

High Volume, Inexpensive Drum Dispensing

Corrosion Resistant, Hand Operated Drum Pumps

This double-action piston pump is selfpriming 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.

MADE

IN

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Please note: Chemical compatibility 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	Gasket Material	8 Foot (2.4 m) Suction Discharge Hose Material Tube		Compatible Liquids* (General Guide)						
26	polyester	viton	cork-nitrile	PVC	polyester	petroleum products, lube oils*						
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.

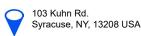
** IMPORTANT: Chemicals May Be Hazardous

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										
Construction (All have some T316SS)	O-Ring Mtl.	Gasket Mtl.	Hose Mtl.	Suction Tube	Compatible Liquids* (General Guide)					
polyester	viton	cork-nitrile	PVC	polyester	petroleum products, lube oils*					
polyester	EPDM	EPDM	EPDM	polyester	methyl alcohol, ethyl alcohol*					
polyester	viton	viton	cross linked polyeth.	polyester	some napthas*, some aromatics*					
ryton	viton	viton	cross linked polyeth.	teflon	some chlorinated solvents, some acids, aromatics, xylene*					
ryton	EPDM	EPDM	EPDM	teflon	some acids, caustics, ketones, acetates*					
	Construction (All have some T316SS) polyester polyester polyester ryton	Construction (All have some T316SS)O-Ring Mtl.polyestervitonpolyesterEPDMpolyestervitonpolyesterviton	Construction (All have some T316SS)O-Ring Mtl.Gasket Mtl.polyestervitoncork-nitrilepolyesterEPDMEPDMpolyestervitonvitonpolyestervitonviton	Construction (All have some T316SS)O-Ring Mtl.Gasket Mtl.Hose Mtl.polyestervitoncork-nitrilePVCpolyesterEPDMEPDMEPDMpolyestervitonvitoncross linked polyeth.rytonvitonvitoncross linked polyeth.	Construction (All have some T316SS)O-Ring Mtl.Gasket Mtl.Hose Mtl.Suction Tubepolyestervitoncork-nitrilePVCpolyesterpolyesterEPDMEPDMEPDMpolyesterpolyestervitonvitoncross linked polyeth.polyesterrytonvitonvitoncross linked polyeth.teflon					

* **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.

The Specialist In Drum Handling Equipment

Drum Pumps

Recommended Pump Model Number(s)									
	Chemical 26 27-1AE 27-4AV 28-5BV 28-6B								
Acetaldehyde	-	yes		20-021	yes				
Acetic acid, 20%	-	yes	-		yes				
Acetic acid, 50%	-	-	-	_	yes				
Acetic acid, glacial	-				yes				
Acetic anhydride					yes				
Acetone	-			-	-				
Aluminum chloride	-	-	-						
Aluminum flouride	-	-	-	yes	yes				
Aluminum sulfate		-	-	yes	yes				
Ammonia. 30% (cold)	yes -	yes	yes	yes -	yes				
Ammonia: 30% (cold)					yes				
Ammonium nitrate	yes	yes	yes	yes	yes				
	-	yes	-	-	yes				
Ammonium persulfate	yes	yes	yes	-	-				
Ammonium phosphate	yes	yes	yes	yes	yes				
Ammonium sulfate	-	yes	-	-	yes				
Amyl acetate	-	yes	-	-	yes				
Amyl alcohol	yes	yes	yes	yes	yes				
Amyl chloride	-	-	-	yes	-				
Aniline	-	-	-	-	yes				
Aqua regia	-	-	-	-	-				
Arsenic acid	-	-	-	yes	yes				
Atrazine	-	yes	-	-	-				
Barium chloride	yes	yes	yes	yes	yes				
Barium sulfate	yes	yes	yes	yes	yes				
Beer	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	-				
	-	-	-	yes	yes				
			-	-	-				
Carbonic acid Chloroacetic acid	-	-	-	yes -	yes yes				

The Specialist In Drum Handling Equipment

Drum Pumps

Recommended Pump Model Number(s)									
Chemical 26 27-1AE 27-4AV 28-5BV 28-6BE									
Chlorine water	-			20 000	-				
Chlorobenzine		-	_	yes	-				
Chloroform (wet)	-	yes	yes	yes	-				
Chlorosulfonic acid		-	y03	y03					
Chromic acid, 10%		_		yes	_				
Chromic acid, 50%				-					
Chromic acid, 80%	-	-	-	yes	-				
Citric acid	-	-	-	-	-				
Copper chloride	yes	yes	yes	yes	yes				
				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				
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%	-	-	-	-	-				
Hydroflouric acid, 50%	-	-	-	-	-				
,									



Recommended Pump Model Number(s)								
Chemical 26 27-1AE 27-4AV 28-5BV 28-6BE								
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)	-	-	_	_	yes			
Ispropyl alcohol		-	_		-			
Kerosene	-	-	-	yes	yes			
Ketones	yes		yes	yes	-			
		yes	-		yes			
Lacquer thinners	-		-	-	-			
Lactic acid	yes	yes	yes	yes	yes			
Lannate	-	yes	-	-	-			
Lasso	-	yes	-	-	-			
Lead acetate	-	yes	-	-	yes			
Lubricating oil	yes	-	yes	yes	-			
Magnesium chloride	yes	yes	yes	yes	yes			
Magnesium nitrate	yes	yes	yes	yes	yes			
Magnesium sulfate	yes	yes	yes	yes	yes			
Maleic acid	-	-	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	-	-	_		-			
Phosphoric acid, 0-80%			Vec	yes				
	yes	yes	yes	yes	yes			
Phosphoric acid, 80-100%	-	yes	yes	yes	yes			
Potassium bicarbinate	yes	-	yes	-	-			

The Specialist In Drum Handling Equipment

Drum Pumps

	1	Pump Model			
Chemical	26	27-1AE	27-4AV	28-5BV	28-6BB
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	ycs	yes	-	-	-
Stannic chloride		yc3	yes	yes yes	yes yes
Stearic acid	-	-	-	-	-
Stoddards solvent	yes	yes -	yes	-	-
			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			
Vinegar	-	yes	-	-	yes			
White liquor (acid)	-	-	-	-	-			
Xylene (xylol)	-	-	-	yes	-			
Zinc chloride	yes	yes	yes	yes	yes			
Zinc sulfate	yes	yes	yes	yes	yes			