

Hydraulic Dyna-Star® Lubrication Pumps and Modules



5:1 and 10:1, hydraulically-powered lubrication pumps designed for long life and reliable operation in demanding off-road mobile applications

Hydraulic Dyna-Star® Pumps

Field Proven, Energy Efficient

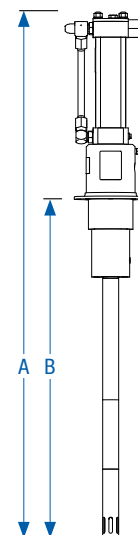
Hydraulic Dyna-Star pumps provide reliable, quiet, ice-free performance at maximum pressure and low flow rates and are up to three times more energy efficient than comparable compressed-air systems.

- Self-lubricating vertical design for long life and reliable operation in high-vibration environments
- Quiet hydraulic motor – no need for add-on mufflers
- High-efficiency motor design uses less hydraulic oil



Dyna-Star Pump Dimensions


		A	B
5:1 Pump	224912	29.75" (756 mm)	15.00" (381 mm)
	224751	41.5" (1054 mm)	26.75" (679 mm)
	224752	48.5" (1232 mm)	33.75" (857mm)
10:1 Pump	247540	33.9" (861 mm)	19.15" (502 mm)
	247443	41.5" (1054 mm)	26.75" (679 mm)
	247450	48.5" (1232 mm)	33.75" (857mm)
	25A189	41.5" (1054 mm)	26.75" (679 mm)



Dyna-Star 5:1 Pumps

	Part Number		
	224912	224751	224752
Drum Size	35 lb Pail	120 lb (55 kg)	400 lb (180 kg)
Maximum Fluid Output Pressure	7,500 PSI (517 Bar)	7,500 PSI (517 Bar)	7,500 PSI (517 Bar)
Maximum Hydraulic Input Pressure	1,500 PSI (102 Bar)	1,500 PSI (102 Bar)	1,500 PSI (102 Bar)
Maximum Hydraulic Fluid Input Volume (60 cycles/min)	3 gpm (11 lpm)	3 gpm (11 lpm)	3 gpm (11 lpm)
Maximum Flow Output Rate (60 cycles/min)	5 lb/min (2.25 kg/min)	5 lb/min (2.25 kg/min)	5 lb/min (2.25 kg/min)
Hydraulic Supply Inlet	3/8" NPT	3/8" NPT	3/8" NPT
Hydraulic Return Outlet	3/4" npt	3/4" npt	3/4" npt
Fluid Outlet	1/2" npt	1/2" npt	1/2" npt

Dyna-Star 10:1 Pumps

	Part Number			
	247540	247443	247450	25A189 
Drum Size	60 lb (27 kg)	120 lb (55 kg)	400 lb (180 kg)	120 lb (55 kg)
Maximum Fluid Output Pressure	7,500 PSI (517 Bar)	7,500 PSI (517 Bar)	7,500 PSI (517 Bar)	10,000 PSI (689 Bar)
Maximum Hydraulic Input Pressure	600 PSI (41 Bar)	600 PSI (41 Bar)	600 PSI (41 Bar)	900 PSI (62 Bar)
Maximum Hydraulic Fluid Input Volume (60 cycles/min)	3 gpm (11 lpm)	3 gpm (11 lpm)	3 gpm (11 lpm)	3 gpm (11 lpm)
Maximum Flow Output Rate (60 cycles/min)	1.1 lb/min (0.5 kg/min)	1.1 lb/min (0.5 kg/min)	1.1 lb/min (0.5 kg/min)	1.1 lb/min (0.5 kg/min)
Hydraulic Supply Inlet	3/4"-16 JIC (37° Flare)	3/4"-16 JIC (37° Flare)	3/4"-16 JIC (37° Flare)	3/4"-16 JIC (37° Flare)
Hydraulic Return Outlet	3/4" npt	3/4" npt	3/4" npt	3/4" npt
Fluid Outlet	1/2" npt	1/2" npt	1/2" npt	13/16 - 16 UNC high pressure coned and threaded connection

Hydraulic Dyna-Star Pump Modules

Heavy-Duty Performance

- Full pressure performance by safely tapping low pressure hydraulics
- Pre-packaged modules with both injector and divider valve systems
- Multiple pump and accessory options for use with refinery drum and custom tank installations

Level Indicator

Positive, at-a-glance indication of reservoir lubrication level including low-level auto shut down.

Follower Plate

Innovative design forces grease into the pump for constant operation.

Center-Feed Vent and Refill Port

Located below follower plate for trouble-free venting and refilling.



Dyna-Star Pump Modules

	Module Type					
	Series-Progressive System or Bulk Fluid Dispensing		Injector-Based System			
Module Number	247706	247707	243159	247574	247444	
Drum Size	60 lb (27 kg)	90 lb (41 kg)	90 lb (41 kg)	60 lb (27 kg)	90 lb (41 kg)	
Pump Ratio	10:1	10:1	5:1	10:1	10:1	
Module Includes	Pump Number	247540	247443	224751	247540	247443
	Reservoir Assembly	247575	241486	241486	247575	241486
	Hydraulic Control Assembly	247538	247538	243501	247538	247538
	Vent Valve Assembly	–	–	243170	243170	243170
	Fully Assembled	–	–	•	•	•
	Manual	312349	312349	309098	312349	312349

Dyna-Star Accessories

Part Number	Description
247700	Follower plate for Dyna-Star 10:1 60 lb (27 kg) and 90 lb (41 kg) pump modules
243191	Follower plate for Dyna-Star 5:1 pump module (243159)
243170	Vent valve
247538	Hydraulic control module
244023	Level indicator for 60 lb (27 kg) and 90 lb (41 kg) modules
115124	Pressure switch
247902	Pressure relief kit for 247706 and 247707
247575	Reservoir assembly – 60 lb (27 kg)
241486	Reservoir assembly – 90 lb (41 kg)

AMERICAS

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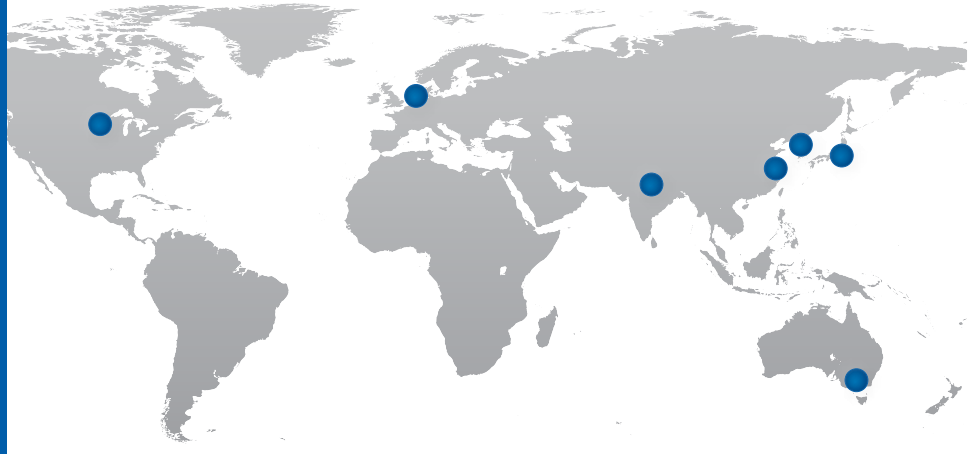
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