

HOMA

P U M P T E C H N O L O G Y



The following is a comparison between HOMA Pump and Flygt Pump when Flygt Pump are specified, HOMA Pump meets or exceeds the specification language.

Point #	FLYGT	Meet/ Exceed	HOMA Pump
1	Pump Casing shall be made of high tensile close-grained cast iron, ASTM 48 Class 35B	<u>EXCEED</u>	Class 40B
2	Motor windings shall be open type with Class F insulation designed for Class I, Division I, Group D Hazardous Locations	<u>EXCEED</u>	Most motors available for Class 1, Div I, Grp C & D Hazardous Locations with FM Approval and label
3	Motors shall be air filled, submersible, NEMA type	<u>MEET</u>	
4	Shaft seals shall consist of two mechanical seals mounted in tandem, with an oil chamber between the seals. The rotating faces of the seals shall be carbon or tungsten carbide and the stationary faces shall be ceramic or tungsten carbide.	<u>EXCEED</u>	Commercially available Burgmann type MG1 mechanical seals Tandem seal arrangement Solid Silicon carbide seal faces for superior abrasion and temperature resistance.
5	The motor shall be protected from excessive temperature by a built-in automatic overload protection. The heat-sensor thermostats embedded in the motor windings shall open when the temperature in motor rises to over 220F and automatically reset when the temperature drops to safe limit. The overload shall be connected in series with the starter coil so that the starter is tripped if the overload opens.	<u>MEET</u>	Fully submersible motor with class H insulation, degree of protection IP 68. Thermal sensors embedded in the winding.
6	Motors shall be of sufficient horsepower for operation anywhere on the pump head-capacity curve without overloading, with a 1.15 service factor based on the nameplate rating.	<u>MEET</u>	
7	Motor ball bearings shall be designed for minimum B-10 life of 30,000 hours	<u>EXCEED</u>	Heavy duty pre-lubricated and sealed ball bearings 100,000 HOURS RATING
8	Design each pump shaft with ample provision to compensate for pump thrust and for overhung load on impeller. Shafts to be stainless steel.	<u>MEET</u>	
9	Non-clog pump impellers shall be cast iron, Class 35B, enclosed, symmetrical, balanced type with vanes or blades, having a wide suction that will easily pass a minimum of a 3-inch sphere. Make impeller vanes free from sharp edges and waterways with smooth contours and well-rounded entrances. Impeller shall be driven by stainless steel locknut, or by an equally efficient method permitting easy removal of impeller.	<u>EXCEED</u>	CLASS 40B WE WILL PASS A 3-INCH SPHERE AND MAINTAIN EFFECIENCY
10	Provide moisture sensing probes in oil filled seal chamber	<u>EXCEED</u>	Large oil chamber with seal probe and second probe in stator Housing.
11	Provide stainless steel chain to raise or lower pump. The chain shall be sized according to the pump weight.	<u>MEET</u>	
12	Iron Castings, Shapes and Bars: ASTM A48 of suitable class for intended purpose.	<u>MEET</u>	
13	Discharge connection shall be cast iron, rigidly bolted to floor with stainless steel cinch anchors; machined to receive yoke and face of the pump discharge; discharge connection also shall hold the lower ends of the guides.	<u>MEET</u>	
14	Sealing design shall incorporate metal-to-metal contact.	<u>EXCEED</u>	METAL TO GASKET NO LEAKAGE

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Each pump shall be arranged to automatically clamp the pump discharge to the discharge connection when lowered along guides

EXCEED

HOMA sytem Pivots without wear