ENERPAC.

Parts & Instruction Sheet

EH-462-1, EH-464-1

1st Stage MODEL NO. SHOWN — EH-464-1 2nd Stage Maximum Pressure 200 psi 10,000 psi Volume per Stroke 8.14 cu. in. 294 cu. in. Piston Stroke 11/2'' 11/2" -- 68 P462-I ONLY -71 - 27 -72 52,53 - 75 25 -24 23 14,15 60 <u>i</u>— 61

INSTRUCTIONS

PRELIMINARY PROCEDURE

- 1. Remove air vent assembly (Item No. 52) and gasket (Item No. 53).
- Reservoir should be filled to bottom of filler pipe stand (with all cylinders retracted).
- If necessary, add ENERPAC HOF-100 series hydraulic oil. DO NOT OVER_FILL

CAUTION: The use of other fluid may cause extensive damage to the pump. Such damage is not covered by the ENERPAC Warranty.

- 4. Replace air vent assembly and gasket.
- 5. Turn air vent screw counter-clockwise one turn.

INSTALLING GAGE (OPTIONAL EQUIPMENT)

- (EH462-1 ONLY) Remove plug (Item No. 75) from hose connection port.
 - (EH-464-1 ONLY) Remove plug (Item No. 49) from hose connection port.
- Screw GCA-1, GCA-2, or GCA-3 gage adaptor into hose connection port.
- NOTE: The GCA-3 gage adaptor is used with gage GCF813S only.
- 3. Screw gage into center port of gage adaptor.
- Make sure all connections are tight. (Use a small amount of pipe dope on all threaded connections.

ADJUSTING RELIEF VALVE

- 1. Gage and gage adaptor must be installed.
- 2. Use pipe plug to block off oil flow from gage adaptor.
- (EH-462-1 ONLY) Turn valve handle (Item No. 70) to maximum clockwise ("closed" position).

(EH-464-1 ONLY) Place valve Handle (VM-40) over hose connection port in which gage adaptor is installed (valve position "A").

- Operate pump until gage pointer reaches maximum reading (relief valve pressure setting).
- 5. Remove adaptor plug (Item No. 65) and gasket (Item No. 64).
- Insert 7/32" Allen Wrench through hole into adjusting screw (located inside Item No. 78).
- Turn adjusting screw counter-clockwise to reduce the relief valve setting; clockwise to increase the relief valve setting (10,000 psi maximum).
- (EH-462-1 ONLY) Turn valve handle (Item No. 70) counterclockwise ("open" position).

(EH-464-1 ONLY) Move valve handle to center position.

Repeat steps 3, 4, 7 and 8 until desired relief valve setting is obtained.

EH-462-1 ONLY

HOSE CONNECTION

- Screw 3/8" N.P.T. hose end into gage adaptor or hose connection port.
- Connect hose half of Hi-Flow Coupler to cylinder half of coupler (JSS cylinder series furnished with cylinder half coupler installed).

VALVE OPERATION

 To extend cylinder plunger - turn valve handle (Item No. 70) to maximum clockwise ("closed" position). Operate pump until work is completed.

WARNING: Do not exceed rated cylinder capacity or plunger stroke.

- To retract cylinder plunger turn valve handle (Item No. 70) counterclockwise ("open" position). Cylinder will retract without pump operation.
- Extend cylinder plunger several times to purge air from system (cylinder should be lower than pump reservoir).

EH-464-1 ONLY

HOSE CONNECTION (SINGLE-ACTING CYLINDER)

- Screw 3/8" N.P.T. hose end into gage adaptor or hose connection port.
- Connect hose half of Hi-Flow Coupler to cylinder half of coupler (JSS cylinder series furnished with cylinder half coupler installed).
- Second single-acting cylinder can be connected to remaining hose connection port (repeat steps 1 and 2).

VALVE OPERATION (SINGLE-ACTING CYLINDER)

- To extend plunger of first cylinder place valve handle (Item No. 47A) over hose connection port in which gage is installed (valve position "A"). Second cylinder plunger will retract.
- To extend plunger of second cylinder place valve handle (Item No. 47A) over second hose connection port (valve position "B"). First cylinder plunger will retract.

NOTE: Both cylinder plungers will hold when the valve handle (Item No. 47A) is placed in center position.

3. Extend cylinder plungers several times to purge air from system (cylinders should be lower than pump reservoir).

VALVE OPERATION (DOUBLE-ACTING CYLINDER)

 To extend cylinder plunger - place valve handle (Item No. 47A) over hose connection port in which gage is installed (valve position "A"). Operate pump until work is completed.

WARNING: Do not exceed rated cylinder capacity or plunger stroke.

- 2. To release load move valve handle to center position.
- To retract cylinder plunger move valve handle to valve position "B". Operate pump until cylinder plunger is retracted.
- 4. To hold load leave valve handle in operating position ("A" or "B").
- Extend cylinder plunger several times to purge air from system (cylinder should be lower than pump reservoir).
 NOTE: Make sure couplers are wiped clean when making or breaking a connection. Hi-Flow Coupler halves seal themselves

breaking a connection. Hi-Flow Coupler halves seal themselves against oil leakage when disconnected. Dust caps should be attached to prevent dirt from entering exposed ends of Hi-Flow Coupler.

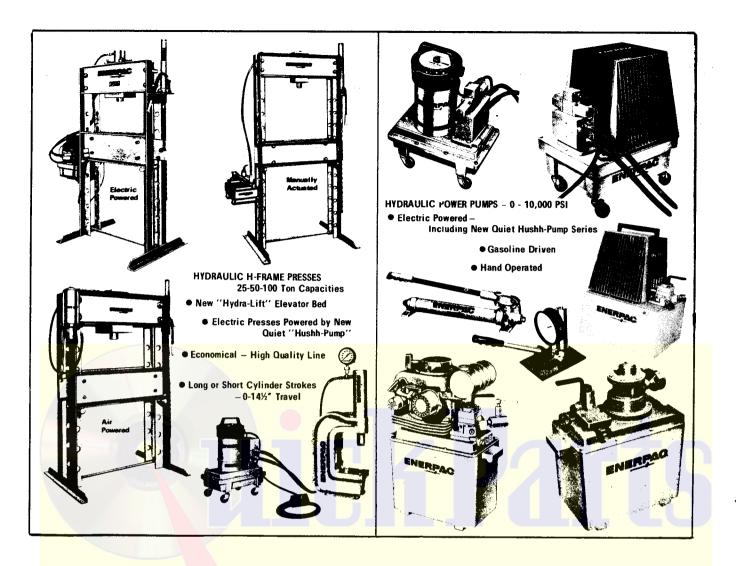
HOSE CONNECTION (DOUBLE-ACTING CYLINDER)

- 1. Screw 3'8" N.P.T. hose end into gage adaptor.
- Connect hose half of Hi-Flow Coupler to cylinder half coupler located near bottom of double-acting cylinder (JDS cylinder series furnished with cylinder half couplers installed).
- 3. Remove pipe plug from second hose connection port.
- Screw second 3 /8" N.P.T. hose end into remaining hose connection port in valve.
- Connect hose half of Hi-Flow Coupler to cylinder half coupler located near the plunger end of double-acting cylinder (JDS cylinder series furnished with cylinder half couplers installed).
 IMPORTANT: Make sure both Hi-Flow Couplers are fully engaged.

PARTS LIST

Item		No. Req'd.	Part Number	Item No.	Description	No. Req'd.	Part Number
No.	Description		Fart Number		Washer		L625.108
1	Ball (7/32")	1		44	Washer Cap Screw (EH-464)	3	C299.128
2	Ball (5/16'')	1		45	Cap Screw (EH-464)	2	C301.128
3	Spring	1	*	46	·	1A	VM-40
4	Connector	1	C764.096	47	Valve (EH-464)	1	C293.345
5	Tube Assembly	1	C784.268	48	Adaptor Block (EH-464)	•	
6	Elbow	1	C765.096	49	Plug (Plastic)	1	R515.245
7	Spring	1	*	50	Plug (EH-464)	1	C169.245
8	Piston	1	C496.900	51	Gasket	1	0514.000
9	Back-Up Washer	1	*	52	Air Vent Assembly	1	C514.900
10	"O" Ring	1	*	53	Gasket	1	P182.167
11	Gasket	1	*	54	Reservoir Cover	1	C574.098
12	Plug	1	C770.185	55	Reservoir Gasket	1	*
13	Screen	2	C590.018	56	Reservoir	1	C377.025
14	Safety Valve	1	C949.900	57	Cap Screw	2	B794.173
15	Gasket	1	\$3.037	58	Tie Rod	1	C344.396
		1	C600.005	59	Hex Nut	2	SJ100.270
16	Pump Body	1	*	60	Pump Skid	2	C343.641
17	Ball (7/16")	1	*	61	Cap Screw	4	B794.173
18	Spring	1		62	Lock Washer	10	J-66
19	Gasket		C770.185	63	Cap Screw	10	SJ100.078
20	Plug		0770.100	64	Gasket	1	P182.47
21	Spring	1			Adaptor Plug	1	P182.150-1
22	Ball (5/16")	1		65	Gasket	1	B159.167
23	Gasket	1	0.500.405	66	Plug		AJ100.061
24	Plug	1	C596.185	67	•	1	C302.128
25	"U" Cup	1B	_	68	Screw (EH-462)	·	
26	Retaining Nut	1	F20.005	69	Washer (EH-462)	1	D220.108
27	Plunger Assembly	1	C577.900	70	Handle (EH-462)	1	C303.070
28	Cylinder	J 1	C584.030	71	Back-Up Washer		* *
29	Handle Assembly	1	C397.900	72	"O" Ring	1	C790.010
30	Beam	1	C576.060	73	Valve Spindle	1	
31	Pin	1	P75.57	74	Ball (5/16")	1	* *
32	Retaining Ring	2	*	75	Plug (Plastic)	1	R515.245
33	Pin	1	CB334066	76	Valve Body (EH-462)—C		
34	Cap Screw	4	C589.128	77	Cap Screw (EH-462)	6	C806.048
35	Gasket	4	C846.037	78	Relief Valve	1	P181.190
		-1	*	79	Gasket	1	B159.167
36	Wiper Ring	1	C575.020		Decal	1	*
37	Top Cap	1	*	*	Pump Packing Kit		P462K-1
38	Gasket	1	*	**	VM-2 Packing Kit		VM2K
39	"O" Ring		_		Refer to VM-40 Parts Sheet for Repair Parts		
40	Back-Up Washer	1	*	В	Free Floating "U"		
41	Connector	1	C649.270	C	Replace with same		
42	Gasket	1	\$15.167		Pump.	- additity	
43	Spacer	1	L624.186		r ump.		

OTHER ENERPAC® PRODUCTS



T E C H N O L O G Y

NOTE: Orders for parts cannot be filled unless both model and serial number with prefix imprinted on nameplate are given.

PARTS AND SERVICE

For quality workmanship and genuine ENERPAC parts, select a Franchised ENERPAC Service Depot for your repair needs

Only repairs performed by a Franchised Service Depot displaying the official ENFRPAC Franchised sign are backed with fu. factory warranty.

The Classified Section in your Phone Book lists your nearest Franchised Service Depot.

WARRANTY

ENERPAC warrants its products against defects in workmanship and materials for 90 days from date of delivery to user. Chain is not warranted.

Warranty does not cover ordinary wear and tear, abuse, misuse, over-loading, altered products or use of improper fluid.

WARRANTY RETURN PROCEDURE

When question of warranty claim arises, the user should send his unit to the nearest ENERPAC Franchised Service Depot for inspection, transportation to be prepaid and evidence of purchase date furnished. If the claim comes under the terms of our warranty, the Franchised Service Depot will REPAIR OR REPLACE PARTS AFFECTED and return prepaid.



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