

True Modularity

Wide choice of standard modular components helps you meet application requirements more exactly without the added cost of a custom system. A complete Modu-Flo modular pumping package (MPP) includes a pump, a baseplate manifold, a reservoir, and a variety of optional accessories. For more details search for brochure L12000 on Graco.com.

Pneumatic Pumps

Fill Cap and Strainer

Included with every oil reservoir.

Low Level Switch

Options available for both oil and grease reservoirs.

Modular Pump Design

With options for pneumatic or hydraulic (page 78), a total of six models are available. Pneumatic pumps may have single or double action on their air motors, depending on which air solenoid is used to actuate the air motor.

High-Pressure Blowout Switch

Options for most oil and grease reservoirs; sold as a kit.

Polycarbonate (Plastic) and Metal Reservoir Options

For oil or for grease, a total of 16 options are available (see page 69).

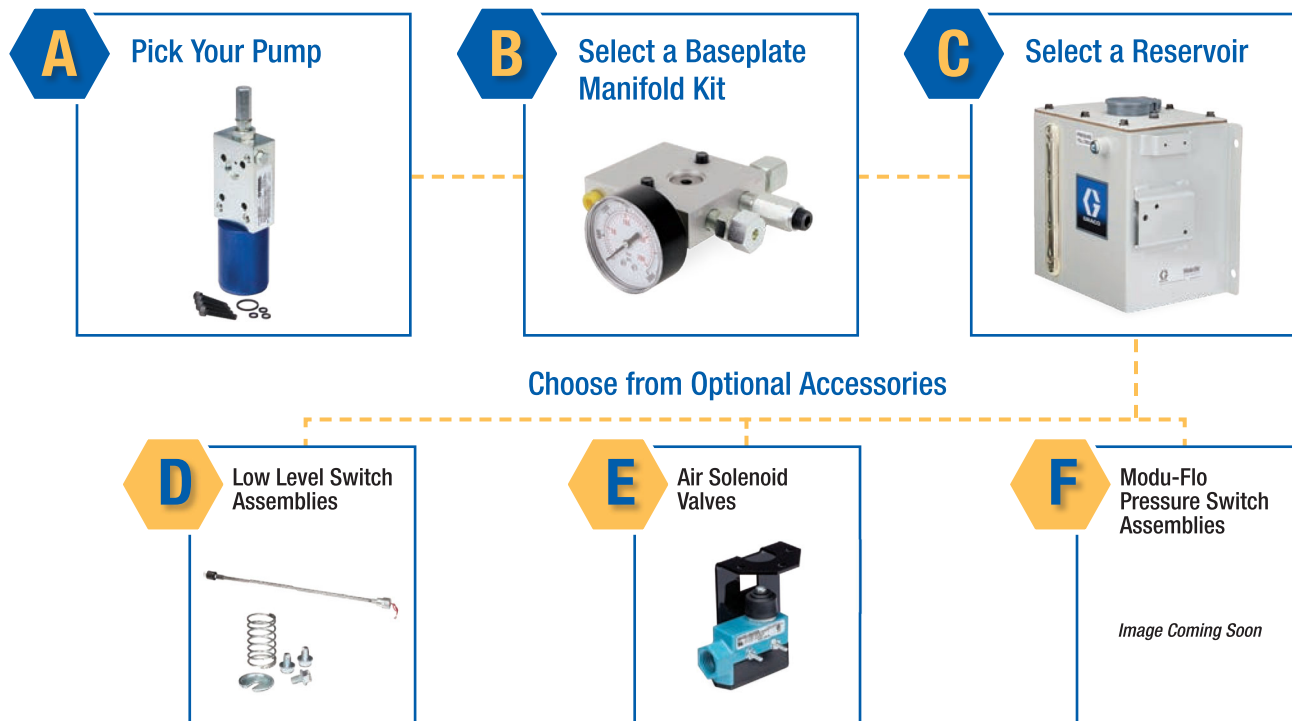
Baseplate Manifold Kit

All plumbing connects to the manifold. Option for use with NPT or BSP fittings. Flapper valve inside works with modular pump design to allow removal and replacement of pump without draining lubricant from the reservoir.

Pneumatic Pump Technical Specifications	
Output per Stroke	0.010 to 0.240 in³ (0.164 to 3.933 cm³)
Air Motor Action	Single or Double
Lube Piston Action	Single
Pump Ratio	30:1
Instruction Manual	332042


- Typical Fluids
- Oil and grease up to NLGI #2
- Typical Applications
- In-plant
 - Presses
 - Mixers

Steps to Build Your Modu-Flo System:



Ordering Information

Modu-Flo Pneumatic Pumps

	Pump Part Number	Model	Pump Output Range per Stroke in ³ (cm ³)	Air Motor Action	Maximum Cycles per Minute		Input Air Pressure Range PSI (bar)		Maximum Fluid Outlet Pressure PSI (bar)	Repair Kit Part Number
					Oil	Grease	Minimum	Maximum		
	563304	AL-5M	0.010 to 0.030 (0.164 to 0.492)	Single	30	10	40 (2.76)	150 (10.3)	3,000 (207)	563902
				Double*	60					
	563306	AL-25M	0.030 to 0.120 (0.492 to 1.966)	Single	30					563903
				Double*	60					
	563308	AL-50M	0.060 to 0.240 (0.983 to 3.933)	Single	30					563904
				Double*	60					

*Double acting air motors require a 4-way air solenoid to create the "double action." Single acting use a 3-way air solenoid and rely on spring return.

Complete your Modu-Flo pump package with a Baseplate Manifold, Reservoir and Accessories from the next page or refer to bulletin L12000. When replacing an older pump such as ALS-3A, ALJ-25C, etc., refer to the "Remote" Pump Manifold options to allow wall-mounting of the new pump instead of mounting directly to bottom of a reservoir.

A

Ordering Information

Pick Your Modu-Flo Pump



Pneumatic

See page 67



Hydraulic






See page 78

B

Ordering Information

Baseplate Manifold Kits

Note: 563324 and 563331 are the most popular kits.

	Part Number	Thread	Mount	Outlet Check Valve	System Fill Check Valve	1,450 psi Blowout Assembly	0-3,000 psi Gauge
	563329	NPSF (NPT)	Reservoir	No	No	None	None
	563324	NPSF (NPT)	Reservoir	Yes	Yes	Standard	Dry
	563331	NPSF (NPT)	Reservoir	Yes	Yes	Tubed**	Dry
	563333	NPSF (NPT)	Reservoir	Yes	Yes	Tubed**	Liquid-filled
	563336	NPSF (NPT)	Reservoir	Yes	Yes	Tubed**	None
	563323	NPSF (NPT)	Wall/Remote*	Yes	Yes	Standard	None
	563330	NPSF (NPT)	Wall/Remote*	Yes	Yes	Tubed**	None

*Manifolds are intended for gravity feed (oil) or spring loaded follower feed (grease) only; not for use with header systems. **Includes 1/8 in NPT female spud.

C

Ordering Information

Select a Reservoir

Modu-Flo reservoirs include a built-in mounting bracket, and also a Pump Mounting Pad at the bottom of the reservoir. The pump mounting pad receives the "Reservoir" mount manifolds above (as well as several other pumps). The pad also includes a port with 1/2 in NPSF female thread to receive either an NPT or NPTF male fitting and then can then be used to gravity-feed a remote pump.

Part Number	Material	Capacity*	Tube and Gasket Replacement Kit
Cylindrical Grease Reservoirs			
562911	Plastic (Poly-carbonate)	3 pound	-
562888		5 pound	562901
562905		6 pound	562909
562884		12 pound	562902
562885		20 pound	562903
564264	Metal	5 pound	564269
562906		6 pound	—
562886		12 pound	564270
562887		20 pound	564271
Cylindrical Oil Reservoirs			
562891	Plastic (Poly-carbonate)	5 pint (2.4 L)	562901
562904		6 pint (2.8 L)	562909
562889		12 pint (5.7 L)	562902
562890		20 pint (9.5 L)	562903
Rectangular Oil Tanks			
563319	Metal	12 pint (5.7 L)	563934 oil level sight glass kit
563320		24 pint (11.4 L)	
563321		40 pint (18.9 L)	

*Nominal grease reservoir size is based on a direct conversion of oil reservoir capacity and does not reflect volume loss due to the follower and spring. Actual volumes contained are:

Nominal Size	Actual Volume
3 lb	3 lb (1.5 L)
5 lb	
6 lb	
12 lb	6 lb (3 L)
20 lb	12 lb (6 L)

D

Ordering Information

Low Level Switch Assemblies

For Grease Reservoirs

3 lb	5, 6, 12 and 20 lb	Replacement Switch	Description
563272	563322	557781	SPDT switch and bracket kit installs to existing components included with grease reservoirs

For Oil Reservoirs

Cylindrical			Rectangular Metal Tanks	Replacement Switch	Description
5 and 12 Pint	20 Pint	6 Pint			
563015	563016	563014	563014	557825	"Low Watt" SPST switch assembly, used for most oils
563316	563317	563318	563318	557551	SPDT switch, older style preferred for heavy, stringy oils
—	—	—	564322	557825	Dual SPST, Low Watt Switches (One Low Level, One Shutdown)

E

Ordering Information

Air Solenoid Valves

150 PSI maximum pressure, 1/4 in NPT female inlet.

Voltage			Air Outlet	Valve Ways	Air Motor Action	Valve Mounting
24 VDC	120 VAC	240 VAC				
563332	563315	—	1/4 in NPSF male banjo	3-way	Single	Baseplate Manifold
128254	128255	128257	1/4 in NPT female	4-way	Double	Wall

F

Ordering Information

Modu-Flo Pressure Switch Assemblies

For Cylindrical Reservoirs		For Rectangular Metal Tanks	Replacement Switch	Description
5 Pint/Pound	6, 12 and 20 Pint/Pound			
563325*	563326*	563327	557781	High Pressure Blowout Switch Kit, requires approximately 3 ft of 1/4 in OD copper tubing, not included
563328*			557829	Kit includes Tee fitting for mounting to outlet port.

*Kits include yellow disks for use in oil systems. For grease systems replace the yellow disk with a red or an orange disk, depending on pressure rating of your mainline grease hose/tubing.

Spare or Replacement Blowout Disks

For pressure relief.

psi (bar)	Color Code	Part Number	
		Single	6-Pack
1,450 (99.9)	Yellow	557433	563962
1,750 (120.7)	Red	557434	563963
2,050 (141.4)	Orange	557435	563964
2,350 (162.0)	Aluminum	557436	563965
2,650 (182.6)	Pink	557437	—
2,950 (203.0)	Blue	557438	563966
3,250 (220.1)	Purple	557439	—

*Disks up to 2,350 psi have a tolerance of ± 500 psi. Disks greater than 2,350 psi have a tolerance of $\pm 20\%$.

More Spare Parts for Modu-Flo Packages

563337	Pump mounting kit, includes four mounting screws, one large O-ring and three small O-rings to connect any Modu-Flo pump to bottom of baseplate manifold. Kit is included with new pumps, sold here as a spare part.
--------	---

NPT Part Number	SAE-ORB Part Number	Description
563207	563053	Outlet Check Valve
563211	563056	System Fill Check Valve
563179	563180	Standard Blowout Assembly (1,450 psi / 100 bar)
563186	n/a	Tubed Blowout Assembly (1,450 psi / 100 bar)
557864	n/a	Standard (Dry) Pressure Gauge, 0-3,000 psi/0-210 bar dual scale, center back mount.
557866	557280	Liquid-Filled Pressure Gauge, 0-3,000 psi/0-210 bar dual scale, center back mount (557280 is PSI scale only).