

XWH WATER/GLYCOL PUMPS



- Ultra compact for given pressure and flow rates
- Flow/pressure combinations within 50 Kw range – up to 186 l/m or up to 690 bar
- All externally exposed components 316 stainless steel
- No external lubrication or cooling systems

The high pressure 50kW type XWHR1 hydraulic pump is specifically designed for water-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 XWHR1 pump incorporates up to six axial pistons actuated by a single rotating swash plate.

Applications

This high powered pump is highly suitable for Blow Out Preventer (BOP) applications, hydraulic power units (HPU) and flushing skids.

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 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 Alphasyne PG150 to the level specified on the pump technical data sheet

Material

All external components manufactured from 316 stainless steel – pump shaft is medium carbon steel EN9 or EN8.

Weight

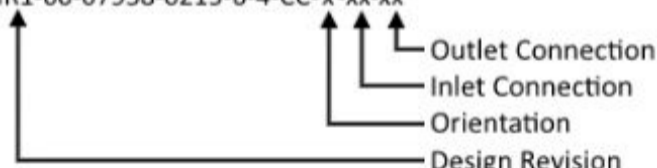
200 Kg

Pump characteristics options

Part Number	Cylinders	Flow	Flow @ 1450 RPM		Flow @ 1750 RPM		Pressure bar
		cc/rev	l/m	Usg/m	l/m	Usg/m	
XWHR1-00-01336-0690-3-4-CC-x-xx-xx	3	13.36	19.37	5.114	23.38	6.172	690
XWHR1-00-01618-0690-3-4-CC-x-xx-xx	3	16.18	23.46	6.194	28.32	7.476	690
XWHR1-00-01922-0690-3-4-CC-x-xx-xx	3	19.22	27.87	7.358	33.64	8.880	690
XWHR1-00-02255-0690-3-4-CC-x-xx-xx	3	22.55	32.70	8.633	39.47	10.419	690
XWHR1-00-02615-0690-3-4-CC-x-xx-xx	3	26.15	37.91	10.009	45.76	12.080	655
XWHR1-00-03004-0690-3-4-CC-x-xx-xx	3	30.04	43.56	11.500	52.57	13.879	570
XWHR1-00-03414-0605-3-4-CC-x-xx-xx	3	34.14	49.50	13.068	59.74	15.772	500
XWHR1-00-03857-0535-3-4-CC-x-xx-xx	3	38.57	55.92	14.764	67.49	17.818	445
XWHR1-00-04319-0480-3-4-CC-x-xx-xx	3	43.19	62.63	16.534	75.58	19.954	395
XWHR1-00-04816-0430-3-4-CC-x-xx-xx	3	48.16	69.83	18.435	84.28	22.249	355
XWHR1-00-05331-0385-3-4-CC-x-xx-xx	3	53.31	77.30	20.406	93.29	24.628	320
XWHR1-00-02672-0690-6-4-CC-x-xx-xx	6	26.72	38.74	10.228	46.76	12.344	640
XWHR1-00-03236-0640-6-4-CC-x-xx-xx	6	32.36	46.92	12.388	56.63	14.951	530
XWHR1-00-03844-0535-6-4-CC-x-xx-xx	6	38.44	55.74	14.716	67.28	17.761	445
XWHR1-00-04510-0460-6-4-CC-x-xx-xx	6	45.10	65.40	17.266	78.93	20.838	380
XWHR1-00-05230-0395-6-4-CC-x-xx-xx	6	52.30	75.83	20.019	91.52	24.161	325
XWHR1-00-06008-0345-6-4-CC-x-xx-xx	6	60.08	87.12	23.000	105.15	27.759	285
XWHR1-00-06828-0300-6-4-CC-x-xx-xx	6	68.28	99.00	26.136	119.48	31.543	250
XWHR1-00-07714-0265-6-4-CC-x-xx-xx	6	77.14	111.85	29.527	134.99	35.637	220
XWHR1-00-08638-0240-6-4-CC-x-xx-xx	6	86.38	125.25	33.067	151.17	39.909	200
XWHR1-00-09631-0215-6-4-CC-x-xx-xx	6	96.31	139.66	36.869	168.55	44.497	175
XWHR1-00-10662-0190-6-4-CC-x-xx-xx	6	106.62	154.59	40.813	186.58	49.257	160

Additional Options

XWHR1-00-07958-0215-6-4-CC-x-xx-xx



Design Revision

R1 - Revision 1

Orientation

H - Horizontal

Inlet Connection Options

14 - 2" BSP Female Inlet

Outlet Connection Options

05 - 1" BSP Female Outlet (Maximum 700 bar)

15 - 1" MP Female Outlet

23 - 1 1/2" BSP Female Outlet

Drawing

