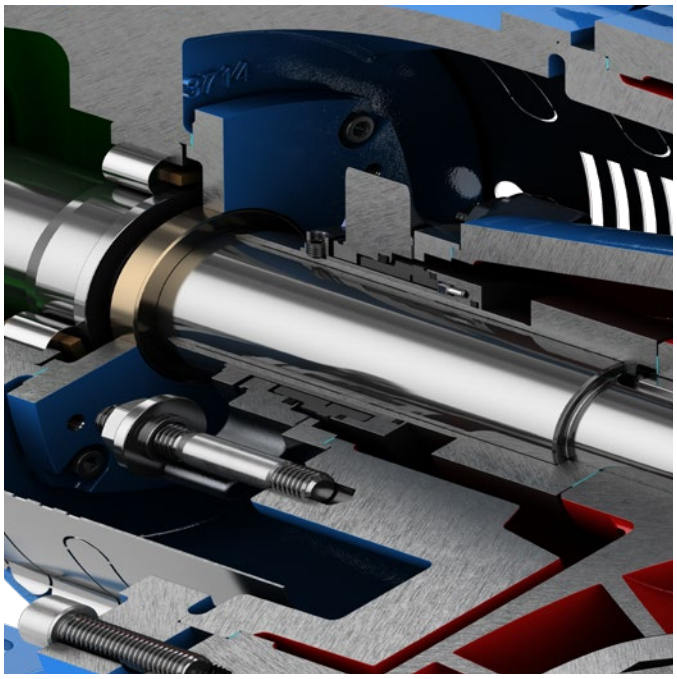
Shaft Sealing Configurations

The ICi offers a wide range of shaft sealing options, including single and double cartridge seals, conventional seals, and quench arrangements to meet diverse process requirements. In addition to sealing flexibility, the pump is available with both tapered and cylindrical bore seal chambers, enabling the optimal seal environment to be selected for specific operating conditions. Tapered bore designs help improve seal alignment and installation consistency, while cylindrical bore configurations support a broad range of conventional sealing solutions and application preferences.

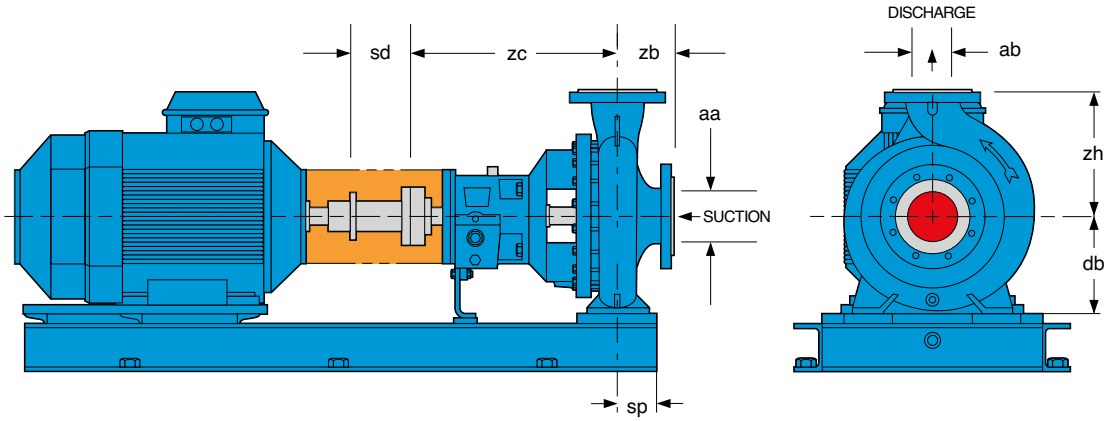
CYLINDRICAL BORE



TAPERED BORE



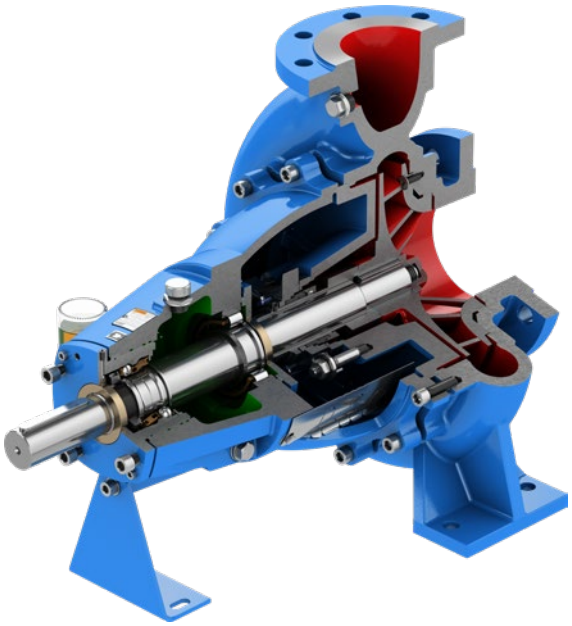
Dimensions



SIZE	aa	ab	db	sd	sp	zb	zc	zh
32-25-125	32	25	100	100	60	62	324	115
25-25-160	25	25	132	100	60	64.5	337	152
50-32-125	50	32	112	100	60	80	385	140
50-32C-125	50	32	112	100	60	80	385	140
50-32-160	50	32	132	100	60	80	385	160
50-32A-160	50	32	132	100	60	80	385	160
50-32C-160	50	32	132	100	60	80	385	160
50- 32-200	50	32	160	100	60	80	385	180
50- 32C-200	50	32	160	100	60	80	385	180
50-32-250	50	32	180	100	72	100	500	225
65-40C-125	65	40	112	100	60	80	385	140
65-40C-160	65	40	132	100	60	80	385	160
65-40C-200	65	40	160	100	60	100	385	180
65-40-250	65	40	180	100	72	100	500	225
65-40A-315	65	40	200	100	72	125	500	250
80-50C-125	80	50	132	100	60	100	385	160
80-50C-160	80	50	160	100	60	100	385	180
80-50C-200	80	50	160	100	60	100	385	200
80-50-250	80	50	180	100	72	125	500	225
80-50-315	80	50	225	100	72	125	500	280
100-65C-125	100	65	160	100	72	100	385	180
100-65C-160	100	65	160	100	72	100	500	200
100-65C-200	100	65	180	140	72	100	500	225
100-65A-250	100	65	200	140	90	125	500	250
100-65-315	100	65	225	140	90	125	530	280
125-80C-160	125	80	180	140	72	125	500	225
125-80C-200	125	80	180	140	72	125	500	250

SIZE	aa	ab	db	sd	sp	zb	zc	zh
125-80-250	125	80	225	140	90	125	500	280
125-80A-250	125	80	225	140	90	125	500	280
125-80-315	125	80	250	140	90	125	530	315
125-80-400	125	80	280	140	90	125	530	355
125-100C-200	125	100	200	140	90	125	500	280
125-100C-250	125	100	225	140	90	140	530	280
125-100-315	125	100	250	140	90	140	530	315
125-100-400	125	100	280	140	110	140	530	355
150-125-250	150	125	250	140	110	140	530	355
150-125-315	150	125	280	140	110	140	530	355
150-125-400	150	125	315	140	110	140	530	400
200-150-250	200	150	280	140	110	200	530	280
200-150-315	200	150	280	140	110	160	530	400
200-150-400	200	150	315	140	110	160	530	450
200-200-160	200	200	280	140	110	125	500	250
200- 200-200	200	200	280	140	110	200	530	400
250-250-200	250	250	315	140	110	200	530	450
200-125-500	200	125	400	140	110	200	680	500
250-150B-400	250	150	355	140	110	200	690	500
250-150-500	250	150	450	140	110	230	685	550
250-200-250	250	200	355	140	110	260	696	425
250-200-315	250	200	355	140	110	180	695	450
300-200-400	300	200	400	140	110	230	695	550
300-250-250	300	250	400	140	110	260	716	550
300-250-315	300	250	375	140	110	230	700	500
300-300-250	300	300	450	140	110	250	720	550
300-300-315	300	300	450	140	110	230	720	550

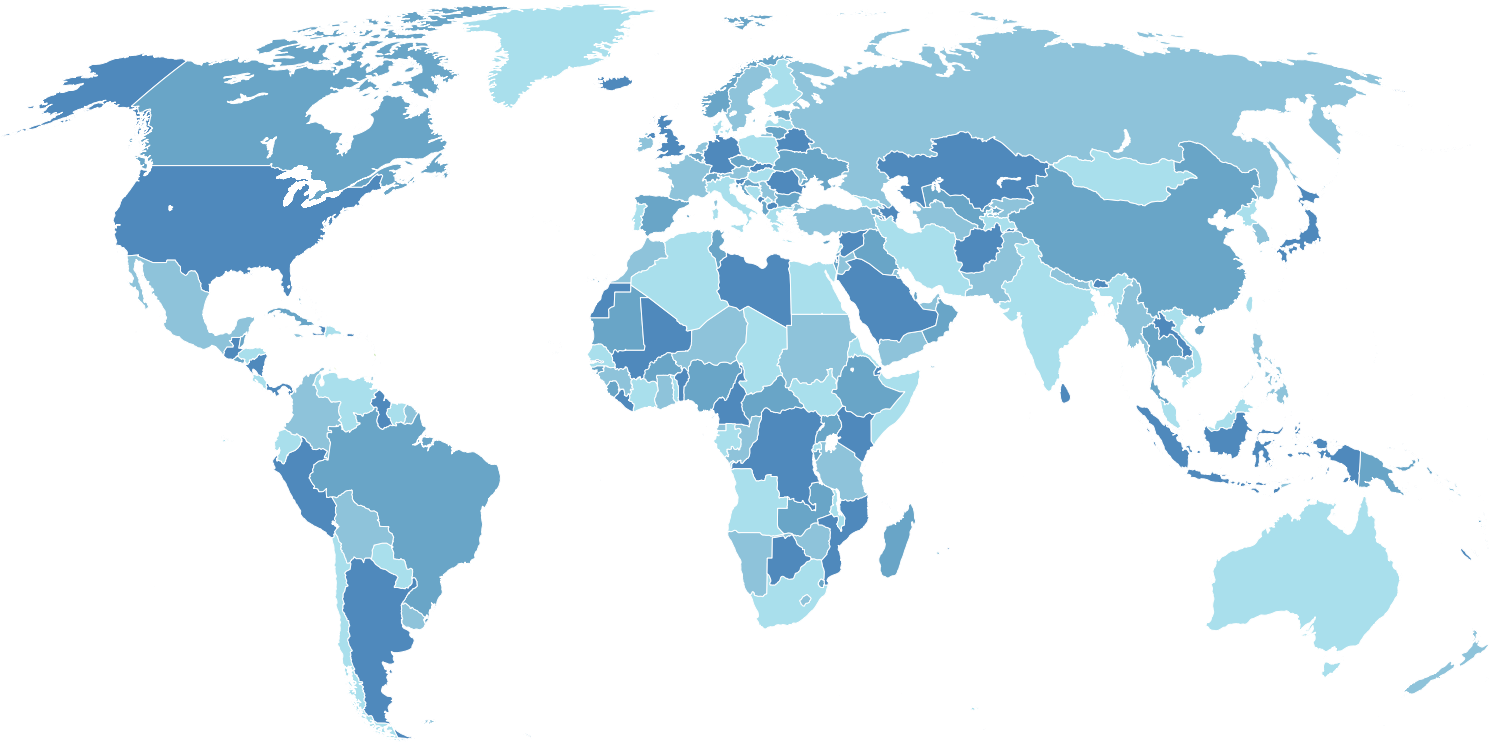
Parts List & Materials of Construction



Part	Material	Description	Material Number	AISI	ASTM
Pump Casing	Cast Iron	EN-GJL-250	EN-JL 1040	-	A278 class 35
	Nodular Cast Iron	EN-GJS-400-15	EN-JS 1030	-	A395/536
	Bronze	G-CuSn10Zn	2.1086.01	-	B584 C90500
	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	316	A351 grade CF8M
Pump Cover	Cast Iron	EN-GJL-250	EN-JL 1040	-	A278 class 35
	Nodular Cast Iron	EN-GJS-400-15	EN-JS 1030	-	A395/536
	Bronze	G-CuSn10Zn	2.1086.01	-	B584 C90500
	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	316	A351 grade CF8M
Impeller	Cast Iron	EN-GJL-200	EN-JL 1030	-	A48 class 30
	Bronze	G-CuSn10Zn	2.1086.01	-	B584 C90500
	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	316	A351 grade CF8M
Pump Shaft	Steel Alloy	X17CrNi16-2	1.4057	431	A276 type 431
	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
	Stainless Steel	X2CrNiMo17-12-2	1.4401	316	A276 type 316
Wear Ring	Cast Iron	EN-GJL-250	EN-JL 1040	-	A278 class 35
	Bronze	CuSn7Zn4Pb7-C	CC493K 2.1090.01	-	B584 C93200
	Stainless Steel	G-40CrNi27-4	1.4340	446	A743 grade CC-50
Cap Nut	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	316	A743 grade CF8M
Shaft Sleeve S2,S3,S4	duplex	X2CrNiMoN22-5-3	1.4462	-	A276 S31803
Shaft Sleeve M2,M3	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
	Stainless Steel	X2CrNiMo17-12-2	1.4401	316	A276 type 316
Shaft Sleeve MW2,MW3	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
	Stainless Steel	X2CrNiMo17-12-2	1.4401	316	A276 type 316
Shaft Sleeve MQ2,MQ3	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
	Stainless Steel	X2CrNiMo17-12-2	1.4401	316	A276 type 316
Shaft Sleeve C2	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
	Stainless Steel	X2CrNiMo17-12-2	1.4401	316	A276 type 316
Shaft Sleeve C3,CD3,CQ3	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
	Stainless Steel	X2CrNiMo17-12-2	1.4401	316	A276 type 316
Shaft Sleeve CD3	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
	Stainless Steel	X2CrNiMo17-12-2	1.4401	316	A276 type 316
Gland	Cast Iron + 2%Ni	EN-GJL-250+2% Ni	EN-JL 1040+2% Ni	-	-
	Bronze	G-CuSn10Zn	2.1086.01	-	B584 C90500
	Stainless Steel	X2CrNiMo17-12-2	1.4404	316L	A276 type 316L
Mechanical Seal Cover	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	316	A351 grade CF8M
Bearing Bracket	Cast Iron	EN-GJL-250	EN-JL 1040	-	A278 class 35

Notes

Notes



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