



TOW AND RECOVERY PRODUCT OVERVIEW









POWER TAKE-OFFS AND HYDRAULIC COMPONENTS









F20 SERIES

• 10-bolt clutch shift PTO

• Designed for the Ford Super Duty trucks F-250–F-600

 Features patent-pending noise abatement technolog

Solenoid activated

MAX TORQUE

INTERMITTENT: 261 lbs.ft. (353 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 50 HP (37 kW)

APPROX. WEIGHT 29 lbs (13.2 Kg)

TRANSMISSION:

FORD 10R140



FR6Q SERIES

• Fits Ford Super Duty trucks with Ford 6R140 transmission, primarily F-350-550 (may also be used on F-650/F-750)

 Noise abatement mechanism eliminates virtually all gear rattle noise MAX TORQUE

INTERMITTENT: 200 lbs.ft. (271 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 39 HP (29 kW)

APPROX. WEIGHT 35 lbs. (15.9 Kg.)

TRANSMISSION:

FORD 6R140

TG SERIES

 Versatile PTO with 10 speed ratios for all popular transmissions

 Lightweight, reduced noise and superior heat dissipation

 Gear adapters available to create space and change output shaft rotation, or relocate the shaft

TRANSMISSIONS:

MAX TORQUE

INTERMITTENT: 285 lbs.ft. (386 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 54 HP (40 kW)

APPROX. WEIGHT

22 lbs. (10.0 Kg.)

AISIN, ALLISON, EATON FULLER, MACK



8405/6A SERIES

• 8-bolt mounting flange

 Robust design provides a rigid structure for high vibration environments MAX TORQUE

INTERMITTENT: 225 lbs.ft. (312 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 44

44 HP (33 kW)

APPROX. WEIGHT

37 lbs. (16.8 Kg.)

TRANSMISSIONS: EATON FULLER, MACK



CS6/8 SERIES

 Designed for Allison 1000 and 2000
 Series transmissions & many current manual transmissions

 Patented, Muncie Power drag break prevents shaft rotation in "off" mode

 Direct-mount flanges with ability to rotate allow the pump to be positioned for maximum clearance MAX TORQUE

INTERMITTENT: 300 lbs.ft. (407 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT:

57 HP (43 kW)

APPROX. WEIGHT

47-49 lbs. (21.3-22.2 Kg.)

TRANSMISSIONS:

AISIN, ALLISON, EATON FULLER, MACK



F SERIES

- 11 pump sizes available to fit a wide variety of applications
- Pressure-balanced bushing blocks and sleeve bearings provide long life and high performance

MAX OP. PRESSURE 3,625-2,320 PSI (250-160 BAR)

FLOW RATE (@ 1,000 RPM)* 1.60-8.70 GPM (6.06-33.0 LPM)

DISPLACEMENT 0.37-2.01 cu.in. (06-33 cc.)

APPROX. WEIGHT 7.69-10.01 lbs. (3.4-4.5 Kg.)





H SERIES

- All cast iron bushing pump designed for low to medium flow systems
- Available with integral, priority flow control capabilities; great for use on steering applications

MAX OP. PRESSURE	3,500-2,500 PSI (241-172 BAR)
FLOW RATE (@ 1,000 RPM)*	2.7-10.7 GPM (10-41.0 LPM)
DISPLACEMENT	0.62-2.48 cu.in. (10.2-40.6 cc.)
APPROX. WEIGHT	18-25 lbs. (8.3-11.3 Kg.)



K SERIES

- All cast iron construction with 4 ports and roller bearing design
- Designed to meet the application needs of either a pump or a motor

MAX OP. PRESSURE	3,000-2,500 PSI (207-172 BAR)
FLOW RATE (@ 1,000 RPM)*	4.2-17.1 GPM (15-64 LPM)
DISPLACEMENT	0.98-3.94 cu.in. (16.1-64.6 cc.)
APPROX. WEIGHT	26.5-34.1 lbs. (12.1-15.5 Kg.)



H/K SERIES

- Porting available on both the side and rear for tight-fitting chassis hookups
- Pressure-balanced wear plates provide high system efficiency for lower horsepower needs

MAX OP. PRESSURE	3,500-2,000 PSI (241-138 BAR)
FLOW RATE (@ 1,000 RPM)*	2.7-12.8 GPM (10.2-48.5 LPM)
DISPLACEMENT	0.62-2.96 cu.in. (10.2-48.5 cc.)
APPROX. WEIGHT	34-56 lbs. (15.4-25.4 Kg.)

^{*}Flow rates are theoretical.



CLUTCH PUMP MOUNTING KITS

- Available for the PF4 and PH1 Series clutch pumps
- Designed for applications on late model chassis to provide high pressure at low flow rates in a small package
- Provides for a quick and easy installation

V050 SERIES

• Small size, lightweight valve with versatile design configurations

 Available with 7, standard back-cap options and 5, standard control options **FLOW RATE**

Nominal: 13 GPM (50 LPM) Maximum: 16 GPM (60 LPM)

MAX PRESSURE

5,440 PSI (375 BAR)
1-3 Sections: 5,075 PSI (350 BAR)
4-6 Sections: 4,710 PSI (325 BAR)

MAX BACK PRESSURE 365 PSI (25 BAR)



HYPRESS R17

	MAX WORKING PRESSURE	3,045 PSI (210 BAR) in all sizes (Isobaric hose line)
 Specification: SAE 100R17 Special Features/Approvals: ABS Approval; MSHA Approved Outer Cover 	REINFORCEMENT TYPE	1 High-tensile Steel Wire Braid in sizes -04 through -08 (1/4"-1/2") 2 High-tensile Steel Wire Braids in sizes -10 through -16 (5/4"-1")
• Fittings: One-piece G Series	OPERATING TEMPS	-40°F to +248°F (-40°C to +120°C) Continuous
	AVAILABLE SIZES	-04 through -16 (1/4"-1")



HY-VACUUM R4

• Specification: SAE 100R4

 Special Features/Approvals: for use in inlet and suction applications where vacuum is present MAX WORKING PRESSURE

SURE 58-305 PSI (4-21 BAR)

REINFORCEMENT TYPE

2 Textile Braids + 1 Steel Helical Wire

OPERATING TEMPS

-40°F to +212°F (-40°C to +100°C) Continuous

AVAILABLE SIZES

-12 through -48 (34"-3")



CABLE CONTROLS

Cable controls are available in a wide variety of options including heavy-duty push-pull cables, vernier type throttle controls, replacement power take-off cables, and remote cable/lever controls for many popular brands of directional control valves.

- Attachment kits for popular valve models, ensuring smooth action while keeping contaminates out
- Works with air, cable, or solenoid shift stack valves
- May be banked together into a common console







TITAN® MC1 SERIES

 A medium-duty, clutch shift power take-off replacing the CS24/25 and HS24 Series

 The Titan MC1 power take-off has raised the bar on the life expectancy and durability of truck-mounted PTOs MAX TORQUE

INTER/CONTINUOUS: 415 lbs.ft. (563 Nm)

MAX HP (@ 1,000 RPM)

INTER/CONTINUOUS: 79 HP (59 kW)

APPROX. WEIGHT 47.2 lbs. (21.4 Kg.)

TRANSMISSION:

ALLISON



F20 SERIES

- 10-bolt clutch shift PTO
- Designed for the Ford Super Duty trucks F-250–F-600
- Features patent-pending noise abatement technolog
- Solenoid activated

MAX TORQUE

INTERMITTENT: 261 lbs.ft. (353 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 50 HP (37 kW)

APPROX. WEIGHT 29 lbs (13.2 Kg)

TRANSMISSION:

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 Fits Ford Super Duty trucks with Ford 6R140 transmission, primarily F-350-550 (may also be used on F-650/F-750)

 Noise abatement mechanism eliminates virtually all gear rattle noise MAX TORQUE
INTERMITTENT: 200 lbs.ft. (271 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 39 HP (29 kW)

APPROX. WEIGHT 35 lbs. (15.9 Kg.)

TRANSMISSION: FORD 6R140



TG SERIES

 Versatile PTO with 10 speed ratios for all popular transmissions

• Lightweight, reduced noise and superior heat dissipation

 Gear adapters available to create space and change output shaft rotation, or relocate the shaft **MAX TORQUE**

INTERMITTENT: 285 lbs.ft. (386 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 54 HP (40 kW)

APPROX. WEIGHT 22 lbs. (10.0 Kg.)

TRANSMISSIONS: AISIN, ALLISON, EATON FULLER, MACK



CS6/8 SERIES

 Designed for Allison 1000 and 2000
 Series transmissions & many current manual transmissions

• Patented, Muncie Power drag break prevents shaft rotation in "off" mode

 Direct-mount flanges with ability to rotate allow the pump to be positioned for maximum clearance MAX TORQUE

INTERMITTENT: 300 lbs.ft. (407 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 57 HP (43 kW)

APPROX. WEIGHT 47-49 lbs. (21.3-22.2 Kg.)

TRANSMISSIONS: AISIN, ALLISON, EATON FULLER, MACK



8405/6A SERIES

• 8-bolt mounting flange

 Robust design provides a rigid structure for high vibration environments **MAX TORQUE**

INTERMITTENT: 225 lbs.ft. (312 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 44 HP (33 kW)

APPROX. WEIGHT 37 lbs. (16.8 Kg.)

TRANSMISSIONS: EATON FULLER, MACK





RS6S-P89M SERIES DETROIT

 Designed to fit the Detroit DT12 transmissions in Freightliner, Paccar or Western Star Class 8 Cascadia trucks MAX TORQUE
INTERMITTENT: 317 lbs.ft. (430 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 60 HP (45 kW)

APPROX. WEIGHT 23 lbs. (10.4 Kg.)

TRANSMISSION:

DETROIT DIESEL DT-12

F SERIES



- 12 pump sizes available to fit a wide variety of applications
- Pressure-balanced bushing blocks and sleeve bearings provide long life and high performance

MAX OP. PRESSURE	3,625-2,250 PSI (250-155 BAR)
FLOW RATE (@ 1,000 RPM)*	1.07-8.70 GPM (4.0-33.0 LPM)
DISPLACEMENT	0.24-2.01 cu.in. (3.9-32.9 cc.)
APPROX. WEIGHT	7.51-10.01 lbs. (3.4-4.5 Kg.)

H SERIES



- All cast iron bushing pump designed for low to medium flow systems
- Available with integral, priority flow control capabilities; great for use on steering applications

MAX OP. PRESSURE	3,500-2,500 PSI (241-172 BAR)
FLOW RATE (@ 1,000 RPM)*	2.7-10.7 GPM (10-41.0 LPM)
DISPLACEMENT	0.62-2.48 cu.in. (10.2-40.6 cc.)
APPROX. WEIGHT	18-25 lbs. (8.3-11.3 Kg.)

K SERIES



- All cast iron construction with 4 ports and roller bearing design
- Designed to meet the application needs of either a pump or a motor

MAX OP. PRESSURE	3,000-2,500 PSI (207-172 BAR)
FLOW RATE (@ 1,000 RPM)*	4.2-17.1 GPM (15-64 LPM)
DISPLACEMENT	0.98-3.94 cu.in. (16.1-64.6 cc.)
APPROX. WEIGHT	26.5-34.1 lbs. (12.1-15.5 Kg.)

^{*}Flow rates are theoretical.

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side and rear for tight-fitting
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APPROX. WEIGHT	34-56 lbs. (15.4-25.4 Kg.)



CLUTCH PUMP MOUNTING KITS

- Available for the PF4 and PH1 Series clutch pumps
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- Provides for a quick and easy installation



V050 SERIES

- Small size, lightweight valve with versatile design configurations
- Available with 7, standard back-cap options and 5, standard control options

FLOW RATE

Nominal: 13 GPM (50 LPM) Maximum: 16 GPM (60 LPM)

MAX PRESSURE

 AX PRESSURE
 5,440 PSI (375 BAR)

 1-3 Sections:
 5,075 PSI (350 BAR)

 4-6 Sections:
 4,710 PSI (325 BAR)

MAX BACK PRESSURE 365 PSI (25 BAR)



V080 SERIES

- Constructed with high-grade iron castings and nickel-plated spools for use in high-pressure applications
- Load checks and inlet relief valve are standard

FLOW RATE

Nominal: 21 GPM (80 LPM)
Maximum: 30 GPM (114 LPM)

MAX PRESSURE

1-3 Sections: 5,075 PSI (350 BAR) 4-6 Sections: 4,650 PSI (320 BAR) 7-10 Sections: 4,350 PSI (300 BAR)

MAX BACK PRESSURE 365 PSI (25 BAR)



^{*}Flow rates are theoretical.



HYPRESS R17

•	Specification:	SAF	100R17

- Special Features/Approvals:
 ABS Approval; MSHA
 Approved Outer Cover
- Fittings: One-piece G Series

MAX WORKING PRESSURE	3,045 PSI (210 BAR) in all sizes (Isobaric hose line)
REINFORCEMENT TYPE	1 High-tensile Steel Wire Braid in sizes -04 through -08 (1/4"-1/2") 2 High-tensile Steel Wire Braids in sizes -10 through -16 (5%"-1")
OPERATING TEMPS	-40°F to +248°F (-40°C to +120°C) Continuous
AVAILABLE SIZES	-04 through -16 (1/4"-1")

HY-VACUUM R4



- Specification: SAE 100R4
- Special Features/Approvals: for use in inlet and suction applications where vacuum is present

MAX WORKING PRESSURE	58-305 PSI (4-21 BAR)
REINFORCEMENT TYPE	2 Textile Braids + 1 Steel Helical Wire
OPERATING TEMPS	-40°F to +212°F (-40°C to +100°C) Continuous
AVAILABLE SIZES	-12 through -48 (%"-3")



CABLE CONTROLS

Cable controls are available in a wide variety of options including heavy-duty push-pull cables, vernier type throttle controls, replacement power take-off cables, and remote cable/lever controls for many popular brands of directional control valves.

- Attachment kits for popular valve models, ensuring smooth action while keeping contaminates out
- Works with air, cable, or solenoid shift stack valves
- May be banked together into a common console



TITAN® MC1 SERIES

 A medium-duty, clutch shift power take-off replacing the CS24/25 and HS24 Series

 The Titan MC1 power take-off has raised the bar on the life expectancy and durability of truck-mounted PTOs **MAX TORQUE**

INTER/CONTINUOUS: 415 lbs.ft. (563 Nm)

MAX HP (@ 1,000 RPM)

INTER/CONTINUOUS: 79 HP (59 kW)

APPROX. WEIGHT 47.2 lbs. (21.4 Kg.)

TRANSMISSION: ALLISON



SH SERIES

• 6 and 8-bolt mounting flanges

• Integral air shift PTO

5 speed ratios and 17 input gear pitches

TRANSMISSIONS:

MAX TORQUE

INTERMITTENT: 400 lbs.ft. (542 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 76 HP (57 kW)

APPROX. WEIGHT 35 lbs. (15.9 Kg.)

EATON FULLER, MACK



82 SERIES

• 8-bolt mounting flange

 Cast iron housing, lever or air shift and, optional singleor dual-pump mounts

• Designed for use with high-torque mechanical equipment

MAX TORQUE

INTERMITTENT: 500 lbs.ft. (678 Nm)

MAX HP (@ 1,000 RPM)

INTERMITTENT: 95 HP (71 kW)

APPROX. WEIGHT 85 lbs. (38.6 Kg.)

TRANSMISSIONS: ALLISON, EATON FULLER, MACK





K SERIES

•	All cast iron construction
	with 4 ports and roller
	bearing design
•	Designed to meet the
	application needs of

either a pump or a motor

MAX OP. PRESSURE K Series: K Series Tandem:	3,000-2,500 PSI (207-172 BAR)
FLOW RATE (@ 1,000 RPM)* K Series: K Series Tandem:	4.2-17.1 GPM (15-64 LPM)
DISPLACEMENT K Series: K Series Tandem:	0.98-3.94 cu.in. (16.1-64.6 cc.)
APPROX. WEIGHT K Series:	26.5-34.1 lbs. (12.1-15.5 Kg.)

K Series Tandem:



PKS1 SERIES TANDEM

•	All cast	iron	construction	with
	4 norts	and	roller hearing	desian

• Designed to meet the application needs of either a pump or a motor

MAX OP. PRESSURE	3,000-2,500 PSI (207-172 BAR)
FLOW RATE (@ 1,000 RPM)*	4.2-17.1 GPM (15-64 LPM)
DISPLACEMENT	0.98-3.94 cu.in. (16.1-64.6 cc.)
APPROX. WEIGHT	26.5-34.1 lbs. (12.1-15.5 Kg.)

P SERIES



- Offers high-speed capabilities up to 2,400 RPM
- Bi-rotational operation with 4 standard sizes

MAX OP. PRESSURE	5,075 PSI (350 BAR)
FLOW RATE (@ 1,000 RPM)*	3.17-8.70 GPM (12.0-32.9 LPM)
DISPLACEMENT	0.73-2.01 cu.in. (12-33 cc.)
APPROX. WEIGHT	23.2 lbs. (10.5 Kg.)





- Offers high-operating pressures and speeds up to 1,800 RPM
- Bi-rotational operation with 5 standard sizes

MAX OP. PRESSURE	Up to 5,075 PSI (350 BAR)
FLOW RATE (@ 1,000 RPM)*	5.01-15.8 GPM (19.0-59.8 LPM)
DISPLACEMENT	1.16-3.66 cu.in. (19-60 cc.)
APPROX. WEIGHT	23.2 lbs. (10.5 Kg.)

^{*}Flow rates are theoretical.

R SERIES

- Provides high-flow capabilities with speeds up to 1,600 RPM
- Bi-rotational operation with 4 standard sizes for the R Series and 2 standard sizes for the tandem

MAX OP. PRESSURE

R Series: 4,350 PSI (300 BAR) R Series Tandem: 4,350 PSI (300 BAR)

FLOW RATE (@ 1,000 RPM)*

R Series: 18.5-26.4 GPM (70.0-99.9 LPM)
R Series Tandem: 10.8-13.4 GPM (40.9-50.7 LPM)**

DISPLACEMENT

R Series: 4.27-6.10 cu.in. (70-100 cc.) R Series Tandem: 2.50-3.11 cu.in. (41-51 cc.)

APPROX. WEIGHT

R Series: 38.6 lbs. (75 Kg.)
R Series Tandem: 39.0 lbs. (17.7 Kg.)



T SERIES

- A bent-axis piston pump with speed capabilities of up to 2,100 RPM
- Double shaft seals with 4 standard sizes

MAX OP. PRESSURE	6,525-5,075 PSI (450-350 BAR)
FLOW RATE (@ 1,000 RPM)*	12.4-28.5 GPM (46.9-107.9 LPM)
DISPLACEMENT	2.87-6.59 cu.in. (47-108 cc.)
APPROX. WEIGHT	23 1-29 8 lbs (10 5-13 5 Kg)



Z SERIES

- Pump assemblies custom built for replacement or new installation requirements
- Cast iron construction available in both roller bearing and bushing designs with a wide variety of displacements within each product family
- Industry-standard shafts and port options are available

MAX OP. PRESSURE

Roller Bearing: 3,000-2,500 PSI (207-172 BAR)
Bushing Series: 3,500-900 PSI (241-62 BAR)

FLOW RATE (@ 1,000 RPM)*

Roller Bearing: 4.3-53.2 GPM (18.3-201.4 LPM)**
Bushing Series: 2.0-39.0 GPM (7.6-147.6 LPM)**

DISPLACEMENT

Roller Bearing: 0.99-12.30 cu.in. (16.2-201.6 cc.) Bushing Series: 0.47-9.00 cu.in. (7.7-147.5 cc.)

APPROX. WEIGHT

Roller Bearing - Single: 31-92 lbs. (14.1-47.73 Kg.)
Roller Bearing - Tandem: 25-79 lbs. (13.2-35.8 Kg.)
Bushing Series - Single: 15.5-71 lbs. (7.0-32.2 Kg.)
Bushing Series - Tandem: 15.5-72 lbs. (7.0-32.7 Kg.)



Z28 Roller Bearing Design



Z40 Bushing Design



Z Series Tandem

^{*}Flow rates are theoretical. **Flow rate per outlet



V080 SERIES

- Constructed with high-grade iron castings and nickel-plated spools for use in high-pressure applications
- · Load checks and inlet relief valve are standard

FLOW RATE	
Nominal:	21 GPM (80 LPM)
Maximum:	30 GPM (114 LPM)

MAX PRESSURE

5,075 PSI (350 BAR) 1-3 Sections: 4,650 PSI (320 BAR) 4-6 Sections: 4,350 PSI (300 BAR) 7-10 Sections:

MAX BACK PRESSURE 365 PSI (25 BAR)



V130 SERIES

- Internal, oil-core design allows for higher flow rates and low pressure drops in a compact package
- Tight tolerances and precision machining keep internal, spool leakages low

FLOW RATE

Nominal: 34 GPM (130 LPM) Maximum: 55 GPM (208 LPM)

MAX PRESSURE

5,440 PSI (375 BAR) 1-3 Sections: 5,075 PSI (350 BAR) 4-6 Sections: 4,710 PSI (325 BAR) 7-10 Sections:

MAX BACK PRESSURE 365 PSI (25 BAR)



CABLE CONTROLS

Cable controls are available in a wide variety of options including heavy-duty push-pull cables, vernier type throttle controls, replacement power take-off cables, and remote cable/lever controls for many popular brands of directional control valves.

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HYPRESS R17

	MAX WORKING PRESSURE	3,045 PSI (210 BAR) in all sizes (Isobaric hose line)
 Specification: SAE 100R17 Special Features/Approvals: ABS Approval; MSHA Approved Outer Cover Fittings: One-piece G Series 	REINFORCEMENT TYPE	1 High-tensile Steel Wire Braid in sizes -04 through -08 (1/4"-1/2") 2 High-tensile Steel Wire Braids in sizes -10 through -16 (%"-1")
	OPERATING TEMPS	-40°F to +248°F (-40°C to +120°C) Continuous
	AVAILABLE SIZES	-04 through -16 (1/4"-1")



HY-VACUUM R4

 Specification: SAE 100R4 Special Features/Approvals: for use in inlet and suction applications where vacuum is present 	MAX WORKING PRESSURE	58-305 PSI (4-21 BAR)
	REINFORCEMENT TYPE	2 Textile Braids + 1 Steel Helical Wire
	OPERATING TEMPS	-40°F to +212°F (-40°C to +100°C) Continuous
	AVAILABLE SIZES	-12 through -48 (¾"-3")









With many years of combined experience, Muncie Power's team offers industry-leading customer service for its full line of products from power take-offs to hydraulic components.

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