

P3 PISTON POWER LITTLE BOY PUMP SPECIFICATION

Pump shall be a pressure vessel drainer operated by steam, compressed air or other pressurized gas to 150 psig. Body shall be fabricated steel, cast ductile iron or 304ss. When requested, unit shall be equipped with an external cycle counter and sight glass and insulating jacket.

MAXIMUM OPERATING CONDITIONS

PMO: Max. Operating Pressure	150 psig	(10.3 barg)
TMO: Max. Operating Temperature	400°F	(204°C)
PMA: Max. Allowable Pressure	150 psig	(10.3 barg)
TMA: Max. Allowable Temperature	400°F	(204°C)

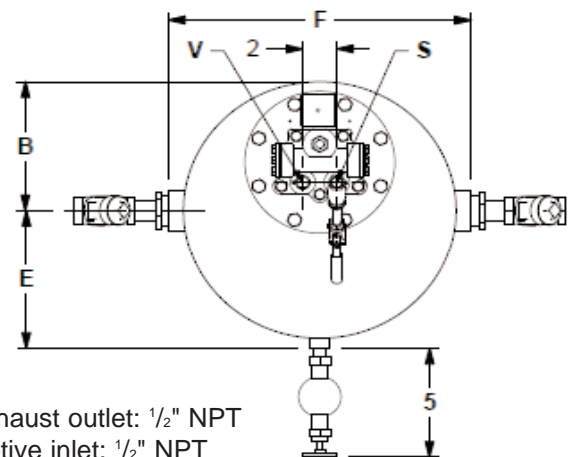
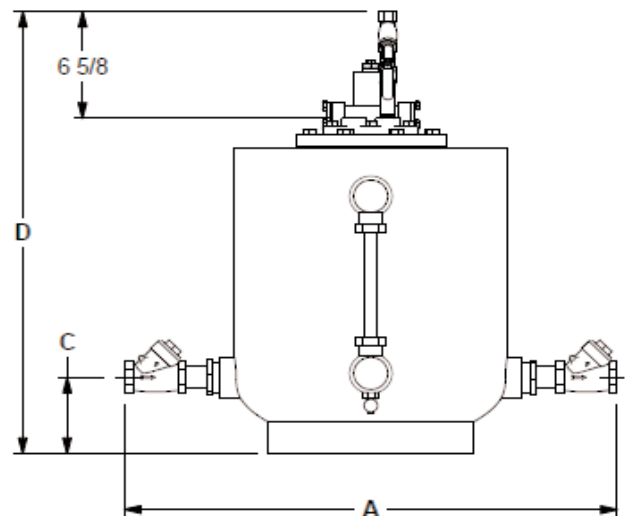
MATERIALS OF CONSTRUCTION

Tank Weldment	Steel, Ductile Iron or 304ss
Trip Mechanism w/Flange	Stl/SS
Gasket	Graphite
Bolt, Hex Head	Steel
Nameplate	Aluminum
Drive Screw	Steel
Water Level Gage	Bronze
Inlet Reducer	M. Iron
Inlet Nipple	Steel
Inlet Check Valve	Bronze/Stainless Steel
Outlet Reducer	M. Iron
Outlet Nipple	Steel
Outlet Check Valve	Bronze/Stainless Steel

OPERATING CHARACTERISTICS

Pump Discharge per Cycle:	4.2 - 5.1 Gal
Max. Instantaneous Discharge Rate:	60 GPM (w/1½" outlet check)
Steam Consumption:	~3 lbs per 1000 lbs. of hot condensate pumped
Air Consumption:	~100 SCF per 1000 lbs. of liquid pumped
Recommended Filling Head:	6"

Canadian Registration # 1353.9C



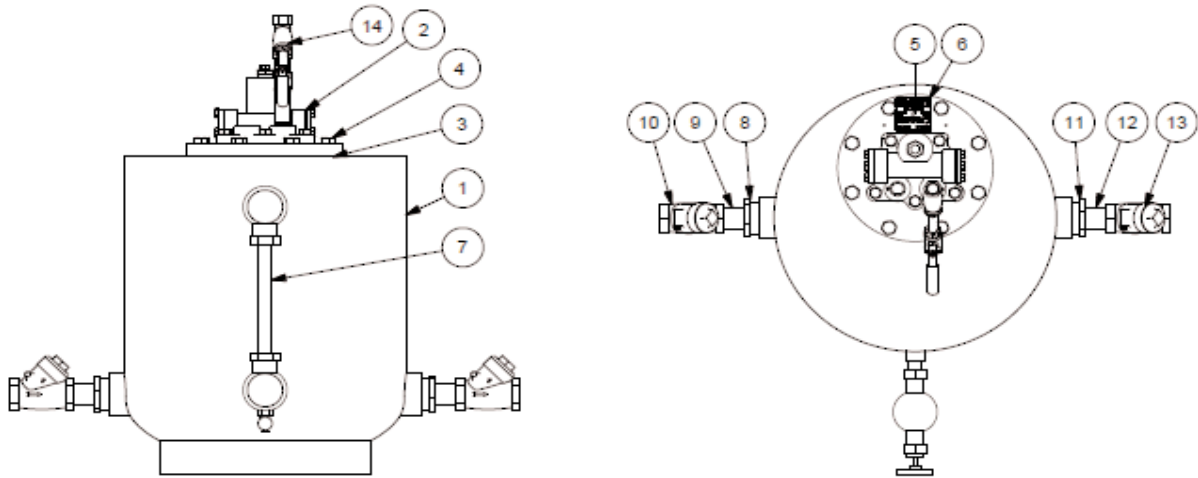
Exhaust outlet: ½" NPT
Motive inlet: ½" NPT

Connections:
1" x 1" to 1½" x 1½" NPT

STEEL DIMENSIONS							
SIZE	INCHES (mm)						WEIGHT lbs(kg)
	A	B	C	D†	E	F	
1" X 1"	26-3/4 (679)	8 (203)	5 (127)	27-5/8 (702)	9 (229)	17-3/4 (451)	145 (66)
1-1/2" X 1-1/2"	29-1/2 (749)	8 (203)	5 (127)	27-5/8 (702)	9 (229)	17-3/4 (451)	155 (71)
DUCTILE IRON DIMENSIONS							
SIZE	INCHES (mm)						WEIGHT lbs(kg)
	A	B	C	D†	E	F	
1" X 1"	26 (660)	7-3/8 (187)	3 (76)	17-7/8 (454)	7-1/2 (191)	15-1/2 (394)	173 (78)
1-1/2" X 1-1/2"	28-3/4 (730)	7-3/8 (187)	3 (76)	17-7/8 (454)	7-1/2 (191)	15-1/2 (394)	173 (78)

†Allow additional 18" clearance for maintenance.

P3 LITTLE BOY PUMP PARTS LIST



Parts List	Little Boy			
Item No.	Description	Material	1" x 1"	1 1/2" x 1 1/2"
1	Little Boy Pump Tank	Steel	0014189	0014189
		DI	423544	423544
2	P3 Mechanism w/Flange, w/o Cycle Counter	Steam Service	6939904	6939904
		Air Service	6939924	6939924
2a	P3 Mechanism w/Flange, w/ Cycle Counter	Steam Service	6939914	6939914
		Air Service	6939934	6939934
3	Gasket	Graphite	0621230	0621230
4	Bolt, Hex Head	Steel	0046626	0046626
5	Nameplate	Aluminum	0028418	0028418
6	Drive Screw	Steel	0028250	0028250
7	Water Level Gage	Bronze	0018133	0018133
8	Inlet Reducer	Malleable Iron	05-15396-00	-
9	Inlet Nipple	Malleable Iron	05-02807-00	05-15404-00
10	Inlet Check Valve	Bronze	0016315	0016314
		Stainless Steel	0016294	0016295
11	Outlet Reducer	Steel	05-15396-00	-
12	Outlet Nipple	Steel	05-02807-00	05-15404-00
13	Outlet Check Valve	Bronze	0016315	0016314
		Stainless Steel	0016294	0016295
14	Motive Strainer	Stainless Steel	0050-300Y1TT-A8	0050-300Y1TT-A8
	Cycle Counter		0016343	0016343
	Insulating Jacket		0014214	0014214

CONDENSATE COMMANDER PUMP CAPACITY TABLE*

P3 - Piston Power Pump Capacity Table* (lbs/hr)										
Motive Pressure		Back Pressure		Fill Head 6"		Fill Head 12"				Fill Head 12"
				Little Boy		Classic Vertical & Classic Horizontal				Classic Duplex
psig	barg	psig	barg	1 X 1	1.5 X 1.5	1 X 1	1.5 X 1.5	2 X 2	3 X 2	3 x 2
250	17.2	40	2.76			3000	4300	8700	9200	18400
		60	4.14			2750	4050	5600	6050	12100
		80	5.52			2650	4000	4850	5100	10200
		100	6.90			2350	3700	4000	4700	9400
		120	8.28			2200	3600	3950	4100	8200
		150	10.34			2050	3450	3650	3800	7600
		175	12.07			1900	3300	3400	3550	7100
		200	13.79			1850	3300	3350	3450	6900
		225	15.52			1700	3000	3050	3200	6400
200	13.8	40	2.76			3450	4900	10000	10600	21200
		60	4.14			3200	4700	6500	7050	14100
		80	5.52			2900	4550	4950	5250	10500
		100	6.90			2700	4250	4600	4900	9800
		120	8.28			2500	4150	4450	4650	9300
		150	10.34			2300	3900	4100	4300	8600
		175	12.07			2150	3750	3800	4000	8000
150	10.3	25	1.72	2400	3000	4100	5900	12000	12700	25400
		40	2.76	2300	2600	3900	5350	7400	7950	15900
		60	4.14	2200	2250	3500	5100	6200	6500	13000
		80	5.52	2050	2050	3150	4800	5350	5500	11000
		100	6.90	1900	1950	2800	4400	4500	4750	9500
		120	8.28	1800	1800	2450	4050	4100	4300	8600
125	8.6	25	1.72	2500	3050	3350	7750	10900	12300	24600
		40	2.76	2300	2700	3250	6500	8300	8800	17600
		60	4.14	2150	2500	3150	5500	6200	6500	13000
		80	5.52	2000	2150	3050	4800	5750	6200	12400
		100	6.90	1900	1900	2900	4100	5000	5300	10600
		115	7.93	1800	1750	2750	3600	4500	4650	9300
100	6.9	15	1.03	3950	5950	4950	9100	11900	15550	31100
		25	1.72	3450	4300	4400	7300	10200	12200	24400
		40	2.76	2900	3450	4000	6100	7650	9200	18400
		60	4.14	2450	2850	3650	4600	5450	6000	12000
		80	5.52	2100	2350	3300	4000	4650	5100	10200
75	5.2	15	1.03	4000	7400	5100	8700	13700	16200	32400
		25	1.72	3400	6300	4300	7250	10100	12200	24400
		40	2.76	2950	5000	3700	6000	7500	9000	18000
		60	4.14	2850	3450	3350	4700	5200	5650	11300
50	3.5	10	0.69	4000	7650	4900	9050	12450	13200	26400
		25	1.72	3350	5500	4050	7000	7900	8400	16800
		40	2.76	2950	4000	3500	5500	5850	6250	12500
25	1.7	5	0.34	4100	7700	4650	8600	12800	16050	32100
		10	0.69	4000	6600	4400	7700	11100	12150	24300
		15	1.03	3750	5700	4000	6700	8550	8800	17600
10	0.7	2	0.14	4000	8200	4400	8350	12200	13250	26500
		5	0.34	3600	7150	3900	7250	7950	8450	16900

* Capacities shown are obtained with factory supplied check valves and based on 1/2" motive steam and 1/2" vent line pumping hot condensate. For other multiplex capacities, consult factory.
For Kg/Hr multiply by .454

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