

# Part # M404-310-P Hydraulic Power Pack

### **Operator's Manual**

Hydraulic Power Pack # M404-310-P used on 310 Series Tilt-To-Load Drum Tumblers with Serial Number 419862 to \_\_\_\_\_

#### **Maintenance info for Hydraulic Pump**

Recommended oil is petroleum based Dexron III ATF or equivalent (non-synthetic).

Change oil yearly.

#### **Recommended Operating Conditions:**

- Oil Temperature Range: 10°F to 170°F (-25°C to 77°C)
- Operating Temperature: 50°F to 130°F (10°C to 54°C)

#### Oil Viscosity:

- Optimum 100 to 350 SUS (Cst = .22 X SUS 135/SUS)
- · Minimum 100 SUS at Operating
- Maximum Start Up 4000 SUS

#### **Recommended Filtration:**

10 micron nominal or better

The system should not be disassembled in the field for maintenance. These are pass or fail components.

If the valve or pump fails it will need to be replaced due to wear on components.

The root cause for the failure needs to be taken into account to avoid contaminating the new components or to avoid exposing them to the same fail parameters.



## Part # M404-310-P

# **Hydraulic Power Pack**

MONARCH HYDRAULICS INC..

AND IS NOT TO

BE USED DIRECTLY

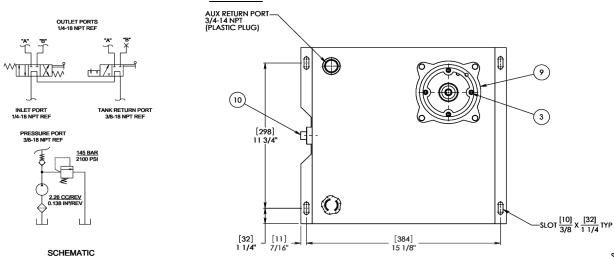
OR INDIRECTLY IN

ANY WAY
DETRIMENTAL TO

OUR INTEREST

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ITEM	QTY.	PART#	DESCRIPTION
1	1	M12526-P	BASE ASM, M404, MOD, STD MTR
2	1	M12533-270-P	PUMP ASM, GEAR CODE 270, 310
3	8	M07818-P	SHCS, 1/4-20 X 3
4	1	M13016-07.75-P	TUBE, SUCTION, 1/2 NPT, NYLON
5	1	M01479-10-P	TUBE, RETURN, 1/8 NPT, NYLON
6	1	M13015-P	FILTER, SUCTION, 1/2", MON
7	1	M14082-P	RESERVOIR, RECTANGULAR, 310
8	1	M01143-P	PLUG, BREATHER, FILLER MON
9	1	M01615-P	HOUSING, PUMP/ MOTOR ADAPTER
10	1	M01075-P	PLUG, PIPE, SQ HEAD, 5/8, MON
11	6	M07703-P	SCREW, 10-24 X 3/8 TF
12	1	M01319-P	ADAPTER, PUMP VALVE, 3-3/8
13	1	M07381-SAE-P	VALVE, 3-4 WAY, 456, 310, SAE
14	1	M17079-P	PARTS KIT, MON, 456, 310
15	1	LAB-010	LABEL, USE DEXRON A.T.F. ONLY
16	1	M18002-P	COUPLING ASM, 5/8 TO 7/16, MON
17	2	M00018-P	SPRING, TORSION, MON
18	2	M01157-P	BALL, PLASTIC, HANDLE, MON
19	2	M01326-P	ROD, 4"L, VALVE HANDLE, MON

