

Product Specification

HP Flush & Test Rigs



- Harben® flushing pump suitable for low viscosity water based oils i.e. Oceanic HW series, Castrol Brayco, Transaqua, MEG, water
- NAS 1638 Class 6 cleanliness
- standard
- Trolley and skid versions
- Flush up to 700bar/ 175 lpm, Test up to 1400 bar
- Basic, PLC and HMI control options

Model	HP Onshore Flush & Test Rigs					
Pressure and Flow	The Harben® Onshore flushing rigs are available with a wide range of pressure and flow combinations. See reverse of brochure for details					
Flushing Pump	Harben® radial piston diaphragm pump suitable for low viscosity water and oil based fluids. Capable of pum ing low lubricity fluids at high pressure. Seal-less design for long service intervals. Harben® pressure controvalve with replaceable stem and seats					
Motor/Starter	Typically safe area TEFC motor with flange mount for ideal alignment and IP55 rating for ingress protection. Options available are 400v/3ph/50Hz, 440-460v/3ph/60Hz or multi voltage 400/690v 50Hz - 400v 60Hz - 440- 480v 60Hz - 660-690v 60 Hz. Star delta and DOL starting options available to match supply requirements. ATEX options available					
Test Pump	Pneumatic intensifier type high pressure test pump with operating pressure available up to 1,400 bar all piped through a common outlet with the flushing pump allowing lines to be flushed and tested in one operation					
Pneumatic supply	A compressed air supply will be required to operate the test pump from 7 bar at 75 scfm					
Supply Tank	Header tank manufactured from 316 stainless steel. Low level and high temperature fluid sensing					
Cooling	Thermostatically controlled water cooled plate cooler to maintain flushing fluid at required temperature (optional air blast cooler available)					
Frame	316 stainless steel or mild steel shot blasted and powder coated					
Filtration	Up to 700 bar 3 micron high pressure filter, 40 bar 3 micron low pressure filter. Fitted with clogging indicators					
Flow meter	Analogue and digital flow meter options are available					
Pressure gauge	Analogue and digital pressure gauges are available					
Dimensions	To suit application and area available					
Weight	Dry weight: From 850 kgs *					

* All weights and dimensions are subject to change and should be confirmed with Flowplant at time of quotation and ordering

Motor kW ratings are those stamped for 50Hz operation. 60Hz ratings will be proportionally higher

All performances are approximate.

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Harben Flushing/Test Pump Options

The tables below show the performance in I/min that can be expected when operating on 50 Hz and 60 Hz electrical supplies with a 6 pole motor with the pump operating at listed pressures

If running on a VFD the Harben P type can be run at up to 1,300 rpm and the Century at 1,200 rpm. Both have a turndown ratio of 4:1

		Century		700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
				4.22.5	4.22.5	4.22.5	4.25.0	4.25.0	4.25.0	4.27.5	4.27.5	4.27.5
Motor Power kW / 6 pole / 50 Hz / 980 rpm		37 kW		29	33	36			54			72
		45	kW				46	50		55	65	
		Cen	tury	700 Bar 4.22.5	600 Bar 4.22.5	500 Bar 4.22.5	550 Bar 4.25.0	450 Bar 4.25.0	350 Bar 4.25.0	400 Bar 4.27.5	300 Bar 4.27.5	200 Bar 4.27.5
		37	kW	4.22.3	4.22.3	4.22.3	4.23.0	4.23.0	4.23.0	4.21.5	4.27.5	4.27.5
Motor Power kW / 6 pole / 60 Hz / 1180 rpm				35	39	43			65			86
		55 kW					56	60		70	78	
		Century		700 Bar 8.22.5	600 Bar 8.22.5	500 Bar 8.22.5	550 Bar 8.25.0	450 Bar 8.25.0	350 Bar 8.25.0	400 Bar 8.27.5	300 Bar 8.27.5	200 Bar 8.27.5
Motor Power kW / 6 pole / 50 Hz / 980 rpm		75 kW		58	64	69			110			150
		90 kW					94	101			140	
		110 kW								131		
		Century		700 Bar	600 Bar	500 Bar	550 Bar	450 Bar	350 Bar	400 Bar	300 Bar	200 Bar
Motor Power kW / 6 pole / 50 Hz / 1180 rpm		75 kW 90 kW 110 kW		8.22.5	8.22.5	8.22.5 84	8.25.0	8.25.0	8.25.0	8.27.5	8.27.5	8.27.5 175
						04						175
				70	77				131		164	
							112	121		155		
Р Ту		20		415 E	ar		350 E	Bar		2	.75 Bar	
	ועיי		3x18	4x18	6x18 8x [.]	18 3x20	4x20 (6x20 8x	20 3x2:	2 4x22	6x22	8x22
Motor Power kW / 6 pole / 50 Hz / 975 rpm	11 k\		9.2	12.6		12.1			17.8			
		15 kW 18.5 kW			18.9		17	25.3		23.3		
	22 k)				26	.4		33	.9		36	
	30 k\	30 kW										45.5
	Р Тур	be	3x18	415 B	ar 6x18 8x1	8 3x20	350 E 4x20 6	3ar 6x20 8x	20 3x2:		275 Bar 6x22	8x22
	11 k\	N	11.1	15.2		14.6						
Motor Power kW /	15 k\						21		21.5			
6 pole / 60 Hz / 1180 rpm	18.5 k				22.8			20 F		28		
	22 kW 30 kW				31.	9	;	30.5 40	.9		43.4	54.8
	00 K	•			01	-		-10			10.1	00