



Photo courtesy of Eric Stapleton

Jastram Hydraulic Power Units

Jastram manufactures custom and pre-engineered Hydraulic Power Units (HPU) to meet a wide range of requirements. HPUs produce and direct the fluid movement in the steering system.

Custom HPUs are available to meet specific design challenges or requirements of the vessel owner, naval architect or shipyard. Pre-engineered power units are available in limited sizes for faster delivery while maintaining our commitment to quality.

Pre - engineered HPU's



The Jastram pre-engineered HPU interfaces the vessel's hydraulic steering gear with its electric control system. These power units are optimized to work with Jastram cylinders and control systems.

If there are any changes beyond the specified options to a Pre-engineered HPU it would become a custom HPU as engineering support would be needed.

Standard features of Pre-engineered HPU's are:

- Lockvalve
- Vented Reservoir
- Adjustable flow control
- Pressure gauge
- Return line filter
- Low level sensor
- Push to read Sight / Temp. gauge
- Filter clogging sensor
- Either 50Hz or 60Hz Motor
- Single speed directional valve
- Jastram Blue is the only color available

Jastram Pre-engineered HPU Specifications

HPU Model	Part Number	Motor HP	Hz	Reservoir Size (US Gallons)	Max Flow Rate Out (GPM)	Power Consumption (Amp)	Power Supply 3 phase	Max Working Pressure
HPU-051-21	JA-501016-1	1	60	5	1.46	3.70	208-230/460	1000
HPU-051-11	JA-501016-2	1	50	5	1.20	3.10	220/380/440	1000
HPU-101-21	JA-501017-1	3	60	10	2.92	8.90	208-230/460	1500
HPU-101-11	JA-501017-2	3	50	10	2.38	7.80	220/380/440	1500
HPU-201-21	JA-501018-1	5	60	20	4.38	15.40	208-230/460	1500
HPU-201-11	JA-501018-2	5	50	20	4.75	14.80	220/380/440	1500
HPU-401-21	JA-501020-1	10	60	40	8.00	28.00	208-230/460	1500
HPU-401-11	JA-501020-2	10	50	40	8.00	28.40	220/380/440	1500
HPU-501-21	JA-501021-1	10	60	50	10.33	28.00	208-230/460	1500
HPU-501-11	JA-501021-2	10	50	50	9.73	28.40	220/380/440	1500
HPU-511-21	JA-501022-1	15	60	50	11.73	40.00	208-230/460	1500
HPU-511-11	JA-501022-2	15	50	50	12.13	41.00	220/380/440	1500



Custom HPU's

In addition to the Pre-Engineered HPU's Jastram supplies custom HPU's upon request to fit any size and specification including:

- Special tank shape
- Tank capacity
- Special motors
- Custom manifolds
- Custom paint colors

Please contact your local Jastram Dealer for a quotation.

Hydraulic Fluid

Use only Standard **ISO grade 32 hydraulic oil** in all Jastram steering systems.

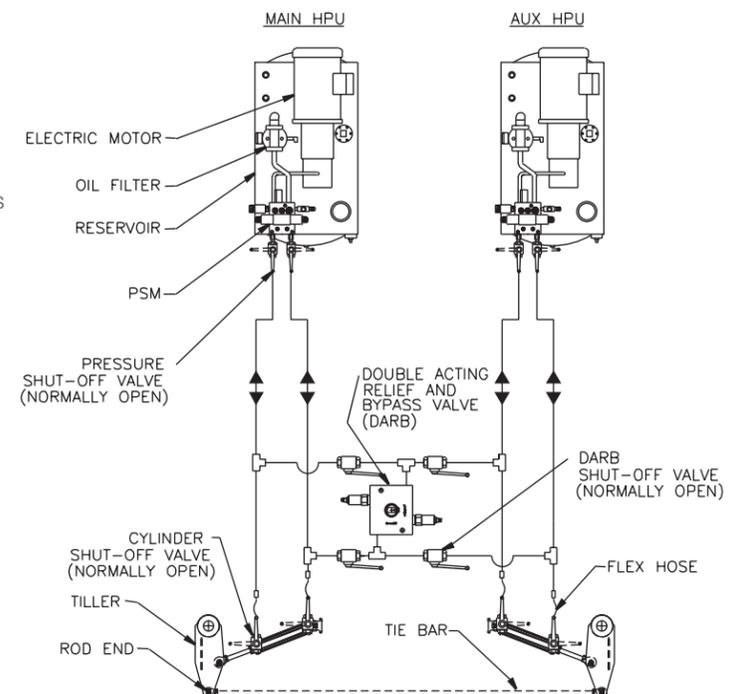
WARNING: DO NOT USE TRANSMISSION OR BRAKE FLUID

Oil Temperature

The maximum operating temperature for the hydraulic oil must not exceed 65° C (150° F). If operational or ambient conditions cause the hydraulic oil to exceed this temperature then adequate cooling must be provided.

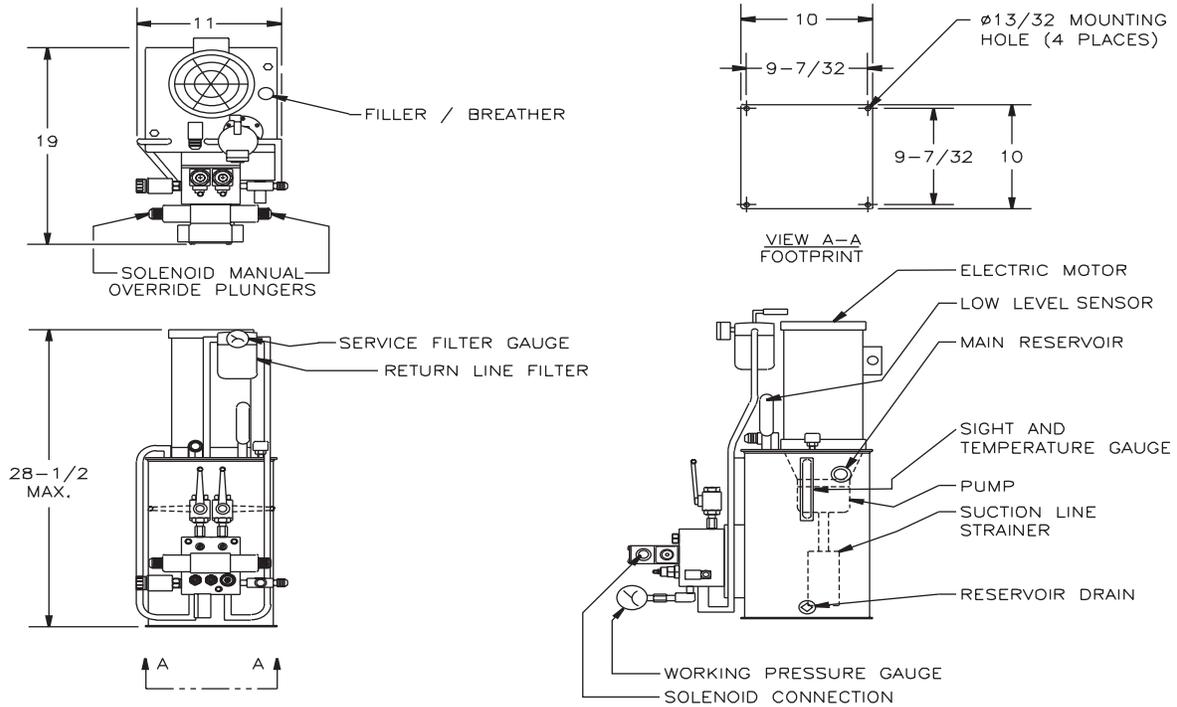
The minimum operating temperature is 40° C (104° F). If conditions are such that the oil temperature is below this temperature consult the factory.

The minimum start up oil temperature is 0° C (32° F). If the start up oil temperature is below or remains near 0° C for more than a brief interval, consult the factory.

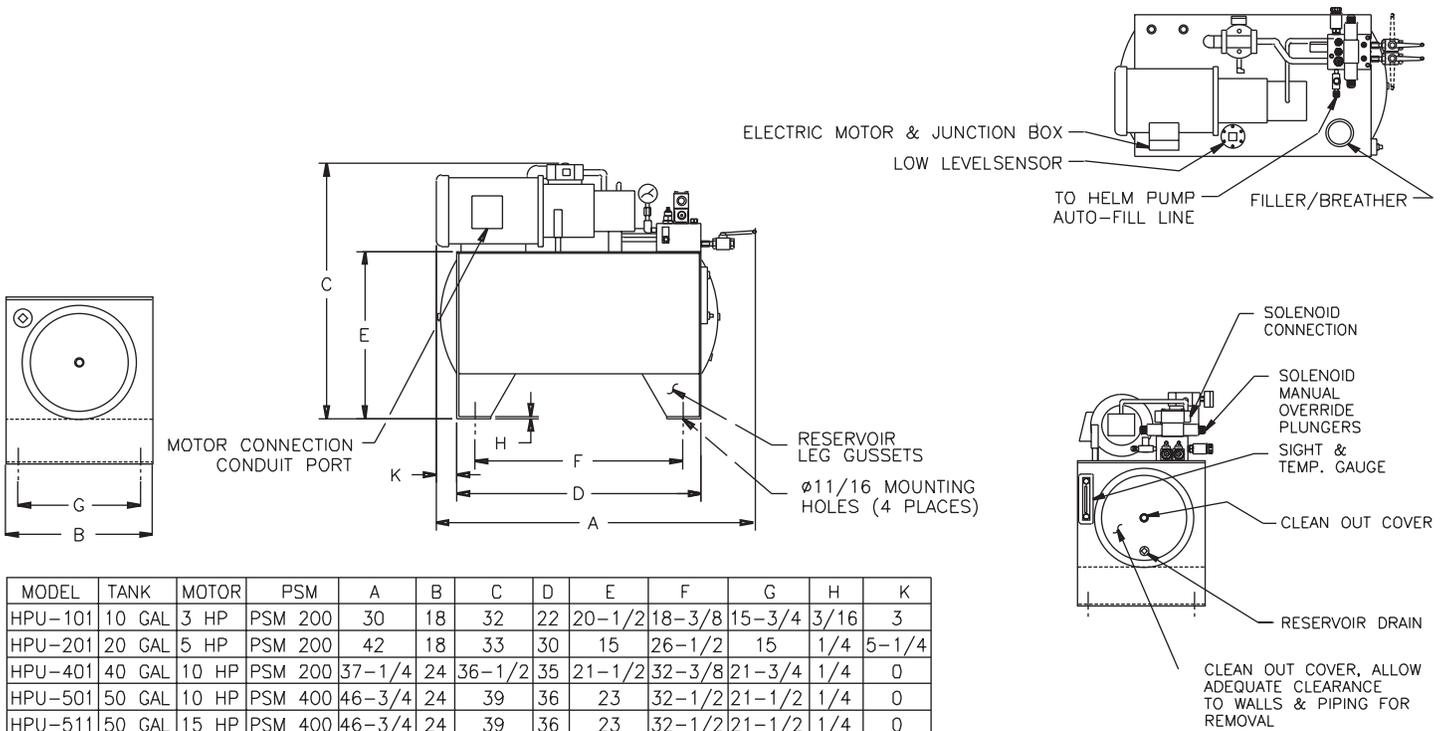


Pre-engineered HPU Overall Dimension Drawings

HPU-051



HPU-(101 to 511)



Data is subject to change without notice.