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Series 6U/6T

Imo Products

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The **6U** series pump is intended primarily as a high pressure fluid power pump. It is available foot or flange mounted and is suitable for cyclic pressure service.

The **6T** series is produced in a cast steel casing with a combined foot/flange mounting arrangement. The pump is primarily used for medium pressure gas sealing applications on compressors.

6U/6T SERIES	Nominal flow rate, GPM/LPM, at 2500 PSI (172 BAR), 200 SSU (43 CST)				
	SPEED RPM				
Size	3500	2900	1750	1450	1150
118*	16/59	12/45	-	-	-
137	26/98	20/75	-	-	-
156	39/150	31/116	14/52	-	-
187P	55/210	43/164	20/75	-	-
187	72/271	56/214	27/103	20/74	-
200	88/334	70/264	34/130	25/95	-
218	118/446	94/354	47/178	35/132	23/87
250	180/682	144/545	75/283	57/214	39/146

*6U only

Series 6U/6T Specifications

Casing- 6T: Cast alloy steel. 6U: High tensile, close grain cast iron

Rotor Housing- Pearlitic gray iron

Power Rotor- Alloy steel, hardened and thread ground.

Idler Rotors- Alloy steel or Pearlitic cast iron, hardened and thread ground.

Gaskets- Cellulose and non-asbestos fiber.

Seal & Bearing- Fluoroelastomer bellows mechanical seal with carbon on niresist faces and an external, permanently grease packed, deep groove ball bearing. Carbon on carbide seal faces available on 6T series.

Accessories- Completely mounted, built to order pump/driver assemblies are available with baseplates, etc.

Outlet Pressure- 2500 PSIG (172 BAR) maximum. 3000 PSIG (207 BAR) under certain conditions. Consult Imo Pump. Minimum recommended differential pressure is 50 PSIG (3.4 BAR).

Inlet Pressure- 6T: 75 PSIG (5.2 BAR) maximum, sizes 137 & 156. All others, 50 PSIG (3.4 BAR) maximum. 6U: 50 PSIG (3.4 BAR) maximum.

Viscosity- 60 to 3000 SSU (10 to 650 CST). Hydraulic oils, lube oils, phosphate ester and water-glycol fire resistant fluids can be handled per standard pump ratings.

Temperature- 0 to 180°F (-18 to 82°C).

Drive- Direct only.

Rotation- Clockwise facing pump shaft. Counterclockwise rotation optional.

Mounting- May be foot or flange mounted in any attitude.

Filtration- Inlet strainers are required to keep contaminants and abrasives out of the pump. They must be selected in consultation with the strainer vendor to prevent pump starvation. Normally, 60 mesh (0.01 inch- 238 micron) for light and 1/8-3/16 inch (3-5mm) openings for heavy oils are recommended

Connections- Inlets and outlets are SAE 4-bolt flange pads. Mating socket weld flanges are included with 6T series pumps but must be specified and purchased separately for 6U series pumps. All 6T inlet heads are rotatable in 90° increments. Series 6U inlet heads are rotatable in the following increments: Sizes 137 & 156: 60°. Sizes 187 & UP: 45°. SAE port pad bolt patterns are for 3000 PSI rated flanges except the 6U-118 and 187/200 use a 6000 PSI pattern and the 218/250 inlet uses a 500 PSI pattern.

Maximum Speed*- Size 118: 5400 RPM. Sizes 137 & 156: 4400 RPM. Sizes 187 & UP: 3600 RPM. Special pumps available to 8000 RPM with boosted inlet pressure. Consult Imo Pump.

* Assumes minimum inlet pressure requirements are met.



Typical cutaway for the 4UVC and 6UVC Series. A 6U is shown; the 4U is shorter having fewer screw wraps. The 4T and 6T are very similar but have a combined flange/foot mounting arrangement as well as a steel casing.

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