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Quality | Commitment | Adaptability

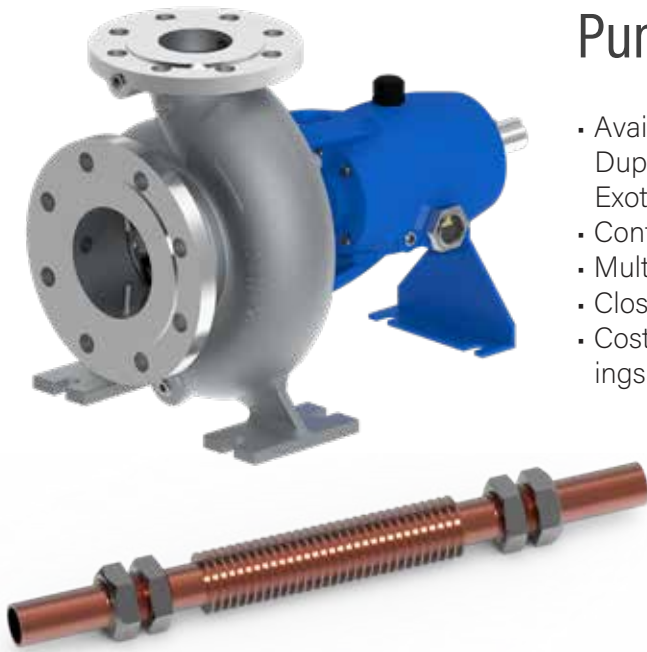
High on Pump
Efficiency
Great on
Reliability



www.rottechpumps.com

RoChem (ISO 2858/5199)
Closed Impeller Chemical Process Pump

Pump Design Features



- Available in various Material of Constructions i.e.CI, DI, Stainless Steel, Duplex, Super Duplex steel, Nickel based Alloys, Titanium and other Exotic Materials.
- Conforms to ISO 5199 and Dimensionally comply with ISO 2858
- Multiple Pump sizes cover the maximum Hydraulic Coverage Area
- Close impeller pump design offers higher efficiency of Pumps.
- Cost Effective solution with various options in Sealing Systems, Bearings and Shafts

Finned Cooler

- Directly cools oil for lower bearing temperature.
- Requires minimum cooling water.
- Corrosion resistant construction.
- Recommended for temperature over 350°F (177°C)

Bearings

SKF Make as a Standard, Other make options available

- Medium Duty
Radial bearing: Cylindrical roller bearing
Fixed bearing: Paired angular contact bearing/
double-row angular contact ball bearing
- Economy bearing assembly
Floating bearings: Deep groove ball bearings
- Lubrication
Grease lubrication (Standard)
Oil lubrication (Optional)



**Rochem Base Frame
Sheet Metal**



**Rochem Drip Pan
Base Frame**

Base Frame Systems

- Base Frame mounting structures designed to meet the full variety of installation applications.
- Designed for optimum unit reliability, while meeting user preferences for economy, chemical resistance, and installation features.

Flange Options

- Standard : ANSI B16.5 #150 Flat Flange
- Optional : ANSI B16.5 #150 Raise Flange,
ANSI B16.5 #300 Raise Flange,
PN 16 Raise Flange (EN 1092-1)



Standard Bore



Large Bore



Taper Bore

Stuffing box covers

- Standard Bore:
Designed for packing as well as mechanical seal.
- Large Bore:
Enlarged chamber for increased seal life through improved cooling & lubrication.
- Taper Bore:
Lower seal face temperature, self-venting & draining. Solid & vapors circulated away from seal face



Component seal



**Single
Cartridge Seal**



**Dual
Cartridge Seal**

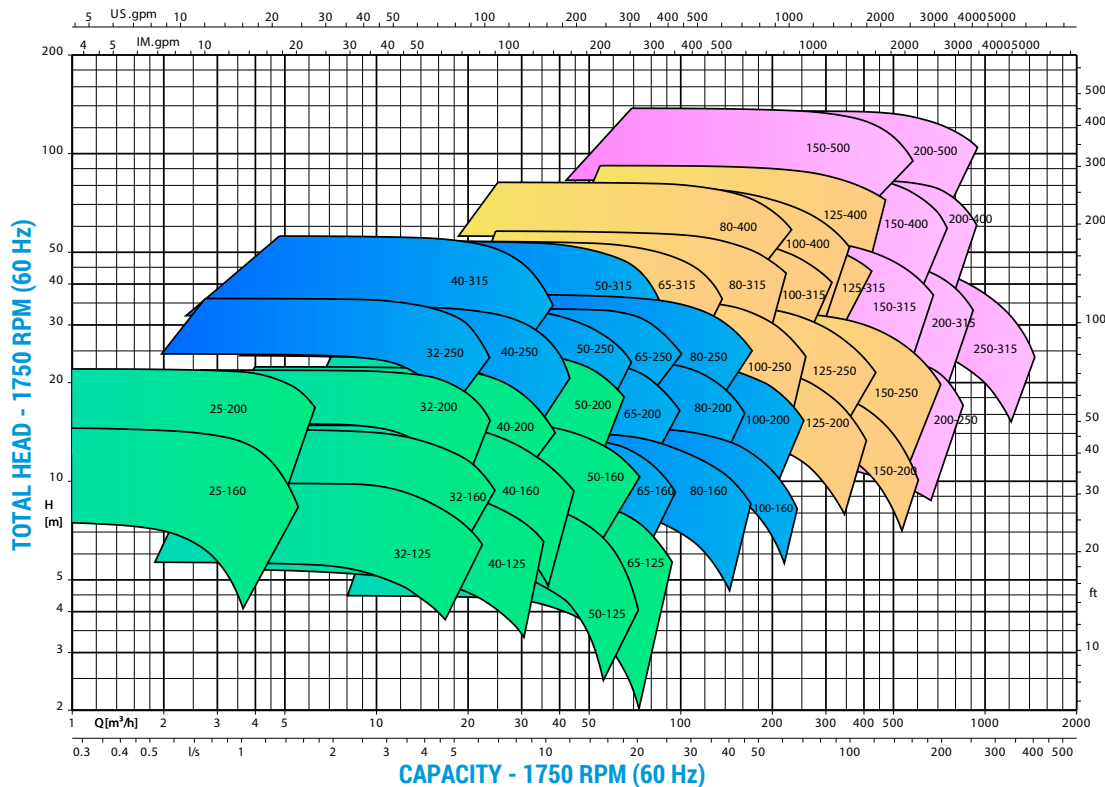
Sealing Options

- For Pumping Liquid :
Gland Packing, Component Mechanical Seal (Single or Double), Cartridge Mechanical Seal (Single or Double)
- Bearing Lubrication / protection options :
Single Lip Seal (Standard), Double Lip seal (Optional),
Labyrinth Seal (Optional)

HYDRAULIC PERFORMANCE COVERAGE

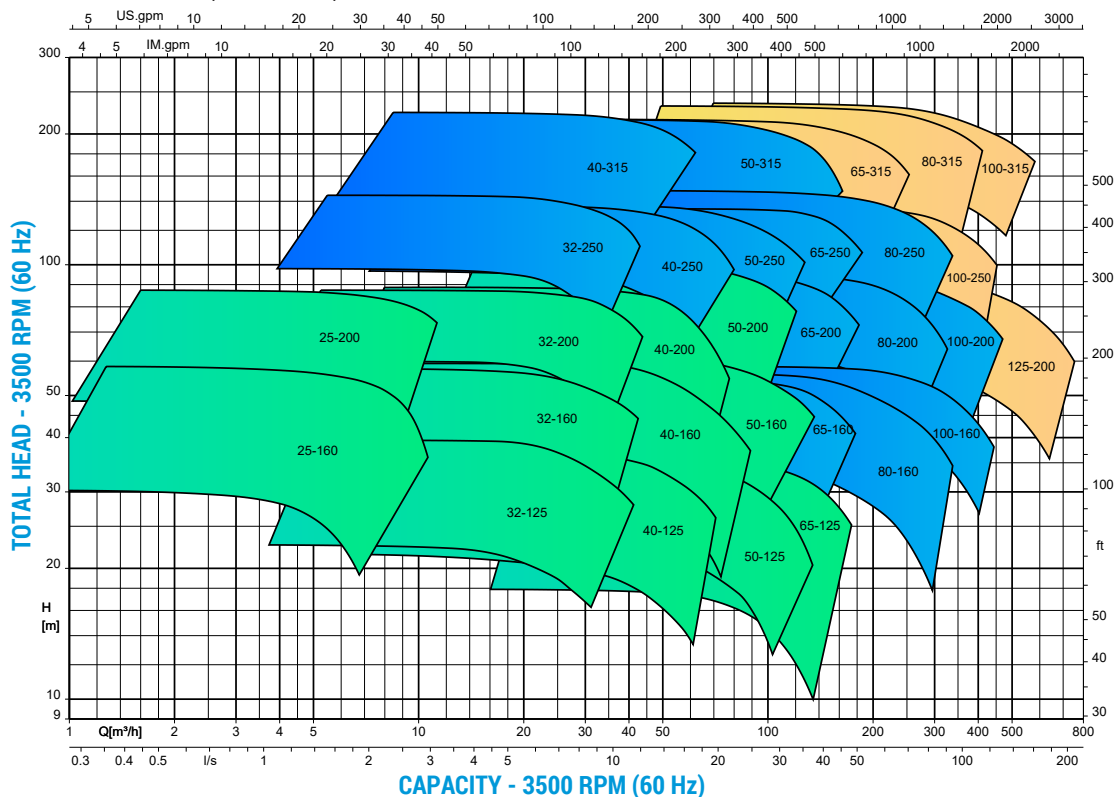
With 4 Pole Motor

Capacity up to 6384 GPM (1450 m³/h) | Head up to 450 feet (137 m) | Temperature to 752° F (400° C)
Pressure to 362 PSIG (2500 kPa)



With 2 Pole Motor

Capacity up to 3300 GPM (750 m³/h) | Head up to 754 feet (230 m) | Temperature to 752° F (400° C)
Pressure to 362 PSIG (2500 kPa)



ROTECH ISO 2858/5199 PROCESS PUMP

Design Features & Benefits

Sealing Options & Stuffing box cover

- Different component & Lip seal configurations can accommodate.
- All API seal support system can be used.
- Assure leak protection with maximum heat dissipation, extended seal life and pump reliability.
- Gland packing can be accommodate with Standard Bore Stuffing box.

Casing

- Additional featured with suction vortex breaker vanes
- Self-venting, centerline mounted discharge flange
- Precision serrated flange face finish for optimum gasket retention and sealing.
- Flange Options: Standard: ANSI B16.5 #150 Flat Flange
Optional: ANSI B16.5 #150 Raise Flange, ANSI B16.5 #300 Raise Flange, PN 16 Raise Flange (EN 1092-1)
- Back Pull out design for easy maintenance

Wear Ring

- Protects Impeller's wear
- Sustain and balance pump's radial load
- Optimized leakage gap causes higher pump efficiency

Gasket

- PTFE, Glass filled Teflon for all pumps.
- Positive liquid sealing

Impeller

- Closed Impeller design for increasing efficiency
- Moderate solid handling capacity with ease in pumping fibrous material.
- Back pump out curved vanes reduces pressure on shaft seal and throw out solid particles
- Balanced with grad G 6.3 of ISO 1940

Delivery

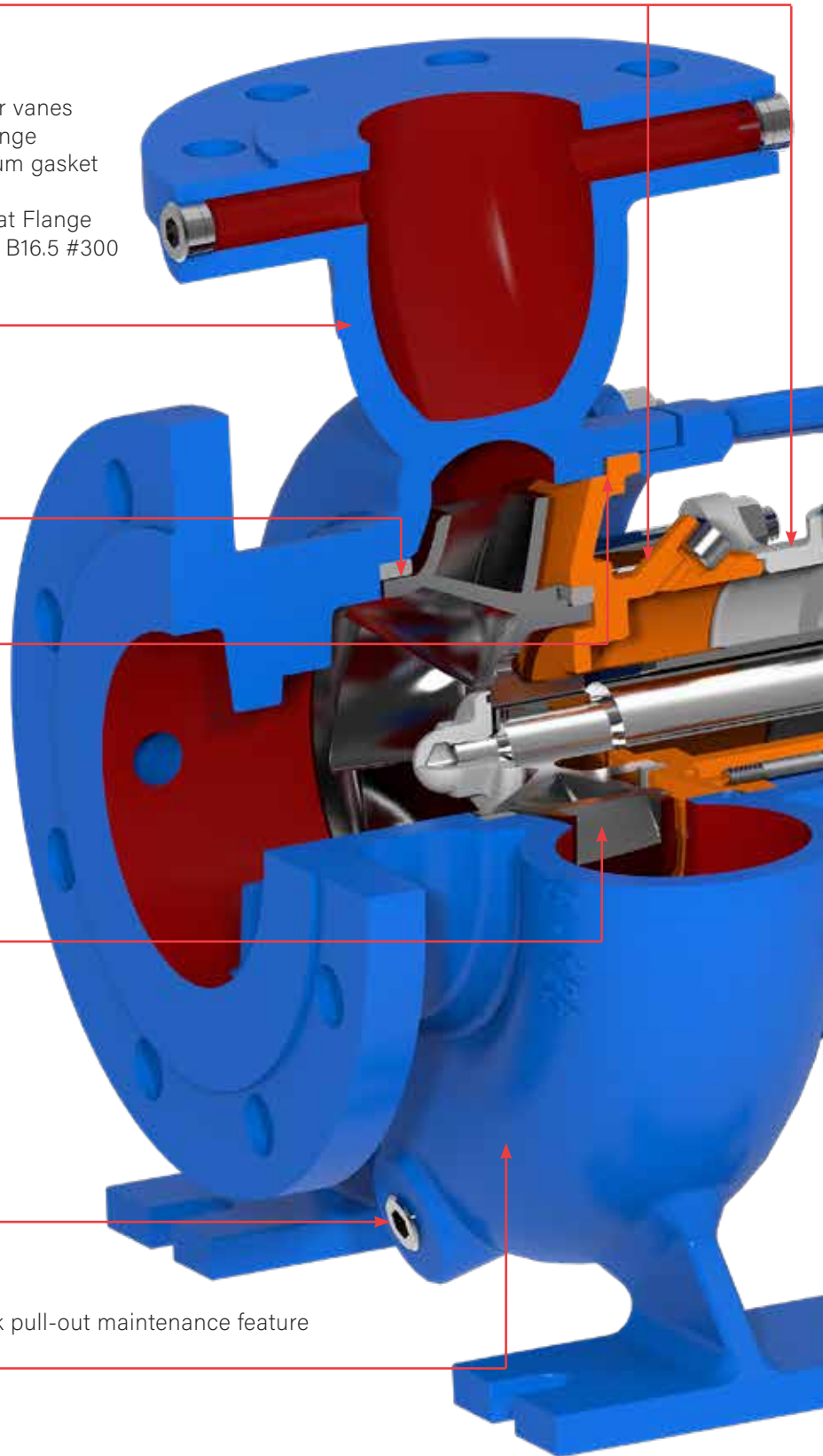
Pumps/parts are strategically inventoried at various locations in North America, Asia for rush delivery in various material options.

Casing Drain

- Casing drain port as standard
- Drain piping as optional

Foot Mounted Casing

- Maximum casing stability and support for back pull-out maintenance feature
- Reduced vibration





Breather Plug

- Large sized vent/fill cap for easy oil changes and elimination of contamination during oil change

Slinger Disk

- Directs oil to thrust bearings for efficient cooling and improved lubrication.

Bearing

- Pump end side: Cylindrical roller bearing
- Drive end side: Double row angular contact ball bearing
Paired angular contact ball bearings

Bearing Lock Cover

- Inboard and Outboard lock cover are used for supporting outer race of both bearing
- It can accommodate single lip seal, double lip seal and isolator also.

Bearing Frame

- Optimize oil sump capacity for increased cooling
- Pressurise all lubrication system can be accommodate
- Lubrication Option: Oil and Grace both can be used
- Optional finned designed for maximum heat dissipation
- Contoured internal slope for positive collection of metal contaminants by magnetic drain plug
- Internal surface cleaned, rust preventative applied, and enamel coated assuring internal casting cleanliness

Bearing Frame Leg

- It reduces effects of pipe loads on pump or motor shaft alignment
- Bearings and seals last longer

Oil Sump Magnetic Drain Plug*

- Magnetic plug to maintain bearing frame cleanliness and increased protection

Oil Level Sight Glass

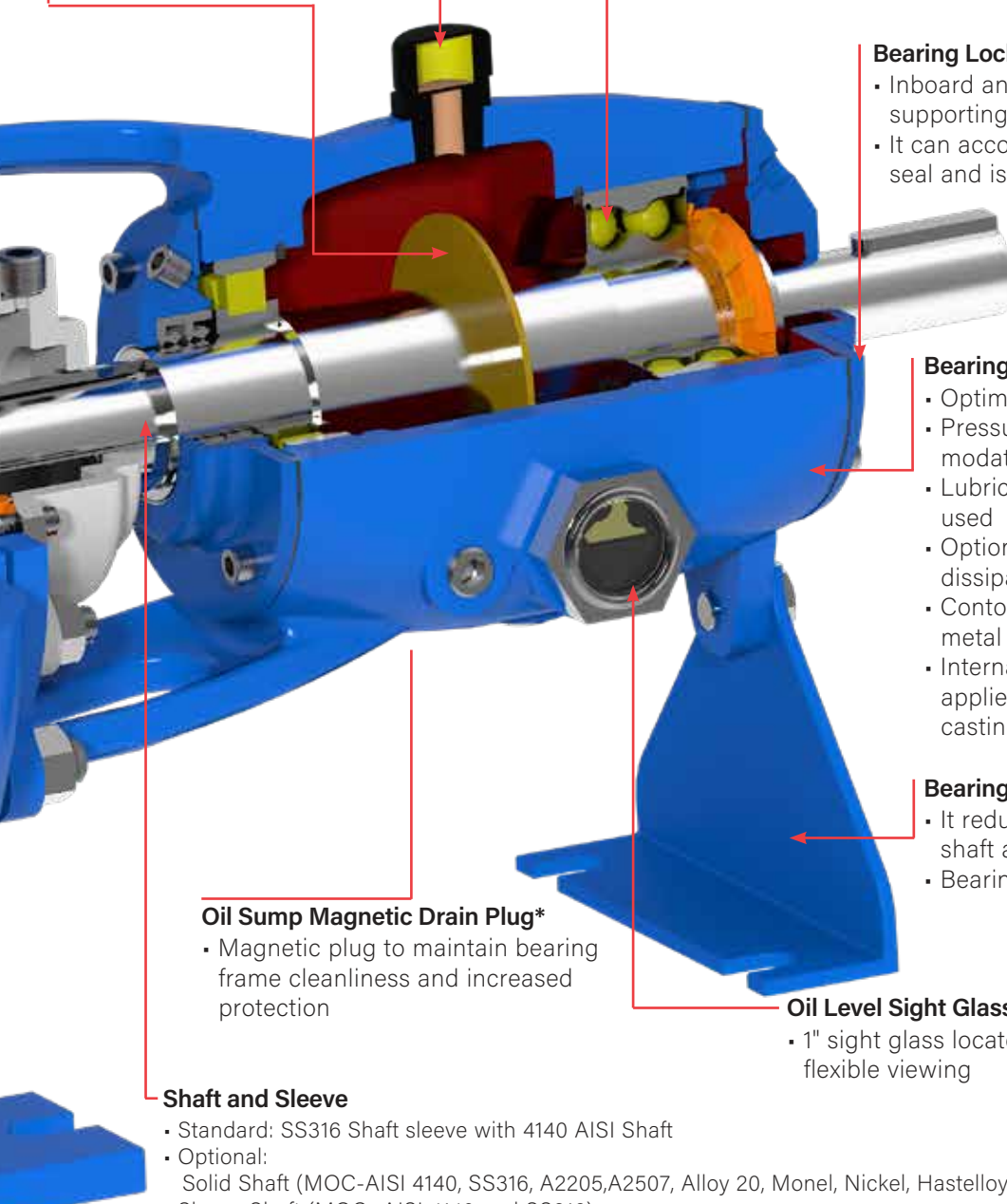
- 1" sight glass located on each side of bearing housing for flexible viewing

Shaft and Sleeve

- Standard: SS316 Shaft sleeve with 4140 AISI Shaft
- Optional:
 - Solid Shaft (MOC-AISI 4140, SS316, A2205,A2507, Alloy 20, Monel, Nickel, Hastelloy B,C & Titanium)
 - Sleeve Shaft (MOC- AISI 4140 and SS316)
- Rigid heavy duty design for minimum shaft deflection at seal area and increased reliability
- Low deflection at seal faces for longer seal and bearing life







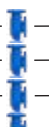

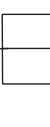

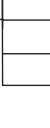




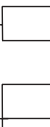
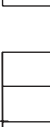








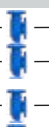
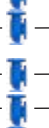
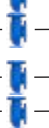

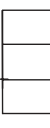
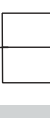
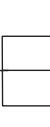





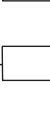








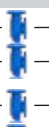
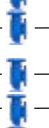
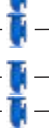




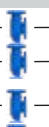
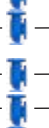
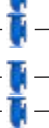

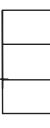
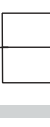
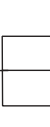





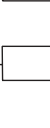






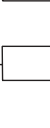





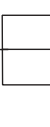


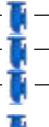
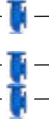






Pump Selector Program

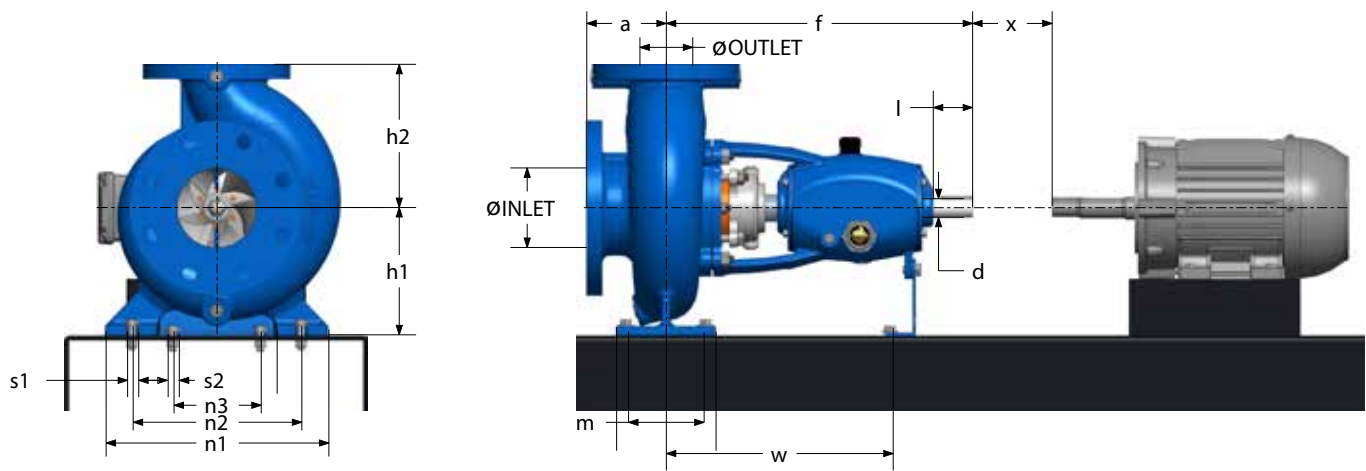
Access to end users and specifiers to select your pump application online at www.rotechpumps.com or Contact us for more help



Note: (*) Not Illustrated

INTERCHANGEABILITY CHART

Power Frame	Back Plate	Stuffing Box Cover	Impeller	Casing	Size			
 <p>Group 1</p>	G1 6"	G1 5"	  	  	1.25x2-5			
		G1 6"			G1 6"	1.5x2.5-5		
		G1 8"			G1 8"	2x3-5		
	 <p>Group 2</p>	G2 8"	G2 6"	  	  	2.5x4-6		
			G2 10"			G2 10"	3x4-6	
			G2 13"			G2 13"	4x5-6	
		 <p>Group 3</p>	G3 10"	G2 8"	  	  	2.5x4-8	
				G2 10"			G2 10"	3x4-8
				G2 13"			G2 13"	4x5-8
 <p>Group 4</p>			G4 13"	G3 8"	  	  	1.25x2-10	
				G3 10"			G3 10"	1.5x2.5-10
				G3 13"			G3 13"	2x3-10
	 <p>Group 5</p>		G4 16"	G3 13"	  	  	2.5x4-10	
				G3 16"			G3 16"	3x4-10
				G4 13"			G4 13"	3x4-10
		 <p>Group 6</p>	G4 20"	G4 10"	  	  	1.5x2.5-13	
				G4 16"			G4 16"	2x3-13
				G4 20"			G4 20"	2x3-13
 <p>Group 7</p>			G4 16"	G3 8"	  	  	5x6-8	
				G3 10"			G3 10"	6x8-8
				G3 13"			G3 13"	4x5-10
	 <p>Group 8</p>		G4 20"	G3 10"	  	  	5x6-10	
				G3 13"			G3 13"	6x8-10
				G3 16"			G3 16"	2.5x4-13
		 <p>Group 9</p>	G4 20"	G3 13"	  	  	3x4-13	
				G4 13"			G4 13"	4x5-13
				G4 16"			G4 16"	5x6-13
 <p>Group 10</p>			G4 20"	G4 10"	  	  	3x4-16	
				G4 16"			G4 16"	4x5-16
				G4 20"			G4 20"	5x6-16
	 <p>Group 11</p>		G4 20"	G4 10"	  	  	8x8-10	
				G4 13"			G4 13"	6x8-13
				G4 16"			G4 16"	8x10-13
		 <p>Group 12</p>	G4 20"	G4 13"	  	  	10x12-13	
				G4 16"			G4 16"	6x8-16
				G4 20"			G4 20"	8x10-16
 <p>Group 13</p>			G4 20"	G4 10"	  	  	6x8-20	
				G4 13"			G4 13"	8x10-20
				G4 16"			G4 16"	8x10-20




PUMP DIMENSIONS

Size	Bearing Frame	Suction Flange	Discharge Flange	Pump				Support				w	Clearance holes for bolts		Shaft End		
		ANSI B16.5		a	f	h1	h2	m	n1	n2	n3		s1	s2	d	l	X
1x1.5-6	G1	1.5	1	3.15	15.16	5.20	6.30	3.94	9.45	7.48	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1x1.5-8	G1	1.5	1	3.15	15.16	6.30	7.09	3.94	9.45	7.48	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1.25x2-5	G1	2	1.25	3.15	15.16	4.41	5.51	3.94	7.48	5.51	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1.25x2-6	G1	2	1.25	3.15	15.16	5.20	6.30	3.94	9.45	7.48	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1.25x2-8	G1	2	1.25	3.15	15.16	6.30	7.09	3.94	9.45	7.48	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1.25x2-10	G2	2	1.25	3.94	19.69	7.09	8.86	4.92	12.60	9.84	4.33	14.57	0.55	0.55	1.12	3.15	3.75
1.5x2.5-5	G1	2.5	1.5	3.15	15.16	4.41	5.51	3.94	8.27	6.30	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1.5x2.5-6	G1	2.5	1.5	3.15	15.16	5.20	6.30	3.94	9.45	7.48	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1.5x2.5-8	G1	2.5	1.5	3.94	15.16	6.30	7.09	3.94	10.43	8.35	4.33	11.22	0.55	0.55	0.87	1.97	3.75
1.5x2.5-10	G2	2.5	1.5	3.94	19.69	7.09	8.86	4.92	12.60	9.84	4.33	14.57	0.55	0.55	1.12	3.15	3.75
1.5x2.5-13	G2	2.5	1.5	4.92	19.69	7.87	9.84	4.92	13.58	11.02	4.33	14.57	0.55	0.55	1.12	3.15	3.75
2x3-5	G1	3	2	3.94	15.16	5.20	6.30	3.94	9.45	7.48	4.33	11.22	0.55	0.55	0.87	1.97	3.75
2x3-6	G1	3	2	3.94	15.16	6.30	7.09	3.94	10.43	8.35	4.33	11.22	0.55	0.55	0.87	1.97	3.75
2x3-8	G1	3	2	3.94	15.16	6.30	7.87	3.94	10.43	8.35	4.33	11.22	0.55	0.55	0.87	1.97	3.75
2x3-10	G2	3	2	4.92	19.69	7.09	8.86	4.92	12.60	9.84	4.33	14.57	0.55	0.55	1.12	3.15	3.75
2x3-13	G2	3	2	4.92	19.69	8.86	11.02	4.92	13.58	11.02	4.33	14.57	0.55	0.55	1.12	3.15	3.75
2.5x4-5	G1	4	2.5	3.94	15.16	6.30	7.09	4.92	11.02	8.35	4.33	11.22	0.55	0.55	0.87	1.97	3.75
2.5x4-6	G2	4	2.5	3.94	19.69	6.30	7.87	4.92	11.02	8.35	4.33	14.57	0.55	0.55	1.12	3.15	3.75
2.5x4-8	G2	4	2.5	3.94	19.69	7.09	8.86	4.92	12.60	9.84	4.33	14.57	0.55	0.55	1.12	3.15	3.75
2.5x4-10	G2	4	2.5	4.92	19.69	7.87	9.84	6.30	14.17	11.02	4.33	14.57	0.71	0.55	1.12	3.15	3.75
2.5x4-13	G3	4	2.5	4.92	20.87	8.86	11.02	6.30	15.75	12.40	4.33	14.57	0.71	0.55	1.65	4.33	3.75
3x4-6	G2	4	3	4.92	19.69	7.09	8.86	4.92	12.60	9.84	4.33	14.57	0.55	0.55	1.12	3.15	3.75
3x4-8	G2	4	3	4.92	19.69	7.09	9.84	4.92	13.58	11.02	4.33	14.57	0.55	0.55	1.12	3.15	3.75
3x4-10	G2	4	3	4.92	19.69	8.86	11.02	6.30	15.75	12.40	4.33	14.57	0.71	0.55	1.12	3.15	3.75
3x4-13	G2	4	3	4.92	19.69	7.87	11.02	6.30	14.17	12.40	4.33	14.57	0.71	0.55	1.65	4.33	3.75
3x4-16	G2	4	3	4.92	19.69	7.87	11.02	6.30	14.17	13.98	4.33	14.57	0.71	0.55	1.65	4.33	3.75
4x5-6	G3	5	4	4.92	20.87	9.84	12.40	6.30	15.75	11.02	4.33	14.57	0.75	0.55	1.12	3.15	3.75
4x5-8	G3	5	4	4.92	20.87	11.02	13.98	6.30	17.13	11.02	4.33	14.57	0.71	0.55	1.12	3.15	3.75
4x5-10	G3	5	4	5.51	20.87	8.86	11.02	6.30	15.75	12.40	4.33	14.57	0.71	0.55	1.65	4.33	3.75
4x5-13	G3	5	4	5.51	20.87	9.84	12.40	6.30	15.75	12.40	4.33	14.57	0.71	0.55	1.65	4.33	3.75
4x5-16	G3	5	4	5.51	20.87	11.02	13.98	7.87	19.69	15.75	4.33	14.57	0.91	0.55	1.65	4.33	3.75
5x6-8	G3	6	5	5.51	20.87	9.84	12.40	6.30	15.75	12.40	4.33	14.57	0.75	0.55	1.65	4.33	3.75
5x6-10	G3	6	5	5.51	20.87	9.84	13.98	6.30	15.75	12.40	4.33	14.57	0.71	0.55	1.65	4.33	3.75
5x6-13	G3	6	5	5.51	20.87	11.02	13.98	7.87	19.69	15.75	4.33	14.57	0.91	0.55	1.65	4.33	3.75
5x6-16	G3	6	5	5.51	20.87	12.40	15.75	7.87	19.69	15.75	4.33	14.57	0.91	0.55	1.65	4.33	3.75
6x8-8	G3	8	6	7.09	20.87	11.02	15.75	7.87	21.65	17.72	4.33	14.57	0.94	0.55	1.65	4.33	3.75
6x8-10	G3	8	6	6.30	20.87	11.02	14.76	7.87	19.69	15.75	4.33	14.57	0.91	0.55	1.65	4.33	3.75
6x8-13	G4	8	6	6.30	26.38	12.40	15.75	7.87	21.65	17.72	5.51	19.69	0.91	0.71	1.87	4.33	5.25
6x8-16	G4	8	6	6.30	26.38	12.40	17.72	7.87	21.65	17.72	5.51	19.69	0.91	0.71	1.87	4.33	5.25
6x8-20	G4	8	6	7.09	26.38	14.76	19.69	7.87	21.65	17.72	5.51	19.69	0.91	0.71	1.87	4.33	5.25
8x8-10	G4	8	8	7.09	26.38	13.98	16.73	7.87	21.65	17.72	5.51	19.69	0.91	0.71	1.87	4.33	5.25
8x10-13	G4	10	8	7.87	26.38	13.98	17.72	7.87	21.65	17.72	5.51	19.69	0.91	0.71	1.87	4.33	5.25
8x10-16	G4	10	8	7.09	26.38	13.98	19.69	7.87	21.65	17.72	5.51	19.69	0.91	0.71	1.87	4.33	5.25
8x10-20	G4	10	8	7.87	26.38	16.73	22.05	7.87	25.98	22.05	5.51	19.69	0.91	0.71	1.87	4.33	5.25
10x12-13	G4	12	10	9.84	26.38	15.75	22.05	10.24	27.17	22.05	5.51	19.69	1.10	0.71	1.87	4.33	5.25

Note: Dimensions are approximate and not to be used for construction unless Certified by the Manufacturer.



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