# 12VDC Power Units with Control Station

MONARCH

Basic Power Unit—For remote requirements using

special manifolds for control. Manual Release—Designed

#### for single-acting cylinders on lift, hold, and lower circuits. Features a multidirectional handle control. Includes a manual lowering valve.



**Remote Release with Control** Station—Controls lift and hold circuits: Power Unit—2-position. includes a solenoid lowering valve, and 10-ft. cord for start and lower functions on single-acting cylinders.

## **Birotational Power Unit with**

Control Station-For use with horizontally configured cylinders. Directional solenoid valves are not required for use in double-acting cylin-

emote	Double-Acting

R

4-way solenoid valve allows bidirectional control of doubleacting cylinders and hydraulic motor applications. Includes a pilot-operated check valve and relief valve.

Note: Go to Grainger.com for Accessory Control Stations. Search for "Control Station for Power Unit".

## MAXIM



For Power Up and Power Down operations and has a check valve, preventing reverse flow and protect pump. 35LP42 is for load holding in 1 direction. Includes a relief valve and manual valve. 35LP41 lifts, holds, and lowers and is prewired with a quick-disconnect remote. Horizontal mounting.

Scan. Order. Done.

Details on page A1.

### CHIEF

Solenoid-operated unit is designed to lift, hold, and lower and comes with a wired remote control.

der applications. Includes 10-n. cord.	Reservoir	Nominal	Max		Overall	Overall	Overall		Mfr	ltem
Description	Cap.	Flow	Pressure	Pressure Port	Length	Width	Height	Brand	Model	No.
Basic Power Unit	1 gal	2.5 gpm	3,000 psi	%16"-18 (SAE 6)	18 ¾ in	7 1/8 in	7 ½ in	Monarch	M-3504-0239	36NE08
Manual Release	1 gal	2.5 gpm	3,000 psi	9/16"-18 (SAE 6)	18 ¾ in	6 11/16 in	7 <sup>15</sup> / <sub>32</sub> in	Monarch	M-3313-0106	36NE05
Remote Release with Control Station	1 gal	2.5 gpm	3,000 psi	9/16"-18 (SAE 6)	18 ¾ in	7 ½ in	7 ½ in	Monarch	M-3519-0419	36NE06
Birotational Power Unit with Control Station	1 gal	2 gpm	3,000 psi	7/16"-20 (SAE 4)	18 1/32 in	8 11/32 in	7 <sup>13</sup> / <sub>32</sub> in	Monarch	B-3530-0104	36NE07
Double-Acting Power Unit	0.75 gal	1.3 gpm	2,500 psi	1⁄4" NPT	20 ½ in	9 in	7 ½ in	Maxim	253109	35LP42
Remote Double-Acting Power Unit	1 gal	2.5 gpm	3,000 psi	1⁄4"-18 NPT	18 ¾ in	8 1⁄8 in	7 19/32 in	Monarch	M-3554-0157	36NE09
Remote Double-Acting Power Unit	0.75 gal	1.3 gpm	2,500 psi	%16"-18 (SAE 6)	22 ¾ in	8 ¾ in	8 ¼ in	Chief	253100	46C520
Remote Double-Acting Power Unit	3 gal	1.3 gpm	2,500 psi	9/16"-18 (SAE 6)	30 ½ in	7 ¾32 in	7 <sup>51</sup> ⁄ <sub>64</sub> in	Maxim	253147	35LP41
Remote Single-Acting Power Unit	1.5 gal	1.3 gpm	2,500 psi	9/16"-18 (SAE 6)	22 ¼ in	10 in	8 ¾ in	Chief	253119	46C519



 
 Heservoir Nominal
 Max.
 Overall
 Overall
 Overall
 Overall
 Overall
 Max.
 Item

 Cap.
 Flow
 Pressure Voltage
 Pressure Port
 Length
 Width
 Height
 Model
 No.

 Hydraulic
 Power Units with Remote Control Station
 0.6 gal
 2.5 gpm 3.000 psi 12V DC %/e<sup>-1</sup> 8 (SAE 6)
 16 % in 7 ½ in 7 ½ in M-3519-0420 36NE11

 0.6 gal
 3.4 gpm 3.000 psi 24V DC %/e<sup>-1</sup> 8 (SAE 6)
 16 % in 7 ½ in 7 ½ in M-3519-0421 36NE12
**DC Motor Pump Asse** 5 gpm 3,000 psi 12V DC %6"-18 (SAE 6) 10 2%2 in 5 7/6 in 7 %6 in M-3326-0218 36NE10

# **DC Lift Truck Power Units** and Motor Pump Assembly Valve pressure preset to 2500 psi

36NE11 and 36NE12—Designed for single-acting cylinders on lift, hold, and lower circuits usually found on forklifts and other material handling equipment. Units include check, adjustable relief, and solenoid lowering valves. Horizontal or vertical mounting with a 45° elbow provided for vertical mounting.

BUCHER hydraulics MONARCH

36NE10—Motor and pump unit includes check and relief valves. Vertical or horizontal mounting. Requires a remote reservoir. Note: Does not include remote handset.



 Straight-keyed shafts Max. oil temp.: 180°F

H Series—Direct-drive motors are designed with spool valve technology for medium-duty

applications. Include low-speed valving. Shaft speed and rotation direction can be controlled easily throughout the motors' entire speed range.

Pressure

1800

2400

2150 2000

1800 1500

1800

Model

101-1031

101-1025

101-1026

101-1707

101-1029

101-1030

101-1032

101-1700

Nn

5PZH1

5PZG6

5PZG7 5PZG8

5PZH3

5PZH4

5PZG9 5PZH0

5PZH2

4TY66

4TY67

Min. oil viscosity: 100 SUS

(Cu. In./Rev.) Max. RPM Rating (psi) H Series

192 RPM

969 RPM

969 RPM 760 RPM 585 RPM 469 RPM 385 RPM 353 RPM

304 RPM 243 RPM 192 RPM

152 RPM

969 RPM

Shaft size: 1" dia. x 1¾" L

Displacement

H Series 1/2-14 NPTF Port Size

1/2 in NPT Port Size

8.9 9.7

11.3

14.1

2.8

S Series—Similar to H Series motors, but with precisionmachined rollers to provide rolling contact support. Rollers further reduce friction for increased efficiency and

- extended motor life. - Min. oil viscosity: 70 SUS
- Shaft size: 1" dia. x 1¾" L 2 BOLT, 3.25 IN PILOT MOUNTING 1.75 IN PILOT, 4 BOLT MOUNTING Item Item

Model

101-1001

101-1001 101-1002 101-1003 101-1755 101-1756 101-1756

101-1005

101-100

101-1008

101-17/0

101-1009

No

5P7F8

5PZF9 5PZG0 5PZH5 5PZH6 5PZG1

5PZG2 5PZG4

5PZG5

5PZG3

47782

4TY83

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			2 BOL	T, 3.25 IN	1.75 IN	1.75 IN PILOT,			
Dicalacoment		Droceuro	Mfr	Itom	4 DULI IVI Mfr	ltom			
(Cu In /Rev.)	Max RPM	Rating (nsi)	Model	No	Model	No			
3.6	953 RPM	1800	101-1701	41168	101-1750	41784			
3.6	962 RPM	2000	103-1537	41100					
4.5	760 RPM	1800	101-1034	4TY69	101-1010	4TY85			
4.6	762 RPM	2000	103-1034	4TY95					
5.9	585 RPM	1800	101-1035	4TY70	101-1011	4TY86			
5.7	585 RPM	2000	103-1035	4TY96					
7.3	469 RPM	1800	101-1702	4TY71	101-1751	4TY87			
7.3	470 RPM	2000	103-1538	4TY97	_	_			
8.9	385 RPM	1700	101-1703	4TY72	101-1752	4TY88			
8.8	385 RPM	1900	103-1539	4TY98	_	_			
9.7	353 RPM	1650	101-1036	4TY73	101-1012	4TY89			
10.1	353 RPM	1900	103-1036	4TY99		_			
11.3	304 RPM	1600	101-1037	4TY74	101-1013	4TY90			
14.1	243 RPM	1450	101-1038	4TY75	101-1014	4TY91			
17.9	192 RPM	1350	101-1039	4TY76	101-1015	4TY92			
22.6	152 RPM	1250	101-1040	4TY77	101-1016	4TY93			
S Series									
1/2 in NPT Port	Size								
3.6	962 RPM	2500	103-1540	5PZK1	103-1573	5PZK4			
4.6	762 RPM	2500	103-1026	5PZJ4	103-1002	5PZH7			
5.7	585 RPM	2500	103-1027	5PZJ5	103-1003	5PZH8			
7.3	470 RPM	2500	103-1541	5PZK2	103-1574	5PZK5			
8.8	385 RPM	2350	103-1542	5PZK3	-	_			
10.1	353 RPM	2300	103-1028	5PZJ6	103-1004	5PZH9			
11.4	303 RPM	2250	103-1029	5PZJ7	103-1005	5PZJ0			
13.7	243 RPM	2050	103-1030	5PZJ8	103-1006	5PZJ1			
18.2	192 RPM	1800	103-1031	5PZJ9	103-1007	5PZJ2			
22.7	153 RPM	1500	103-1032	5PZK0	103-1008	5PZJ3			
7/8"-14 O-ring P	Port Size								
3.6	962 RPM	2000	_	_	103-1570	4UA14			
4.6	762 RPM	2000	_	_	103-1010	4UA15			
5.7	585 RPM	2000	_	_	103-1011	4UA16			
7.3	470 RPM	2000		-	103-1571	4UA17			
8.8	385 RPM	1900		_	103-1572	4UA18			
10.1	353 RPM	1900	_	_	103-1012	4UA19			
11.4	303 RPM	1850	103-1037	4UA10	103-1013	4UA20			
13.7	243 RPM	1700	103-1038	4UA11		_			
13.7	224 RPM	1700	_	_	103-1014	4UA21			
18.2	192 RPM	1500	103-1039	4UA12	103-1015	4UA22			
22.7	153 RPM	1300	103-1040	4UA13	103-1016	4UA23			



22.6 102 .... 7/8"-14 O-ring Port Size 1.021 RPM

## CONCENTR **Birotational Gear Pumps and** Pumps/Motors

GC Series-Viton lip seal, outboard bearing, an reversing check valves. Cast iron housing. 4-bo 4F17 mounting with 1/2" keyed x 11/2" long shaf extension and side outlet ports. Max. shaft spee is 5000 rpm; min. speed is 750 rpm. 4F652 to 4F659 function as either pumps or motors.

RIC	Displacement (Cu. In./Rev.)*	GPM @ 1800 rpm and 1000 psi	GPM @ 3600 RPM and 1000 PSI	Max. Continuous PSI	Ports (Inlet)	Ports (Outlet)	Mfr. Model	ltem No.
-	Hydraulic Gear	r Pump						
	0.065	0.51	1.01	3,000	%16 <b>-18</b>	9⁄16 <b>-18</b>	1002496	4F649
	0.097	0.6	1.2	3,000	%16-18	9⁄16 <b>-18</b>	1002497	4F650
	0.129	0.8	1.6	3,000	3⁄4-16	3⁄4-16	1002498	4F651
	<b>Hydraulic Gear</b>	Pump/Motor						
	0.194	1.2	2.5	3,000	3⁄4-16	3⁄4-16	1002499	4F652
۱d	0.258	1.6	3.3	3,000	3⁄4-16	3⁄4-16	1070054	4F653
lt	0.323	2.6	5.3	3,000	7⁄8-14	7⁄8-14	1070043	4F654
	0.388	2.4	5	3,000	7⁄8-14	7⁄8-14	1070045	4F655
τ	0.453	2.8	5.8	2,750	7⁄8-14	7/8-14	1070047	4F656
be	0.517	3.1	8	2,500	7⁄8-14	7⁄8-14	1070049	4F657
	0.647	3.9	8.3	2,000	7⁄8-14	7/8-14	1070035	4F658
	0.711	4.3	9.1	1,800	7⁄8-14	7/8-14	1070033	4F659
	* 1 cu. in./rev.	= 16.4 cu. cm (cc).						



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