

High Volume, Inexpensive Drum Dispensing

Corrosion Resistant, Hand Operated Drum Pumps

This double-action piston pump is self-priming and delivers on the forward and the back stroke. Less than five cycles yields a gallon (3.8 liters). The two position handle may be mounted either above or below the pump. The handle can be padlocked to prevent unauthorized dispensing. A built-in siphon breaker prevents unwanted flow when pumping is stopped. It will operate wet or dry without damage. Unlike ordinary metal hand pumps, it will even handle fresh or salt water. Rust is no problem here!

Generally speaking, this type of pump can be used for chemically compatible liquids at temperatures up to 80° F (26° C) and having maximum viscosity of 2,000 SSU. Model series 26 and 27 are generally useful with compatible liquids in a mild acidity/alkalinity range of pH4-9. Avoid acids and caustics with #26 and #27 series. Model 28 pumps are useful in a wider pH range.

Please note: Chemical compatibilty should be checked for each liquid by chemical name. See chart below for general guide.

The chart includes a short list of typical liquids for each pump. Other liquids may be compatible. The chart shows what materials are used to make each pump so that you may check compatibility with other chemicals. Beware that many chemicals can exist in various degrees of concentration. For example, acids.† Some liquids, such as cleaning solutions, detergents, or soaps seem to be "mild" when diluted for use, but can be very caustic or acidic in the drums before dilution.



Quality engineered thermoplastic construction with specific elastomer parts for chemical resistance.

Drum Pumps Ship Complete

Morse Hand Operated Drum Pumps come complete with 8' (2.4 m) discharge hose with nozzle, suction tube and coupler with extension to reach the bottom of a 55-gallon (210 liter) drum, 2" (NPT) bung adaptor, and Operator's Manual and parts List.

- Double-action piston pump delivers on forward and on back strokes
- Pump a gallon in fewer than 5 cycles
 - Self priming with built-in siphon breaker
- Accept a padlock



Use Drum Pump with drum on model 125 No-Spill Drum Truck

Carries drums upright. Hinged handle makes it simple to move and steer. 8" polyolefin wheels and swivel caster. Capacity 1200 Lb. Shipped in sturdy carton suitable for UPS.

IMPORTANT: When pumping flammable or combustible liquids from one container to another, both containers must be effectively bonded and grounded to prevent discharge of sparks or static electricity which could cause explosion and bodily harm.

* GENERAL GUIDE										
Model#	Construction (All have some T316SS)	O-Ring Material			Compatible Liquids* (General Guide)					
26	polyester	viton	cork-nitrile	PVC	polyester	petroleum products, lube oils, (NOT Gasoline)*				
27-1AE	polyester	EPDM	EPDM	EPDM	polyester	methyl alcohol, ethyl alcohol*				
27-4AV	polyester	viton	viton	cross linked polyethylene	polyester	some napthas*, somearomatics*				
28-5BV	ryton	viton	viton	cross linked polyethylene	teflon	some chlorinated solvents, acids, aromatics, xylene*				
28-6BE	ryton	EPDM	EPDM	EPDM	teflon	some acids, caustics, ketones, acetates*				

Buttress Thread Adapters						
P-58-0031P	Buttress Thread Adapter for use with Morse 26 and 27 Series Drum Pumps					
P-58-0031R	Buttress Thread Adapter for use with Morse 28 Series Drum Pumps					

* NOTE: GENERAL GUIDE ONLY

Final determination of suitability for use intended or manner of use is responsibility of the user. Consult Morse for advice on specific liquids if they are not shown here. Please furnish chemical names.

** IMPORTANT: Chemicals May Be Hazardous

It is the user's responsibility to take appropriate safety and protective measures. Specifications subject to change without notice.



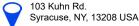
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Morse 26, 27 and 28 series drum hand pumps

Morse drum pumps differ in their materials of construction. They are constructed using specific polymers and elastomers for resistance to certain

types of chemicals.

Use with:

- Chemically compatible liquids up to 80° F (26° C)
- Viscosity not exceeding 2,000 SSU (about as thick as 30 weight motor oil at room temperature). Handle effort increases
 as viscosity approaches this maximum.
- 27 Series and Model 26 are generally useful with compatible liquids in a mild acidity/alkalinity range of pH 4-9. Avoid stronger acids and caustics.
- 28 Series are useful in a wider pH range.
- Many other chemical characteristics effect choice of pumps

CAUTION: Chemical compatibility of a pump should be CHECKED FOR EACH LIQUID BY CHEMICAL NAME

- No single pump can be universally chemical resistant
- · Some blends of chemicals may not be suitable for any of these pumps
- Several different models may be necessary for drums of various liquids
- · General guide only. Final determination of suitability for use intended or manner of use is responsibility of the user.
- · Chemicals may be hazardous. It is the user's responsibility to take appropriate safety and protective measures.

IMPORTANT: When pumping flammable or combustible liquids from one container to another, both containers must be effectively bonded and grounded to prevent discharge of sparks or static electricity which could cause explosion and bodily harm.

See pages 3-7 for recommended pump model(s) for each specific chemical

* GENERAL GUIDE to Morse Drum Hand Pump Applications										
Pump Model #	Construction (All have some T316SS)	O-Ring Mtl.	Gasket Mtl.	Hose Mtl. Suction Compatible Liquids* Tube (General Guide)						
26	polyester	viton	cork-nitrile	PVC	polyester	petroleum products, lube oils, (NOT Gasoline)*				
27-1AE	polyester	EPDM	EPDM	EPDM	polyester	methyl alcohol, ethyl alcohol*				
27-4AV	polyester	viton	viton	cross linked polyeth.	polyester	some napthas*, some aromatics*				
28-5BV	ryton	viton	viton	cross linked polyeth.	teflon	some chlorinated solvents, some acids, aromatics, xylene*				
28-6BE	ryton	EPDM	EPDM	EPDM	teflon	some acids, caustics, ketones, acetates*				

^{*} NOTE: GENERAL GUIDE ONLY. Final determination of suitability for use intended or manner of use is responsibility of the user. Consult Morse for advice on specific liquids if they are not shown here. Please furnish chemical names.

^{**} NOTE: Chemicals May Be Hazardous. It is the user's responsibility to take appropriate safety and protective measures. Specifications subject to change without notice.





Recommended Pump Model Number(s)								
Chemical	26	27-1AE	27-4AV	28-5BV	28-6BE			
Acetaldehyde	_	yes	-	-	yes			
Acetic acid, 20%	_	yes	_	_	yes			
Acetic acid, 50%	_	-	_	_	yes			
Acetic acid, glacial	_	-	_	_	yes			
Acetic anhydride	_	_	_	_	yes			
Acetone	_	-	_	_	-			
Aluminum chloride	_	-	-	yes	yes			
Aluminum flouride	_	_	_	yes	yes			
Aluminum sulfate	yes	yes	yes	yes	yes			
Ammonia. 30% (cold)	-	-	-	-	yes			
Ammonium chloride	yes	yes	yes	yes	yes			
Ammonium nitrate	-	yes	-	-	yes			
Ammonium persulfate	yes	yes	yes	_	-			
Ammonium phosphate	yes	yes	yes	yes	yes			
Ammonium sulfate	- ycs	yes	y 03	y 03	-			
Amyl acetate	-	yes	-	_	yes yes			
Amyl alcohol	yes	yes	yes	yes	yes			
Amyl chloride	- ycs	- ycs	- ycs	yes	y 0.3			
Aniline	_	-	_	y 0 3	Vec			
Aqua regia	_			-	yes			
Arsenic acid	_	-	-		Voc			
Atrazine	-		-	yes	yes			
Barium chloride	-	yes	-	-	-			
Barium sulfate	yes	yes	yes	yes	yes			
Beer	yes	yes	yes	yes	yes			
	yes	yes	yes	yes	yes			
Benzaldehyde	-	yes	-	-	-			
Benzine (benzol)	-	-	yes	yes	-			
Benzoic acid	-	-	yes	yes	-			
Bicep	-	yes	-	-	-			
Bladex	-	yes	-	-	-			
Borax (sodium borate)	yes	yes	yes	yes	yes			
Boric acid	yes	yes	yes	yes	yes			
Bromine water	-	-	-	-	-			
Bronco	-	yes	-	-	-			
Bullet	-	yes	-	-	-			
Butyl acetate	-	-	-	-	yes			
Butyric acid	-	-	-	yes	yes			
Calcium bisulfate	-	-	-	yes	-			
Calcium chloride	yes	yes	yes	yes	yes			
Calcium hypochrorite, 20%	yes	yes	yes	yes	yes			
Calcium sulfate	yes	yes	yes	yes	yes			
Carbon tetrachloride	yes	-	yes	yes	-			
Carbonic acid	-	-	-	yes	yes			
Chloroacetic acid	-	-	-	-	yes			





Recommended Pump Model Number(s)								
Chemical	26	27-1AE	27-4AV	28-5BV	28-6BE			
Chlorine water	-	-	-	-	-			
Chlorobenzine	-	-	-	yes	-			
Chloroform (wet)	-	yes	yes	yes	-			
Chlorosulfonic acid	-	-	-	-	-			
Chromic acid, 10%	-	-	-	yes	-			
Chromic acid, 50%	-	-	-	yes	-			
Chromic acid, 80%	-	-	-	-	-			
Citric acid	yes	yes	yes	yes	yes			
Copper chloride	-	-	-	yes	yes			
Copper cyanide	-	-	-	yes	yes			
Copper nitrate	yes	yes	yes	yes	-			
Copper sulfate	yes	yes	yes	yes	yes			
Cresylic acid, 50%	yes	yes	yes	-	-			
Dual	-	yes	-	-	-			
Ethyl acetate	-	yes	-	-	yes			
Ethyl alcohol (Ethanol)	yes	yes	yes	yes	yes			
Ethyl chloride	-	-	-	yes	yes			
Ethylene glycol	yes	yes	yes	yes	yes			
Extrazine	-	yes	-	-	-			
Fallowmaster	-	yes	-	-	-			
Fatty acids	yes	-	yes	-	-			
Ferric chloride	-	-	-	yes	yes			
Ferric nitrate	yes	yes	yes	yes	yes			
Ferric sulfate	-	-	-	-	-			
Ferrous chloride	yes	yes	yes	yes	yes			
Ferrous sulfate	-	yes	yes	yes	yes			
Fluoroboric acid, 30-40%	yes	yes	yes	yes	yes			
Fluosilicic acid, 20%	-	-	-	yes	yes			
Formaldehyde, 40%	yes	yes	yes	yes	yes			
Formic acid	-	-	-	yes	yes			
Freon 12 (wet)	yes	yes	yes	yes	yes			
Fuel oils	yes	-	yes	yes	-			
Furfural	-	yes	-	-	yes			
Gasoline	-	-	-	-	-			
Glycerine (glycerol)	yes	yes	yes	yes	yes			
Heptane	yes	-	yes	yes	-			
Hexane	yes	-	yes	yes	-			
Honcho	-	yes	-	-	-			
Hydrobromic acid, 40%	-	-	-	yes	yes			
Hydrochloric acid, 0-20%	yes	yes	yes	yes	yes			
Hydrochloric acid, 40%	-	-	-	-	-			
Hydrocyanic acid	yes	yes	yes	-	-			
Hydroflouric acid, 10%	-	-	-	-	-			
Hydroflouric acid, 30%	-	-	-	-	-			





Recommended Pump Model Number(s)							
Chemical	26	27-1AE	27-4AV	28-5BV	28-6BE		
Hydroflouric acid, 50%	-	-	-	-	-		
Hydrofluosilicic acid, 20%	_	-	_	yes	yes		
Hydrogen peroxide, 30%	_	_	_	yes	yes		
Hydrogen peroxide, 50%	-	-	_	-	-		
Hydrogen peroxide, 90%	_	_	_	_	_		
Hydrogen sulfide (Aq. sol.)	-	yes	_	_	yes		
lodine (in alcohol)	_	-	_	_	-		
Ispropyl alcohol	-	-	-	yes	yes		
Kerosene	yes	_	yes	yes	-		
Ketones	-	yes	-	-	yes		
Lacquer thinners	_	-	_	_	-		
Lactic acid	yes	yes	yes	yes	yes		
Lannate	- 700	yes	, you	-	, yes		
Lasso	_	yes	_	_	_		
Lead acetate	-	yes	_	-	yes		
Lubricating oil	yes	- yes	yes	yes	yc3		
Magnesium chloride	yes	yes	yes	yes	yes		
Magnesium nitrate		•	-	-			
Magnesium sulfate	yes	yes	yes	yes	yes		
Maleic acid	yes	yes	yes	yes	yes		
	-	-	yes	-	-		
Methyl alcohol (methanol)	-	yes	-	-	yes		
Methyl chloride	-	-	-	yes	-		
Methyl ethyl ketone	-	yes	-	-	yes		
Methyl isobutyl ketone	-	-	-	-	-		
Methylene chloride	-	-	-	-	-		
Modown	-	yes	-	-	-		
N-Serve 24	-	yes	-	-	-		
Naptha	yes	-	yes	yes	-		
Napthalene	-	-	-	yes	yes		
Nickel chloride	-	-	-	yes	yes		
Nickel sulfate	yes	yes	yes	yes	yes		
Nitric acid, 10%	-	yes	yes	yes	yes		
Nitric acid, 20%	-	-	-	yes	yes		
Nitric acid, 40%	-	-	-	-	-		
Nitric acid, anhydrous	-	-	-	-	-		
Nitrobenzene	-	-	-	-	-		
Oil and fats	yes	-	yes	yes	-		
Oleic acid	yes	-	yes	yes	-		
Oleum	-	-	-	yes	-		
Oxalic acid	-	-	-	yes	yes		
Pathway	-	yes	-	-	-		
Phenol	-	-	-	yes	-		
Phosphoric acid, 0-80%	yes	yes	yes	yes	yes		
Phosphoric acid, 80-100%	-	yes	yes	yes	yes		





Recommended Pump Model Number(s)								
Chemical	26	27-1AE	27-4AV	28-5BV	28-6BE			
Potassium bicarbinate	yes	-	yes	-	-			
Potassium bromide	yes	-	yes	yes	-			
Potassium carbonate	yes	yes	yes	yes	yes			
Potassium chlorate	yes	yes	yes	yes	yes			
Potassium chloride	yes	yes	yes	yes	yes			
Potassium cyanide	yes	yes	yes	yes	yes			
Potassium dichromate	-	-	-	yes	yes			
Potassium hydroxide	-	-	-	-	yes			
Potassium nitrate	yes	yes	yes	yes	yes			
Potassium permanganate	-	-	-	yes	-			
Potassium sulfate	yes	yes	yes	yes	yes			
Propyl alcohol	yes	yes	yes	yes	yes			
Ranger	-	yes	-	-	-			
Roundup	-	yes	-	-	-			
Sevin 4 oil	-	yes	-	-	-			
Soaps (neutral)	yes	yes	yes	yes	yes			
Sodium acetate	-	yes	-	-	yes			
Sodium bicarbonate	yes	yes	yes	yes	yes			
Sodium bisulfate	yes	yes	yes	yes	yes			
Sodium bisulfite	yes	yes	yes	-	-			
Sodium carbonate, 10%	yes	yes	yes	yes	yes			
Sodium chlorate	yes	yes	yes	yes	yes			
Sodium chloride	yes	yes	yes	yes	yes			
Sodium cyanide	yes	yes	yes	yes	yes			
Sodium hydroxide, 20%	-	-	-	-	yes			
Sodium hydroxide, 50%	-	-	-	-	yes			
Sodium hypochlorite	-	-	-	yes	yes			
Sodium nitrate	yes	yes	yes	yes	yes			
Sodium silicate	yes	yes	yes	yes	yes			
Sodium sulfate	yes	yes	yes	yes	yes			
Sodium sulfide	-	yes	yes	yes	yes			
Stannic chloride	-	-	-	yes	yes			
Stearic acid	yes	yes	yes	-	-			
Stoddards solvent	-	-	yes	yes	-			
Sulfuric acid, 0-30%	yes	yes	yes	-	yes			
Sulfuric acid, 30-95%	-	-	-	-	-			
Tannic acid	-	-	-	yes	yes			
Tanning liquors	-	-	-	-	-			
Tartaric acid	-	yes	yes	yes	yes			
Tetrahydrofuran	-	yes	-	-	yes			
Toluene (toluol)	-	-	-	yes	-			
Trichloroethylene	-	-	-	yes	-			
Tricresylphosphate	-	-	-	-	-			
Turpentine	yes	-	yes	yes	-			



Recommended Pump Model Number(s)									
Chemical	26	27-1AE	27-4AV	28-5BV	28-6BE				
Urea	-	-	-	yes	yes				
Vinegar	-	yes	•	-	yes				
White liquor (acid)	-	-	-	-	-				
Xylene (xylol)	-	-	-	yes	-				
Zinc chloride	yes	yes	yes	yes	yes				
Zinc sulfate	yes	yes	yes	yes	yes				