

# S0300-BV-CAT-010

PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

System - S18500



2 1/2-Inch Jetting Pumping System using PU0229



2 1/2-Inch Jetting Pumping System using PU0228/PU0230

## 2 1/2-Inch Jetting Pumping System S18500

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

System - S18500

The 2 1/2-Inch Jetting Pumping System S18500 consists of a skid-mounted, portable, diesel driven pump with an ancillary set and spare parts kit. Three pumps with similar specifications are available to allow the end user to meet on-site pressure and flow requirements. Each pump has an assigned ancillary set and spare parts kit containing a 2 1/2-inch diameter fire hose, various fittings, a foot valve, and other items necessary for system operation. The system is used mainly for jetting, but also can be used for firefighting and limited dewatering.

Note: The system is NOT configured to pump petroleum products from a stranded vessel.  
 Note: The configuration shipped will depend on inventory availability and on-site requirements.

## System Components for S18500

Alternates

ESSM No	Nomenclature	Type	Qty	NS	Cont
<b>PU0228*</b>	PUMP, JETTING GENERIC	BL Generic	1		Y
PU0226	SPARE PARTS KIT, FOR PU0228 PUMP	Contents	1		
PU0228	PUMP, JETTING, 500 GPM @ 150 PSI (2ND GEN)	Contents	1		
PU0232	ANCILLARY SET, FOR PU0230 PUMP	Contents	1		
<b>PU0229*</b>	PUMP, JETTING GENERIC	BL Generic	1		Y
PU0229	PUMP, JETTING, 500 GPM @ 300 PSI, DIESEL	Contents	1		
PU0242	SPARE PARTS KIT, FOR PU0229 PUMP	Contents	1		
PU0243	ANCILLARY SET, FOR PU0229 PUMP	Contents	1		
<b>PU0230*</b>	PUMP, JETTING GENERIC	BL Generic	1		Y
PU0230	PUMP, JETTING, 500 GPM @ 150 PSI (1ST GEN)	Contents	1		
PU0231	SPARE PARTS KIT, FOR PU0230 PUMP	Contents	1		
PU0232	ANCILLARY SET, FOR PU0230 PUMP	Contents	1		

Baseline not verified, \* Not shown in catalog.

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## **ESSM - PU0228\*** **PUMP, JETTING GENERIC**

PUMP, JETTING GENERIC

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## ESSM - PU0226 SPARE PARTS KIT, FOR PU0228 PUMP



Spare Parts Kit PU0226

The Spare Parts Kit PU0226 contains items to support the operation and maintenance of one 2 1/2-Inch Jetting Pump PU0228.

### Specifications

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PU0226	
The kit contains the following major items:		
Container, w/lid:		1
Desiccant		1
Filter, air		2
Element, fuel		2
Element, oil		2
Injector, S-50		2
Inventory, laminated		1
Manual, Instructions, Pump	Ingersoll-Rand 7616H	1

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**PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM**

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## Specifications

Type	Description	Qty
Manual, Parts, Class 2 & 3 GT Pumps	Ingersoll-Rand 7616-11	1
Manual, Equipment, Jetting Pumps	NAVSHIPS 0947-113-8010	1
Plate, clutch drive		1
Spring, separator		3
V-belt set (5137457)		1
V-belt set (5136878)		1

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	3 ft, 0 in		
Width	2 ft, 4 in		
Height	1 ft, 2 in		
Cube	9 cu ft		
Footprint	7 sq ft		
Weight	20 lb		

## References

Ref No	Reference
1	None

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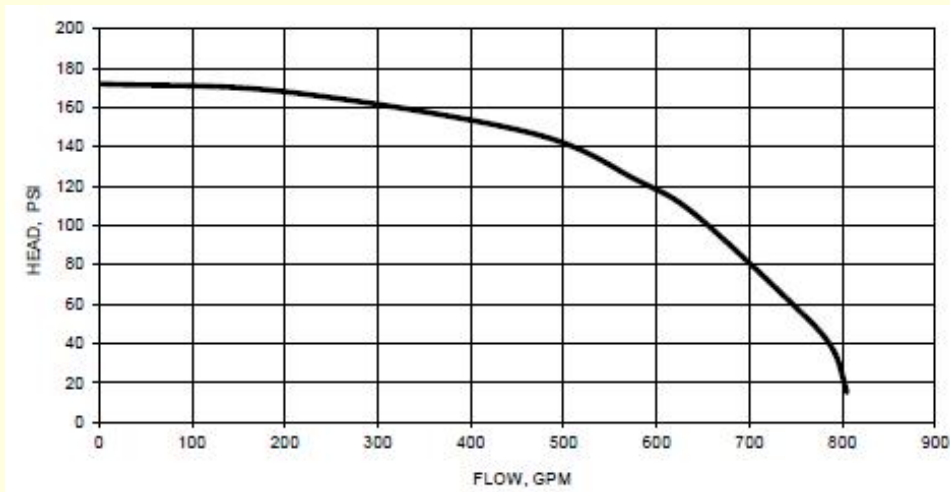
PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## ESSM - PU0228 PUMP, JETTING, 500 GPM @ 150 PSI (2ND GEN)



500-GPM @ 150-PSI Jetting Pump PU0228



Performance Curve for PU0228 Pump

The 2 1/2-Inch Jetting Pump PU0228 is a skid-mounted, portable, diesel driven pump and has a pumping capacity of 500 gpm at 150 psi. The pump can be used for washing and jetting around and under a grounded vessel, firefighting, and for limited dewatering.

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**PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM**

**System - S18500**

## Specifications

Type	Description	Qty
<b>Pump</b>		
Manufacturer	Goulds Pumps	
Type	Two-stage centrifugal	
Model	I 3316 4X6-11	
Duty cycle	Continuous	
Service	Water	
Rated output	500 gpm @ 150 psi	
Inlet port	6"	
Discharge port	2 1/2"	
Impeller	8"	
<b>Engine</b>		
Manufacturer	Detroit Diesel-Allison	
Type	3-53	
Model	5034-7101	
No. of cylinders	3	
Horsepower	60	
Starting	Hydraulic	
Fuel	Diesel	
Fuel source	5-gal. jerry can	
Fuel consumption	4 gph	

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	9 ft, 2 in	9 ft, 2 in	
Width	3 ft, 4 in	3 ft, 4 in	
Height	6 ft, 6 in	6 ft, 6 in	
Cube	199 cu ft	199 cu ft	
Footprint	31 sq ft	31 sq ft	
Weight	4280 lb	4280 lbs	

## References

Ref No	Reference
1	Technical Manual, Series 2, 3, 4, and 6V-53 Industrial and Power Units for U.S. Navy Salvage Equipment, NAVSEA 0941-010-5010

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## References

Ref No	Reference
2	Installation, Operation and Maintenance Instructions



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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## ESSM - PU0232 ANCILLARY SET, FOR PU0230 PUMP



Ancillary Set PU0232

Ancillary Set PU0232

The Ancillary Set PU0232 contains fire hoses, suction hoses, various size pipe fittings, a gate valve, a jetting nozzle, and additional items necessary to support a 2 1/2-Inch Jetting Pump (PU0228 or PU0230) for operation.

### Specifications

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PU0232	
The set contains the following major items:		
Container, wire mesh basket, 151" x 31" x 30"		1
Bushing, 2 1/2" to 3" pipe		1
Gasket, 6" Roylyn fitting		3
Hose, fire, 2 1/2" x 50", NH threads		2
Hose, LWT, 6" x 10' w/Roylyn fittings		3
Inventory, laminated		1
Nipple, close, 2 1/2"		1
Nozzle, jetting		1

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**PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM**

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## Specifications

Type	Description	Qty
Roylyn fitting w/6" NPT adapter		2
Valve, foot, 6"		1
Valve, gate, 2 1/2"		1

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	12 ft, 7 in		
Width	2 ft, 7 in		
Height	2 ft, 6 in		
Cube	82 cu ft		
Footprint	33 sq ft		
Weight	1150 lb		

## References

Ref No	Reference
1	None

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## **ESSM - PU0229\*** **PUMP, JETTING GENERIC**

PUMP, JETTING GENERIC

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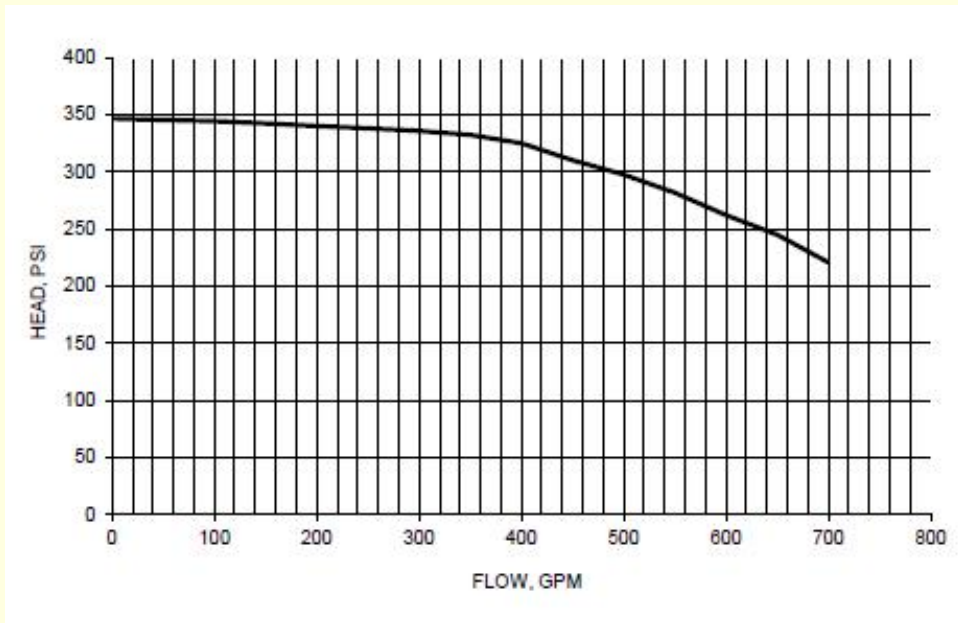
PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

System - S18500

## ESSM - PU0229 PUMP, JETTING, 500 GPM @ 300 PSI, DIESEL



500-GPM @ 300-PSI Jetting Pump PU0229



Performance Curve for PU0229 Pump

The 2 1/2-Inch Jetting Pump PU0229 is a skid-mounted, portable, diesel driven pump, and has a capacity of 500 gpm at 300 psi. It can be used for jetting, firefighting, and limited dewatering.

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**PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM**

**System - S18500**

## Specifications

Type	Description	Qty
<b>Pump</b>		
Manufacturer	Worthington Corp.	
Type	Two-stage, centrifugal	
Model	3UNB-11	
Service	Water	
Rated output at 3080 rpm	500 gpm @ 300 psi	
Suction	6"	
Discharge	2 1/2"	
<b>Engine</b>		
Manufacturer	General Motors	
Type	6V-53	
Model	5064-5200	
No. of cylinders	6	
Starting	Hydraulic	
Fuel	Diesel	
Fuel source	5-gal. jerry can	
Fuel consumption	12 gph	

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	10 ft, 0 in	10 ft, 0 in	
Width	4 ft, 3 in	4 ft, 3 in	
Height	6 ft, 0 in	6 ft, 0 in	
Cube	255 cu ft	255 cu ft	
Footprint	43 sq ft	43 sq ft	
Weight	4825 lb	4825 lbs	

## References

Ref No	Reference
1	Instructions for Installation, Operation, and Maintenance for UNB Pumps, Worthington Corporation
2	Technical Manual, Series 2, 3, 4, and 6V-53 Industrial Engines and Power Units for U.S. Navy Salvage Equipment, NAVSHIPS 0994-101-5010

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## ESSM - PU0242 SPARE PARTS KIT, FOR PU0229 PUMP



Spare Parts Kit PU0242

The Spare Parts Kit PU0242 contains items to support the operation and maintenance of one 2 1/2-Inch Jetting Pump PU0229.

### Specifications

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PU0242	
The kit contains the following major items:		
Container, w/lid:		1
Desiccant		
Element, fuel (5574508)		1
Element, fuel (5574961)		1
Filter, oil		1
Injector, N-50		2
Inventory, laminated		1
Manual, Equipment, Jetting Pump	NAVSHIPS 0947-113-8010	1
Plate, drive clutch		1

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## Specifications

Type	Description	Qty
Packing tool, flexible shaft		1
Packing, flexible graphite, 1/2" x 4 1/8"		1
Spring, clutch plate separator		3
V-belt set (5130948)		1
V-belt set (5100367)		1

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	1 ft, 6 in		
Width	1 ft, 2 in		
Height	0 ft, 11 in		
Cube	2 cu ft		
Footprint	2 sq ft		
Weight	15 lb		

## References

Ref No	Reference
1	None

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

System - S18500

## ESSM - PU0243 ANCILLARY SET, FOR PU0229 PUMP



Ancillary Set PU0243

Ancillary Set PU0243

The Ancillary Set PU0243 contains fire hoses, suction hoses, various size pipe fittings, a gate valve, a jetting nozzle, and additional items necessary to support one 2 1/2-Inch Jetting Pump PU0229 for operation.

### Specifications

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PU0243	
The set contains the following major items:		
Container, wire mesh basket, 151" x 31" x 30"		1
Bushing, 2 1/2" to 3" pipe		1
Gasket, 6" Roylyn fitting		3
Hose, fire, 2 1/2" x 50', NH threads		2
Hose, LWT, 6" x 10' w /Roylyn fittings		3
Nipple, close, 2 1/2"		1
Nozzle, jetting		1
Roylyn fitting w/ 6" NPT adapter		2



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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## Specifications

Type	Description	Qty
Valve, foot, 6"		1
Valve, gate, 2 1/2"		1
Inventory, laminated		1

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	12 ft, 7 in		
Width	2 ft, 7 in		
Height	2 ft, 6 in		
Cube	82 cu ft		
Footprint	33 sq ft		
Weight	1220 lb		

## References

Ref No	Reference
1	None

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## **ESSM - PU0230\*** **PUMP, JETTING GENERIC**

PUMP, JETTING GENERIC

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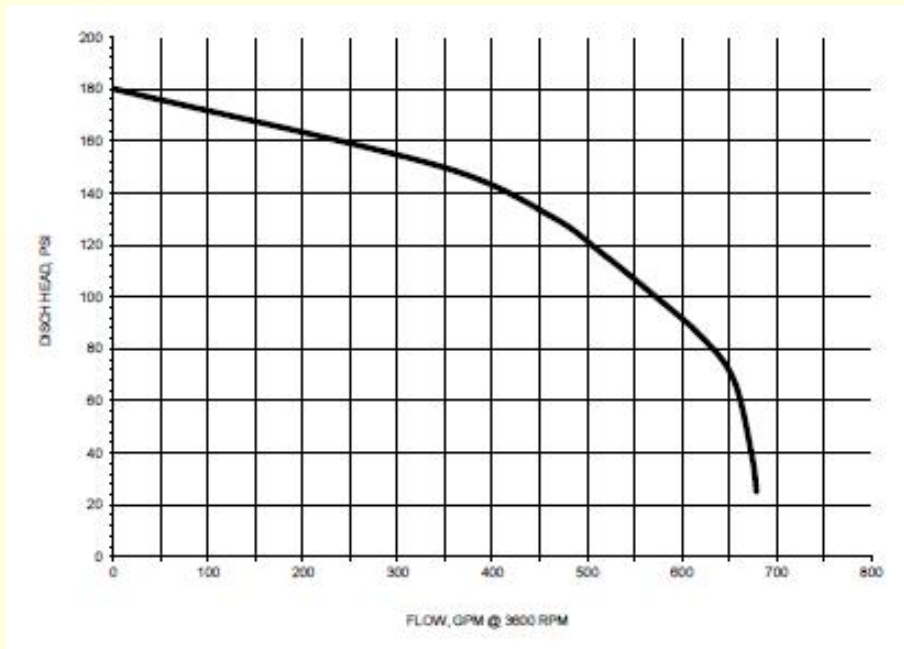
PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

System - S18500

## ESSM - PU0230 PUMP, JETTING, 500 GPM @ 150 PSI (1ST GEN)



500-GPM @ 150-PSI Jetting Pump (1st Generation) PU0230



Performance Curve for PU0230 Pump

The 2 1/2-Inch Jetting Pump PU0230 is a skid-mounted, portable, diesel driven pump and has a pumping capacity of 500 gpm at 150 psi. The pump can be used for washing and jetting around and under a grounded vessel, firefighting, and for limited dewatering.

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**PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM**

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## Specifications

Type	Description	Qty
<b>Pump Assembly</b>		
Manufacturer	Ingersoll-Rand	
Model	3GT28	
<b>Pump</b>		
Manufacturer	Ingersoll-Rand	
Type	Two-stage, centrifugal	
Model	3GT28	
Service	Water	
Output @ 3080 rpm	500 gpm @ 150 psi	
Inlet	6"	
Discharge	2 1/2"	
<b>Engine</b>		
Manufacturer	Detroit Diesel-Allison	
Model	5034-7101	
Type	3-53	
No. of cylinders	3	
Horsepower	60 @1800 rpm	
Starting	Hydraulic	
Fuel	Diesel	
Fuel source	5-gal. jerry can	
Fuel consumption	4 gph	

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	9 ft, 2 in	9 ft, 2 in	
Width	3 ft, 4 in	3 ft, 4 in	
Height	6 ft, 6 in	6 ft, 6 in	
Cube	199 cu ft	199 cu ft	
Footprint	31 sq ft	31 sq ft	
Weight	4165 lb	4165 lbs	

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## References

Ref No	Reference
1	Technical Manual, Series 2, 3, 4, and 6V-53 Industrial Engines and Power Units for U.S. Navy Salvage Equipment, NAVSEA 0941-010-5010
2	Instructions for Class BEV-EV-GT-GTS, Ingersoll-Rand Manual, Form 7616-H

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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

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## ESSM - PU0231 SPARE PARTS KIT, FOR PU0230 PUMP



Spare Parts Kit PU0231

The Spare Parts Kit PU0231 contains items to support the operation and maintenance of one 2 1/2-Inch Jetting Pump PU0230.

Specifications		
Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PU0231	
The kit contains the following major items:		
Container, w/lid:		1
Desiccant		1
Element, air		2
Element, fuel (TP-553)		2
Element, fuel (TP-568)		2
Element, oil		2
Injector, S-50		2
Inventory, laminated		1
Manual, Instructions, Pump	Ingersoll-Rand 7616H	1

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## Specifications

Type	Description	Qty
Manual, Parts, Class 2 & 3 GT Pumps	Ingersoll-Rand 7616-11	1
Manual, Equipment, Jetting Pumps	NAVSHIPS 0947-113-8010	1
Packing tool, flexible shaft		1
Packing, flexible graphite, 3/8" x 3/8" x 48"		1
Plate, clutch		1
Spring, separator		3
V-belt set (5137457)		1
V-belt set (5136878)		1

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	2 ft, 3 in		
Width	1 ft, 7 in		
Height	1 ft, 6 in		
Cube	6 cu ft		
Footprint	4 sq ft		
Weight	30 lb		

## References

Ref No	Reference
1	None

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## ESSM - PU0232 ANCILLARY SET, FOR PU0230 PUMP



Ancillary Set PU0232

Ancillary Set PU0232

The Ancillary Set PU0232 contains fire hoses, suction hoses, various size pipe fittings, a gate valve, a jetting nozzle, and additional items necessary to support a 2 1/2-Inch Jetting Pump (PU0228 or PU0230) for operation.

Specifications		
Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PU0232	
The set contains the following major items:		
Container, wire mesh basket, 151" x 31" x 30"		1
Bushing, 2 1/2" to 3" pipe		1
Gasket, 6" Roylyn fitting		3
Hose, fire, 2 1/2" x 50", NH threads		2
Hose, LWT, 6" x 10' w/Roylyn fittings		3
Inventory, laminated		1
Nipple, close, 2 1/2"		1
Nozzle, jetting		1



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PUMPING SYSTEM, JETTING, 2 1/2-INCH, DSL, 500-GPM

System - S18500

## Specifications

Type	Description	Qty
Roylyn fitting w/6" NPT adapter		2
Valve, foot, 6"		1
Valve, gate, 2 1/2"		1

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	12 ft, 7 in		
Width	2 ft, 7 in		
Height	2 ft, 6 in		
Cube	82 cu ft		
Footprint	33 sq ft		
Weight	1150 lb		

## References

Ref No	Reference
1	None