



**ADVANCED FLUID  
MANAGEMENT SOLUTIONS**

# CATALOG No. 507

**INNOVATIVE, EFFICIENT, RELIABLE**









**ADVANCED FLUID  
MANAGEMENT SOLUTIONS**



DESIGN IS AN

*Art*





founded in 1975





*the human side  
of Quality*







With over 40 years of experience, RAASM understands why innovation is the key to overcoming any future market challenge. RAASM is continuously investing in the original ideas generated by its team of talented and dedicated professionals. The results are high quality, leading edge solutions.





WORLD CLASS R&D DEPARTMENT  
STATE OF THE ART MANUFACTURING FACILITY  
ADVANCED NEW PRODUCT DEVELOPMENT



INNOVATIVE





MODULA

MODULA



SYSTEM  
LOGISTICS

SYSTEM  
LOGISTICS

RAASM

52



# EFFICIENT



RAASM's production chain is made of highly trained and experienced professionals. We believe team training and regular internal communication add value to the final product, resulting in high quality, longer lasting products and improved customer service.

SKILLED MANUFACTURING

EFFICIENT SOLUTIONS

HIGH PERFORMING  
PRODUCTS





For over 40 years we have assured that every phase of research and development, production, delivery, and after sales service meet or exceed customer expectations. Worldwide confidence in RAASM products, allows us to offer some of the best product warranties in the market.





# RELIABLE



QUALITY IS OUR TOP PRIORITY  
BACKED BY OUR WORLD-CLASS WARRANTY  
STRONG PRODUCT SUPPORT







# [www.raasmusa.com](http://www.raasmusa.com)

## **Our Mission:**

We are committed to satisfy our customers' needs with innovative and reliable products. Our commitment is supported by an organizational culture that encourages innovation and attention to details and by our continuous effort to maintain the leading Research & Development Department in the industry.

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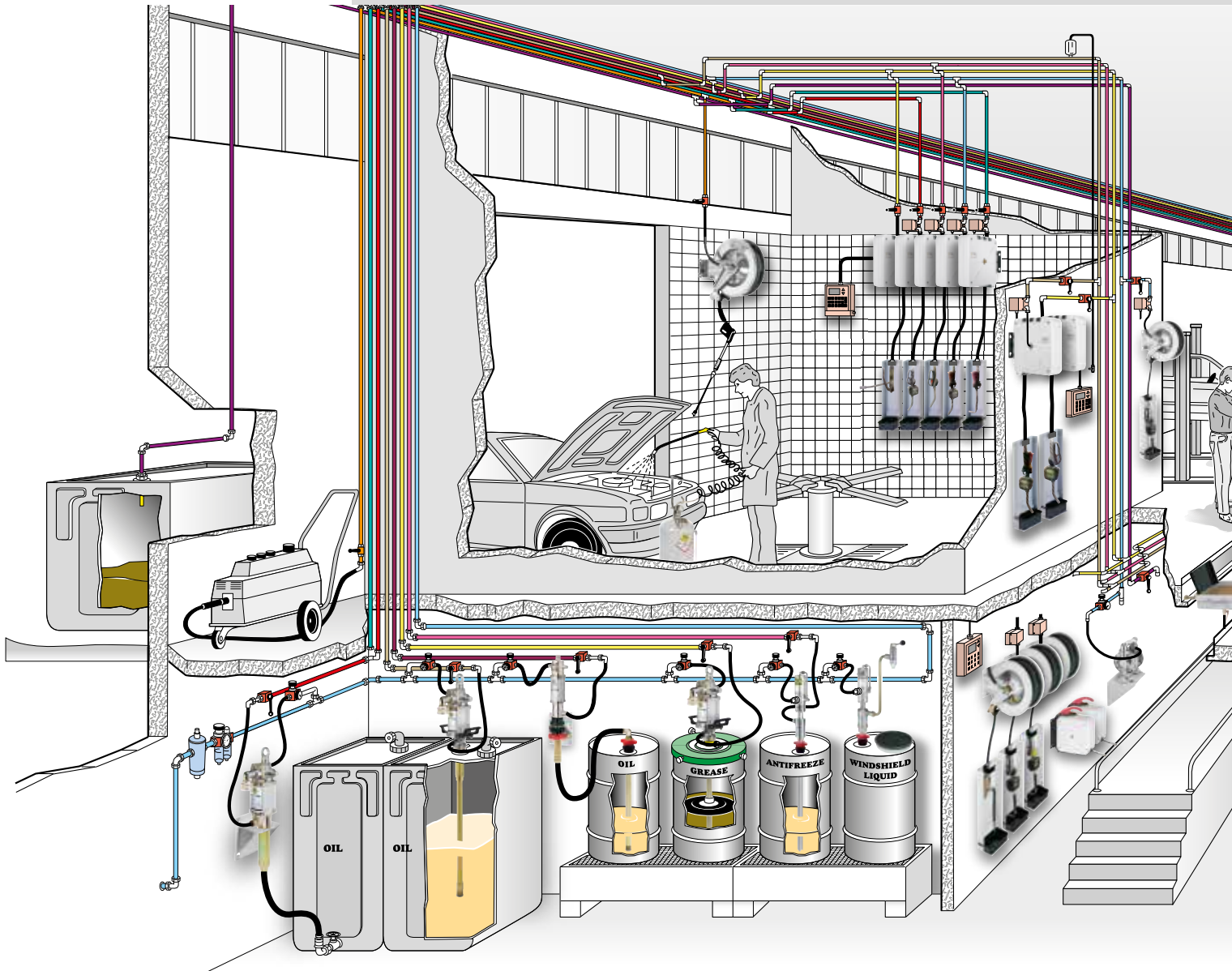


## 6 Dollies

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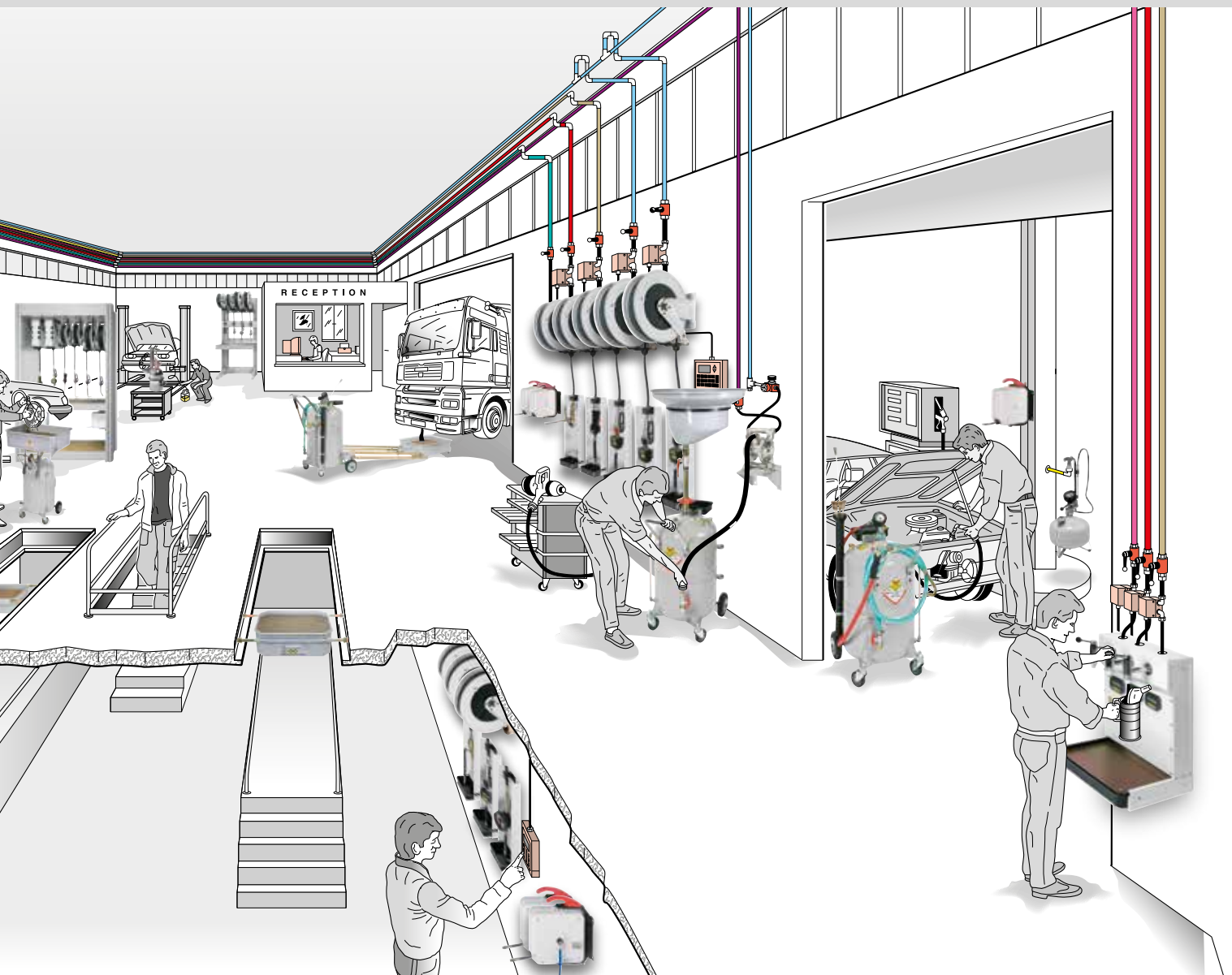
## EXAMPLE OF INSTALLATIONS



FLUID CONTROL SYSTEM INFORMATION  
AVAILABLE IN SEPARATE BROCHURE OR WEBSITE



**CAUTION:** Pressure tolerances for tubing/piping may vary according to the fluid pumped and to the pump pressure ratio.  
 Verify actual output pressure of actual pump selected before finalizing distribution lines.  
 For example the output pressure of 5:1 pump fueled by 120 psi air pressure is 5 x 120 or 600 psi.



<b>SUGGESTED MINIMUM INSIDE DIAMETERS FOR THE FLUID MAIN DISTRIBUTION LINES</b>				
<b>Length</b>	<b>Oil main line</b>	<b>Grease main line</b>	<b>Gear Oil main line</b>	<b>Air and Water main line</b>
<b>0 - 50'</b>	ø 3/4"	-	ø 1"	-
<b>0 - 100'</b>	-	-	-	ø 1"
<b>0 - 650'</b>	-	ø 1/2"	-	-
<b>50' - 165'</b>	ø 1"	-	ø 1-1/2"	-
<b>165' - 300'</b>	ø 1-1/4"	-	-	-
<b>165' - 850'</b>	-	-	ø 2"	-
<b>100' - 950'</b>	-	-	-	ø 1-1/2"
<b>300' - 650'</b>	ø 1-1/2"	-	-	-
<b>Discharge</b>	ø 3/4"	ø 3/8"	ø 3/4"	ø 3/4"

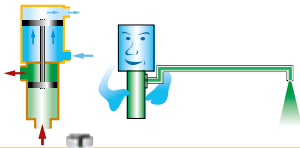


# OIL PUMPS





# INDEX



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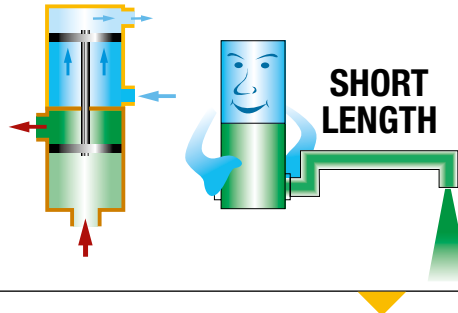
# CHOOSING THE RIGHT PUMP

RAASM manufactures a wide range of pumps that are among the leaders in the market. Innovative design combined with high quality materials guarantee high returns of capacity and pressure.

The max flow rate declared for each pump of this catalog is a free flow, i.e. with just 2' or 3' dispensing hose without any restriction.

1

- Pumps with Ratio 1:1
- Have low head (power) but high capacity
- Transfers of low/medium-viscosity fluids



When choosing a pump, it is important to take into consideration the following basic elements:

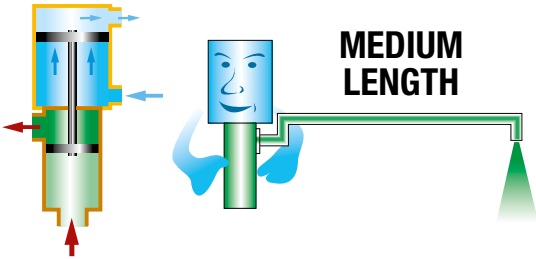
Type of fluid and its viscosity	Relative capacity to be delivered	
Distance between pump and point of use	Pressure of fluid for type of use	

Series	Compression ratio	Capacity	1/2" through 2" 1:1 15.8 through 161 gpm	238 S/Steel 1:1 8 gpm	200 1:1 9.25 gpm	238 1:1 6 gpm
MO	Low and medium viscosity fluids: various low viscosity oils (SAE 15/20), hydraulic fluid and ATF		for distances < 50'	-	for distances < 50'	for distances < 50'
HO	High viscosity fluids: motor oil, gearbox oil (SAE 240)		-	-	-	-
DE	DEF (Diesel Exhaust Fluid)		for distances < 200' (only PP version with PTFE or EPDM membranes)	for distances < 150'	-	-
GR	Medium and low viscosity greases		-	-	-	-
AD	Antifreeze, diesel fuel		for distances < 150'	for distances < 150'	for distances < 150'	for distances < 150'
WF	Windshield fluid		for distances < 150'	for distances 150'-300'	-	-
WO	Waste oil		for distances < 150'	for distances < 150' (with inlet filter)	for distances < 150' (with inlet filter)	for distances < 150' (with inlet filter)



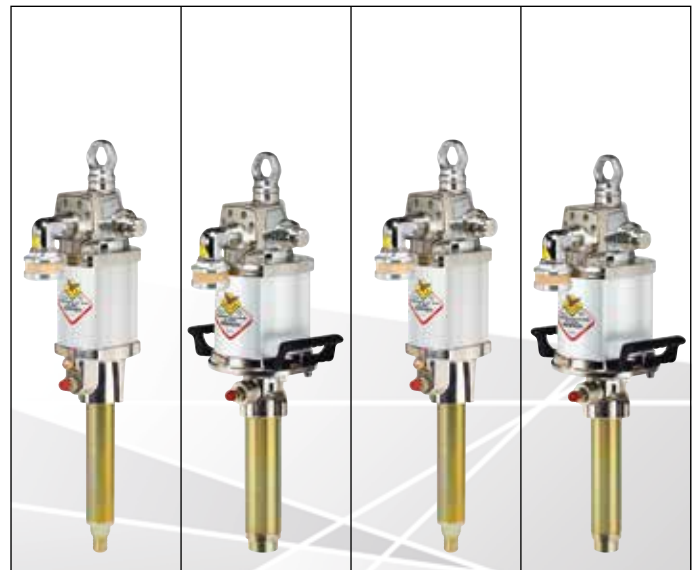
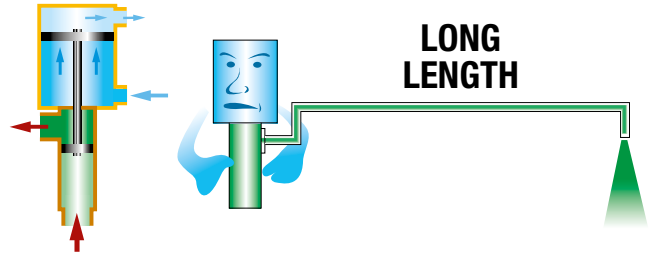
**2**

- Pumps with Ratio 3:1 - 5:1
- Have medium head (power) and medium capacity
- Dispensing of medium/high-viscosity fluids



**3**

- Pumps with Ratio 7:1 - 9:1 - 11:1 - 12:1 - 18:1
- Have high head (power) and medium capacity
- Dispensing of medium/high-viscosity fluids



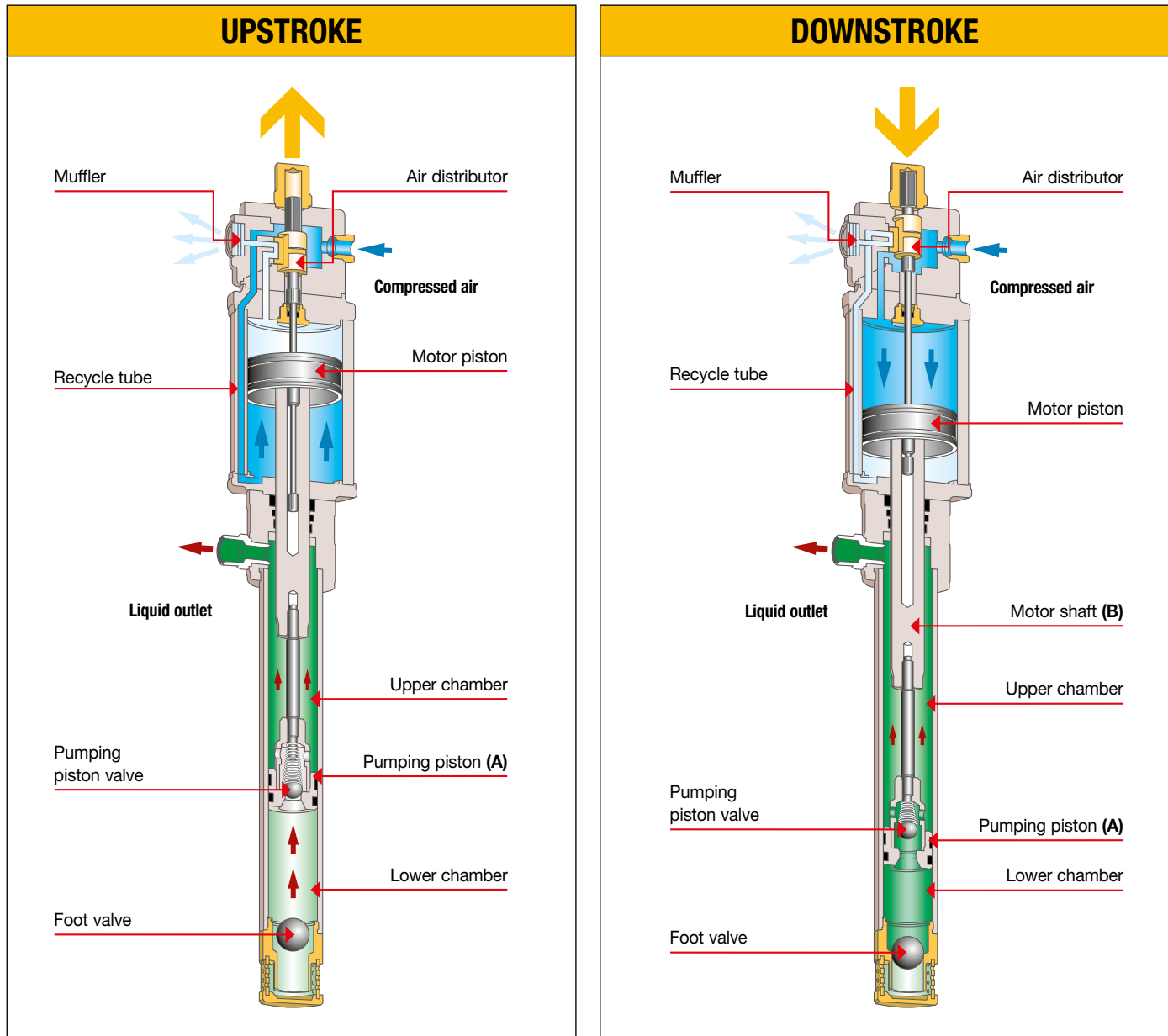
200 3:1 5.30 gpm	238 3:1 4.40 gpm	238 5:1 5.50 gpm	312 5:1 12 gpm
for distances 150'-300'	for distances 150'-300'	for distances 300'-600'	for distances 300'-600'
-	-	for distances 150'-300'	for distances 150'-300'
-	-	-	-
-	-	-	-
for distances 150'-328'	-	-	-
-	-	-	-
for distances < 150' (with inlet filter)	-	-	-

312 7:1 8 gpm	412 9:1 12 gpm	312 11:1 8 gpm	412 12:1 - 18:1 6 - 8 gpm
for distances < 600'	for distances < 600'	for distances < 600'	for distances < 600'
for distances 300'-600'	for distances < 600'	for distances < 600'	for distances < 600'
-	-	-	-
-	-	for distances < 50'	-
-	-	-	-
-	-	-	-
-	-	-	-

# TECHNICAL DATA

There are many technical solutions for obtaining a reciprocating double-acting pump. The double-action of RAASM pumps is obtained with solutions that have simplified the pump mechanism itself, ensuring that delivery of the fluid in both alternating movements (upstroke and downstroke) of the pump occurs only through the difference in volume between the diameters of the pumping piston (A) and the pump shaft (B).

On the upstroke, delivery is caused by the pumping piston (A).  
On the downstroke it is caused by the difference in volume between the diameter of the motor shaft (B) and the diameter of the pumping piston (A).



## LESS WEAR AND GREATER RELIABILITY

In addition to guaranteeing regular delivery of the fluid, this solution offers the advantage of fewer components to the pump. This means less wear and a very reliable pump.



# DISTRIBUTION SYSTEMS

The tubing used for transferring the fluids should be specific for high pressure, as specified on page 13, and must be smooth to avoid any friction with fluid. Connections should have an inside diameter greater than the inside diameter of the tube to avoid any constrictions.

## CHARACTERISTICS OF TUBES FOR MAIN LINES

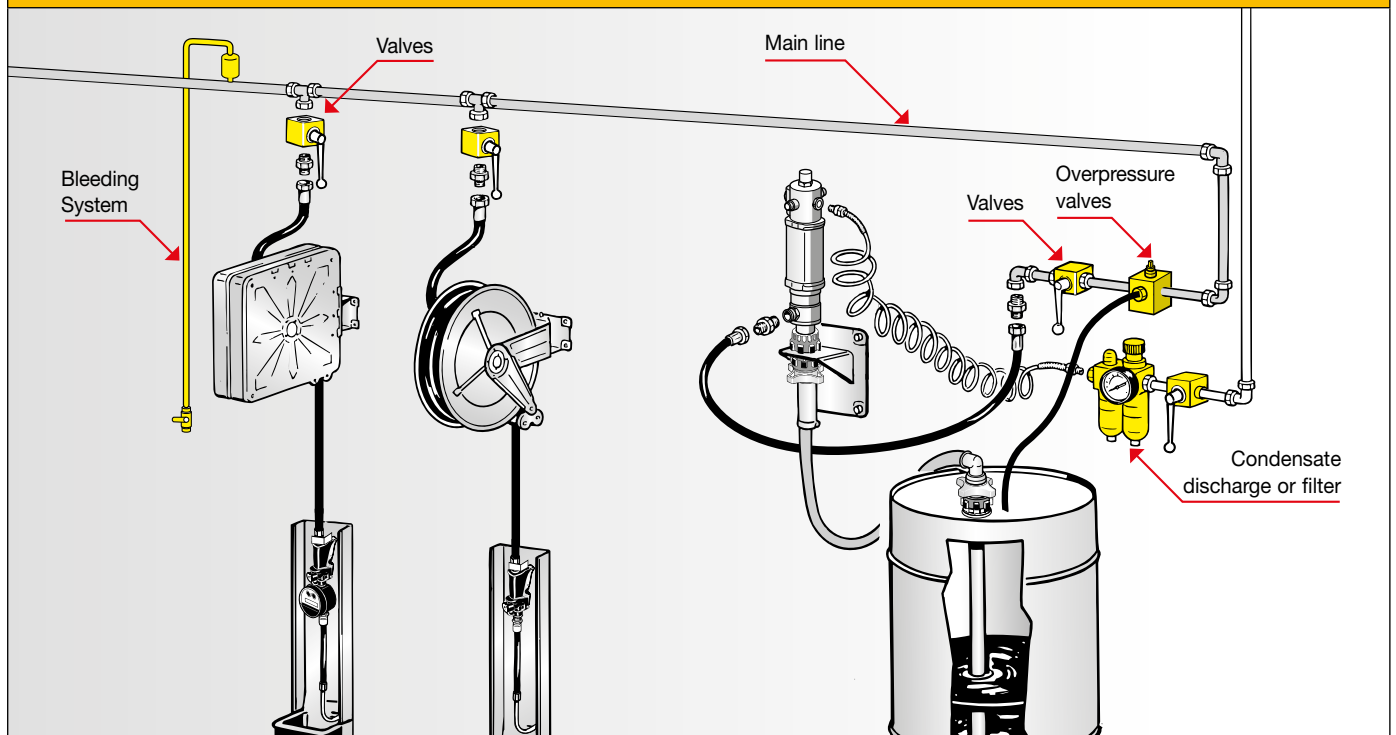
### Tubing for main motor oil line

- distance 0 - 50': 3/4"
- distance 50' - 150': 1"
- distance 150' - 300': 1-1/4"
- distance 300' - 600': 1-1/2"

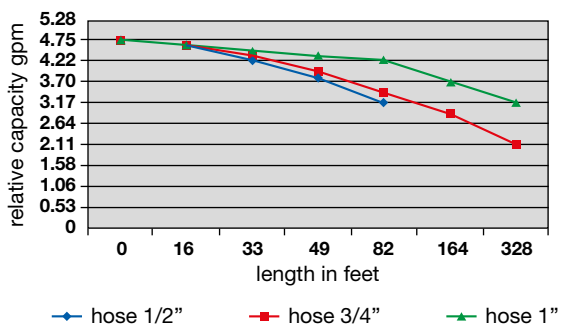
### Tubing for main gear oil line

- distance 0 - 50': 1"
- distance 50' - 150': 1-1/2"
- distance 150' - 300': 2"

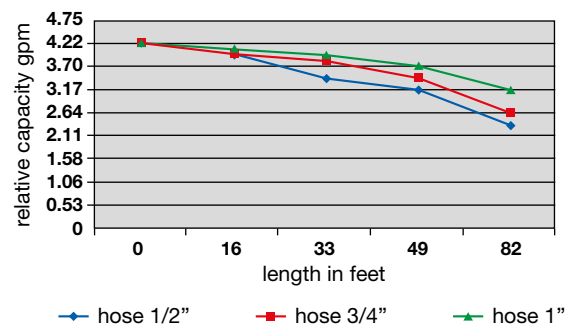
When preparing a main line, in addition to the correct choice of tubing, it is also important to install functional subsidiary elements to ensure better efficiency of the system:  
**Valves, Bleeding system, Condensate discharge or filter, Overpressure valves.**



### PUMP 5:1 - 5.5 gpm



### PUMP 3:1 - 4.4 gpm





# Series 200 - 1:1 - 9.25 gpm

## Air-operated pumps for short and medium distance transfer.

Ideal for transferring low/medium-viscosity fluids such as: waste oils (filtered), lubricants, antifreeze and diesel fuel. The wall-mount version of these pumps is also available with special accessories and/or extensions for specific applications (see page 58 and 64).

### COMPATIBLE FLUIDS (page 16)

- MO** Low and medium viscosity fluids
- WO** Waste fluids
- AD** Antifreeze, diesel fuel



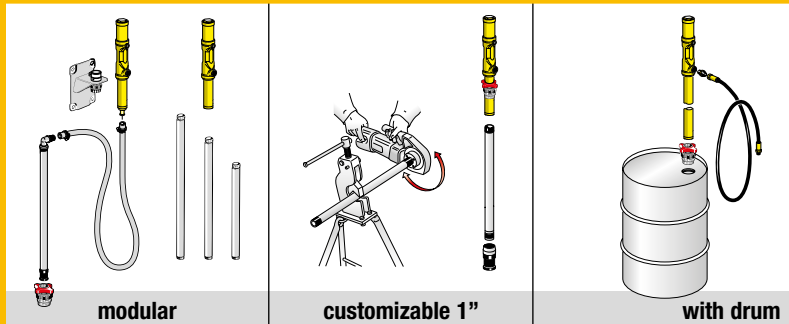
### P/N 26091-55

Type of seals	Viton®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38051-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	25.6
Max. air consumption 120 psi	15 cfm
Suction tube length	6.6" (excluded P/N 10/20-55)
Suction tube external diameter	ø 1.97"
Type of installations	modular - customizable 1"
Packaging - Weight	No. 1 0.35 ft³  lb 10

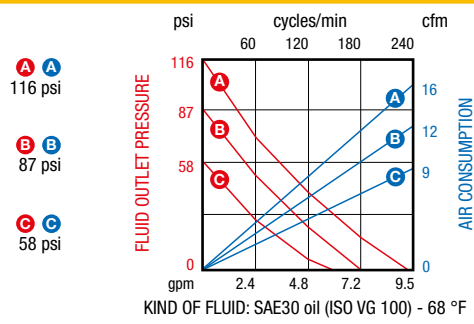
### P/N 26094-55

Type of seals	Viton®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38051-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	25.6
Max. air consumption 120 psi	15 cfm
Suction tube length	37"
Suction tube external diameter	ø 1.97"
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 0.60 ft³  lb 13

### TYPE OF INSTALLATIONS



### PUMP PERFORMANCE







# Series 238 - 1:1 - 6.00 gpm

**Series 238 air-operated pumps for short and medium distance transfer.** Ideal for transferring low-viscosity fluids such as: waste oils (filtered), lubricants, antifreeze and diesel fuel. The wall-mount version of these pumps is also available with special accessories and/or extensions for specific applications (see page 58 and 64).

## COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



Waste fluids



Antifreeze, diesel fuel



## P/N 33061-55

Type of seals	Teflon®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	80 SAE
Cycles per gallon	39.1
Max. air consumption 120 psi	13 cfm
Suction tube length	9.8" (excluded P/N 10/20-55)
Suction tube external diameter	ø 1.65"
Type of installations	modular - customizable 1"
Packaging - Weight	No. 1 0.35 ft³  lb 11

## P/N 33096-55

Type of seals	Teflon®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	80 SAE
Cycles per gallon	39.1
Max. air consumption 120 psi	13 cfm
Suction tube length	37"
Suction tube external diameter	ø 1.65"
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 0.60 ft³  lb 13

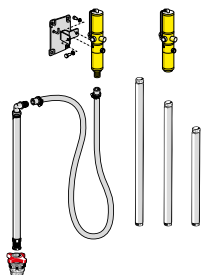
## P/N 33071-55

Type of seals	Viton®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	80 SAE
Cycles per gallon	39.1
Max. air consumption 120 psi	13 cfm
Suction tube length	9.8" (excluded P/N 10/20-55)
Suction tube external diameter	ø 1.65"
Type of installations	modular - customizable 1"
Packaging - Weight	No. 1 0.35 ft³  lb 11

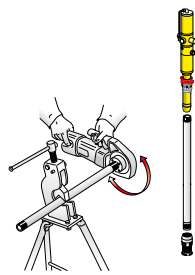
## P/N 33073-55

Type of seals	Viton®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	80 SAE
Cycles per gallon	39.1
Max. air consumption 120 psi	13 cfm
Suction tube length	37"
Suction tube external diameter	ø 1.65"
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 0.60 ft³  lb 13

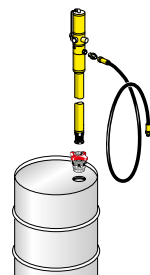
## TYPE OF INSTALLATIONS



modular

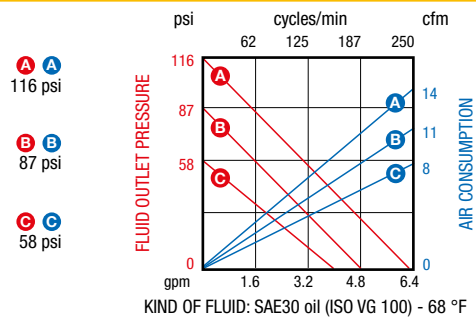


customizable 1"



with drum

## PUMP PERFORMANCE





# Series 200 - 3:1 - 5.30 gpm

**Air-operated pumps for short and medium distance distribution.**  
Ideal for transferring low/medium-viscosity fluids such as: waste oils (filtered), lubricants, antifreeze and diesel fuel. The wall-mount version of these pumps is also available with special accessories and/or extensions for specific applications (see page 58 and 64).

## COMPATIBLE FLUIDS (page 16)

- MO** Low and medium viscosity fluids
- WO** Waste fluids
- AD** Antifreeze, diesel fuel



**P/N 35061-55**

**P/N 35076-55**

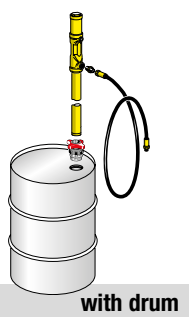
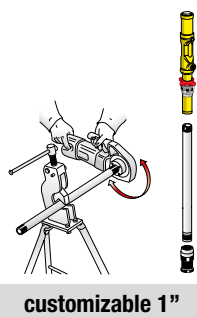
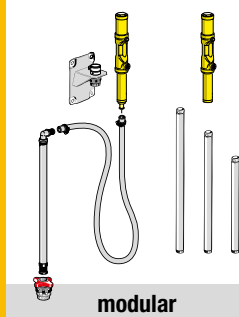
**P/N 35094-55**

Type of seals	Viton®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38046-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	60.4
Max. air consumption 120 psi	23 cfm
Suction tube length	7.2" (excluded P/N 10/20-55)
Suction tube external diameter	1.26"
Type of installations	modular - customizable 1"
Packaging - Weight	No. 1 0.35 ft³  lb 8

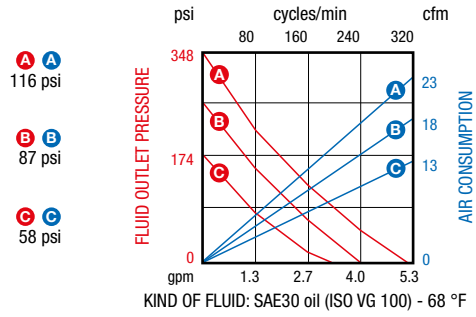
Type of seals	Viton®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38046-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	60.4
Max. air consumption 120 psi	23 cfm
Suction tube length	29"
Suction tube external diameter	1.26"
Type of installations	suitable for drum 16 gal
Packaging - Weight	No. 1 0.60 ft³  lb 9

Type of seals	Viton®
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38046-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	60.4
Max. air consumption 120 psi	23 cfm
Suction tube length	37"
Suction tube external diameter	1.26"
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 0.60 ft³  lb 14

## TYPE OF INSTALLATIONS



## PUMP PERFORMANCE







# Series 238 - 3:1 - 4.40 gpm

## Series 238 air-operated pumps for medium-distance oil distribution.

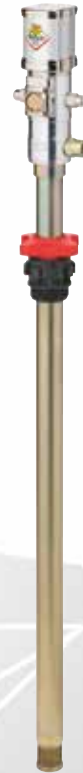
Ideal for distributing  
medium viscosity oils.  
Suitable for movable  
installations and fixed  
systems.

The wall-mount version  
of these pumps is also  
available with special  
accessories and/or  
extensions for specific  
applications (see  
page 58 and 64).

### COMPATIBLE FLUIDS (page 16)



Low and medium  
viscosity fluids



### P/N 35561-55

### P/N 35564-55

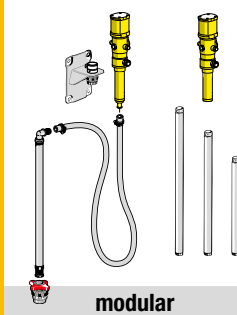
### P/N 35567-55

Type of seals	NBR
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	102.3
Max. air consumption 120 psi	26 cfm
Suction tube length	10.7" (excluded P/N 10/20-55)
Suction tube external diameter	1.65"
Type of installations	modular - customizable 1"
Packaging - Weight	No. 1 0.35 ft³  lb 12

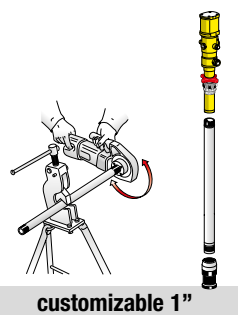
Type of seals	NBR
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	102.3
Max. air consumption 120 psi	26 cfm
Suction tube length	29"
Suction tube external diameter	1.65"
Type of installations	suitable for drum 16 gal
Packaging - Weight	No. 1 0.49 ft³  lb 14

Type of seals	NBR
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	130 SAE
Cycles per gallon	102.3
Max. air consumption 120 psi	26 cfm
Suction tube length	37"
Suction tube external diameter	1.65"
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 0.60 ft³  lb 16

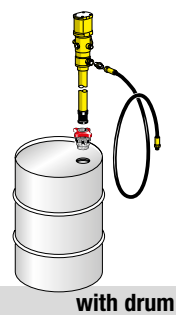
### TYPE OF INSTALLATIONS



modular



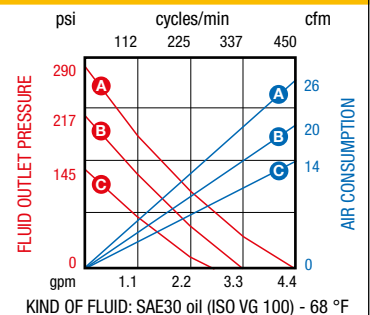
customizable 1"



with drum

### PUMP PERFORMANCE

**A** 116 psi  
**B** 87 psi  
**C** 58 psi





## 3:1 MOBILE LUBE PACKAGES (55 gal)

### Dolly-mounted oil dispenser kits with digital metered valve and 3:1 pumps.

Available with or without hose reel. The ideal combinations for dispensing oil in any workplace.

The very easy to maneuver dolly is equipped with a drum (55 gal) clamping device, side support for the control handle.

The kit equipped with the dolly model P/N 80210-55 also has a rear wheel brake.



#### P/N 35198-55

**Mobile lube kit** for drums of 55 gal with:  
 ■ pump 3:1 - 5.30 gpm  
 ■ hose reel

#### P/N 35199-55

**Mobile lube kit** for drums of 55 gal with:  
 ■ pump 3:1 - 4.40 gpm  
 ■ hose reel

#### P/N 35219-55

**Mobile lube kit** for drums of 55 gal with:  
 ■ pump 3:1 - 5.30 gpm

#### P/N 35220-55

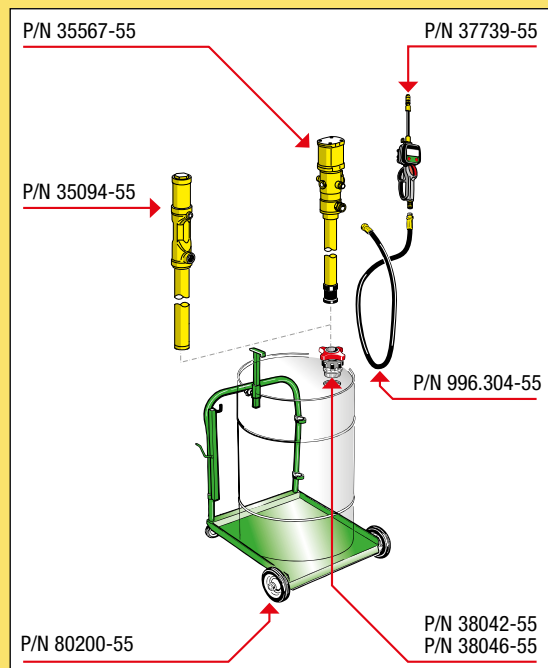
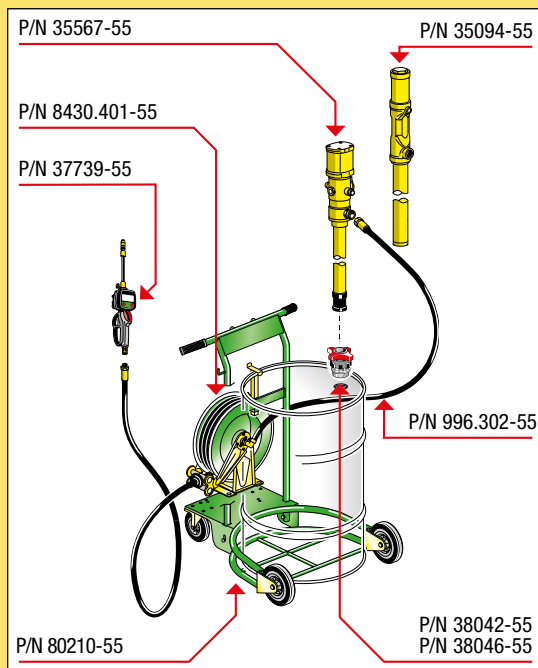
**Mobile lube kit** for drums of 55 gal with:  
 ■ pump 3:1 - 4.40 gpm

<b>Pump 3:1</b>	35094-55
<b>Heavy duty dolly</b>	80210-55 (with brake)
<b>Hose reel 1/2" - 35'</b>	8430.401-55
<b>Bung adapter</b>	38046-55
<b>Control valve with digital meter</b>	37739-55
<b>Hose 1/2"</b>	996.302-55 (7')
<b>Packaging - Weight</b>	No. 1   16.0 ft <sup>3</sup> lb 120

<b>Pump 3:1</b>	35567-55
<b>Heavy duty dolly</b>	80210-55 (with brake)
<b>Hose reel 1/2" - 35'</b>	8430.401-55
<b>Bung adapter</b>	38042-55
<b>Control valve with digital meter</b>	37739-55
<b>Hose 1/2"</b>	996.302-55 (7')
<b>Packaging - Weight</b>	No. 1   16.0 ft <sup>3</sup> lb 118

<b>Pump 3:1</b>	35094-55
<b>Heavy duty dolly</b>	80200-55 (no brake)
<b>Hose reel 1/2" - 35'</b>	-
<b>Bung adapter</b>	38046-55
<b>Control valve with digital meter</b>	37739-55
<b>Hose 1/2"</b>	996.304-55 (13')
<b>Packaging - Weight</b>	No. 1   6.0 ft <sup>3</sup> lb 70

<b>Pump 3:1</b>	35567-55
<b>Heavy duty dolly</b>	80200-55 (no brake)
<b>Hose reel 1/2" - 35'</b>	-
<b>Bung adapter</b>	38042-55
<b>Control valve with digital meter</b>	37739-55
<b>Hose 1/2"</b>	996.304-55 (13')
<b>Packaging - Weight</b>	No. 1   6.0 ft <sup>3</sup> lb 73







## 3:1 MOBILE LUBE PACKAGES (16 gal)

### Dolly-mounted oil dispenser kits.

The ideal combinations for dispensing oil in any workplace.

The compact dolly has 2 fixed wheels and 2 castors that make it very easy to handle.

It is equipped with a pump support and is suitable for holding various types of containers (max 16 gal).



**P/N 35250-55**

**Mobile lube kit** for drums of 16 gal with:  
 ■ pump 3:1 - 4.40 gpm



**P/N 35253-55**

**Mobile lube kit** for drums of 16 gal with:  
 ■ pump 3:1 - 4.40 gpm  
 ■ drum cover



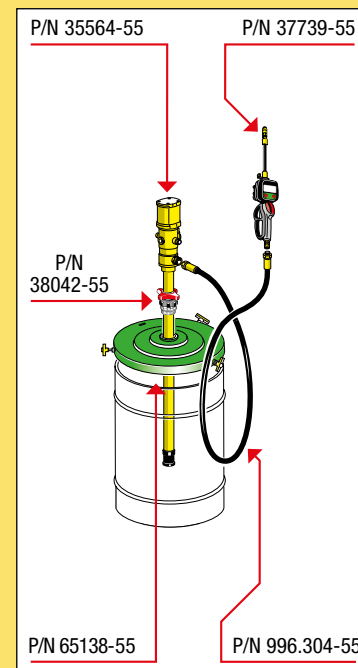
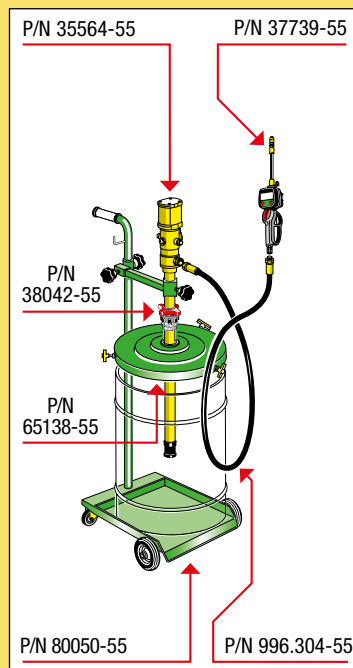
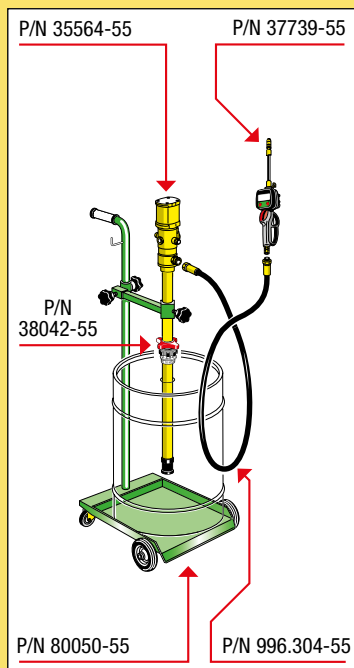
**P/N 35254-55**

**Lube kit** for drums of 16 gal with:  
 ■ pump 3:1 - 4.40 gpm  
 ■ drum cover

<b>Pump 3:1</b>	35564-55
<b>Dolly</b>	80050-55
<b>Drum cover</b>	-
<b>Bung adapter</b>	38042-55
<b>Control valve with digital meter</b>	37739-55
<b>Hose 1/2" - 13'</b>	996.304-55
<b>Packaging - Weight</b>	No. 1 4.9 ft <sup>3</sup> lb 44

35564-55
80050-55
65138-55
38042-55
37739-55
996.304-55
No. 1 4.9 ft <sup>3</sup> lb 51

35564-55
-
65138-55
38042-55
37739-55
996.304-55
No. 1 4.9 ft <sup>3</sup> lb 31





## 3:1 MOBILE LUBE PACKAGES (16 gal)

### Dolly-mounted oil dispenser kits.

The ideal combination for dispensing oil in any workplace. The compact dolly has 2 fixed wheels and 2 castors that make it very easy to handle. It is equipped with a pump support and is suitable for holding various types of containers (16 gal).



**P/N 35260-55**

**Mobile lube kit** for drums of 16 gal with:

- pump 3:1 - 5.30 gpm



**P/N 35263-55**

**Mobile lube kit** for drums of 16 gal with:

- pump 3:1 - 5.30 gpm
- drum cover



**P/N 35264-55**

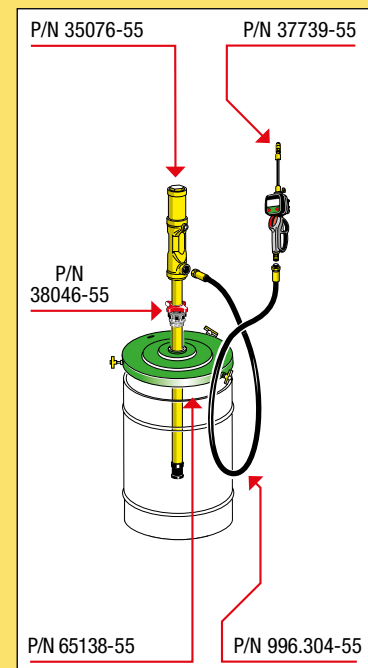
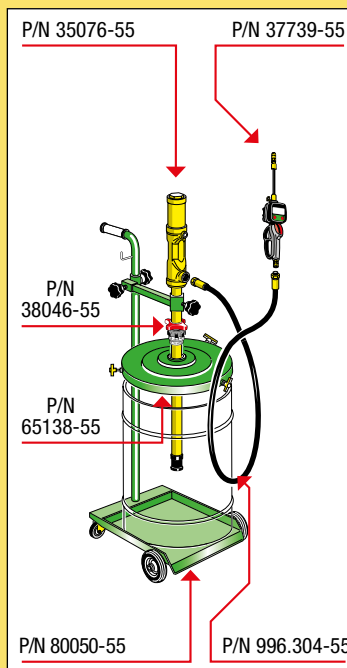
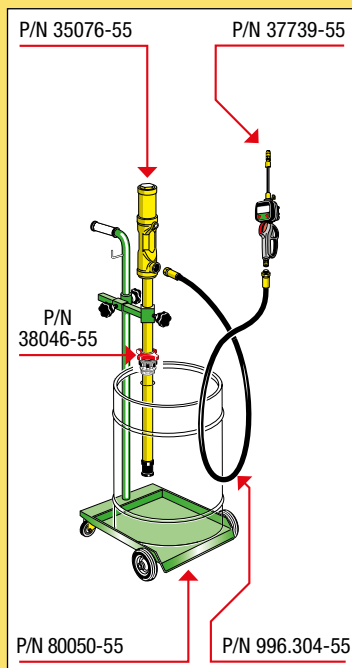
**Lube kit** for drums of 16 gal with:

- pump 3:1 - 5.30 gpm
- drum cover

<b>Pump 3:1</b>	35076-55
<b>Dolly</b>	80050-55
<b>Drum cover</b>	-
<b>Bung adapter</b>	38046-55
<b>Control valve with digital meter</b>	37739-55
<b>Hose 1/2" - 13'</b>	996.304-55
<b>Packaging - Weight</b>	No. 1 4.9 ft <sup>3</sup> lb 44

35076-55
80050-55
65138-55
38046-55
37739-55
996.304-55
No. 1 4.9 ft <sup>3</sup> lb 51

35076-55
-
65138-55
38046-55
37739-55
996.304-55
No. 1 4.9 ft <sup>3</sup> lb 31





## 3:1 MODULAR OIL KITS

Systems for oil dispensing with pump installed on wall or on the tank. Ideal for distribution from storage zones.



Note: the tank is not part of the kit

### P/N 35285-55

**Modular wall-mounted kit**, for dispensing from trade drums 55 gal with:

- pump 3:1 - 4.40 gpm

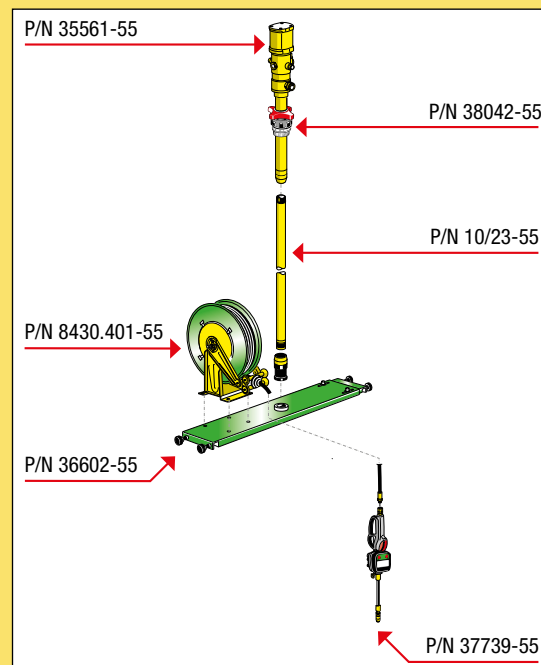
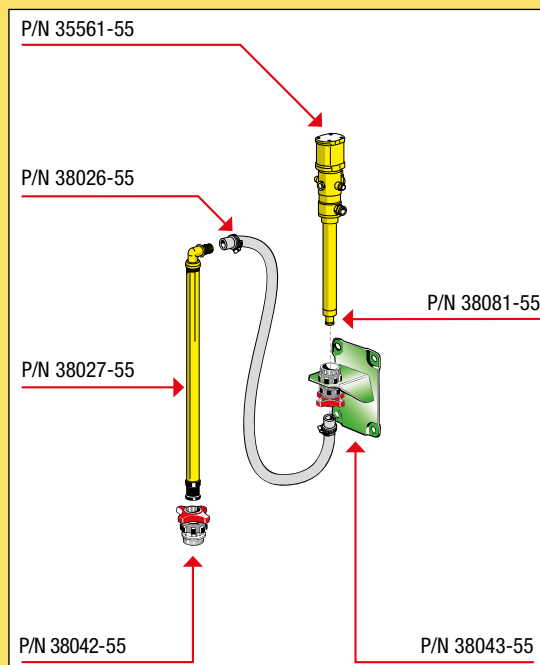
Pump 3:1	35561-55
Hose reel 1/2" - 33'	-
Bung adapter	38042-55
Control valve with digital meter	-
Extensions ø 1.3" - 37.8"	-
Flexible suction tube ø 1-1/4"	38026-55
Rigid suction tube	38027-55
Pump support bracket	38043-55
Hose connector	38081-55
Packaging - Weight	No. 1 1.02 ft³ lb 25

### P/N 36613-55

**Dispensing kit for oil and allied products with:**

- pump 3:1 - 4.40 gpm inserted centrally in the tank
- open hose reel

35561-55
8430.401-55
38042-55
37739-55
10/23-55
-
-
36602-55
-
No. 1 12.0 ft³ lb 117







# Series 238 - 5:1 - 5.50 gpm

## Series 238 air-operated double-acting pumps for medium distance oil distribution.

Ideal for distributing high viscosity oils.

The double action provides the delivery of a continuous flow, ideal for all installations, excellent for long distance distribution.

The modular version may be mounted via accessories (see page 58), and the suction can be extended.

### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



### P/N 36161-55

### P/N 36164-55

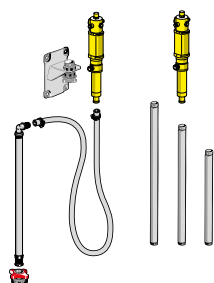
### P/N 36167-55

Type of seals	NBR
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	36.4
Max. air consumption 120 psi	30 cfm
Suction tube length	9.8" (excluded P/N 10/20-55)
Suction tube external diameter	1.65"
Type of installations	modular - customizable 1"
Packaging - Weight	No. 1 0.35 ft³  lb 12

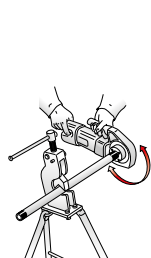
Type of seals	NBR
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	36.4
Max. air consumption 120 psi	30 cfm
Suction tube length	29"
Suction tube external diameter	1.65"
Type of installations	suitable for drum 16 gal
Packaging - Weight	No. 1 0.71 ft³  lb 15

Type of seals	NBR
Air motor	aluminum
Suction tube	carbon steel
Bung adapter	38042-55
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	36.4
Max. air consumption 120 psi	30 cfm
Suction tube length	37"
Suction tube external diameter	1.65"
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 0.71 ft³  lb 16

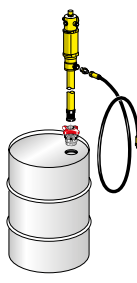
### TYPE OF INSTALLATIONS



modular



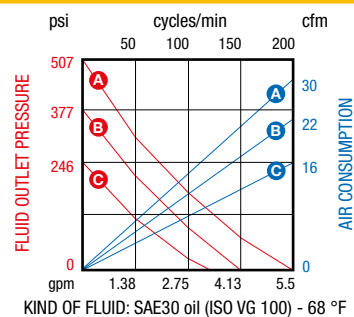
customizable 1"



with drum

### PUMP PERFORMANCE

**A** 116 psi  
**B** 87 psi  
**C** 58 psi





## 5:1 MOBILE LUBE PACKAGES (55 gal)

### Dolly-mounted oil dispensing kits with digital metered valve and 5:1 pumps.

Available with or without hose reel. The ideal combinations for dispensing oil in any workplace. The very easy to maneuver dollies are equipped with a 55 gal drum clamping device and a side support for the control handle. The kit equipped with the dolly model P/N 80210-55 also has a rear wheel brake.



**P/N 37099-55**

**Mobile lube kit** for drums of 55 gal with:

- pump 5:1 - 5.50 gpm ■ hose reel

<b>Pump 5:1</b>	36167-55
<b>Heavy duty dolly</b>	80210-55 (with brake)
<b>Hose reel 1/2" - 35'</b>	8430.401-55
<b>Bung adapter</b>	38042-55
<b>Control valve with digital meter</b>	37739-55
<b>Hose 1/2"</b>	996.302-55 (7')
<b>Packaging - Weight</b>	No. 1 17 ft <sup>3</sup> lb 126

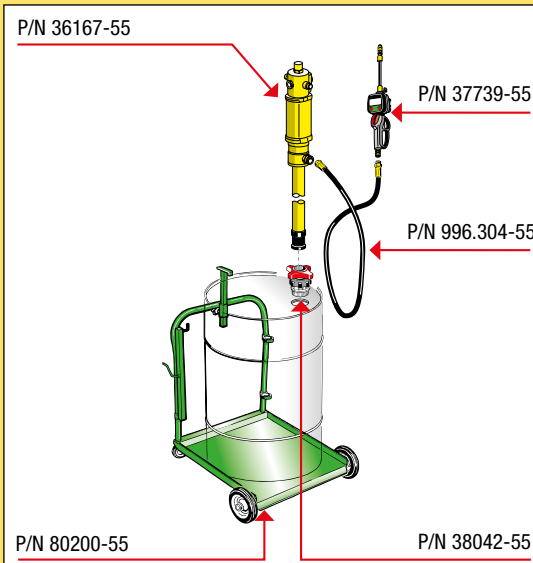
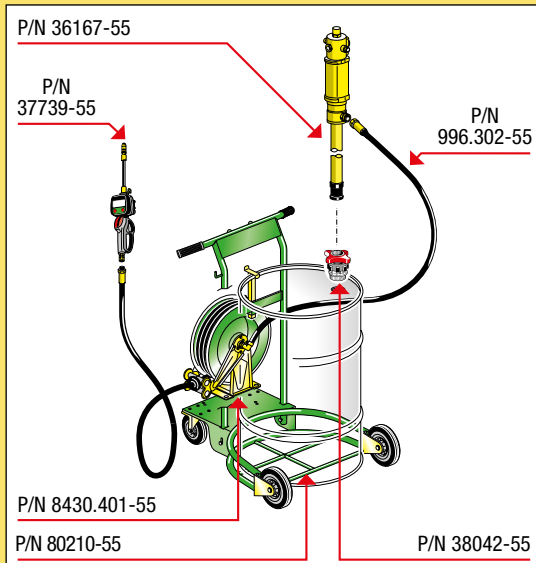


**P/N 37200-55**

**Mobile lube kit** for drums of 55 gal with:

- pump 5:1 - 5.50 gpm

36167-55
80200-55 (no brake)
-
38042-55
37739-55
996.304-55 (13')
No. 1 6.0 ft <sup>3</sup> lb 75





# 5:1 MOBILE LUBE PACKAGES (16 gal)

## 16 gal oil dispenser kits.

The ideal combinations for dispensing oil in any workplace. The dollies are very easy to handle thanks to 2 fixed wheels and 2 castors and offer a pump support and a handle support.



**P/N 37500-55**

**Mobile lube kit** for drums of 16 gal with:  
 ■ pump 5:1 - 5.50 gpm



**P/N 37503-55**

**Mobile lube kit** for drums of 16 gal with:  
 ■ pump 5:1 - 5.50 gpm  
 ■ drum cover



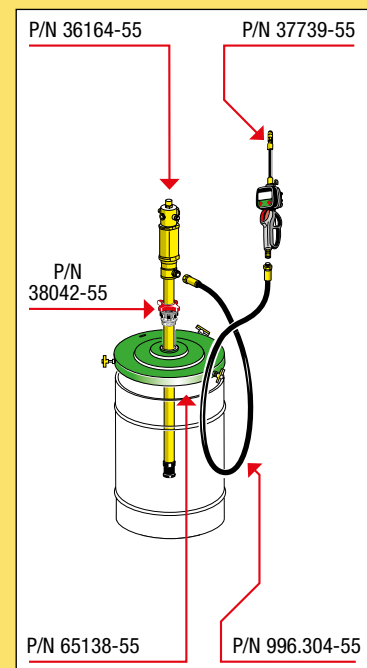
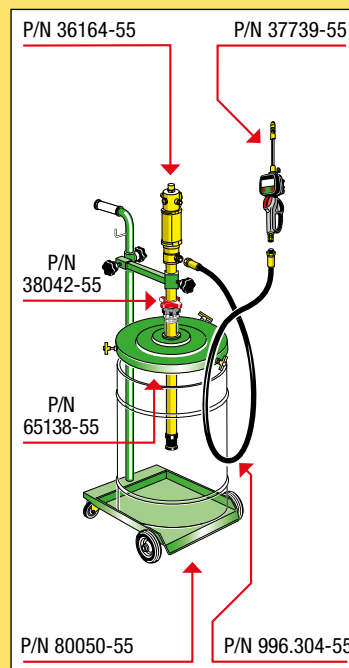
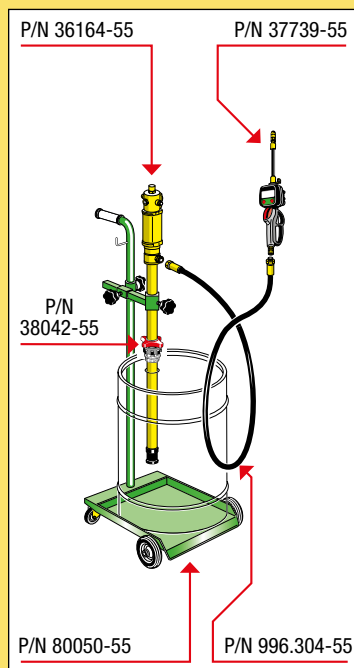
**P/N 37504-55**

**Lube kit** for drums of 16 gal with:  
 ■ pump 5:1 - 5.50 gpm  
 ■ drum cover

Pump 5:1	36164-55
Dolly	80050-55
Drum cover	-
Bung adapter	38042-55
Control valve with digital meter	37739-55
Hose 1/2" - 13'	996.304-55
Packaging - Weight	No. 1 4.9 ft <sup>3</sup> lb 45

36164-55
80050-55
65138-55
38042-55
37739-55
996.304-55
No. 1 4.9 ft <sup>3</sup> lb 52

36164-55
-
65138-55
38042-55
37739-55
996.304-55
No. 1 4.9 ft <sup>3</sup> lb 32







**System for oil dispensing with pump installed on wall or on the tank.**  
Ideal for distribution from storage zones.



Note: the tank is not part of the kit

### P/N 37685-55

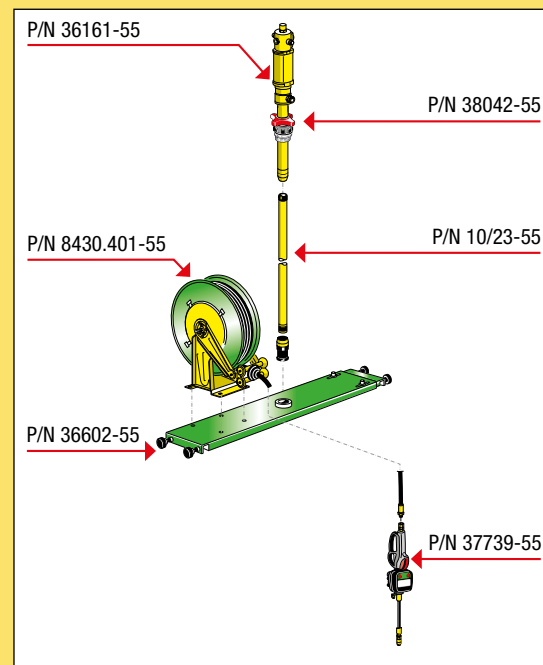
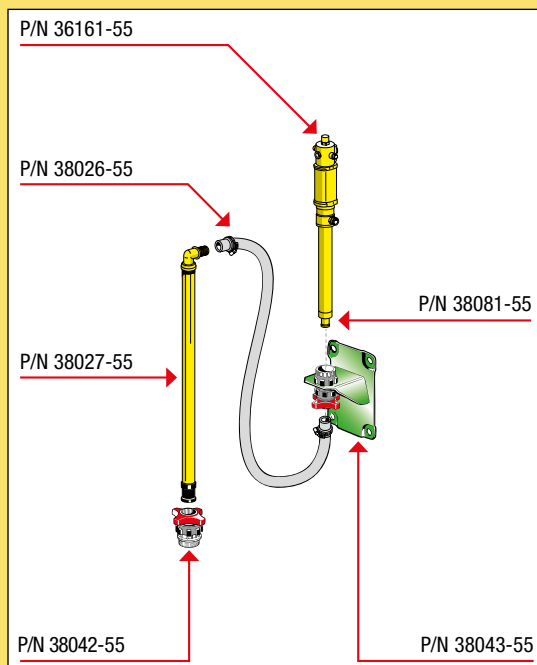
**Modular wall-mounted kit,**  
for dispensing from drums 55 gal with:  
■ pump 5:1 - 5.50 gpm

Pump 5:1	36161-55
Hose reel 1/2" - 33'	-
Bung adapter	38042-55
Control valve with digital meter	-
Extensions ø 1.34"	-
Flexible suction tube ø 1-1/4"	38026-55
Rigid suction tube	38027-55
Pump support bracket	38043-55
Hose connector	38081-55
Packaging - Weight	No. 1 1.0 ft <sup>3</sup> lb 26

### P/N 36622-55

**Dispensing kit for oil and allied products with:**  
■ pump 5:1 - 5.50 gpm inserted centrally in the tank  
■ open hose reel

36161-55
8430.401-55
38042-55
37739-55
10/23-55
-
-
36602-55
-
No. 1 12 ft <sup>3</sup> lb 119





# Series 312 - 5:1 - 12 gpm

**Series 312 industrial air-operated double-acting pumps for medium distance.**  
Ideal for distribution of low to high viscosity oils. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

## COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



## P/N 90C/51-55

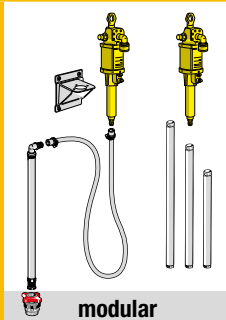
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	16.8
Max. air consumption 120 psi	64 cfm
Suction tube length	10.6"
Suction tube external diameter	2.44"
Type of installations	modular **
Packaging - Weight	No. 1 1.8 ft <sup>3</sup> lb 26

## P/N 90F/51-55

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	16.8
Max. air consumption 120 psi	64 cfm
Suction tube length	10.6"
Suction tube external diameter	2.44"
Type of installations	modular **
Packaging - Weight	No. 1 1.8 ft <sup>3</sup> lb 29

\*\* hose connection or 1" (f) thread

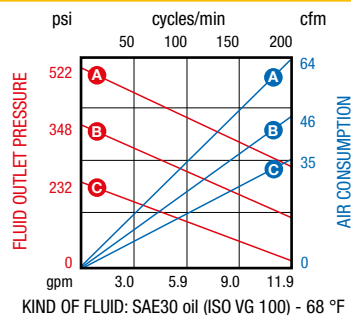
## TYPE OF INSTALLATIONS



modular

## PUMP PERFORMANCE

- A A**  
116 psi
- B B**  
87 psi
- C C**  
58 psi





# Series 312 - 7:1 - 8 gpm

## Series 312 industrial air-operated double-acting pumps for long distance.

Ideal for distribution of low to very high viscosity oils. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



### P/N 90C/71-55

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	25.3
Max. air consumption 120 psi	64 cfm
Suction tube length	10.6"
Suction tube external diameter	2.09" *
Type of installations	modular **
Packaging - Weight	No. 1 1.8 ft³  lb 26

### P/N 90F/71-55

polyurethane
aluminum - carbon steel
carbon steel
available on request (P/N 10/15-55)
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
25.3
64 cfm
10.6"
2.09" *
modular **
No. 1 1.8 ft³  lb 29

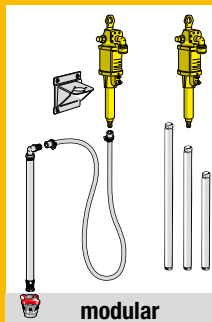
### P/N 93C/71-55

polyurethane
aluminum - carbon steel
carbon steel
available on request (P/N 10/15-55)
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
25.3
64 cfm
29.1"
2.09" *
suitable for drums 16 gal
No. 1 3.3 ft³  lb 32

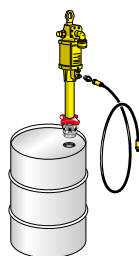
\* suitable for standard 2" opening

\*\* hose connection or 1" (f) thread

### TYPE OF INSTALLATIONS



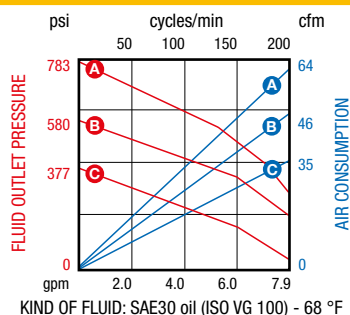
modular



with drum

### PUMP PERFORMANCE

A A  
116 psi  
B B  
87 psi  
C C  
58 psi







# Series 312 - 7:1 - 8 gpm

## Series 312 industrial air-operated double-acting pumps for long distance.

Ideal for distribution of low to very high viscosity oils. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



### P/N 91C/71-55

### P/N 91F/71-55

### P/N 92C/71-55

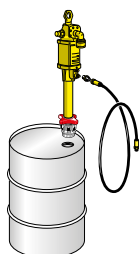
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	25.3
Max. air consumption 120 psi	64 cfm
Suction tube length	37"
Suction tube external diameter	2.09" *
Type of installations	suitable for drums 55 gal
Packaging - Weight	No. 1 3.3 ft <sup>3</sup> lb 35

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	25.3
Max. air consumption 120 psi	64 cfm
Suction tube length	37"
Suction tube external diameter	2.09" *
Type of installations	suitable for drums 55 gal
Packaging - Weight	No. 1 3.3 ft <sup>3</sup> lb 37

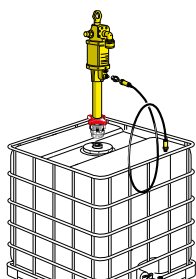
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	25.3
Max. air consumption 120 psi	64 cfm
Suction tube length	49.6"
Suction tube external diameter	2.09" *
Type of installations	tank
Packaging - Weight	No. 1 3.3 ft <sup>3</sup> lb 36

\* suitable for standard 2" opening

### TYPE OF INSTALLATIONS



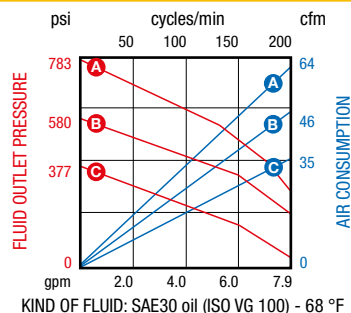
with drum



tank

### PUMP PERFORMANCE

A A  
116 psi  
B B  
87 psi  
C C  
58 psi





# Series 312 - 11:1 - 8 gpm

**Series 312 industrial air-operated double-acting pumps for long distance.**  
Ideal for distribution of low to very high viscosity oils. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.



## COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



Medium and low viscosity greases

## P/N 90C/111-55

## P/N 91C/111-55

## P/N 92C/111-55

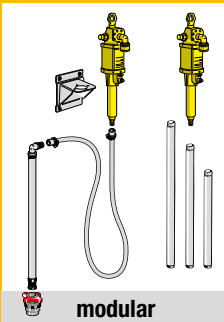
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/14-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	31.7"
Max. air consumption 120 psi	64 cfm
Suction tube length	10.6"
Suction tube external diameter	1.77"
Type of installations	modular **
Packaging - Weight	No. 1 1.8 ft³  lb 26

polyurethane
aluminum - carbon steel
carbon steel
available on request (P/N 10/14-55)
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
31.7"
64 cfm
37"
1.77"
suitable for drums 55 gal
No. 1 3.3 ft³  lb 36

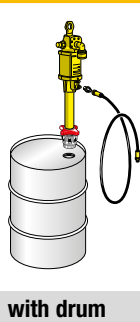
polyurethane
aluminum - carbon steel
carbon steel
available on request (P/N 10/14-55)
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
31.7"
64 cfm
29.1"
1.77"
suitable for drums 16 gal
No. 1 3.3 ft³  lb 33

\*\* hose connection or 1" (f) thread

## TYPE OF INSTALLATIONS



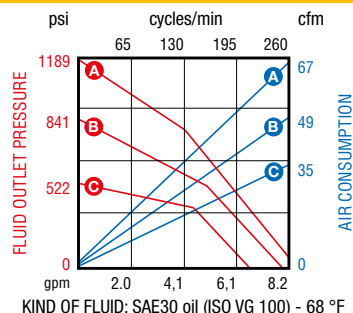
modular



with drum

## PUMP PERFORMANCE

A A  
116 psi  
B B  
87 psi  
C C  
58 psi





# Series 312 - 11:1 - 8 gpm

## Series 312 industrial air-operated double-acting pumps for long distance.

Ideal for distribution of low to very high viscosity oils. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

### COMPATIBLE FLUIDS (page 16)

- MO** Low and medium viscosity fluids
- HO** High viscosity fluids
- GR** Medium and low viscosity greases



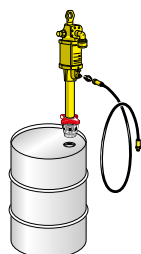
### P/N 90F/111-55

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request ( P/N 10/14-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	31.7
Max. air consumption 120 psi	64 cfm
Suction tube length	18.9"
Suction tube external diameter	1.77"
Type of installations	pump elevator
Packaging - Weight	No. 1 3.3 ft³  lb 29

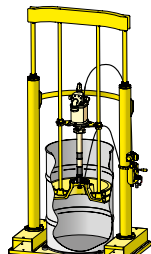
### P/N 91F/111-55

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/14-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	31.7
Max. air consumption 120 psi	64 cfm
Suction tube length	37"
Suction tube external diameter	1.77"
Type of installations	suitable for drums 55 gal
Packaging - Weight	No. 1 3.3 ft³  lb 40

### TYPE OF INSTALLATIONS



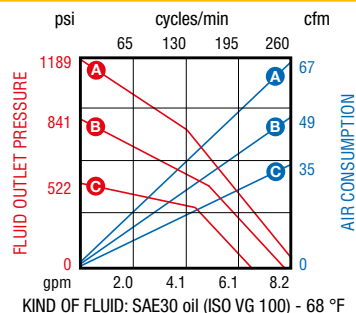
with drum



pump elevator

### PUMP PERFORMANCE

- A A** 116 psi
- B B** 87 psi
- C C** 58 psi







## Series 412 9:1 - 12 gpm

## Series 412 12:1 - 8 gpm

## Series 412 12:1 - 8 gpm

**Series 412 industrial air-operated double-acting pumps for long distance.**  
Ideal for distribution of low to very high viscosity oils. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



### P/N 115F/91-55

### P/N 115F/121-55

### P/N 116F/121-55

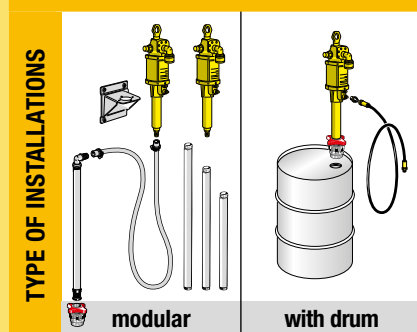
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	16.8
Max. air consumption 120 psi	113 cfm
Suction tube length	9"
Suction tube external diameter	2.44"
Type of installations	modular **
Packaging - Weight	No. 1 1.8 ft³  lb 33

polyurethane
aluminum - carbon steel
carbon steel
available on request (P/N 10/15-55)
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
25.3
113 cfm
9"
2.09" *
modular **
No. 1 1.8 ft³  lb 33

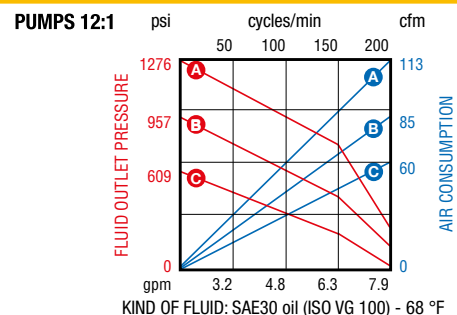
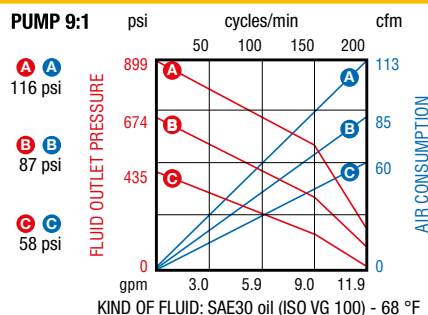
polyurethane
aluminum - carbon steel
carbon steel
available on request (P/N 10/15-55)
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
25.3
113 cfm
37"
2.09" *
suitable for drums 55 gal
No. 1 3.3 ft³  lb 35

\* suitable for standard 2" opening

\*\* hose connection or 1" (f) thread



### PUMP PERFORMANCE





# Series 412 - 18:1 - 6 gpm

## Series 412 industrial air-operated double-acting pumps for long distance.

Ideal for distribution of low to very high viscosity oils. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



Medium and low viscosity greases



### P/N 115F/181-55

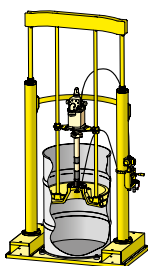
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air max. pressure	120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	32.8
Max. air consumption 120 psi	113 cfm
Suction tube length	18.9"
Suction tube external diameter	2.09" *
Type of installations	pump elevator
Packaging - Weight	No. 1 3.3 ft³  lb 39

### P/N 116F/181-55

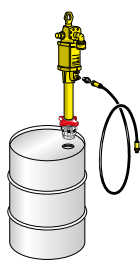
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air max. pressure	120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	32.8
Max. air consumption 120 psi	113 cfm
Suction tube length	37"
Suction tube external diameter	2.09" *
Type of installations	suitable for drums 55 gal
Packaging - Weight	No. 1 3.3 ft³  lb 43

\* suitable for standard 2" opening

### TYPE OF INSTALLATIONS



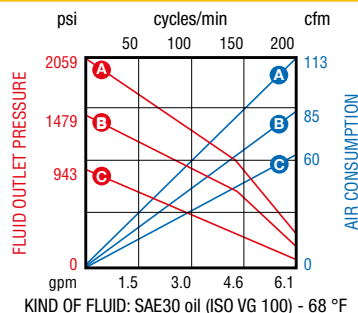
pump elevator



suitable for drums

### PUMP PERFORMANCE

- 116 psi
- 87 psi
- 58 psi





## Series 312

### 2:1 - 25 gpm

## Series 412

### 3:1 - 26 gpm

## Series 600

### 4:1 - 29 gpm

**Series 312 - 412 - 600 divorced industrial air-operated double-acting pumps for long distance.**  
Ideal for distribution of low to very high viscosity oils and/or for very high flow. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

#### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



#### P/N 90D/21-55

#### P/N 115D/31-55

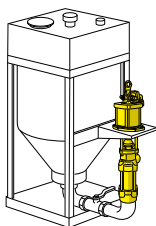
#### P/N 150D/41-55

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	2" NPT (f)
Fluid outlet connection	1-1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	7.6
Max. air consumption 120 psi	71 cfm
Suction tube length	24.6"
Suction tube external diameter	3.94"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 4.2 ft <sup>3</sup> lb 99

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	2" NPT (f)
Fluid outlet connection	1-1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	7.6
Max. air consumption 120 psi	120 cfm
Suction tube length	24.6"
Suction tube external diameter	3.94"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 4.2 ft <sup>3</sup> lb 101

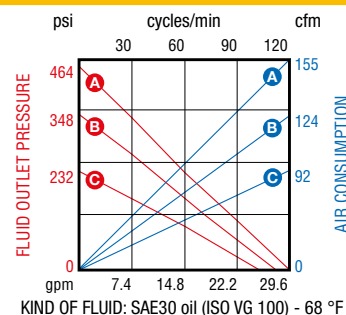
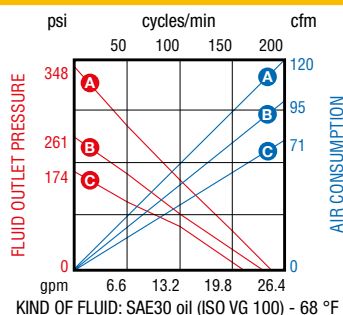
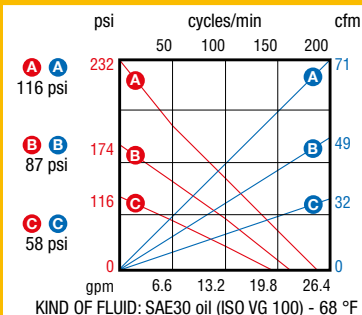
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	2" NPT (f)
Fluid outlet connection	1-1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	4.0
Max. air consumption 120 psi	155 cfm
Suction tube length	24.6"
Suction tube external diameter	4.73"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 4.2 ft <sup>3</sup> lb 136

#### TYPE OF INSTALLATIONS



modular/bulk tank

#### PUMP PERFORMANCE







## Series 600 6:1 - 21 gpm

## Series 700 5:1 - 23 gpm

## Series 700 8:1 - 17 gpm

### Series 600 and 700 divorced industrial air-operated double-acting pumps for long distance.

Ideal for distribution of low to very high viscosity oils and/or very high flow. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

#### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



#### P/N 150D/61-55

#### P/N 180D/51-55

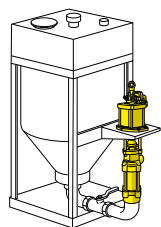
#### P/N 180D/81-55

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	2" NPT (f)
Fluid outlet connection	1-1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	5.7
Max. air consumption 120 psi	155 cfm
Suction tube length	24.6"
Suction tube external diameter	3.94"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 4.2 ft³  lb 115

Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	2" NPT (f)
Fluid outlet connection	1-1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	4.0
Max. air consumption 120 psi	194 cfm
Suction tube length	24.6"
Suction tube external diameter	4.73"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 4.2 ft³  lb 142

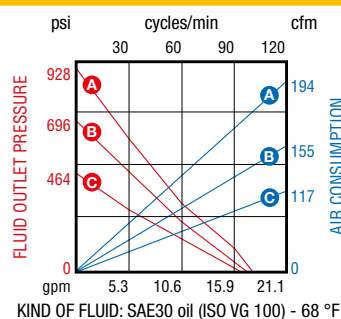
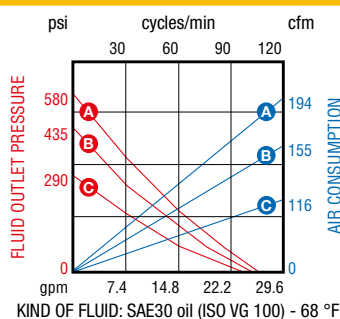
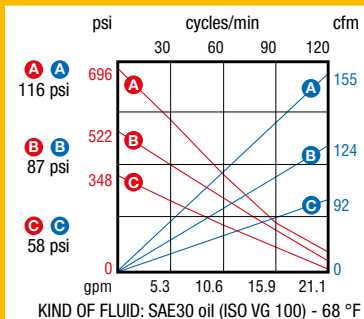
Type of seals	polyurethane
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	2" NPT (f)
Fluid outlet connection	1-1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	5.7
Max. air consumption 120 psi	194 cfm
Suction tube length	24.6"
Suction tube external diameter	3.94"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 4.2 ft³  lb 125

#### TYPE OF INSTALLATIONS



modular/bulk tank

#### PUMP PERFORMANCE





## Series 312 5:1 - 12 gpm

## Series 312 7:1 - 8 gpm

## Series 312 11:1 - 8 gpm

**Series 312 divorced industrial air-operated double-acting pumps for long distance.**  
Ideal for distribution of low to very high viscosity and aggressive fluids. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.



### COMPATIBLE FLUIDS (page 16)



Low and medium viscosity fluids



High viscosity fluids



Antifreeze

### P/N 90D/51-55

### P/N 90D/71-55

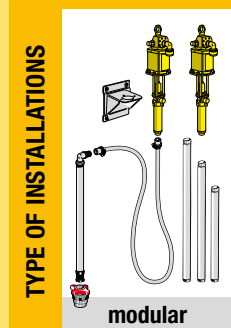
### P/N 90D/111-55

Type of seals	Teflon®
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	1" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	16.8
Max. air consumption 120 psi	64 cfm
Suction tube length	18.9"
Suction tube external diameter	2.44"
Type of installations	modular
Packaging - Weight	No. 1 2.0 ft³  lb 36

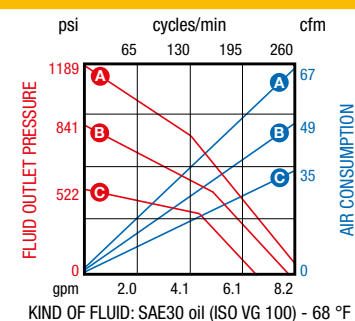
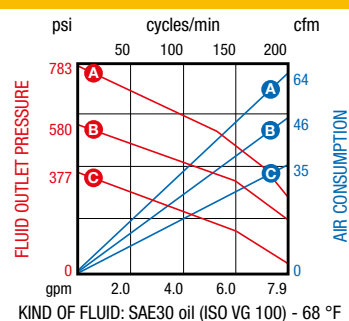
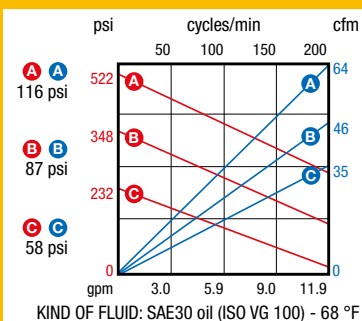
Type of seals	Teflon®
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	1" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	25.3
Max. air consumption 120 psi	64 cfm
Suction tube length	18.9"
Suction tube external diameter	2.09" *
Type of installations	modular
Packaging - Weight	No. 1 2.0 ft³  lb 34

Type of seals	Teflon®
Air motor	aluminum - carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/14-55)
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	1" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	31.7
Max. air consumption 120 psi	67 cfm
Suction tube length	18.9"
Suction tube external diameter	1.77"
Type of installations	modular
Packaging - Weight	No. 1 2.0 ft³  lb 35

\* suitable for standard 2" opening



### PUMP PERFORMANCE





## Series 412 9:1 - 12 gpm

## Series 412 12:1 - 8 gpm

## Series 412 18:1 - 6 gpm

**Series 412 divorced industrial air-operated double-acting pumps for long distance.**  
Ideal for distribution of low to very high viscosity and aggressive fluids. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.



### COMPATIBLE FLUIDS (page 16)

**MO** Low and medium viscosity fluids

**HO** High viscosity fluids

**AD** Antifreeze

### P/N 115D/91-55

### P/N 115D/121-55

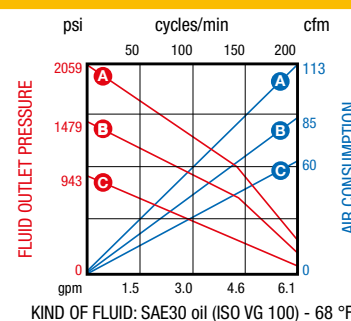
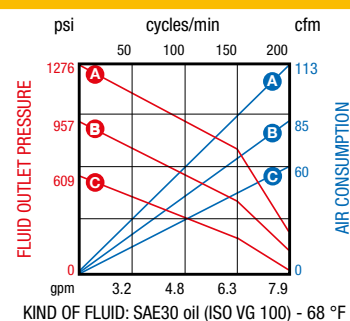
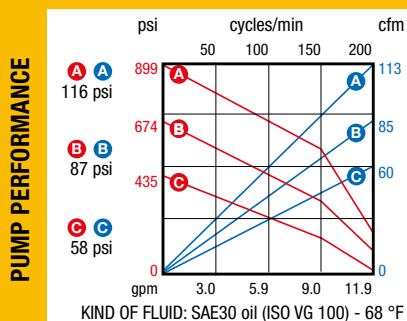
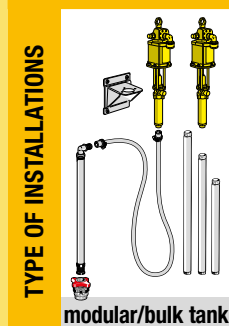
### P/N 115D/181-55

Type of seals	Teflon®
Air motor	carbon steel
Suction tube	carbon steel
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	1" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	16.8
Max. air consumption 120 psi	113 cfm
Suction tube length	18.9"
Suction tube external diameter	2.44"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 2.0 ft³  lb 39

Type of seals	Teflon®
Air motor	carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/15-55)
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	1" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	25.3
Max. air consumption 120 psi	113 cfm
Suction tube length	18.9"
Suction tube external diameter	2.09" *
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 2.0 ft³  lb 35

Type of seals	Teflon®
Air motor	carbon steel
Suction tube	carbon steel
Bung adapter	available on request (P/N 10/14-55)
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	1" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	32.8
Max. air consumption 120 psi	113 cfm
Suction tube length	18.9"
Suction tube external diameter	1.77"
Type of installations	modular / bulk tank
Packaging - Weight	No. 1 2.0 ft³  lb 35

\* suitable for standard 2" opening







## Series 312 6:1 - 11 gpm

## Series 312 6:1 - 11 gpm

## Series 412 9:1 - 11 gpm

**Series 312 and 412 divorced industrial stainless steel air-operated double-acting pumps for long distance.** Ideal for distribution of low to very aggressive fluids, with great viscosity. The double-action provides a continuous flow. Particularly effective in systems equipped with multiple distribution points.

### COMPATIBLE FLUIDS (page 16)

**MO**

Low and medium viscosity fluids

**HO**

High viscosity fluids

**DE**

DEF

**AD**

Antifreeze

**WF**

Windshield fluid



### P/N 94D/61-55

### P/N 95D/61-55

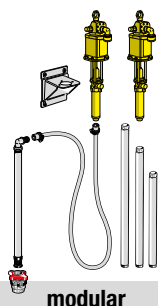
### P/N 120D/91-55

Type of seals	Teflon® + UHMW-PE
Air motor	stainless steel AISI 304
Suction tube	stainless steel AISI 304
Bung adapter	-
Air inlet connection	1/2" NPT (f)
Fluid inlet connection	1-1/4" (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Deliverable oil temperature	14 - 140 °F
Max. deliverable oil viscosity	240 SAE
Cycles per gallon	18.0
Max. air consumption 120 psi	64 cfm
Suction tube length	18.9"
Suction tube external diameter	2.36"
Type of installations	modular
Packaging - Weight	No. 1 2.0 ft³  lb 37

Teflon®
stainless steel AISI 304
stainless steel AISI 304
-
1/2" NPT (f)
1" (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
18.0
64 cfm
18.9"
2.36"
modular
No. 1 2.0 ft³  lb 37

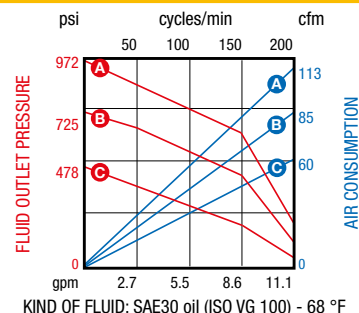
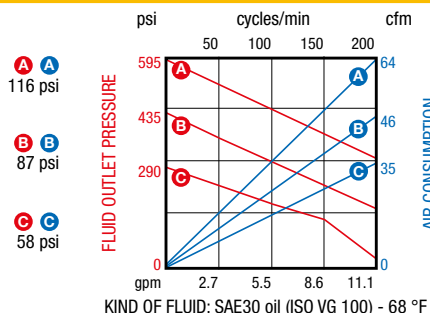
Teflon®
stainless steel AISI 304
stainless steel AISI 304
-
1/2" NPT (f)
1" (f)
3/4" NPT (f)
90 - 120 psi
80 dB
14 - 140 °F
240 SAE
18.0
113 cfm
18.9"
2.36"
modular
No. 1 2.0 ft³  lb 35

### TYPE OF INSTALLATIONS



modular

### PUMP PERFORMANCE





# MODULAR OIL KITS

## System for oil dispensing from tank, with pump applied on wall or on the tank.

A modular solution for oil delivery with connection to a centralized system or hose reel or directly to the delivery hose. Ideal for distribution from storage zones. Complete with accessories for connection to the compressed air system and dispensing system.



Note: the tank is not part of the kit



Note: the tank is not part of the kit

### P/N 36340-55

**Modular wall-mounted kit** for distribution from tank

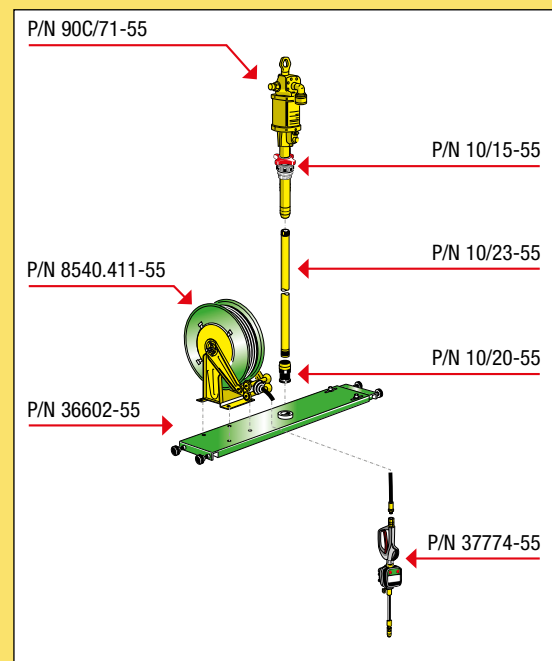
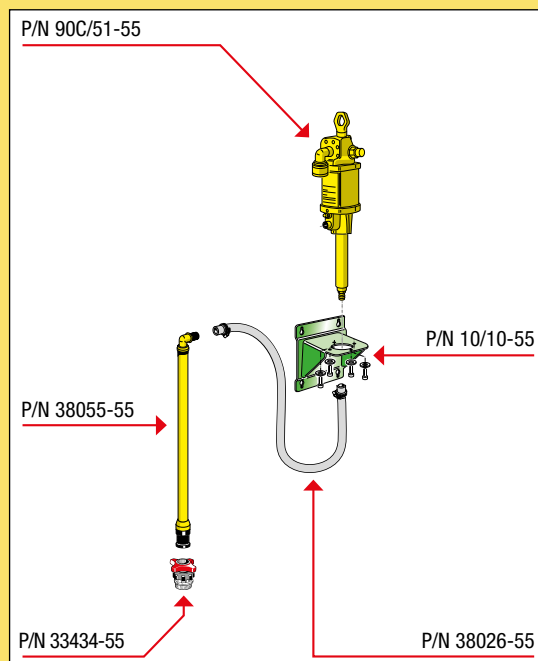
Industrial pump	90C/51-55
Hose reel 3/4" - 50'	-
Bung adapter	33434-55
Control valve with digital meter	-
Extensions ø 1.34"	-
Foot valve	-
Flexible suction tube ø 1-1/4"	38026-55
Rigid suction tube 49.6"	38055-55
Pump support bracket	10/10-55
Packaging - Weight	No. 1 3.2 ft³ lb 59

### P/N 36631-55

**Dispensing kit** for oil and allied products with:

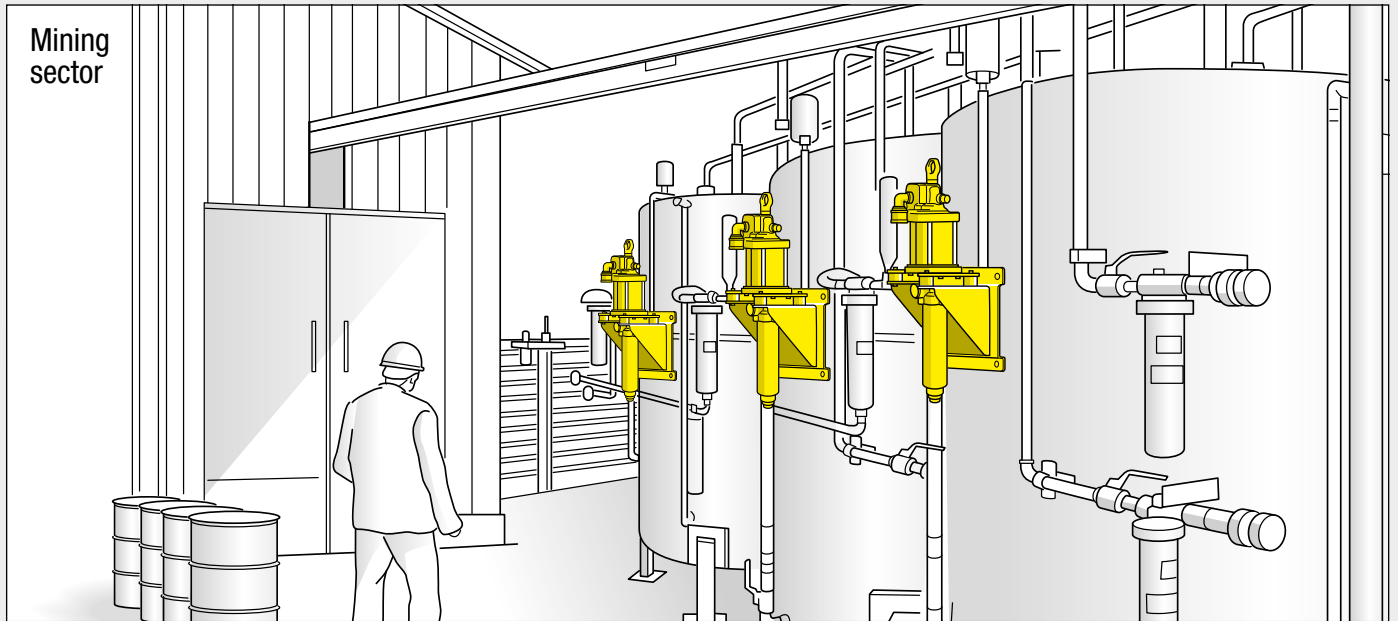
- pump 7:1 - 8 gpm inserted centrally
- open hose reel

90C/71-55
8540.411-55
10/15-55
37774-55
10/23-55
10/20-55
-
-
36602-55
No. 1 10.2 ft³ lb 154

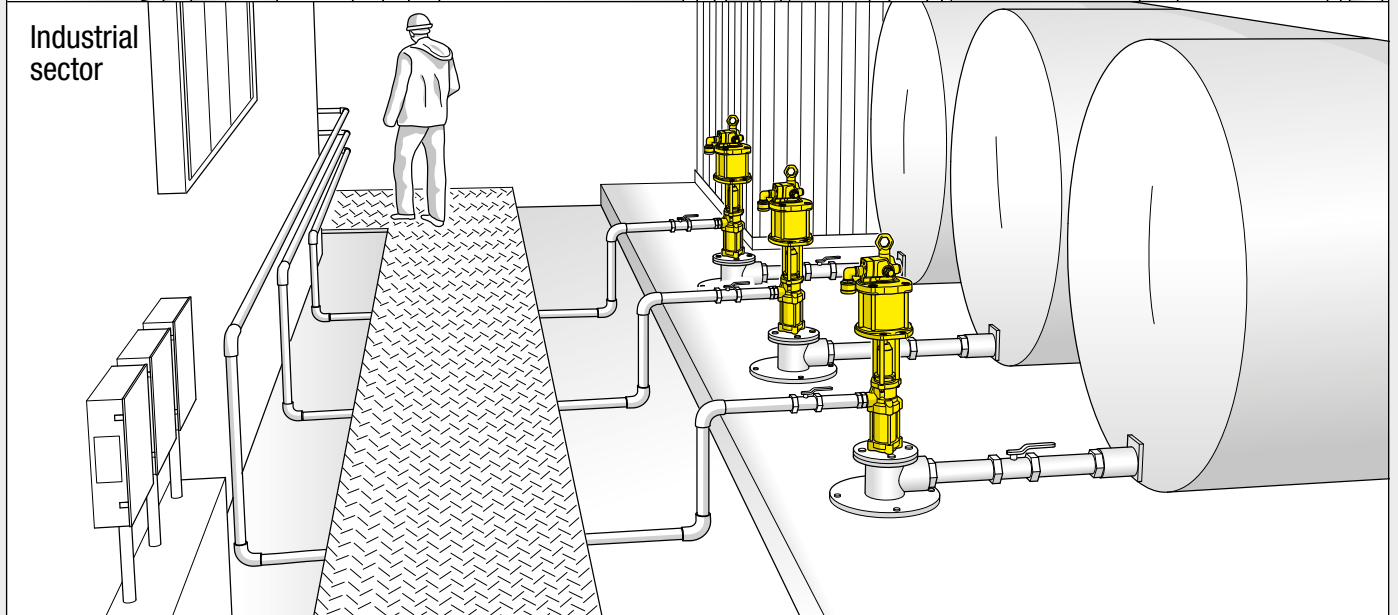


# APPLICATION FIELDS

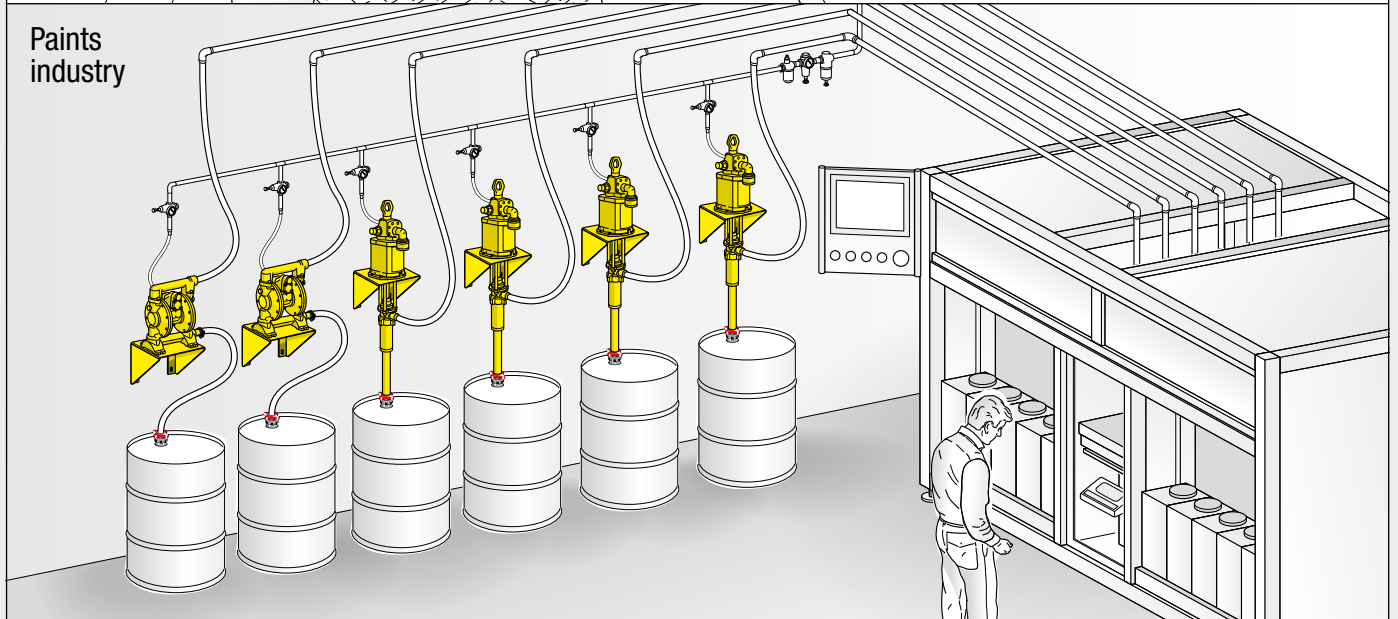
Mining sector



Industrial sector

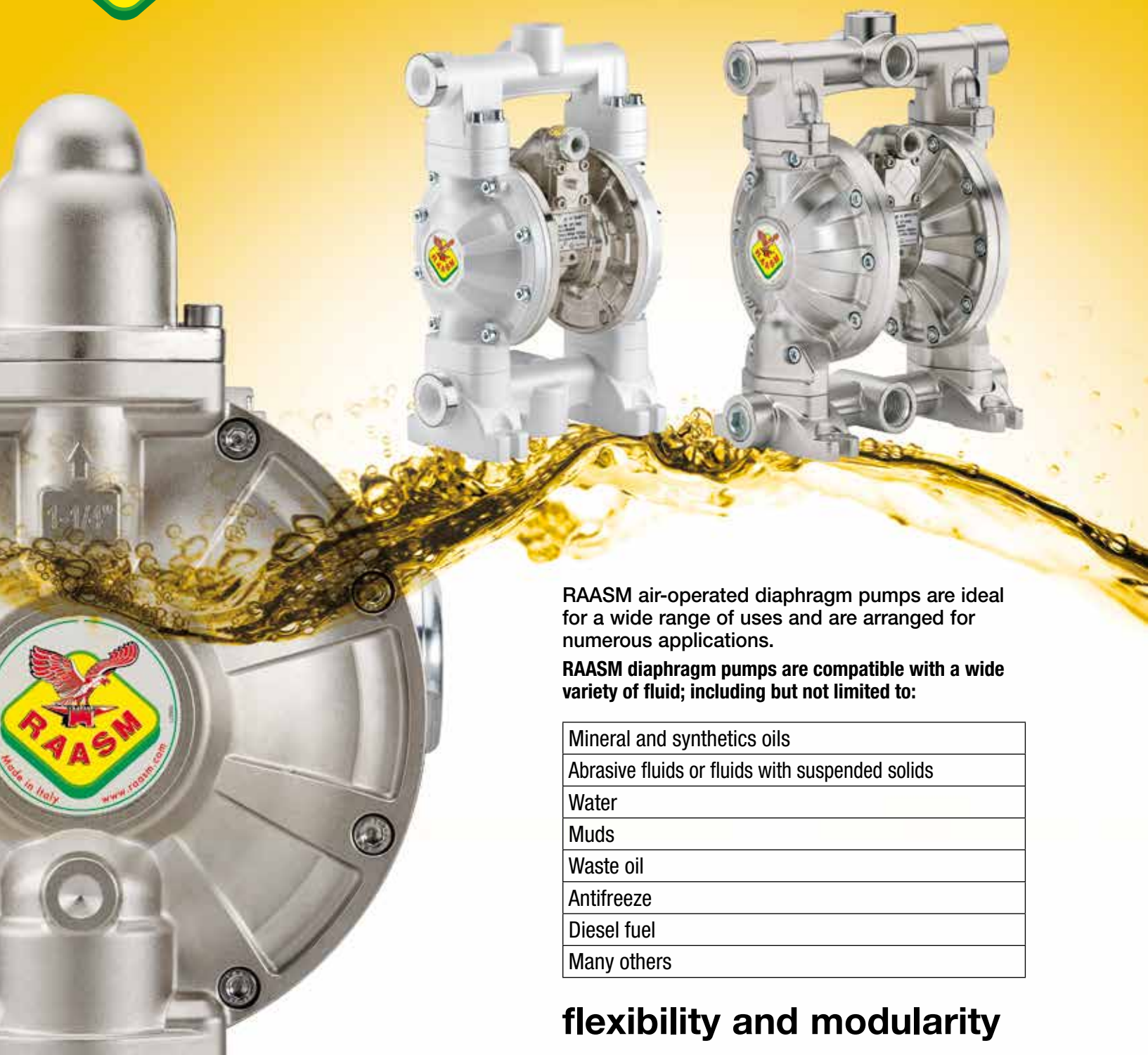


Paints industry





# DIAPHRAGM PUMPS



RAASM air-operated diaphragm pumps are ideal for a wide range of uses and are arranged for numerous applications.

**RAASM diaphragm pumps are compatible with a wide variety of fluid; including but not limited to:**

Mineral and synthetics oils
Abrasive fluids or fluids with suspended solids
Water
Muds
Waste oil
Antifreeze
Diesel fuel
Many others

## flexibility and modularity

**RAASM diaphragm pumps are designed according to a modular concept in order to reduce the number of components. This means:**

- different combinations for adapting the pump to specific applications
- fast and economical scheduled maintenance operations
- easy management of spare parts



# OPERATION

The air-operated diaphragm pumps are oscillating transfer pumps with 2 opposed pumping chambers. Each chamber is divided into 2 hermetic parts, one for the air and one for the fluid. The 2 membranes are united by a metal shaft that forces the membranes to carry out an alternating motion. The introduction of air into one part of the chamber creates suction of the fluid in the opposed part of the other chamber and vice versa.

## COMPLETE CYCLE SEQUENCE

### PHASE 1

The slide valve of the air distribution system sends air (blue) to the left chamber which, pushing the membrane outwards, compresses the previously sucked liquid (green). Through the effect of the pressure created, the **valve 1** closes and the **valve 2** opens, allowing the liquid to come out (green).

The right membrane, obliged to carry out the same movement as the left membrane joined by a shaft, creates a vacuum. Through the effect of the vacuum, the **valve 3** opens and the **valve 4** closes, enabling suction of the liquid (orange).



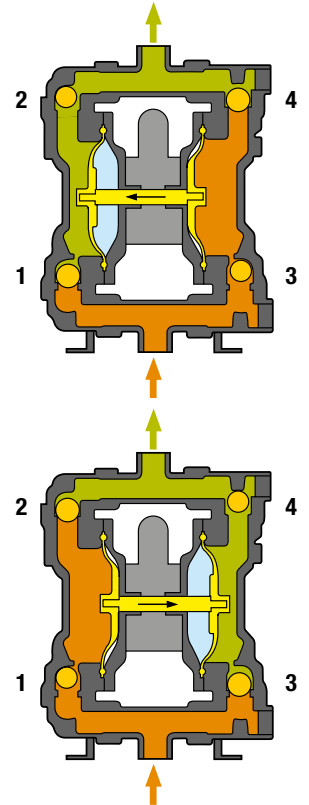
AIR FEED



LIQUID IN SUCTION



LIQUID IN DELIVERY



### PHASE 2

The slide valve of the air distribution system sends air (blue) to the right chamber which, pushing the membrane outwards, compresses the previously sucked liquid (green). Through the effect of the pressure created, the **valve 3** closes and the **valve 4** opens, allowing the liquid to come out (green).

The left membrane, obliged to carry out the same movement as the right membrane joined by a shaft, creates a vacuum. Through the effect of the vacuum, the **valve 1** opens and the **valve 2** closes, enabling suction of the liquid (orange).

## APPROXIMATE DISTANCES FOR CORRECT INSTALLATION OF A DIAPHRAGM PUMP

### SUCTION

- vertically, not more than 20'
- horizontally, not more than 66'

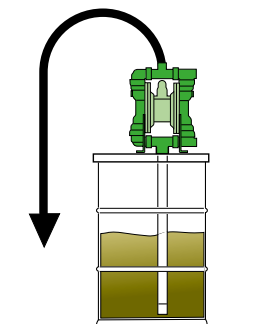
### DELIVERY

(depends on the following variables)

- viscosity and temperature of fluid
- suspended solids
- length/diameter of delivery hose and its constrictions
- vertically, not more than 230'
- horizontally, not more than 650'

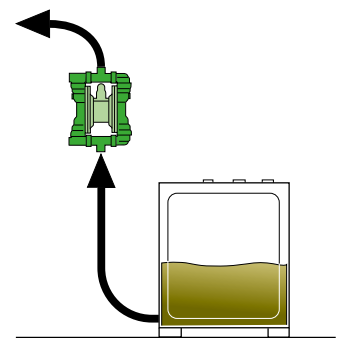
## PUMPS FOR DRUMS

The diaphragm pumps can be installed directly on a drum, tank or other container. For easy use of the pump, equipped with suction tube, it is fixed to the container by means of its adapter.



## SELF-PRIMING PUMPS

The diaphragm pumps are self-priming. Depending on the model, it is possible to obtain self-priming up to 20' vertically and 66' horizontally.





# Series 1/2" - 1:1 - 15.8 gpm

## Diaphragm pumps are used in different types of applications.

They can be installed on wall brackets, on trailers, on moving machines, on drums, on big reservoirs and in many other places. Ideal for transferring fluids even in the presence of suspended solids. Dual inlet version is suitable to mix together two different types of liquids e.g. water and antifreeze.

### SUCTION-DELIVERY BALL VALVE



#### P/N

#### 2BC/16117NH5-55

#### 2BC/16117TT5-55

#### 2BH/16117NH5-55

#### 33507-55

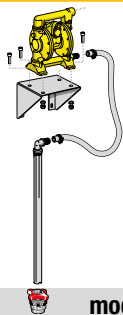
Motor and inside flanges material	Aluminum
Wetted parts	Polypropylene
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel antifreeze
Suction tube material and length	-
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	3/4" NPT (f) x 1/2" NPT (f)
Cycles per gallon	21.25
Air working pressure	30 - 90 psi
Noise level	75 dB
Fluid temperature	14 - 149 °F
Max. solids diameter	ø 0.06"
Type of installations	modular
Packaging - Weight	No. 1 0.5 ft³  lb 13

Motor and inside flanges material	Aluminum
Wetted parts	Polypropylene
Membrane material	Teflon®
Ball valve material	Teflon®
Compatible fluids	windshield washing liquid, antifreeze, DEF
Suction tube material and length	-
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	3/4" NPT (f) x 1/2" NPT (f)
Cycles per gallon	21.25
Air working pressure	30 - 90 psi
Noise level	75 dB
Fluid temperature	14 - 149 °F
Max. solids diameter	ø 0.06"
Type of installations	modular
Packaging - Weight	No. 1 0.5 ft³  lb 13

Motor and inside flanges material	Aluminum
Wetted parts	Polypropylene
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel antifreeze
Suction tube material and length	-
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	3/4" NPT (f) x 1/2" NPT (f)
Cycles per gallon	21.25
Air working pressure	30 - 90 psi
Noise level	75 dB
Fluid temperature	14 - 149 °F
Max. solids diameter	ø 0.06"
Type of installations	modular
Packaging - Weight	No. 1 0.5 ft³  lb 13

Motor and inside flanges material	Aluminum
Wetted parts	Polypropylene
Membrane material	Teflon®
Ball valve material	Teflon®
Compatible fluids	windshield washing liquid, antifreeze, DEF
Suction tube material and length	AISI 304 Stainless steel - 37"
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	3/4" NPT (f) x 1/2" NPT (f)
Cycles per gallon	21.25
Air working pressure	30 - 90 psi
Noise level	75 dB
Fluid temperature	14 - 149 °F
Max. solids diameter	ø 0.06"
Type of installations	Suitable for drums 55 gal
Packaging - Weight	No. 1 3.85 ft³  lb 25

#### TYPE OF INSTALLATIONS

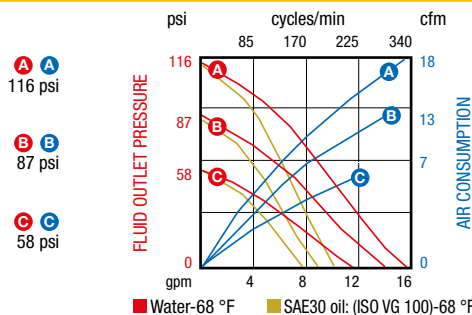


modular



with drum

#### PUMP PERFORMANCE





# Series 3/4" - 1:1 - 18.5 gpm

The transfer diaphragm pumps in die-cast aluminum, with high-quality components, ensure lasting and reliable operation even in extreme conditions.

## SUCTION-DELIVERY BALL VALVE



### P/N 32/2011NHH2-55

### P/N 33500-55

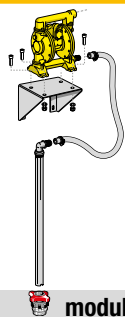
### P/N 33505-55

Motor and inside flanges material	Aluminum
Wetted parts	Aluminum
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel, waste oil, antifreeze
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	3/4" NPT (f/f)
Cycles per gallon	25
Air working pressure	30 - 90 psi
Max. air consumption 120 psi	30 cfm
Noise level	75 dB
Suction tube material and length	-
Max. solids diameter	ø 0.06"
Type of installations	modular
Packaging - Weight	No. 1 0.71 ft³  lb 16

Motor and inside flanges material	Aluminum
Wetted parts	Aluminum
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel, waste oil, antifreeze
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	Suction tube ø 1.34" - 3/4" NPT (f)
Cycles per gallon	25
Air working pressure	30 - 90 psi
Max. air consumption 120 psi	30 cfm
Noise level	75 dB
Suction tube material and length	carbon steel - 37"
Max. solids diameter	ø 0.06"
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 3.63 ft³  lb 20

Motor and inside flanges material	Aluminum
Wetted parts	Aluminum
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel, waste oil, antifreeze
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	Suction tube ø 1.34" - 3/4" NPT (f)
Cycles per gallon	25
Air working pressure	30 - 90 psi
Max. air consumption 120 psi	30 cfm
Noise level	75 dB
Suction tube material and length	carbon steel - 48.8"
Max. solids diameter	ø 0.06"
Type of installations	tank - max height 48"
Packaging - Weight	No. 1 3.63 ft³  lb 21

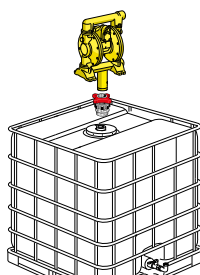
## TYPE OF INSTALLATIONS



modular

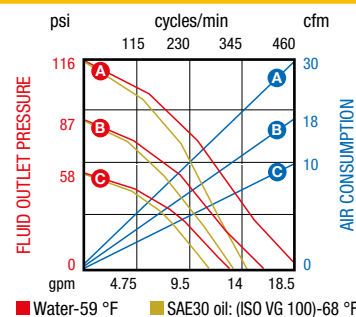


with drum or tank



## PUMP PERFORMANCE

A A  
116 psi  
B B  
87 psi  
C C  
58 psi





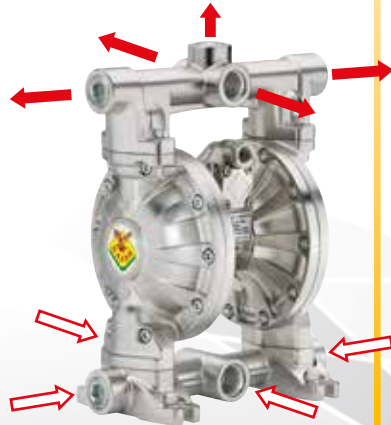
**Series 1"**  
**1:1 - 45 gpm**

**Series 1-1/2"**  
**1:1 - 126.5 gpm**

**Series 2"**  
**1:1 - 161 gpm**

The transfer diaphragm pumps, specific for oils and similar products, in die-cast aluminum, with high-quality components, ensure lasting and reliable operation even in extreme conditions. Ideal for transferring fluids even in the presence of suspended solids. Manifolds equipped with multiple inlet and outlet allow the end user to choose the best connection depending on the needs of the installation.

**SUCTION-DELIVERY BALL VALVE**



**P/N 3CC/26111NHH-55**

**P/N 3CA/40111NHH-55**

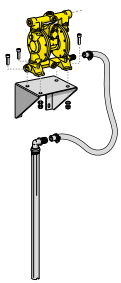
**P/N 3CA/50111NHH-55**

Motor and inside flanges material	Aluminum
Wetted parts	Aluminum
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel, waste oil, antifreeze
Air inlet connection	3/8" NPT (f)
Fluid inlet-outlet connection	1" NPT (f) x 1" NPT (f)
Cycles per gallon	6.25
Air working pressure	30 - 90 psi
Max. air consumption 120 psi	57 cfm
Noise level	75 dB
Fluid temperature	14 - 194 °F
Max. solids diameter	ø 0.12"
Packaging - Weight	No. 1 0.9 ft³ lb 30

Motor and inside flanges material	Aluminum
Wetted parts	Aluminum
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel, waste oil, antifreeze
Air inlet connection	3/4" NPT (f)
Fluid inlet-outlet connection	2" NPT (f) - 1-1/2" NPT (f)
Cycles per gallon	1.7
Air working pressure	30 - 90 psi
Max. air consumption 120 psi	120 cfm
Noise level	78 dB
Fluid temperature	14 - 194 °F
Max. solids diameter	ø 0.22"
Packaging - Weight	No. 1 2.3 ft³ lb 56

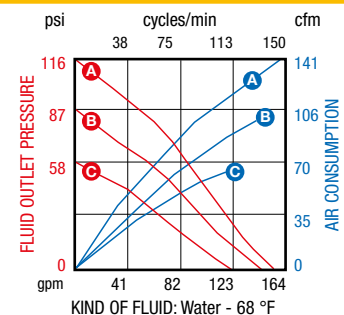
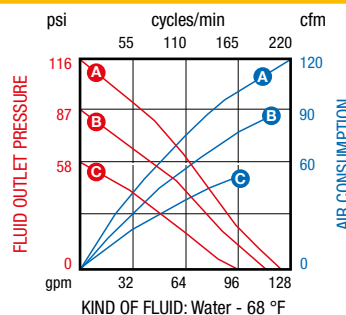
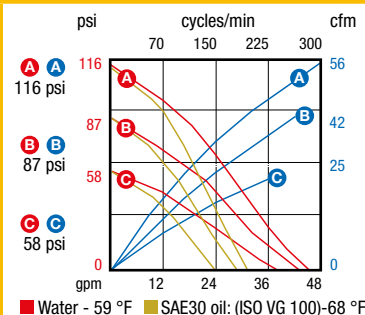
Motor and inside flanges material	Aluminum
Wetted parts	Aluminum
Membrane material	NBR High Nitrile
Ball valve material	Hytrel®
Compatible fluids	water, oils, diesel fuel, waste oil, antifreeze
Air inlet connection	3/4" NPT (f)
Fluid inlet-outlet connection	2 1/2" NPT (f) - 2" NPT (f)
Cycles per gallon	0.9
Air working pressure	30 - 90 psi
Max. air consumption 120 psi	141 cfm
Noise level	82 dB
Fluid temperature	14 - 194 °F
Max. solids diameter	ø 0.26"
Packaging - Weight	No. 1 4.06 ft³ lb 96

**TYPE OF INSTALLATIONS**



**modular**

**PUMP PERFORMANCE**







## 3/4" DIAPHRAGM PUMP KITS

**Modular wall-mounted kit for transfer from drums or tanks.** Ideal for transferring low/medium-viscosity fluids such as: oil, antifreeze, diesel fuel, etc. Wall-mounting, with connection to a fixed system enables liquids to be transferred from the place of storage to the dispensing station. The rigid suction tube (P/N 33581-55) can be lengthened by means of modular elements (see page 64) for adapting to the height of the tanks.



**P/N 33510-55**

**Modular wall-mounted kit, for transfer from drums 55 gal**

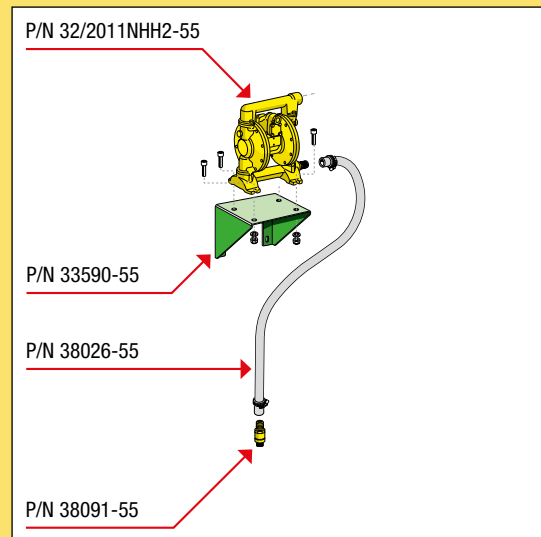
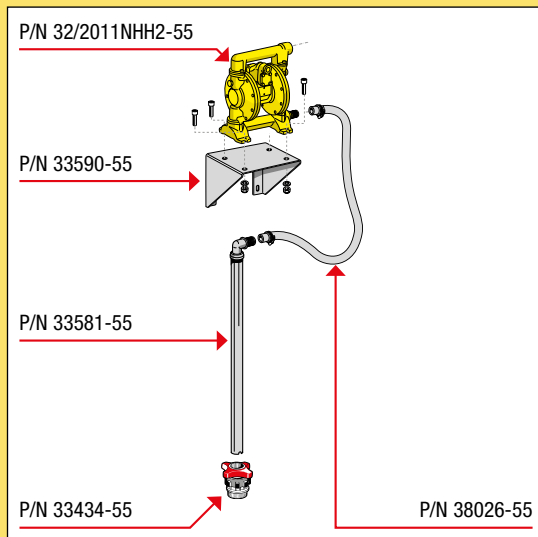
<b>Pump 1:1 - 18.5 gpm</b>	32/2011NHH2-55 - seals NBR
<b>Bung adapter</b>	33434-55
<b>Check valve</b>	-
<b>Flexible suction tube ø 1-1/4"</b>	38026-55
<b>Rigid suction tube</b>	33581-55
<b>Hose connection</b>	38080-55
<b>Pump support bracket</b>	33590-55
<b>Packaging - Weight</b>	☐ No. 1 3.63 ft³    ⚖ lb 33



**P/N 33530-55**

**Modular wall-mounted kit for transfer from tanks with connection to the tank's discharge**

32/2011NHH2-55 - seals NBR
-
38091-55
38026-55
-
38080-55
33590-55
☐ No. 1 1.1 ft³    ⚖ lb 23





# 3/4" DIAPHRAGM PUMP KITS

**Kit for dispensing from tank.** A complete solution for dispensing oil and other fluids. The dispensing pump and the hose reel are fixed directly to the tank by means of sturdy brackets.

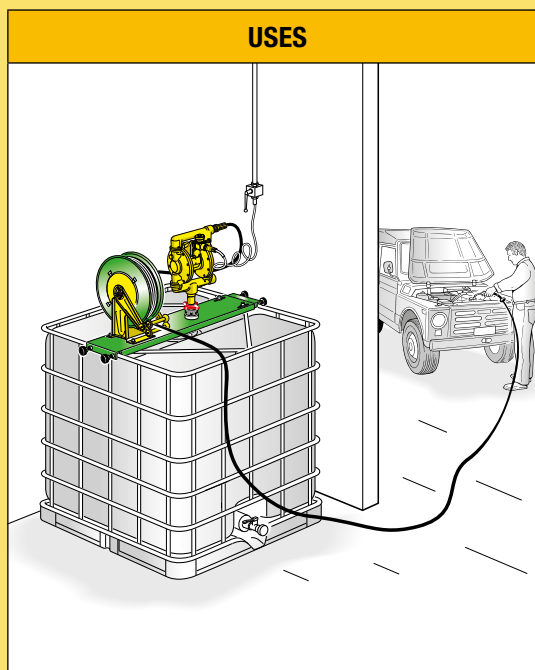
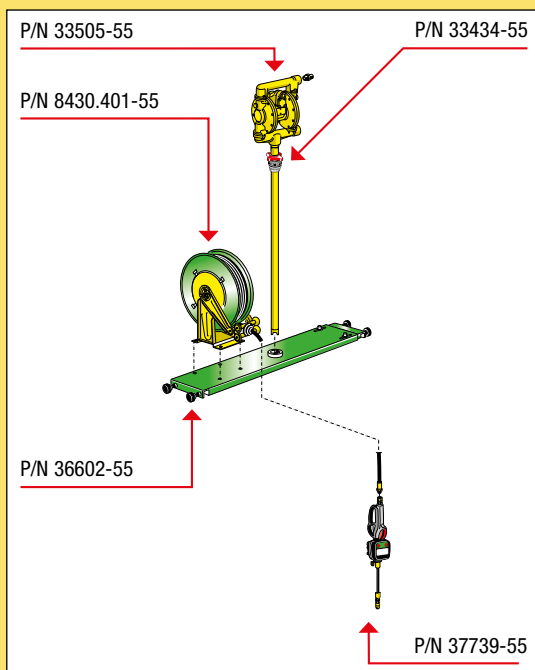


Note: the tank is not part of the kit

## P/N 33541-55

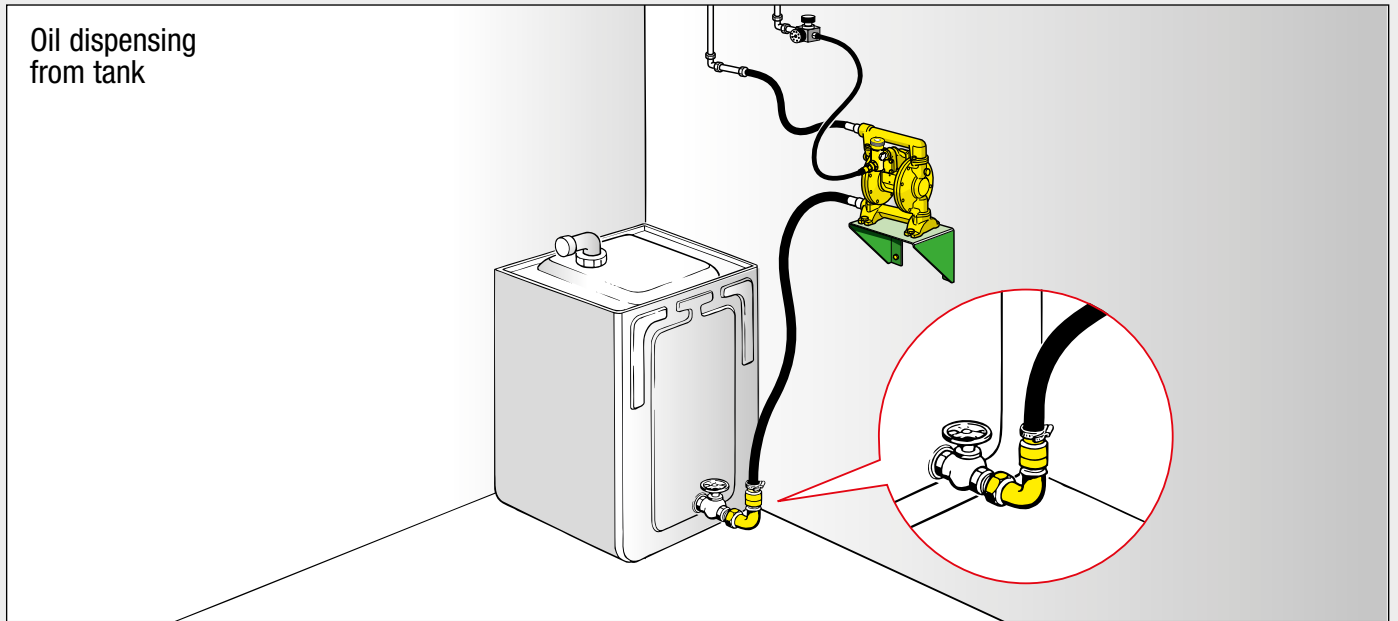
Dispensing kit for oil with pump inserted centrally and open hose reel

Pump 1:1 - 18.5 gpm	33505-55 - seals NBR
Bung adapter	33434-55
Hose reel 1/2" - 35'	8430.401-55
Control valve with digital meter	37739-55
Pump support bracket	36602-55
Packaging - Weight	No. 1 13 ft <sup>3</sup> lb 115

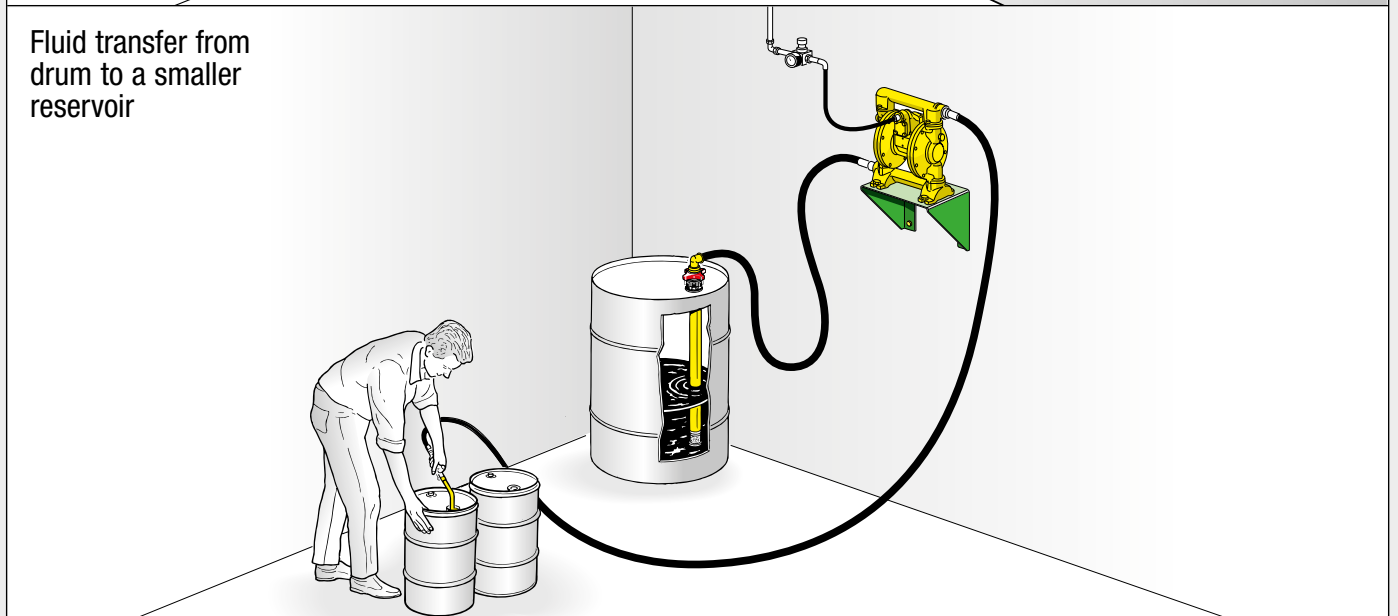


# APPLICATION FIELDS

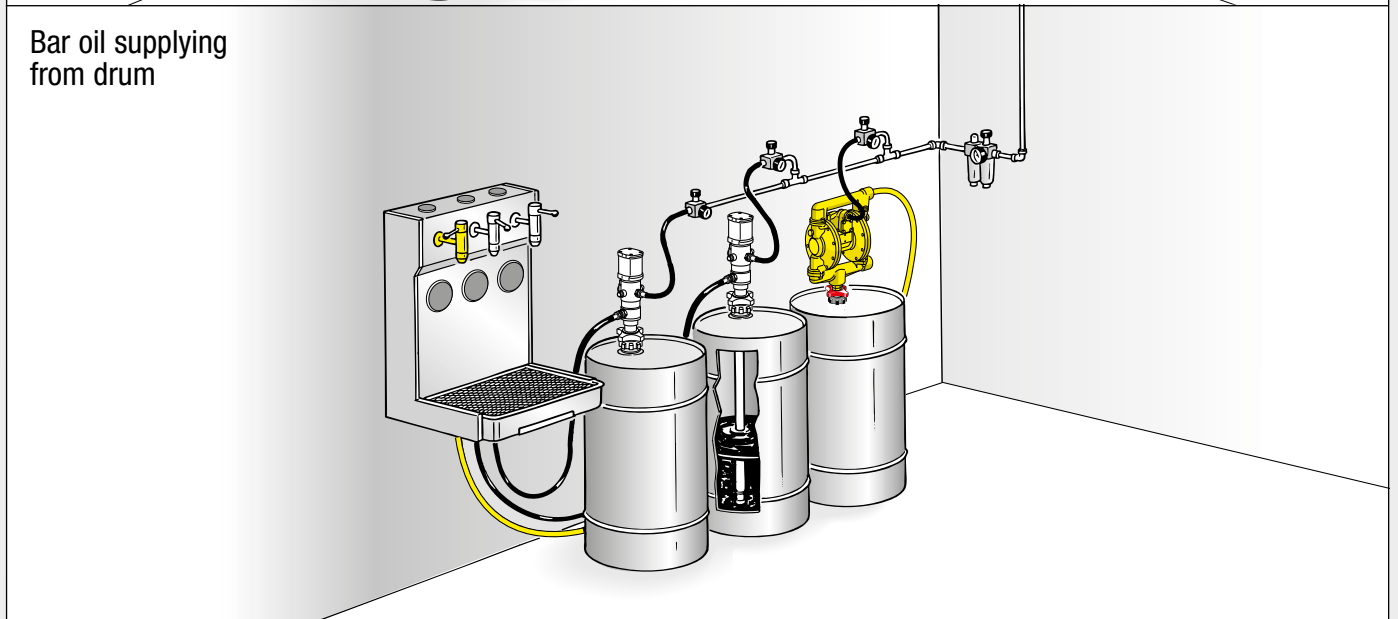
Oil dispensing  
from tank



Fluid transfer from  
drum to a smaller  
reservoir



Bar oil supplying  
from drum





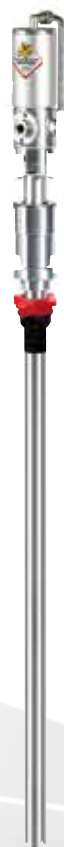
# Series 238 STAINLESS STEEL 1:1 - 8 gpm

**AISI 304 stainless steel air-operated pumps** for short/medium distance transfer. Ideal for transferring low/medium-viscosity fluids such as: antifreeze liquid, windshield washing liquid, DEF and chemical products.

**DE** DEF (Diesel Exhaust Fluid)

**AD** Antifreeze, diesel fuel

**WF** Windshield fluid



## P/N 33360-55

## P/N 33396-55

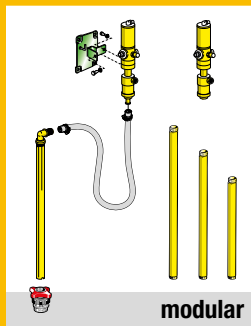
## P/N 33363-55

Type of seals	Viton®
Air motor	stainless steel AISI 304 - Aluminum
Suction tube	stainless steel AISI 304
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Cycles per gallon	48.2
Air max. pressure	120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Bung adapter	-
Suction tube length	-
Suction tube external diameter	-
Max. air consumption 120 psi	13 cfm
Type of installations	modular
Packaging - Weight	No. 1 0.4 ft³  lb 12

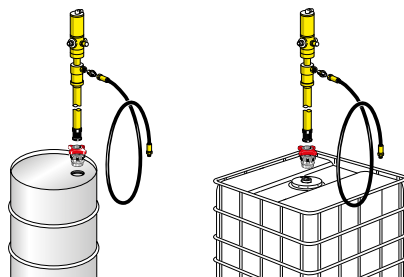
Type of seals	Viton®
Air motor	stainless steel AISI 304 - Aluminum
Suction tube	stainless steel AISI 304
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Cycles per gallon	48.2
Air max. pressure	120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Bung adapter	P/N 33434-55
Suction tube length	37"
Suction tube external diameter	ø 1.34"
Max. air consumption 120 psi	13 cfm
Type of installations	suitable for drum 55 gal
Packaging - Weight	No. 1 0.7 ft³  lb 16

Type of seals	Viton®
Air motor	stainless steel AISI 304 - Aluminum
Suction tube	stainless steel AISI 304
Air inlet connection	1/4" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Cycles per gallon	48.2
Air max. pressure	120 psi
Noise level	81 dB
Deliverable oil temperature	14 - 122 °F
Bung adapter	P/N 33434-55
Suction tube length	49.6"
Suction tube external diameter	ø 1.34"
Max. air consumption 120 psi	13 cfm
Type of installations	for IBC
Packaging - Weight	No. 1 0.7 ft³  lb 20

### TYPE OF INSTALLATIONS



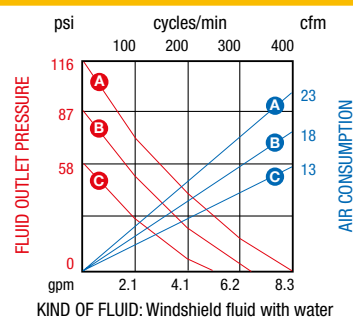
modular



with drum or IBC

### PUMP PERFORMANCE

**A** 116 psi  
**B** 87 psi  
**C** 58 psi







# MODULAR KIT FOR STAINLESS STEEL PUMPS

**Modular wall-mounted kit for transfer with AISI 304 stainless steel pump.** Ideal for transferring low/medium-viscosity fluids such as: antifreeze liquid, window washing liquid, DEF (only P/N 33300-55) and chemical products. Wall-mounting, with connection to a fixed system, enables liquids to be transferred from the place of storage to the service station.

**DE** DEF (Diesel Exhaust Fluid)  
**AD** Antifreeze, diesel fuel  
**WF** Windshield fluid



P/N 33445-55



P/N 33446-55

## P/N 33300-55

**Modular kit with AISI 304 stainless-steel pump for distribution from drums 55 gal**

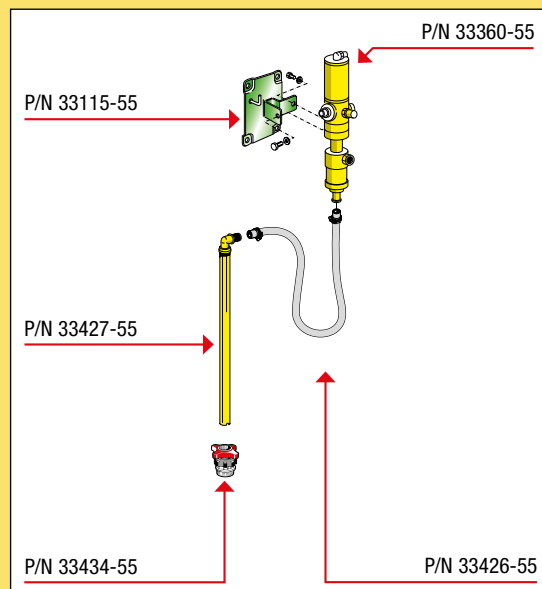
<b>Pump 1:1 - 8 gpm</b>	33360-55
<b>Bung adapter</b>	33434-55
<b>Flexible suction hose 3/4"</b>	33426-55
<b>Rigid suction tube</b>	33427-55
<b>Pump support bracket</b>	33115-55
<b>Packaging - Weight</b>	No. 1 1.0 ft <sup>3</sup> lb 25

## P/N 33445-55

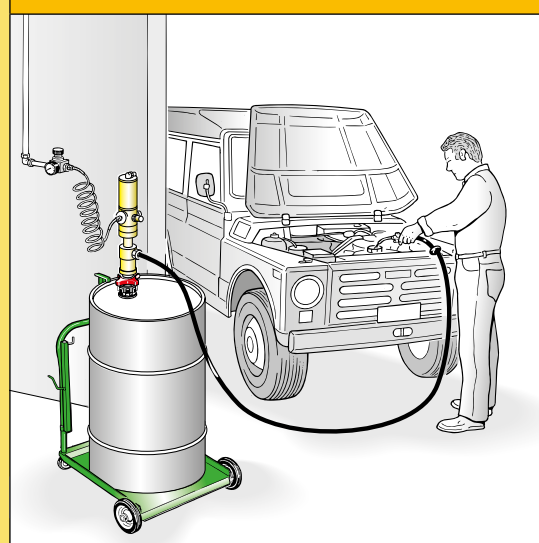
**Control handle for antifreeze and windshield washing liquid** applicable to kit equipped with inlet joint 1/2" NPT (f). With rigid terminal with free outlet and lever locking button

## P/N 33446-55

**Windshield washing liquid handle with electronic meter** P/N 33785-55 equipped with 1/2" NPT (f) inlet swivel joint, filter, high flow rate rigid terminal and lever locking button



## USES





## WALL-MOUNTED OIL BAR

**Oil bar ideal for dispensing oil and antifreeze liquid.** Fed by air pump or with connection to a centralized system. It offers the availability of up to 3 different types of fluids. Quick and easy drawing of fluid available with an electronic meter for controlling the quantity.

**Drum oil tap.** Ideal for dispensing oil and antifreeze liquid. The delivery tap is connected directly to the feeding pump. Very compact, it enables quick filling of jugs or other small containers.



## OIL TAP DRUMS



### P/N 37690-55

**Wall mounted oil bar** equipped with:

- P/N 37692-55, 1 tap

### P/N 26098-55

**Oil tap drums,**  
equipped with:

- P/N 26094-55  
pump 1:1 - 9.25 gpm
- P/N 37683-55 oil tap  
with connection to pump
- suitable for oil and  
antifreeze

### P/N 37698-55

**Oil tap drums,**  
equipped with:

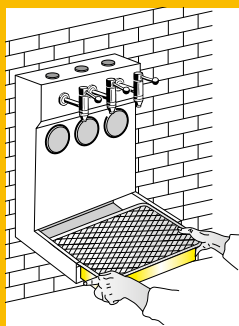
- P/N 35567-55  
pump 3:1 - 4.40 gpm
- P/N 37683-55 oil tap  
with connection to pump

#### Packaging - Weight

No. 1 4.8 ft<sup>3</sup> lb 52

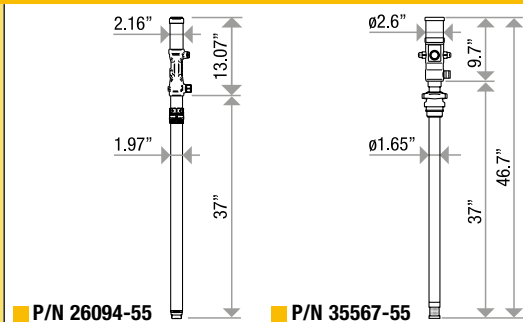
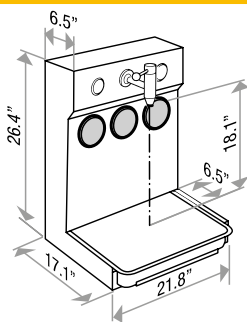
No. 1 1.4 ft<sup>3</sup> lb 21

#### DETAILS AND ADVANTAGES



Equipped  
with an easy  
to clean,  
removable  
drip-catcher  
tray and  
sturdy  
support grid.

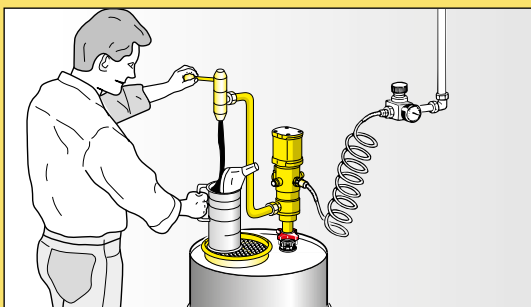
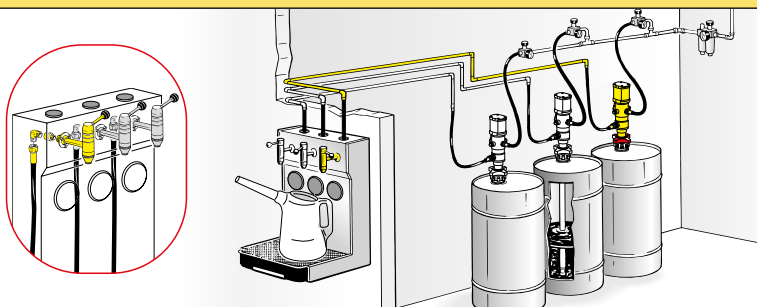
#### OVERALL DIMENSIONS inches



■ P/N 26094-55

■ P/N 35567-55

#### TYPE OF INSTALLATIONS



# OIL ACCESSORIES

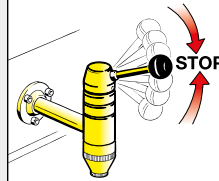
## P/N 37692-55

Double valve tap with antisplash filter for oil bar, with connection unions.

The valve guarantees maximum delivery while preventing sprays caused by possible air bubbles in the system. Closing is automatic upon releasing the lever.

**Packaging - Weight**

No. 1 0,12 ft<sup>3</sup> lb 3.2



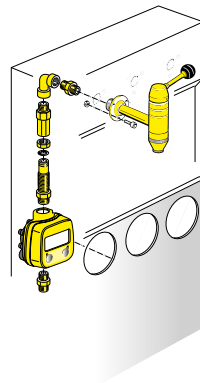
## P/N 37830-55

Digital electronic-counter kit equipped with:

- P/N 37780-55 electronic meter
- connection unions

**Packaging - Weight**

No. 1 0.27 ft<sup>3</sup> lb 3.3



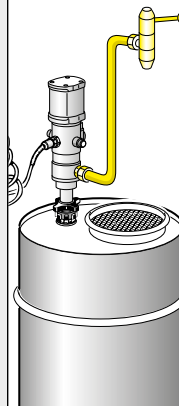
## P/N 37683-55

Oil tap with connection to pump, equipped with:

- tap for oil bar
- tap/pump connection hose

**Packaging - Weight**

No. 1 0.27 ft<sup>3</sup> lb 4.4

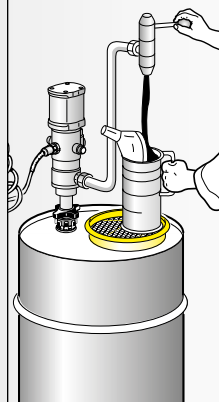


## P/N 37699-55

Drip-catcher tray

**Packaging - Weight**

No. 1 0.5 ft<sup>3</sup> lb 6



# OIL ACCESSORIES

## P/N 38046-55

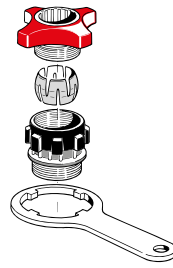
Bung adapter  $\varnothing$  1.26", with double body for pumps with suction tube, series 200

## P/N 33434-55

Bung adapter  $\varnothing$  1.34", with double body for pumps with suction tube, series 238

## P/N 38042-55

Bung adapter  $\varnothing$  1.65", with double body for pumps with suction tube, series 238



## P/N 38051-55

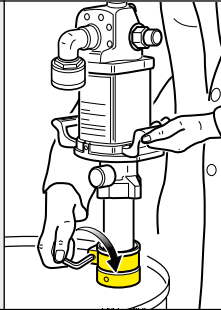
Bung adapter  $\varnothing$  1.97", for pumps with suction tube, series 200

## P/N 10/14-55

Bung adapter  $\varnothing$  1.77" for industrial pumps with suction tube, series 312 and 412

## P/N 10/15-55

Bung adapter  $\varnothing$  2.08" for industrial pumps with suction tube, series 312 and 412, suitable for standard 2" opening

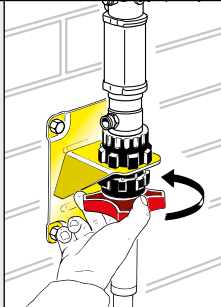


## P/N 38047-55

Wall bracket  $\varnothing$  1.26" with clamping system with double body for wall-mounting of pumps, series 200

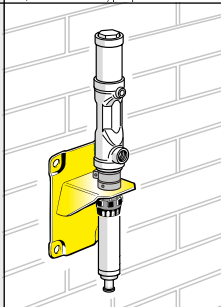
## P/N 38043-55

Wall bracket  $\varnothing$  1.65" with clamping system with double body for wall-mounting of pumps, series 238



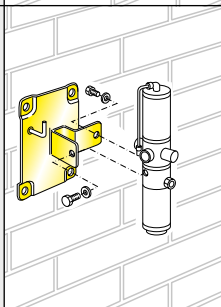
## P/N 38052-55

Wall bracket  $\varnothing$  1.97" with clamping system with screw for wall-mounting of pumps, series 200



## P/N 33115-55

Wall bracket in steel for wall-mounting of transfer pumps, series 238

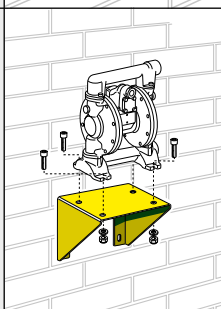


## P/N 33590-55

Wall bracket in painted steel for wall-mounting of diaphragm pumps 1/2" - 3/4"

## P/N 33591-55

Wall bracket in painted steel for wall-mounting of diaphragm pumps 1"

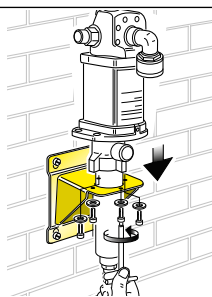




# OIL ACCESSORIES

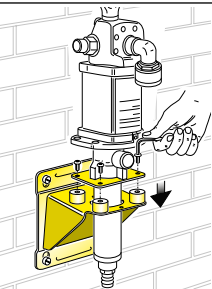
## P/N 10/10-55

Wall bracket in painted steel for wall-mounting of integral and flanged industrial pumps, series 312 and 412



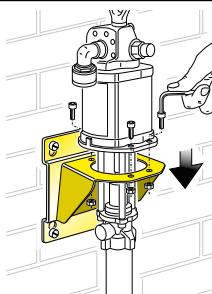
## P/N 10/11-55

Wall bracket in painted steel with dampers for wall-mounting of integral and flanged industrial pumps, series 312 and 412



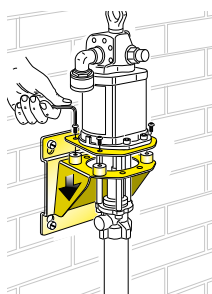
## P/N 10/12-55

Wall bracket in painted steel for wall-mounting of divorced industrial pumps, series 312 and 412



## P/N 10/13-55

Wall bracket in painted steel with dampers for wall-mounting of divorced industrial pumps, series 312 and 412

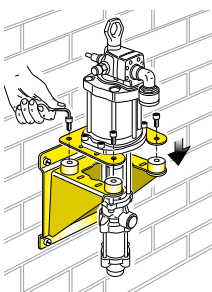


## P/N 10/17-55

Wall bracket in painted steel with dampers for wall-mounting of flanged industrial pumps, series 600 and 700

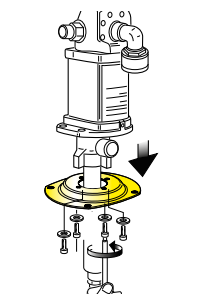
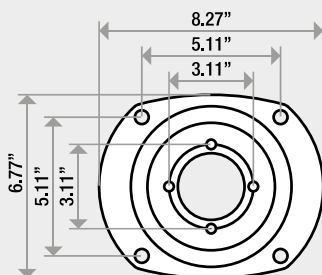
## P/N 10/18-55

Wall bracket in painted steel with dampers for wall-mounting of divorced industrial pumps, with suction tube  $\varnothing 3.94"$ , series 312 and 412



## P/N 10/09-55

Adapter for integral and flanged pumps series 312 e 412, for application with other brackets



# OIL ACCESSORIES

## P/N 33126-55

Female quick connector, thread 3/4" NPT (f) - high pressure 3600 psi

## P/N 33127-55

Male quick connector, thread 3/4" NPT (f) - high pressure 3600 psi



P/N 33126-55

P/N 33127-55

Articles not manufactured by RAASM

## P/N 38091-55

Check valve with connection for the flexible tube 1-1/4" - 1" NPT (f) thread to apply to the tank discharge tap



## NIPPLES

- P/N 111414-55 Nipple 1/4" NPTF (m) x 1/4" NPTF (m)
- P/N 111438-55 Nipple 1/4" NPTF (m) x 3/8" NPTF (m)
- P/N 113838-55 Nipple 3/8" NPTF (m) x 3/8" NPTF (m)
- P/N 111212-55 Nipple 1/2" NPTF (m) x 1/2" NPTF (m)
- P/N 111234-55 Nipple 1/2" NPTF (m) x 3/4" NPTF (m)
- P/N 113434-55 Nipple 3/4" NPTF (m) x 3/4" NPTF (m)
- P/N 113401-55 Nipple 3/4" NPTF (m) x 1" NPTF (m)
- P/N 110101-55 Nipple 1" NPTF (m) x 1" NPTF (m)



## ADAPTERS

- P/N 121438-55 Adapter 1/4" NPTF (m) x 3/8" NPTF (f)
- P/N 123814-55 Adapter 3/8" NPTF (m) x 1/4" NPTF (f)
- P/N 121234-55 Adapter 1/2" NPTF (m) x 3/4" NPTF (f)
- P/N 123412-55 Adapter 3/4" NPTF (m) x 1/2" NPTF (f)
- P/N 123401-55 Adapter 3/4" NPTF (m) x 1" NPTF (f)

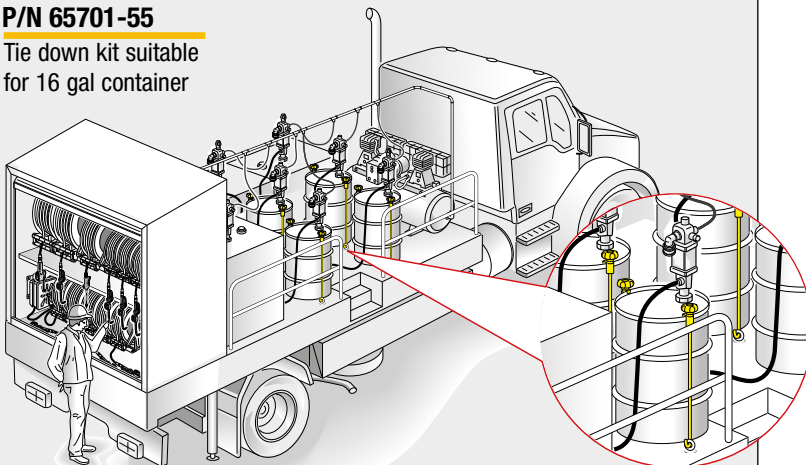


## P/N 65702-55

Tie down kit suitable for 55 gal container

## P/N 65701-55

Tie down kit suitable for 16 gal container



Note: the drum is not part of the kit

# OIL ACCESSORIES

The 4-way evacuation valve is used for extraction and discharge of waste oil, fluid hydraulic gear, engine oil and antifreeze

## P/N 38130-55

Evacuation valve with 3/4" NPT (f) connection

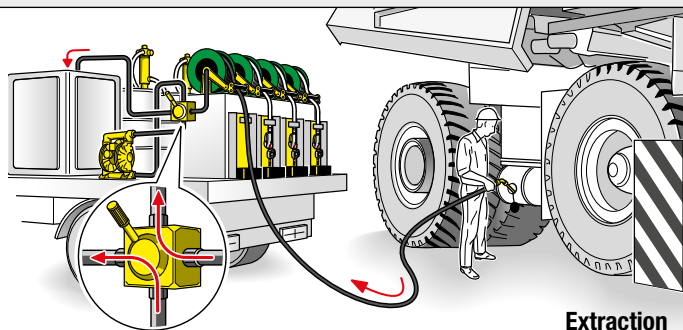
## P/N 38131-55

Evacuation valve with 1" NPT (f) connection

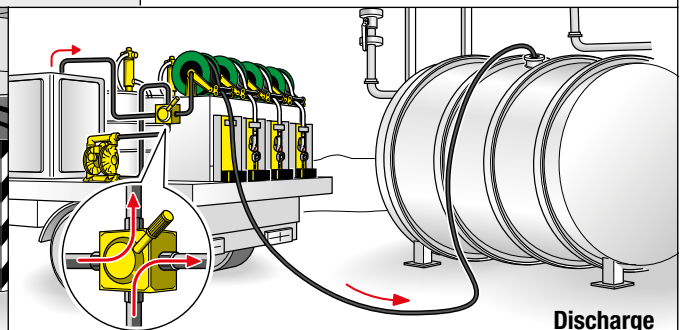
## P/N 38132-55

Evacuation valve with 1-1/2" NPT (f) connection

P/N	Seals	Connection	Dimensions	Pressure	Weight
38130-55	Viton®	3/4" NPT (f)	4"x 4"x 3"	200 psi	7 lb
38131-55	Viton®	1" NPT (f)	4"x 4"x 3"	200 psi	7 lb
38132-55	Viton®	1-1/2" NPT (f)	4"x 4"x 3"	200 psi	7 lb



Extraction



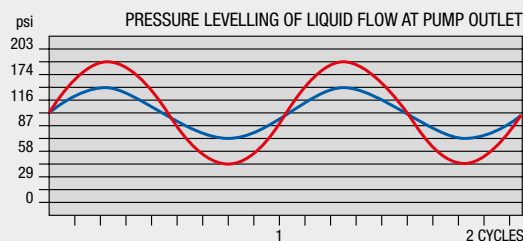
Discharge

## P/N 38097-55

Flow regulator chamber 3/4" NPT (f/f) equipped with:

- one-way valve eliminates sudden pressure changes, ensuring a regular flow
- max pressure 1450 psi - suitable for R 1:1 - 3:1 - 5:1 pumps

### Pressure trend of oil pump outlet



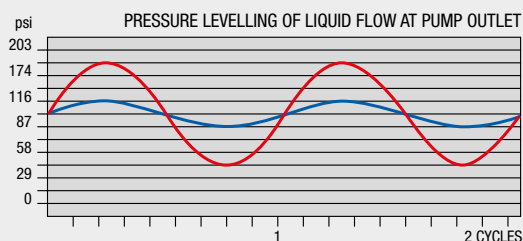
P/N 38097-55

## P/N 38098-55

Flow regulator chamber 3/4" NPT (f/f) with air tank equipped with:

- one-way valve eliminates sudden pressure changes, ensuring a regular flow
- max pressure 1450 psi - suitable for pumps till R 20:1

### Pressure trend of oil pump outlet



P/N 38098-55

# OIL ACCESSORIES

## **P/N 38210-55**

Ball valve 1/2" NPT (f/f) total passage - max. pressure 1000 psi

## **P/N 38211-55**

Ball valve 1" NPT (f/f) total passage - max. pressure 1000 psi



**P/N 38210-55**

**P/N 38211-55**

Articles not manufactured by RAASM

## **P/N 38095-55**

"Y" filter in line - 1/2" NPT (f/f) for fitting on the outlet of pumps for oil and allied products

## **P/N 38096-55**

"Y" filter in line - 1" NPT (f/f) for fitting on the outlet of pumps for oil and allied products



Articles not manufactured by RAASM

## **P/N 38099-55**

Pressure relief valve - 1/2" NPT (f/f) - calibration 70 - 720 psi

## **P/N 38100-55**

Pressure relief valve - 3/4" NPT (f/f) - calibration 70 - 720 psi



Articles not manufactured by RAASM

## **P/N 65160-55**

Drum cover ø 23.7" for drums 55 gal (400 lb)  
- 2" fixing union arranged for pump clamping ring

## **P/N 65138-55**

Drum cover ø 15.2" for drums 16 gal (120 lb)  
- 2" fixing union arranged for pump clamping ring

## **P/N 65142-55**

Drum cover ø 16.55" for drums external ø 15" - 17"  
- 2" fixing union arranged for pump clamping ring



## **P/N 38080-55**

Hose connection ø 1-1/4" - connection 3/4" NPT (m)

## **P/N 38081-55**

Hose connection ø 1-1/4" - connection 1" NPT (m)

## **P/N 38082-55**

Hose connection ø 1-1/4" - connection 1-1/4" NPT (m)

## **P/N 38083-55**

AISI 304 stainless steel hose connection ø 3/4" - connection 1" NPT (m)





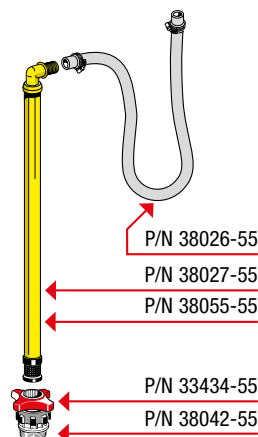
# OIL ACCESSORIES

## **P/N 38056-55** (55 gal) equipped with:

- P/N 38026-55 flexible suction tube  $\varnothing$  1-1/4" - length 7'
- P/N 38027-55 suction tube  $\varnothing$  1.65" - length 37" with foot valve complete with filter
- P/N 38042-55 bung adapter  $\varnothing$  1.65"

## **P/N 38057-55** (275 gal IBC tank) equipped with:

- P/N 38026-55 flexible suction tube  $\varnothing$  1-1/4" - length 7'
- P/N 38055-55 suction tube  $\varnothing$  1.34" - length 50" with foot valve complete with filter
- P/N 33434-55 bung adapter  $\varnothing$  1.34"

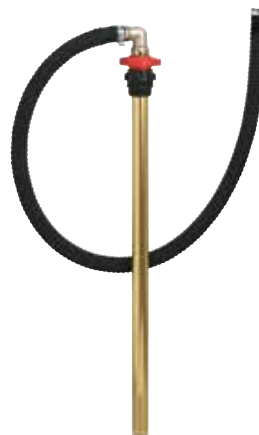
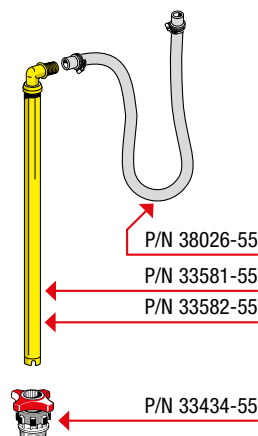


## **P/N 33583-55** equipped with:

- P/N 38026-55 flexible suction tube  $\varnothing$  1-1/4" - length 7'
- P/N 33581-55 suction tube  $\varnothing$  1.34" - length 37" without foot valve
- P/N 33434-55 bung adapter  $\varnothing$  1.34"

## **P/N 33585-55** equipped with:

- P/N 38026-55 flexible suction tube  $\varnothing$  1-1/4" - length 7'
- P/N 33582-55 suction tube  $\varnothing$  1.34" - length 49" without foot valve
- P/N 33434-55 bung adapter  $\varnothing$  1.34"

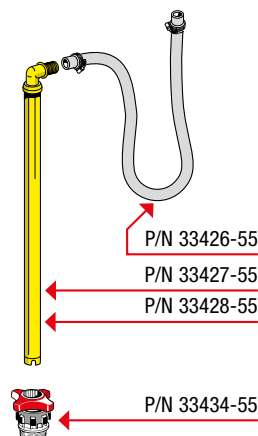


## **P/N 33424-55** equipped with:

- P/N 33426-55 flexible suction tube  $\varnothing$  3/4" - length 7'
- P/N 33427-55 stainless steel suction tube  $\varnothing$  1.34" - length 37" with foot valve without filter
- P/N 33434-55 bung adapter  $\varnothing$  1.34"

## **P/N 33425-55** equipped with:

- P/N 33426-55 flexible suction tube  $\varnothing$  3/4" - length 7'
- P/N 33428-55 stainless steel suction tube  $\varnothing$  1.34" - length 50" with foot valve without filter
- P/N 33434-55 bung adapter  $\varnothing$  1.34"



# OIL ACCESSORIES

## P/N 38092-55

Top connector

- 1" BSP (f) x 1" NPT (f) thread

allows to connect pump 1" (m) thread with extension 1" (m) thread



## P/N 10/21-55

Extension  $\varnothing$  1.34" - thread 1" NPT (m) x 1" NPT (m) - 18"

- suitable for modular and extendable pumps with 1" NPT (f) connection

## P/N 10/22-55

Extension  $\varnothing$  1.34" - thread 1" NPT (m) x 1" NPT (m) - 26"

- suitable for modular and extendable pumps with 1" NPT (f) connection

## P/N 10/23-55

Extension  $\varnothing$  1.34" - thread 1" NPT (m) x 1" NPT (m) - 38"

- suitable for modular and extendable pumps with 1" NPT (f) connection

## P/N 10/24-55

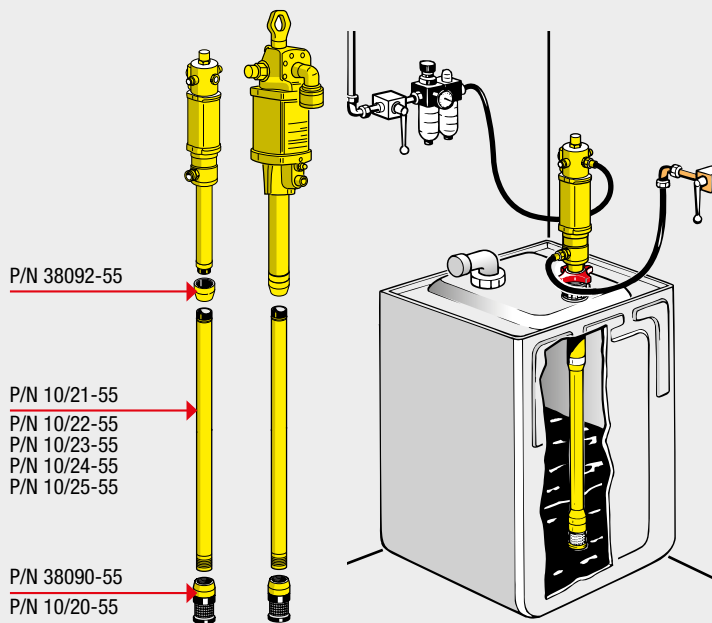
Extension  $\varnothing$  1.34" - thread 1" NPT (m) x 1" NPT (m) - 50"

- suitable for modular and extendable pumps with 1" NPT (f) connection

## P/N 10/25-55

Extension  $\varnothing$  1.34" - thread 1" NPT (m) x 1" NPT (m) - 58"

- suitable for modular and extendable pumps with 1" NPT (f) connection



P/N 10/21-55

P/N 10/22-55

P/N 10/23-55

P/N 10/24-55

P/N 10/25-55

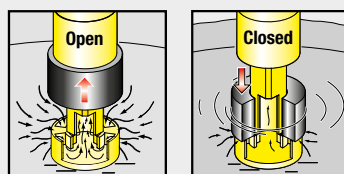
## P/N 38090-55

Foot valve with air eliminator

- 1" NPT (f) thread

suitable to fit  $\varnothing$  1.34"

extension 1" NPT (m) thread



P/N 38090-55



## P/N 10/20-55

Foot valve with filter - 1" NPT (f) thread suitable to fit  $\varnothing$  1.34"

extension 1" NPT (m) thread - height 3.5"

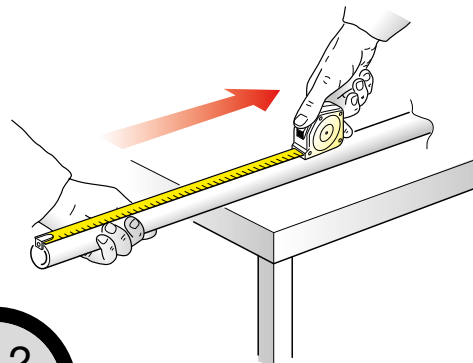
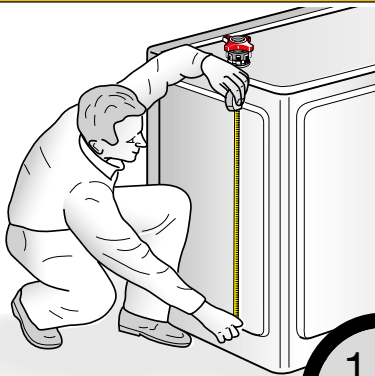
P/N 10/20-55



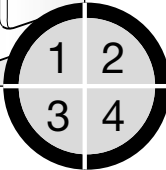
# EXTENDABLE PUMP SUCTION TUBE 1"

## HOW TO OBTAIN A PUMP WITH CUSTOMIZED SUCTION TUBE:

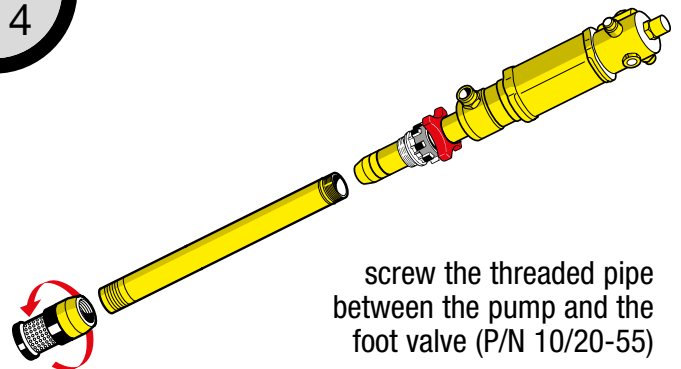
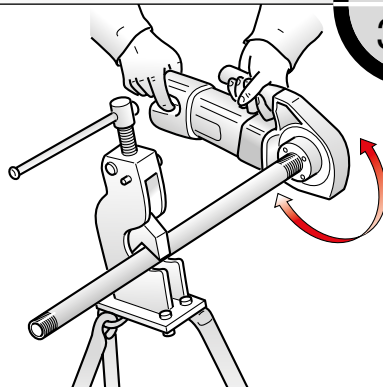
obtain a water pipe  
(normally available  
on the market)  $\varnothing$  1"  
and thickness 0.10"



cut the length  
suitable for the  
container



thread  
the 2 ends  
with 1" NPT (m)



screw the threaded pipe  
between the pump and the  
foot valve (P/N 10/20-55)

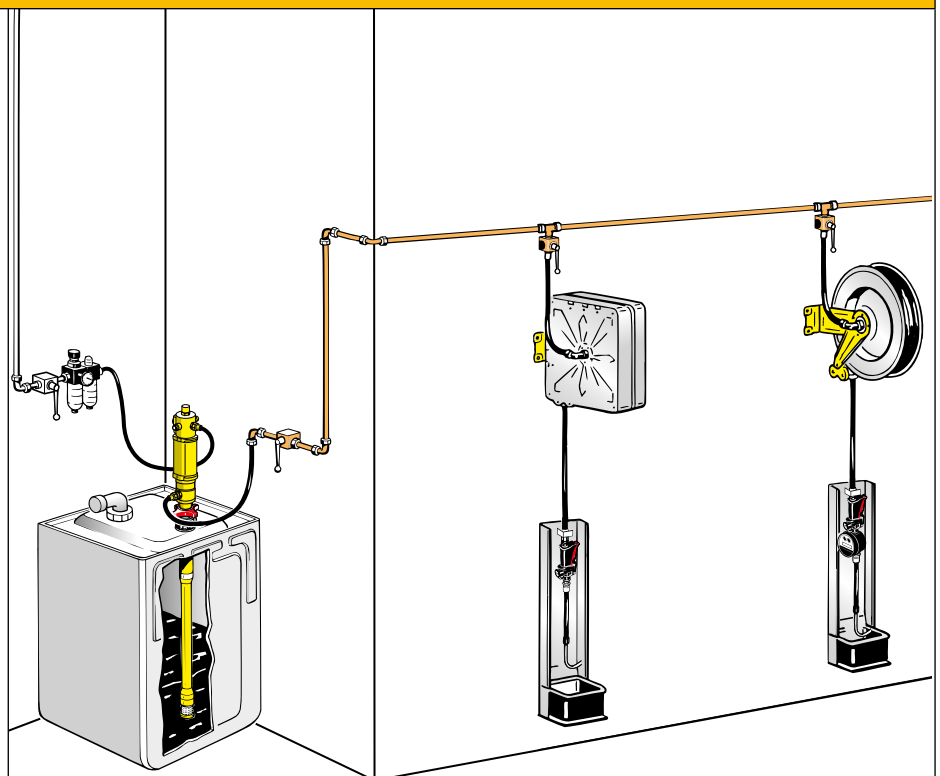
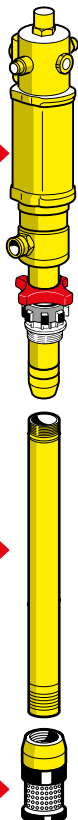
■ Apply a sealant to prevent air infiltration in the pumping phase or oil leaks during stops

## HOW TO OBTAIN A PUMP WITH CUSTOMIZED SUCTION TUBE:

P/N 26091-55  
P/N 33061-55  
P/N 35061-55  
P/N 35561-55  
P/N 36161-55

Customized  
suction tube 1" NPT (m)

Foot valve  
P/N 10/20-55  
P/N 38090-55



# OIL ACCESSORIES

## P/N 37801-55

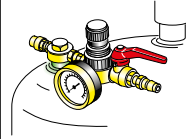
Pressure regulator with pressure gauge - connections 1/4" NPT (m/f) applied on a pump or on the tank of a suction/drain, for regulating the compressed air inlet pressure

## P/N 37818-55

Pressure regulator with pressure gauge - connections 3/8" NPT (m/f) applied on a pump for regulating the compressed air inlet pressure

## P/N 37814-55

Pressure regulator with pressure gauge - connections 1/2" NPT (m/f) applied on a pump for regulating the compressed air inlet pressure



Articles not manufactured by RAASM

## P/N 37810-55

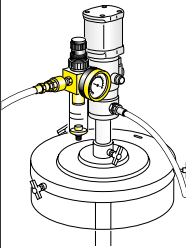
Pressure regulator with condensate discharge filter and pressure gauge - connections 1/4" NPT (f/f) for application at the start of the compressed air line feeding the pump

## P/N 37819-55

Pressure regulator with condensate discharge filter and pressure gauge - connections 3/8" NPT (f/f) for application at the start of the compressed air line feeding the pump

## P/N 37815-55

Pressure regulator with condensate discharge filter and pressure gauge - connections 1/2" NPT (f/f) for application at the start of the compressed air line feeding the pump



Articles not manufactured by RAASM

## P/N 37811-55

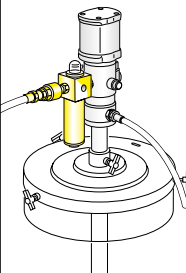
Air lubricator - connections 1/4" NPT (f/f) its application guarantees better efficiency of the pump over time

## P/N 37820-55

Air lubricator - connections 3/8" NPT (f/f) its application guarantees better efficiency of the pump over time

## P/N 37816-55

Air lubricator - connections 1/2" NPT (f/f) its application guarantees better efficiency of the pump over time



Articles not manufactured by RAASM

## P/N 37812-55

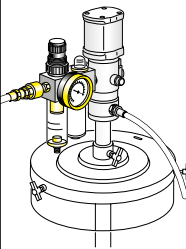
Pressure regulator with condensate discharge filter, air lubricator and pressure gauge - connections 1/4" NPT (f/f) the system guarantees that the pump feed air is free of condensate and is lubricated

## P/N 37821-55

Pressure regulator same as P/N 37812-55 but with connections 3/8" NPT (f/f)

## P/N 37817-55

Pressure regulator same as P/N 37812-55 but with connections 1/2" NPT (f/f)



Articles not manufactured by RAASM





# MANUAL PUMPS FOR OIL AND SIMILAR

## NBR seals      NBR seals      VITON® seals

### Manual pump for oil.

The telescopic suction tube enables direct application on containers of different capacities. Suitable for delivering low/high-viscosity oil and antifreeze (only P/N 31200-55).



Do not use flammable or corrosive liquids



### P/N 30200-55

**Double-acting manual pump** for drums 16 - 55 gal complete with bung adapter for drum application

<b>Suitable for drums</b>	16 - 55 gal
<b>Delivery hose length</b>	7'
<b>Quantity deliverable with a complete cycle of lever</b>	0.06 gal
<b>Max. density oil deliverable</b>	SAE 240
<b>Packaging - Weight</b>	No. 1 0.6 ft³  lb 10

### P/N 30207-55

**Double-acting manual pump** for drums 5 gal complete with drum cover ø 12" for drum application

5 gal
7'
0.06 gal
SAE 240
No. 1 3.2 ft³  lb 17

### P/N 31200-55

**Single-acting manual pump** for drums 16 - 55 gal with 7' flexible delivery hose

16 - 55 gal
7'
0.07 gal
SAE 130
No. 1 0.6 ft³  lb 9

### DETAILS AND ADVANTAGES

Single-action occurs when the pumping piston delivers the fluid only in the pumping lever downstroke



Down



Double-action occurs when the pumping piston delivers the fluid in its upstroke and downstroke. Double-action delivers the fluid with a continuous and constant flow



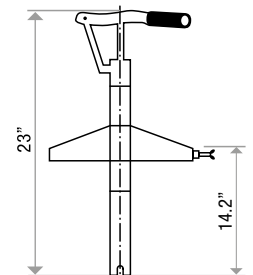
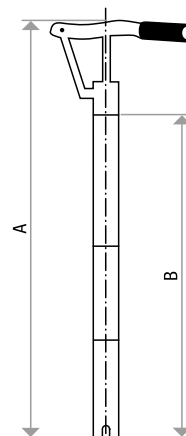
Up



Down



### OVERALL DIMENSIONS inches



■ P/N 30207-55

P/N	A	B
31200-55	33.8"- 47.2"	27.5"- 40.9"
30200-55	33.8"- 47.2"	27.5"- 40.9"



# MANUAL OIL DISPENSERS

## 16 gal

## 6.4 gal

**Double-acting manual pump with NBR seals for oil.** The telescopic suction tube enables direct application on containers of different capacities. Suitable for delivering low/high-viscosity oil.



Do not use flammable or corrosive liquids



### P/N 30203-55

**Double-acting manual pump** for drums 16 gal complete with:

- drum cover ø 15" for drum application
- digital electronic counter

### P/N 30204-55

**Double-acting manual pump** for drums 16 gal complete with:

- bung adapter for drum application
- drum cover ø 15"

### P/N 32024-55

**Manual oil dispenser** with wheel-mounted 6.4 gal tank, equipped with:

- level gauge
- P/N 24891-55 antisplash funnel

Tank capacity	16 gal
Electronic meter	32713-55
Delivery hose length	7'
Quantity deliverable with a complete cycle of lever	0.06 gal
Max. density oil deliverable	SAE 240
Packaging - Weight	No. 1 1.2 ft³  lb 19

16 gal
-
7'
0.06 gal
SAE 240
No. 1 1.2 ft³  lb 17

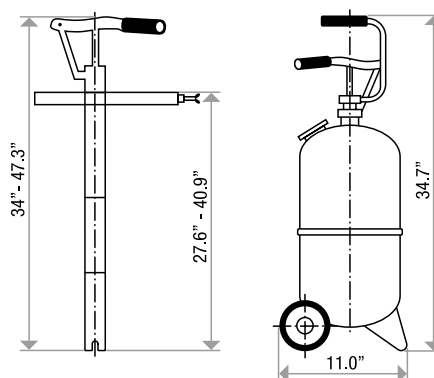
6.4 gal
-
7'
0.06 gal
SAE 240
No. 1 3.2 ft³  lb 30

#### LEVER HOOKING VARIATION TABLE

Hooking	Pumping shaft stroke	Compression ratio	Delivery capacity with complete cycle	Oil viscosity
3	5"	1:2.2	0.07 gal	SAE W 80/90
2	4"	1:3.6	0.05 gal	SAE W 85/140
1	2"	1:6.9	0.03 gal	SAE 240

Note: the position of lever pivot can be varied (3 hookings) to adapt the pumping force to the viscosity of the oil used

#### OVERALL DIMENSIONS inches



■ P/N 30203-55 30204-55

■ P/N 32024-55




# AIR-OPERATED OIL DISPENSERS

## 6.4 gal

## 17.2 gal

### Air-operated oil dispensers suitable for high-viscosity oil.

Filled with oil to 4/5 their capacity and pressurized to 90 - 120 psi, they work independently without requiring connection to the compressed air system. The air-operated oil dispensers are ideal for filling or topping-up engine, gearbox, differential, hydraulic power pack, reduction unit oil, etc.

 Do not use flammable or corrosive liquids



#### P/N 33024-55

**Air-operated oil dispenser** with wheel-mounted 6.4 gal tank equipped with:

- level gauge
- delivery handle with flexible terminal
- P/N 24891-55 antispash funnel

#### P/N 33025-55

**Air-operated oil dispenser** with wheel-mounted 6.4 gal tank equipped with:

- level gauge
- delivery handle with flexible extension suitable for ATF (Mercedes connections) and electronic meter (P/N 37780-55)
- P/N 24891-55 funnel

#### P/N 33065-55

**Air-operated oil dispenser** with wheel-mounted 17.2 gal tank equipped with:



- level gauge
- P/N 37738-55 delivery control handle
- P/N 24891-55 funnel



#### P/N 33066-55



**Air-operated oil dispenser** with wheel-mounted 17.2 gal tank equipped with:



- level gauge
- P/N 37739-55 delivery control handle with flexible extension
- P/N 24891-55 funnel

#### Packaging - Weight

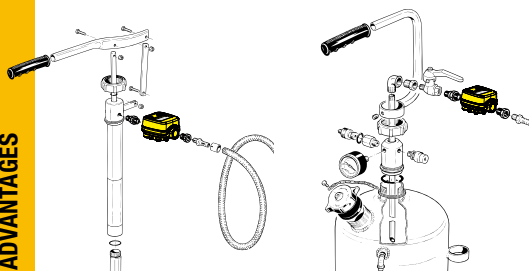
 No. 1 3.0 ft<sup>3</sup>  lb 30

 No. 1 3.0 ft<sup>3</sup>  lb 32

 No. 1 6.5 ft<sup>3</sup>  lb 54

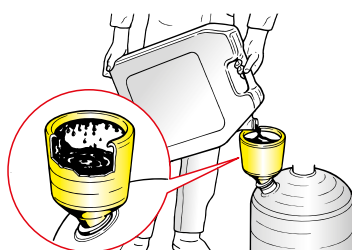
 No. 1 6.5 ft<sup>3</sup>  lb 57

#### DETAILS AND ADVANTAGES



#### P/N 32713-55

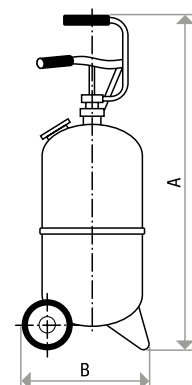
Digital meter with adapters suitable for manual pump or air operated oil dispenser



#### P/N 24891-55

Antispash funnel. With antispash rim to prevent the liquid from spilling out when filling the tank

#### OVERALL DIMENSIONS inches



P/N	A	B
33024-55 - 33025-55	33.8"	11.0"
33065-55 - 33066-55	33.9"	23.6"



# GREASE PUMPS





# INDEX



**50:1 Pumps - Series 238 and kits** page **72**



**65:1 Pumps - Series 234** page **76**



**Industrial grease pumps** page **78**



**Accessories** page **88**



**Pump elevators and rams** page **98**



**Manual grease pumps** page **104**



# Series 238 - 50:1 - 3.3 lb/min

**Series 238**  
**air-operated pumps**  
**for short/long distance**  
**grease distribution**, for  
 high pressure greasing.  
 Ideal for dispensing  
 medium/high-viscosity  
 grease. Suitable for  
 mobile installations and  
 centralized fixed systems.



**P/N 62141-55**

**P/N 62148-55**

**P/N 62174-55**

**P/N 62195-55**

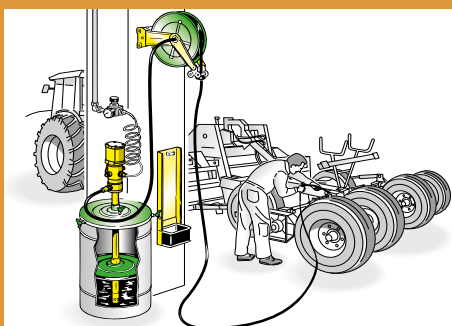
Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	136
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	26 cfm
Noise level	81 dB
Max. deliverable grease viscosity	NLGI 2
Suitable for drums	35 lb
Suction tube length	16"
Suction tube external diameter	ø 1.18"
Type of installations	for small drum
Packaging - Weight	No. 1 0.35 ft³ lb 11

Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	136
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	26 cfm
Noise level	81 dB
Max. deliverable grease viscosity	NLGI 2
Suitable for drums	35 lb
Suction tube length	19"
Suction tube external diameter	ø 1.18"
Type of installations	for small drum
Packaging - Weight	No. 1 0.35 ft³ lb 11

Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	136
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	26 cfm
Noise level	81 dB
Max. deliverable grease viscosity	NLGI 2
Suitable for drums	120 lb
Suction tube length	29"
Suction tube external diameter	ø 1.18"
Type of installations	suitable for drum 120 lb
Packaging - Weight	No. 1 0.52 ft³ lb 14

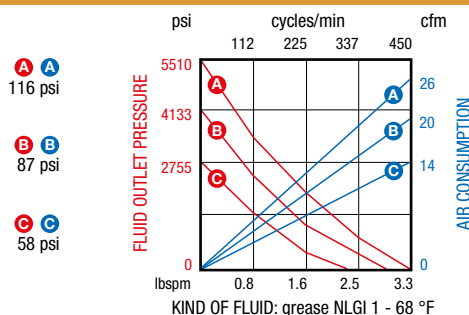
Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	136
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	26 cfm
Noise level	81 dB
Max. deliverable grease viscosity	NLGI 2
Suitable for drums	400 lb
Suction tube length	37"
Suction tube external diameter	ø 1.18"
Type of installations	suitable for drum 400 lb
Packaging - Weight	No. 1 0.65 ft³ lb 16

## USES



The pump suction tube is made with a combination of special, heat treated steel, without the use of seals in order to eliminate any problem of wear.

## PUMP PERFORMANCE





# MOBILE DISPENSER KITS - 400 LB

## Mobile grease Kits.

The ideal combination for dispensing grease in any workplace. The very easy to handle dolly is equipped with a drum (400 lb) clamping device, adjustable side support for hooking accessories, and wheel with brake. The mobile kit comes with a handy hose reel with 40' of hose. By request the mobile unit can be equipped with other hose reels (please contact the technical dept for more info).



## P/N 64001-55

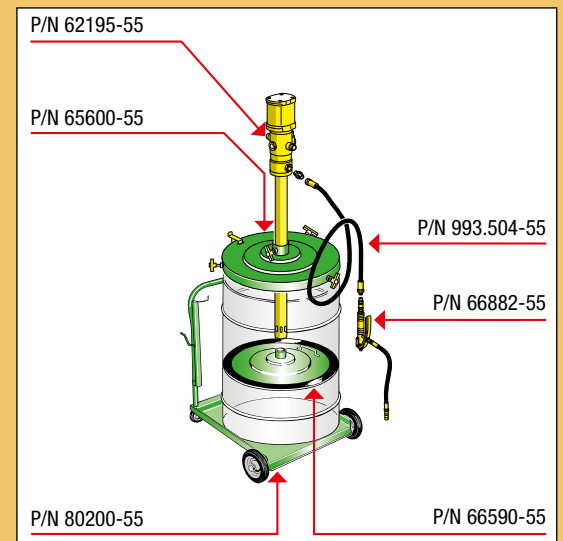
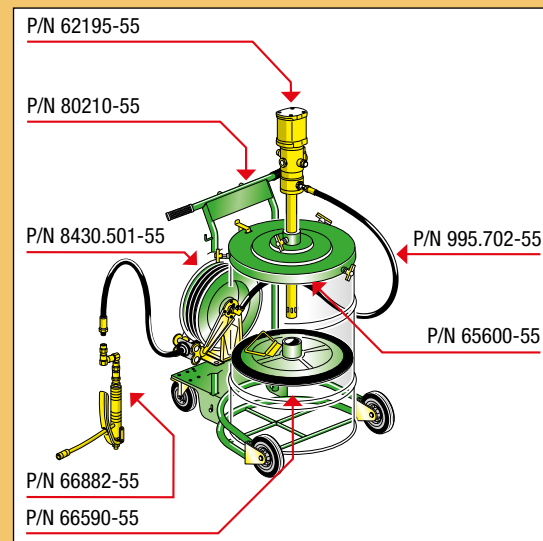
Mobile grease dispenser unit with hose reel, for drums of 400 lb

Pump 50:1	62195-55
Heavy duty dolly	80210-55
Hose reel 1/4" - 40'	8430.501-55
Handle with triple swivel joint	66882-55
Hose	3/8" - 7' (995.702-55)
Drum cover ø 24"	65600-55
Follower plate ø 23"	66590-55
Packaging - Weight	No. 1 16.7 ft³  lb 177

## P/N 64070-55

Mobile grease dispenser unit for drums of 400 lb

62195-55
80200-55
-
66882-55
1/4" - 13' (993.504-55)
65600-55
66590-55
No. 1 4.27 ft³  lb 91.5





# MOBILE DISPENSER KITS 35 LB - 120 LB

## Dolly-mounted grease kit.

The ideal combination for dispensing grease in any workplace. The compact dolly (P/N 80040-55) has 2 fixed wheels that make it very easy to handle. It is equipped with a pump support and is suitable for small-medium-size containers.



ø 13"-15"

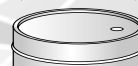


**P/N 64039-55**

**Dolly-mounted grease dispenser kit,**  
for drums 120 lb, with external ø 13" - 15"



ø 10"-12"

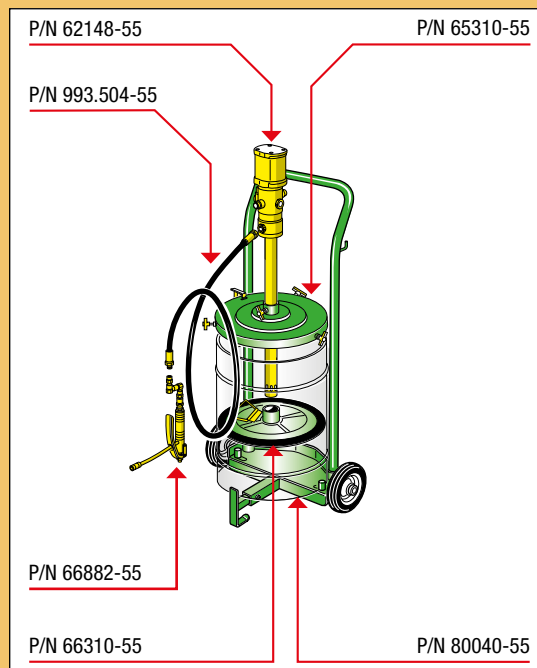
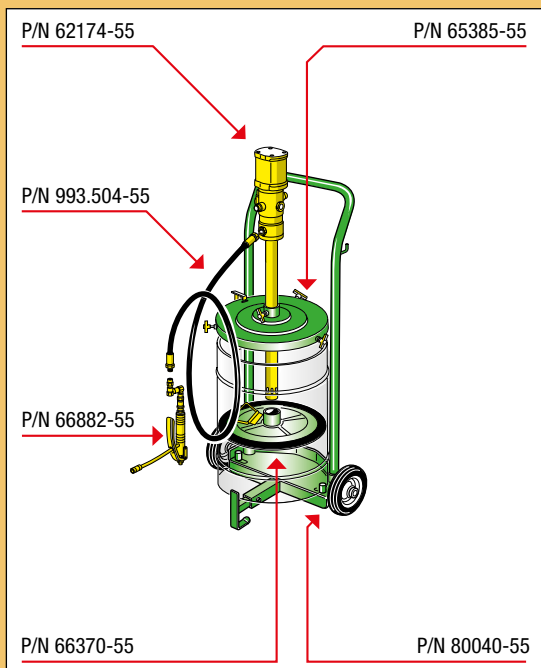


**P/N 64033/40-55**

**Dolly-mounted grease dispenser kit,**  
for drums 35 lb, with external ø 10"-12"

<b>Pump 50:1</b>	62174-55
<b>Dolly</b>	80040-55
<b>Handle with triple swivel joint</b>	66882-55
<b>Hose 1/4" - 13'</b>	993.504-55
<b>Drum cover</b>	65385-55 (ø 15.2")
<b>Follower plate</b>	66370-55 (ø 14.6")
<b>Packaging - Weight</b>	No. 1 4.7 ft <sup>3</sup> 1b 46

62148-55
80040-55
66882-55
993.504-55
65310-55 (ø 12.2")
66310-55 (ø 12.2")
No. 1 5.0 ft <sup>3</sup> 1b 40

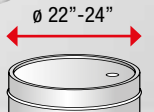
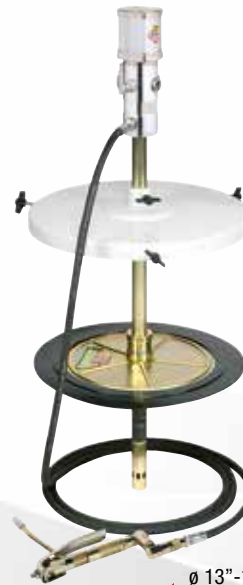
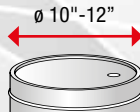






# DISPENSER KITS 35 LB - 120 LB - 400 LB

**Dispenser kit suitable for 35 - 120 - 400 lb drums.** The ideal combination for dispensing grease in any workplace. The entirely galvanized dollies are also suitable for carrying 35 lb containers. Their compact size makes them very easy to handle and their modularity enables compact packing for easy transport and storage.



## P/N 64031-55

**Portable grease dispenser kit,**  
for drums 35 lb,  
with external  $\varnothing$  10"-12"

<b>Pump 50:1</b>	62148-55
<b>Handle with triple swivel joint</b>	66882-55
<b>Hose 1/4" - 13'</b>	993.504-55
<b>Kit carrying handle</b>	66599-55
<b>Drum cover</b>	65310-55 ( $\varnothing$ 12.2")
<b>Follower plate</b>	66310-55 ( $\varnothing$ 12.2")
<b>Packaging - Weight</b>	No. 1 1.2 ft <sup>3</sup> 1b 25

## P/N 64143-55

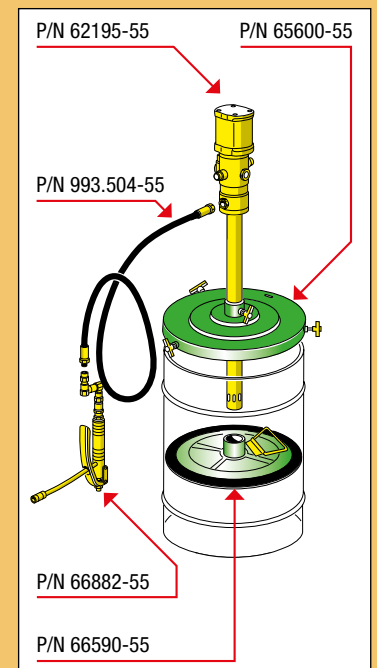
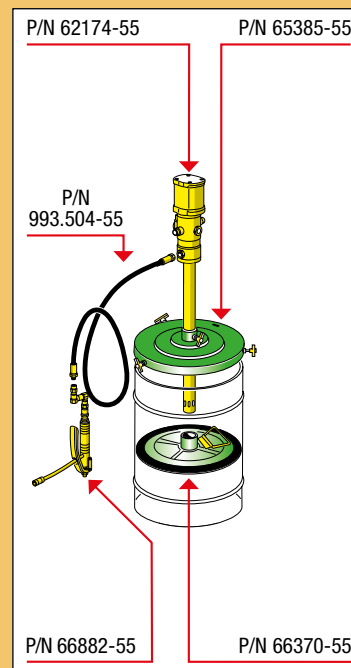
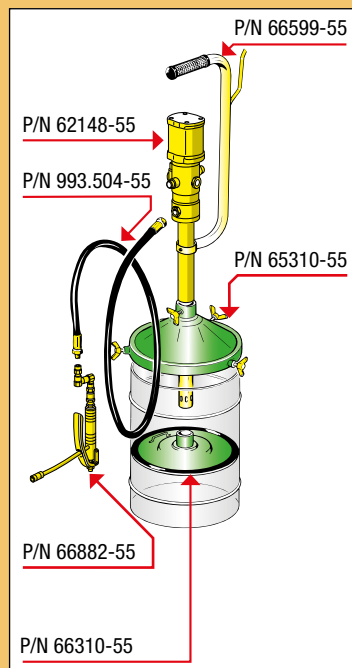
**Grease dispenser kit with pump**  
for drums 120 lb,  
with external  $\varnothing$  13"-15"

62174-55
66882-55
993.504-55
-
65385-55 ( $\varnothing$ 15.2")
66370-55 ( $\varnothing$ 14.6")
No. 1 1.4 ft <sup>3</sup> 1b 37

## P/N 64194-55

**Grease dispenser kit with pump**  
for drums 400 lb,  
with external  $\varnothing$  22" - 24"

62195-55
66882-55
993.504-55
-
65600-55 ( $\varnothing$ 23.6")
66590-55 ( $\varnothing$ 23.0")
No. 1 2.6 ft <sup>3</sup> 1b 46





# Series 234 - 65:1 - 4.2 lb/min

**Series 234**  
**air-operated pumps**  
**for long distance**  
**grease distribution,**  
 for high pressure  
 greasing. Ideal for  
 dispensing medium/  
 high-viscosity grease.  
 Recommended when  
 delivery of a greater  
 quantity of grease with  
 high pressure is required.



**P/N 63041-55**

**P/N 63048-55**

**P/N 63074-55**

**P/N 63095-55**

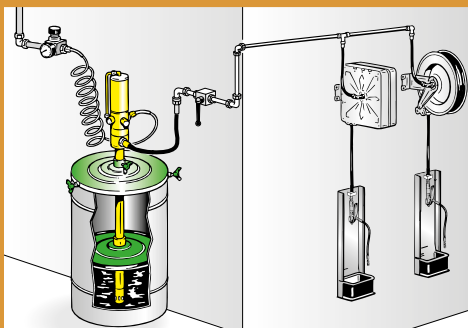
Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	90
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	42 cfm
Noise level	81 dB
Suitable for drums	35 lb
Suction tube length	16"
Suction tube external diameter	ø 1.18"
Type of installations	small drum
Packaging - Weight	No. 1 0.35 ft <sup>3</sup> 13 lb

Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	90
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	42 cfm
Noise level	81 dB
Suitable for drums	35 lb
Suction tube length	19"
Suction tube external diameter	ø 1.18"
Type of installations	small drum
Packaging - Weight	No. 1 0.52 ft <sup>3</sup> 13 lb

Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	90
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	42 cfm
Noise level	81 dB
Suitable for drums	120 lb
Suction tube length	29"
Suction tube external diameter	ø 1.18"
Type of installations	suitable for drum 120 lb
Packaging - Weight	No. 1 0.52 ft <sup>3</sup> 16 lb

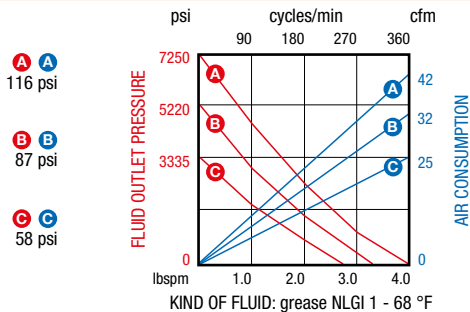
Type of seals	polyurethane
Suction tube upper body	aluminum
Suction tube	carbon steel
Air inlet connection	1/4" NPT (f)
Grease outlet connection	1/4" NPT (f)
Cycles per lb	90
Air working pressure	90 - 120 psi
Max. air consumption 120 psi	42 cfm
Noise level	81 dB
Suitable for drums	400 lb
Suction tube length	37"
Suction tube external diameter	ø 1.18"
Type of installations	suitable for drum 400 lb
Packaging - Weight	No. 1 0.65 ft <sup>3</sup> 18 lb

## USES



The pumps are equipped with a filter at the air inlet and a filter at the bottom of the suction tube grease inlet passage. They have a double valve enabling delivery of the grease in a continuous and constant flow. These devices prevent obstructions and consequent interruptions due to the passage of impurities.

## PUMP PERFORMANCE





# Series 312 - 11:1 - 33 lb/min

**Series 312 industrial air-operated double-acting pumps** suitable for transferring very high viscosity oils and lubricants. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 90C/111-55**

**P/N 91C/111-55**

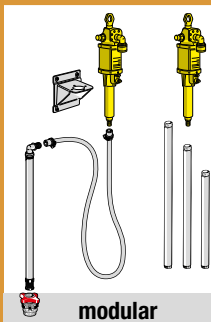
**P/N 92C/111-55**

Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity	NLGI 2
Cycles per lb	7.8
Max. air consumption 120 psi	55 cfm
Suction tube length	10.6"
Suction tube external diameter	1.77"
Type of installations	modular
Packaging - Weight	No. 1 1.8 ft³  lb 26

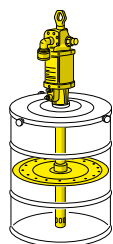
polyurethane
aluminum - carbon steel
carbon steel
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
NLGI 2
7.8
55 cfm
37"
1.77"
suitable for drums 400 lb
No. 1 3.3 ft³  lb 36

polyurethane
aluminum - carbon steel
carbon steel
1/2" NPT (f)
3/4" NPT (f)
90 - 120 psi
80 dB
NLGI 2
7.8
55 cfm
29"
1.77"
suitable for drums 120 lb
No. 1 3.3 ft³  lb 33

## TYPE OF INSTALLATIONS



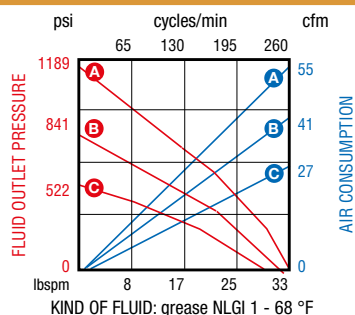
**modular**



**with drum**

## PUMP PERFORMANCE

**A** 116 psi  
**B** 87 psi  
**C** 58 psi





# Series 312 - 11:1 - 33 lb/min

**Series 312 industrial air-operated double-acting pumps** suitable for transferring very high viscosity oils and grease. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



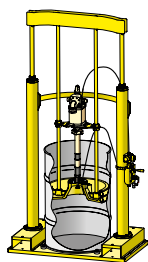
**P/N 90F/111-55**

**P/N 91F/111-55**

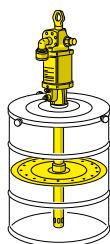
Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity	NLGI 2
Cycles per lb	7.8
Max. air consumption 120 psi	55 cfm
Suction tube length	19"
Suction tube external diameter	1.77"
Type of installations	pump elevator
Packaging - Weight	No. 1 1.58 ft <sup>3</sup> lb 29

Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity	NLGI 2
Cycles per lb	7.8
Max. air consumption 120 psi	55 cfm
Suction tube length	37"
Suction tube external diameter	1.77"
Type of installations	suitable for drums 400 lb
Packaging - Weight	No. 1 2.47 ft <sup>3</sup> lb 37

## TYPE OF INSTALLATIONS



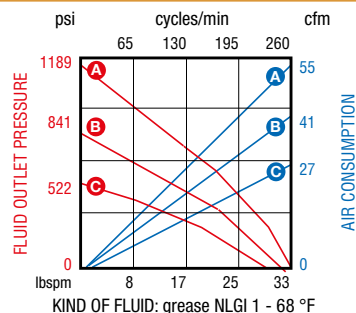
**pump elevator**



**with drum**

## PUMP PERFORMANCE

- A A 116 psi
- B B 87 psi
- C C 58 psi







## Series 412 - 18:1 - 42 lb/min

**Series 412 industrial air-operated double-acting pumps** suitable for transferring very high viscosity oils and grease. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



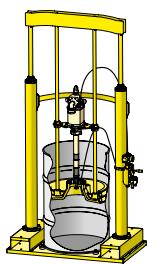
**P/N 115F/181-55**

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air max. pressure	120 psi
Noise level	80 dB
Max. deliverable grease viscosity	NLGI 2
Cycles per lb	4.8
Max. air consumption 120 psi	102 cfm
Suction tube length	19"
Suction tube external diameter	1.77"
Type of installations	pump elevator
Packaging - Weight	No. 1 1.58 ft³  lb 34

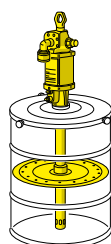
**P/N 116F/181-55**

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	3/4" NPT (f)
Air max. pressure	120 psi
Noise level	80 dB
Max. deliverable grease viscosity	NLGI 2
Cycles per lb	4.8
Max. air consumption 120 psi	102 cfm
Suction tube length	37"
Suction tube external diameter	1.77"
Type of installations	suitable for drums 400 lb
Packaging - Weight	No. 1 2.47 ft³  lb 40

### TYPE OF INSTALLATIONS



**pump elevator**



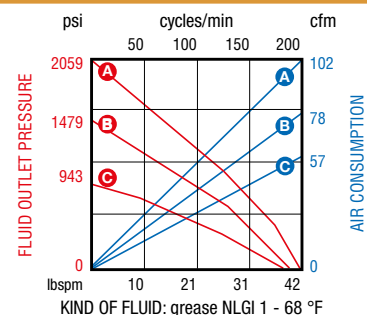
**with drum**

### PUMP PERFORMANCE

**A A**  
116 psi

**B B**  
87 psi

**C C**  
58 psi





# Series 312 - 45:1 - 9.7 lb/min

**Series 312 industrial air-operated double-acting pumps** suitable for transferring very high viscosity grease up to NLGI 3. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 90F/451-55**

**P/N 90FSP/451-55**

**P/N 91F/451-55**

**P/N 92F/451-55**

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20
Max. air consumption 120 psi	63 cfm
Suction tube length	19.7"
Suction tube external diameter	1.77"
Type of installations	tank
Packaging - Weight	No. 1 1.58 ft <sup>3</sup> 35 lb

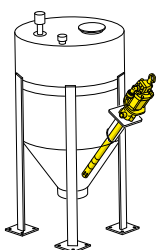
Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20
Max. air consumption 120 psi	63 cfm
Suction tube length	19.7"
Suction tube external diameter	1.77"
Type of installations	pump elevator
Packaging - Weight	No. 1 1.58 ft <sup>3</sup> 35 lb

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20
Max. air consumption 120 psi	63 cfm
Suction tube length	37"
Suction tube external diameter	1.77"
Type of installations	for drums 400 lb
Packaging - Weight	No. 1 2.47 ft <sup>3</sup> 42 lb

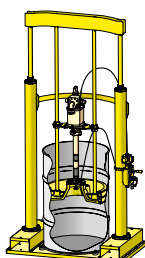
Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20
Max. air consumption 120 psi	63 cfm
Suction tube length	29"
Suction tube external diameter	1.77"
Type of installations	for drums 120 lb
Packaging - Weight	No. 1 2.47 ft <sup>3</sup> 40 lb

\* At minimum working temperature of 59 °F

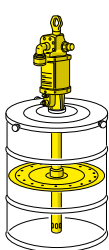
## TYPE OF INSTALLATIONS



tank

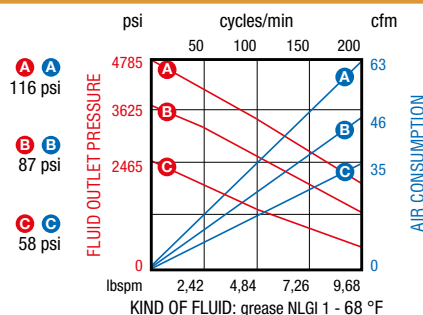


pump elevator



with drum

## PUMP PERFORMANCE





## Series 312 - 70:1 - 6.6 lb/min

**Series 312 industrial air-operated double-acting pumps** suitable for transferring very high viscosity grease up to NLGI 3. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 91C/701-55**

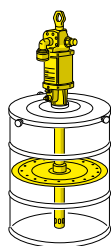
**P/N 92C/701-55**

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air max. pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	30
Max. air consumption 120 psi	63 cfm
Suction tube length	37"
Suction tube external diameter	1.77"
Type of installations	suitable for drums 400 lb
Packaging - Weight	No. 1 2.47 ft <sup>3</sup> 42 lb

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air max. pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	30
Max. air consumption 120 psi	63 cfm
Suction tube length	29"
Suction tube external diameter	1.77"
Type of installations	suitable for drums 120 lb
Packaging - Weight	No. 1 2.47 ft <sup>3</sup> 40 lb

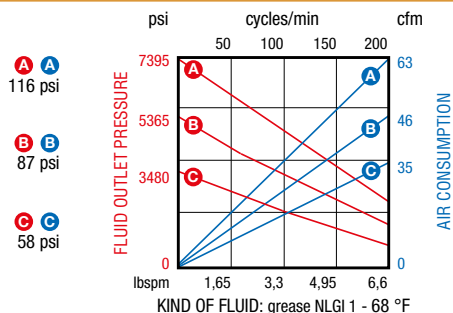
\* At minimum working temperature of 59 °F

### TYPE OF INSTALLATIONS



with drum

### PUMP PERFORMANCE





# Series 412 - 75:1 - 9.7 lb/min

**Series 412 industrial air-operated double-acting pumps** suitable for transferring very high viscosity grease. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 115F/751-55**

**P/N 115FSP/751-55**

**P/N 116F/751-55**

**P/N 117F/751-55**

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20.5
Max. air consumption 120 psi	113 cfm
Suction tube length	19.7"
Suction tube external diameter	1.77"
Type of installations	tank
Packaging - Weight	No. 1 1.6 ft³  lb 35

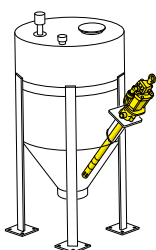
Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20.5
Max. air consumption 120 psi	113 cfm
Suction tube length	19.7"
Suction tube external diameter	1.77"
Type of installations	pump elevator
Packaging - Weight	No. 1 1.6 ft³  lb 35

Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20.5
Max. air consumption 120 psi	113 cfm
Suction tube length	37"
Suction tube external diameter	1.77"
Type of installations	suitable for drums 400 lb
Packaging - Weight	No. 1 2.47 ft³  lb 46

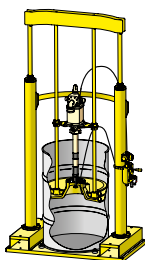
Type of seals	polyurethane
Suction tube upper body	carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	20.5
Max. air consumption 120 psi	113 cfm
Suction tube length	29"
Suction tube external diameter	1.77"
Type of installations	suitable for drums 120 lb
Packaging - Weight	No. 1 2.47 ft³  lb 44

\* At minimum working temperature of 59 °F

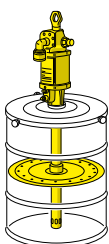
## TYPE OF INSTALLATIONS



tank

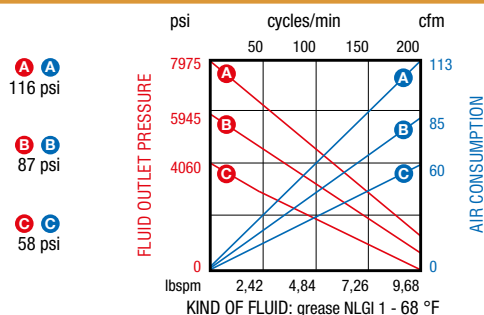


pump elevator



with drum

## PUMP PERFORMANCE







## Series 412 - 40:1 - 22 lb/min

**Series 412 industrial air-operated double-acting pumps** suitable for transferring very high viscosity grease. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 115F/401-55**

**P/N 118F/401-55**

**P/N 118FSP/401-55**

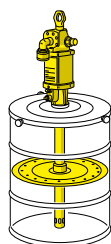
Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	12
Max. air consumption 120 psi	162 cfm
Suction tube length	29"
Suction tube external diameter	2"
Type of installations	suitable for drums 120 lb
Packaging - Weight	No. 1 3.2 ft <sup>3</sup> lb 50

polyurethane
aluminum - carbon steel
carbon steel
1/2" NPT (f)
1/2" NPT (f)
90 - 120 psi
80 dB
NLGI 3
12
162 cfm
23.6"
2"
tank
No. 1 3.2 ft <sup>3</sup> lb 46

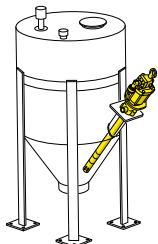
polyurethane
aluminum - carbon steel
carbon steel
1/2" NPT (f)
1/2" NPT (f)
90 - 120 psi
80 dB
NLGI 3
12
162 cfm
23.6"
2"
pump elevator
No. 1 3.2 ft <sup>3</sup> lb 46

\* At minimum working temperature of 59 °F

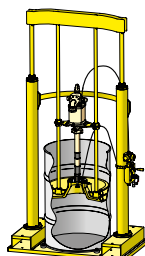
### TYPE OF INSTALLATIONS



**with drum**

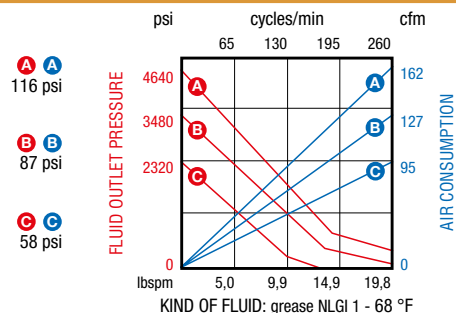


**tank**



**pump elevator**

### PUMP PERFORMANCE





## Series 412 - 40:1 - 22 lb/min

**Series 412 industrial air-operated double-acting pumps** suitable for transferring very high viscosity grease. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 116F/401-55**

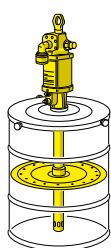
Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	12
Max. air consumption 120 psi	162 cfm
Suction tube length	37"
Suction tube external diameter	2"
Type of installations	suitable for drums 400 lb
Packaging - Weight	No. 1 3.2 ft <sup>3</sup> lb 55

**P/N 117F/401-55**

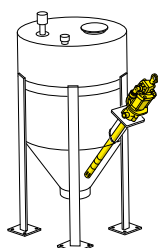
Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	12
Max. air consumption 120 psi	162 cfm
Suction tube length	33.8"
Suction tube external diameter	2"
Type of installations	tank
Packaging - Weight	No. 1 3.2 ft <sup>3</sup> lb 52

\* At minimum working temperature of 59° F

### TYPE OF INSTALLATIONS



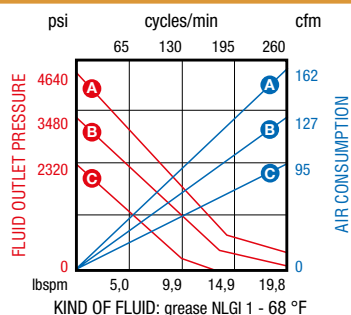
**with drum**



**tank**

### PUMP PERFORMANCE

- A A**  
116 psi
- B B**  
87 psi
- C C**  
58 psi





# Series 600 - 70:1 - 15.4 lb/min

**Series 600 industrial air-operated double-acting pumps** suitable for transferring very high viscosity grease. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 150F/701-55**

**P/N 151F/701-55**

**P/N 153FSP/701-55**

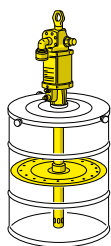
Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	10.5
Max. air consumption 120 psi	176 cfm
Suction tube length	29"
Suction tube external diameter	2"
Type of installations	suitable for drums 120 lb
Packaging - Weight	No. 1 7.0 ft <sup>3</sup> 1b 68

polyurethane
aluminum - carbon steel
carbon steel
1/2" NPT (f)
1/2" NPT (f)
90 - 120 psi
80 dB
NLGI 3
10.5
176 cfm
37"
2"
suitable for drums 400 lb
No. 1 7.0 ft <sup>3</sup> 1b 73

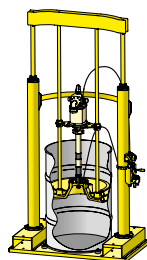
polyurethane
aluminum - carbon steel
carbon steel
1/2" NPT (f)
1/2" NPT (f)
90 - 120 psi
80 dB
NLGI 3
10.5
176 cfm
23.6"
2"
pump elevator
No. 1 7.0 ft <sup>3</sup> 1b 64

\* At minimum working temperature of 59° F

**TYPE OF INSTALLATIONS**



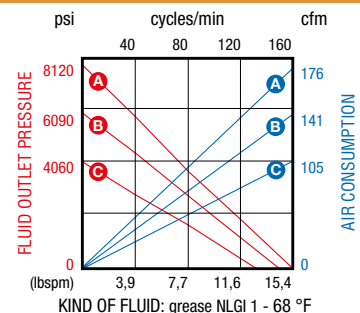
**with drum**



**pump elevator**

**PUMP PERFORMANCE**

- A A 116 psi
- B B 87 psi
- C C 58 psi





# Series 600 - 70:1 - 15.4 lb/min

**Series 600 industrial air-operated double-acting pumps** suitable for transferring very high viscosity grease. The double-action guarantees the delivery of a continuous and constant flow. Particularly effective in systems equipped with multiple distribution points.



**P/N 152F/701-55**

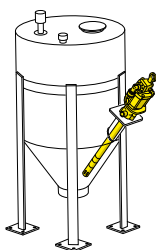
**P/N 153F/701-55**

Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	10.5
Max. air consumption 120 psi	176 cfm
Suction tube length	33.8"
Suction tube external diameter	2"
Type of installations	tank
Packaging - Weight	No. 1 7.0 ft <sup>3</sup> lb 70

Type of seals	polyurethane
Suction tube upper body	aluminum - carbon steel
Suction tube	carbon steel
Air inlet connection	1/2" NPT (f)
Fluid outlet connection	1/2" NPT (f)
Air working pressure	90 - 120 psi
Noise level	80 dB
Max. deliverable grease viscosity *	NLGI 3
Cycles per lb	10.5
Max. air consumption 120 psi	176 cfm
Suction tube length	23.6"
Suction tube external diameter	2"
Type of installations	tank
Packaging - Weight	No. 1 7.0 ft <sup>3</sup> lb 64

\* At minimum working temperature of 59° F

## TYPE OF INSTALLATIONS



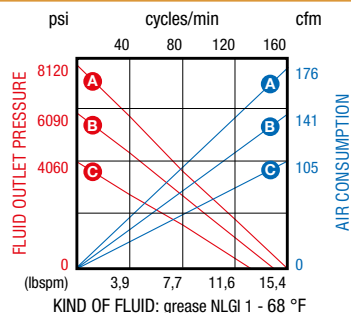
tank

## PUMP PERFORMANCE

**A A**  
116 psi

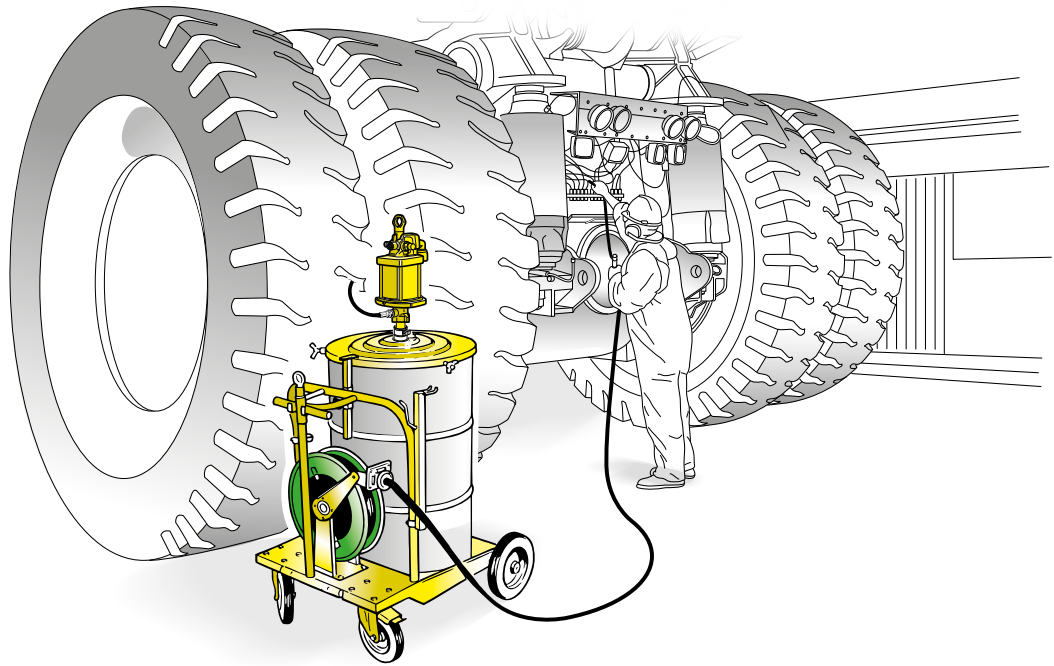
**B B**  
87 psi

**C C**  
58 psi

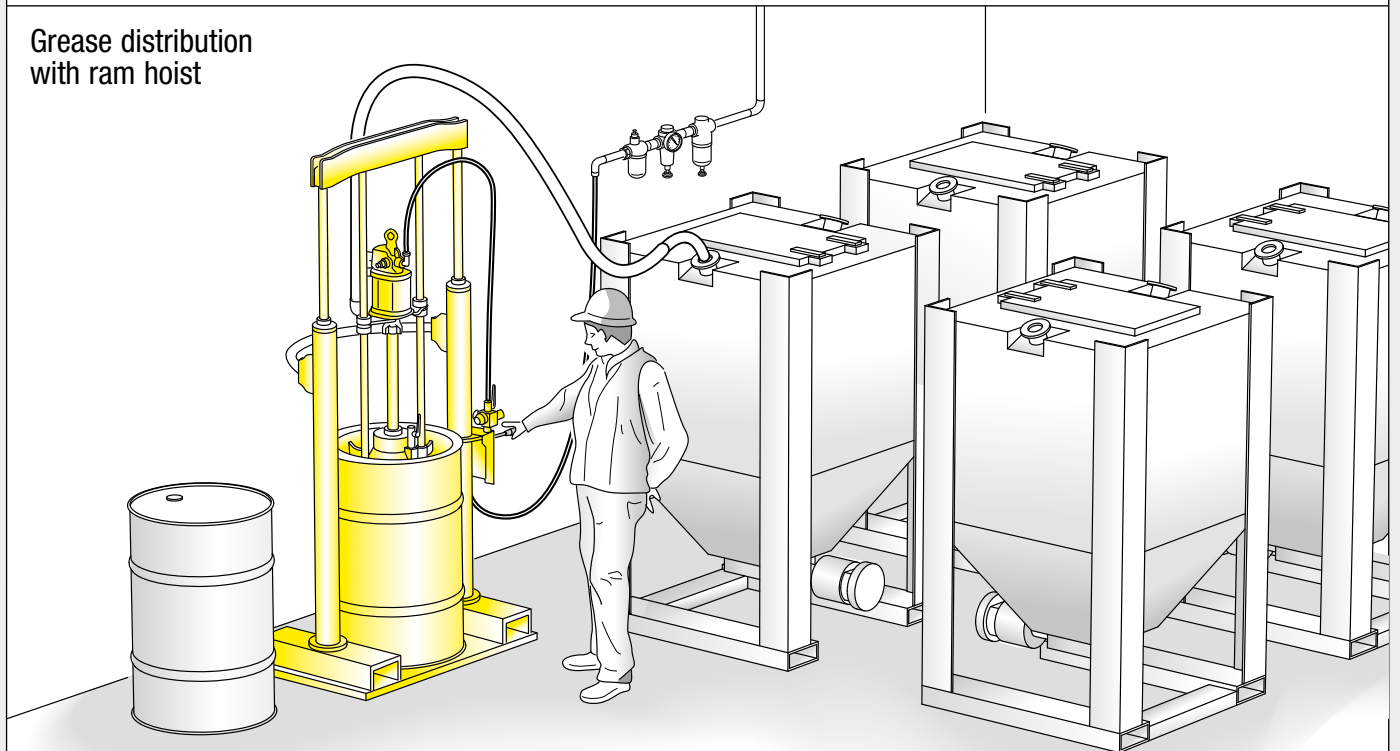


# APPLICATION FIELDS

Mining machinery greasing



Grease distribution with ram hoist





# GREASE ACCESSORIES

## FOLLOWER PLATE FOR PUMPS SERIES 238 - 234 WITH SUCTION TUBE Ø 1.18" (50:1 - 65:1 PUMPS)

### P/N 66310-55

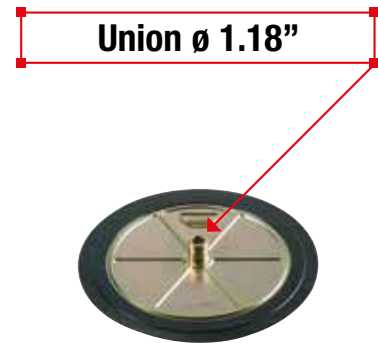
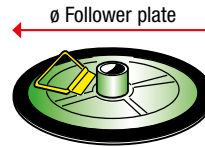
Follower plate Ø 12.2" for 35-60 lbs container (internal Ø 10.0"-11.8")

### P/N 66370-55

Follower plate Ø 14.6" for 120 lbs container (internal Ø 13.2"-14.2")

### P/N 66590-55

Follower plate Ø 23.0" for 400 lbs container (internal Ø 21.3"-22.9")



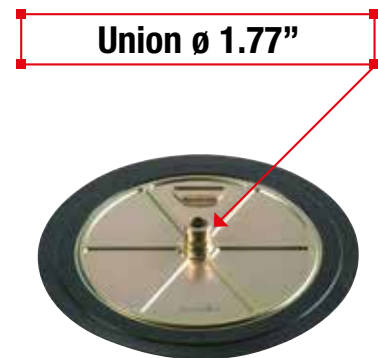
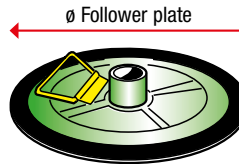
## FOLLOWER PLATE FOR PUMPS SERIES 312 - 412 WITH SUCTION TUBE Ø 1.77" (45:1 - 70:1 - 75:1 PUMPS)

### P/N 10/60-55

Follower plate Ø 23.0" for 400 lbs container (internal Ø 21.3"-22.9")

### P/N 10/62-55

Follower plate Ø 14.6" for 120 lbs container (internal Ø 13.2"-14.2")



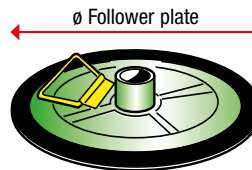
## FOLLOWER PLATE FOR PUMPS SERIES 412 - 600 WITH SUCTION TUBE Ø 2" (40:1 - 70:1 PUMPS)

### P/N 10/65-55

Follower plate Ø 23.0" for 400 lbs container (internal Ø 21.3"-22.9")

### P/N 10/67-55

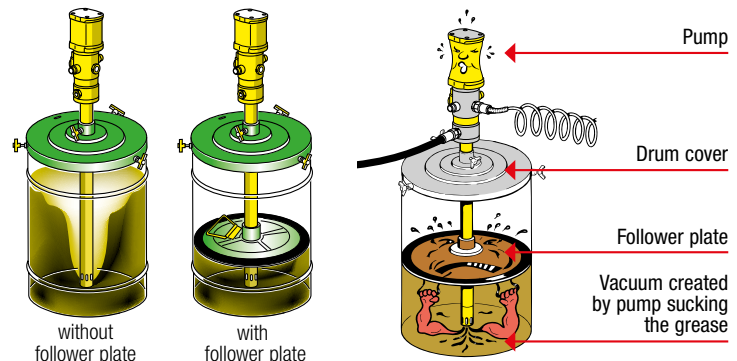
Follower plate Ø 14.6" for 120 lbs container (internal Ø 13.2"-14.2")



### DETAILS AND ADVANTAGES

The follower plate is always recommended but becomes indispensable when using particularly hard greases. The follower plate is pulled towards the bottom of the drum by the vacuum created by the pump and always ensures the following advantages:

- it compresses the grease, preventing air pockets formation and possible cavitation of the pump,
- it keeps the grease clean, as well as preserving its characteristics,
- it enables collection of all the grease from the bottom of the drum, that would otherwise remain attached to the sides.



# GREASE ACCESSORIES

## DRUM COVER FOR PUMPS SERIES 238 - 234 WITH SUCTION TUBE $\varnothing$ 1.18" (50:1 - 60:1 PUMPS)

### P/N 65310-55

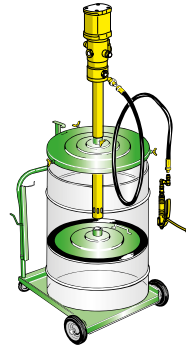
Drum cover  $\varnothing$  12.2" for 35-60 lbs container (external  $\varnothing$  10.2"-11.8")

### P/N 65385-55

Drum cover  $\varnothing$  15.2" for 120 lbs container (external  $\varnothing$  13.4"-15.2")

### P/N 65600-55

Drum cover  $\varnothing$  23.6" for 400 lbs container (external  $\varnothing$  21.7"-23.6")



Union  $\varnothing$  1.18"



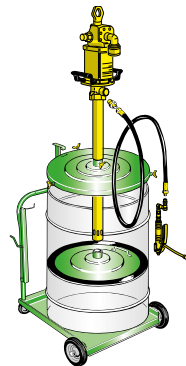
## DRUM COVER FOR PUMPS SERIES 312 - 412 WITH SUCTION TUBE $\varnothing$ 1.77" (45:1 - 70:1 - 75:1 PUMPS)

### P/N 10/50-55

Drum cover  $\varnothing$  23.6" for 400 lbs container (external  $\varnothing$  21.7"-23.6")

### P/N 10/52-55

Drum cover  $\varnothing$  15.2" for 120 lbs container (external  $\varnothing$  13.4"-15.2")



Union  $\varnothing$  1.77"



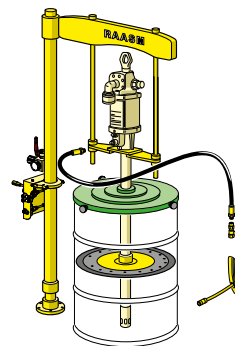
## DRUM COVER FOR PUMPS SERIES 412 - 600 WITH SUCTION TUBE $\varnothing$ 2" (40:1 - 70:1 PUMPS)

### P/N 10/55-55

Drum cover  $\varnothing$  23.6" for 400 lbs container (external  $\varnothing$  21.7"-23.6")

### P/N 10/57-55

Drum cover  $\varnothing$  15.2" for 120 lbs container (external  $\varnothing$  13.4"-15.2")



Union  $\varnothing$  2"



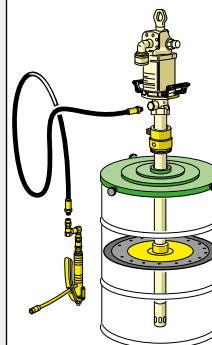
## DRUM COVER WITH THREADED BUSHING 2" (f)

### P/N 65160-55

Drum cover  $\varnothing$  23.6" for 400 lbs container (external  $\varnothing$  21.7"-23.6")

### P/N 65138-55

Drum cover  $\varnothing$  15.2" for 120 lbs container (external  $\varnothing$  13.4"-15.2")



2" Female union



# GREASE ACCESSORIES

## P/N 65709-55

Tie down kit suitable for 120 lb container. Equipped with:

- drum cover, external  $\varnothing$  15.2", union 1.18"
- regulating knobs
- 2 rods with eye bolts

## P/N 65711-55

Tie down kit suitable for 400 lb container. Equipped with:

- drum cover, external  $\varnothing$  23.6", union 1.18"
- regulating knobs
- 2 rods with eye bolts



Note: the drum is not part of the kit

## P/N 65715-55

Tie down kit suitable for 120 lb container. Equipped with:

- drum cover, external  $\varnothing$  15.2", union 1.77"
- regulating knobs
- 2 rods with eye bolts

## P/N 65717-55

Tie down kit suitable for 400 lb container. Equipped with:

- drum cover, external  $\varnothing$  23.6", union 1.77"
- regulating knobs
- 2 rods with eye bolts



Note: the drum is not part of the kit

## P/N 65721-55

Tie down kit suitable for 120 lb container. Equipped with:

- drum cover, external  $\varnothing$  15.2", union 2"
- regulating knobs
- 2 rods with eye bolts

## P/N 65723-55

Tie down kit suitable for 400 lb container. Equipped with:

- drum cover, external  $\varnothing$  23.6", union 2"
- regulating knobs
- 2 rods with eye bolts



Note: the drum is not part of the kit

# GREASE ACCESSORIES

## P/N 65727-55

Tie down kit suitable for 120 lb container.

Equipped with:

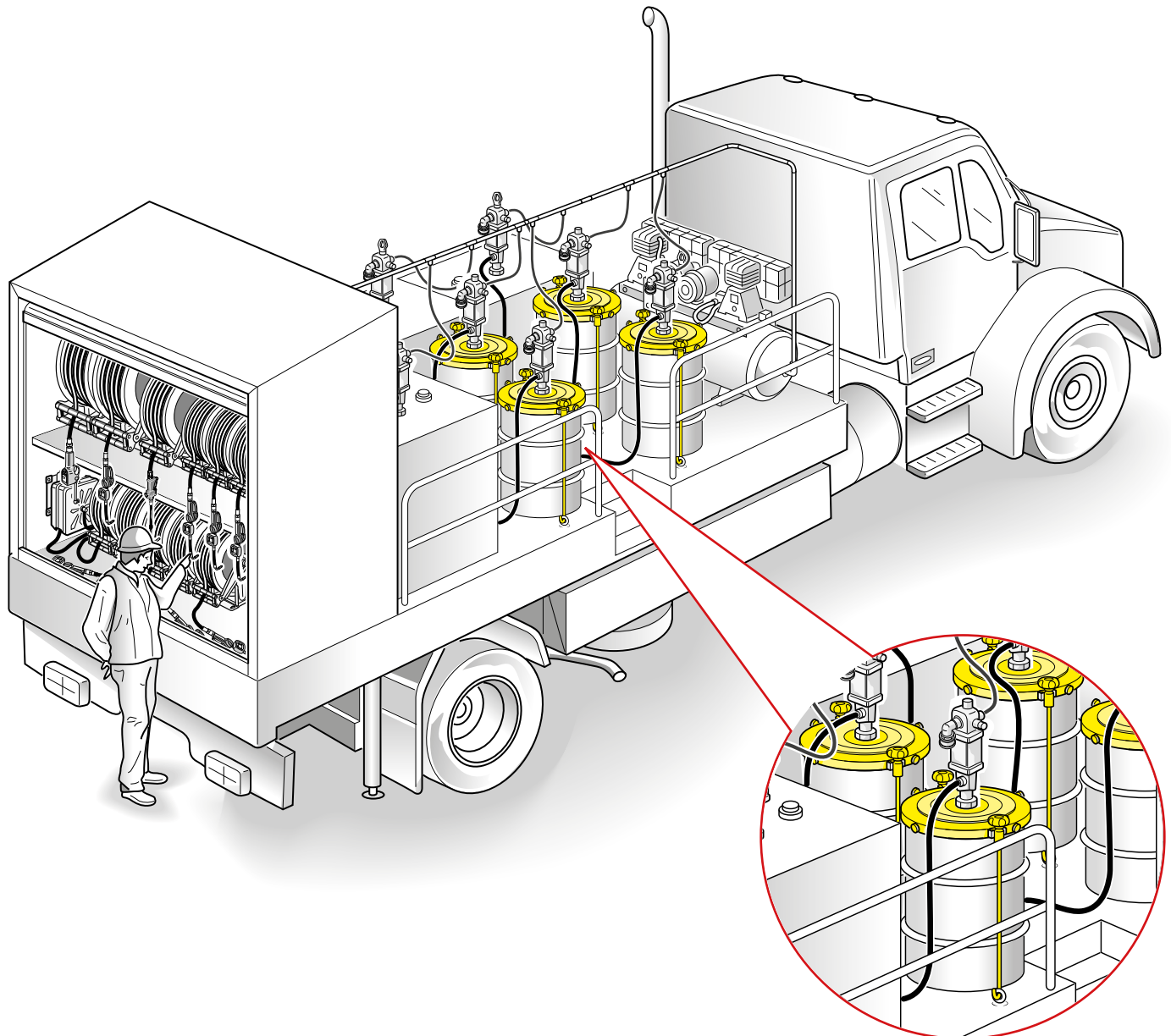
- drum cover, external  $\varnothing$  15.2", female union 2"
- regulating knobs
- 2 rods with eye bolts

## P/N 65729-55

Tie down kit suitable for 400 lb container.

Equipped with:

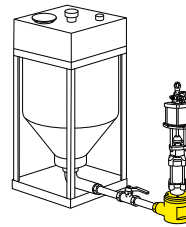
- drum cover, external  $\varnothing$  23.6", female union 2"
- regulating knobs
- 2 rods with eye bolts



# GREASE ACCESSORIES

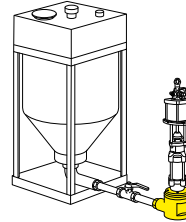
## **P/N 21/160-55**

Anodized aluminum base for industrial pumps connection to bulk containers.  
Thread fluid outlet 3" NPT



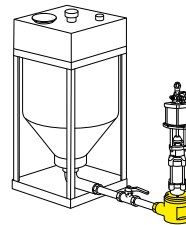
## **P/N 21/262-55**

Nipple 1" NPT (m/m) for industrial pump base



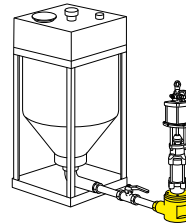
## **P/N 21/161-55**

Industrial pump base with adaptor for suction tube 1" NPT (f)



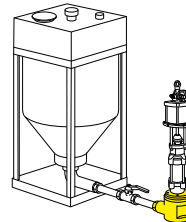
## **P/N 21/162-55**

Industrial pump base with adaptor for suction tube 2" NPT (f)



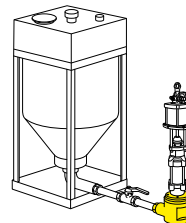
## **P/N 21/164-55**

Industrial pump base with adaptor for suction tube ø 1.77"



## **P/N 21/165-55**

Industrial pump base with adaptor for suction tube ø 2"

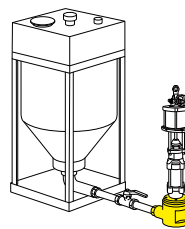




# GREASE ACCESSORIES

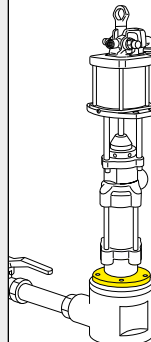
## **P/N 21/166-55**

Industrial pump base  
with adaptor for suction tube  $\varnothing$  2.09"



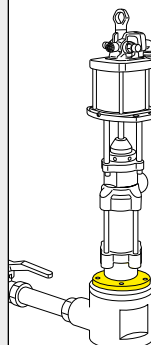
## **P/N 21/61-55**

Adaptor  $\varnothing$  1.7" mm and o-rings for suction tube 1" NPT (f)



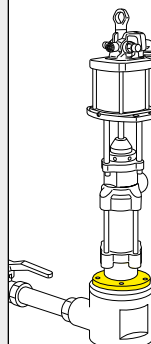
## **P/N 21/62-55**

Adaptor and o-rings for suction tube 2" NPT (f)



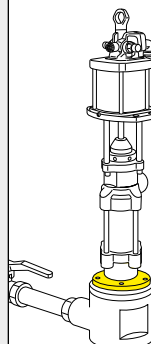
## **P/N 21/64-55**

Adaptor and o-rings for suction tube 1.77"



## **P/N 21/65-55**

Adaptor and o-rings for suction tube  $\varnothing$  2"



# GREASE ACCESSORIES

## NIPPLES

- P/N 111414-55 Nipple 1/4" NPTF (m) x 1/4" NPTF (m)
- P/N 111438-55 Nipple 1/4" NPTF (m) x 3/8" NPTF (m)
- P/N 113838-55 Nipple 3/8" NPTF (m) x 3/8" NPTF (m)



## ADAPTORS

- P/N 121438-55 Adaptor 1/4" NPTF (m) x 3/8" NPTF (f)
- P/N 123814-55 Adaptor 3/8" NPTF (m) x 1/4" NPTF (f)



P/N 121438-55



P/N 123814-55

## P/N 60450-55

Female quick connector complete with check valve - 1/4" NPT (f)  
max. pressure 5000 psi



Articles not manufactured by RAASM

## P/N 60451-55

Male quick connector complete with check valve - 1/4" NPT (f)  
max. pressure 5000 psi



Articles not manufactured by RAASM

## P/N 66661-55

Straight single swivel joint 1/4" NPT (m) x 1/4" NPT (f)  
suitable for grease handle P/N 66855-55

## P/N 66665-55

Straight single swivel joint 3/8" NPT (m) x 3/8" NPT (f)  
suitable for grease handle P/N 66870-55



## P/N 66663-55







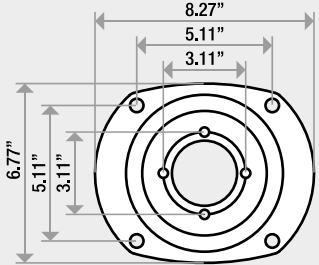
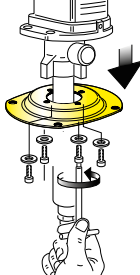
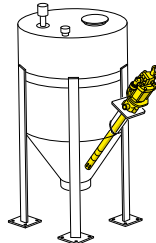


Triple swivel joint - 1/4" NPT (m) x 1/4" NPT (f)  
supplied with grease handle P/N 66882-55 - 66889-55

## P/N 66667-55

Triple swivel joint - 3/8" NPT (m) x 3/8" NPT (f)  
supplied with grease handle P/N 66873-55 - 66876-55



# GREASE ACCESSORIES

<p><b>P/N 10/14-55</b> Bung adaptor <math>\varnothing</math> 1.77" for industrial pumps with suction tube, series 312 and 412</p> <p><b>P/N 10/15-55</b> Bung adaptor <math>\varnothing</math> 2.08" for industrial pumps with suction tube, series 312 and 412, suitable for standard 2" opening</p>		
<p><b>P/N 66740-55</b> Special 4-jaw grease coupler with antisplash valve fitted standard on all grease handles</p>		
<p><b>P/N 66741-55</b> 90° grease coupler</p>		
<p><b>P/N 66742-55</b> Hooking grease coupler</p>		
<p><b>P/N 66743-55</b> Push-on grease coupler</p>		
<p><b>P/N 10/09-55</b> Adaptor for integral and flanged pumps series 312 - 412, for application with other brackets</p> 	 	
<p><b>P/N 66599-55</b> Handle for portable grease kit supplied with grease kits P/N 64031-55</p>		

# GREASE ACCESSORIES

## P/N 37801-55

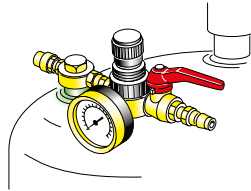
Pressure regulator with pressure gauge - connections 1/4" NPT (m/f) applied on a pump or on the tank of a suction/drain, for regulating the compressed air inlet pressure

## P/N 37818-55

Pressure regulator with pressure gauge - connections 3/8" NPT (m/f) applied on a pump for regulating the compressed air inlet pressure

## P/N 37814-55

Pressure regulator with pressure gauge - connections 1/2" NPT (m/f) applied on a pump for regulating the compressed air inlet pressure



Articles not manufactured by RAASM

## P/N 37810-55

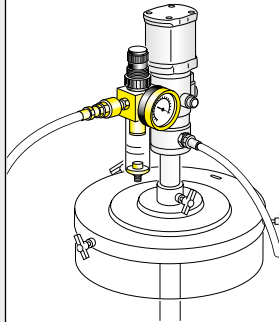
Pressure regulator with condensate discharge filter and pressure gauge - connections 1/4" NPT (f/f) for application at the start of the compressed air line feeding the pump

## P/N 37819-55

Pressure regulator with condensate discharge filter and pressure gauge - connections 3/8" NPT (f/f) for application at the start of the compressed air line feeding the pump

## P/N 37815-55

Pressure regulator with condensate discharge filter and pressure gauge - connections 1/2" NPT (f/f) for application at the start of the compressed air line feeding the pump



Articles not manufactured by RAASM

## P/N 37811-55

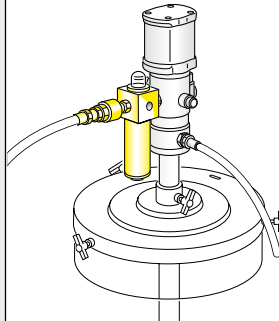
Air lubricator - connections 1/4" NPT (f/f) its application guarantees better efficiency of the pump over time

## P/N 37820-55

Air lubricator - connections 3/8" NPT (f/f) its application guarantees better efficiency of the pump over time

## P/N 37816-55

Air lubricator - connections 1/2" NPT (f/f) its application guarantees better efficiency of the pump over time



Articles not manufactured by RAASM

## P/N 37812-55

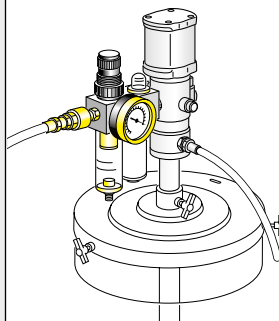
Pressure regulator with condensate discharge filter, air lubricator and pressure gauge - connections 1/4" NPT (f/f) the system guarantees that the pump feed air is free of condensate and is lubricated

## P/N 37821-55

Pressure regulator same as P/N 37812-55 but with connections 3/8" NPT (f/f)

## P/N 37817-55

Pressure regulator same as P/N 37812-55 but with connections 1/2" NPT (f/f)



Articles not manufactured by RAASM

# GREASE ACCESSORIES

## **P/N 66855-55**

Grease control handle  
- inlet 1/4" NPT (f)

## **P/N 66870-55**

Grease control handle  
- inlet 3/8" NPT (f)



## **P/N 66882-55**

Grease control handle with rigid terminal - inlet 1/4" NPT (f)  
- P/N 66663-55 triple swivel joint - with special 4-jaw grease coupler

## **P/N 66873-55**

Grease control handle with rigid terminal - inlet 3/8" NPT (f)  
- P/N 66667-55 triple swivel joint - with special 4-jaw grease coupler

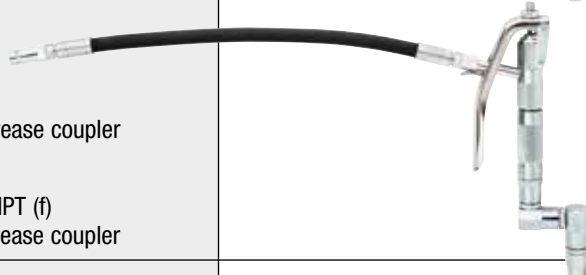


## **P/N 66889-55**

Grease control handle with flexible terminal  
- inlet 1/4" NPT (f)  
- P/N 66663-55 triple swivel joint - with special 4-jaw grease coupler

## **P/N 66876-55**

Grease control handle with flexible terminal - inlet 3/8" NPT (f)  
- P/N 66667-55 triple swivel joint - with special 4-jaw grease coupler



## **P/N 66856-55**

Flexible extension with special 4-jaw grease coupler - P/N 66740-55  
for grease control handle applications

## **P/N 66857-55**

Rigid terminal with special 4-jaw grease coupler - P/N 66740-55  
for grease handle application



**P/N 66857-55**

**P/N 66856-55**

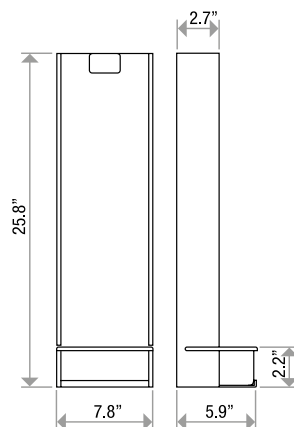
## **Connecting hoses**

For more hoses see page 133  
- 993.504-55 hose length 13' hose Ø 1/4"  
- 995.706-55 hose length 2' hose Ø 3/8"  
- 995.701-55 hose length 3' hose Ø 3/8"  
- 995.702-55 hose length 7' hose Ø 3/8"



## **P/N 88630-55**

Modular drip-tray. Equipped with hook for control handle and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery handle. Essential for a clean and orderly workplace







# PUMP ELEVATORS

**P/N 10/81-55**  
**Single column pump elevator.** Elevator is air operated and lifts pump assy via the side mounted 3-ways valve.

**P/N 10/85-55**  
**Air operated twin ram hoist for use with suitable industrial pumps** are essential when pumping high viscosity and heavy materials. The pump and hoist are raised and lowered by compressed air via the side mounted 3-way valve for quick and easy drum changeovers. When used with a suitable follower plate (supplied separately), it ensures pump prime on the heaviest materials.



## P/N 10/81-55

**Single column industrial pump elevator.**  
Suitable for drums 400 lb

Column	1 without basement
Suitable for drums	400 lbs
Working temperature	35 °F - 104 °F
Max pressure	120 psi
Usable pumps	S. 234 - 238 - 312 - 412 - 600 - 700
Noise level	negligible (< 70 db)
Pushing force downwards at:	-
Basement accommodation pallet	-
Packaging - Weight	No. 1 24 ft³  lb 166

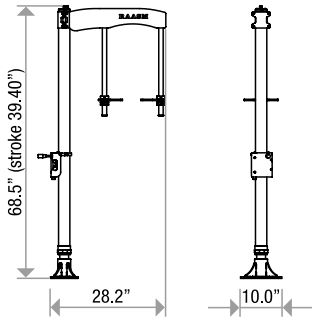
## P/N 10/85-55

**Twin column industrial pump elevator and fluid press.** Suitable for drums 400 lb

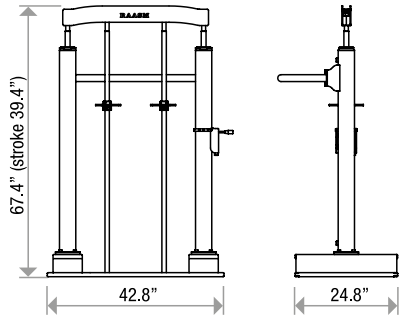
2
400 lbs
35 °F - 104 °F
120 psi
S. 234 - 238 - 312 - 412 - 600 - 700
negligible (< 70 db)
60 psi 950 lbs 90 psi 1427 lbs - 120 psi 1903 lbs
11/101
No. 1 65 ft³  lb 408

OVERALL DIMENSIONS inches

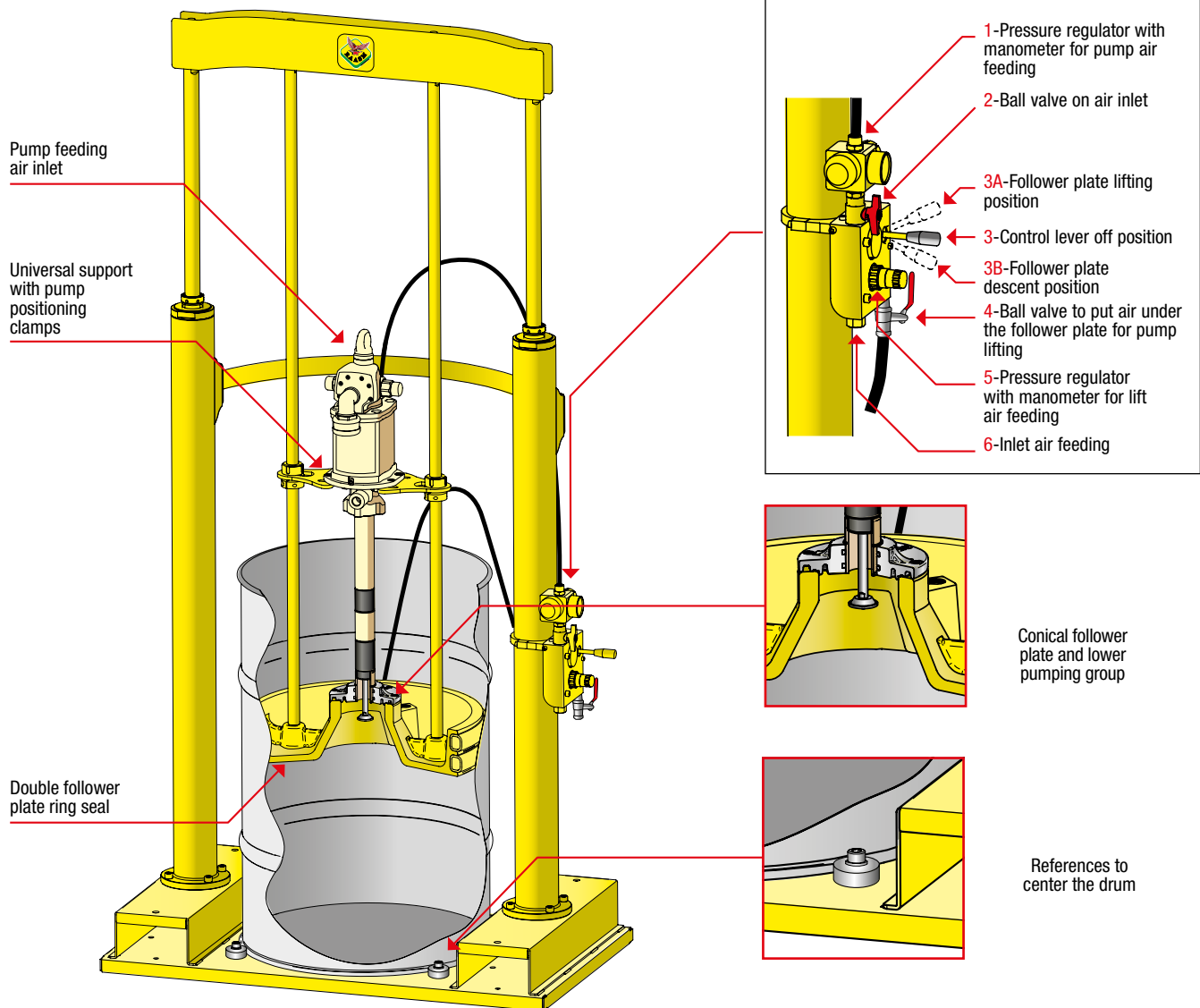
### ■ P/N 10/81-55



### ■ P/N 10/85-55

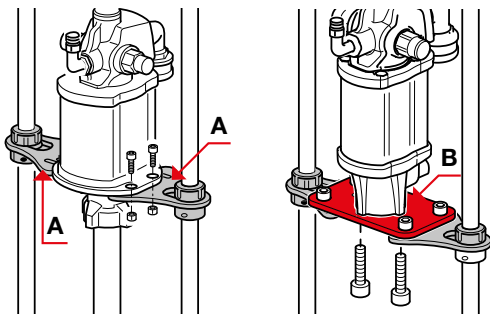


# DETAILS AND ADVANTAGES



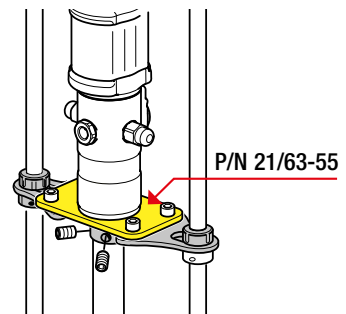
## STANDARD BRACKETS

All the elevators are equipped with 2 standard brackets (A - B) suitable for mounting all our industrial pumps



## BRACKETS ON REQUEST

P/N 21/63-55 Special support suitable to mount pump with  $\varnothing 1.18''$  suction tube





# TWIN COLUMN RAM HOISTS

**Air operated twin column ram hoist for use with industrial pump.** Essential when pumping high viscosity and heavy fluids. It is raised and lowered by compressed air, via the side mounted 3-way valve. Follower plate ensures pump prime on high viscosity fluids since ram pushes down the follower plate helping pump to work. It is suitable for drums 400 lb.



## P/N

## 10/12401P1N-55

**Twin column ram hoist with:**  
 ■ industrial pump P/N 118FSP/401-55  
 ■ follower plate P/N 11/65-55  
 for 400 lb drums

## 10/09451P1N-55

**Twin column ram hoist with:**  
 ■ industrial pump P/N 90FSP/451-55  
 ■ follower plate P/N 11/64-55  
 for 400 lb drums

## 10/12751P1N-55

**Twin column ram hoist with:**  
 ■ industrial pump P/N 115FSP/751-55  
 ■ follower plate P/N 11/64-55  
 for 400 lb drums

## 10/12181P1N-55

**Twin column ram hoist with:**  
 ■ industrial pump P/N 115F/181-55  
 ■ follower plate P/N 11/64-55  
 for 400 lb drums

## 10/09111P1N-55

**Twin column ram hoist with:**  
 ■ industrial pump P/N 90F/111-55  
 ■ follower plate P/N 11/64-55  
 for 400 lb drums

<b>Twin column ram</b>	P/N 10/85-55
<b>Follower plate in NBR</b>	P/N 11/60-55
<b>Adaptor</b>	P/N 21/65-55
<b>Pump with seals in PU</b>	P/N 118FSP/401-55
<b>Ratio</b>	40:1
<b>Flow rate</b>	22 lb/min
<b>Suction tube</b>	ø 2"
<b>Pump connection hose</b>	P/N 996.3015-55
<b>Follower plate connection hose</b>	P/N 995.301-55
<b>Suitable for drums</b>	400 lb
<b>Packaging - Weight</b>	No. 1 65 ft³  lb 510

P/N 10/85-55
P/N 11/60-55
P/N 21/64-55
P/N 90FSP/451-55
45:1
9.7 lb/min
ø 1.77"
P/N 996.3015-55
P/N 995.301-55
400 lb
No. 1 65 ft³  lb 500


P/N 10/85-55
P/N 11/60-55
P/N 21/64-55
P/N 115FSP/751-55
75:1
9.7 lb/min
ø 1.77"
P/N 996.3015-55
P/N 995.301-55
400 lb
No. 1 65 ft³  lb 507


P/N 10/85-55
P/N 11/60-55
P/N 21/64-55
P/N 115F/181-55
18:1
42 lb/min
ø 1.77"
P/N 996.3015-55
P/N 995.301-55
400 lb
No. 1 65 ft³  lb 491

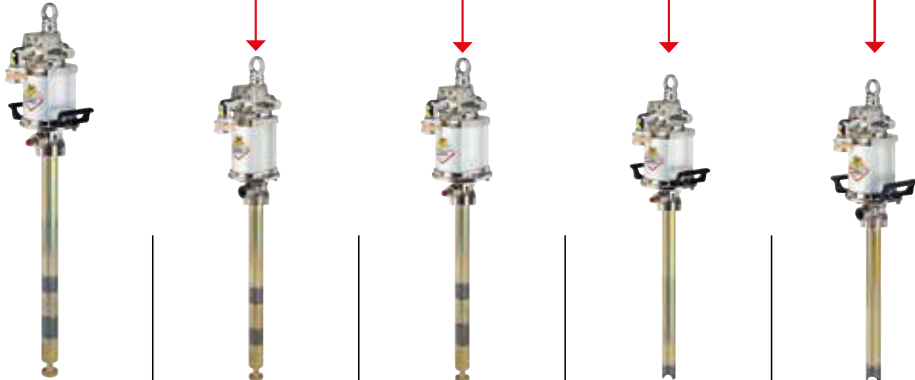
P/N 10/85-55
P/N 11/60-55
P/N 21/64-55
P/N 90F/111-55
11:1
33 lb/min
ø 1.77"
P/N 996.3015-55
P/N 995.301-55
400 lb
No. 1 65 ft³  lb 493

# TWIN COLUMN RAM: CUSTOM KITS

In order to satisfy any particular need it is possible to create one's personalized kit choosing pump, follower plate, adaptors and support. We suggest you to look at the information explained in the following pattern.

1	TWIN COLUMN RAM							Twin column ram and pump elevator suitable for 400 lb drums
		P/N	10/85-55					

2	FOLLOWER PLATE	 ø pump suction tube						Follower plates with NBR double o-rings. Equipped with connectors suitable for various sizes of down tube
		P/N	11/65-55	11/64-55	11/63-55	11/62-55	11/61-55	
Suitable for		ø 2" suction tube	ø 1.77" suction tube	ø 1.18" suction tube	2"(f) suction tube	1" (f) suction tube		

3	PUMPS							Other pumps, here not listed, may be installed on the ram choosing the right follower plate (please contact the technical dept for more info)
		P/N	118FSP/401-55	90FSP/451-55	115FSP/751-55	115F/181-55	90F/111-55	
Series		412	312	412	412	312		
Ratio		40:1	45:1	75:1	18:1	11:1		
Flow rate		22 lb/min	9.7 lb/min	9.7 lb/min	42 lb/min	33 lb/min		
Seals		polyurethane	polyurethane	polyurethane	polyurethane	polyurethane		
Suct. tube		23.64"	19.70"	19.70"	19"	19"		
P/N	10/12401P1N-55	10/09451P1N-55	10/12751P1N-55	10/12181P1N-55	10/09111P1N-55			

# RAM HOISTS ACCESSORIES

## P/N 11/61-55

Follower plate ø 23" for 400 lb drums with NBR double ring seal and adaptor 1" (f)

## P/N 11/62-55

Follower plate ø 23" for 400 lb drums with NBR double ring seal and adaptor 2" (f)

## P/N 11/63-55

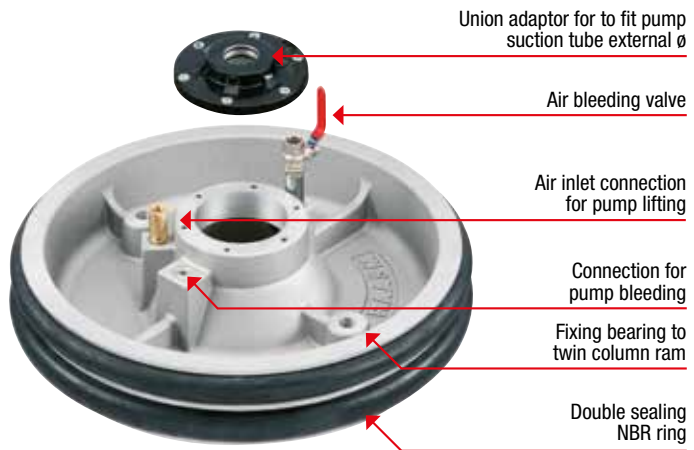
Follower plate ø 23" for 400 lb drums with NBR double ring seal and adaptor ø 1.18"

## P/N 11/64-55

Follower plate ø 23" for 400 lb drums with NBR double ring seal and adaptor ø 1.77"

## P/N 11/65-55

Follower plate ø 23" for 400 lb drums with NBR double ring seal and adaptor ø 2"



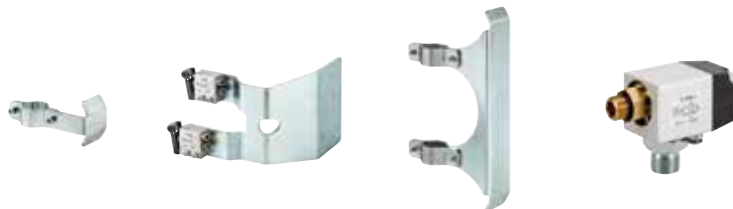
## P/N 11/102-55

Visible air bleeder for ram hoist: eliminates air pockets inside the drum, leaving a clean follower plate



## P/N 11/130-55

Pneumatic controls of the maximum and minimum drum's levels



## P/N 21/63-55

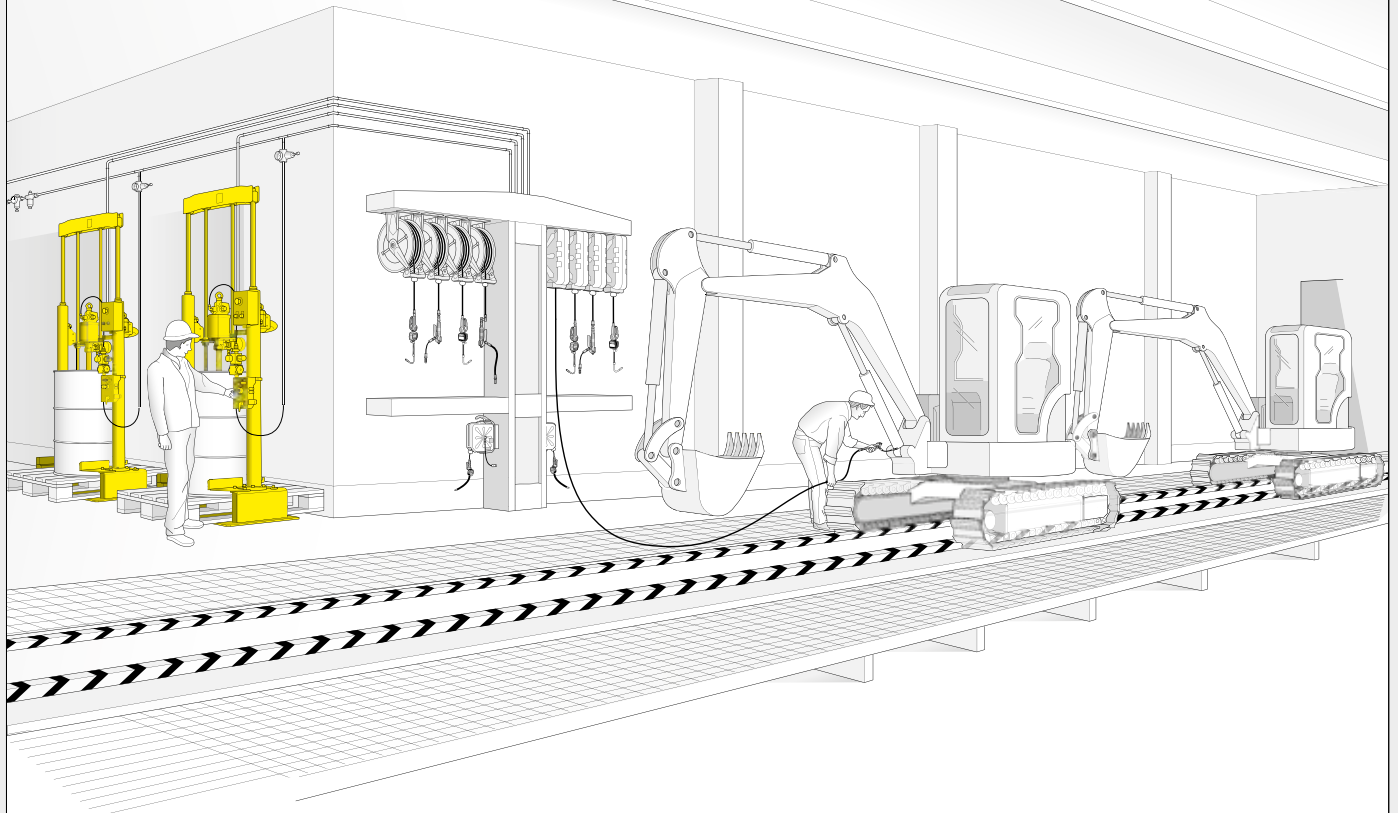
Adaptor and o-rings for suction tube ø 1.18". Special support suitable to mount on pump elevator.



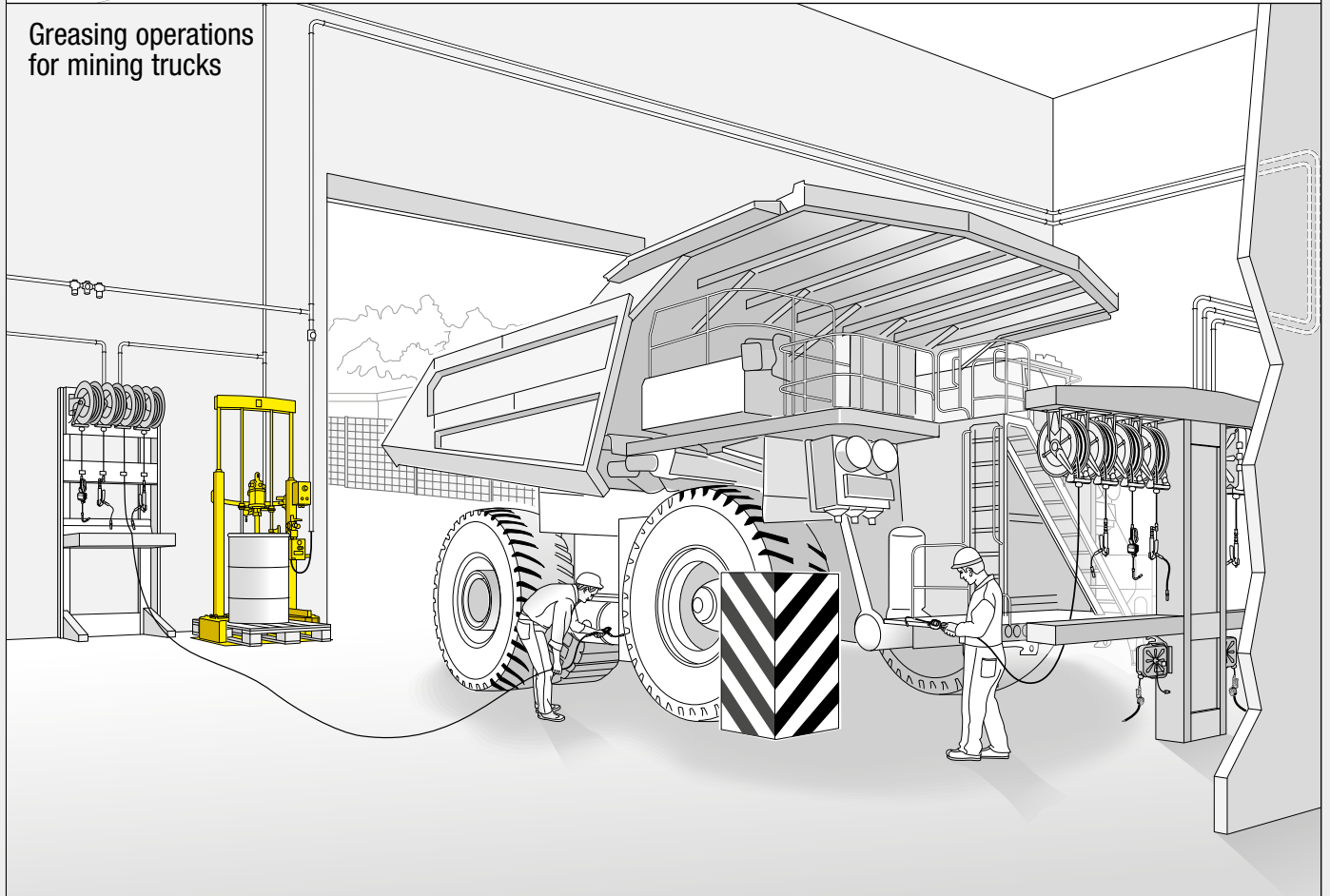


# APPLICATION FIELDS

Greasing operations  
in the assembly line



Greasing operations  
for mining trucks






# 29 lb GREASE PUMPS

## manual                      air-operated

### Portable and wheel-mounted lever and pedal-operated pumps.

Practical and functional, they can be used in all workplaces and enable quick, high-pressure greasing on any motor vehicle or mechanism. They are equipped with a grease follower plate that protects the lubricant and ensures positive priming.

 Do not use flammable or corrosive liquids



**P/N 68012-55**

**Portable high-pressure** 5000 - 5800 psi hand-operated grease pump, equipped with:

- 29 lb tank
- grease follower plate
- hose 1/4" - 8'
- rigid extension with 4-jaw grease head







**P/N 68213-55**

**Air-operated grease pump** R 50:1, wheel-mounted, equipped with:

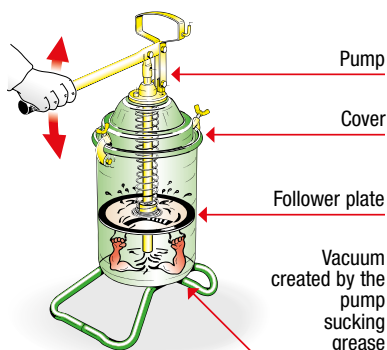
- 29 lb tank
- grease follower plate
- P/N 993.504-55 hose 1/4" - 13'
- P/N 62141-55 air pump R 50:1
- P/N 66882-55 grease handle with rigid extension

#### Packaging - Weight

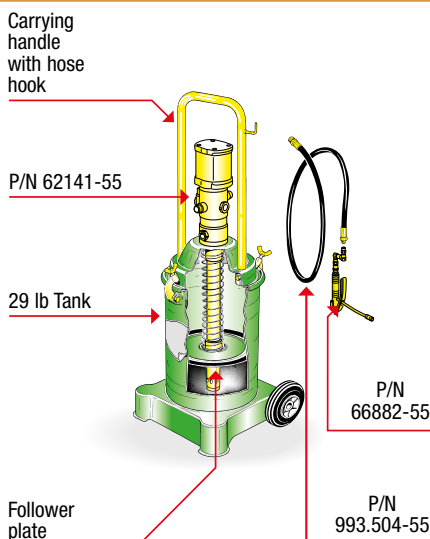
 No. 1   2.5 ft<sup>3</sup>    lb 23

 No. 1   3.5 ft<sup>3</sup>    lb 37

#### DETAILS AND ADVANTAGES

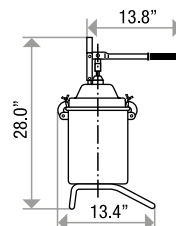


The follower plate, indispensable when using particularly hard greases, is drawn towards the bottom of the drum by the vacuum created by the pump in the grease suction stage

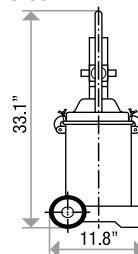


#### OVERALL DIMENSIONS inches

##### ■ P/N 68012-55



##### ■ P/N 68213-55





# MANUAL GREASE PUMPS

for drums 26 - 40 lb      for drums 35 - 65 lb

**Portable lever-operated manual grease pumps.** Practical and functional, they can be used in all workplaces, and in particular on rough ground such as in farming or building sites. They enable easy change of the grease container (drum or bucket) and quick greasing on any motor vehicle or mechanism. They are equipped with a grease follower plate that protects the lubricant and ensures positive priming.



**P/N 60280-55**

**Portable high-pressure** 5000 - 5800 psi, hand-operated grease pump for drums of 26 - 40 lb with external  $\varnothing$  from 9.5" to 10", equipped with:

- manual pump
- drum cover  $\varnothing$  11"
- grease follower plate  $\varnothing$  10"
- hose 1/4" - 8'
- rigid extension with 4-jaw grease head

**Packaging - Weight**

No. 1 0.8 ft<sup>3</sup> lb 12



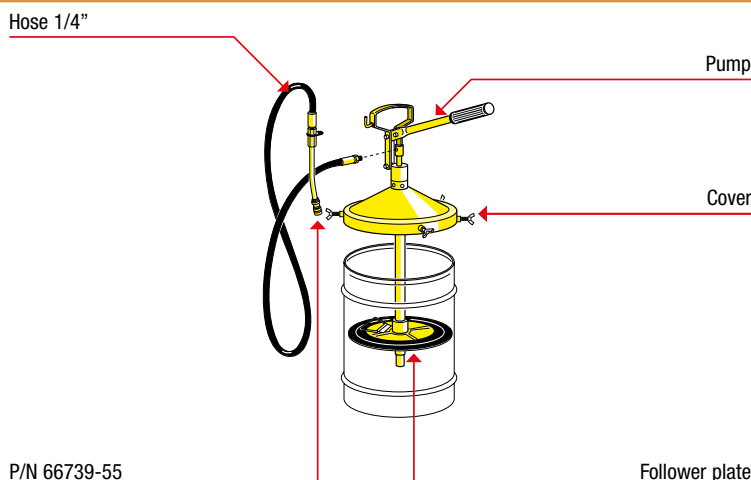
**P/N 60310-55**

**Portable high-pressure** 5000 - 5800 psi, hand-operated grease pump for drums of 35 - 65 lb with external  $\varnothing$  from 10" to 11.5", equipped with:

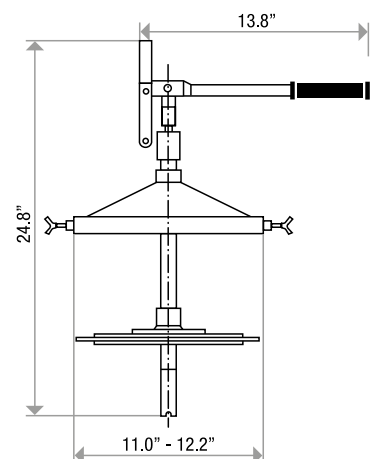
- manual pump
- drum cover  $\varnothing$  12"
- grease follower plate  $\varnothing$  12"
- hose 1/4" - 8'
- rigid extension with 4-jaw grease head

No. 1 0.8 ft<sup>3</sup> lb 14

**DETAILS AND ADVANTAGES**



**OVERALL DIMENSIONS inches**



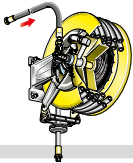
















# HOSE REELS





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# HOSE REEL ADVANTAGES

- Quick and safe hose rewinding
- Workplace always in order
- It's a safeguards against wear and possible breakage of the hoses themselves
- Operators work in total security in a clean and tidy place
- The hose reels without hose have a swivelling female connection on the drum to facilitate hose mounting



**When choosing a hose reel, it is important to consider the following aspects:**

Type of fluid to be delivered

Flowrate in gpm. to be delivered

Length and diameter of hose to be used

Pressure of fluid

Air-water Antifreeze **300 psi**

Hot water **1400 psi**

Hot water **3000 psi**

Oil and similar **2000 psi**

Grease **5800 psi**

Diesel oil **140 psi**

Waste oil-diesel fuel **300 psi** (suction/delivery)

Welding gas **250 psi**

DEF **140 psi**

# CHOOSING A HOSE REELS FOR CAPACITY

The following table gives the max length of those to be wound on our reels basing on external diameter of hose to be used:

## Industrial series (open and enclosed)

External diameter of hose to be used	Hose reel spring rewinding capacity	Series	External diameter of hose to be used	Hose reel spring rewinding capacity	Series
ø 0.47"	max 52'	<b>Series 290</b>	ø 0.73"	max 92'	<b>Series 530</b>
ø 0.55"	max 45'		ø 0.79"	max 85'	
ø 0.63"	max 35'		ø 0.87"	max 75'	
ø 0.47"	max 60'	<b>Series 330</b>	ø 0.87"	max 100'	<b>S. 540 outlet 3/8"</b>
ø 0.55"	max 52'		ø 1.10"	max 72'	<b>Series 540 outlet 1"</b>
ø 0.63"	max 40'		ø 1.34"	max 55'	
ø 0.47"	max 72'	<b>Series 390</b>	ø 0.87"	max 200'	<b>S. 560 outlet 3/8"</b>
ø 0.55"	max 65'		ø 1.10"	max 130'	<b>Series 560 outlet 1"</b>
ø 0.63"	max 60'		ø 1.34"	max 100'	
ø 0.67"	max 70'	<b>Series 430 Series 450</b>			
ø 0.77"	max 52'				
ø 0.87"	max 45'				

## Industrial series for double hose for welding

External diameter of hose to be used	Hose reel spring rewinding capacity	Series	External diameter of hose to be used	Hose reel spring rewinding capacity	Series
ø 0.51" x 0.51"	max 42'	<b>Series 430</b>	ø 0.51" x 0.51"	max 120'	<b>Series 540</b>
ø 0.59" x 0.59"	max 40'		ø 0.59" x 0.59"	max 115'	
ø 0.63" x 0.63"	max 35'		ø 0.63" x 0.63"	max 90'	
ø 0.51" x 0.51"	max 72'	<b>Series 530</b>			
ø 0.59" x 0.59"	max 65'				
ø 0.63" x 0.63"	max 50'				

## Industrial motor-operated series

External diameter of hose to be used	Hose reel spring rewinding capacity	Series	External diameter of hose to be used	Hose reel spring rewinding capacity	Series
ø 0.79"	max 165'	<b>Series 617 Series 618 outlet 1"</b>	ø 0.79"	max 320'	<b>Series 637 Series 638 outlet 1"</b>
ø 1.06"	max 100'		ø 1.06"	max 200'	
ø 1.38"	max 65'		ø 1.38"	max 130'	
ø 1.06"	max 100'	<b>8617.600-55 outlet 1-1/2"</b>	ø 1.06"	max 200'	<b>8637.600-55 outlet 1-1/2"</b>
ø 1.38"	max 65'		ø 1.38"	max 130'	
ø 1.73"	max 50'		ø 1.73"	max 100'	
ø 1.97"	max 35'		ø 1.97"	max 65'	

# HOSE REELS INSTALLATION

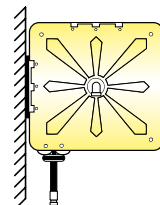
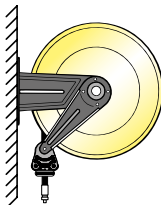
The hose reels are supplied with adjustable arms fitted as shown in the photo.

The same arms can be easily repositioned as required look the following options:



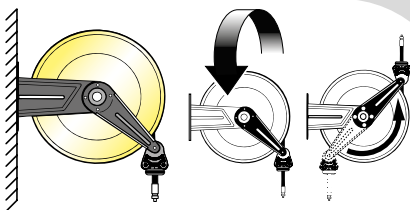
Wall installation with hose downwards. Ideal for use with drip-catcher tray.

1



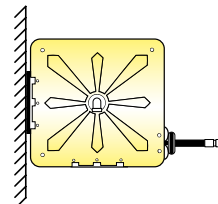
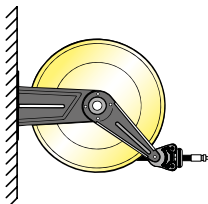
Wall installation with hose downwards. From the standard position turn the arms upwards, then turn the hose reel upside-down (see figure). Ideal for use of swivelling hose reels.

2



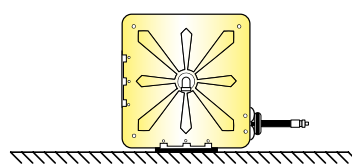
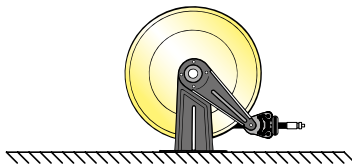
Wall installation with horizontal hose position. Ideal for mounting at medium/low heights.

3



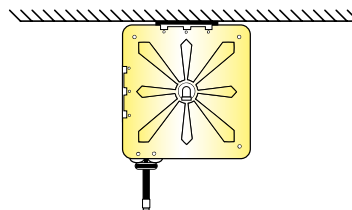
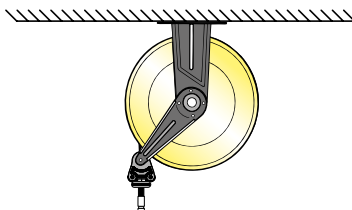
Bench installation.

4



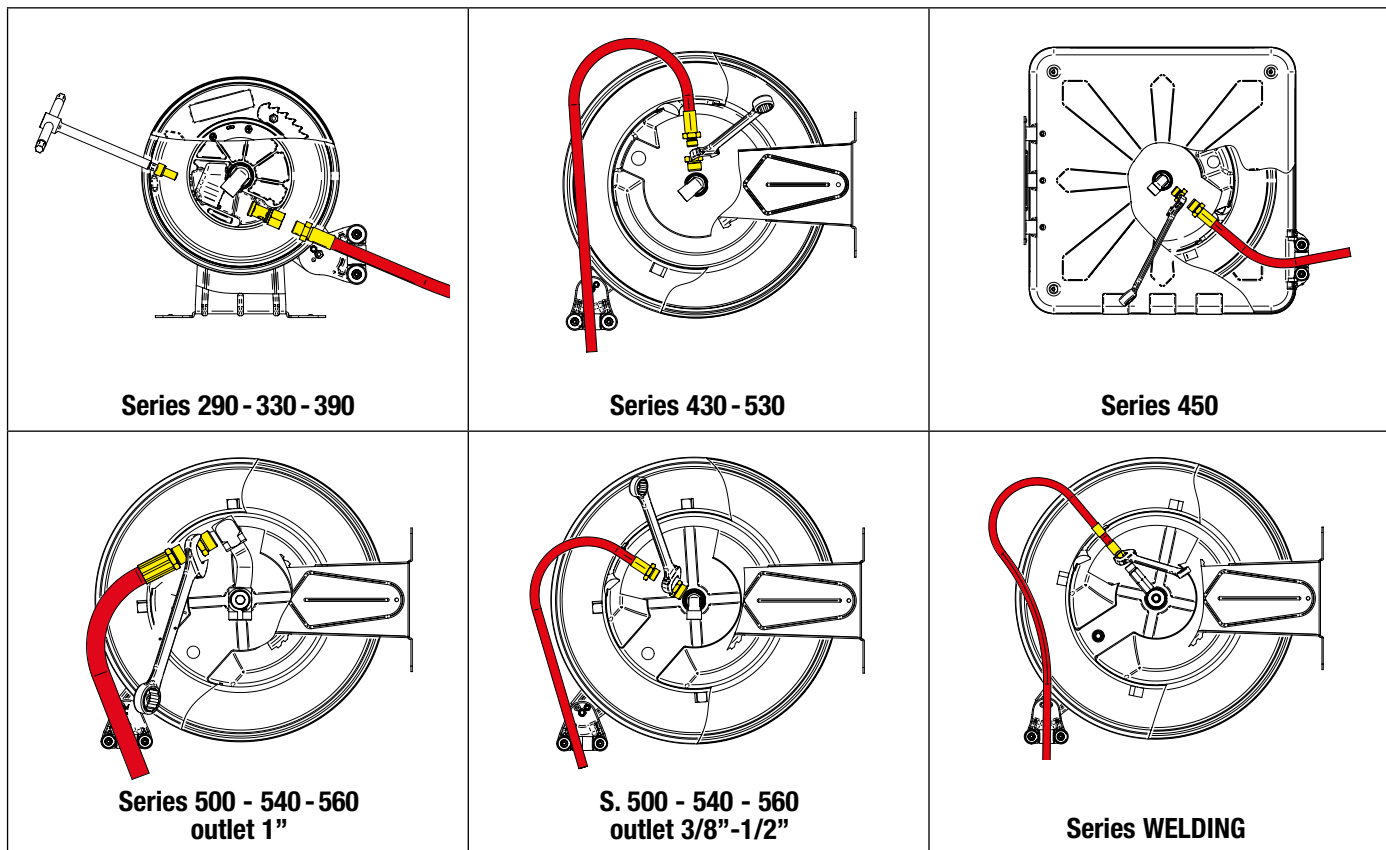
Ceiling installation.

5



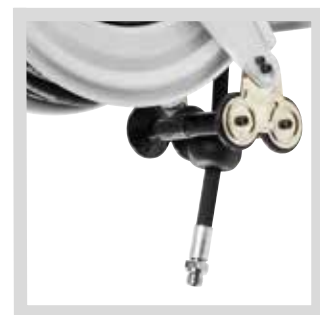
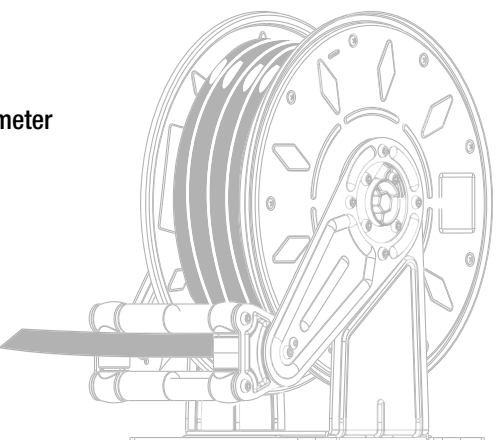
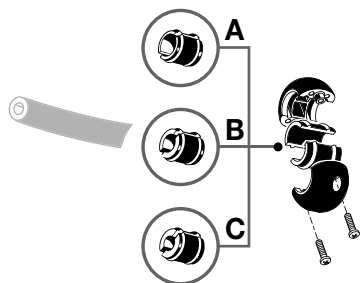
# HOSE REELS TECHNICAL FEATURES

## Hose reel outlet hose connection



## Universal hose stop

Adapters for hoses of different diameter  
(Supplied with the hose stop)



■ Comes with all hose reels supplied without hose, complete with adapters for using hoses of different diameter.

P/N	Series		ø Reductions
<b>KR7201</b>	painted - stainless steel	290 - 330 - 390	0.47" - 0.55" - 0.63"
<b>KR8104</b>	painted - stainless steel	430 - 450 - 530	0.55" - 0.67" - 0.75"
<b>KR8705</b>	painted - stainless steel	500 - 540 - 560	0.55"-0.96"-0.83"-0.97"-1.10"-1.18"-1.34"
<b>KR8907</b>	painted	430 welding - 530 welding - 540 welding	0.47" - 0.55" - 0.59" - 0.63"

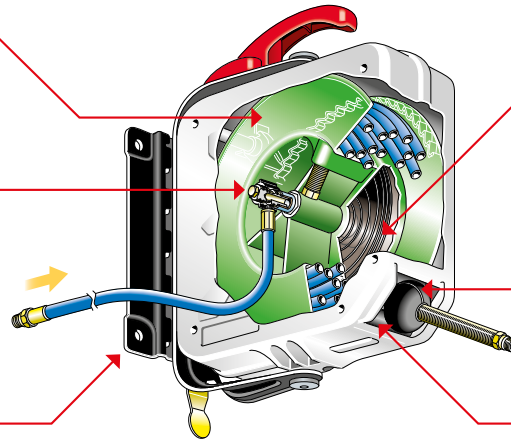
# TECHNICAL CHARACTERISTICS

## Enclosed hose reel Series 260

Automatic stopping system: allows hose to be locked at the required length

Fluid conveyance joint

The wall bracket with bayonet hooking is easy to mount and allows to remove quickly the hose reel when necessary



Rewinding spring

Adjustable hose stop

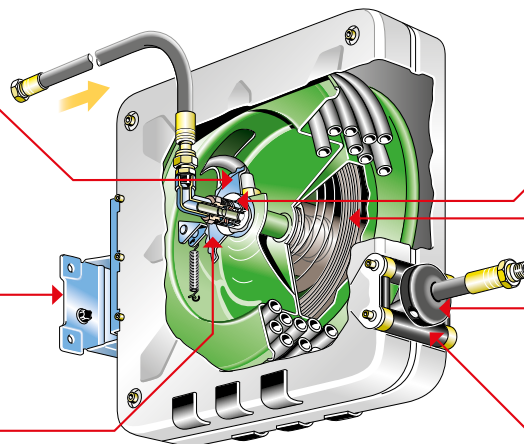
Self-lubricating hose guide rollers

## Enclosed hose reel Series 450

Drum support bushings in self-lubricating material

The easy to install adjustable bracket allows the hose reel to be removed for any maintenance

The trip enables automatic stopping at the required length



Fluid conveyance joint

Rewinding spring

Adjustable hose stop

Self-lubricating hose guide rollers

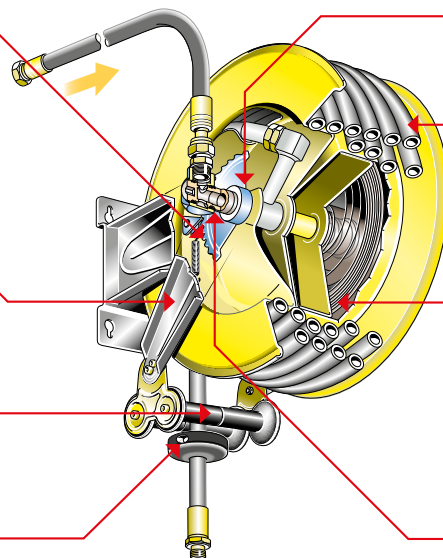
## Hose reel

Automatic stopping system: allows the hose to be locked at the required length

Adjustable double arms: to favour hose extraction according to hose reel installation

Self-lubricating hose guide rollers: wide multi-way opening

Adjustable hose stop



Drum support bushings in brass alloy, self-lubricating, effective and corrosion resistant

Hose reel drum: sturdy and practical with ribbing and rounded edges

Fully enclosed and protected constant-force automatic rewinding spring

Fluid passage swivel joint in brass / carbon steel / s/steel / AISI 304 s/steel with polyurethane / Viton® / Teflon® seals



# HOSE REELS SERIES

**Painted steel**

**Stainless steel**

**Series 290**

**Series 330**

**Series 390**

**Series 430**

**Series 430 ABS**

**Series 530**

**Series 540**

**Series 560**





# AIR-WATER ANTIFREEZE HOSE REELS - 300 PSI



Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.

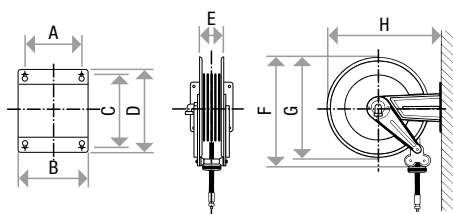


The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.

Seals are in **Viton®**  
Swivel joint in **Brass**

	P/N	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	AISI 304 STAINLESS STEEL	Ø	length	P/N hose		
Series 290	8290.100-55	8292.100-55	without hose			3/8" NPSM (f)	3/8" NPTF (f)
	8290.101-55	-	3/8"	35'	995.210-55	3/8" NPTF (m)	3/8" NPTF (m)
	8290.102-55	-	1/4"	50'	993.215-55	3/8" NPTF (m)	1/4" NPTF (m)
Series 330	8330.100-55	8332.100-55	without hose			3/8" NPSM (f)	3/8" NPTF (f)
	8330.101-55	-	3/8"	40'	995.211-55	3/8" NPTF (m)	3/8" NPTF (m)
	8330.102-55	-	1/4"	60'	993.218-55	3/8" NPTF (m)	1/4" NPTF (m)
Series 390	8390.100-55	8392.100-55	without hose			3/8" NPSM (f)	3/8" NPTF (f)
	8390.101-55	-	3/8"	40'	995.211-55	3/8" NPTF (m)	3/8" NPTF (m)
	8390.102-55	-	3/8"	60'	995.217-55	3/8" NPTF (m)	3/8" NPTF (m)
Series 430	8430.100-55	8432.100-55	without hose			1/2" NPSM (f)	1/2" NPTF (f)
	8430.101-55	-	3/8"	40'	995.211-55	1/2" NPTF (m)	3/8" NPTF (m)
	8430.102-55	-	3/8"	60'	995.217-55	1/2" NPTF (m)	3/8" NPTF (m)
	8430.103-55	-	1/2"	35'	996.210-55	1/2" NPTF (m)	1/2" NPTF (m)
	8430.104-55	-	1/2"	50'	996.215-55	1/2" NPTF (m)	1/2" NPTF (m)
Series 530	8530.100-55	8532.100-55	without hose			1/2" NPSM (f)	1/2" NPTF (f)
	8530.101-55	-	1/2"	65'	996.220-55	1/2" NPTF (m)	1/2" NPTF (m)
	8530.102-55	-	1/2"	80'	996.225-55	1/2" NPTF (m)	1/2" NPTF (m)
Series 540	8540.100-55	8542.100-55	without hose			1" NPSM (f)	1" NPTF (f)
	8540.101-55	-	3/4"	50'	997.215-55	1" NPTF (m)	3/4" NPTF (m)
	8540.102-55	-	3/4"	65'	997.220-55	1" NPTF (m)	3/4" NPTF (m)
	8540.103-55	-	1"	50'	998.215-55	1" NPTF (m)	1" NPTF (m)
	8540.105-55	-	without hose			1/2" NPTF (f)	1/2" NPTF (f)
	8540.106-55	-	1/2"	100'	996.230-55	1/2" NPTF (m)	1/2" NPTF (m)
Series 560	8560.100-55	8562.100-55	without hose			1" NPSM (f)	1" NPTF (f)
	8560.101-55	-	3/4"	100'	997.230-55	1" NPTF (m)	3/4" NPTF (m)
	8560.103-55	-	3/4"	130'	997.240-55	1" NPTF (m)	3/4" NPTF (m)
	8560.104-55	-	1"	65'	998.220-55	1" NPTF (m)	1" NPTF (m)
	8560.105-55	-	1"	100'	998.230-55	1" NPTF (m)	1" NPTF (m)

Series	A	B	C	D	E	F	G	H	1 ft³	lb
290	5.5"	7.3"	7.7"	8.9"	4.3"	12.2"	11.8"	12.6"	1.3	22 ÷ 30
330	5.5"	7.3"	7.7"	8.9"	4.3"	14"	13.8"	14.4"	1.9	24 ÷ 33
390	5.5"	7.3"	7.7"	8.9"	4.3"	15.7"	15.3"	16.1"	2.4	28 ÷ 34
430	5.5"	7.3"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	35 ÷ 46
530	6.0"	8.0"	8.6"	10.1"	4.5"	21.6"	20.0"	22.0"	5.0	48 ÷ 63
540	8.6"	11.8"	9"	10.5"	7.5"	21.6"	20.0"	22.6"	6.2	68 ÷ 85
560	15.7"	19.2"	9.3"	10.7"	14.5"	21.6"	20.0"	22.7"	10.9	112 ÷ 143





# HOT WATER HOSE REELS - 1400 PSI



Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.



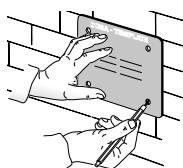
The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.

Seals are in **Viton®**  
Swivel joint in **Stainless Steel**

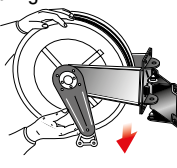
	P/N	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	AISI 304 STAINLESS STEEL	Ø	length	P/N hose		
Series 330	8330.200-55	8332.200-55		without hose		1/2"NPSM (f)	3/8"NPTF (f)
	8330.201-55	-	3/8"	40'	995.313-55	1/2"NPTF (m)	3/8"NPTF (m)
	8330.202-55	-	1/2"	25'	996.307-55	1/2"NPTF (m)	1/2"NPTF (m)
Series 390	8390.200-55	8392.200-55		without hose		1/2"NPSM (f)	3/8"NPTF (f)
	8390.201-55	-	3/8"	40'	995.313-55	1/2"NPTF (m)	3/8"NPTF (m)
	8390.202-55	-	3/8"	56'	995.318-55	1/2"NPTF (m)	3/8"NPTF (m)
Series 430	8430.200-55	8434.200-55		without hose		1/2"NPSM (f)	1/2"NPSM (f)
	8430.201-55	-	1/2"	35'	996.311-55	1/2"NPTF (m)	1/2"NPTF (m)
	8430.202-55	-	1/2"	50'	996.316-55	1/2"NPTF (m)	1/2"NPTF (m)
Series 530	8530.200-55	8534.200-55		without hose		1/2"NPSM (f)	1/2"NPSM (f)
	8530.201-55	-	1/2"	65'	996.321-55	1/2"NPTF (m)	1/2"NPTF (m)
	8530.202-55	-	1/2"	80'	996.326-55	1/2"NPTF (m)	1/2"NPTF (m)
Series 540	8540.200-55	8544.200-55		without hose		1"NPSM (f)	1"NPSM (f)
	8540.201-55	-	3/4"	50'	997.315-55	1"NPTF (m)	3/4"NPTF (m)
	8540.202-55	-	3/4"	65'	997.320-55	1"NPTF (m)	3/4"NPTF (m)
	8540.203-55	-	1"	50'	998.315-55	1"NPTF (m)	1"NPTF (m)
Series 560	8560.200-55	8564.200-55		without hose		1"NPSM (f)	1"NPSM (f)
	8560.201-55	-	3/4"	100'	997.330-55	1"NPTF (m)	3/4"NPTF (m)
	8560.203-55	-	3/4"	130'	997.340-55	1"NPTF (m)	3/4"NPTF (m)
	8560.204-55	-	1"	65'	998.320-55	1"NPTF (m)	1"NPTF (m)
	8560.205-55	-	1"	100'	998.330-55	1"NPTF (m)	1"NPTF (m)

## INSTALLATION

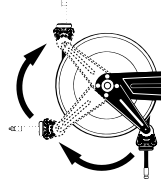
The template supplied facilitates drilling of the holes and therefore hose reel fixing



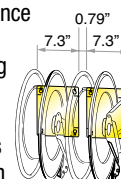
The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request



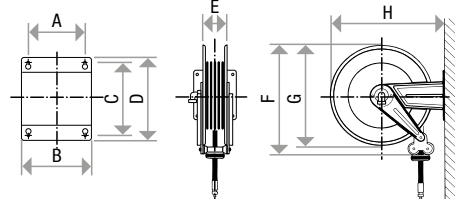
The adjustable arms can be easily repositioned according to needs



For installing several hose reels in series, follow the distance between bracket and bracket as per drawing in order to keep them aligned with eventual drip-catchers assembled underneath



Series	A	B	C	D	E	F	G	H	1 ft³	lb
330	5.5"	7.3"	7.7"	8.9"	4.3"	14"	13.8"	14.4"	1.9	24 ÷ 31
390	5.5"	7.3"	7.7"	8.9"	4.3"	15.7"	15.3"	16.1"	2.4	28 ÷ 37
430	5.5"	7.3"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	35 ÷ 49
530	6.0"	8.0"	8.6"	10.1"	4.5"	21.6"	20.0"	22.0"	5.0	48 ÷ 70
540	8.6"	11.8"	9"	10.5"	7.5"	21.6"	20.0"	22.6"	6.2	65 ÷ 97
560	15.7"	19.2"	9.3"	10.7"	14.5"	21.6"	20.0"	22.7"	10.9	110 ÷ 176







# HOT WATER HOSE REELS - 3000 PSI



Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.



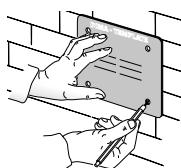
The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.

Seals are in **Viton®**  
Seals are in **Teflon®** for water 5800 psi  
Swivel joint in **Stainless Steel**

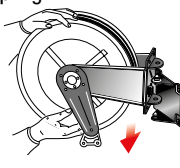
	P/N	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	AISI 304 STAINLESS STEEL	Ø	length	P/N hose		
<b>Series 330</b>	8330.300-55	8332.300-55	without hose			3/8"NPSM (f)	3/8" NPTF (f)
	8330.301-55	-	5/16"	40'	994.512-55	3/8"NPTF (m)	3/8" NPTF (m)
<b>Series 390</b>	8390.300-55	8392.300-55	without hose			3/8"NPSM (f)	3/8" NPTF (f)
	8390.301-55	-	5/16"	40'	994.512-55	3/8"NPTF (m)	3/8" NPTF (m)
	8390.302-55	-	5/16"	56'	994.517-55	3/8"NPTF (m)	3/8" NPTF (m)
<b>Series 430</b>	8430.300-55	8434.300-55	without hose			3/8"NPSM (f)	3/8"NPSM (f)
	8430.301-55	-	3/8"	40'	995.512-55	3/8"NPTF (m)	3/8"NPSM (f)
	8430.302-55	-	3/8"	60'	995.518-55	3/8"NPTF (m)	3/8"NPSM (f)
<b>Series 530</b>	8530.300-55	8534.300-55	without hose			3/8"NPSM (f)	3/8"NPSM (f)
	8530.301-55	-	3/8"	65'	995.520-55	3/8"NPTF (m)	3/8"NPSM (f)
	8530.302-55	-	3/8"	80'	995.525-55	3/8"NPTF (m)	3/8"NPSM (f)
<b>Series 530</b> 5800 psi	8530.350-55	8534.350-55	without hose			3/8"NPSM (f)	3/8"NPSM (f)
	8530.351-55	-	3/8"	65'	995.820-55	3/8"NPTF (m)	3/8"NPSM (f)
<b>Series 540</b>	8540.300-55	8544.300-55	without hose			3/8"NPSM (f)	3/8"NPSM (f)
	8540.301-55	-	3/8"	100'	995.530-55	3/8"NPTF (m)	3/8"NPSM (f)
<b>Series 540</b> 5800 psi	8540.350-55	-	without hose			3/8"NPTF (f)	3/8"NPSM (f)
	8540.351-55	-	3/8"	100'	995.830-55	3/8"NPTF (m)	3/8"NPSM (f)
<b>Series 560</b>	8560.300-55	8564.300-55	without hose			3/8"NPSM (f)	3/8"NPSM (f)
	8560.301-55	-	3/8"	130'	995.540-55	3/8"NPTF (m)	3/8"NPSM (f)
	8560.302-55	-	3/8"	165'	995.550-55	3/8"NPTF (m)	3/8"NPSM (f)

## INSTALLATION

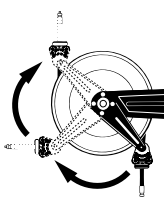
The template supplied facilitates drilling of the holes and therefore hose reel fixing



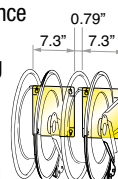
The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request



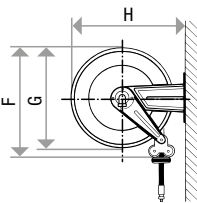
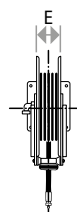
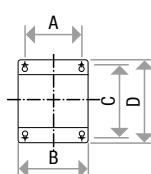
The adjustable arms can be easily repositioned according to needs



For installing several hose reels in series, follow the distance between bracket and bracket as per drawing in order to keep them aligned with eventual drip-catchers assembled underneath



Series	A	B	C	D	E	F	G	H	1 ft³	lb
330	5.5"	7.3"	7.7"	8.9"	4.3"	14"	13.8"	14.4"	1.9	26 ÷ 32
390	5.5"	7.3"	7.7"	8.9"	4.3"	15.7"	15.3"	16.1"	2.4	30 ÷ 40
430	5.5"	7.3"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	36 ÷ 49
530	6.0"	8.0"	8.6"	10.1"	4.5"	21.6"	20.0"	22.0"	5.0	50 ÷ 68
540	8.6"	11.8"	9"	10.5"	7.5"	21.6"	20.0"	22.6"	6.2	66 ÷ 83
560	15.7"	19.2"	9.3"	10.7"	14.5"	21.6"	20.0"	22.7"	10.9	113 ÷ 143





# OIL AND SIMILAR HOSE REELS - 2000 PSI



Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.



The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.

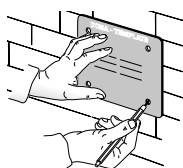
Seals are in **PU**

Swivel joint is in **zinc plated steel** for the painted steel version, and in **stainless steel** for the stainless steel version

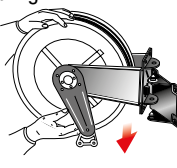
	P/N	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	AISI 304 STAINLESS STEEL	Ø	length	P/N hose		
Series 330	8330.400-55	8332.200-55	without hose			1/2"NPSM (f)	3/8"NPTF (f)
	8330.401-55	-	1/2"	25'	996.308-55	1/2"NPTF (m)	1/2" NPTF (m)
	8330.402-55	-	3/8"	40'	995.312-55	1/2"NPTF (m)	1/2" NPTF (m)
Series 390	8390.400-55	8392.200-55	without hose			1/2"NPSM (f)	3/8"NPTF (f)
	8390.401-55	-	3/8"	40'	995.312-55	1/2"NPTF (m)	1/2"NPTF (m)
	8390.402-55	-	3/8"	56'	995.317-55	1/2"NPTF (m)	1/2"NPTF (m)
Series 430	8430.400-55	8434.200-55	without hose			1/2"NPSM (f)	1/2"NPSM (f)
	8430.401-55	-	1/2"	35'	996.310-55	1/2"NPTF (m)	1/2"NPTF (m)
	8430.402-55	-	1/2"	50'	996.315-55	1/2"NPTF (m)	1/2"NPTF (m)
Series 530	8530.400-55	8534.200-55	without hose			1/2"NPSM (f)	1/2"NPSM (f)
	8530.401-55	-	1/2"	65'	996.320-55	1/2"NPTF (m)	1/2"NPTF (m)
	8530.402-55	-	1/2"	80'	996.325-55	1/2"NPTF (m)	1/2"NPTF (m)
Series 540 1400 psi	8540.400-55	8544.200-55	without hose			1"NPSM (f)	1"NPSM (f)
	8540.406-55	-	1/2"	100'	996.330-55	1/2"NPTF (m)	1/2"NPTF (m)
	8540.411-55	-	3/4"	50'	997.3315-55	1"NPTF (m)	3/4"NPTF (m)
	8540.412-55	-	3/4"	65'	997.3320-55	1"NPTF (m)	3/4"NPTF (m)
Series 540 725 psi	8540.413-55	-	1"	50'	998.3315-55	1"NPTF (m)	1"NPTF (m)
Series 560 1400 psi	8560.400-55	8564.200-55	without hose			1"NPSM (f)	1"NPSM (f)
	8560.411-55	-	3/4"	100'	997.530-55	1"NPTF (m)	3/4"NPTF (m)
	8560.413-55	-	3/4"	130'	997.540-55	1"NPTF (m)	3/4"NPTF (m)
Series 560 725 psi	8560.414-55	-	1"	65'	998.520-55	1"NPTF (m)	1"NPTF (m)
	8560.415-55	-	1"	100'	998.530-55	1"NPTF (m)	1"NPTF (m)

## INSTALLATION

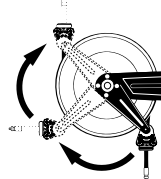
The template supplied facilitates drilling of the holes and therefore hose reel fixing



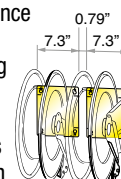
The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request



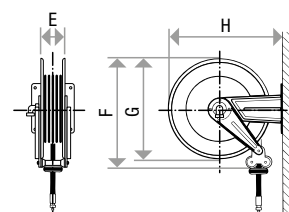
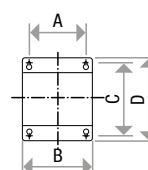
The adjustable arms can be easily repositioned according to needs



For installing several hose reels in series, follow the distance between bracket and bracket as per drawing in order to keep them aligned with eventual drip-catchers assembled underneath



Series	A	B	C	D	E	F	G	H	1 ft <sup>3</sup>	lb
330	5.5"	7.3"	7.7"	8.9"	4.3"	14"	13.8"	14.4"	1.9	28 ÷ 36
390	5.5"	7.3"	7.7"	8.9"	4.3"	15.7"	15.3"	16.1"	2.4	30 ÷ 42
430	5.5"	7.3"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	37 ÷ 49
530	6.0"	8.0"	8.6"	10.1"	4.5"	21.6"	20.0"	22.0"	5.0	49 ÷ 69
540	8.6"	11.8"	9"	10.5"	7.5"	21.6"	20.0"	22.6"	6.2	65 ÷ 110
560	15.7"	19.2"	9.3"	10.7"	14.5"	21.6"	20.0"	22.7"	10.9	110 ÷ 158







# GREASE HOSE REELS - 5800 PSI



Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.



The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.

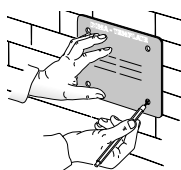
Seals are in **PU**

Swivel joint is in **zinc plated steel** for the painted steel version, and in **stainless steel** for the stainless steel version

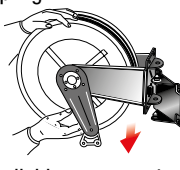
	P/N	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	AISI 304 STAINLESS STEEL	ø	length	P/N hose		
<b>Series 330</b>	8330.500-55	8332.500-55	without hose			3/8"NPSM (f)	3/8"NPTF (f)
	8330.501-55	-	1/4"	40'	993.511-55	3/8"NPTF (m)	1/4"NPTF (f)
<b>Series 390</b>	8390.500-55	8392.500-55	without hose			3/8"NPSM (f)	3/8"NPTF (f)
	8390.501-55	-	1/4"	40'	993.511-55	3/8"NPTF (m)	1/4"NPTF (m)
	8390.502-55	-	1/4"	52'	993.516-55	3/8"NPTF (m)	1/4"NPTF (m)
<b>Series 430</b>	8430.500-55	8432.500-55	without hose			3/8"NPSM (f)	3/8"NPSM (f)
	8430.501-55	-	1/4"	40'	993.511-55	3/8"NPTF (m)	1/4"NPTF (m)
	8430.502-55	-	1/4"	60'	993.518-55	3/8"NPTF (m)	1/4"NPTF (m)
	8430.505-55	-	3/8"	35'	995.710-55	3/8"NPTF (m)	1/4"NPTF (m)
	8430.506-55	-	3/8"	50'	995.715-55	3/8"NPTF (m)	1/4"NPTF (m)
<b>Series 530</b>	8530.500-55	8532.500-55	without hose			3/8"NPSM (f)	3/8"NPSM (f)
	8530.501-55	-	3/8"	65'	995.720-55	3/8"NPTF (m)	1/4"NPTF (m)
	8530.502-55	-	3/8"	80'	995.725-55	3/8"NPTF (m)	1/4"NPTF (m)

## INSTALLATION

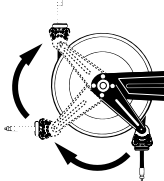
The template supplied facilitates drilling of the holes and therefore hose reel fixing



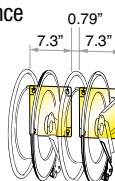
The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request



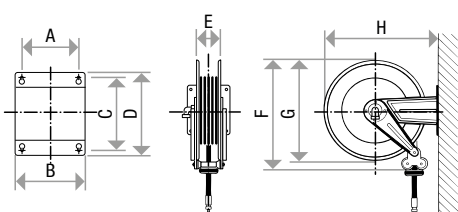
The adjustable arms can be easily repositioned according to needs



For installing several hose reels in series, follow the distance between bracket and bracket as per drawing in order to keep them aligned with eventual drip-catchers assembled underneath



Series	A	B	C	D	E	F	G	H	1 ft³	lb
330	5.5"	7.3"	7.7"	8.9"	4.3"	14"	13.8"	14.4"	1.9	28 ÷ 33
390	5.5"	7.3"	7.7"	8.9"	4.3"	15.7"	15.3"	16.1"	2.4	30 ÷ 42
430	5.5"	7.3"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	37 ÷ 52
530	6.0"	8.0"	8.6"	10.1"	4.5"	21.6"	20.0"	22.0"	5.0	50 ÷ 80





# DIESEL FUEL HOSE REELS - 140 PSI



Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.



The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.

Seals are in **Viton®**  
Swivel joint in **Brass**

	P/N	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	AIISI 304 STAINLESS STEEL	Ø	length	P/N hose		
Series 530	8530.150-55	-	without hose			1"NPSM (f)	1"NPSM (f)
	8530.603-55	-	3/4"	40'	997.812-55	1"NPTF (m)	3/4"NPTF (m)
	8530.604-55	-	1"	25'	998.808-55	1"NPTF (m)	1"NPTF (m)
Series 540	8540.100-55	8542.100-55	without hose			1"NPSM (f)	1"NPSM (f)
	8540.601-55	-	3/4"	50'	997.815-55	1"NPTF (m)	3/4"NPTF (m)
	8540.602-55	-	3/4"	65'	997.820-55	1"NPTF (m)	3/4"NPTF (m)
	8540.603-55	-	1"	50'	998.815-55	1"NPTF (m)	1"NPTF (m)
Series 560	8560.100-55	8562.100-55	without hose			1"NPSM (f)	1"NPSM (f)
	8560.601-55	-	3/4"	100'	997.830-55	1"NPTF (m)	3/4"NPTF (m)
	8560.602-55	-	3/4"	115'	997.835-55	1"NPTF (m)	3/4"NPTF (m)
	8560.603-55	-	3/4"	130'	997.840-55	1"NPTF (m)	3/4"NPTF (m)
	8560.604-55	-	1"	65'	998.820-55	1"NPTF (m)	1"NPTF (m)
	8560.605-55	-	1"	100'	998.830-55	1"NPTF (m)	1"NPTF (m)

## WASTE OIL-DIESEL FUEL - SUCTION/DELIVERY

	P/N	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	AIISI 304 STAINLESS STEEL	Ø	length	P/N hose		
Series 430	8430.401/AS-55	-	1/2"	35'	996.310-55	1/2"NPTF (m)	1/2"NPTF (m)
	8430.450/AS-55	-	without hose			1"NPSM (f)	1"NPSM (f)
	8430.452/AS-55	-	3/4"	25'	997.3309-55	1"NPTF (m)	3/4"NPTF (m)
Series 540	8540.413/AS-55	-	1"	50'	998.3315-55	1"NPTF (m)	1"NPTF (m)

Series	A	B	C	D	E	F	G	H	1 ft³	lb		
430	5.5"	7.3"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	46		
530	6.0"	8.0"	8.6"	10.1"	4.5"	21.6"	20.0"	22.0"	5.0	48 ÷ 67		
540	8.6"	11.8"	9"	10.5"	7.5"	21.6"	20.0"	22.6"	6.2	68 ÷ 90		
560	15.7"	19.2"	9.3"	10.7"	14.5"	21.6"	20.0"	22.7"	10.9	110 ÷ 162		

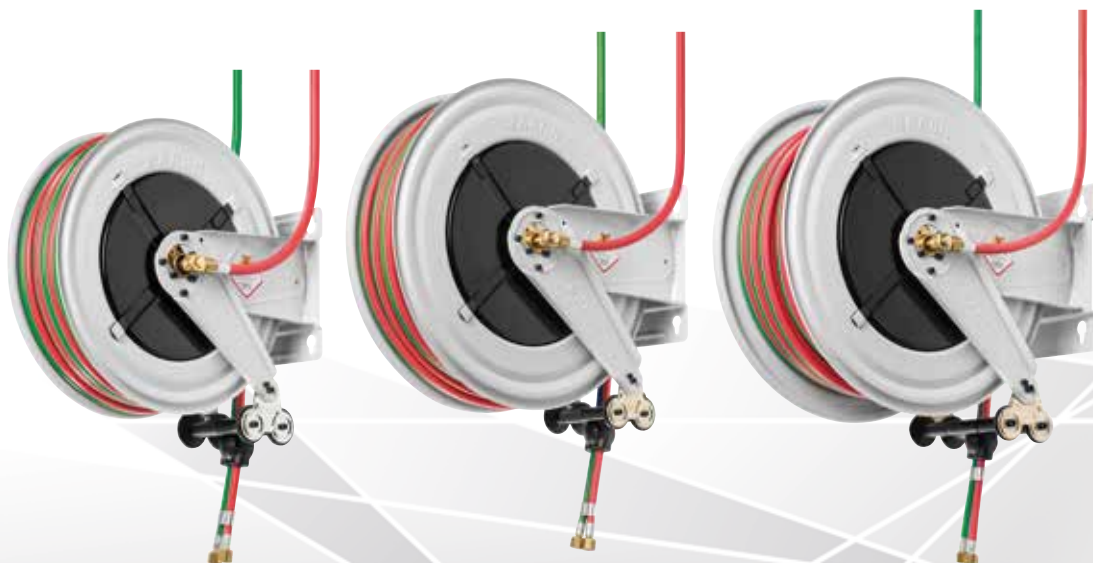


# WELDING HOSE REELS - 250 PSI

**Hose reels suitable for twin hose for welding with brass fittings.**

The hose reels are equipped with a universal hose stop. Connections are left and right hand thread. (left hand for acetylene and right hand for oxygen).

**Note:** all the hose reels are without hose

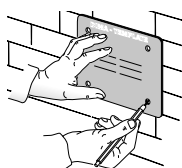


	P/N	Delivery hose	Inlet connection	Outlet connection
<b>Series 430</b>	<b>8430.700-55</b>	without hose	9/16"UNF (m)	9/16"UNF (m)
<b>Series 530</b>	<b>8530.700-55</b>	without hose	9/16"UNF (m)	9/16"UNF (m)
<b>Series 540</b>	<b>8540.700-55</b>	without hose	9/16"UNF (m)	9/16"UNF (m)

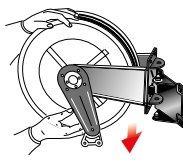
■ In the twin hose the green one is provided with right hand thread. The red one is provided with left hand thread in order to avoid wrong connection.

## INSTALLATION

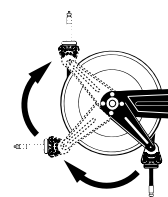
The template supplied facilitates drilling of the holes and therefore hose reel fixing



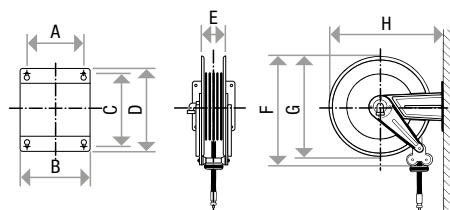
The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request



The adjustable arms can be easily repositioned according to needs



Series	A	B	C	D	E	F	G	H	1 ft³	lb
<b>430</b>	7.3"	5.5"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	41
<b>530</b>	8.0"	6.0"	8.6"	10.1"	4.5"	21.6"	20.0"	22.0"	5.0	51
<b>540</b>	11.8"	8.5"	8.9"	10.5"	7.4"	21.6"	20.0"	22.5"	6.2	67



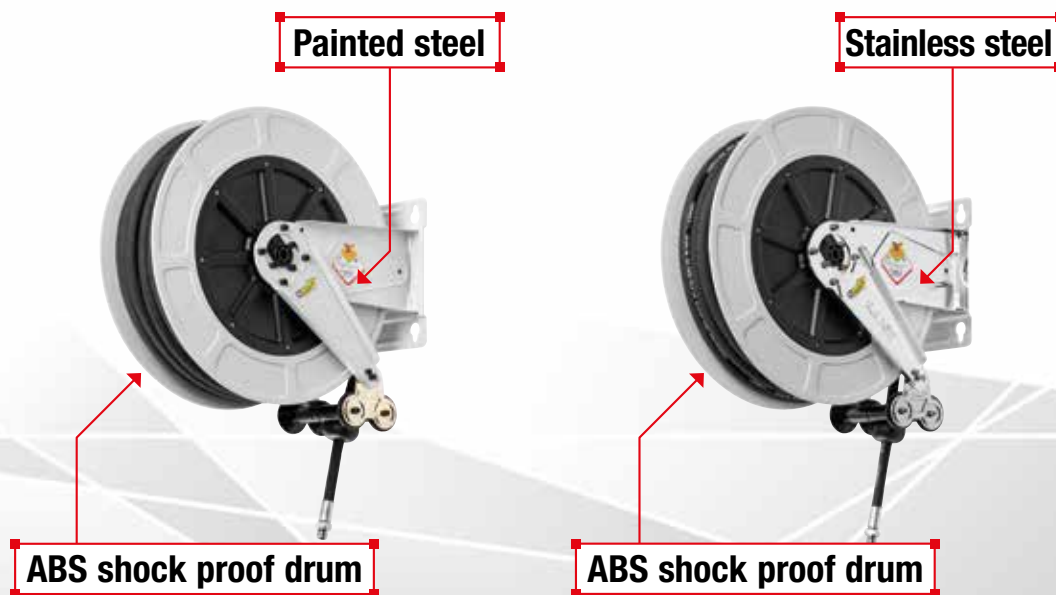


# SERIES 430 ABS

**Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.**

The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.

Swivel joint + Seals material	Version
Brass + Viton®	Air - Water
Stainless Steel + Viton®	Hot Water 1400 psi 3000 psi
Zinc Plated Steel + PU	Oil and Grease

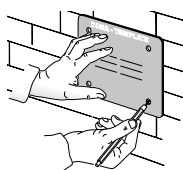


	P/N	Delivery hose			Inlet connection	Outlet connection
		ø	length	P/N hose		
Air - Water 300 psi	9430.100-55			without hose	1/2"NPSM (f)	1/2"NPSM (f)
	9430.101-55	3/8"	40'	995.211-55	1/2"NPSM (f)	3/8"NPTF (m)
	9430.102-55	3/8"	60'	995.217-55	1/2"NPSM (f)	3/8"NPTF (m)
	9430.103-55	1/2"	35'	996.210-55	1/2"NPSM (f)	1/2"NPSM (f)
	9430.104-55	1/2"	50'	996.215-55	1/2"NPSM (f)	1/2"NPSM (f)
Hot water 1400 psi	9430.200-55			without hose	1/2"NPSM (f)	1/2"NPSM (f)
	9430.201-55	1/2"	35'	996.311-55	1/2"NPTF (m)	1/2"NPTF (m)
	9430.202-55	1/2"	50'	996.316-55	1/2"NPTF (m)	1/2"NPTF (m)
Hot water 3000 psi	9430.300-55			without hose	3/8"NPSM (f)	3/8"NPSM (f)
	9430.301-55	3/8"	40'	995.512-55	3/8"NPTF (m)	3/8"NPSM (f)
	9430.302-55	3/8"	60'	995.518-55	3/8"NPTF (m)	3/8"NPSM (f)
Oil 2000 psi	9430.400-55			without hose	1/2"NPSM (f)	1/2"NPSM (f)
	9430.401-55	1/2"	35'	996.310-55	1/2"NPTF (m)	1/2"NPTF (m)
	9430.402-55	1/2"	50'	996.315-55	1/2"NPTF (m)	1/2"NPTF (m)
Grease 5800 psi	9430.500-55			without hose	3/8"NPSM (f)	3/8"NPSM (f)
	9430.501-55	1/4"	40'	993.511-55	3/8"NPTF (m)	1/4"NPTF (m)
	9430.502-55	1/4"	60'	993.518-55	3/8"NPTF (m)	1/4"NPTF (m)
	9430.505-55	3/8"	35'	995.710-55	3/8"NPTF (m)	1/4"NPTF (m)
	9430.506-55	3/8"	50'	995.715-55	3/8"NPTF (m)	1/4"NPTF (m)

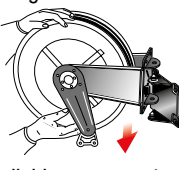
	P/N	Delivery hose			Inlet connection	Outlet connection
		ø	length	P/N hose		
9432.100-55	9432.100-55			without hose	1/2"NPSM (f)	1/2"NPSM (f)
	9432.101-55	3/8"	40'	995.211-55	1/2"NPSM (f)	3/8"NPTF (m)
	9432.102-55	3/8"	60'	995.217-55	1/2"NPSM (f)	3/8"NPTF (m)
	9432.103-55	1/2"	35'	996.210-55	1/2"NPSM (f)	1/2"NPSM (f)
	9432.104-55	1/2"	50'	996.215-55	1/2"NPSM (f)	1/2"NPSM (f)
9434.200-55	9434.200-55			without hose	1/2"NPSM (f)	1/2"NPSM (f)
	9432.201-55	1/2"	35'	996.311-55	1/2"NPTF (m)	1/2"NPTF (m)
	9432.202-55	1/2"	50'	996.316-55	1/2"NPTF (m)	1/2"NPTF (m)
9434.300-55	9434.300-55			without hose	3/8"NPSM (f)	3/8"NPSM (f)
	9432.301-55	3/8"	40'	995.512-55	3/8"NPTF (m)	3/8"NPSM (f)
	9432.302-55	3/8"	60'	995.518-55	3/8"NPTF (m)	3/8"NPSM (f)

## INSTALLATION

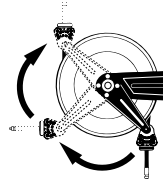
The template supplied facilitates drilling of the holes and therefore hose reel fixing



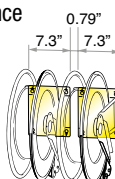
The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request



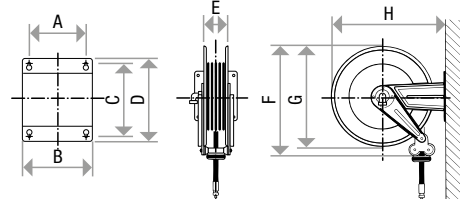
The adjustable arms can be easily repositioned according to needs



For installing several hose reels in series, follow the distance between bracket and bracket as per drawing in order to keep them aligned with eventual drip-catchers assembled underneath



Series	A	B	C	D	E	F	G	H	1 ft³	lb
430	5.5"	7.3"	7.7"	8.9"	4.5"	18.1"	16.5"	18.1"	3.0	31 ÷ 44





## SERIES 280 ABS ENCLOSED

## SERIES 260 ABS ENCLOSED

This series includes a range of enclosed hose reels designed to be used in those sectors that due to environmental conditions, technical or aesthetic reasons require enclosed hose reel application. S. 260 and S. 280 are both made in shock resistant ABS case. They are both equipped with polyurethane hose various sizes and length. 5' inlet hose is included. Outlet connection equipped with swivelling male thread.



	P/N	Delivery hose			Inlet connection	Outlet connection
		ø	length	P/N hose		
Air - Water 300 psi	92808.102-55	5/16"	46'	971.114-55	3/8"NPTF (m)	1/4"NPTF (m)
	92808.105-55	3/8"	26'+3'	972.109-55	3/8"NPTF (m)	3/8"NPTF (m)

	P/N	Delivery hose			Inlet connection	Outlet connection
		ø	length	P/N hose		
	89010-55	5/16"	36'	971.111-55	1/4"NPTF (m)	1/4"NPTF (m)

Packaging - Weight	No. 1 1.5 ft <sup>3</sup> lb 15.4 ÷ 18.7
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No. 1 0.9 ft <sup>3</sup> lb 14
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### P/N 89003-55

Bayonet bracket; it allows an easier hose movement of the reel in the various workstations

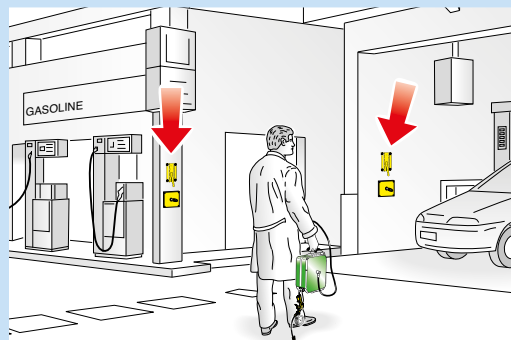


### P/N 89001-55

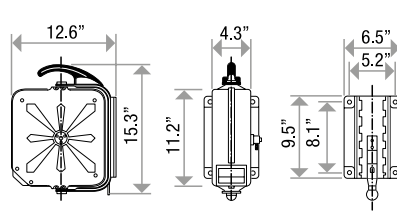
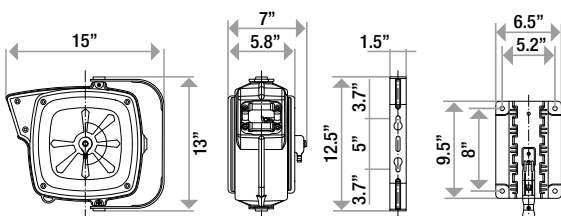
Wall bracket; to buy separately in case you want to create multiple points for fitting the hose reel provided with bayonet bracket.



### USES



### OVERALL DIMENSIONS inches







# SERIES 450 ENCLOSED HOSE REELS

This series includes a range of enclosed hose reels, with painted steel carter, designed to be used in those sectors that due to technical or aesthetic reasons require enclosed hose reel application.



Swivel joint + Seals material	Version
Brass + Viton®	Air - Water Antifreeze
Painted Steel + PU	Oil and Grease

	P/N	Delivery hose			Inlet connection	Outlet connection
	PAINTED STEEL	Ø	length	P/N hose		
Air - Water - Antifreeze 300 psi	9450.100-55	without hose			1/2" NPSM (f)	1/2" NPSM (f)
	9450.101-55	3/8"	40'	995.211-55	1/2" NPTF (m)	3/8" NPTF (m)
	9450.102-55	3/8"	60'	995.217-55	1/2" NPTF (m)	3/8" NPTF (m)
	9450.103-55	1/2"	35'	996.210-55	1/2" NPTF (m)	1/2" NPTF (m)
	9450.104-55	1/2"	50'	996.215-55	1/2" NPTF (m)	1/2" NPTF (m)
Oil and similar 2000 psi	9450.400-55	without hose			1/2" NPSM (f)	1/2" NPSM (f)
	9450.401-55	1/2"	35'	996.310-55	1/2" NPTF (m)	1/2" NPTF (m)
	9450.402-55	1/2"	50'	996.315-55	1/2" NPTF (m)	1/2" NPTF (m)
Grease 5800 psi	9450.500-55	without hose			3/8" NPSM (f)	3/8" NPSM (f)
	9450.501-55	1/4"	40'	993.511-55	3/8" NPTF (m)	1/4" NPTF (m)
	9450.502-55	1/4"	60'	993.518-55	3/8" NPTF (m)	1/4" NPTF (m)
	9450.505-55	3/8"	35'	995.710-55	3/8" NPTF (m)	1/4" NPTF (m)
	9450.506-55	3/8"	50'	995.715-55	3/8" NPTF (m)	1/4" NPTF (m)
Packaging - Weight	No. 1 3.9 ft³ lb 42 ÷ 56					

EXAMPLE OF INSTALLATION	<p>It is possible to fix wall bracket on different side according to needs</p> <div> <div>Standard installation</div> <div>Wall installation</div> <div>Bench installation</div> <div>Ceiling installation</div> </div>			
	<p>The template supplied facilitates drilling of the holes and therefore hose reel fixing</p> <p>The adjustable arms can be easily repositioned according to needs</p> <p>For installing several hose reels in series, follow the distance between bracket and bracket as per drawing in order to keep them aligned with eventual drip-catchers assembled underneath</p>			
INSTALLATION	<p>OVERALL DIMENSIONS inches</p>			



## SERIES 436 DEF

## SERIES 537 DEF

**Hose reels with hoses in black synthetic rubber and zinc plated steel fittings.**

The hose reels are equipped with a universal hose stop; those with hose are provided with a 2' inlet connection hose.



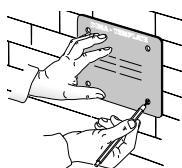
P/N		Delivery hose		Inlet connection	Outlet connection	
		ø	length			P/N hose
DEF 140 psi	8436.250-55	without hose		1"NPSM (f)	3/4"NPSM (f)	
	8436.251-55	3/4"	35'	987.210-55	3/4"NPTF (m)	3/4"NPTF (m)
	8436.252-55	3/4"	50'	987.215-55	3/4"NPTF (m)	3/4"NPTF (m)
Packaging - Weight		No. 1 4.3 ft³ lb 42 ÷ 93				

P/N		Delivery hose		Inlet connection	Outlet connection
		ø	length		
8534.250-55	without hose	1"NPSM (f)	3/4"NPSM (f)		
Packaging - Weight		No. 1 4.2 ft³ lb 42			

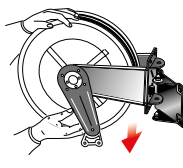
■ Hose reels for DEF, the fluid used in SCR systems which are present in new trucks, have been purposely designed by using stainless steel AISI 304 for those parts which get in contact with the fluid, avoiding in this way any contamination of the same fluid.

### INSTALLATION

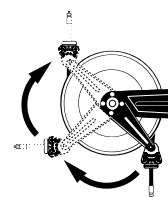
The template supplied facilitates drilling of the holes and therefore hose reel fixing



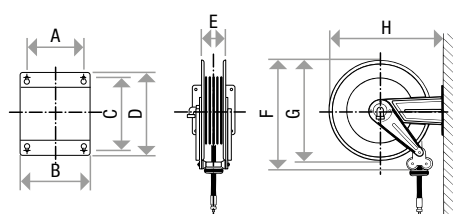
The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request



The adjustable arms can be easily repositioned according to needs



Series	A	B	C	D	E	F	G	H	1 ft³	lb
<b>436</b>	11.9"	13.3"	6.3"	8"	5.9"	17.7"	16.3"	17.9"	3.0	48 ÷ 66
<b>537</b>	6.0"	8.0"	8.7"	10.1"	4.0"	21.0"	20.0"	22.0"	4.2	68





# SERIES 350 GROUNDING REELS

**Grounding reels**  
satisfies the need to  
ground fuel tanks  
during transferring  
operation in order to  
discharge electric  
charges.



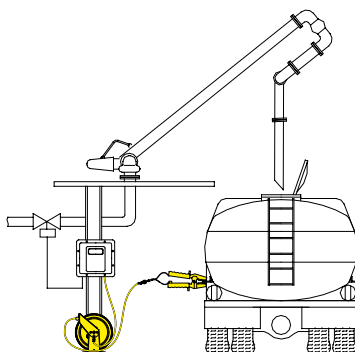
**APPLICATIONS:**  
tanks and oil-refinery, aviation,  
tank truck, boating.



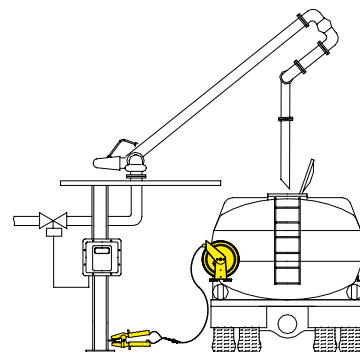
P/N	Cable material	Insulation	Cable cross section	Cable length	Grounding clamp
<b>735000-55</b>	without cable		max cable capacity 98' - cross section 0.025 inches <sup>2</sup>		
<b>735131.60141-55</b>	copper	PUR	0.009 inches <sup>2</sup>	48'	antiexplosive 10A
<b>735131.60261-55</b>	copper	PUR	0.009 inches <sup>2</sup>	85'	antiexplosive 10A
<b>735131.60152-55</b>	copper	PUR	0.009 inches <sup>2</sup>	49'	standard 50A
<b>735131.60252-55</b>	copper	PUR	0.009 inches <sup>2</sup>	82'	standard 50A
<b>735141.60152-55</b>	steel	PVC	0.28x0.28" Ø 0.20"	49'	standard 50A
<b>735141.60252-55</b>	steel	PVC	0.28x0.28" Ø 0.20"	82'	standard 50A

## Operation:

Before begin fuel transfer operator must connect the grounding clamp, mounted at the end of the cable, to the grounding plate which is compulsory on every tank truck (Pic. A). As an alternative the grounding reel may be installed on the tank truck and the clamp connected to the grounding plate (Pic. B). Antiexplosive clamp, standard on some models below listed, may be installed in a potential explosive area (Zone 1) as specified in the CE declaration.



Pic. A

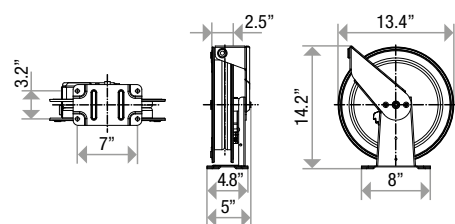


Pic. B

**P/N 735111-55**  
Standard grounding  
clamp 100A



OVERALL DIMENSIONS inches



No.1 packing 1.6 ft<sup>3</sup> from 23 to 25 lb



## SERIES 617 HYDRAULIC

## SERIES 637 HYDRAULIC

Hose reels equipped with hydraulic motor, suitable to rewind 1" or 1-1/2" hoses of various length (see page 109 for hose max rewinding length).

Swivel joint + Seals material	Version
Brass + Viton®	Air - Water Diesel fuel
Stainless Steel + Viton®	Hot water 1400 psi
Zinc Plated Steel + PU	Oil and Grease



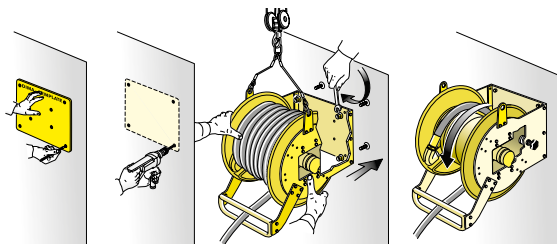
	P/N	Delivery hose		Inlet connection	Outlet connection
		Ø	length		
Air - Water 300 psi	8617.100-55		without hose	1"NPSM (f)	1"NPSM (f)
Hot water 1400 psi	8617.200-55		without hose	1"NPSM (f)	1"NPSM (f)
Oil and similar 2000 psi	8617.400-55		without hose	1"NPSM (f)	1"NPSM (f)
Grease 5800 psi	8617.500-55		without hose	1"NPSM (f)	1"NPSM (f)
Diesel fuel 140 psi	8617.600-55		without hose	1-1/2"NPSM (f)	1-1/2"NPTF (f)

	P/N	Delivery hose		Inlet connection	Outlet connection
		Ø	length		
	8637.100-55		without hose	1"NPSM (f)	1"NPSM (f)
	8637.200-55		without hose	1/2"NPSM (f)	1/2"NPSM (f)
	8637.400-55		without hose	1"NPSM (f)	1"NPSM (f)
	8637.500-55		without hose	1"NPSM (f)	1"NPSM (f)
	8637.600-55		without hose	1-1/2"NPSM (f)	1-1/2"NPSM (f)

### INSTALLATION

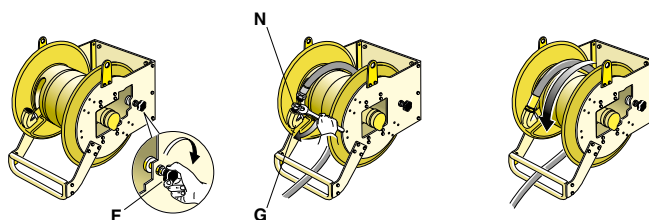
#### WALL MOUNTING OF HYDRAULIC AND AIR MOTOR-OPERATED HOSE REELS

After choosing the ideal position, checking the consistency and thickness of the wall, marking the holes for the plugs (see template supplied with the hose reel) and making sure they do not interfere with hydraulic pipes or electrical wires, proceed with drilling. Fix the plugs in the wall and insert the hose reel in the special seats. Tighten the 4 fixing nuts.

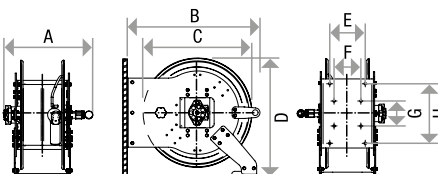


#### ASSEMBLY OF HOSE ON HYDRAULIC OR AIR MOTOR-OPERATED HOSE REELS WITH 1" CONNECTOR

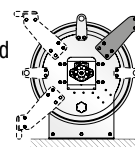
Before carrying out the operation, make sure the hose reel drum is locked by means of the parking brake F. Screw one Nipple N on the outlet elbow G. Apply the hose on Nipple N.



Series	A	B	C	D	E	F	G	H	1 ft³	lb
617	18.2"	27.2"	22.4"	24.4"	7.2"	5.5"	5.1"	12.2"	12.4	121 ÷ 125
637	25.5"	27.2"	22.4"	24.4"	14.6"	5.5"	5.1"	12.2"	0.473	165 ÷ 170



The adjustable arms can be easily repositioned according to needs





## SERIES 618 PNEUMATIC

## SERIES 638 PNEUMATIC

Hose reels equipped with air operated motor, suitable to rewind 1" hoses of various pressure and length (see page 109 for hose max rewinding length).

Swivel joint + Seals material	Version
Brass + Viton®	Air - Water Diesel fuel
Stainless Steel + Viton®	Hot water 1400 psi
Zinc Plated Steel + PU	Oil and Grease

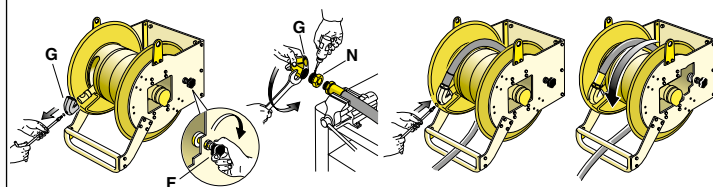


	P/N	Delivery hose			Inlet connection	Outlet connection
		Ø	length	P/N hose		
Air - Water 300 psi	8618.100-55		without hose		1"NPSM (f)	1"NPSM (f)
Hot water 1400 psi	8618.200-55		without hose		1"NPSM (f)	1"NPSM (f)
Oil and similar 2000 psi	8618.400-55		without hose		1"NPSM (f)	1"NPSM (f)
Grease 5800 psi	8618.500-55		without hose		1"NPSM (f)	1"NPSM (f)
Diesel fuel 140 psi	8618.100-55		without hose		1"NPSM (f)	1"NPSM (f)

	P/N	Delivery hose			Inlet connection	Outlet connection
		Ø	length	P/N hose		
	8638.100-55		without hose		1"NPSM (f)	1"NPSM (f)
	8638.200-55		without hose		1"NPSM (f)	1"NPSM (f)
	8638.400-55		without hose		1"NPSM (f)	1"NPSM (f)
	8638.500-55		without hose		1"NPSM (f)	1"NPSM (f)
	8638.100-55		without hose		1"NPSM (f)	1"NPSM (f)

### ASSEMBLY OF HOSE ON HYDRAULIC MOTOR-OPERATED HOSE REELS WITH 1-1/2" CONNECTOR

Before carrying out the operation, make sure the hose reel drum is locked by means of the parking brake F. Remove the outlet elbow G. Screw one Nipple N on the outlet elbow G. Apply the hose on Nipple N. Refit the outlet elbow G with the assembled parts.



### HYDRAULIC AND AIR MOTOR-OPERATED HOSE REEL FEED

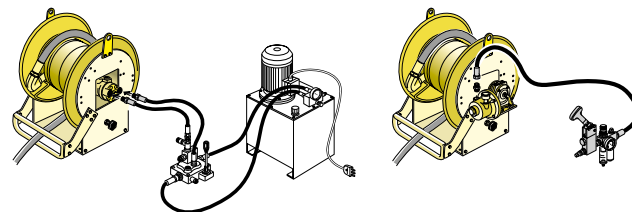
The hydraulic motor-operated hose reels are fed, by an electric control unit (control and control unit not supplied). The air motor-operated hose reels are fed, by means of a control, with direct connection to the compressed air system (control not supplied).

#### ■ HYDRAULIC HOSE REELS

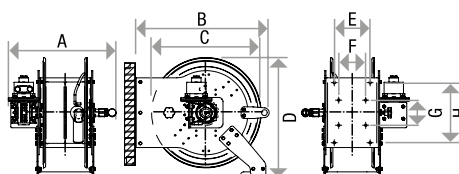
Oil pressure max 2460 psi  
at 1.32 gpm inlet feeding

#### ■ PNEUMATIC HOSE REELS

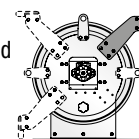
Air pressure max 100 psi  
at 70.6 cfm air consumption



Series	A	B	C	D	E	F	G	H	1 ft³	lb
618	21.8"	27.2"	22.4"	24.4"	7.2"	5.5"	5.1"	12.2"	12.4	112 ÷ 115
638	29.1"	27.2"	22.4"	24.4"	14.6"	5.5"	5.1"	12.2"	16.7	156 ÷ 160



The adjustable arms can be easily repositioned according to needs





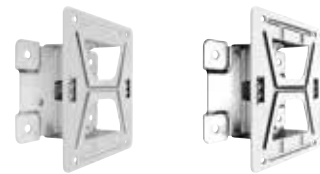
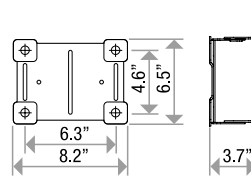
# HOSE REELS ACCESSORIES

## P/N 843005-55

Swivel bracket in steel for fixed hose reels in painted steel series 290 - 330 - 390 - 430

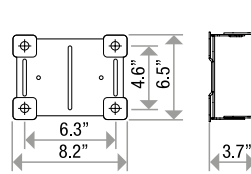
## P/N 843006-55

Swivel bracket in AISI 304 stainless steel for fixed hose reels in stainless steel series 290 - 330 - 390 - 430



## P/N 845005-55

Swivel bracket in steel for fixed enclosed hose reels in painted steel series 450

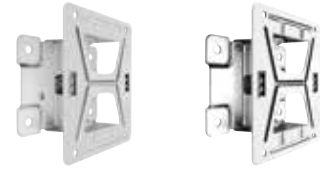
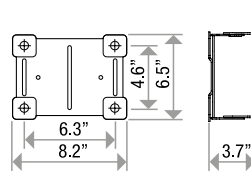


## P/N 853005-55

Swivel bracket in steel for fixed hose reels in painted steel series 530

## P/N 853006-55

Swivel bracket in AISI 304 stainless steel for fixed hose reels in stainless steel series 530

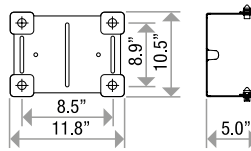


## P/N 854005-55

Swivel bracket in steel for fixed hose reels in painted steel series 540

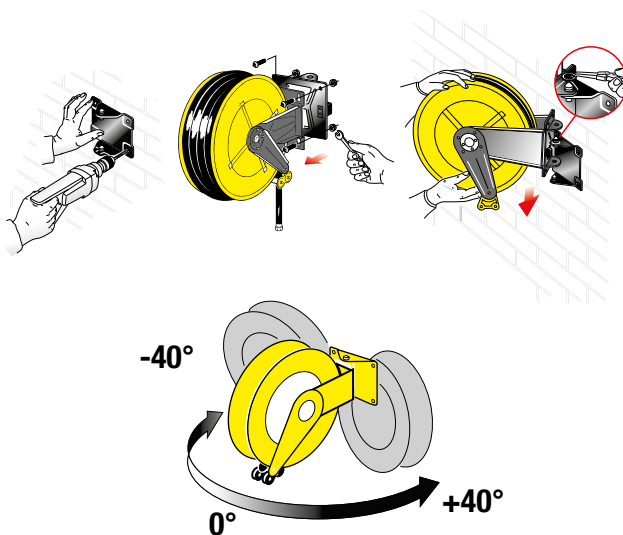
## P/N 854006-55

Swivel bracket in AISI 304 stainless steel for fixed hose reels in stainless steel series 540

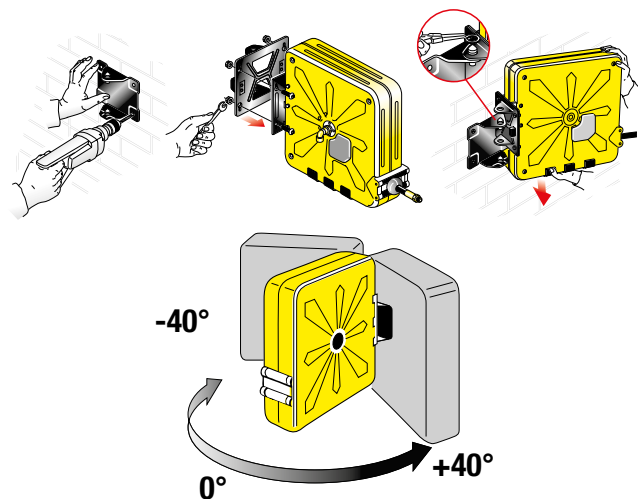


## INSTALLATION WITH SWIVELLING BRACKET (AS OPTION)

The quick coupling adjustable support that enables 40° rotation to the right or left of the hose reel is available on request.

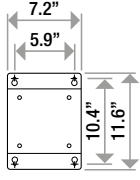

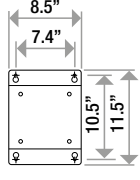

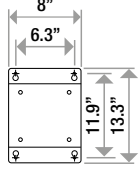

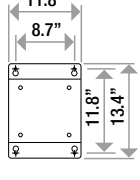

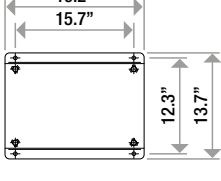



Series 290 - 330 - 390 - 430 - 530 - 540

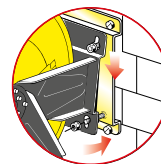
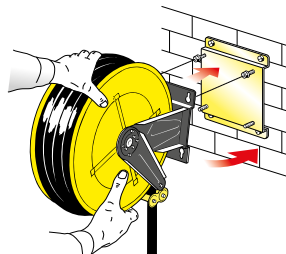
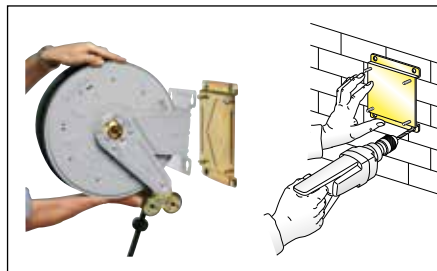


Series 450

# HOSE REELS ACCESSORIES

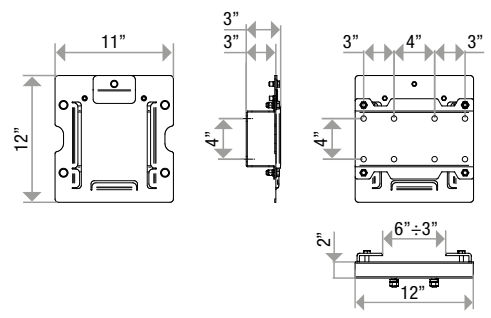

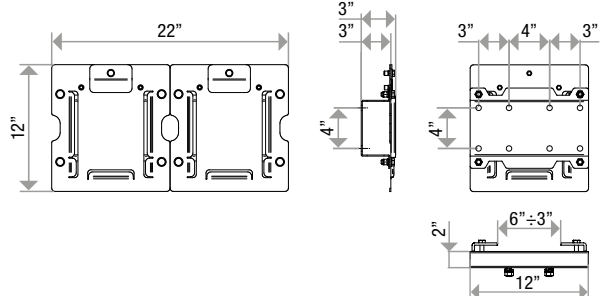

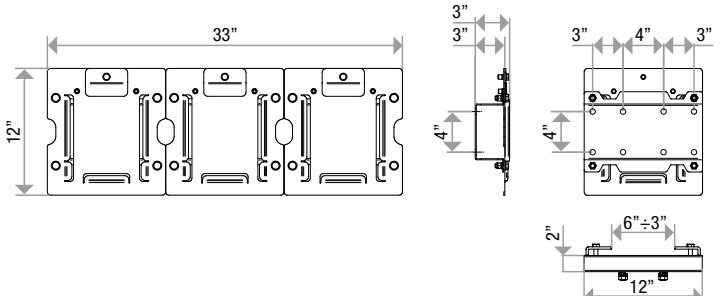

<p><b>P/N 843001-55</b> Fixed support in steel for fixed hose reels in painted steel series 290 - 330 - 390 - 430</p> <p><b>P/N 843002-55</b> Fixed support in AISI 304 stainless steel for fixed hose reels in AISI 304 stainless steel series 290 - 330 - 390 - 430</p>		
<p><b>P/N 845001-55</b> Fixed support in steel for fixed enclosed hose reels in painted steel series 450</p>		
<p><b>P/N 853001-55</b> Fixed support in steel for fixed hose reels in painted steel series 530</p> <p><b>P/N 853002-55</b> Fixed support in AISI 304 stainless steel for fixed hose reels in AISI 304 stainless steel series 530</p>		
<p><b>P/N 854001-55</b> Fixed support in steel for fixed hose reels in painted steel series 540</p> <p><b>P/N 854002-55</b> Fixed support in AISI 304 stainless steel for fixed hose reels in AISI 304 stainless steel series 540</p>		
<p><b>P/N 856001-55</b> Fixed support in steel for fixed hose reels in painted steel series 560</p> <p><b>P/N 856002-55</b> Fixed support in AISI 304 stainless steel for fixed hose reels in AISI 304 stainless steel series 560</p>		

## QUICK COUPLING SUPPORT

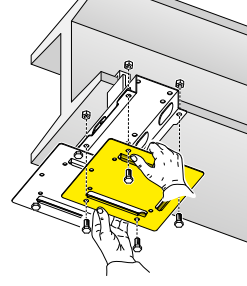


The **quick coupling support** that facilitates hooking of the single hose reel and optimises its installation in battery (i.e. with several hose reels side by side) is available by request

# HOSE REELS ACCESSORIES

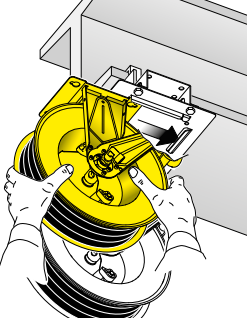
<p><b>P/N 843011-55</b> Special bracket to mount 1 hose reel series 390 or 430 on I beam</p>		
<p><b>P/N 843012-55</b> Special bracket to mount 2 hose reels series 390 or 430 on I beam</p>		
<p><b>P/N 843013-55</b> Special bracket to mount 3 hose reels series 390 or 430 on I beam</p>		

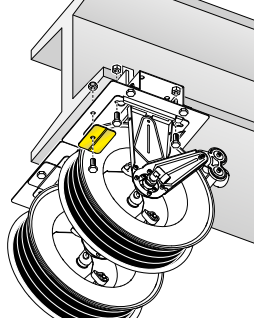
## MOUNTING CHANNEL

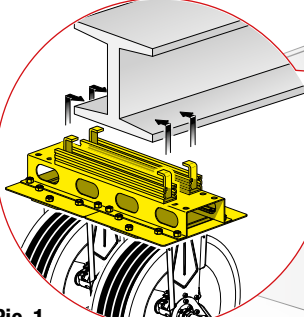


This special bracket allows ceiling installation on I beam for 1, 2 or 3 hose reels series 390 and 430.

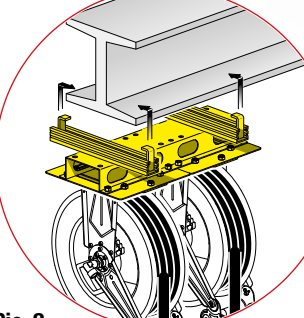
Mounting channel can be mounted in 2 different position as shown on pictures 1 and 2



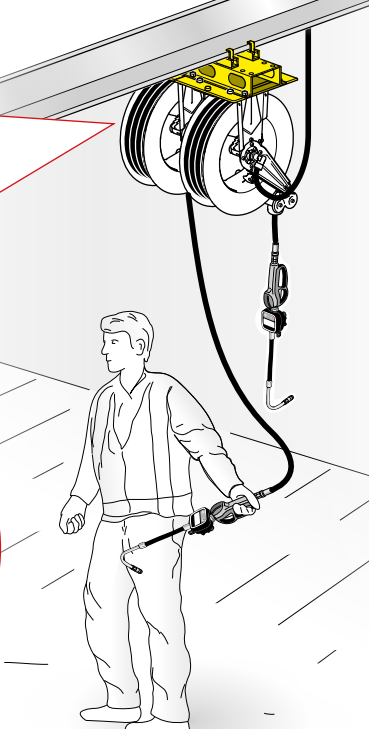




**Pic. 1**



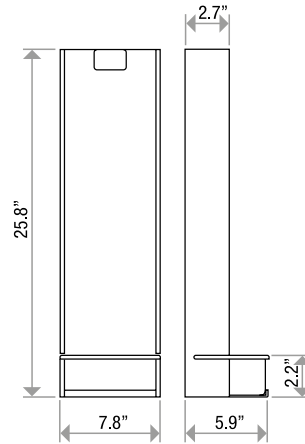
**Pic. 2**



# HOSE REELS ACCESSORIES

## P/N 88630-55

Modular drip-tray. Equipped with hook for control handle and removable drip-tray. Applied under the hose reel, it is a handy holder for the delivery handle. Essential for a clean and orderly workplace.



## FITTING BSP (m/f) SWIVEL NPTF

- P/N 133838-55 carbon steel fitting 3/8" BSP (m) x 3/8" NPSM (f) swivel
- P/N 131238-55 carbon steel fitting 1/2" BSP (m) x 3/8" NPSM (f) swivel
- P/N 131212-55 carbon steel fitting 1/2" BSP (m) x 1/2" NPSM (f) swivel
- P/N 130112-55 carbon steel fitting 1" BSP (m) x 1/2" NPSM (f) swivel
- P/N 130134-55 carbon steel fitting 1" BSP (m) x 3/4" NPSM (f) swivel
- P/N 130101-55 carbon steel fitting 1" BSP (m) x 1" NPSM (f) swivel
- P/N 13112112-55 carbon steel fitting 1-1/2" BSP (m) x 1-1/2" NPSM (f) swivel
- P/N 233838-55 AISI 304 stainless steel fitting 3/8" BSP (m) x 3/8" NPSM (f) swivel
- P/N 231238-55 AISI 304 stainless steel fitting 1/2" BSP (m) x 3/8" NPSM (f) swivel
- P/N 231212-55 AISI 304 stainless steel fitting 1/2" BSP (m) x 1/2" NPSM (f) swivel
- P/N 230134-55 AISI 304 stainless steel fitting 1" BSP (m) x 3/4" NPSM (f) swivel
- P/N 230101-55 AISI 304 stainless steel fitting 1" BSP (m) x 1" NPSM (f) swivel



## ADAPTOR (m/f) NPTF

- P/N 121438-55 carbon steel adaptor 1/4" NPTF (m) x 3/8" NPTF (f)
- P/N 123814-55 carbon steel adaptor 3/8" NPTF (m) x 1/4" NPTF (f)
- P/N 121234-55 carbon steel adaptor 1/2" NPTF (m) x 3/4" NPTF (f)
- P/N 123412-55 carbon steel adaptor 3/4" NPTF (m) x 1/2" NPTF (f)
- P/N 123401-55 carbon steel adaptor 3/4" NPTF (m) x 1" NPTF (f)
- P/N 12112114-55 carbon steel adaptor 1-1/2" NPTF (m) x 1-1/4" NPTF (f)
- P/N 1211201-55 carbon steel adaptor 1-1/2" NPTF (m) x 1" NPTF (f)
- P/N 1211234-55 carbon steel adaptor 1-1/2" NPTF (m) x 3/4" NPTF (f)

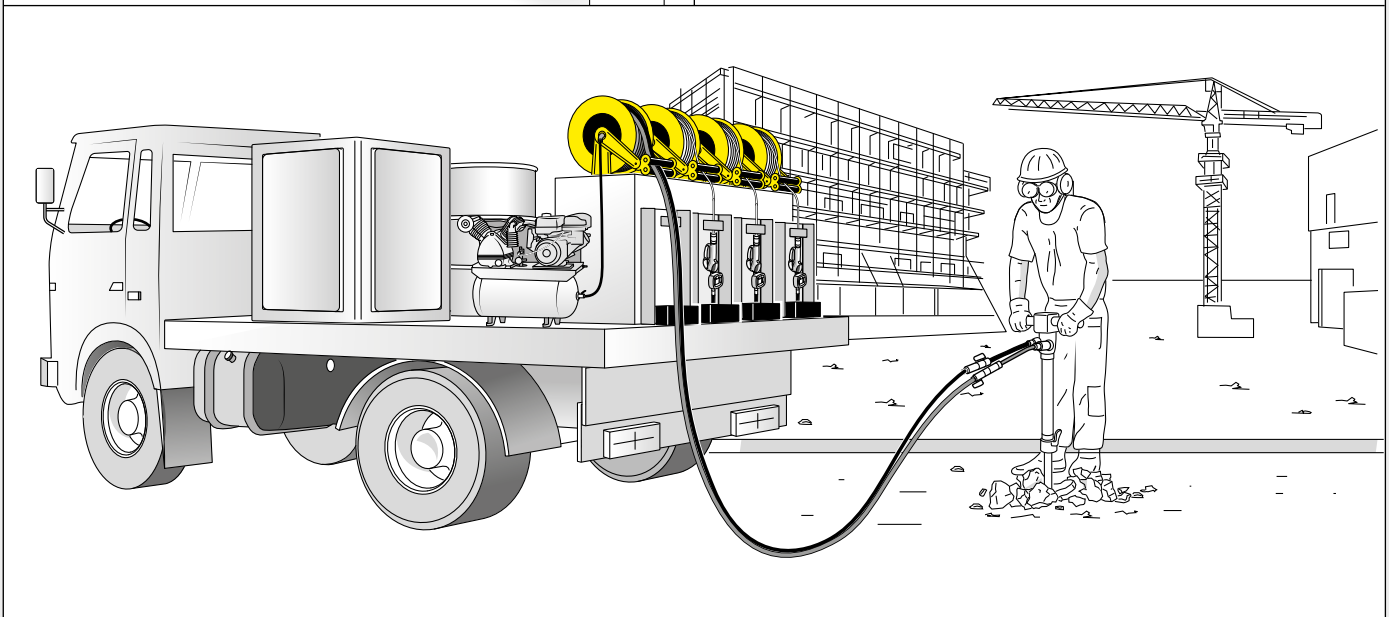
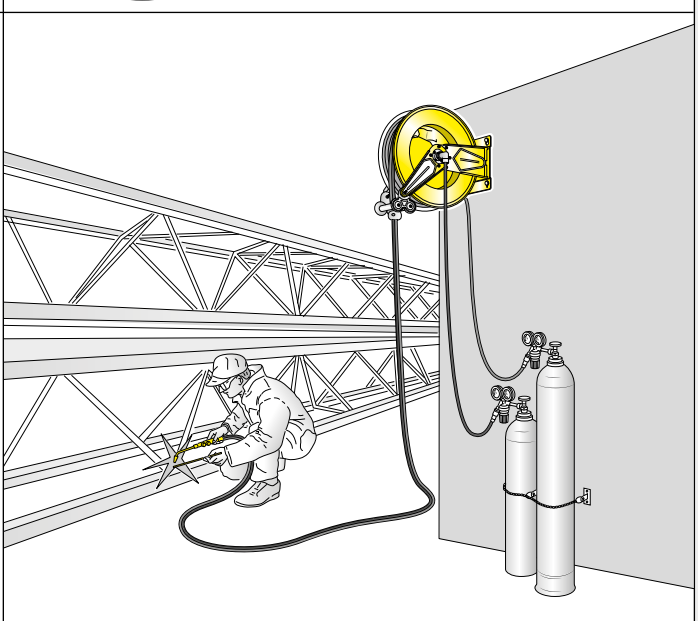
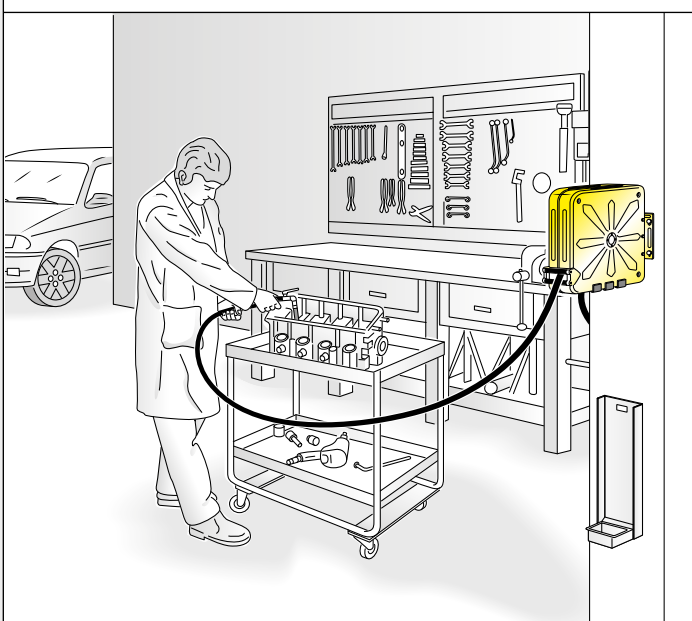
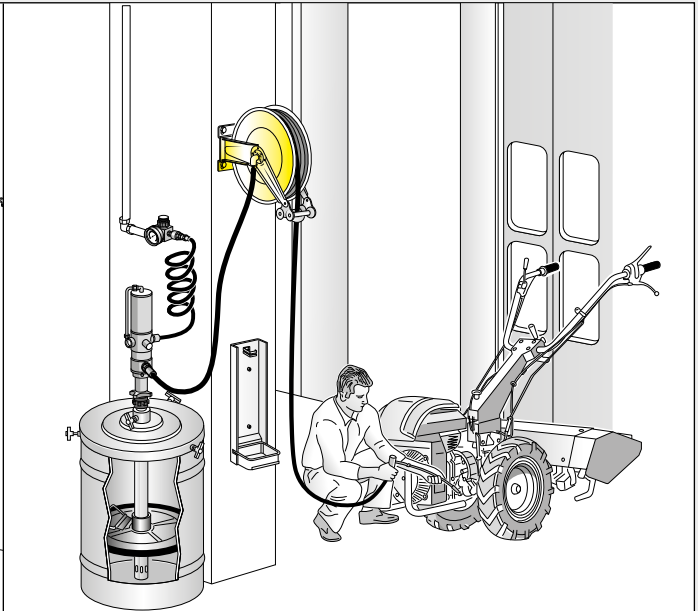
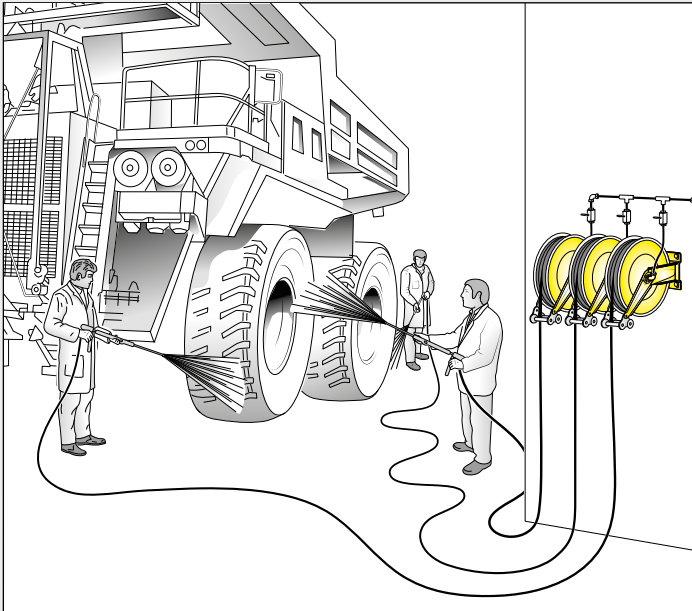


## NIPPLE (m/m) NPTF

- P/N 111414-55 carbon steel nipple 1/4" NPTF (m) x 1/4" NPTF (m)
- P/N 111438-55 carbon steel nipple 1/4" NPTF (m) x 3/8" NPTF (m)
- P/N 113838-55 carbon steel nipple 3/8" NPTF (m) x 3/8" NPTF (m)
- P/N 111212-55 carbon steel nipple 1/2" NPTF (m) x 1/2" NPTF (m)
- P/N 111234-55 carbon steel nipple 1/2" NPTF (m) x 3/4" NPTF (m)
- P/N 113434-55 carbon steel nipple 3/4" NPTF (m) x 3/4" NPTF (m)
- P/N 113401-55 carbon steel nipple 3/4" NPTF (m) x 1" NPTF (m)
- P/N 110101-55 carbon steel nipple 1" NPTF (m) x 1" NPTF (m)



# APPLICATION FIELDS







# HOSES FOR THE BEST PERFORMANCE



The range of hoses offered by RAASM for its hose reels is in line with company's quality standards and guarantees excellent performance in the applications with the pressures specified in the catalogue. For conditions different from those recommended, RAASM is available to appraise every aspect of the application context (compatibility of the materials used with the fluid, temperature of use, working pressure, etc.) together with the customer for identifying the right hose for each specific case.

The hoses to be assembled on the hose reels must be suitable for the working pressures specified on the label.

## Connecting hoses

P/N	Hose Length	Hose characteristics	Hose ø	Inlet	Outlet	Pressure	Fittings
998.806-55	2'	black rubber	1"	1" NPTF (m)	1" NPTF (m)	140 psi	zinc plated steel
971.102-55	5'	polyurethane	5/16"	1/4" NPTF (m)	swivel joint	300 psi	brass
993.201-55	3'	black rubber	1/4"	1/4" NPTF (m)	1/4" NPTF (m)	300 psi	zinc plated steel
993.202-55	7'	black rubber	1/4"	1/4" NPTF (m)	1/4" NPTF (m)	300 psi	zinc plated steel
995.206-55	2'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)	300 psi	zinc plated steel
996.306-55	2'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)	2000 psi	zinc plated steel
996.301-55	3'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)	2000 psi	zinc plated steel
996.302-55	7'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)	2000 psi	zinc plated steel
996.304-55	13'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)	2000 psi	zinc plated steel
997.505-55	16'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)	2000 psi	zinc plated steel
998.506-55	2'	black rubber	1"	1" NPTF (m)	1" NPTF (m)	2000 psi	zinc plated steel
998.501-55	3'	black rubber	1"	1" NPTF (m)	1" NPTF (m)	2000 psi	zinc plated steel
998.502-55	7'	black rubber	1"	1" NPTF (m)	1" NPTF (m)	2000 psi	zinc plated steel
995.506-55	2'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)	3000 psi	zinc plated steel
995.806-55	2'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)	5800 psi	zinc plated steel
993.504-55	13'	black rubber	1/4"	1/4" NPTF (m)	1/4" NPTF (m)	5800 psi	zinc plated steel
995.706-55	2'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)	5800 psi	zinc plated steel
995.701-55	3'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)	5800 psi	zinc plated steel
995.702-55	7'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)	5800 psi	zinc plated steel

# HOSES TECHNICAL DATA

P/N	Hose Length	Hose characteristics	Hose ø	Inlet	Outlet
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Air-Water - Antifreeze <b>300 psi</b>  Fittings <b>NPTF Zinc plated</b>	<b>971.111-55</b>	36'	polyurethane	5/16"	1/4" BSP (m)	1/4" NPTF (m)
	<b>993.215-55</b>	50'	black rubber	1/4"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>993.218-55</b>	60'	black rubber	1/4"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>995.210-55</b>	35'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)
	<b>995.211-55</b>	40'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)
	<b>995.217-55</b>	60'	black rubber	3/8"	3/8" NPTF (m)	3/8" NPTF (m)
	<b>996.210-55</b>	35'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.215-55</b>	50'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.220-55</b>	65'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.225-55</b>	80'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>997.215-55</b>	50'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.220-55</b>	65'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.230-55</b>	100'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.240-55</b>	130'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>998.215-55</b>	50'	black rubber	1"	1" NPTF (m)	1" NPTF (m)
	<b>998.220-55</b>	65'	black rubber	1"	1" NPTF (m)	1" NPTF (m)
	<b>998.230-55</b>	100'	black rubber	1"	1" NPTF (m)	1" NPTF (m)

P/N	Hose Length	Hose characteristics	Hose ø	Working temperature	Inlet	Outlet
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Hot water <b>1400 psi</b>  Fittings <b>NPTF Zinc plated</b>	<b>995.313-55</b>	40'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPTF (m)
	<b>995.318-55</b>	56'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPTF (m)
	<b>996.307-55</b>	25'	black rubber	1/2"	≤ 266 °F	3/8" NPTF (m)	1/2" NPTF (m)
	<b>996.311-55</b>	35'	black rubber	1/2"	≤ 266 °F	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.316-55</b>	50'	black rubber	1/2"	≤ 266 °F	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.321-55</b>	65'	black rubber	1/2"	≤ 266 °F	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.326-55</b>	80'	black rubber	1/2"	≤ 266 °F	1/2" NPTF (m)	1/2" NPTF (m)
	<b>997.315-55</b>	50'	black rubber	3/4"	≤ 176 °F	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.320-55</b>	65'	black rubber	3/4"	≤ 176 °F	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.330-55</b>	100'	black rubber	3/4"	≤ 176 °F	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.340-55</b>	130'	black rubber	3/4"	≤ 176 °F	3/4" NPTF (m)	3/4" NPTF (m)
	<b>998.315-55</b>	50'	black rubber	1"	≤ 176 °F	1" NPTF (m)	1" NPTF (m)
	<b>998.320-55</b>	65'	black rubber	1"	≤ 176 °F	1" NPTF (m)	1" NPTF (m)
	<b>998.330-55</b>	100'	black rubber	1"	≤ 176 °F	1" NPTF (m)	1" NPTF (m)

P/N	Hose Length	Hose characteristics	Hose ø	Working temperature	Inlet	Outlet
-----	-------------	----------------------	--------	---------------------	-------	--------

Hot water <b>3000 psi</b>  Fittings <b>NPTF Zinc plated</b>	<b>994.512-55</b>	40'	black rubber	5/16"	≤ 266 °F	3/8" NPTF (m)	3/8" NPTF (m)
	<b>994.517-55</b>	56'	black rubber	5/16"	≤ 266 °F	3/8" NPTF (m)	3/8" NPTF (m)
	<b>995.512-55</b>	40'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPSM (f)
	<b>995.518-55</b>	60'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPSM (f)
	<b>995.520-55</b>	65'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPSM (f)
	<b>995.525-55</b>	80'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPSM (f)
	<b>995.530-55</b>	100'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPSM (f)
	<b>995.540-55</b>	130'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPSM (f)
	<b>995.550-55</b>	165'	black rubber	3/8"	≤ 266 °F	3/8" NPTF (m)	3/8" NPSM (f)

# HOSES TECHNICAL DATA

	P/N	Hose Length	Hose characteristics	Hose ø	Inlet	Outlet
Oil and similar <b>2000 psi</b>  Fittings <b>NPTF Zinc plated</b>	<b>995.312-55</b>	40'	black rubber	3/8"	3/8" NPTF (m)	1/2" NPTF (m)
	<b>995.317-55</b>	56'	black rubber	3/8"	3/8" NPTF (m)	1/2" NPTF (m)
	<b>996.308-55</b>	25'	black rubber	1/2"	3/8" NPTF (m)	1/2" NPTF (m)
	<b>996.310-55</b>	35'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.315-55</b>	50'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.320-55</b>	65'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>996.325-55</b>	80'	black rubber	1/2"	1/2" NPTF (m)	1/2" NPTF (m)
	<b>997.3315-55</b>	50'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.3320-55</b>	65'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.530-55</b>	100'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.540-55</b>	130'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>998.515-55</b>	50'	black rubber	1"	1" NPTF (m)	1" NPTF (m)
	<b>998.520-55</b>	65'	black rubber	1"	1" NPTF (m)	1" NPTF (m)
	<b>998.530-55</b>	100'	black rubber	1"	1" NPTF (m)	1" NPTF (m)

	P/N	Hose Length	Hose characteristics	Hose ø	Inlet	Outlet
Grease <b>5800 psi</b>  Fittings <b>NPTF Zinc plated</b>	<b>993.511-55</b>	40'	black rubber	1/4"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>993.516-55</b>	52'	black rubber	1/4"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>993.518-55</b>	60'	black rubber	1/4"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>995.710-55</b>	35'	black rubber	3/8"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>995.715-55</b>	50'	black rubber	3/8"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>995.720-55</b>	65'	black rubber	3/8"	3/8" NPTF (m)	1/4" NPTF (m)
	<b>995.725-55</b>	80'	black rubber	3/8"	3/8" NPTF (m)	1/4" NPTF (m)

	P/N	Hose Length	Hose characteristics	Hose ø	Inlet	Outlet
Diesel oil <b>140 psi</b>  Fittings <b>NPTF Zinc plated</b>	<b>997.812-55</b>	40'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.815-55</b>	50'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.820-55</b>	65'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.830-55</b>	100'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.835-55</b>	115'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>997.840-55</b>	130'	black rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>998.808-55</b>	25'	black rubber	1"	1" NPTF (m)	1" NPTF (m)
	<b>998.815-55</b>	50'	black rubber	1"	1" NPTF (m)	1" NPTF (m)
	<b>998.820-55</b>	65'	black rubber	1"	1" NPTF (m)	1" NPTF (m)
	<b>998.830-55</b>	100'	black rubber	1"	1" NPTF (m)	1" NPTF (m)

	P/N	Hose Length	Hose characteristics	Hose ø	Inlet	Outlet
Def <b>140 psi</b> Fittings <b>NPTF AISI 316</b>	<b>987.206-55</b>	2'	EPDM rubber	3/4"	3/4" NPTF (m)	1" NPTF (m)
	<b>987.210-55</b>	35'	EPDM rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)
	<b>987.215-55</b>	50'	EPDM rubber	3/4"	3/4" NPTF (m)	3/4" NPTF (m)



# DISPENSE METERS AND VALVES



# INDEX



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**Antifreeze metered  
control handles S. 40AP-1/2"** page **146**



**Windshield washing liquid  
metered control handles S. 40AN-1/2"** page **146**



**Mechanical and preset digital control handles** page **147**



**Accessories** page **148**





# ELECTRONIC METERS

9.2 gpm

18.5 gpm

26.4 gpm

**RAASM's electronic meters**, besides gauging the liquid delivered, can show instant flow rates, provide a reset total and allow the setting of different units of measurement. RAASM's electronic meters are suitable for a wide variety of fluids, from low to medium to high viscosities, including lubricants, diesel fuel, antifreeze, window wash liquid and other fluids compatible with the material of the meter.



## P/N 37780-55

## P/N 37781-55

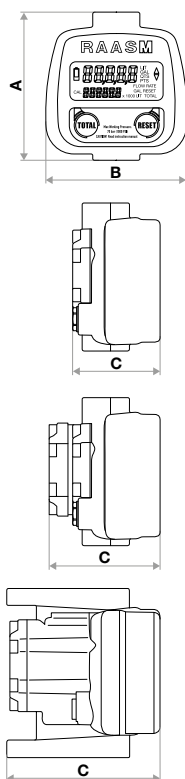
## P/N 37782-55

Flow rate	9.25 gpm
Compatible fluids	oil and similar
Body's material	aluminum
Gear's material	POM
Inlet	1/2" NPT (f)
Outlet	1/2" NPT (f)
Max operating pressure	1015 psi
Burst pressure	2900 psi
Accuracy	± 0.3 %
Net weight	1 lb
Overall dimensions (A - B - C)	3.7" - 3.5" - 2.2"
Packaging - Weight	No. 1 0.05 ft <sup>3</sup> lb 1.9

Flow rate	18.5 gpm
Compatible fluids	oil and similar
Body's material	aluminum
Gear's material	POM
Inlet	3/4" NPT (f)
Outlet	3/4" NPT (f)
Max operating pressure	1015 psi
Burst pressure	2900 psi
Accuracy	± 0.3 %
Net weight	2 lb
Overall dimensions (A - B - C)	3.7" - 3.6" - 3.0"
Packaging - Weight	No. 1 0.06 ft <sup>3</sup> lb 2.2

Flow rate	26.42 gpm
Compatible fluids	oil and similar
Body's material	aluminum
Gear's material	POM
Inlet	1" NPT (f) + Flange
Outlet	1" NPT (f) + Flange
Max operating pressure	1015 psi
Burst pressure	2900 psi
Accuracy	± 0.3 %
Net weight	2.4 lb
Overall dimensions (A - B - C)	4.3" - 3.6" - 3.9"
Packaging - Weight	No. 1 0.2 ft <sup>3</sup> lb 3

OVERALL DIMENSIONS (inches)



Battery low level indicator

Unit: Liter - Gallon  
- Pint - Quart

5 digit total

Flow direction reversibility

6 digit non resettable total and instant flow-rate

FLOW RATE indication

Total may be multiplied by 10 - x 100 - x 1000

TOTAL or RESET TOTAL

Total-Unit: Liter - Gallon



## PERFORMANCE

Precision ± 0.3 %

Repeatability 0.2 %

Pressure loss  
< 7 psi at max flow rate



# ELECTRONIC METERS

23.8 gpm

31.7 gpm

10.5 gpm



P/N 33710-55

P/N 33711-55

P/N 37785-55

Flow rate	23.8 gpm
Compatible fluids	diesel fuel
Body's material	aluminum
Gear's material	POM
Inlet	3/4" NPT (f)
Outlet	3/4" NPT (f)
Max operating pressure	1015 psi
Burst pressure	2900 psi
Accuracy	± 0.3 %
Net weight	2 lb
Overall dimensions (A - B - C)	3.7" - 3.6" - 3.0"
Packaging - Weight	No. 1 0.1 ft³  lb 2

Flow rate	31.7 gpm
Compatible fluids	diesel fuel
Body's material	aluminum
Gear's material	POM
Inlet	1" NPT (f) + Flange
Outlet	1" NPT (f) + Flange
Max operating pressure	1015 psi
Burst pressure	2900 psi
Accuracy	± 0.3 %
Net weight	2.4 lb
Overall dimensions (A - B - C)	4.3" - 3.6" - 3.9"
Packaging - Weight	No. 1 0.2 ft³  lb 3

Flow rate	10.5 gpm
Compatible fluids	antifreeze and windshield washing fluid
Body's material	oxidized aluminum (zancofuso®)
Gear's material	PVDF
Inlet	1/2" NPT (f)
Outlet	1/2" NPT (f)
Max operating pressure	1015 psi
Burst pressure	2900 psi
Accuracy	± 0.3 %
Net weight	1 lb
Overall dimensions (A - B - C)	3.7" - 3.5" - 2.3"
Packaging - Weight	No. 1 0.05 ft³  lb 1.9

Sealed battery compartment assures continuous electronic contact in rugged working conditions

The use of 4 magnets provides superior control and precision measurement

Robotically welded electronics board equipped with a wide LCD screen

Double layer protective cover provides an air tight seal with the aluminum body

Meter uses standard "off the shelf" two 1.5 v AAA batteries

Aluminum body with special coating suitable for antifreeze and windshield washing fluid

Oval gears made of POM or PVDF are highly resistant to fatigue and offer excellent chemical resistance

A ribbon wire connection between the buttons and the electronic board provide superior connectivity

Raised buttons on the membrane produce an improved operational feel



# CONTROL HANDLES FOR OIL AND SIMILAR

Designed with a balanced opening valve and a sensitive and calibrated trigger for easy delivery in low and high pressure conditions.

► Series 40AP-1/2" 1015 psi  
► Series 40AL-1/2" 1015 psi



► Series 65AP-1/2" 1450 psi



► Series 70AP-3/4" 1450 psi



► Series 85AP-3/4" 1450 psi



# CONTROL HANDLES FOR OIL

## **Series 40AP-1/2" - Series 40AL-1/2"**

Oil handle series 40AP - 40AL in aluminum alloy (see page 142) equipped with:

- balanced opening valve in brass, for even pressure on the lever in low and high pressure conditions
- inlet swivel joint 1/2" NPT (f)
- lever locking button (only for series 40AP)
- flexible extension with semiautomatic nozzle  $\varnothing$  0.63"
- fluid identification colored caps (supplied for all the range)

## **Series 65AP-1/2"**

Oil handle series 65AP in aluminum alloy (see page 143) equipped with:

- balanced opening valve in brass, for even pressure on the lever in low and high pressure conditions
- inlet swivel joint 1/2" NPT (f)
- lever locking button
- flexible extension with semiautomatic nozzle  $\varnothing$  0.83"
- fluid identification colored caps (supplied for all the range)

## **Series 70AP-3/4"**

Oil handle series 70AP in aluminum alloy (see page 144) equipped with:

- balanced opening valve in brass, for even pressure on the lever in low and high pressure conditions
- inlet swivel joint 3/4" NPT (f)
- lever locking button
- flexible extension with semiautomatic nozzle  $\varnothing$  1.38"
- fluid identification colored caps (supplied for all the range)

## **Series 85AP-3/4"**

Oil handle series 85AP high capacity in aluminum alloy (see page 145) equipped with:

- balanced opening valve in brass, for even pressure on the lever in low and high pressure conditions
- inlet swivel joint 3/4" NPT (f)
- lever locking button
- straight flexible extension with semiautomatic high delivery nozzle  $\varnothing$  1.38"

	Series 40AP-1/2" Series 40AL-1/2"	Series 65AP-1/2"	Series 70AP-3/4"	Series 85AP-3/4"
<b>Delivery</b>	10.6 gpm	17.2 gpm	18.5 gpm	22.5 gpm
<b>Max. pressure</b>	1015 psi	1450 psi	1450 psi	1450 psi
<b>Inlet union</b>	1/2" NPT (f)	1/2" NPT (f)	3/4" NPT (f)	3/4" NPT (f)
<b>Seals</b>	Viton®	Viton®	Viton®	Viton®

### **Colored caps**

(included in series  
40AP - 40AL  
65AP - 70AP)







# OIL METERED CONTROL HANDLES

## Series 40AP-1/2" - 40AL-1/2"

### P/N 37740-55

Grip in aluminum alloy for oil handle equipped with 1/2" NPT (f) inlet swivel joint, 3/8" BSP (f) outlet - lever locking button. For max pressure and flow rate refer to page 141



### P/N 37731-55

Oil handle equipped with 1/2" NPT (f) inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle  $\varnothing$  0.63" (P/N 38016-55) and lever locking button

### P/N 37768-55

Oil handle with electronic meter equipped with 1/2" NPT (f) inlet swivel joint, filter, rigid terminal, screw drip-catcher nozzle  $\varnothing$  0.63" (P/N 38106-55) and lever locking button and electronic meter (P/N 37780-55)

### P/N 37789-55

Oil handle equipped as 37768-55 but with semiautomatic drip-catcher nozzle  $\varnothing$  0.63" (P/N 38016-55)

### P/N 38148-55

Oil handle equipped as 37768-55 but with automatic drip-catcher nozzle  $\varnothing$  0.63" (P/N 38116-55) and without lever locking button



### P/N 37738-55

Oil handle equipped with 1/2" NPT (f) inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle  $\varnothing$  0.63" (P/N 38016-55) and lever locking button

### P/N 38147-55

Oil handle with electronic meter equipped as P/N 37738-55 but with automatic drip-catcher nozzle  $\varnothing$  0.63" (P/N 38116-55) and without lever locking button. With electronic meter (P/N 37780-55)

### P/N 37739-55

Oil handle with electronic meter P/N 37780-55 equipped with 1/2" NPT (f) inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle  $\varnothing$  0.63" (P/N 38016-55) and lever locking button

### P/N 37754-55

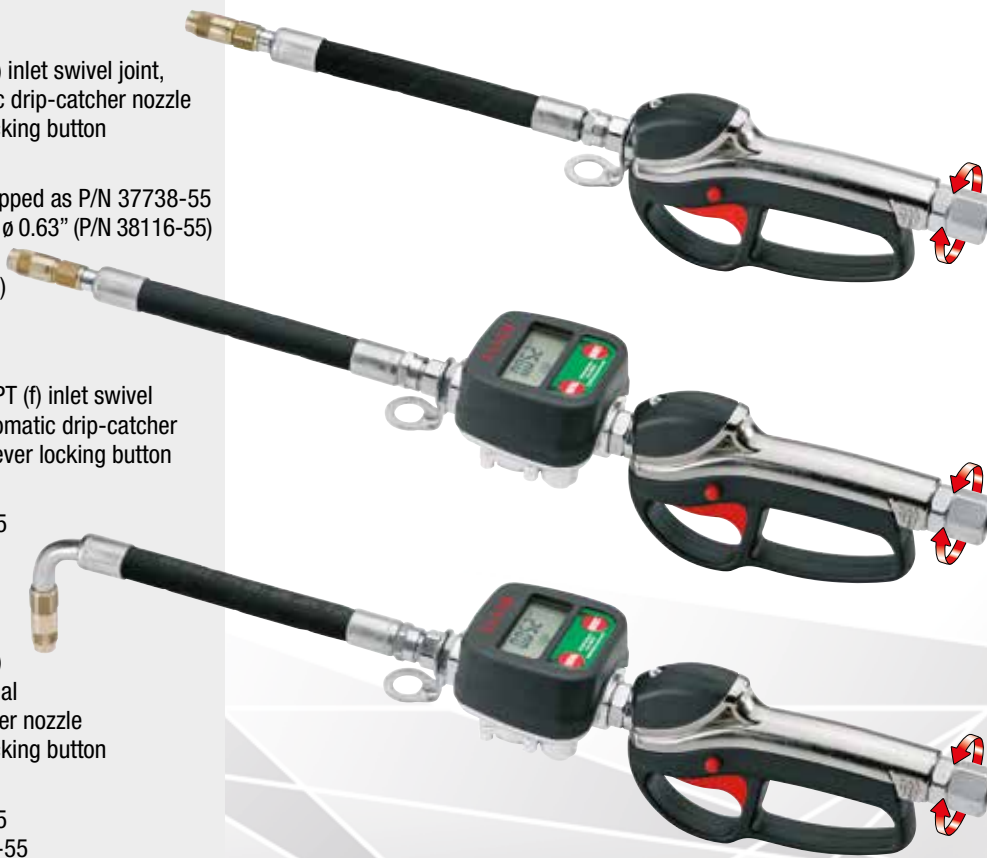
Oil handle equipped as P/N 37739-55 but with screw drip-catcher nozzle  $\varnothing$  0.63" (P/N 38106-55)

### P/N 37741-55

Oil handle equipped with 1/2" NPT (f) inlet swivel joint, filter, flexible terminal 90° spout, semiautomatic drip-catcher nozzle  $\varnothing$  0.63" (P/N 38016-55) and lever locking button

### P/N 37786-55

Oil handle equipped as P/N 37741-55 but with electronic meter P/N 37780-55







# OIL METERED CONTROL HANDLES

## Series 65AP-1/2"

### P/N 37750-55

Grip in aluminum for oil handle equipped with 1/2" NPT (f) inlet swivel joint, filter, 1/2" BSP (f) outlet and lever locking button. For max pressure and flow rate refer to page 141



### P/N 37753-55

Oil handle equipped with 1/2" NPT (f) inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle  $\varnothing$  0.83" and lever locking button



### P/N 37779-55

Oil handle with electronic meter P/N 37780-55 equipped with 1/2" NPT (f) inlet swivel joint, filter, rigid terminal, semiautomatic drip-catcher nozzle  $\varnothing$  0.83" and lever locking button



### P/N 37761-55

Oil handle equipped with 1/2" NPT (f) inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle  $\varnothing$  0.83" and lever locking button



### P/N 37774-55

Oil handle with electronic meter P/N 37780-55 equipped with 1/2" NPT (f) inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle  $\varnothing$  0.83" and lever locking button





# OIL METERED CONTROL HANDLES

## Series 70AP-3/4"

### P/N 37775-55

High delivery oil grip equipped with 3/4" NPT (f) inlet swivel joint, filter, 3/4" NPT (f) outlet and lever locking button. For max pressure and flow rate refer to page 141



### P/N 37777-55

High flow rate oil handle equipped with 3/4" NPT (f) inlet swivel joint, filter, rigid terminal 45°, semiautomatic drip-catcher nozzle ø 1.38" and lever locking button



### P/N 37798-55

High flow rate oil handle with electronic meter P/N 37781-55 equipped with 3/4" NPT (f) inlet swivel joint, filter, rigid terminal 45°, semiautomatic drip-catcher nozzle ø 1.38" and lever locking button



### P/N 37776-55

High flow rate oil gun equipped with 3/4" NPT (f) inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 1.38" and lever locking button



### P/N 37797-55

High flow rate oil gun with electronic meter P/N 37781-55 equipped with 3/4" NPT (f) inlet swivel joint, filter, flexible terminal, semiautomatic drip-catcher nozzle ø 1.38" and lever locking button





# OIL METERED CONTROL HANDLES

## Series 85AP-3/4"

### P/N 33150-55

High delivery oil grip equipped with 3/4" NPT (f) inlet swivel joint, filter, 3/4" NPT (f) outlet and lever locking button. For max pressure and flow rate refer to page 141

Lever locking button



### P/N 33152-55

High delivery oil handle grip equipped with 3/4" NPT (f) inlet swivel joint, filter, lever locking button, rigid terminal and drip-catcher nozzle ø 1.38"



### P/N 33147-55

High delivery oil handle grip with electronic meter P/N 37781-55 equipped with 3/4" NPT (f) inlet swivel joint, filter, lever locking button, rigid terminal and drip-catcher nozzle ø 1.38"



### P/N 33151-55

High delivery oil handle grip, equipped with 3/4" NPT (f) inlet swivel joint, flexible extension and drip-catcher nozzle ø 1.38"



### P/N 33146-55

High delivery oil handle grip with electronic meter P/N 37781-55, 3/4" NPT (f) inlet swivel joint, flexible extension and drip-catcher nozzle ø 1.38"





## ANTIFREEZE METERED CONTROL HANDLES Series 40AP-1/2"

### P/N 37793-55

Antifreeze handle with electronic meter P/N 37785-55 equipped with 1/2" NPT (f) inlet swivel joint, filter, flexible terminal and semiautomatic drip-catcher nozzle  $\varnothing$  0.63"



## WINDSHIELD WASHING LIQUID METERED CONTROL HANDLES Series 40AN-1/2"

### P/N 33445-55

Windshield washing liquid handle equipped with 1/2" NPT (f) inlet swivel joint, filter, high flow rate rigid terminal

### P/N 33446-55

Windshield washing liquid handle with electronic meter P/N 37785-55 equipped with 1/2" NPT (f) inlet swivel joint, filter, high flow rate rigid terminal







# MECHANICAL AND PRESET DIGITAL CONTROL HANDLES

## P/N 38190-55

Preset digital dispensing control handle for oil equipped with:

- inlet swivel joint 1/2" NPT (f)
- flexible terminal
- automatic closing nozzle  $\varnothing$  0.55"
- standard AA batteries
- stores up to 6 preset quantities plus last quantity



Article not manufactured by RAASM

<b>Compatible fluids</b>	oil and similar
<b>Inlet</b>	1/2" NPT (f)
<b>Min. delivery</b>	0.26 gpm
<b>Max. delivery</b>	5.25 gpm
<b>Max. pressure</b>	1015 psi
<b>Accuracy</b>	+/- 0.5%
<b>Max. viscosity</b>	SAE 240
<b>Fluid temperature</b>	max 122 °F
<b>Packaging - Weight</b>	No. 1 0.35 ft³  lb 4.4

## P/N 37700-55

Mechanical metered control handle for oil, equipped with:

- inlet swivel joint 1/2" NPT (f)
- flexible extension
- semiautomatic nozzle  $\varnothing$  0.63"
- quarter and gallon indicator with gallon totalizer



Article not manufactured by RAASM

<b>Compatible fluids</b>	oil and similar
<b>Inlet</b>	1/2" NPT (f)
<b>Min. delivery</b>	0.26 gpm
<b>Max. delivery</b>	8 gpm
<b>Max. pressure</b>	1015 psi
<b>Accuracy</b>	+/- 0.5%
<b>Max. viscosity</b>	SAE 240
<b>Fluid temperature</b>	max 122 °F
<b>Packaging - Weight</b>	No. 1 0.35 ft³  lb 5.7



# HANDLES ACCESSORIES

## Oil handles Series 40AP-1/2" - 40AL-1/2"



- **P/N 38015-55**  
Semiautomatic  
drip-catcher ø 0.39"



- **P/N 38016-55**  
Semiautomatic  
drip-catcher 0.63"

- **P/N 38106-55**  
Screw  
drip-catcher 0.63"

- **P/N 38116-55**  
Automatic  
drip-catcher 0.63"



- **P/N 38017-55**  
Semiautomatic  
drip-catcher ø 0.32"



- **P/N 38018-55**  
Semiautomatic  
drip-catcher ø 0.32"  
with curved spout



- **P/N 38009-55**  
Flexible extension  
with P/N 38016-55



- **P/N 38010-55**  
Flexible extension  
with P/N 38016-55



- **P/N 38013-55**  
Rigid extension 45°  
with P/N 38016-55



- **P/N 38012-55**  
High delivery rigid  
extension with  
free outlet ø 0.79"



- **P/N 38014-55**  
Flexible terminal with  
semiautomatic curved  
drip-catcher nozzle ø 0.32"



Lever locking  
button



- **P/N 37740-55**  
Grip in aluminum  
alloy with 1/2" NPT (f) inlet  
swivel joint, 3/8" BSP (f)  
outlet, and lever  
locking button

- **P/N 38062-55**  
Swivel joint  
for oil handle,  
1/2" BSP (m)  
x 1/2" NPT (f)

## Oil handles Series 65AP-1/2"



- **P/N 38034-55**  
Semiautomatic  
drip-catcher ø 0.83"



- **P/N 38035-55**  
Semiautomatic  
drip-catcher ø 1.06"



- **P/N 38033-55**  
Flexible extension  
with P/N 38034-55



- **P/N 38031-55**  
Rigid extension 45°  
with P/N 38034-55



- **P/N 38032-55**  
High delivery rigid  
extension free  
outlet ø 0.79"



Lever locking  
button



- **P/N 37750-55**  
Grip in aluminum alloy  
with inlet swivel  
joint 1/2" NPT (f), 1/2" BSP  
(f) outlet, and lever  
locking button

- **P/N 38063-55**  
Swivel joint  
for oil handle,  
inlet 1/2" BSP (m)  
x 1/2" NPT (f)

# HANDLES ACCESSORIES

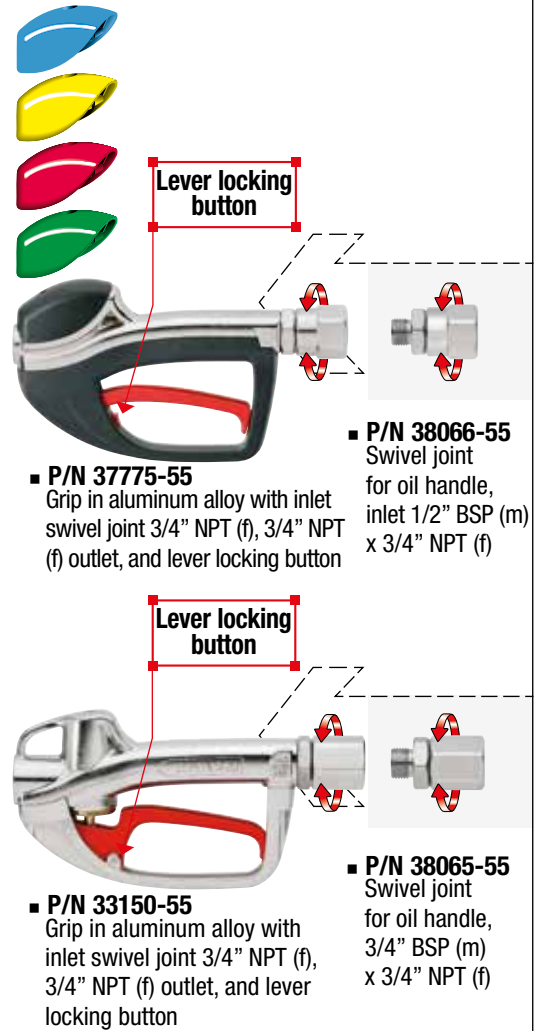
## Oil handles Series 70AP-3/4" - 85AP-3/4"

■ **P/N 38040-55**  
High delivery semiautomatic  
drip-catcher ø 1.38"

■ **P/N 38037-55**  
High delivery  
flexible extension  
with P/N 38040-55

■ **P/N 38038-55**  
High delivery  
rigid extension 45°  
with P/N 38040-55

■ **P/N 38039-55**  
High delivery  
rigid extension  
with free outlet ø 1.02"

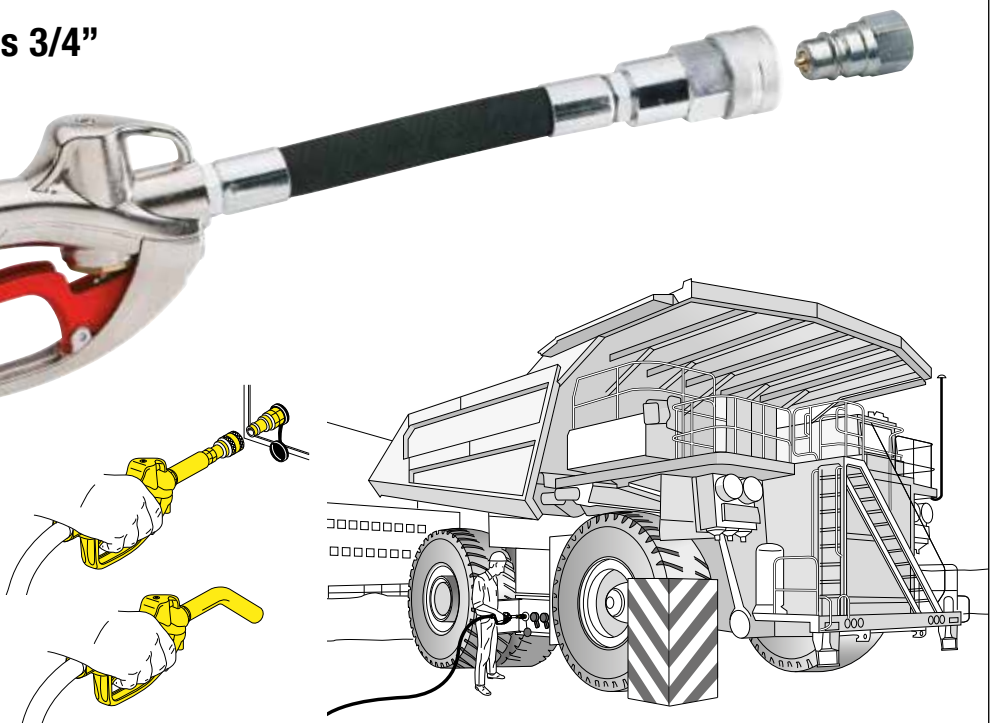


## High delivery grip Series 3/4"

Example of used 3/4" oil gun with  
quick coupler for tank refilling

**Inlet filter**  
supplied with all our oil,  
antifreeze, windshield liquid  
delivery gun

**Inlet filter**





# WASTE OIL EQUIPMENTS

# INDEX



**Floor and pit drains** page **152**



**Kit for evacuating tanks** page **153**



**Waste oil and antifreeze drains** page **154**



**Waste oil suction-drains** page **156**



**Pantograph oil suction-drains** page **159**



**Waste oil drains for boats** page **160**



**Wall mounted drains** page **161**



**Flexible and metal probes** page **162**






# FLOOR AND PIT OIL DRAINS

## Waste oil drains.

Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles. Equipped with antislash screen which can be used as a support for draining oil filters.



 Do not use flammable or corrosive liquids

### P/N 42061-55

**Pit waste oil drain**, 29 gal capacity, equipped with 3/4" quick-release connector

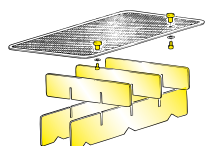
### P/N 42072-55

**Floor waste oil drain**, 25 gal capacity, equipped with 3/4" quick-release connector, with 2 castors and 2 fixed wheels

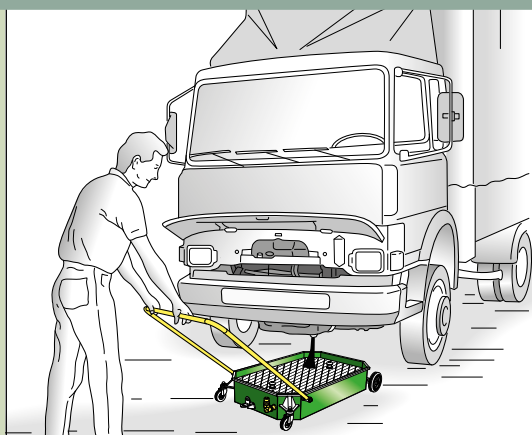
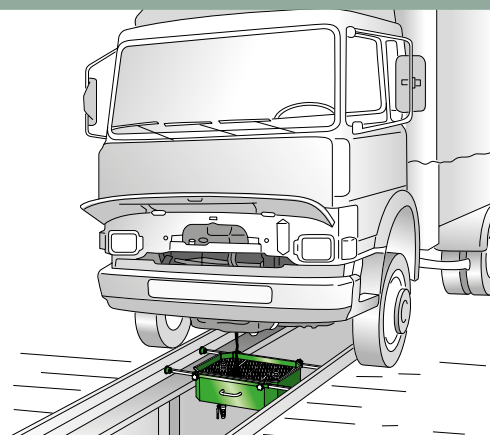
### P/N 42075-55

**Floor waste oil drain**, 40 gal capacity, equipped with 3/4" quick release connector, with 2 castors and 2 fixed wheels

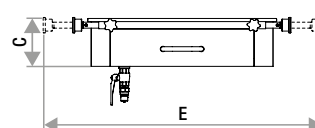
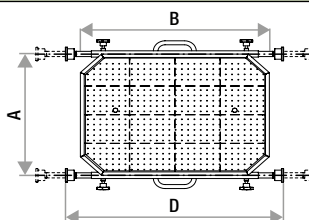
USES



Antislash screen



Series	A	B	C	D	E	1 ft <sup>3</sup>	lb
42061-55	25.0"	31.1"	10.4"	33.0"	49.3"	8.3	86
42072-55	28.5"	39.0"	7.8"	47.2"	-	7.1	75
42075-55	29.2"	39.2"	11.6"	48.7"	-	11.7	136







# EVACUATION KIT

## Wall-mounted evacuation kit.

A practical solution for draining movable equipment, waste oil suction/drains by means of connection with quick-coupling valve. Wall application enables connection to a fixed system for discharging the extracted fluid directly into the storage tank.



### P/N 33550-55

Diaphragm pumps	32/2011NHH2-55 - seals NBR High Nitrile
Air flow regulator	37803-55
Bracket	33590-55
Flexible suction tube	ø 1-1/4" - 38026-55
Discharged tube	-
Female quick connector 3/4" (f)	33126-55 (with check valve)
Set of probes	-
Packaging - Weight	No. 1 1.4 ft³ 31 lb

### P/N 33552-55

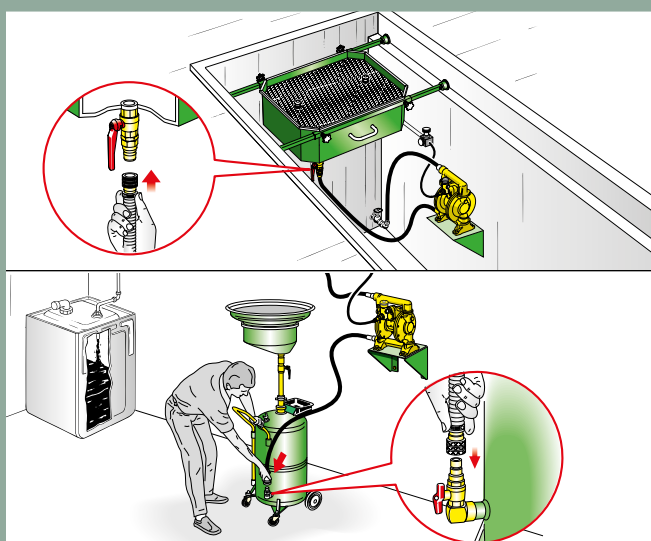
Diaphragm pumps	32/2011NHH2-55 - seals NBR High Nitrile
Air flow regulator	-
Bracket	suitable for pit drainer
Flexible suction tube	ø 0.5" x 0.8" suitable for probes
Discharged tube	1/2" G
Female quick connector 3/4" (f)	-
Set of probes	45507-55 - 45508-55 - 45509-55 45510-55 - 45511-55
Packaging - Weight	No. 1 1.2 ft³ 27.5 lb

### P/N 33127-55

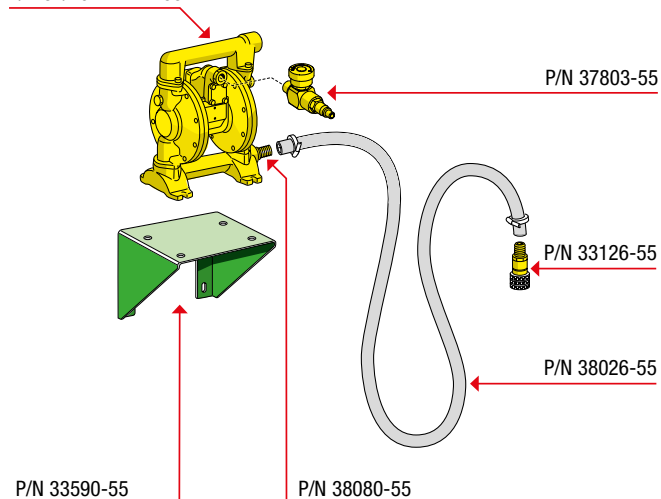
Male quick connector with check valve, (to be installed on the waste oil drain for connection to the evacuation kit).

Article not manufactured by RAASM ordered separately

## USES



### P/N 32/2011NHH2-55





# WASTE OIL AND ANTIFREEZE DRAINS

## Waste oil and antifreeze drains with wheel-mounted tank.

Suitable for gravity draining of engine, gearbox differential oil and antifreeze from all motor vehicles placed on an auto lift or pit. The bowl with height-adjustable is mounted on a swivel joint that facilitates positioning.



Do not use flammable or corrosive liquids

### P/N 42085-55

**Waste oil drainer** with wheel-mounted 21.1 gal tank, equipped with:

- level gauge
- 4.2 gal collection bowl
- antisplash screen/filter
- removable tool tray

<b>Tank capacity</b>	21.1 gal
<b>Max. collection capacity</b>	16.4 gal
<b>Bowl capacity</b>	4.2 gal
<b>Oversize funnel diameter</b>	ø 17.1"
<b>Draining hose length</b>	7'
<b>Max. height</b>	69.3"
<b>Min. height</b>	56.7"
<b>Draining pressure</b>	7 psi
<b>Packaging - Weight</b>	No. 1 6.7 ft <sup>3</sup> lb 73

### P/N 42090-55

**Waste oil drainer** with wheel-mounted 23.8 gal tank, equipped with:

- level gauge
- 3.9 gal collection bowl with oversize funnel
- antisplash screen/filter
- removable tool tray

	23.8 gal
	19.8 gal
	3.9 gal
	ø 22.9"
	7'
	74.9"
	55.2"
	7 psi
	No. 2 10.6 ft <sup>3</sup> lb 75

USE

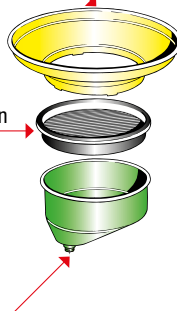


DETAILS AND ADVANTAGES

Removable oversize funnel

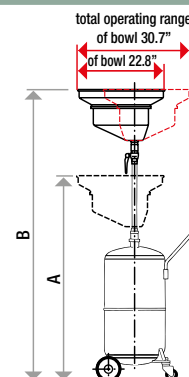
Antisplash screen

Adjustable bowl to increase operating range



OVERALL DIMENSIONS inches

P/N	A	B
42085-55	56.7"	69.4"
42090-55	58.2"	74.9"





# WASTE OIL AND ANTIFREEZE DRAINS

**Waste oil drain**, with wheel-mounted tank equipped with quick-release P/N 33137-55 connector for emptying the drained oil by wall mounted evacuation kit (page 153). Suitable for gravity draining of engine, gearbox and differential oil from all motor vehicles placed on an auto lift or pit. The bowl (3.9 gal) with height-adjustable central support is mounted on a swivel joint that facilitates positioning.

## P/N 33137-55



Male quick connector  
P/N 33127-55 + nipple

Article not manufactured  
by RAASM ordered separately



Do not use flammable or  
corrosive liquids



## P/N 42088-55

**Waste oil drainer** with wheel-mounted 23.8 gal tank with:

- quick-release connector for emptying the tank
- level gauge
- 3.9 gal collection bowl
- antislash screen/filter
- removable tool tray

<b>Tank capacity</b>	23.8 gal
<b>Max. collection capacity</b>	19.8 gal
<b>Bowl capacity</b>	3.9 gal
<b>Oversize funnel diameter</b>	ø 22.9"
<b>Draining hose length</b>	7'
<b>Max. height</b>	74.9"
<b>Min. height</b>	55.2"
<b>Draining pressure</b>	7 psi
<b>Packaging - Weight</b>	No. 2 10.6 ft <sup>3</sup> lb 75

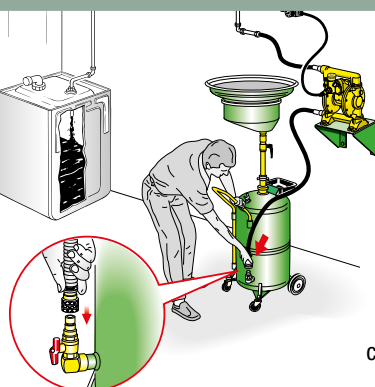
## P/N 42113-55

**Waste oil drainer** with wheel-mounted 30.4 gal tank with:

- quick-release connector for emptying the tank
- level gauge
- 3.9 gal collection bowl
- antislash screen/filter
- removable tool tray

	30.4 gal
	25.6 gal
	3.9 gal
	ø 22.9"
	-
	75.6"
	55.9"
	7 psi
	No. 2 14.8 ft <sup>3</sup> lb 93

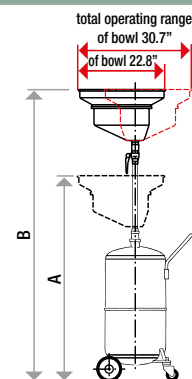
### DETAILS AND ADVANTAGES



Quick-release  
connector for emptying  
the drained oil

### OVERALL DIMENSIONS inches

P/N	A	B
42088-55	58.2"	74.9"
42113-55	55.9"	75.6"



# SUCTION POWER

To understand the concept of suction power it is important to remember the difference between pressure and depression. In this way the characteristics and advantages offered by the oil drain will be easy to understand.



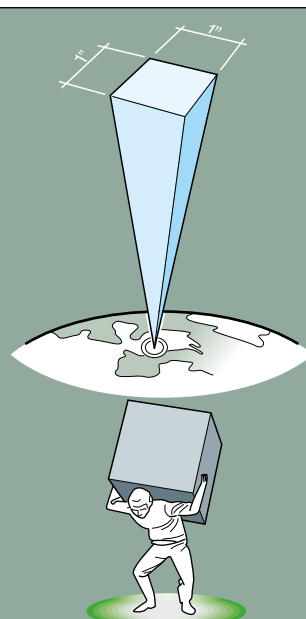
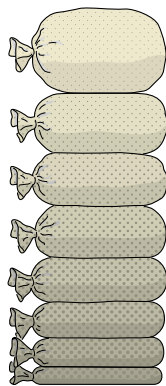
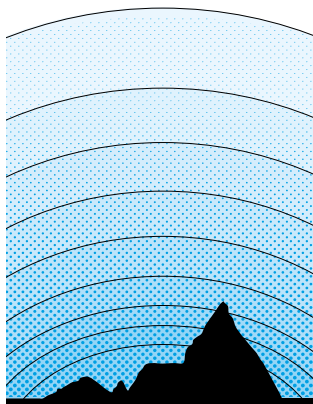
It is necessary to refer to the structure of the atmosphere that surrounds us and, above all, its barometric stratification and compressibility. Its lower layers, i.e. those nearest the ground, are more densely compressed than those higher up, precisely like what happens with a pile of bags of compressible material. (see picture 1).

The atmospheric pressure decreases as the altitude increases: At sea level it is 14.69 psi. At 6560 feet a.s.l., it is approximately 11.75 psi and at 32800 feet a.s.l., it falls to 4.41 psi (see picture 2). In general, pressure is obtained by compressing any type of fluid inside a given container, until reaching the required values: 10 - 20 - 100 - 200 psi etc. without limits, apart from those of the fluid container's structure and the power of the pump used.

On the other hand, a depression or vacuum is obtained by removing all the air contained in a given recipient or tank, and the maximum value obtainable (vacuum or suction power) is independent of the pumping or suction system used. Whatever is the pump used (electric pump, air pump, Venturi principle, etc.) the maximum depression (or suction power) obtained is equal to the atmospheric pressure outside the suction system. In fact, this value cannot be exceeded because, obviously, it is not possible to remove from a container more air than what it contains.

**PICTURE 1**

It is important to remember that the atmospheric pressure is given by the weight of the air above us, and this value is expressed in atmospheres. At sea-level this weight is approx. 14.5 lb per square inches



Atmospheric pressure

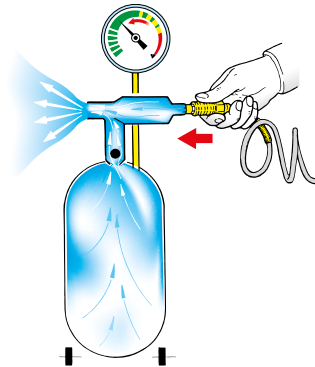
14.5 lb per square inches corresponds to 2044 lb per square feet of area; almost the same as 3 cubic feet block of lead. Man, however, does not feel this enormous weight exerted on him because the atmosphere is also present inside his body

# ATMOSPHERIC PRESSURE

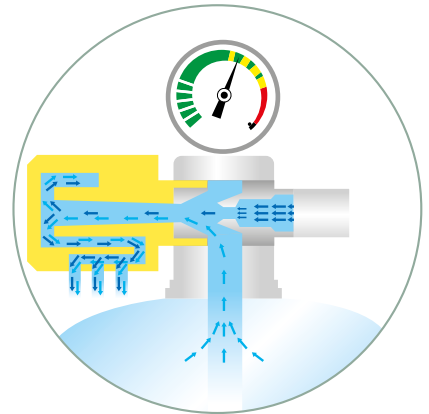
## PUMP OPERATION WITH VENTURI PRINCIPLE

Connect a compressed air line (100 psi) to the special connection on the suction device. The air then passes through a special “MULTIPLIER NOZZLE” of the Venturi unit. The air increases in speed considerably, creating “EDDIES” that can suck and “pump” all the air contained in the suction device tank, thus creating a complete vacuum.

For correct depressurization, the pressure of the air passing through the Venturi system must be between 90 psi and 105 psi.

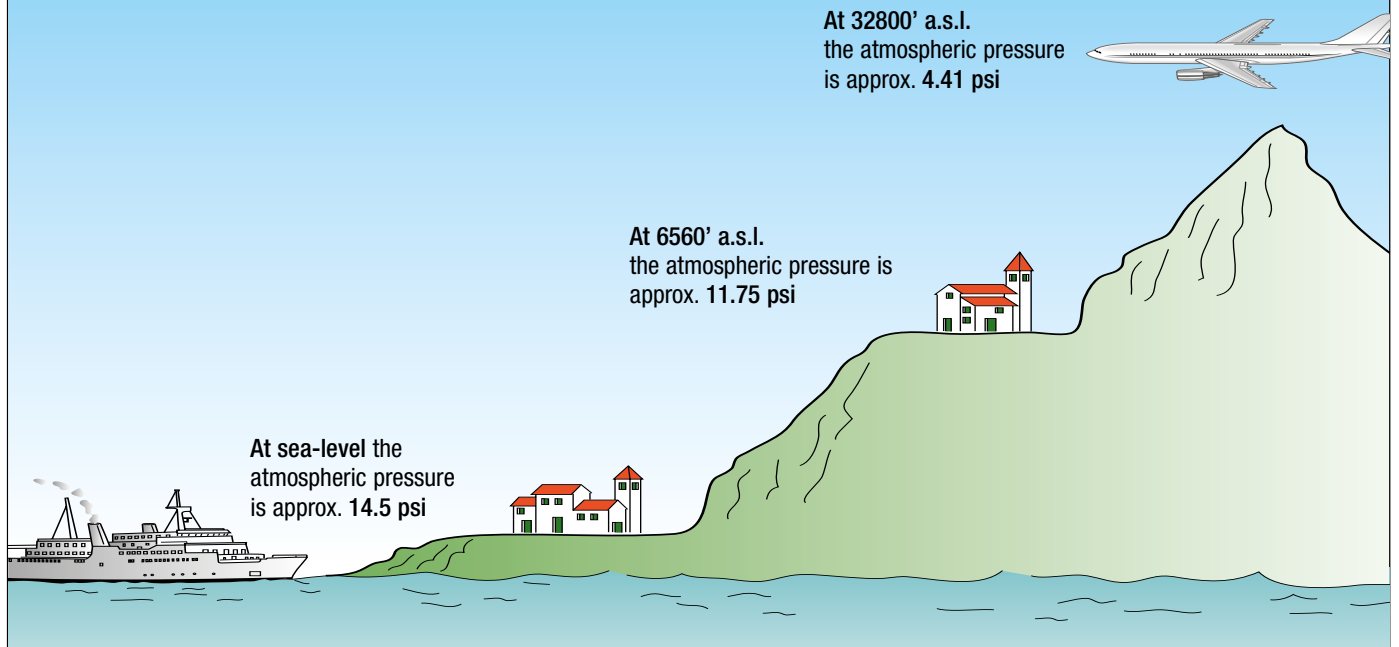


Therefore the suction force generated by the Venturi principle is equal to that obtained with any other air-operated and/or electric pump.



The air pressure at sea-level is 14.5 psi, at 6560' above sea level (a.s.l.) the pressure falls to approximatively 11.75 psi (see picture 2).

### PICTURE 2







# WASTE OIL SUCTION-DRAINS

**Air-operated drains**, ideal for quick engine oil change of any motor vehicle. Suitable for extracting more than 2 gal from trucks, tractors and heavy vehicles. The waste oil is extracted from the engine by means of the probes supplied. After depressurization the drain works independently without requiring continuous connection to the compressed air system. Extract hot oil at 155 - 180 °F.



## P/N 43084-55

**Air-operated waste oil drain** with wheel-mounted 21.1 gal tank, equipped with:

- level gauge
- removable tool tray
- P/N 45560-55 set of probes

<b>Tank capacity</b>	21.1 gal
<b>Max. draining capacity</b>	16.4 gal
<b>Depressurisation time</b>	2 min
<b>Suction speed</b>	0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")
<b>Total suction capacity</b>	15 - 16 gal
<b>Suction hose</b>	7'
<b>Draining hose</b>	7'
<b>Max. pressure for draining</b>	7 psi
<b>Packaging - Weight</b>	No. 1 6.7 ft <sup>3</sup> lb 66

## P/N 43065-55

**Air-operated waste oil drain** with wheel-mounted 17.2 gal tank, equipped with:

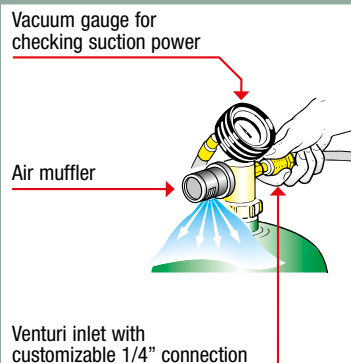
- level gauge
- removable tool tray
- P/N 45560-55 set of probes
- transparent chamber 2.1 gal

17.2 gal
13.7 gal
2 min
0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")
11 - 12 gal
7'
7'
7 psi
No. 2 8.8 ft <sup>3</sup> lb 69

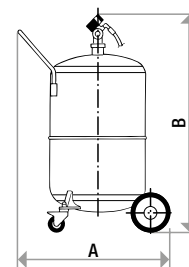
### USE



### DETAILS AND ADVANTAGES



### OVERALL DIMENSIONS inches




P/N	A	B
<b>43084-55</b>	35.3"	24.8"
<b>43790-55</b>	39.4"	25.2"



# PANTOGRAPH OIL SUCTION-DRAINS

**Air-operated combination suction-drain** with large pantograph collection bowl (3.7 or 13.2 gal) and wheel-mounted 17.2 or 30.4 gal tank. The waste oil is drained by gravity with floor tray or raised for trucks placed on auto lifts or pit, or by suction with the probes supplied. After depressurization the drain works without requiring continuous connection to the compressed air system. Extract hot oil at 155 - 180 °F.

 Do not use flammable or corrosive liquids



## P/N 46065-55

**Air-operated universal oil suction-drainer with 17.2 gal tank**, equipped with:



- level gauge
- large 3.7 gal collection bowl on cantilever arms
- removable tool tray
- P/N 45560-55 set of probes



## P/N 46215-55

**Universal waste oil suction/drain with wheel-mounted 30.4 gal tank**, equipped with:

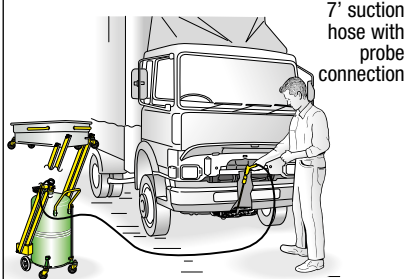
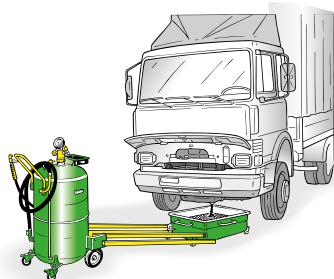
- level gauge
- large 13.2 gal collection bowl on cantilever arms
- removable tool tray
- P/N 45560-55 set of probes

### Packaging - Weight

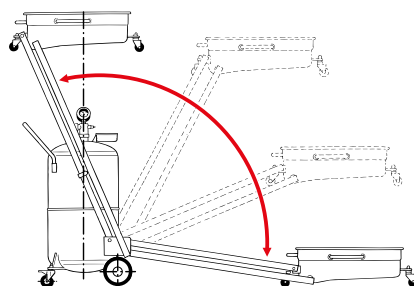
 No. 4 10 ft<sup>3</sup>  lb 80

 No. 4 17.6 ft<sup>3</sup>  lb 153

### USES

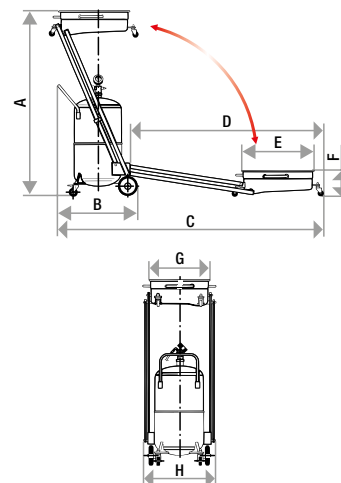


### DETAILS AND ADVANTAGES



The collection tank can be placed on the floor or raised under an auto lift by means of the cantilever arms

### OVERALL DIMENSIONS inches




P/N	A	B	C	D	E	F	G	H
46065-55	39.7"	22.5"	94.5"	55.5"	21.6"	5.5"	14.1"	18.9"
46215-55	61.4"	27.5"	100.5"	74.8"	26.0"	9.0"	20.0"	23.6"



# WASTE OIL DRAINS FOR BOATS

**Waste oil drains are ideal for changing the engine oil in boats.**

Draining occurs by means of a 13' suction hose and connections for inboard engines (P/N 45551-55) and outboard engines (P/N 45550-55).



 Do not use flammable or corrosive liquids



## P/N 43724-55

**Waste oil drain** with wheel-mounted 6.4 gal tank, equipped with:



- 13' suction hose
- special connections (P/N 45550-55 - P/N 45551-55)
- P/N 45560-55 standard probe series

Tank capacity	6.4 gal
Max. draining capacity	5.3 gal
Depressurisation time	1-1.5 min
Suction speed	0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")
Total suction capacity	4 - 4.2 gal
Suction hose	13'
Draining hose	-
Max. pressure for draining	manual
Packaging - Weight	 No. 1 3.2 ft <sup>3</sup>  lb 30

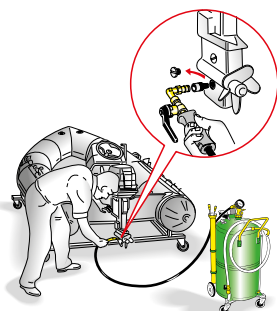
## P/N 43760-55

**Waste oil drain** with wheel-mounted 17.2 gal tank, equipped with:

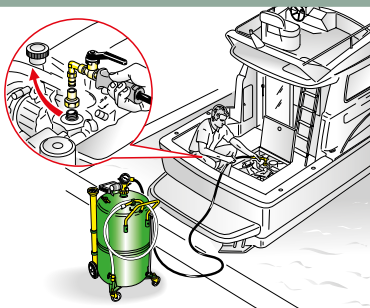
- 13' suction hose
- special connections (P/N 45550-55 - P/N 45551-55)
- P/N 45560-55 standard probe series

Tank capacity	17.2 gal
Max. draining capacity	13.2 gal
Depressurisation time	2 min
Suction speed	0.40 - 0.53 gpm (oils 158 - 176 °F, probes 0.24")
Total suction capacity	11.4 - 11.9 gal
Suction hose	13'
Draining hose	7'
Max. pressure for draining	7 psi
Packaging - Weight	 No. 2 8.1 ft <sup>3</sup>  lb 61

### DETAILS AND ADVANTAGES

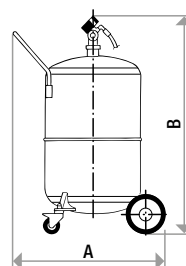


**P/N 45550-55**  
3/8" - 16 UNC connection for outboard engines



**P/N 45551-55**  
3/4" - NH connection for inboard engines

### OVERALL DIMENSIONS inches



P/N	A	B
43724-55	33.8"	11.0"
43760-55	33.8"	23.6"



# WALL MOUNTED DRAINS

## Series 3/4" wall mounted drain dispensers with diaphragm pump.

The probes evacuate the waste liquid from vehicle or motorcycles. The diaphragm pump, equipped with special NBR high nitrile seals, is suitable for extracting and delivering fluids such as: various oils, waste oil, antifreeze liquid and diesel oil.



Do not use flammable or corrosive liquids

## P/N 45300-55

**Drain-dispenser with wall-mounted station, operated by diaphragm pump Series 3/4", equipped with:**

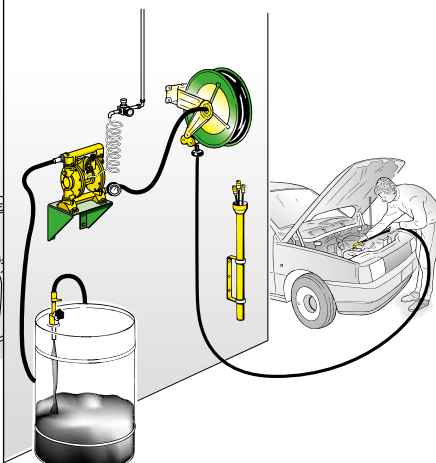
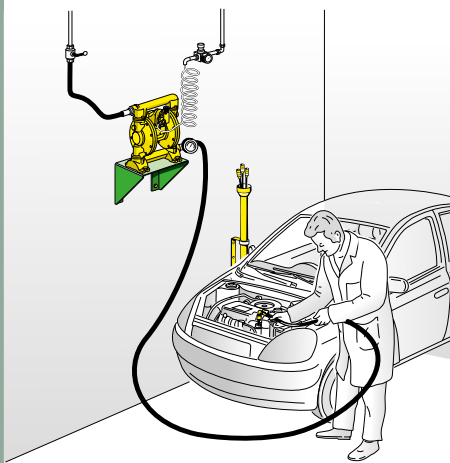
- diaphragm pump P/N 32/2011NHH2-55 with vacuum gauge
- P/N 33590-55 wall bracket
- P/N 45540-55 probe Ø 12
- 13' suction/delivery hoses
- P/N 45560-55 set of probes
- P/N 45570-55 wall-mounted probe kit

### Packaging - Weight

No. 1 2.8 ft<sup>3</sup> lb 31

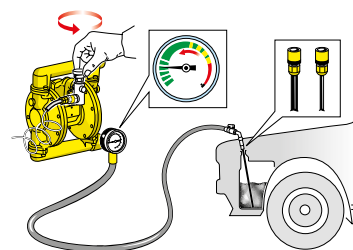
Best use of the product is obtained by connecting it to a fixed system for direct draining of the extracted liquid in the storage tank

### USES



### DETAILS AND ADVANTAGES

For correct draining, the pump must operate slowly. To adjust the working speed, operate the flow regulator, "metering" the inlet air feed. Make sure the vacuum gauge indicator is always in the optimum position



# PROBES AND CONNECTORS FOR SUCTION DRAINS

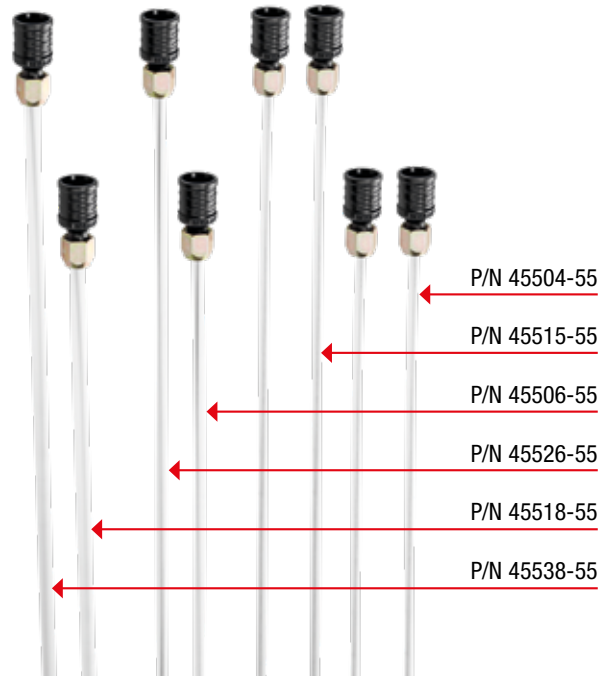
**Standard probe series:** All the drains used for changing engine oil come with a series of standard flexible probes in addition to connectors for engines with incorporated probes.

## STANDARD PROBE SERIES P/N 45560-55

consisting of:

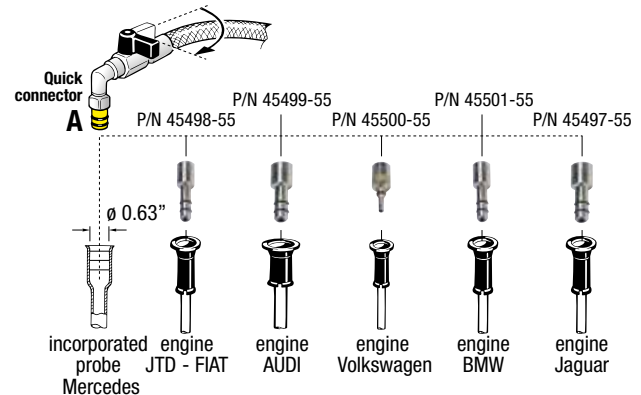
- P/N 45504-55 flexible probe  $\varnothing$  0.20" - length 27.5" - 2 pcs
- P/N 45506-55 flexible probe  $\varnothing$  0.24" - length 27.5"
- P/N 45515-55 flexible probe  $\varnothing$  0.20" - length 39.4" - 2 pcs
- P/N 45518-55 flexible probe  $\varnothing$  0.32" - length 27.5"
- P/N 45526-55 flexible probe  $\varnothing$  0.24" - length 59.1"
- P/N 45538-55 flexible probe  $\varnothing$  0.32" - length 59.1"

■ Note: the probes can be supplied separately



## CONNECTORS FOR INCORPORATED PROBES

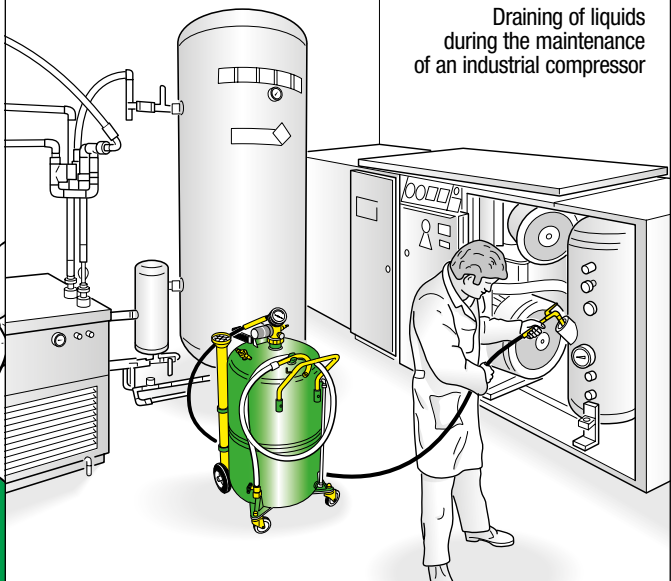
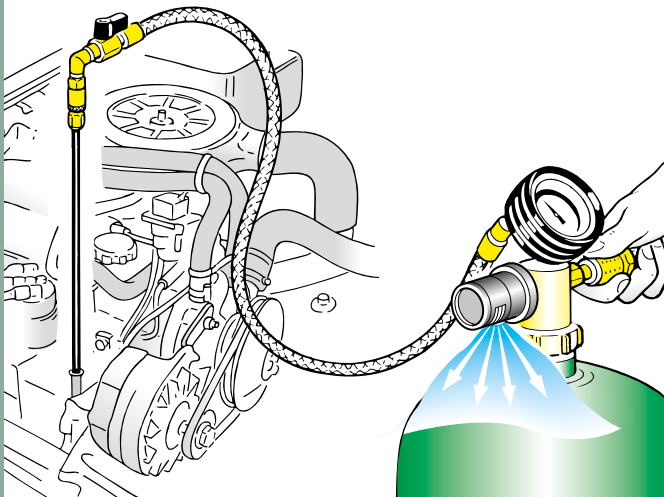
- for Mercedes cars connect the quick-release connector (A) of the oil drain directly to the probe incorporated in the engine.
- for JTD Fiat Group cars: P/N 45498-55
- for Audi cars: P/N 45499-55
- for Volkswagen cars: P/N 45500-55
- for BMW cars: P/N 45501-55
- for Jaguar cars: P/N 45497-55



Suitable for draining waste oil on motorcycles, trucks, tractors, heavy-duty vehicles

Draining of liquids during the maintenance of an industrial compressor

USES



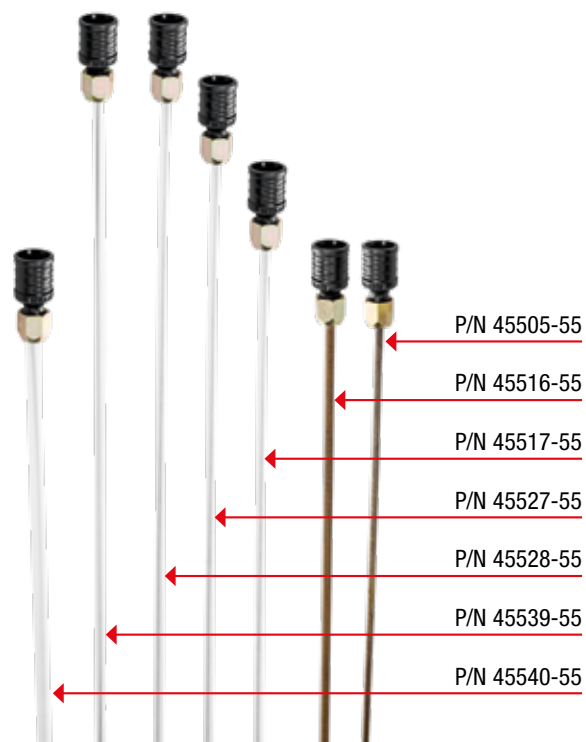


# FLEXIBLE AND METAL PROBES ACCESSORIES

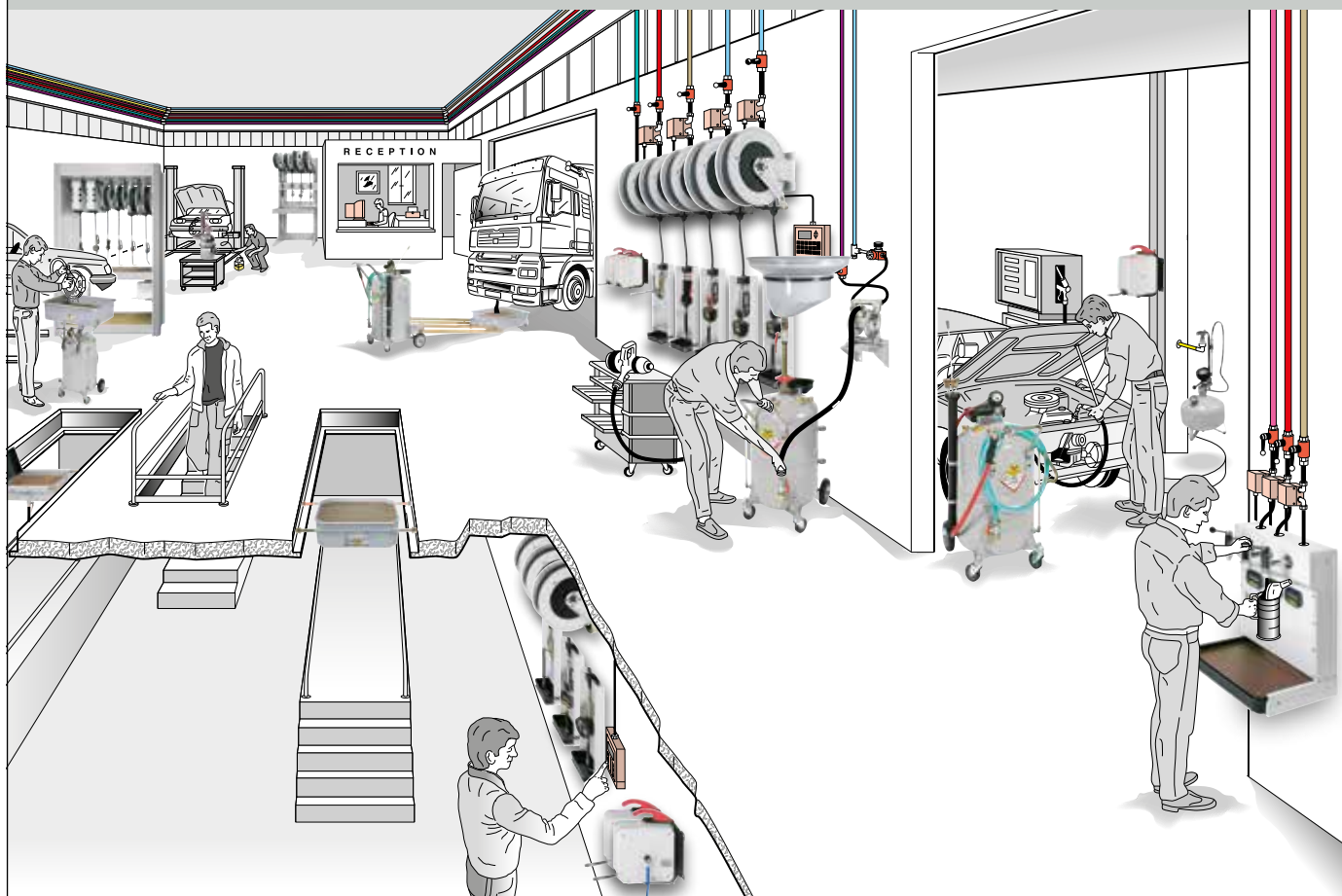
**Probes supplied on request:** Non-standard probes available by request. Indicated for vehicles requiring a longer probe for draining the oil from the bottom of the sump.

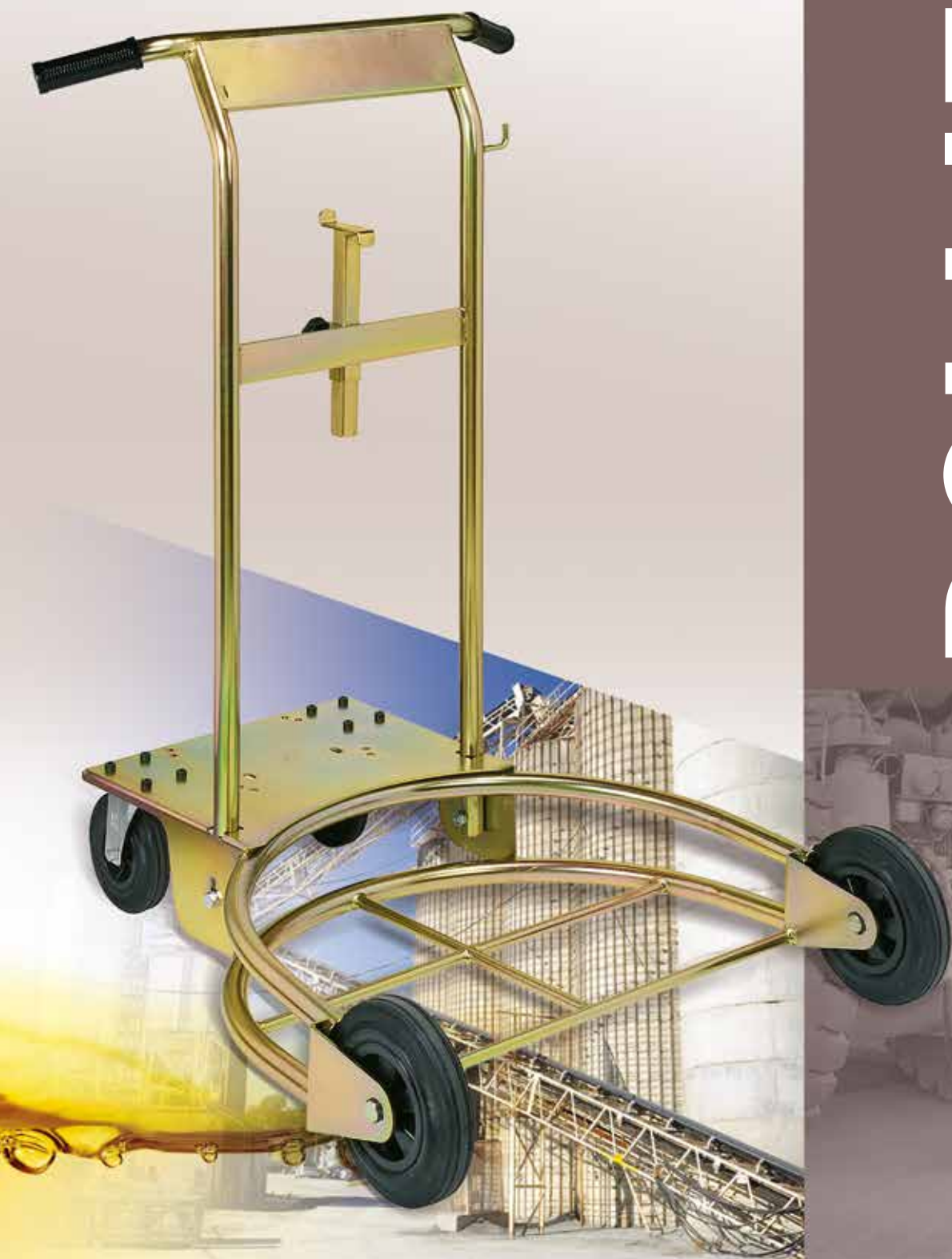
## PROBES SUPPLIED ON REQUEST

- P/N 45505-55 rigid probe  $\varnothing$  0.20" - length 27.5"
- P/N 45516-55 rigid probe  $\varnothing$  0.24" - length 27.5"
- P/N 45517-55 flexible probe  $\varnothing$  0.28" - length 39.4"
- P/N 45527-55 flexible probe  $\varnothing$  0.28" - length 59.1"
- P/N 45528-55 flexible probe  $\varnothing$  0.28" - length 78.8"
- P/N 45539-55 flexible probe  $\varnothing$  0.32" - length 78.8"
- P/N 45540-55 special flexible probe  $\varnothing$  0.47" - length 27.5"



## EXAMPLE OF USES IN A WORK-SHOP





# SE17100



# INDEX



**Dollies**

page **166**

# MODULAR DOLLIES

**Modular dollies, entirely galvanized**, suitable for handling 35 - 120 lb drums. Equipped with smooth wheels that make them extremely easy to handle. Their compact size ensures perfect integration in the workplace and their modularity enables compact packing for easy storage.



**P/N 80040-55**

**Dolly** equipped with double handle and 2 fixed wheels, adjustable, for grease drums 35 - 120 lb (16 gal)

<b>Packaging - Weight</b>	No. 1 0.4 ft <sup>3</sup> lb 13
---------------------------	---------------------------------

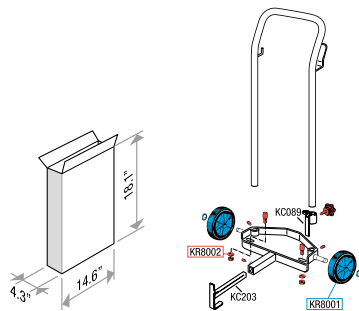


**P/N 80050-55**

**Dolly** equipped with 2 castors and 2 fixed wheels, adjustable, for containers 35 - 120 lb (16 gal)

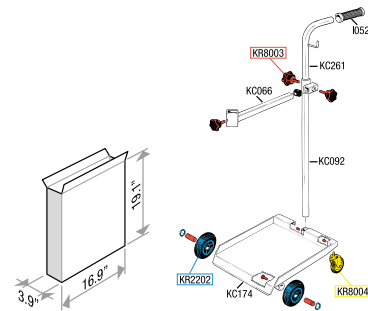
No. 1 0.7 ft <sup>3</sup> lb 20
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EXPLODED VIEW



Compact packing dimensions

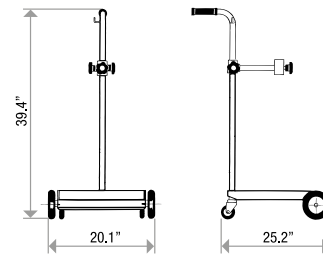
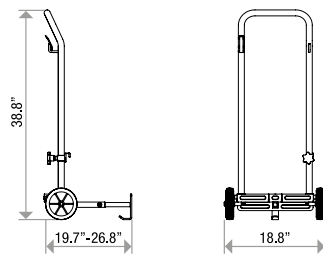
Modular dolly



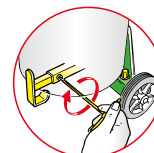
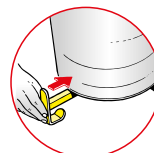
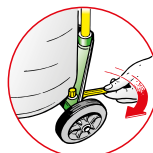
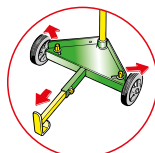
Compact packing dimensions

Modular dolly

OVERALL DIMENSIONS inches



ADJUSTMENT FOR P/N 80040-55





### P/N 80200-55

**Dolly** equipped with 2 castors and 2 fixed wheels, standard for drums 400 lb (55 gal)

No. 1 2.1 ft<sup>3</sup> lb 48



### P/N 80210-55

**Dolly** equipped with 2 castors and 2 fixed wheels, for containers 400 lb (55 gal), with hose reel support

No. 1 6.4 ft<sup>3</sup> lb 42

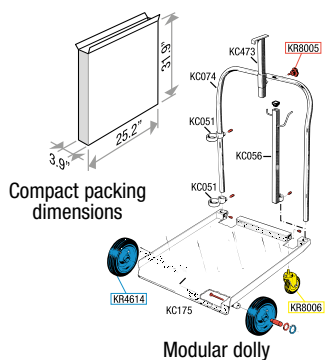


### P/N 80021-55

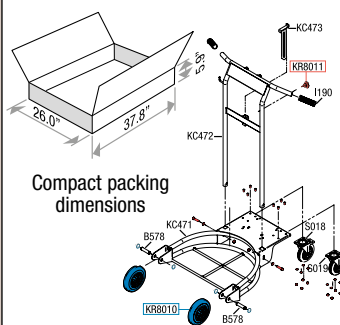
**Simple dolly** with 4 castors suitable for 35 lb (5 gal) container

No. 1 0.5 ft<sup>3</sup> lb 6

EXPLODED VIEW



Modular dolly



Modular dolly

### P/N 80022-55

**Simple dolly** with 4 castors suitable for 120 lb (16 gal) container

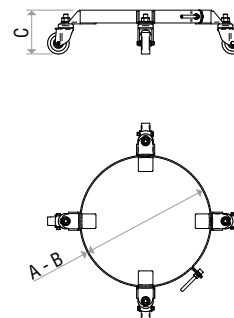
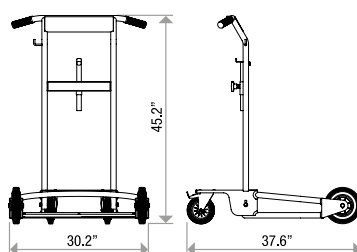
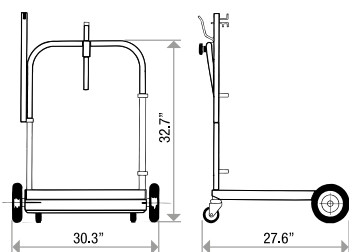
No. 1 0.7 ft<sup>3</sup> lb 6.7

### P/N 80023-55

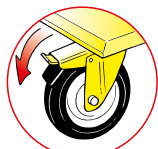
**Simple dolly** with 4 castors suitable for 400 lb (55 gal) container

No. 1 1.3 ft<sup>3</sup> lb 10.4

OVERALL DIMENSIONS inches



DETAILS FOR  
P/N 80210-55



The brake on the wheel allows to block the dolly when necessary

P/N	from ø A to ø B	C
80021-55	10"-12"	5"
80022-55	15"-17"	5"
80023-55	22"-24"	6"



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