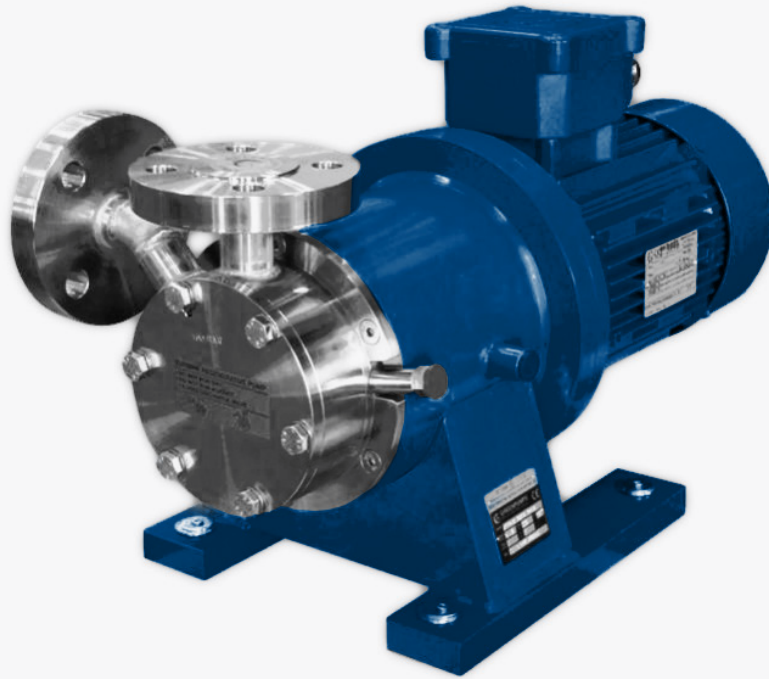


Alloy Turbine Pump



» TECHNOLOGY INNOVATION & RELIABILITY

Tapflo is specialised in the design and application for water treatment, pharmaceutical, chemical, petrochemical and refinery applications.

We continue every day to lead the way in providing the most reliable sealless pumps available with the latest technology.

"1990 EPA Clean Air Act".

» BENEFITS

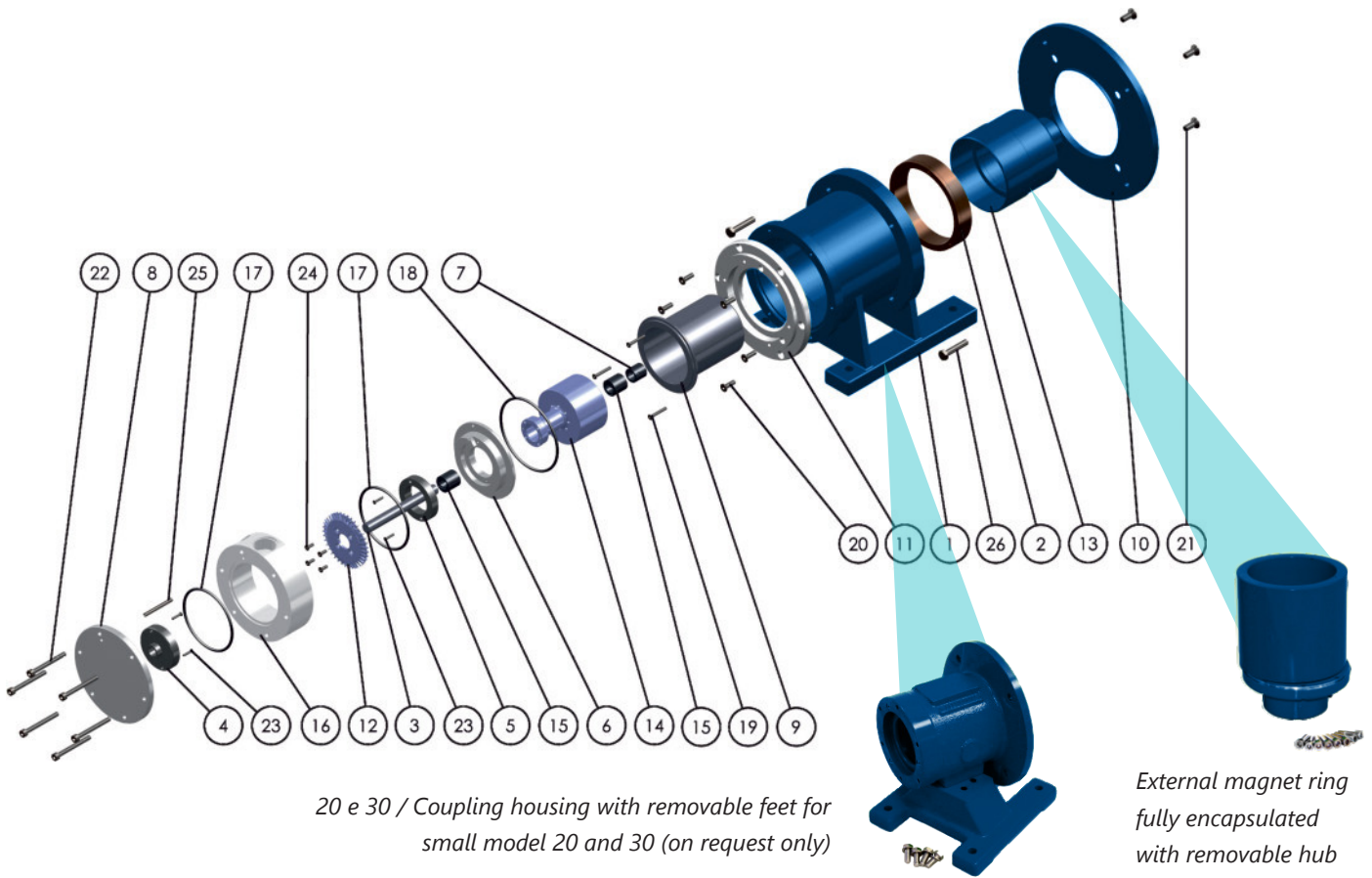
Our Alloy Turbine Pumps are precision-engineered Centrifugal Pumps designed for low flow and high head applications. Featuring robust construction features, these pumps offer a reliable solution with zero leakages even in extreme working conditions.

The elimination of mechanical seals or packing glands ensures an environmentally friendly operation, safeguarding workers and the surroundings. Constructed from a range of material options including Stainless Steel AISI 316L, Incoloy 825, Alloy 20, Hastelloy C-276, Duplex/ Super Duplex, Titanium as well as additional materials available on request.



» FEATURES & BENEFITS

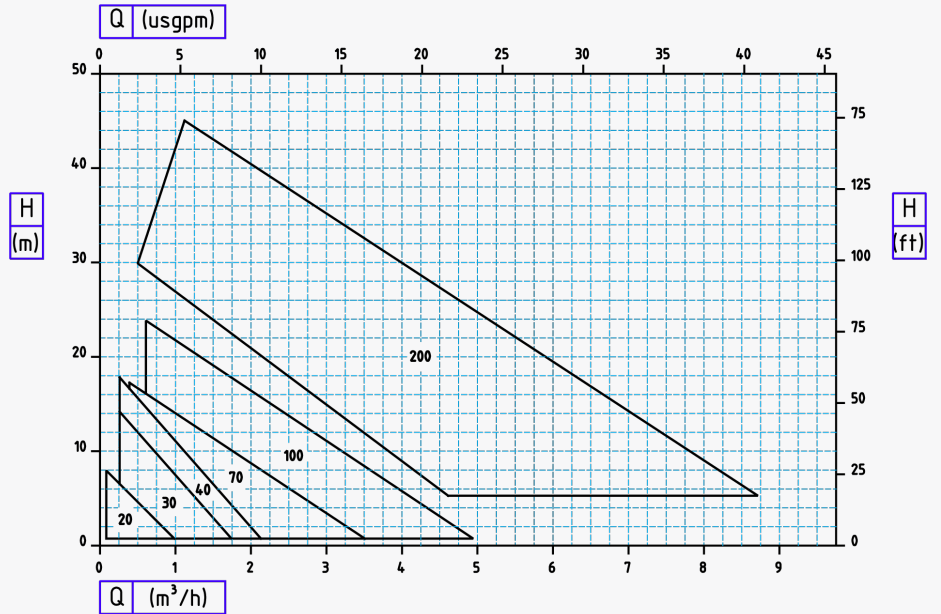
- The GPTA series can maintain design head and flow for an extended running period, offering dependable and consistent performance
- The multi-vanes self-balancing impeller eliminates thrust loads, allowing the pump to be started with a completely open discharge valve
- Suitable for thin, non-lubricating mediums with a very low Net Positive Suction Head (NPSH) available value
- Head up to 200 m (656 Feet) @ 50 Hz / up to 240 m (787 Feet) @ 60 Hz Flow up to 16 m³/h (70 GPM) @ 50 Hz / up to 17 m³/h (74 GPM) @ 60 Hz
- Operates within an extensive temperature range from -100°C (-150 °F) up to 315°C (600°F)
- Supports specific gravity up to 2 kg/dm³
- Standard rating at 16 bar (232 PSI), with special designs available for up to 450 bar (6500 PSI) and beyond
- Provides flexibility with reversible rotation for various applications
- Can be used as a mixer for liquids with different characteristics
- Fully encapsulated external magnet
- Bronze rub ring
- Heavy-duty machined pressure parts
- Low maintenance costs resulting from easy removable pedestal for all frames and well-engineered design
- High MTBF (Mean Time Between Failure)
- High Torque Cobalt Samarium Magnets ensures powerful and consistent performance
- In compliance with ATEX regulation category EX II 2 G, ensuring adherence to safety standards



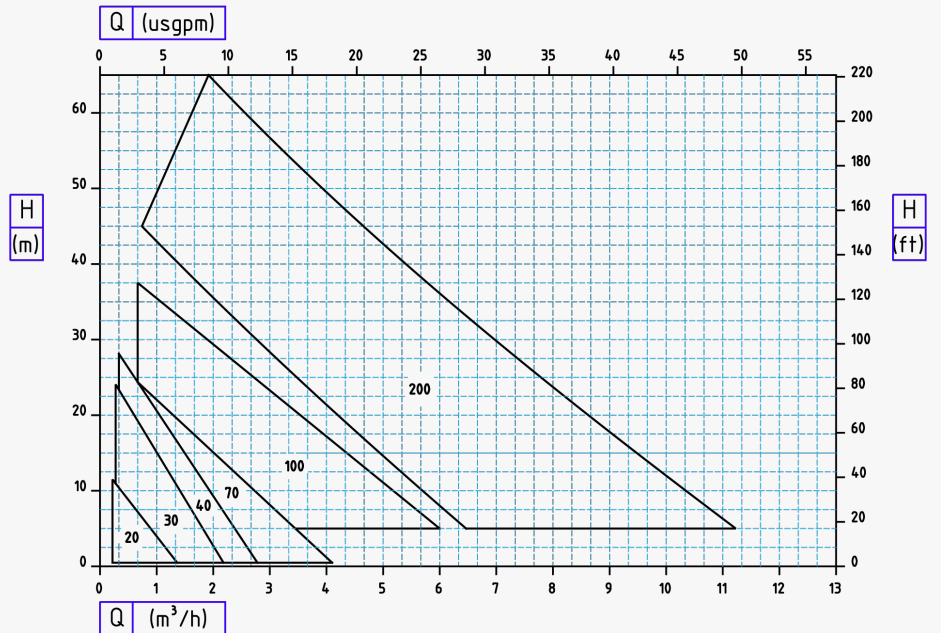
Ref.	Description	Ref.	Description
1	Coupling housing	14	Internal magnet ring
2	Rub ring screw	15	Int. mag. ring front/rear bearing
3	Impeller shaft	16	Pump casing
4	Front thrust bearing	17	Front/intermediate O-Ring
5	Rear thrust bearing	18	Rear O-Ring
6	Rear ring	19	Rub ring screw
7	Containment shell bearing	20	Coupl. hous. front flange screw
8	End cover	21	Coupl. hous. rear flange screw
9	Containment shell	22	End cover screw
10	Coupling housing flange	23	Front-rear thrust bearing screw
11	Coupling housing front flange	24	Impeller screw
12	Impeller	25	Alignment end cover pin
13	External magnet ring	26	Coupling housing feet screws

Design Curves

» Alloy Turbine Pump
1450 rpm 50hz

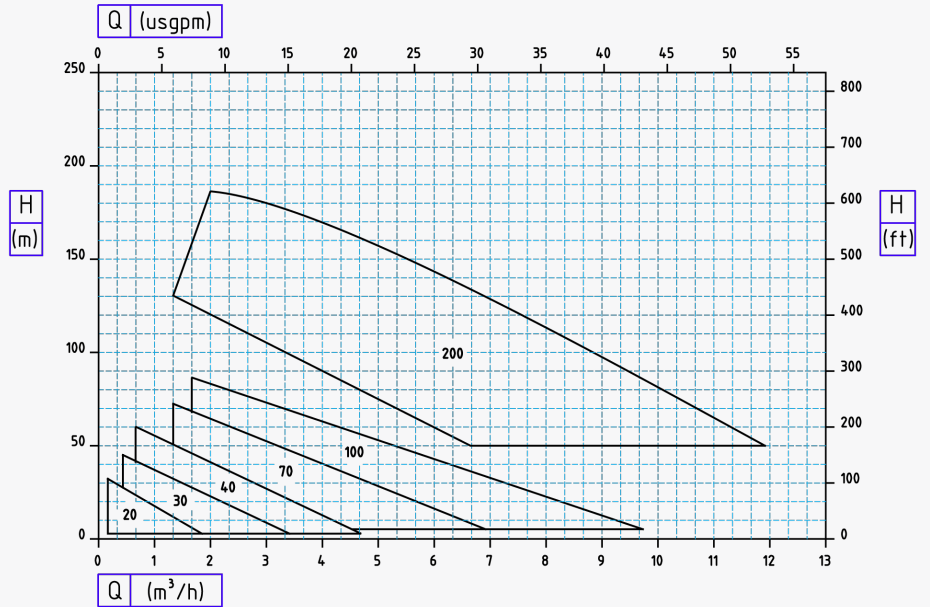


» Alloy Turbine Pump
1750 rpm 60hz

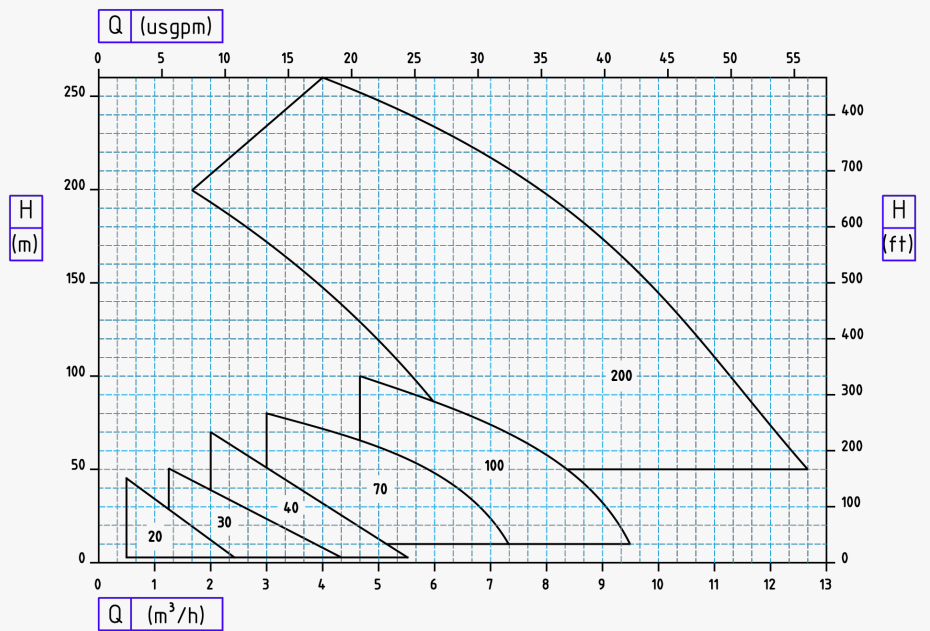


Design Curves

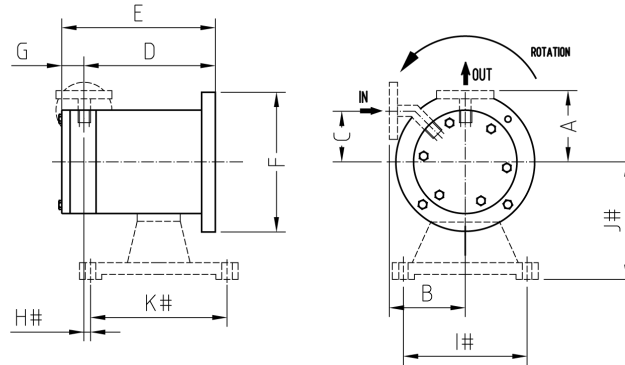
» Alloy Turbine Pump
2900 rpm 50hz



» Alloy Turbine Pump
3500 rpm 60hz

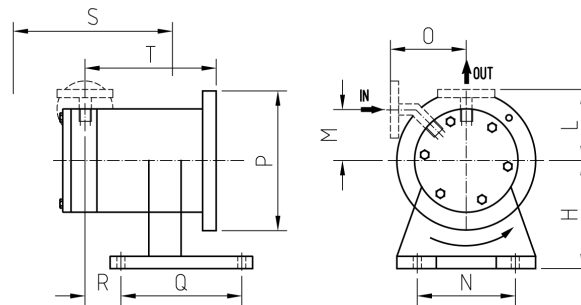


Overall Dimentions



ON REQUEST ONLY

PUMP TIPE	OVERALL DIMENSION											PORTS		mm	inches
	A	B	C	D	E	F	G	H	I	J	K	TRD	FLG	WEIGHT	
												1/2" FPT	DN 15		
20	88	88	54	150	198	160	23	37	140	117	160	1/2" FPT	DN 15	5 Kg	
	3"1/2	3"1/2	2"1/8	6"5/8	8"3/8	6"5/8	7/8"	1.456"	5.512"	4.606"	6.3"	1/2" NPT	DN 1/2"	lbs11	
30	100	98	61	155	207	200	25	31	140	126	160	3/4" FPT	DN 20	6Kg	
	4"	3"7/8	2"3/8	6"3/4	8"5/8	6"5/8	1"	1.22"	5.512"	4.961"	6.3"	3/4" NPT	DN 3/4"	lbs14	



PUMP TIPE	OVERALL DIMENSION										PORTS		mm	inches
	H	L	M	N	O	P	Q	R	S	T	TRD	FLG	WEIGHT	
											1" FPT	DN 25		
40	136	111	66	155	111	200	192	69	244	186	1" FPT	DN 25	15 Kg	
	/	4"3/8	2"5/8	/	4"3/8	7"7/8	/	2"3/4	9"5/8	7"1/2	1" NPT	DN 1"	lbs32	
70 100	175	133	86	220	133	250	250	55	272	214	1" FPT	DN 25	19Kg	
	6"7/8	5"1/4	3"3/8	8"5/8	5"1/4	9"7/8	9"7/8	2"1/4	11"1/8	9"	1" NPT	DN 1"	lbs42	

Construction materials

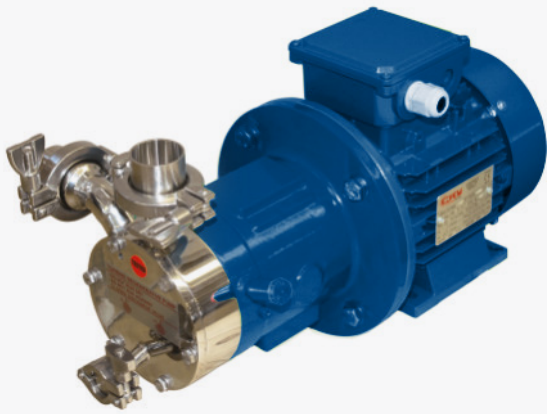
- Stainless Steel SS316L
- Incoloy 825™
- Alloy 20™
- Hastelloy C-276™
- Duplex / Superduplex
- Titanium
- Other materials on request

Typical services

- Pumping dangerous and radioactive liquids
- Transfer of solvents, acids, alkalis, refrigerants
- Heat transfer oil and explosive fluids
- Pilot plants
- Mechanical seal flushing
- Chemical processing
- Hydrocarbon processing/Refining
- Municipal (scrubber system)
- Biofuels
- Pulp and Paper
- Pharmaceutical
- Biochemical

Options & special executions

- Flanged ports ISO/ANSI
- Tri-clamp ports
- High-temperature design
- Low-temperature design
- High-pressure design
- Special polished finishing
- Jacketed coupling housing
- Jacketed end cover
- Thermowell



Close coupled pump for hygienic applications



Special execution for high temperature