

ANTICO

non metallic pumps



PPCL Series - Heavy Duty Process Pumps

PPCL SERIES



Decades of experience in development & manufacturing of injection Moulded Polypropylene Corrosion Resistant Pumps.

Design philosophy is to design pumps that are simple, rugged & reliable using for most appropriate materials.



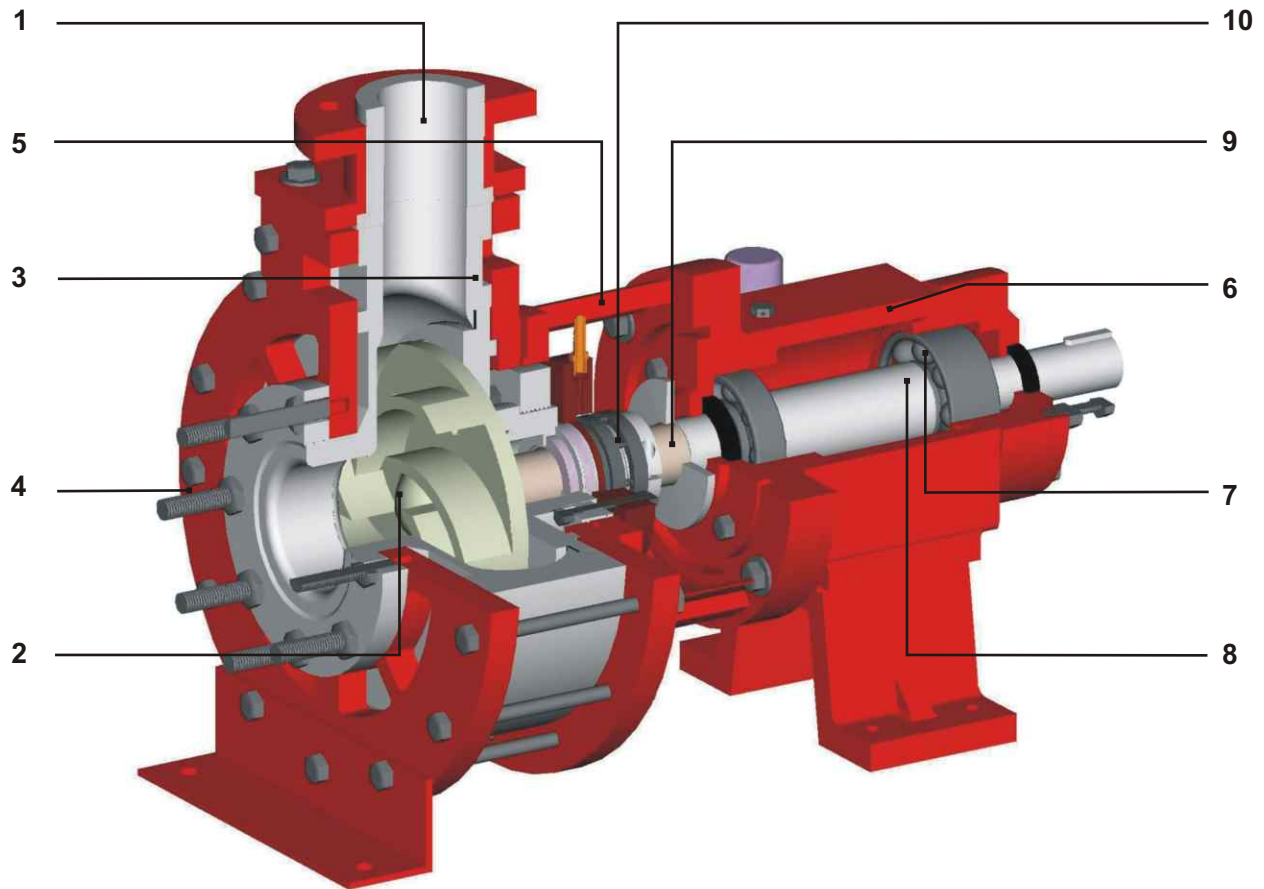
Polypropylene, a vinyl polymer has low density is fairly rigid & has temperature resistance up to 80° C. Its outstanding characteristic is resistance to strong acids coupled with good mechanical properties, light weight & excellent resistance to corrosion make it an obvious choice for ANTICO pumps.



Application:

PPCL series pumps are an ideal choice for pumping large quantities of corrosive media. Typical applications include chemical & pharmaceutical industries, chlor alkali plants, steel plants, water treatment plants.

Design Features



1 Volute Casing

Top centreline discharge, self venting volute casing formed out injection moulded polypropylene.

2 Impeller

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

3 Backplate

Thick walled solid injection moulded polypropylene.

4 Cage Ring

Lends good mechanical strength to the casing in line with Antico's design philosophy.

5 Adopter

Facilitates maintenance without disturbing Bearing Block and Shaft.

6 Bearing Frame

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

7 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, and in bearing housing to carry radial and any unbalanced thrust load. All bearing fits are precision bored.

8 Shaft

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

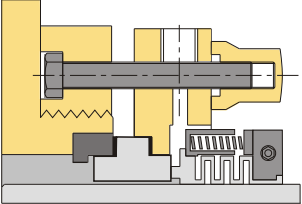
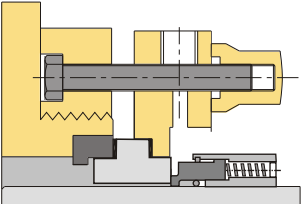
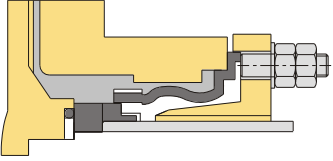
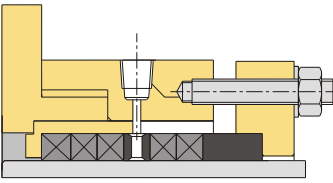
9 Sleeve

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

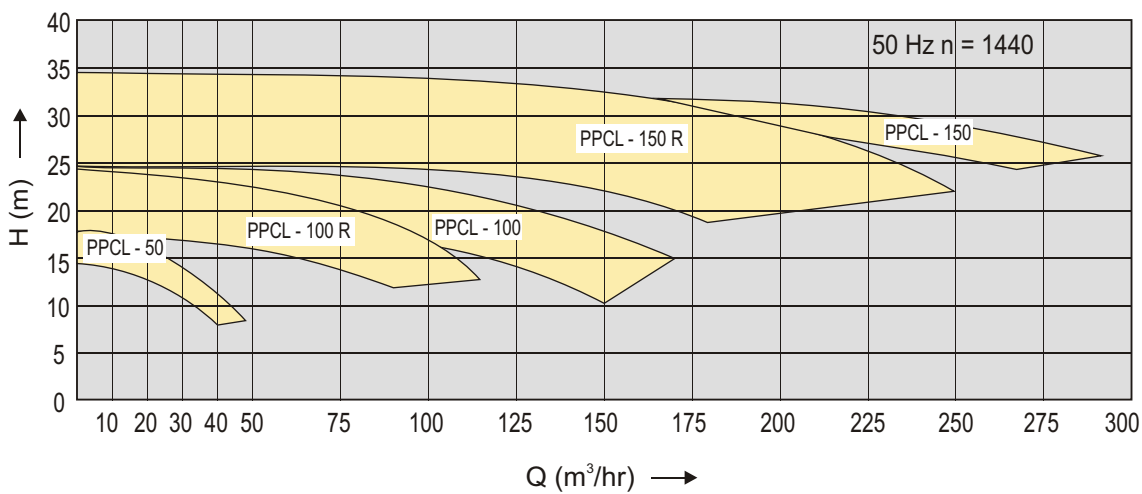
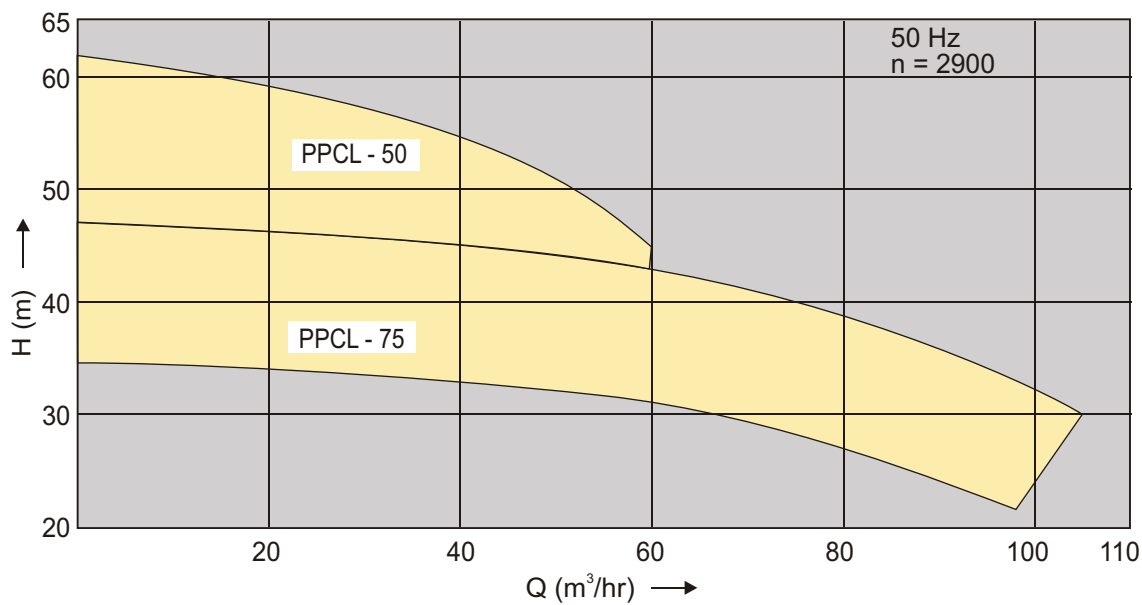
10 Mechanical Seal / Gland Packing

Pumps are fitted with either mechanical seal or gland packing depending on the service conditions.

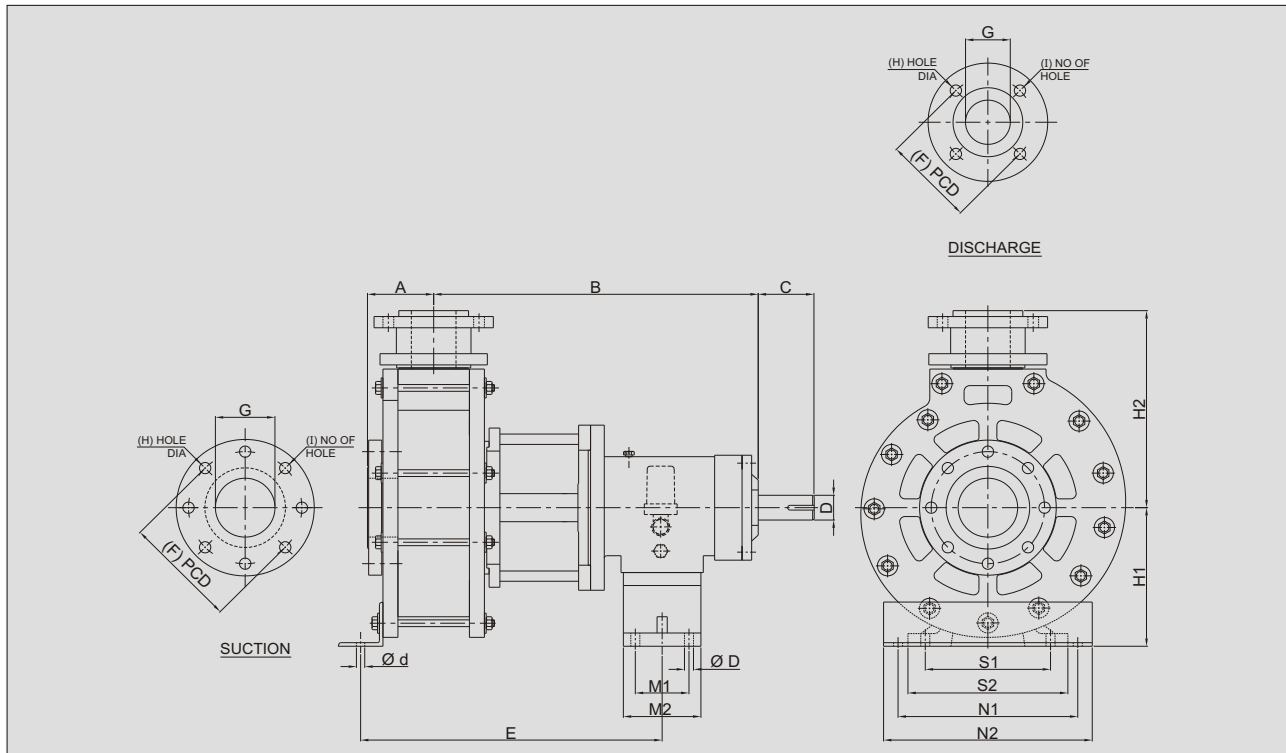
Sealing Options

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.
Internal Mechanical Seal		Internal Mechanical Seal Internal Mechanical Seal developed by Antico, has rotary unit fitted on the impeller and stationary unit housed in a rubber bellow. Polypropylene bellow holder ensures proper seal face loading. Used extensively in metal finishing industries.
Gland Packing		Gland Packing Gland packing pumps come with pure PTFE or PTFE Impregnated Blue Asbestos against specific customer requirements.

Performance Range Chart



Pump Dimensions & Connections



PPCL- 150	126	634	91	45	582	290	410	100	152	250	300	255	316	16	16	240	150	18	08	190	100	18	08
PPCL- 150 R	126	634	91	45	582	290	410	100	152	250	300	255	316	16	16	190	100	18	08	152	75	18	04
PPCL- 100	110	544	94	42	506	235	334	90	130	250	300	210	266	16	16	190	100	18	08	152	75	18	04
PPCL- 100 R	110	544	94	42	506	235	334	90	130	250	300	210	266	16	16	190	75	18	08	152	50	18	04
PPCL- 75	94	542	94	42	495	185	205	60	120	250	300	210	266	16	16	152	75	18	04	152	50	-	-
PPCL- 50	88	399	81	25	368	212	296	65	100	285	330	180	240	12.5	12.5	120	50	18	04	120	50	18	04
MODEL	A	B	C	D	E	H1	H2	M1	M2	N1	N2	S1	S2	Ø D	Ø d	SUCTION FLANGE				DISCHARGE FLANGE			
																F	G	H	I	F	G	H	I

NOTE :

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



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