



Description

ACME HVSF centrifugal pumps are of single-stage horizontal split case, double suction design. It meets and exceeds the requirements of NFPA 20 and fully compliant with latest requirement of FM approval standard. They are engineered and built to ensure reliable and safe performance while providing continuous service life at an efficient cost.

Features

Cast iron casing fitted with ASA 250# or PN 50 suction and discharge flanges to match the piping system. They are integrally cast into the lower half casing. This allows for removal or rotating assembly without disturbing the piping system.

Precision cast and dynamically balanced double suction impellers in 304 stainless steel construction reduce vibration and ensure smooth operations over a wide range of flow.

Heavy-duty, 416 SS stiff solid shaft design with short span between bearings minimizes shaft deflection and extends packing and bearing life.

304 stainless steel replaceable shaft sleeves are fitted to protect the shaft against corrosion and wear.

Renewable bronze casing wear rings are fitted as a standard with optional impeller wear rings.

Heavy-duty, deep grooved ball bearings with a minimum 100,000 hours L-10 rated bearing life ensures long life and reliability.

ACME unique stuffing box design permits the use of packing or mechanical seal. Seal maintenance can be done without disturbing the pump casing.

Material Specifications 材质规格

Part	Standard	Standard Accessories *
Casing	Cast Iron	
Case Wearing Rings	Bronze	Automatic air release valve
Impeller	304 Stainless Steel	Casing relief valve
Shaft	416 Stainless Steel	(for electric motor driven unit)
Shaft Sleeves	304 Stainless Steel	Suction and discharge gauges
Gland	304 Stainless Steel	with shut-off valves

* Available in 304, 316, 316L and Duplex Stainless Steel.

* Optional Accessories : Flow meter, Main relief valve, Hose valve, Waste cone, suction reducer, and discharge increaser



概述

Acme 奥米泵业的 HVSF 水平中开泵采用双流道设计, 与其它同类型泵相比具有寿命长、效率高、结构合理、运行成本低、安装及维修方便等特点。已经达到并超过 NFPA 20 的要求, 是消防、空调、化工、水处理、船用及其它行业的理想用泵。

产品特点

泵体流道为蜗壳形, 确保流体在泵体内流速均匀。泵体的设计压力为 ASA 250# 和 5.0MPa。泵体为水平中开结构, 泵体的进出口法兰均位于下泵体, 这样可以在不拆卸系统管路的情况下取出转子, 进行维修。

双吸式叶轮材质为 304 不锈钢, 全部采用精密铸造工艺, 使流道表面粗糙度为 Ra25 或更小。在结构设计上, 叶轮、轴套与轴采用可靠地键联接, 并用锁紧螺母在填料体外部锁定, 易于定位。对整个泵的转子进行动平衡, 确保运行平稳。

轴径较粗, 轴承间距较短, 从而减少轴的挠度, 保证轴在机封处的挠度小于 0.05mm, 延长了机封和轴承的寿命。轴材料为不锈钢, 采用精磨工艺。轴径在两轴套螺母之间的名义尺寸相同, 以减少由于尺寸差造成的应力集中。

可换式轴套采用 304 不锈钢材料, 以防止轴被腐蚀和磨损。轴套嵌于叶轮两端并伸出于密封腔之外, 轴套与轴之间采用轴套螺母进行轴向定位, 易于调试安装。叶轮与轴套之间的密封采用 O 型密封圈密封。

泵体与叶轮均配有可更换的磨损环, 防止磨损, 维修费用低。泵体磨损环标配为铜, 叶轮磨损环为选择性安装。

重型轴承箱设计, 确保轴承寿命和可靠性, 选用的深沟球轴承设计寿命为 10 万小时以上。

填料体—Acme 独特的填料体设计既可以使用填料也可以使用机械密封, 可以在不拆卸泵盖的情况下更换密封装置。

NFPA-20 Fire Pumps

