

TW Hydraulic Pump for Water



- Specifically designed for water applications
- Rotating swash plate design – 3 or 6 pistons
- Pressure up to 1,040 bar
- Primarily stainless steel construction, ceramic piston option available
- Cool case for continuous operation
- Vertical or horizontal mounting

For the majority of water applications the standard Water/Glycol pumps can be used. For more arduous applications the TW pump is available.

The high pressure Type TW hydraulic pump is specifically designed for water applications. Since water is the most demanding fluid, the Type TW pump can also be used with most other fluids including water-based solutions and oil-based fluids. Separation of the lubricating oil and the pumped fluid is achieved by the installation of a cavity between the cylinder block and the case. Bypass from the pistons is collected in this cavity and returned to the inlet side of the pump.

The TW pump comes with a cooled case for continuous running.

Installation

Rotation is bi-directional and the pump may be mounted horizontally or vertically.

A suction filter of 150 microns or better should be used. Finer filtration is desirable for the pump life, but it is important that the inlet flowrate to the pump is not restricted and no more than -2 in.Hg is measured in the suction pipework under pumping conditions. Where possible a positive pressure should be maintained in the suction pipework under flowing conditions. When the pump is stationary the suction line should be kept under positive pressure to allow priming.

Important - pumps are delivered from Marshalsea with the case lubricating oil drained. Before the pumps are used, the case should be filled with Castrol Alphasyn PG150 to the level specified on the pump technical data sheet

Material

Primarily stainless steel wetted parts; cast iron casing; ceramic pistons available on request

Weight

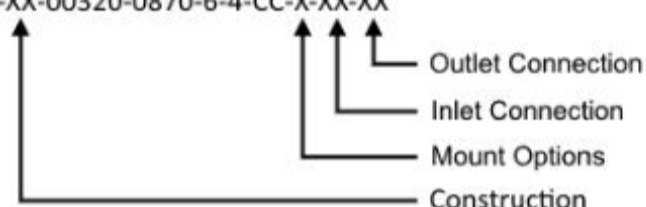
47 Kg

Pump characteristics options

Part Number	Supercedes	Cylinders	Flow	Flow @ 1450 RPM		Flow @ 1750 RPM		Pressure
			cc/rev	l/m	Usg/m	l/m	Usg/m	
TW-00-00118-0870-3-4-CC-X-XX-XX	11470-51CC	3	1.18	1.71	0.451	2.06	0.545	870
TW-00-00160-0870-3-4-CC-X-XX-XX	11470-52CC	3	1.60	2.32	0.614	2.81	0.741	870
TW-00-00209-0870-3-4-CC-X-XX-XX	11470-53CC	3	2.09	3.03	0.801	3.66	0.967	870
TW-00-00236-0870-3-4-CC-X-XX-XX	11470-61CC	3	2.36	3.42	0.903	4.13	1.090	870
TW-00-00320-0870-3-4-CC-X-XX-XX	11470-62CC	3	3.21	4.65	1.228	5.61	1.482	870
TW-00-00416-0870-3-4-CC-X-XX-XX	11470-63CC	3	4.18	6.07	1.602	7.32	1.933	870
TW-00-00236-0870-6-4-CC-X-XX-XX	11480-51CC	6	2.36	3.42	0.903	4.13	1.090	870
TW-00-00320-0870-6-4-CC-X-XX-XX	11480-52CC	6	3.21	4.65	1.228	5.61	1.482	870
TW-00-00420-0870-6-4-CC-X-XX-XX	11480-53CC	6	4.18	6.07	1.602	7.32	1.933	870
TW-00-00472-0870-6-4-CC-X-XX-XX	11480-61CC	6	4.72	6.84	1.806	8.26	2.179	870
TW-00-00640-0690-6-4-CC-X-XX-XX	11480-62CC	6	6.41	9.30	2.455	11.22	2.963	800
TW-00-00832-0620-6-4-CC-X-XX-XX	11480-63CC	6	8.37	12.14	3.204	14.65	3.867	610

Additional Options

TW-XX-00320-0870-6-4-CC-X-XX-XX



Construction

00 - Stainless Pistons
 05 - Ceramic Pistons Fitted

Mount Options

H - Horizontal Mount
 V - Vertical Mount

Inlet Connection Options

04 - 3/4" BSP Female Inlet
 09 - 3/4" NPT Female Inlet
 05 - 1" BSP Female Inlet

Outlet Connection Options

03 - 1/2" BSP Female Connection (Pressures up to 520 bar)
 08 - 1/2" NPT Female Connection (Pressures up to 870 bar)
 11 - 1/4" Medium Pressure Female Connection
 12 - 3/8" Medium Pressure Female Connection
 13 - 9/16" Medium Pressure Female Connection

Drawing

