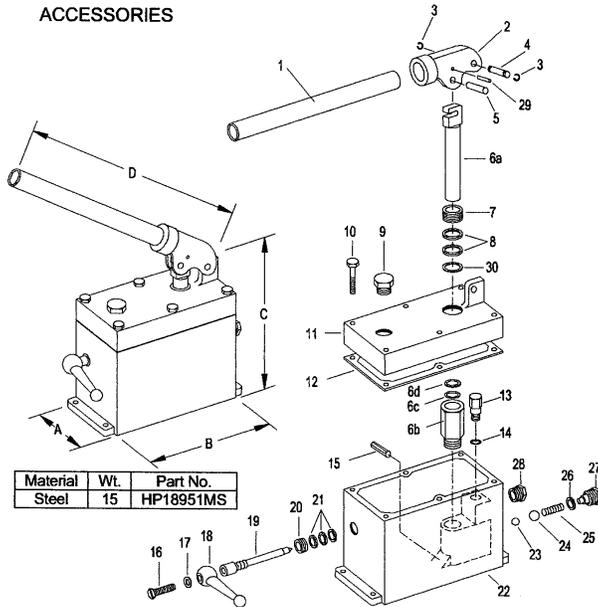


# Western Pacific Products, Inc.

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## ACCESSORIES



Material	Wt.	Part No.
Steel	15	HP18951MS

DIMENSIONS			
A	B	C	D
3 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>16</sub>	17 <sup>3</sup> / <sub>4</sub>

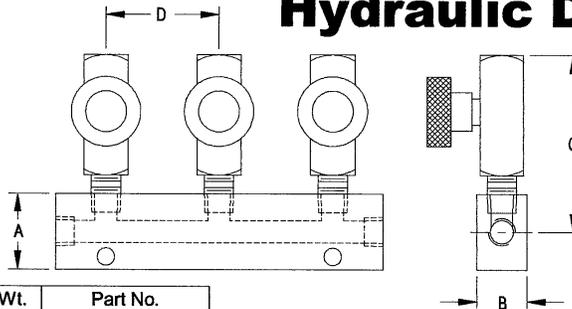
## SPECIFICATIONS

RATED PRESSURE (PSI)	HANDLE EFFORT AT RATED PRESSURE (LBS.)	DISPLACEMENT CU. IN. PER STROKE	USABLE OIL CAPACITY CU. IN.		RELIEF VALVE
			Closed	Vented	
2500	64	.18	35	53	Yes

## Hydraulic Pump

Item	Part No.	Hydraulic Pump Parts
1	HP18001	Handle
2	HP18002	Beam
3	HP18003	Snap Ring Clip
4	HP18004	Beam Pin
5	HP18005	Plunger Cross Pin
6a	HP18965	Piston
6b	HP18966	Piston Sleeve
6c	HP18967	O-Ring
6d	HP18968	Backup Ring
7	HP18007	Packing Nut
8	HP18008	Packing
9	HP18009	Plug
10	9Q5813	Hex Head Cap Screw
11	HP18011	Base Cover
12	HP18012	Gasket
13	HP18013	Relief Valve
14	HP18014	Gasket
15	HP18015	Screen
16	HP18016	Screw
17	HP18017	Washer
18	HP18018	Release Handle
19	HP18019	Relief Valve Assembly
20	HP18020	Packing Nut
21	HP18021	Packing
22	HP18022	NOT SERVICEABLE
23	HP18023	Ball
24	HP18024	Ball
25	HP18025	Spring
26	HP18026	Gasket
27	HP18027	Plug
28	HP18028	Plug
29	HP18029	Roll Pin
30	HP18330	Washer
	HP16422	Release Valve Kit (16-21)
	HP16256	Seal & Gasket Kit (6c,6d,8,12,14,21 & 26)
	HP16257	Service Kit (6a,6b,8,12,21,23 & 26)

## Hydraulic Distributor



Description	Wt.	Part No.
2 Compartment	1.8	CH16283-2MS
3 Compartment	2.7	CH16283-3MS
4 Compartment	3.6	CH16283-4MS
5 Compartment	4.5	CH16283-5MS
6 Compartment	5.4	CH16283-6MS

DIMENSIONS			
A	B	C	D
1 <sup>1</sup> / <sub>2</sub>	1	4	2 <sup>1</sup> / <sub>4</sub>

NOTE: All connections 1/4 N.P.T.

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## Hydraulic Pump

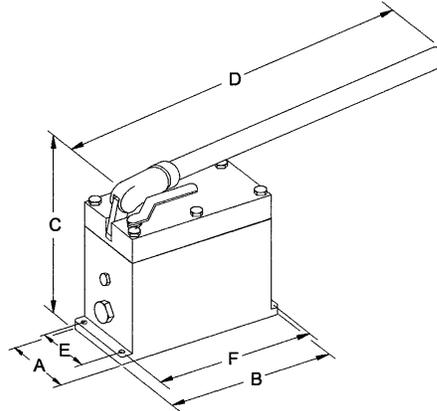
The new Betts Hydraulic Pump HP19165MS has been designed as an easily maintained pump for use with any Betts hydraulic operated valve. Pump is made of cast iron, has a stainless steel piston, replaceable release valve seat and an internal pressure relief valve set to bypass at approx. 3000 psi.

### SPECIFICATIONS

RATED PRESSURE (PSI)	HANDLE EFFORT AT RATED PRESSURE (LBS)	DISPLACEMENT CU. IN. PER STROKE	OIL CAPACITY		RELIEF VALVE	WEIGHT
			TOTAL	USEABLE		
3000	120	.19	28oz	21oz	YES	21.6#

### DIMENSIONS

A	B	C	D	E	F	S.H
4 $\frac{1}{4}$	8	7	14	2 $\frac{1}{16}$	7 $\frac{1}{8}$	3 $\frac{7}{8}$



### INSTALLATION INSTRUCTIONS

- Step #1 Mount pump in desired location allowing sufficient space to move release valve handle, which is located next to the piston, in a clockwise motion. If pump is to be mounted in a vertical position, the following steps should be done while pump is horizontal. See Section 35, Page 3C3 for further instructions if pump is to be mounted vertically.
- Step #2 Remove  $\frac{1}{4}$  NPT plastic plug from discharge port located in front of pump and connect hydraulic line. Pump comes filled with hydraulic fluid so some leakage may occur when making this connection.
- Step #3 Remove  $\frac{3}{8}$  NPT plug located next to the piston. This port is used when adding hydraulic fluid to the reservoir and also provides access to make adjustments to the pressure relief bypass valve if necessary.
- Step #4 Loosen last fitting in line to each valve. Move release valve handle clockwise until it is seated. Operate pump until all air is purged from the hydraulic lines. If necessary, refill pump reservoir with a good grade of hydraulic fluid. Tighten all fittings.
- Step #5 Operate pump until pressure relief valve bypasses. This should be at approx. 3000 psi. If adjustment is needed to the pressure relief valve, insert  $\frac{1}{32}$  allen wrench through filler port into top of pressure relief valve. Turning clockwise will increase the set pressure while a counterclockwise turn will decrease the set pressure.
- Step #6 Install breather plug in the filler port as indicated on next page. (Note different positions of plug based on pump orientation.) This is the metal plug with an o-ring furnished with each pump. (Note: vent plug is shipped beneath Red Plastic Cap where handle is inserted.) This plug allows the reservoir to breath thus permitting use of a larger volume of the hydraulic fluid. Pump is now ready for use.
- Step #7 Operate pump a few times, each time releasing pressure by turning release valve handle counterclockwise. Check all fittings for hydraulic leaks. System is now ready for use.

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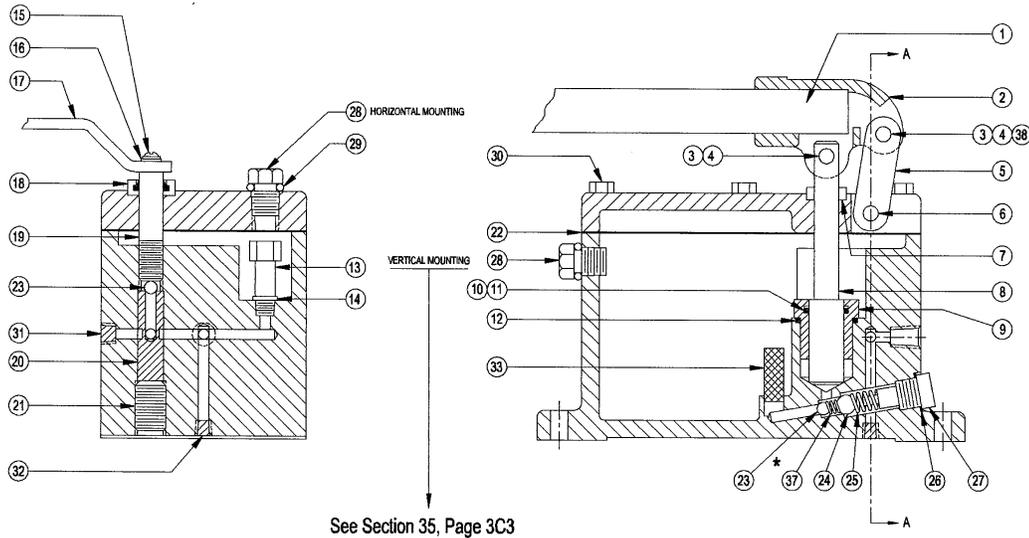
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## PARTS LIST

## Hydraulic Pump



See Section 35, Page 3C3

Item	Hydraulic Pump Parts	Part No.
1	Handle	HP19165-01
2	Beam	HP19165-02
3	Snap Ring	HP19165-03
4	Beam Pin	HP19165-04
5	Link	HP19165-05
6	Link Pin	HP19165-06
7	Oil Seal-Piston	HP19165-07
8	Piston	HP19165-08
9	Gland-Piston	HP19165-09
10	O-Ring-Piston	HP19165-10
11	Back-up Ring-Piston	HP19165-11
12	Teflon Seal	HP19165-12
13	Relief Valve	HP19165-13
14	Gasket-Relief Valve	HP19165-14
15	Screw-Release Valve	HP19165-15
16	Washer Set(Star & Flat)-Release Valve	HP19165-16
17	Handle-Release Valve	HP19165-17
18	Oil Seal-Release Valve	HP19165-18
19	Stem-Release Valve	HP19165-19

Item	Hydraulic Pump Parts	Part No.
20	Seat-Release Valve	HP19165-20
21	Set Screw-Release Valve Seat	HP19165-21
22	Gasket-Cover	HP19165-22
23	Ball 1/4 Dia.	HP19165-23
24	Ball 3/8 Dia.	HP19165-24
25	Spring-Check Valve	HP19165-25
26	Gasket-Check Valve	HP19165-26
27	Plug-Check Valve	HP19165-27
28	Vented Plug	HP19165-28
29	O-Ring-Vented Plug	HP19165-29
30	Cap Screw 3/16-18x1 1/4	HP19165-30
31	Pipe Plug 1/8NPT	HP19165-31
32	Pipe Plug 1/16NPT	HP19165-32
33	Screen	HP19165-33
34	Release Valve Service Kit(18,20,22,23)	HP19165-34
35	Piston Service Kit(10,11,12,22)	HP19165-35
36	Complete Service Kit(3,7,10,11,12,14,18,20,22,23,24,26)	HP19165-36
*37	Spring – Small – Check Valve	HP19165-37
38	Spacer Washer	HP19165-38

\* Install for vertically mounted pumps only.

**WARNING** Use only genuine Betts Industries Inc. replacement parts. Use of substitute parts can impair the proper functioning of this product.

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