





KNS SERIES







Decades of experience in development & manufacturing moulded non metallic pumps have paved way for PFA/FEP lined pumps designed as per ISO 2858 standard.

Linings made of PFA / FEP are an excellent alternative to high alloy, expensive metal pumps thus justifies ANTICO design philosophy to design pumps that are simple rugged and reliable using the most appropriate materials.

PFA is a copolymer of Tetrafluorethylene and Perfluoroalkoxyethylene. PFA stands for Perfluoalkoxy and has temperature resistance upto 200° Celcius.

FEP is a copolymer of Tetrafluoroethylene and Hexafluoroethylene. FEP stands for Fluorinated Ethylene Propylene and has temperature resistance up to 180° Celcius.

PFA / FEP is justifiably material of choice as compared to PTFE due to several advantages.

PFA / FEP is processed in a transfer moulding operation as a result, the lining wall thickness can be accurately defined and reproduced.

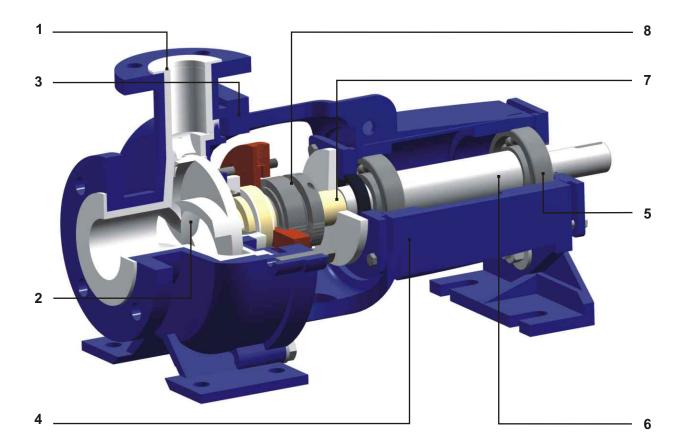
PFA / FEP is almost transparent and therefore permits much more reliable quality control.

PFA / FEP has dense molecular structure hence has much lower permeation rates than PTFE with the same wall thickness but it has the same chemical resistance properties.

Application:

KNS series are best suited for pumping corrosive & toxic air pollutants; typically used in chemical and pharmaceutical industries.

Design Features



1 Volute Casing

Top centreline discharge, self venting volute casing lined with PFA/FEP. Minimum liningthickness of 6 mm, lining locked by multiple locking grooves. Outer body graded cast iron as per ASTM standard, other materials like cast steel / stainless steel available on request.

2 Impeller

All impellers are precision moulded in PFA/FEP, light in weight, semi open construction, with large contoured flow passages for maximum handling of the liquid.

3 Backplate

Lined with thick walled PFA/FEP.
Minimum lining thickness of 6 mm,
lining locked by multiple locking grooves.
Outer body graded cast iron as per
ASTM standard,other materials like
cast steel / stainless steel available
on request.

4 Bearing Frame

Heavy Cast Iron construction, precision machined for no shaft deflection of more than 0.05 mm, contains large oil reservoir.

5 Ball Bearings

Inboard bearing is pressed on shaft and free to float axially in frame - carries radial load only. Outboard double row ball bearing is shouldered and locked on shaft with lock-nut and washer, in bearing housing - carries radial and any unbalanced thrust load. All bearing fits are precision bored.

6 Shaft

Designed for maximum 0.05 mm deflection at mechanical seal. Available in EN / Stainless Steel.

7 Sleeve

Shaft Sleeve of different material depending on the compatibility of the liquid to be handled.

8 Mechanical Seal

Available in single or double seal arrangements with wide variety of seal faces.



Sealing Options

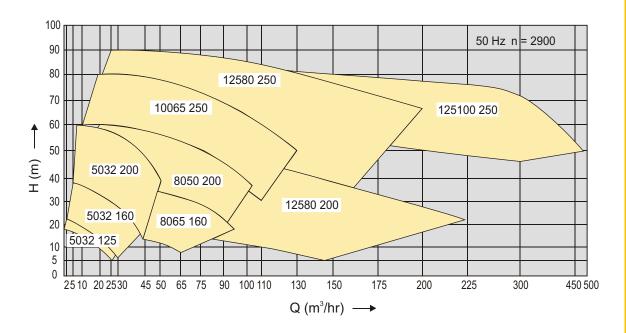
PTFE Bellows	PTFE Bellows	PTFE bellows provide universal chemical resistance for a wide range of services & non-wetted metal parts eliminate the need for expensive metallurgies. TB/TBR seal is inherently hydraulically balanced to ensure proper face loading. Installs easily on outside of stuffing box; eliminates the use of elastomers.
Metallic Seal	Metallic Seal	Metallic seal is a multi spring outside mounted balanced seal with 'O' Ring as secondary seal. Excellent for crystalline media since clogging of rotary unit does not occur as is the case in PTFE bellows seal. Wide range of seal face materials available for various applications.
Double Seals	Double Seals	Double seal pumps come with double ROTT seals used exclusively for volatile organic hazardous air pollutants. Inboard seal faces are SiC vs SiC with PTFE packing & outboard seal faces are SiC vs Carbon with Viton 'O' ring. Seal hardware & stuffing box are SS316. Seal cooling will have to be as per API plan 53 with a pressurized thermosyphon system.

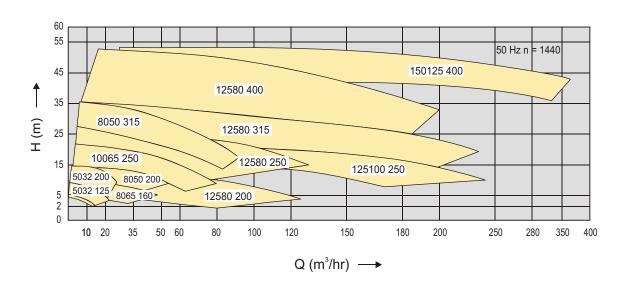




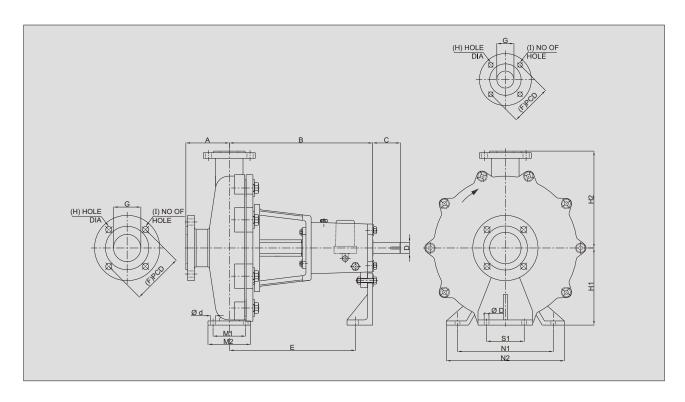


Performance Range Chart





Pump Dimensions & Connections



150 X 125 X 400	140	530	110	42	370	315	400	150	200	400	500	110	M-12	M-20	241	150	22	80	219	125	18	08
125 X 100 X 250	140	530	110	42	370	225	280	120	160	315	400	110	M-12	M-20	219	125	18	08	190	100	18	08
125 X 80 X 400		530	110	42		280	355			355	435				219	125	18	08	152	80	18	04
125 X 80 X 315	125	500	80	32	370	250	315	120	160	315	400	110	M-12	M-16	219	125	18	08	152	80	18	04
125 X 80 X 250						225	280								219	125	18	80	152	80	18	04
125 X 80 X 200		500	80	32		200	250	120	160	280	360			M-12	219	125	18	08	152	80	18	04
100 X 65 X 250	125	500	80	32	370	160	180	70	100	212	265	110	M-12	M-16	190	100	18	08	140	65	18	04
80 X 65 X 160	100	385	50	24	285	160	180	70	100	212	265				152	80	18	04	140	65	18	04
80 X 50 X 315	125	500	80	32	370	225	280	95	125	280	345	110	M-12	M-12	152	80	18	04	120	50	18	04
80 X 50 X 200	100	385	50	24	285	160	200		100	212	265		M-12	M-12	152	80	18	04	120	50	18	04
50 X 32 X 200						160	180			190	240											
50 X 32 X 160		385	50	24		132	160		100	190	240	110			89	32	14	04	79	25	14	04
50 X 32 X 125						112	140			140	190											İ
MODEL	Α	В	С	D	Е	Н1	Н2	M1	M2	N1	N2	S1	øр	Ød	F	G	Н	I	F	G	Н	ı
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NOTE:-

- 1) ALL DIMENSIONS IN mm
- 2) DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE
- 3) FLANGES AS PER ANSI B 16.5 # 150 RF



Anticorrosive Equipment Pvt Ltd

15, Hind Service Industries, 2nd Floor,

Off V. S. Road, Shivaji Park, Mumbai - 400 028, India Phone: +91 22 2446 6496, 2446 8340, 2445 3501

Fax: +91 22 2444 9271

info@anticopumps.co.in www.anticopumps.co.in

