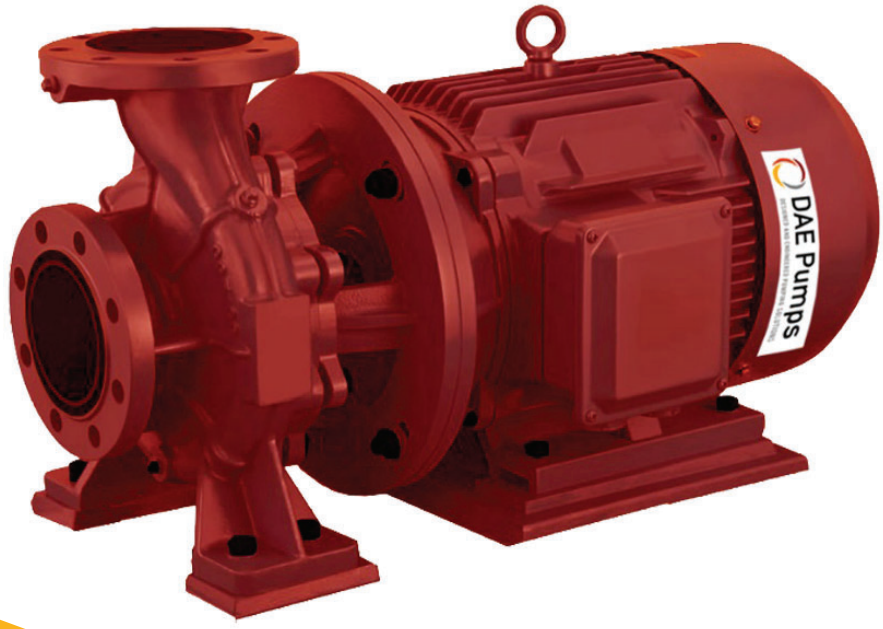
DAE Pumps

DESIGNED AND ENGINEERED PUMPING SOLUTIONS

H1412 Flooded Suction Pump

Metal Liner And Impeller



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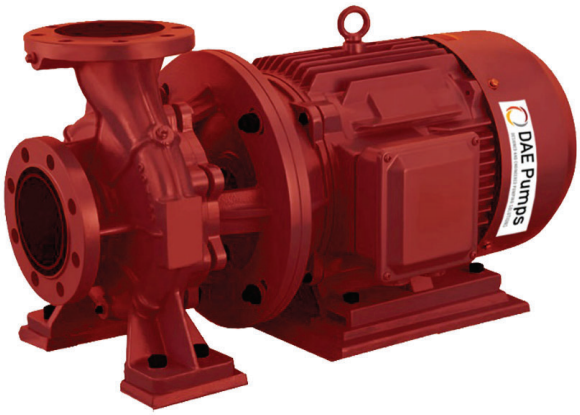


H1412 Flooded Suction Pump

Heavy duty, horizontal slurry pumps. High efficiency transfer of abrasive and high-density slurries with extended wear life and reliable service intervals

VERSATILE HEAVY-DUTY SOLUTION

DAE Pumps H1412 flooded suction pumps are heavy duty horizontal slurry pumps designed to handle the transfer of abrasive and high-density slurries in mining and heavy industry.

H1412 pumps feature a rugged cast iron construction with replaceable wear liners available in 27% chrome white iron, rubber or urethane to suit a wide range of applications, slurry types and consistencies.

The H1412 pumps are 12-inch discharge and feature high efficiency performance capable of flow rates up to 16000 GPM and a head up to 213 ft.

They are designed to be interchangeable with the most common slurry pump footprints used by the mining industry.

H1412 pumps are manufactured using the highest quality materials to ensure reliability and extended service life in heavy duty applications. H1412 pumps are manufactured with a rugged cast iron outer casing which features reinforcing ribs for excellent high-pressure strength and safety.

WEAR LINERS

A range of replaceable wear liners are available in 27% chrome white iron, rubber or urethane to suit the requirements of specific applications and slurry types. Wear liners are easily replaced when required by simply removing the front cover plate bolts and sliding off the front cover. This allows minimal downtime and simple servicing for maintenance staff.

FEATURES

14" Intake / 12" Discharge

16,000 GPM

Over 213 Ft. Head

27% Chrome White Iron

IMPELLERS

The impeller features pump-out vanes on the rear face to prevent recirculation. Impellers are available in 27% chrome white iron or rubber to suit the requirements of the pumped product and are easily accessible by simply removing the front cover plate bolts and sliding off the front cover.

EXTERNAL IMPELLER ADJUSTMENT

An external impeller adjustment bolt is located under the bearing assembly and is easily accessible. This allows for changes to be made to the impeller clearance to maximize efficiency and service life without removing the front cover plate or disconnecting pipework or the bearing assembly. The system allows quick and simple adjustments to be made to compensate for wear and changes in operating conditions and duty points.

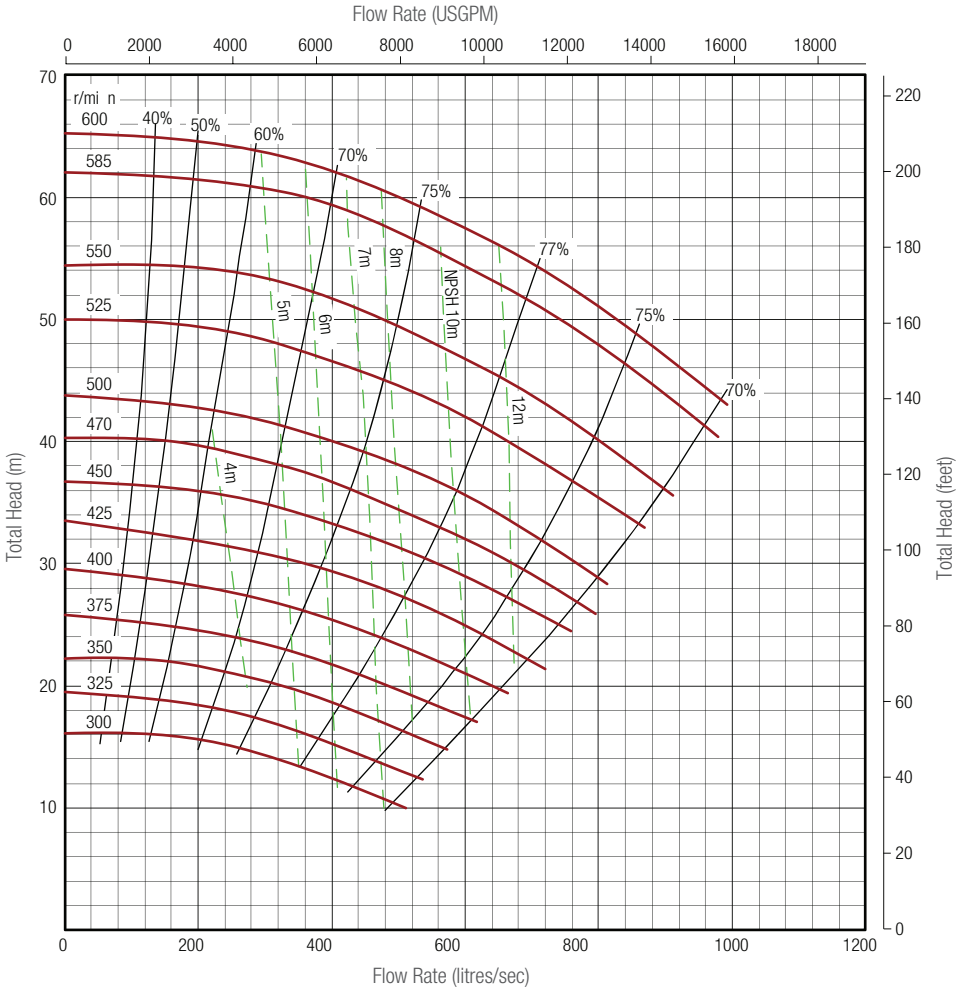
H1412 Flooded Suction Pump

Specifications

Inlet/Outlet	Bearing Frame	Max Power	Max Particle Size	Impeller	No. of Vanes	Impeller Material	Impeller / Vane Dia.	Wear Liner Material
14" / 12"	ST	750 HP / 560 kW	3.5" / 90 mm	FAM12147 G12147	5	27% Chrome White Iron	38" / 965 mm	27% Chrome White Iron
	T	1610 HP / 1200 kW						

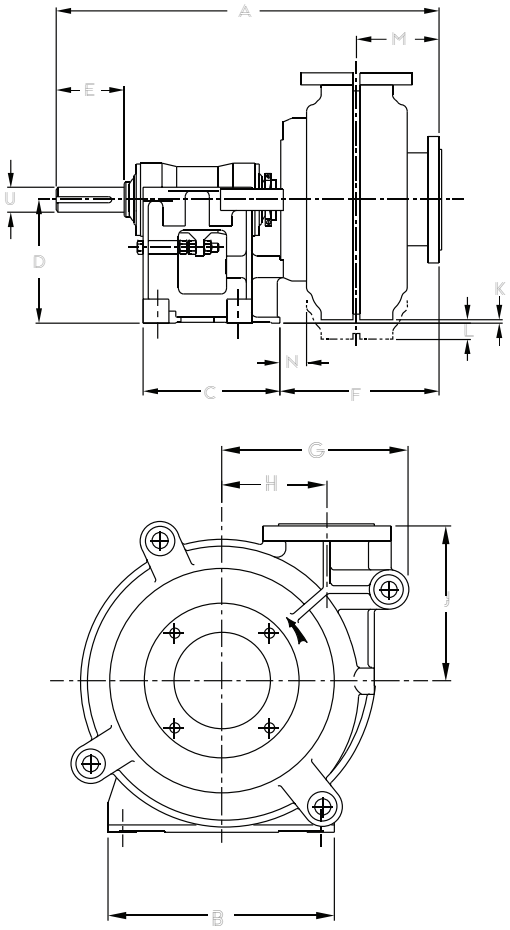
	Dimensions (mm)														Weight
	A	B	C	D	Key	E	F	G	H	J	K	L	M	N	U	Metal
14x12 F	1772	991	705	610	28x16	279	803	937	629	832	-	263	406	105	100	5847 kg (12,890 lbs)
14x12 ST	1873	1150	780	650	32x18	280	812	937	629	832	-	224	406	114	120	6396 kg (14,101 lbs)

Pump Curve

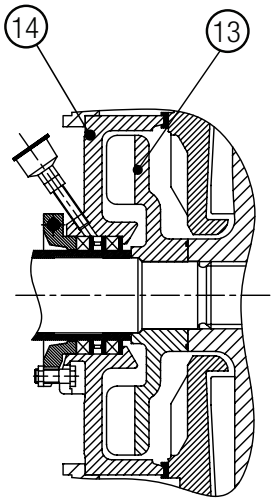


Performance curve is for clean, cold water only. Contact us to discuss pump selections for specific applications.

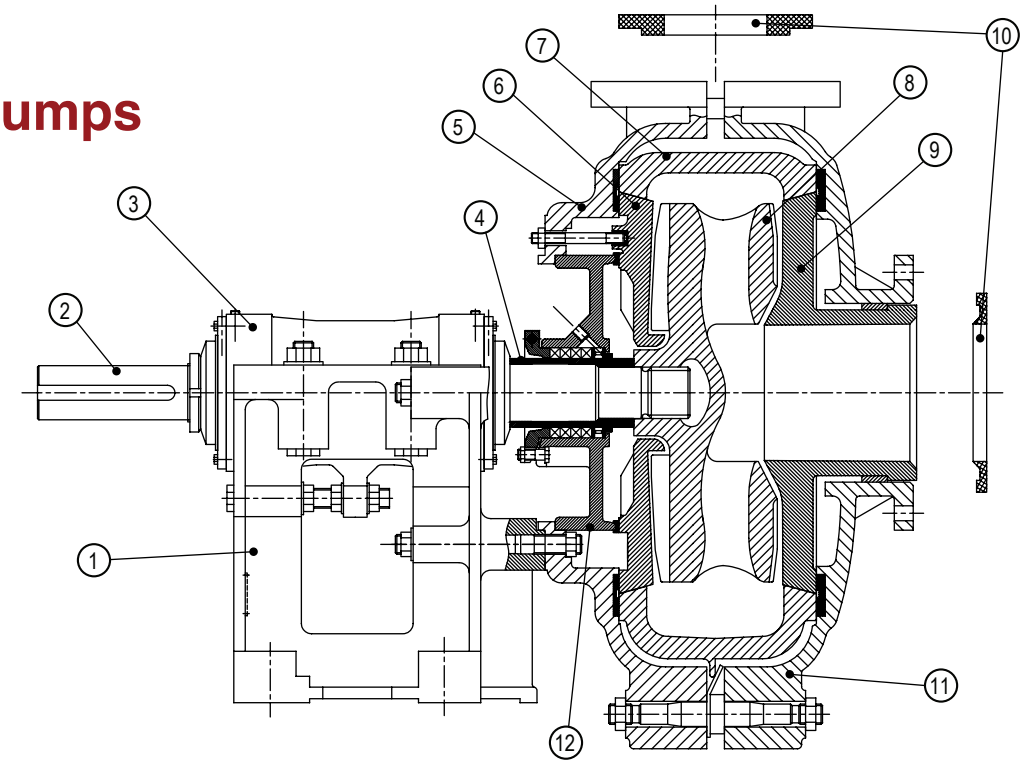
Dimensions



Materials
Metal Lined Pumps



METAL EXPELLER



No.	Part Description	Material Specification
1	Base	Cast Iron
2	Shaft	4140 High Tensile Steel*
3	Bearing Assembly	Timkin (Cast Iron Body)
4	Shaft Sleeve	420 Stainless Steel
5	Pump Casing	Cast Iron
6	Frame Plate Liner	27% Chrome White Iron
7	Volute Liner	27% Chrome White Iron
8	Impeller	27% Chrome White Iron
9	Throat Bush	27% Chrome White Iron
10	Joint Rings	Rubber
11	Cover Plate	Cast Iron
12	Stuffing Box	Cast Iron
13	Expeller	27% Chrome White Iron
14	Expeller Ring	Natural Rubber
	Bolts	Zinc Plated Steel
	O-rings	Nitrile Rubber
	Seals	Rubber

* Other shaft material options are available.