



New Series
NSTR. NMTR. NLTR. NXTR.





Plot No. 312, II Phasa G.I.D.C. Gundlav – 396 035, Valsad, Gujarat. Email: naklankpumps@gmail.com, Website: www.naklankpumps.in Mo. +91 99784 44236, +91 88068 08545.



Manufacturing Of : Investmentcast Chemicals Process Pumps



SEMI OPEN IMPELLER



- Semi Open Radial impellers for higher efficiencies
- Smooth back veins and balanced holes reduces load on shaft and bearings.
- Helps in smooth passage of clear Liquids and slurries.

STUFFING BOX OPTIONS



Stanard Bore :

Designed for packing.
Also accomodates Mechanical Seals.



Big Bore : Enlarged chamber for increased seal life through improved lubrication & cooling.

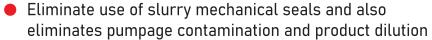


Taper Bore (Conical Stuffing Box):

Lower Seal face temperatures, self-venting & draining. Solids & Vapours Circulated away from seal faces.

DYNAMIC SEALING ARRANGEMENT







Why Naklank?

- Precision parts to closest tolerances.
- On-time global & domestic deliveries.
- Offered in wide range of alloys.
- Wide range of process applications.
- Global distribution & service network.
- 30+ Years of Pump Manufacturing Experience.



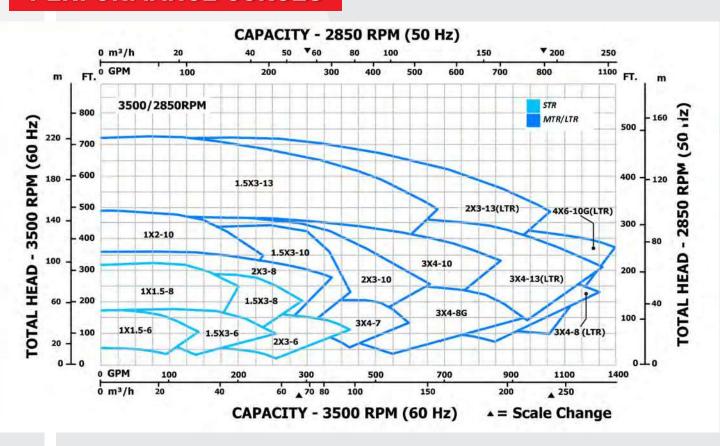


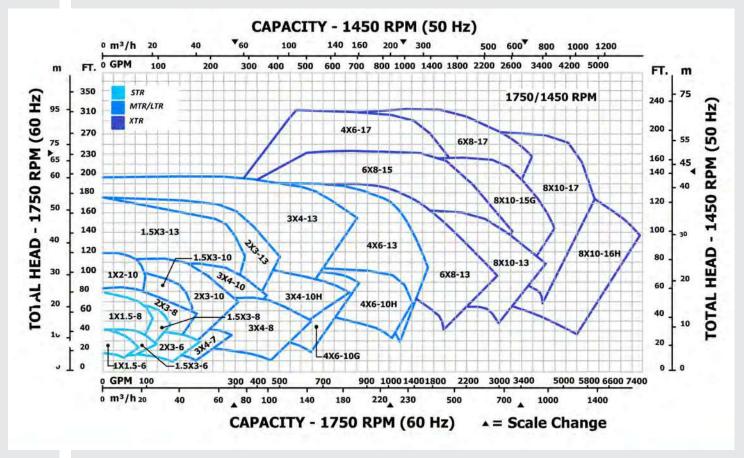






PERFORMANCE CURUES





CONSTRUCTION DETAILS

		STR	MTR	LTR	XTR			
	Diameter at Impeller	0.75 (19)	1 (25)	1.25 (32)	1.5 (38)			
	Diameter in Stuffing Box/Seal Chamber(Less Sleeve) (With Sleeve)	1.375 (35) 1.125 (29)	1.75 (45) 1.5 (38)	2.125 (54) 1.875 (48)	2.5 (64) 2 (51)*			
Diameter at Impeller 0.75 (19) 1 (25)	Diameter Between Bearings	1.5 (38)	2.125 (54)	2.5 (64)	3.125 (79)			
	1.125 (29)	1.875 (48)	2.375 (60)					
	Overhang	eller 0.75 (19) 1 (25) 1.25 (32) 1.5 fing	9.969 (253)					
	Maximum Shaft Deflection	0.002 (0.05)						
	Index (L³/D⁴)(With Sleeve)	143 64		48 29	62 25			
Sleeve		1.375 (35)	1.75 (45)	2.125 (54)	2.5 (64)*			
	Radial	6207	6309	6311	6313			
earings	Thrust	3306	3309	7310	3313			
Jeannige .	Bearing Span	4.125 (105)	6.75 (171)	6.875 (164)	9.25 (235)			
	Bore	2.875 (73)	3.5 (89)	3.875 (98)	4.75 (120)*			
Stuffing Box	Bore	2 (51)	2.5 (64)	2.875 (73)	3.375 (86)*			
Power Limits	HP (kW) per 100 RPM	1.1 (.82)	3.4 (2.6)	5.6 (4.2)	14 (10.5)**			
	Temperature – Oil/Grease		0.002 (0.05) 116 63 48 29 5 (35) 1.75 (45) 2.125 (54) 6309 6311 3309 7310 6.75 (171) 6.875 (164) 5 (73) 3.5 (89) 3.875 (98) 0 2.5 (64) 2.875 (73) 82) 3.4 (2.6) 2.875 (73) 350°F (177°C) up to 280 PSI (1931 kPa) at 100°F with 15 Up to 375 PSI (2586 kpa) at 100°F with 30 °Consult Pressure Temperature chart for various	°C)				
Temperature		up to 280 PSI (1931 kPa) at 100°F with 150# flanges						
	MAWP PSI (kPa)	Up to 375 PSI (2586 kpa) at 100°F with 300 # flange						
		°Consult Pressure Temperature chart for various temperature						
	Maximum Liquid Temperature Oil Lubrication with High Temp. Option	erature						
Casing	Corrosion Allowance		.125 (3)					

^{* 17} inch sizes have 2.25 inch (57) shaft diameters in stuffing box/seal chamber with sleeve. shaft sleeve 0.D. is 2.75 inches (70) for packing and 2.5 inches (64) for mechanical seals. seal chamber bore is 4.75 inches (121). stuffing box bore is 35/8 inches (92) ** 17 inch sizes power limit per 100 RPM is 20 HP (15kW).

All dimensions in inches and (mm). Not to be used for construction



HIGH CAPACITY PUMPS



- Concentric Casing.
- Semi Open Impeller.
- High efficiency capacities.
- Maximum Capacity: Up to 1000 m3/hr.
- Maximum Head : Up to 150 mtr.
- Offer in 2900/1440 RPM @ 50 Hz.
- Offer in 960/1750/3500 RPM @ 60 Hz.

AVAILABLE RANGE

- NSTR Series Offer with Expeller Design
- NMTR/NLTR Series Offer with Expeller Design
- NXTR Series Offer with Expeller Design
- NSCP-NMD Series
- NSCP-NSM Series
- NSCP-NLC Series
- NCIP-1/2/3 Close Impeller Series (ISO-2858)
- NTCIP-1/2 Thermic Fluid Pumps
- NSPP/NSTP-Self Priming Pumps Series (Horizontal & Vertical)

JACKETS FOR CASING & ST BOX FOR (HIGH TEMPERATURE & CRYSTALLISING LIQUIDS)

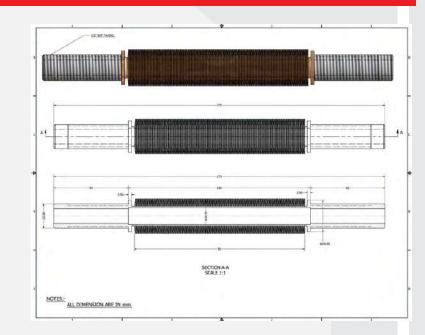






FINNED TIBE COOLER ASSEMBLY FOR HIGH TEMPERATURE APPLICATIONS



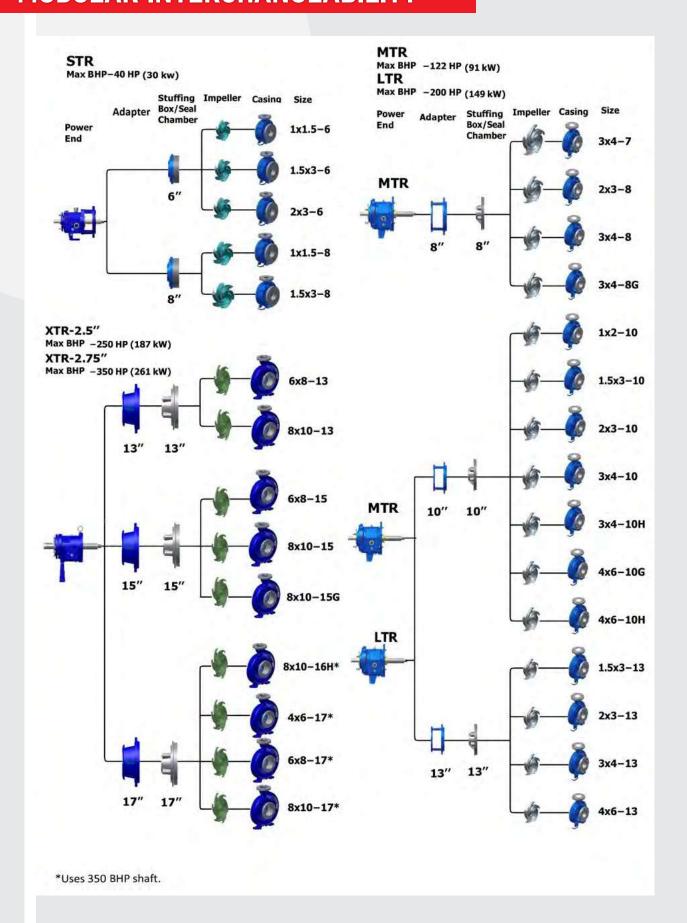


ADDITIONAL FEATURES

- 300 Class Flanges can be offered as optional with the same ANSI Pump Casings for high prwessure requirements.
- Labyrynth seals (Bearing Protectors) are Provided as Standard Feature in various material to suit the outside environment.
- Non Wet ends can br offered in 304SS/316SS and other Alloys.



MODULAR INTERCHANGEABILITY



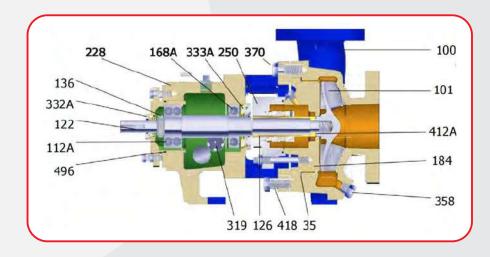
PART LIST & MATERIALS OF CONSTRUCTION

-		Material									
Item Number	Part Name	CS	316SS	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy B&C	Titanium		
100	Casing	CS	316SS	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
101	Impeller	CS	316SS	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
105	Lantern Ring				Glass-Filled PTI	FE					
106	Stuffing Box Packing				PTFE						
108	Frame Adapter				Ductile Iron						
112A	Thrust Bearing			Double	Row Angular C	Contact**					
122	Shaft – Less Sleeve (Optional)		316SS Alloy 20 Monel Nicke						Titanium		
122	Shaft – With Sleeve			SAE4140/316SS				16SS			
126	Shaft Sleeve		316SS CD4MCuN/DuplexSS Alloy 20 Monel N					Hastelloy	Titanium		
136	Bearing Locknut and Lock washer				Steel						
168A	Radial Bearing			Sing	le row Deep G	roove					
184	Stuffing Box Cover (Packed Box)	cs	316SS	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
184	Seal Chamber (Mechanical Seal)	CS	316SS	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
228	Bearing Frame				Ductile Iron						
250	Gland	CS	316SS	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
262	Repeller/Sleeve (Dynamic Seal Option)		31655	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
264	Gasket, Cover-to-Back plate (Dynamic Seal)				PTFE						
370H	Stud/Nut, Cover-to- Adapter		304SS								
319	Oil Sight Glass		Glass/Aluminium								
332A	Labyrinth Oil Seal (Outboard)		Stainless Steel/Bronze								
333A	Labyrinth Oil Seal (inboard)		Stainless Steel/Bronze								
351	Casing Gasket				PTFE						
358	Casing Drain Plug (Optional)		316SS	CD4MCuN/DuplexSS	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
360F	Gasket, Frame-to- Adapter				Natural Rubbe	er					
360C	Gasket, Bearing End Cover		Oil Paper Gasket								
370	Cap Screw, Adapter- to-Casing	Steel									
412A	O-ring, Impeller	Glass-Filled PTFE									
418	Jacking Bolt				304SS			,			
444	Back plate (Dynamic Seal Option)	CS :	316SS CD	4MCuN/DuplexSS A	Alloy 20	Monel	Nickel	Hastelloy	Titanium		
469B	Dowel Pin, Frame-to- Adapter	Steel									
496	O-ring, Bearing Housing				Buna Rubber						

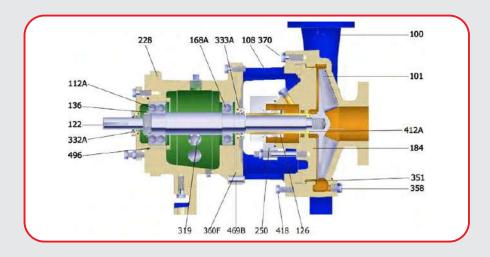
^{*}NLTR Power End features statndard Duplex Angular Contact : Optional NSTR, NMTR, NXTR Other Alloys Available : 304SS/316L/317L/904L etc.



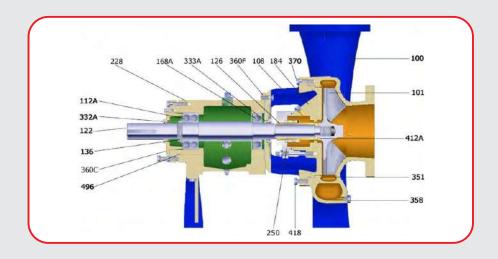
NSTR



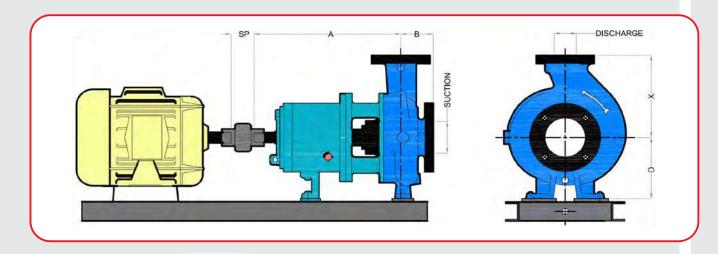
NMTR / NLTR



NXTR



DIMENSIONS



DIMENSIONS										
Group	Pump Size	ANSI Design ation	Discharge Size	Suction Size	x	A	В	D	SP	Bare Pump Weight Lbs. (kg)
	1x1.5-6	AA	1	1.5		13.5 (343)	4 (102)	5.25 (133)	3.75 (95)	104 (47)
	1.5x3-6	AB	1.5	3						110 (50)
NSTR	2x3-6	AC	2	3	6.5 (165)					106 (48)
	1x1.5-8	AA	1	1.5						115 (52)
	1.5x3-8	AB	1.5	3						121 (55)
	3X4-7	A70	3	4	11 (280)	19.5 (495)	4 (102) 8.		3.75 (95)	236 (107)
	2X3-8	A60	2	3	9.5 (242)					231 (105)
	3X4-8	A70	3	4						242 (110)
	3X4-8G	A70	3	4	11 (280)			8.25 (210)		
	1X2-10	A05	1	2				0.23(210)		258 (117)
	1.5X3-10	A50	1.5	3	8.5 (216)					264 (120)
	2X3-10	A60	2	3	9.5 (242)					275 (125)
NMTR/NLTR	3X4-10	A70	3	4	11 (280)					287 (130)
	3X4-10H	A40	3	4	12.5 (318)		4 (102)	10 (254)		353 (160)
	4X6-10G	A80	4	6	13.5 (343)	19.5 (495)				
	4X6-10H	A80	4	6						375 (170)
	1.5X3-13	A20	1.5	3	10.5 (267)					326 (148)
	2X3-13	A30	2	3	11.5 (292)					348 (158)
	3X4-13	A40	3	4	12.5 (318)					357 (162)
	4X6-13	A80	4	6	13.5 (343)					386 (175)
	6X8-13	A90	6	8	16 (406)		6 (152)	6 (152) 14.5 (368)	5.25 (133)	639 (290)
	8X10-13	A100	8	10	18 (457)					805 (365)
	6X8-15	A110	6	8						732 (332)
	8X10-15	A120	8	10	19 (483) 16 (406) 18 (457) 19 (483)					794 (360)
NXTR	8X10-15G	A120	8	10						1098 (498)
	8X10-16H	A120	8	10		27.875 (708)				1098 (498)
	4X6-17	A105	4	6						705 (320)
	6X8-17	A110	6	8						838 (380)
	8X10-17	A120	8	10						926 (420)

All dimensions in inches and (mm). Not to be used for construction