

S0300-BV-CAT-010

PUMPING SYSTEM, SUBM, 4-INCH HYD, 1100-GPM

System - S18800



4-Inch, 1100-GPM Hydraulic Submersible Pumping System S18800

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The 4-Inch Hydraulic Submersible Pumping System S18800 consists of a 4-inch, hydraulically driven, submersible pump, an ancillary set, and a hydraulic power unit with spare parts kit. This system is capable of pumping up to 1100 gpm to dewater or counterflood compartments for ballast and stability or for any application where a lightweight submersible pump is needed.

System Components for S18800

Alternates

ESSM No	Nomenclature	Type	Qty	NS	Cont
PU0209	ANCILLARY SET, FOR 4" SUBMERSIBLE HYD PUMPING	BL	1		Y
CP3010	CONTAINMENT POOL, MCHRY, 10' X 6' X 12"	Contents	1		
PU0208	PUMP, SUBMERSIBLE, 4" HYDRAULIC	Contents	1		
PW0030	POWER UNIT, HYD, MOD 10, DIESEL, 30 GPM @ 3000	BL	1		Y
PW0031	SPARE PARTS KIT FOR POWER UNIT PW0030	Contents	1		

Baseline verified on 1/13/2014, * Not shown in catalog.

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ESSM - PU0209 ANCILLARY SET, FOR 4" SUBMERSIBLE HYD PUMPING SYS



Ancillary Set PU0209

The Ancillary Set PU0209 contains items necessary to configure and operate the 4-Inch Hydraulic Submersible Pumping System S18800.

Specifications

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PU0209	
The set contains the following major items:		
Container, wire mesh basket, 62" x 36" x 41"		1
Pump, Submersible, 4", Hydraulic	PU0208	1
Cap, 4", camlock fitting		3
Hose assembly, 50' hydraulic case drain		2
Hose assembly, 50' supply and return		4
Hose, 50' layflat, 4"		2
Operator's manual, U-102 Pump		1

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Specifications

Type	Description	Qty
Plug, 4" camlock		3
Inventory, laminated		1

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	5 ft, 2 in		
Width	3 ft, 0 in		
Height	3 ft, 5 in		
Cube	53 cu ft		
Footprint	16 sq ft		
Weight	1050 lb		

References

Ref No	Reference
1	None

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ESSM - CP3010 CONTAINMENT POOL, MCHRY, 10' X 6' X 12"



CP3010 Folded



Machinery Containment Pool CP3010

The Machinery Containment Pool CP3010 is a 10' x 6' x 12" urethane berm. It is used to provide a means of catching and containing any oil, fuel, or contaminants, leaking or spilled from the operating equipment it contains.

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Specifications

Type	Description	Qty
Manufacturer	Basic Concepts	
Model	1003-00449-201A	

Physical Characteristics

Type	Descriptions		
	Shipping	Operating	
Length	3 ft, 3 in	10 ft, 0 in	
Width	2 ft, 5 in	6 ft, 0 in	
Height	0 ft, 9 in	1 ft, 0 in	
Cube	6 cu ft	60 cu ft	
Footprint	8 sq ft	60 sq ft	
Weight	70 lbs	70 lbs	

References

Ref No	Reference
1	None

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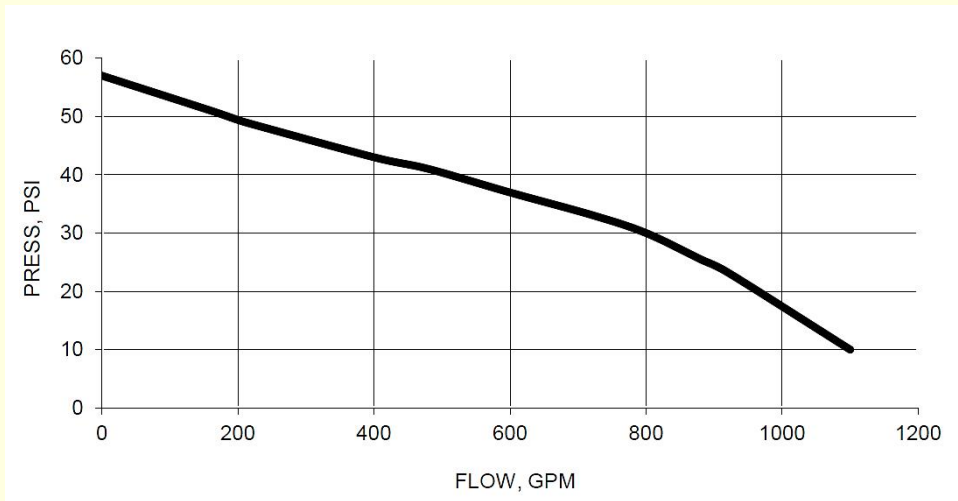
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ESSM - PU0208 PUMP, SUBMERSIBLE, 4" HYDRAULIC



4" Hydraulic Submersible Pump PU0208



Performance Curve for PU0208 Pump

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The 4-Inch Hydraulic Submersible Pump PU0208 is capable of pumping water containing solids up to 2 inches in diameter. The pump is rated for continuous output of up to 1100 gpm at 10-psi discharge pressure. Quick disconnect fittings are utilized to allow for rapid hookup of the discharge hose and the supply and return hydraulic hoses.

Specifications

Type	Description	Qty
Manufacturer	Marco Inc.	
Pump		
Manufacturer	Marco Inc.	
Type	Submersible	
Discharge	4"	
Output (maximum)	1100 gpm at 10 psi	
Motor		
Manufacturer	Parker Hannifin	
Model	M2A-254-16S	
Operating pressure (max.)	2500 psi	
Flow rate (maximum)	25 gpm	

Physical Characteristics

Type	Descriptions		
	Shipping	Operating	
Length	1 ft, 7 in	1 ft, 7 in	
Width	1 ft, 4 in	1 ft, 4 in	
Height	2 ft, 10 in	2 ft, 10 in	
Cube	6 cu ft	6 cu ft	
Footprint	3 sq ft	3 sq ft	
Weight	115 lb	115 lbs	

References

Ref No	Reference
1	Operation and Maintenance Instructions, with Illustrated Parts Breakdown, U102 Salvage Pump, NAVSEA S6225-F7-MMO-010

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ESSM - PW0030 POWER UNIT, HYD, MOD 10, DIESEL, 30 GPM @ 3000 PSI



Mod 10 Hydraulic Power Unit PW0030



Mod 10 Hydraulic Power Unit Gauge Board

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The Mod 10 Hydraulic Power Unit (HPU) PW0030 is a portable, diesel driven unit that provides hydraulic flow at up to 30 gpm @ 3000 psi. An adjustable pressure relief valve controls the output pressure delivered to the supply circuit.

The HPU is mounted on an enclosed skid with forklift slots and a protective frame with a five-position lifting point. The enclosure includes a storage area for the spare parts kit and contains the operator's manual. Hydraulic connections utilize 1-inch Aeroquip 5600 series quick disconnect fittings.

Specifications

Type	Description	Qty
Hydraulic Power Unit		
Manufacturer	Portaco	
Model	Predator Series 50-T	
Diesel Engine		
Manufacturer	Isuzu Motors Ltd.	
Series	4JB1	
Rpm	3000	
Horsepower	67.7 @ 3000 rpm	
Starting	12-volt	
Fuel	Diesel	
Fuel tank	10 gal	
Fuel consumption	6 gph	
Hydraulic Pump		
Type	Gear	
Op. press. (max.)	3000 psi	
Flow	30 gpm @ 3000 rpm	
Hyd. reservoir	10 gal	

Physical Characteristics

Type	Descriptions		
	Shipping	Operating	
Length	6 ft, 3 in	6 ft, 3 in	
Width	4 ft, 0 in	4 ft, 0 in	
Height	3 ft, 9 in	3 ft, 9 in	
Footprint	25 sq ft	25 sq ft	
Cube	94 cu ft	94 cu ft	

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Physical Characteristics

Type	Descriptions		
Weight	1790 lb	1790 lbs	

References

Ref No	Reference
1	Predator Series 50-T Hydraulic Power Unit Operation and Maintenance Manual
2	Isuzu Engine Manual for 4JB-1 Series Engine

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ESSM - PW0031 SPARE PARTS KIT FOR POWER UNIT PW0030



Spare Parts Kit PW0031

The Spare Parts Kit PW0031 contains the items necessary to support the operation and maintenance of one Hydraulic Power Unit PW0030.

Specifications

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PW0031	
The kit contains the following major items:		
Container, spare parts kit, 18" x 11" x 10"		1
Fan belt		1
Filter, air		1
Filter, engine fuel		1
Filter, engine oil		1
Filter, hydraulic oil		1
O-ring (22550-115)		5
O-ring (22550-211)		5
O-ring (2-126-N70)		5

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Specifications

Type	Description	Qty
Ring, Teflon (22021-6)		5
Ring, Teflon (22021-10)		5
Ring, Teflon (22021-16)		5
Inventory, laminated		1

Physical Characteristics

Type	Descriptions		
	Shipping		
Length	1 ft, 7 in		
Width	1 ft, 0 in		
Height	0 ft, 11 in		
Cube	2 cu ft		
Footprint	2 sq ft		
Weight	10 lb		

References

Ref No	Reference
1	None