

POSITIVE DISPLACEMENT RANGE OF PUMPS

Pioneer Pump's line of positive displacement pumps are ideal for a variety of applications, from waste water to hygienic solutions. A world class choice for pumping viscous, abrasive and shear sensitive products.





PROGRESSING CAVITY RANGE OF PUMPS

Orbit helical rotor pumps are ideal for the toughest of applications, well suited to abrasive, viscous, as well as shear sensitive duties. These are available as standalone pumps or complete lineup, with mechanical seal or packed gland options, and a range of materials. This pump can be tailored to suit any application.

FEATURES

- Suitable for pumping highly viscous products
- Ability to pump *abrasive products*
- Ability to transfer liquids with hard or soft solids
- Reversible flow for high performance in either direction
- ✓ Variable flow at consistent head while eliminating the need for flow control devices
- Capacity proportional to speed, while pressure is independent of speed
- Uniform, non-pulsing flow for better control and system functionality
- $\mathbf{\mathbf{V}}$ *Low-shear* pumping action for shear sensitive products
- $\mathbf{\nabla}$ Robust construction allows for ease of maintenance

STUFFING BOX

- **Self-priming**, low NPSHr for optimal suction capability $\mathbf{\nabla}$
- Ability to pump products with large percentage of entrained gas $\mathbf{\mathbf{N}}$

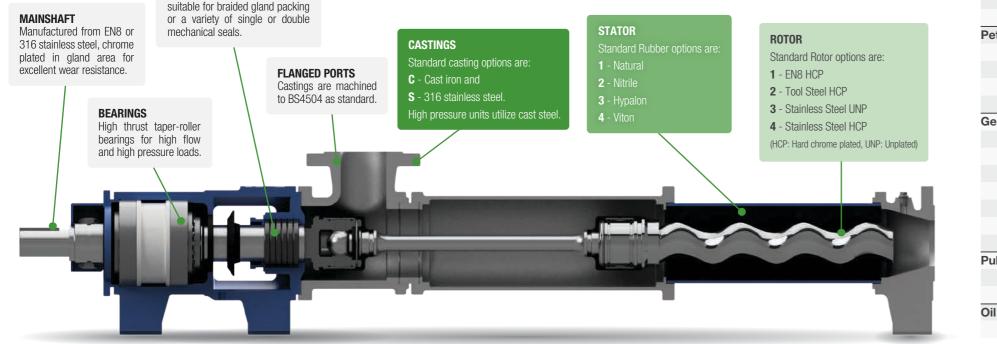
Manufactured as separate castings



Standard Sealed Universal Joint: standard o-ring or square seal ring designs provide adequate sealing protection against the ingress of foreign material into the universal joint; standard seals are suitable for handling most products in the industry



Fully Sealed Universal Joint: where neither ingress of chemical product nor contamination of the product by the lubricant within the joint can be tolerated. The fully sealed universal joint provides complete sealing protection. Typical applications are food products and explosive slurries



COMPATIBILITY GUIDE

		G	de Sto	6 Pt
Mining	Dewatering	С	2	1
	Coal Washing	С		2
	Gland Service	С	2	1
	Sludges (Alum)	С	2	4
	Oil (waste/reclaimed)	С	4	4
	Minewater (acidic)	S	2	3
	Minewater (alkaline)	С		4
Water & Waste	Flocculants (polyelec.)	С	2	4
	Lime Dosing (Slurry)	С		4
	Sludge Transfer	С	2	2
	Sewage sludge	С	2	2
	Abattoir Waste	С	2	3
	Tallow	С	2	4
Pharmaceutical	Soaps	С	4	4
	Detergents	S	2	3
Food	Fruit Pulp	S	2	3
	Glucose Syrup	S	2	3
	Honey	S	2	3
	Edible Oils	S	2	4
	Fish Paste	S	2	3
	Potato sludge	С		2
Beverage	Malt Extract	S	2	3
	Yeasts	S	2	4
	Wines	S	2	3
	Fruit Juices	S	2	3
Agriculture	Water (irrigation)	С	2	1
	Molasses	S	2	3
	Liquid Manure	С	2	2
	Produce Washing	С	2	1
Petrochemical	Polymers (acrylic)	С	2	4
	Adhesives (polyurethane)	С	2	4
	Lubricating oil (mineral)	С	2	4
	Diesel	С	4	4
	Ethanol	С		4
General	Clay Slip (Slurry)	C	1	2
	Cement (with vermiculite)	С		4/2
	Bentonite slurry	С		4
	Cutting fluids	С	4	4
	Methylated spirits	С	1	4
	Printing Ink	С	4	4
	PVA glue	С	2	4
	Toothpaste	S	2	4
Pulp & Paper	Stock Transfer	C	2	4
1	Starches (Paper coating)	C	2	4
	Coatings (latex)	C	1	4
Oil & Gas	Water Transfer	C	2	1
	Gas Oil	C	4	4

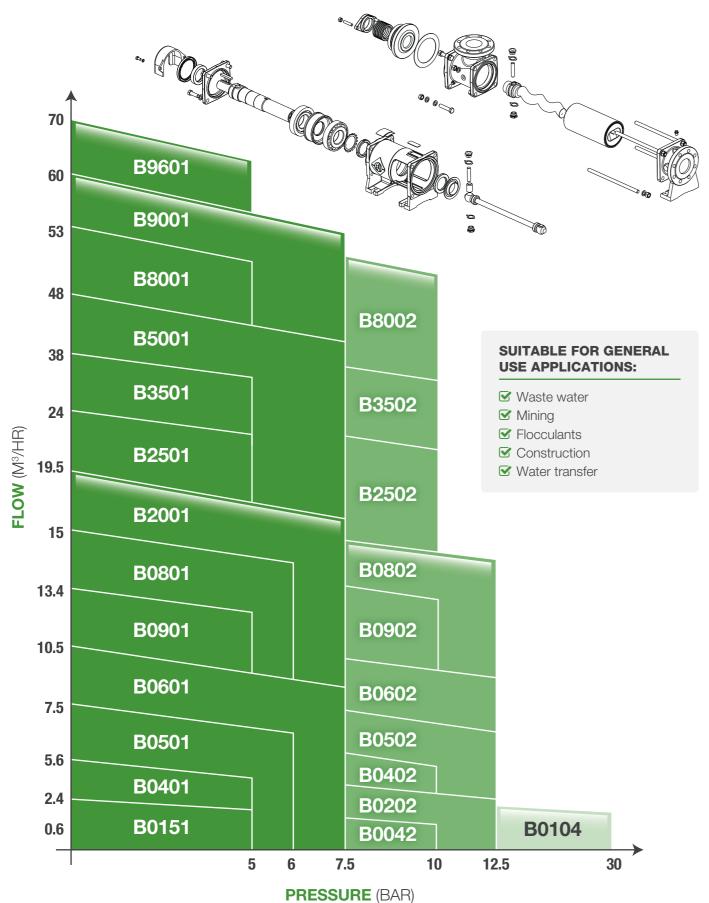
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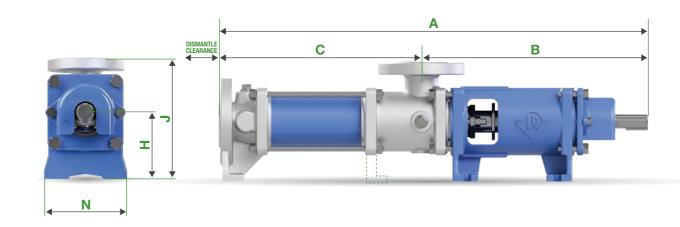
B RANGE HOLLOW SHAFT

Standard sealed joint, hollow shaft pump.



DIMENSIONS (mm)

Dump		Dismantle	
Pump Model	Α	Clearance	В
B0042	571	315	301
B0104	766	282	377
B0151	531	275	301
B0202	822	282	377
B0401	627	300	377
B0402	757	300	377
B0501	672	282	377
B0502	847	282	377
B0601	798	430	455
B0602	958	430	455
B0901	825	430	455
B0902	1040	430	664
B0801	717	282	377
B0802	1090	385	455
B2001	870	450	455
B2501	1041	510	604
B2502	1321	510	603
B3501	1041	510	604
B3502	1536	700	644
B5001	1338	700	644
B8001	1416	700	644
B8002	1866	1600	644
B9001	1481	800	644
B9601	1416	690	644



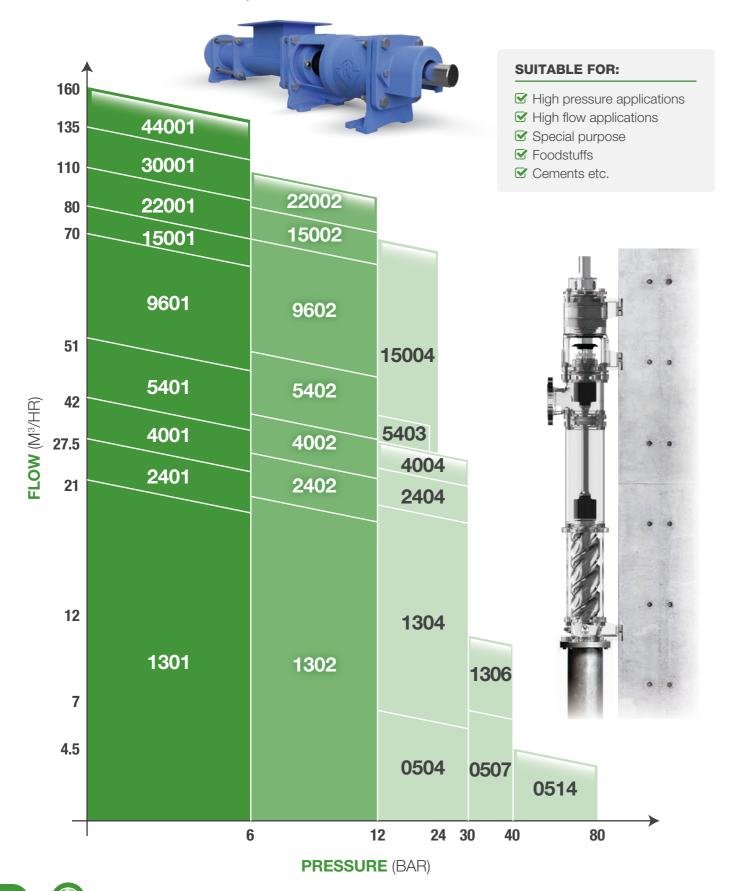
*All flanges BS4504



C	н	J	N
270	80	160	100
389	90	200	125
230	80	160	100
445	90	200	125
250	90	200	125
380	90	200	125
295	90	200	125
470	90	200	125
343	110	230	140
503	110	230	140
370	110	230	140
585	110	230	140
340	90	200	125
635	110	230	140
415	110	230	140
437	160	320	200
718	160	320	200
437	160	320	200
892	160	320	200
694	160	320	200
772	160	320	200
1222	160	320	200
837	160	320	200
772	160	320	200

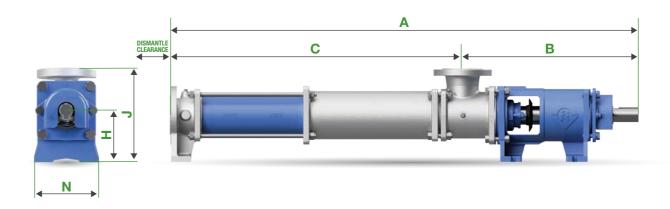
D RANGE SOLID SHAFT

Fully sealed joint, solid shaft pump. Available in wide throat with auger configuration, ideal for high viscosity applications as well as solids in suspension.



DIMENSIONS (mm)

Pump Model	А	Dismantle Clearance	В
D0504	1721	780	455
D0507	1830	950	603
D0514	2579	1030	603
D1301	1226	780	455
D1302	1466	780	455
D1304	2200	950	603
D1306	2259	950	603
D2401	1605	950	603
D2402	1980	950	603
D2404	2195	950	603
D4001	1605	950	603
D4002	1987	950	603
D4004	2436	1030	603
D5401	1670	950	603
D5402	2117	950	603
D9601	1669	950	603
D9602	2367	1030	603
D15001	1834	950	619
D15002	2329	1970	619
D15004	3891	3940	619
D22001	2388	520	824
D22002	2913	1050	824
D30001	2571	700	824
D44001	2913	1050	824



*All flanges BS4504

PIONEER PUMP

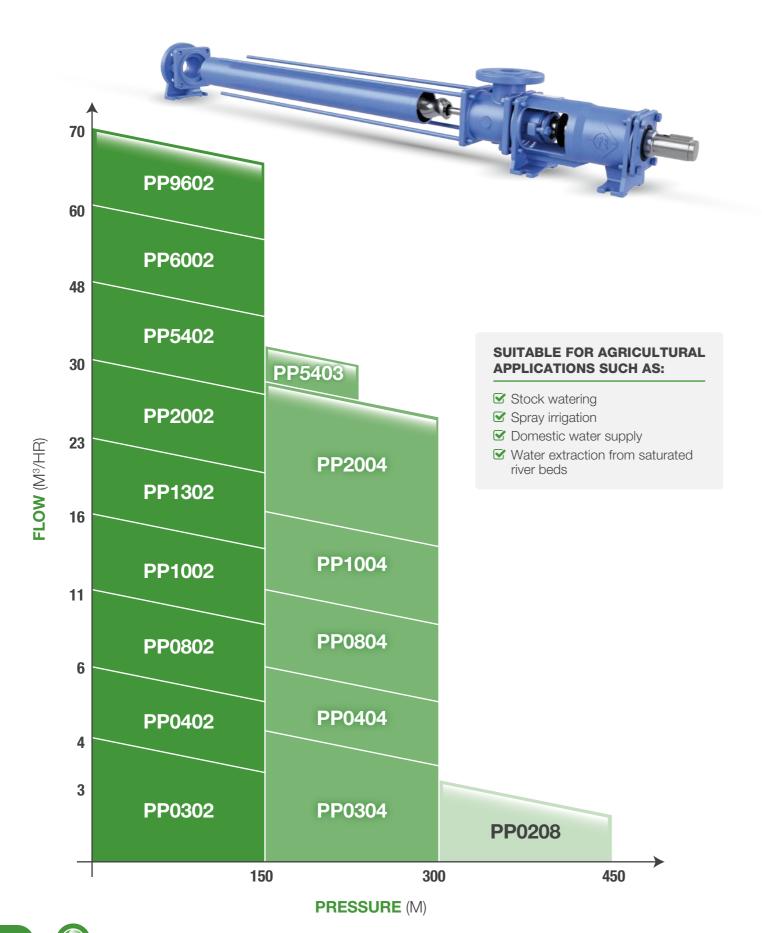
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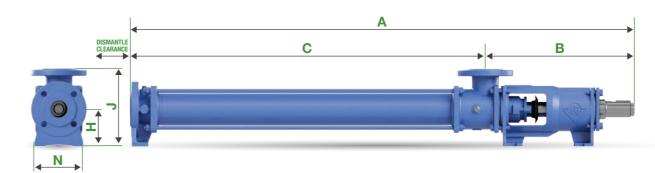
C	н	J	N
1266	110	230	145
1227	160	320	200
1976	160	320	200
771	110	230	145
1011	110	230	145
1597	160	320	200
1656	160	320	200
1002	160	320	200
1377	160	320	200
1592	160	320	200
1002	160	320	200
1384	160	320	200
1833	160	320	200
1067	160	320	200
1514	160	320	200
1067	160	320	200
1764	160	320	200
1215	160	320	200
1710	160	320	200
3272	160	320	200
1564	200	413	285
2089	200	413	285
1747	200	413	285
2089	200	413	285

PP RANGE FLEX SHAFT

Stainless steel flexible drive shaft, hollow shaft pump.



DIMENSIONS (mm)





*All flanges BS4504



C	н	J	N
721	90	200	125
507	90	200	125
721	90	200	125
638	90	200	125
898	90	200	125
707	110	230	145
927	110	230	145
807	110	230	145
1053	110	230	145
893	110	230	145
904	160	320	200
1213	160	320	200
1183	160	320	200



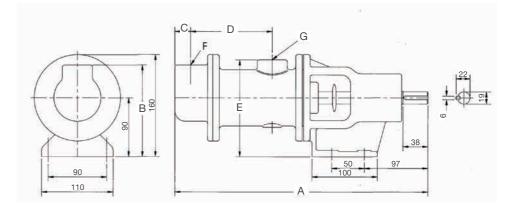
MINI-PUMP RANGE

Mobile self priming pump unit, available bareshaft or close coupled to electric motor

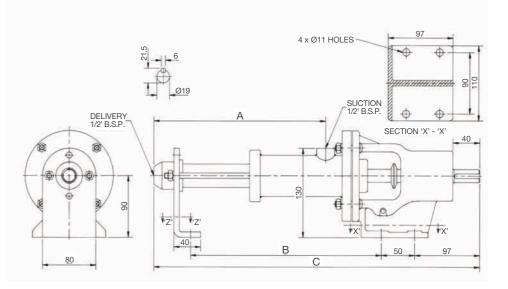


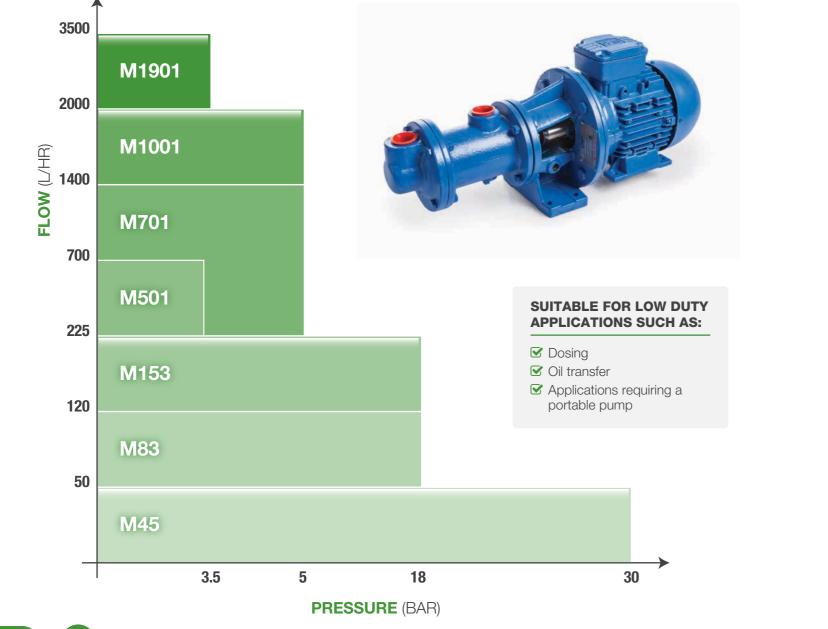
DIMENSIONS (mm)

Pump Type	A	В	C	D	E	F	G
CBM 501	400	145	22	128	145	3/4" BSP FEMALE (SUCTION)	3/4" BSP FEMALE (DELIVERY)
CBM 701	389	140	24	126	148	1" BSP FEMALE (SUCTION)	1" BSP FEMALE (DELIVERY)
CBM 1001	389	140	24	126	148	1" BSP FEMALE (SUCTION)	1" BSP FEMALE (DELIVERY)
CBM 1901	389	140	24	126	148	1" BSP FEMALE (SUCTION)	1" BSP FEMALE (DELIVERY)



Ритр Туре	A	В	C
CBM45	257	285	487
CBM83	257	285	487
CBM153	287	315	517







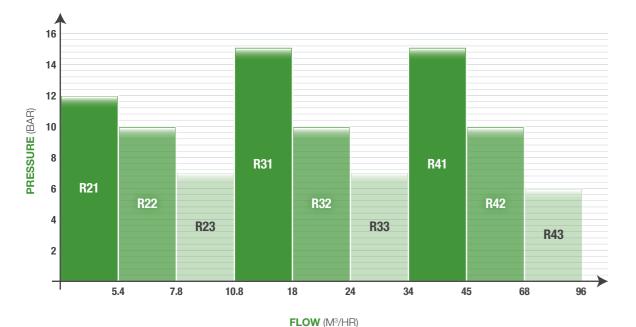


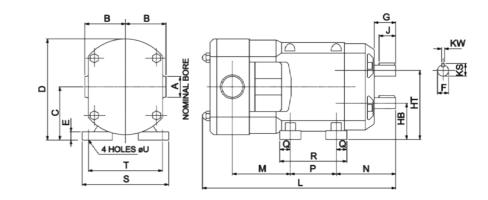
ROTORFLO ROTARY LOBE

Rotorflo rotary lobe pump is designed specifically for hygiene-conscious process industries. The compact Rotorflo series is manufactured to international standards, with all wetted parts in 316 stainless steel. The low-shear characteristics of the Rotorflo ensure the efficient transfer of all liquid viscosities up to semi-plastic, including delicate suspended solids, aggressive slurries, pastes, froths and gas/liquid mixtures without damaging the product.

FEATURES

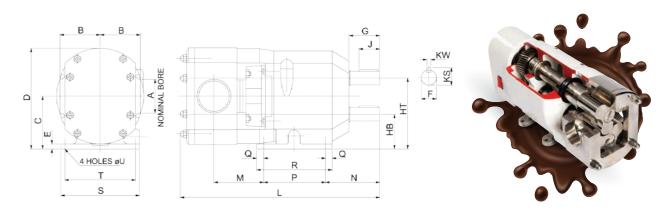
- Shafts are made of heavy-duty, large-sectioned **stainless steel** for less deflection and enhanced rigidity
- Solution Low-shear characteristics protect delicate products
- Section 2 Positive displacement technology ensures efficient transfer of all liquid viscosities
- The pumping chamber is *fully swept*, ensuring no product entrapment
- ✓ O-ring seal profiled to the edge of pumping chamber. Most covers are flush, minimising areas where bacterial growth can occur
- ✓ Full diameter porting supplied as standard. Fittings available to suit customer specification. Enlarged inlets for hopper feed also available
- Solution The gear housing is manufactured from robust cast iron
- Keyed gears produce a positive drive to ensure that timing does not have to be reset when rotors are changed
- ☑ O-ring seals on rotor keep splines free of product contamination
- Solution The front cover can be supplied with a pressure relief valve built in to protect against overload
- Heat jackets available for product being pump at temperature
- Helical gears time the main and lay shafts to maintain accurate clearances between the rotors. These clearances ensure high volumetric efficiency and increased suction
- Solution The spigotted rotor case is positively located on the bearing housing, eliminating loose dowels
- ☑ The 12-involute spline configuration ensures accurate positioning of rotors during assembly





	A	B	C	D	E	F	G	HB	HT	J	KS	ĸw	L	М	N	P	Q	R	S	Т	U	MASS KG
R21S	25												275	57								17.6
R21L	20												300	84								17.0
R22S		66 5	88	167	14	20	36	60	116	26	22.5	6x6	285	59	101	75	17.5	110	144	124	10	18
R22L	40	00.0	00	107	14	20	50	00	110	20	22.0	0.00	310		101	15	17.0	110	177	124	10	10
R23S	-10												295	70								19
R23L													320	97								15

	A	B	C	D	E	F	G	HB	HT	J				М	N	Р	Q	R	S	Т	U	MASS KG
R31S	40												385	74								42
R31L	40												420	109								42
R32S	50	85	108	215	1/	30	60	60	1/17	10	22	8x7	400	80	1/12	112	17.5	1/17	17/	15/	10	44
R32L	50	00	100	215	14	50	00	09	147	40	55	0.1	435	116	145	112	17.5	147	174	134	10	44
R33S	65												420	92								47
R33L	00												455	126								11



	A	В	C	D	E	F	G	HB	HT	J	KS	ĸw	L	М	N	Р	Q	R	S	Т	U	MASS KG
R41	65												520	104								112
R42	80	118.5	157	300	15	45	84	103	211	60	48.5	14x9	545	122	155	180	20	220	240	200	14	117
R43	100												575	140								126

PIONEER PUMP



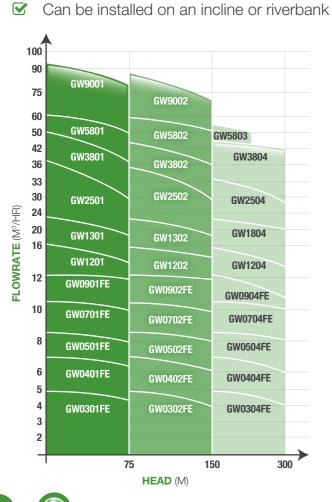


TSUNAMI AXIAL FLOW PUMP

The Orbit GW range of pumps offers reliable performance over a broad range of heads and speeds. The abrasion-resistant pump also features low noise and vibration levels.

FEATURES

- S Discharge head suitable for drive by electric motor (AC/DC/solar), petrol or diesel engine, tractor or rotary windmill driver
- Flow is proportional to speed
- High developed head allows irrigation directly from borehole $\mathbf{\nabla}$
- Stainless steel flexible shaft and bearing pieces
- Rubber stabilizers centralize pump and columns firmly in the borehole $\mathbf{\mathbf{N}}$
- Pressure head developed is independent of pump speed
- Abrasion-resistant
- High load capability and angular contact thrust bearings in discharge head allow for pump setting depths of up to 300m
- High tensile drive shafts with rolled threads
- Stainless steel, precision-ground flexible shaft
- Stainless steel bearing pieces
- Truncated parallel threads on pump and columns ensure high strength with perfect fit and alignment



APPLICATIONS:

- Sesidential
- Commercial
- S Agricultural
- Mining
- Marine
- Municipal
- ✓ Industrial
- ☑ River water extraction

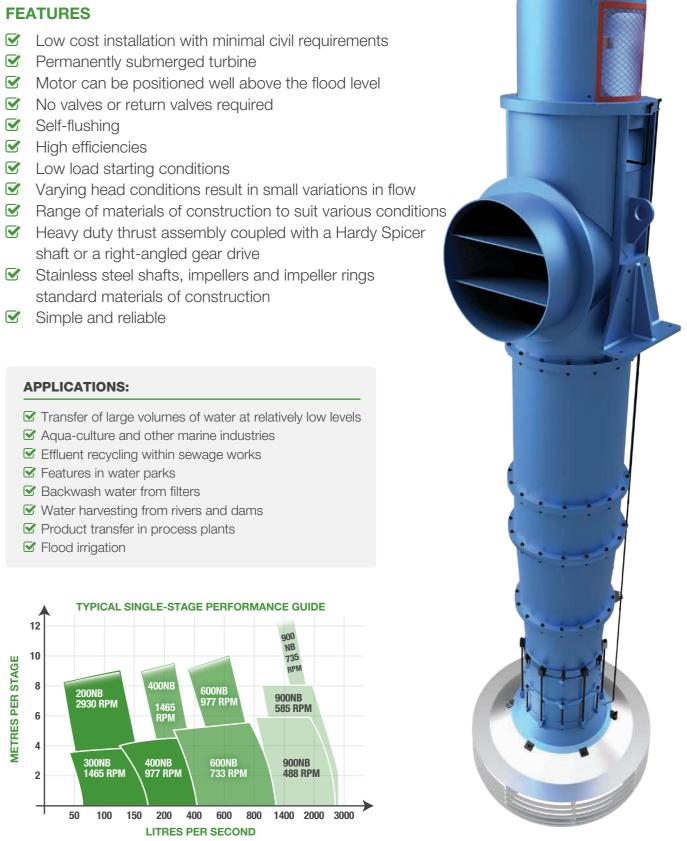


The Tsunami axial flow pumps are engineered and designed to move large volumes of water at relatively low heads.

FEATURES

- Permanently submerged turbine
- No valves or return valves required
- Self-flushing
- High efficiencies
- Solutions Low load starting conditions

- shaft or a right-angled gear drive
- standard materials of construction
- Simple and reliable



PIONEER PUMP



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