

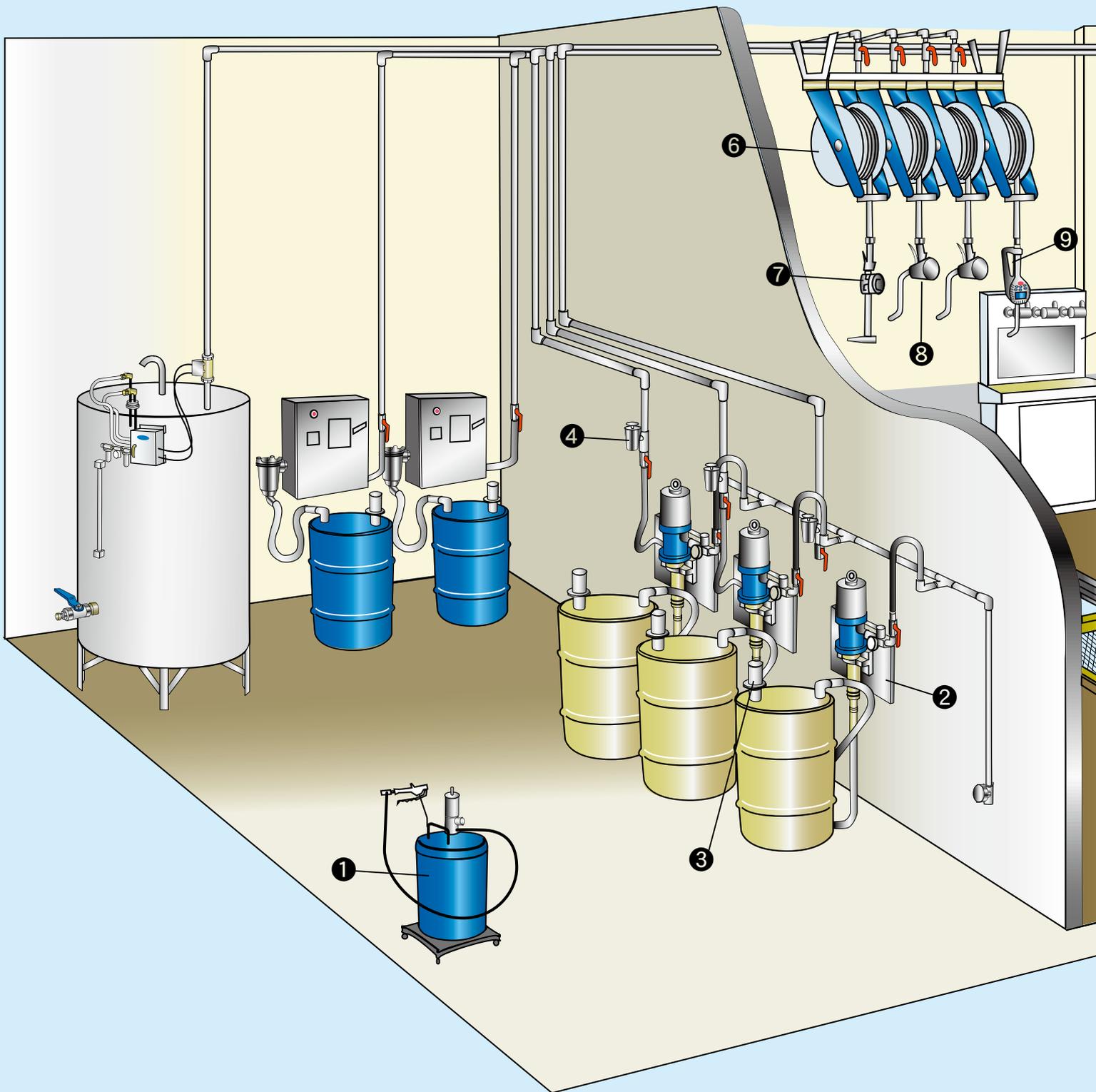


# *Lubricating Equipment*



*Quality without compromise!*

2008



# CENTRALIZED LUBRICATION SYSTEM



## GUARANTEE

All Yamada lubricating equipment is guaranteed against defects or material failure for a period of 12 months from the date of purchase. Hoses provided by Yamada for use with Yamada lubrication equipment are guaranteed for six months. Part claims returned to Yamada or an authorized Yamada service agent with charges prepaid will be repaired or replaced free of charge (FOB, factory or service Agent Depot) if upon examination, defective manufacture or materials, not owing to improper use are discovered. The guarantee is based on installation and use in accordance with factory recommendations and installation. It does not apply if the equipment has been damaged due to misuse, improper installation, negligence or accident.

## CONVERSION DATA (CONVERSION FACTORS)

Centimeter to feet	Multiply	by	0.03280
Centimeter to inches	"	"	0.3937
Cu.centimeter to cu.in.	"	"	0.06102
Cu.centimeter to gallons	"	"	0.002642
Cu.meters to gallons	"	"	264.17
Cu.meters to cu.ft.	"	"	35.31
Cu.meters to cu.in.	"	"	61,023.38
Inches to meters	"	"	0.0254
Inches to millimeter	"	"	25.40005
Kilograms to pounds	"	"	2.2046
Kilograms/sq.cm to psi	"	"	14,2233
Kilograms/sq.cm to Mpa	"	"	0.1
Mpa to psi	"	"	142
Meters to feet	"	"	3.2808
Meters to inches	"	"	39.37

## REMARKS

### POWER SOURCES



COMPRESSED AIR



HAND OPERATION



AC 100V/220-240V



DC 24V OR  
OTHER BATTERY

### SUITABLE MATERIAL FOR USE



NLGI No.0 GREASE



NLGI No.1 GREASE



NLGI No.2 GREASE



NLGI No.3 GREASE



GEAR, ENGINE &  
MACHINE OILS



PAINTS



AUTOMATIC  
TRANSMISSION  
FLUID



REFRIGERANT GAS



WATER or HOT WATER



VACUUM

### SUITABLE CONTAINER



18 (16KGS) PAIL



200 (180KGS) DRUM

### METHODS OF CONTAINING



HAND CONTAIN



420m /210m ORIGINAL  
CARTRIDGE



85m ORIGINAL  
CARTRIDGE

# CONTENTS

	<b>page</b>
<b>Hand-Operated Lubricators</b>	<b>5-12</b>
<b>Air-Operated Lubricators</b>	<b>13-18</b>
<b>Electric Driven Grease Lubricators</b>	<b>19-20</b>
<b>Air-Operated Grease Supply Pumps</b>	<b>21-26</b>
<b>Air-Operated Oil Supply Pumps</b>	<b>27-31</b>
<b>Hose Reels</b>	<b>32-37</b>
<b>Compact Reel Series</b>	<b>38-42</b>
<b>Dispense Valves &amp; Nozzles</b>	<b>43-47</b>
<b>Mobile Lubrication Systems</b>	<b>48-49</b>
<b>Pneumatic Level Alarms &amp; Level Controller</b>	<b>50-52</b>
<b>Paint Spray Pump Unit</b>	<b>53</b>
<b>Waste Oil Drainers</b>	<b>54-56</b>
<b>Oil Dispense Bars</b>	<b>57</b>
<b>A.T.F. Changer</b>	<b>58</b>
<b>Engine Oil Changer</b>	<b>59</b>
<b>Tire Air Inflators</b>	<b>60-61</b>
<b>Tire Nitrogen Inflator</b>	<b>62</b>
<b>Refrigerant Recovery Units</b>	<b>63-64</b>
<b>Handy Type Grease Guns</b>	<b>65-70</b>
<b>Index</b>	<b>71-72</b>

# HAND-OPERATED LUBRICATORS

## Hand Bucket Pump EXS Series

Yamada EXS series hand operated oil and grease pumps are specially designed for the international market and can provide approximately 50% or less in shipping volume compared to other models. They provide increased portability and versatility in any kind of work environment and are especially suited to work sights where compressed air or electricity are not available.



### FOR GREASE

880624

### SK-77EXS



### FOR OIL

880626

### STB-60EXS



### FOR OIL

880627

### STB-70EXS

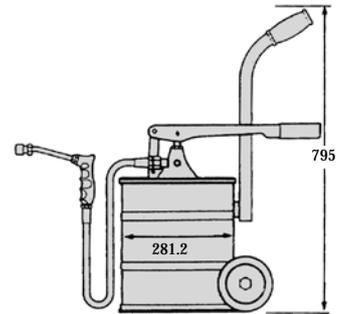


**880624 SK-77EXS GREASE BUCKET PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
18	3.2g/stroke	25MPa (250kgf/cm <sup>2</sup> )	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" × 2m DELIVERY HOSE	9.6	0.0855

**Dimensions (mm)**

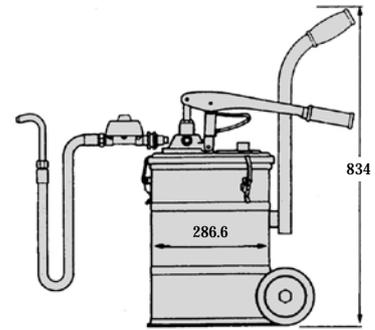


**880626 STB-60EXS OIL BUCKET PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
20	40Ml/stroke	802519 VINYL HOSE 2m W/NOZZLE 851942 STB-M OIL METER W/FILTER	10.4	0.1012

**Dimensions (mm)**

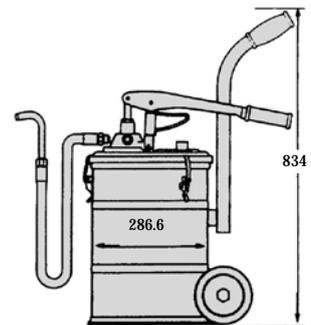


**880627 STB-70EXS OIL BUCKET PUMP**

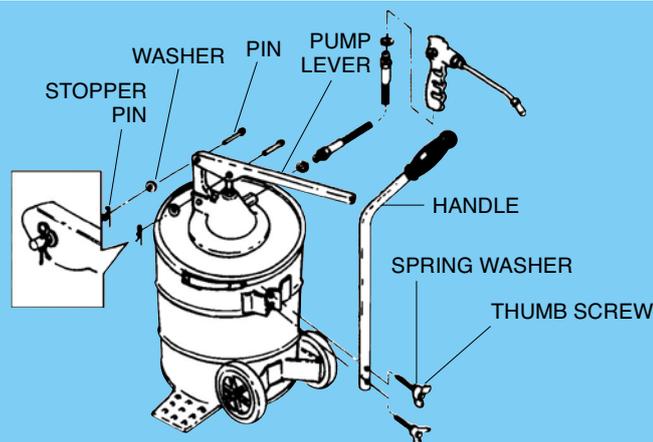
**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
20	40Ml/stroke	802519 VINYL HOSE 2m W/NOZZLE	9.0	0.1728

**Dimensions (mm)**



**INSTALLATION**



# HAND-OPERATED LUBRICATORS

## Hand Bucket Pumps for Grease

These hand operated grease pumps are fitted to their own 18 kg grease container. If required they can also fit onto most standard 18 kg grease pails. They are designed to handle grease at viscosities of NLGI No.000 to No.0.

A range of accessories is available on request, including follower plates, and hoses of various lengths.



880307  
**SK-55**



880308  
**SK-77**



880194  
**SK-8**



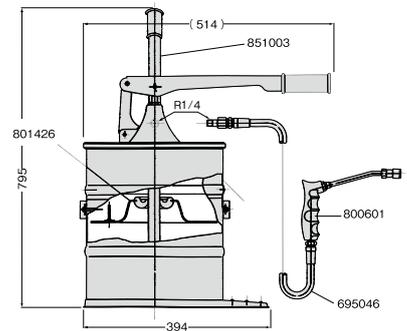
**880307 SK-55**

**GREASE BUCKET PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
18	3.2g/stroke	25MPa (250kgf/cm <sup>2</sup> )	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" × 2m 801426 FOLLOWER PLATE	8.7	0.1785

**Dimensions (mm)**



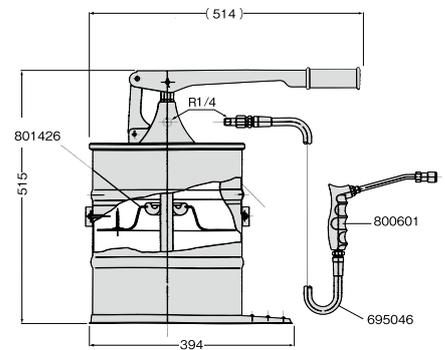
**880308 SK-77**

**GREASE BUCKET PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
18	3.2g/stroke	25MPa (250kgf/cm <sup>2</sup> )	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" × 2m 851003 S-20 DOLLY 801426 FOLLOWER PLATE	11.3	0.2034

**Dimensions (mm)**



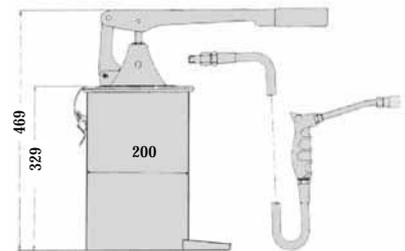
**880194 SK-8**

**GREASE BUCKET PUMP**

**SPECIFICATIONS**

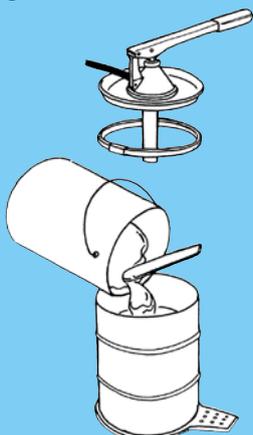
CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
10	3.2g/stroke	25MPa (250kgf/cm <sup>2</sup> )	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" × 2m	6.0	0.0448

**Dimensions (mm)**

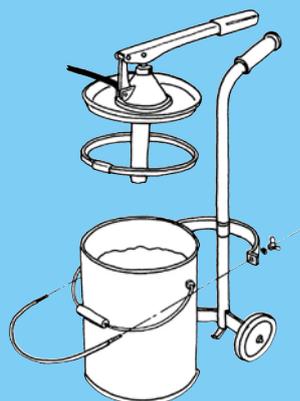


**INSTALLATION**

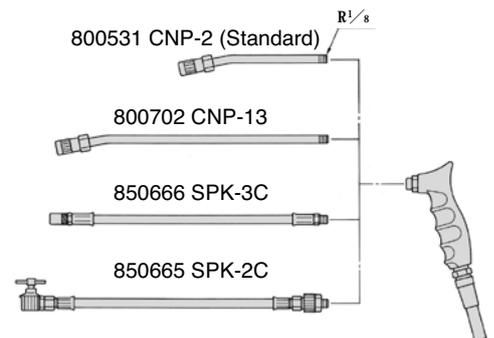
When refilling the standard grease container.



When fitting to other kinds of grease pail.



**EXTENSION NOZZLES**



※ See P.67 for optional nozzles.

# HAND-OPERATED LUBRICATORS

## Hand Bucket Pumps for Oil

Self-contained and sealed oil bucket pumps with a 20-liter capacity. These pumps are completely sealed to the oil container preventing any contamination or spillage. An economical bare pump unit is also available.



880134  
**STB-50**



880135  
**STB-60**



880136  
**STB-70**



880571  
**HOP-20**



851003 **S-20 DOLLY**



851942  
**STB-M OIL METER**



Rotary piston oil meter with 78mm dial registering 4 liters in 1/10-liter graduations.

Max pressure : 4MPa (40kgf/cm<sup>2</sup>)

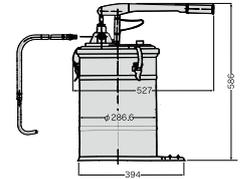
Max Flow : 8 /min

## 880134 STB-50 OIL HAND BUCKET PUMP

### SPECIFICATIONS

MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880134	STB-50	20	40M <sup>3</sup> /stroke	695453 STB-2MB 1/4" × 2m OIL HOSE W/NOZZLE	7.4	0.1043

### Dimensions (mm)

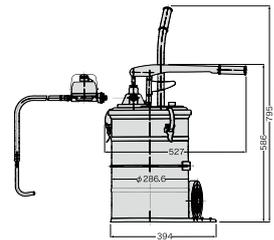


## 880135 STB-60 OIL HAND BUCKET PUMP

### SPECIFICATIONS

MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880135	STB-60	20	40M <sup>3</sup> /stroke	695453 STB-2MB 1/4" × 2m OIL HOSE W/NOZZLE 851942 STB-M OIL METER 851003 S-20 DOLLY	11.3	0.1938

### Dimensions (mm)

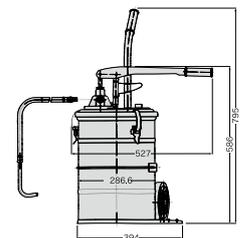


## 880136 STB-70 OIL HAND BUCKET PUMP

### SPECIFICATIONS

MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880136	STB-70	20	40M <sup>3</sup> /stroke	695453 STB-2MB 1/4" × 2m OIL HOSE W/NOZZLE 851003 S-20 DOLLY	9.9	0.2034

### Dimensions (mm)



## 880571 HOP-20 OIL HAND BUCKET PUMP

### SPECIFICATIONS

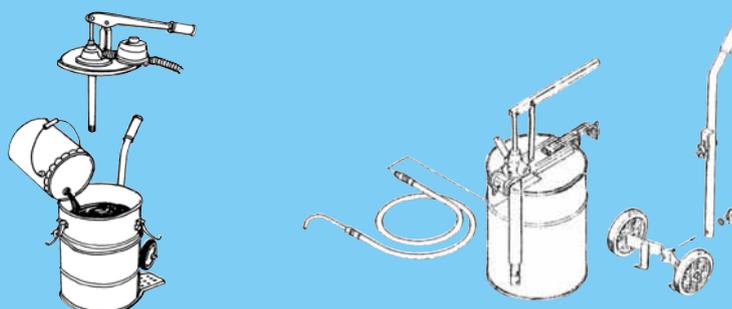
MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880571	HOP-20	20 PAIL	60M <sup>3</sup> /stroke	695453 STB-2MB 1/4" × 2m OIL HOSE W/NOZZLE 851676 S-10 DOLLY	4.5	0.0415

### Dimensions (mm)



## INSTALLATION

When refilling the standard oil container.



# HAND-OPERATED LUBRICATORS

## Oval-Shaped Bucket Pumps



**FOR GREASE**  
880276  
**HPG-50**



**FOR OIL**  
880318  
**LPO-50**



## Volume Pumps for High Viscosity Oil



880133  
**VO-50**



880132  
**VO-8**



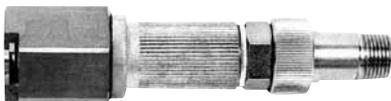
800894 **Standard Nozzle**  
for VO-50



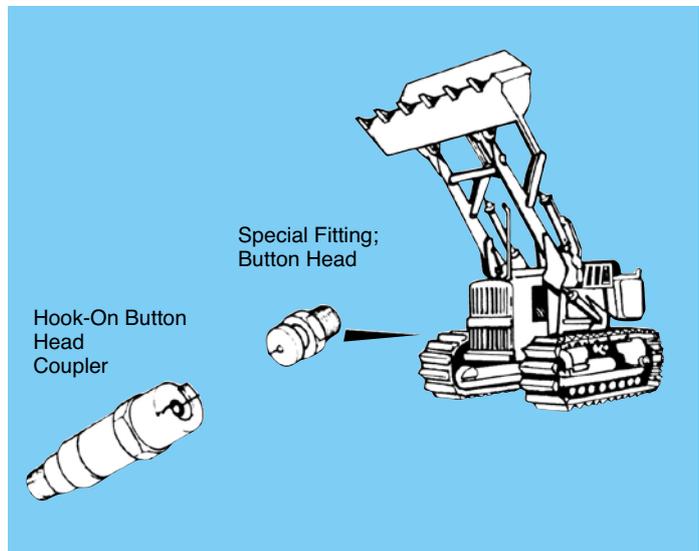
**Dimensions (mm)**



800628 **Large Dia-Nozzle**  
for VO-50



800772 **Standard Nozzle**  
for VO-8



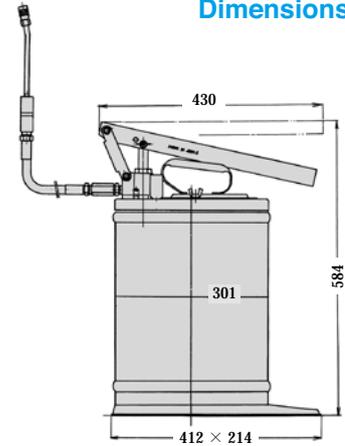
**880276 HPG-50 GREASE BUCKET PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
15	3.2g/stroke	※20MPa (200kgf/cm <sup>2</sup> )	801836 3/8 × 1.5M HOSE W/800547 HYDRAULIC EXTENSION NOZZLE	9	0.0588

※ Designed for Easy Delivery of Chassis Grease and High Viscosity Oil.  
Developed for 12 to 25MPa with 2 Stages Adjustable Leverage.

**Dimensions (mm)**

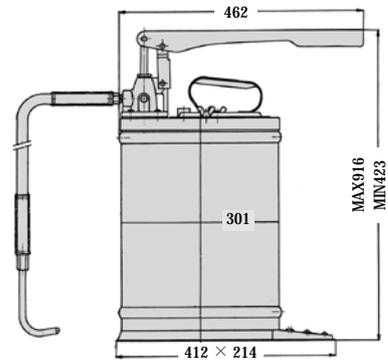


**880318 LPO-50 OIL BUCKET PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
15	40Ml/stroke	802823 VINYL HOSE 2m W/NOZZLE	8.8	0.0599

**Dimensions (mm)**

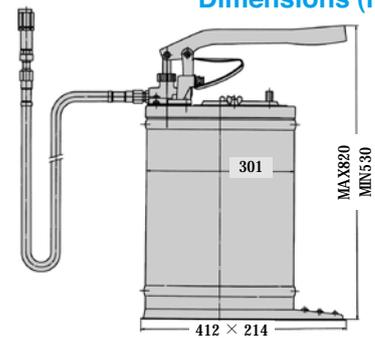


**880133 VO-50 VOLUME PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
15	24Ml/stroke	5MPa (50kgf/cm <sup>2</sup> )	695055 VO50-1.5M 3/8 × 1.5m HOSE 800894 VO50-15 BUTTON HEAD COUPLER	9.6	0.0673

**Dimensions (mm)**

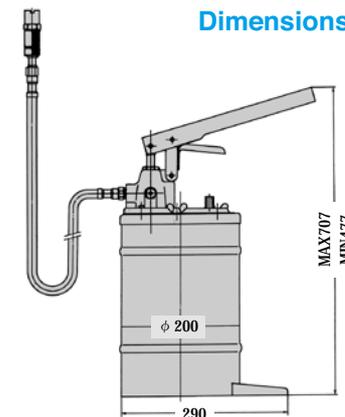


**880132 VO-8 VOLUME PUMP**

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
8	20Ml/stroke	2MPa (20kgf/cm <sup>2</sup> )	695056 VO8-1M 3/8 × 1m HOSE 800772 VO8-15 BUTTON HEAD COUPLER	5.4	0.0432

**Dimensions (mm)**



# AIR-OPERATED LUBRICATORS

## Grease Lubricators

Air operated grease lubricators 65 series 55:1 pumps and heavy-duty 110 series 50:1 pumps are available in this series. Any standard 18kg grease pail can be put directly into the pumps large cabinet. This system eliminates grease contamination and waste. The recommended grease viscosity range is from NLGI No.000 to No.2. Various different sized air pumps are available in this range.



880870  
**SKR-55**



880877  
**SKR-66**



880631  
**SKR-110A50**



880873  
**KPL-55**



※ Grease container is not included

**880870 SKR-55 GREASE LUBRICATOR**

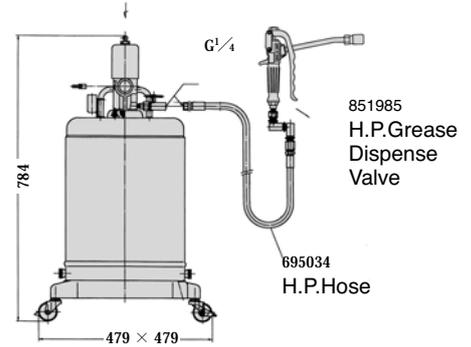
**SPECIFICATIONS**

CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
18	0.2 ~ 0.7Mpa (2 ~ 7kgf/cm <sup>2</sup> )	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" × 2.5m DELIVERY HOSE	14.5	0.1492

**PUMP DATA**

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
852498	55 : 1	320g/min	40MPa. MAX. (400kgf/cm <sup>2</sup> )	212N /min

**Dimensions (mm)**



**880877 SKR-66 GREASE LUBRICATOR**

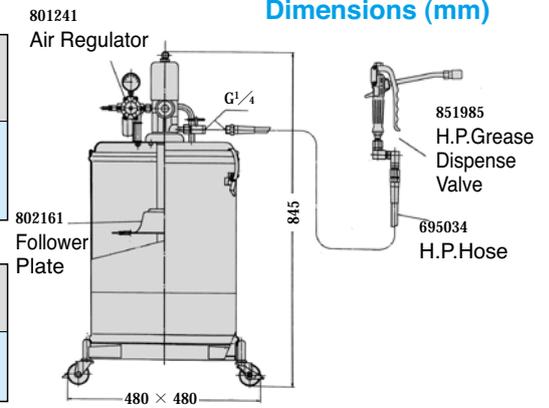
**SPECIFICATIONS**

CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
18	0.2 ~ 0.7Mpa (2 ~ 7kgf/cm <sup>2</sup> )	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" × 2.5m DELIVERY HOSE 802161 FOLLOWER PLATE 801241 AIR REGULATOR	19.4	0.2085

**PUMP DATA**

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
852764	55 : 1	320g/min	40MPa. MAX. (400kgf/cm <sup>2</sup> )	212N /min

**Dimensions (mm)**



**880631 SKR-110A50 HEAVY DUTY GREASE LUBRICATOR**

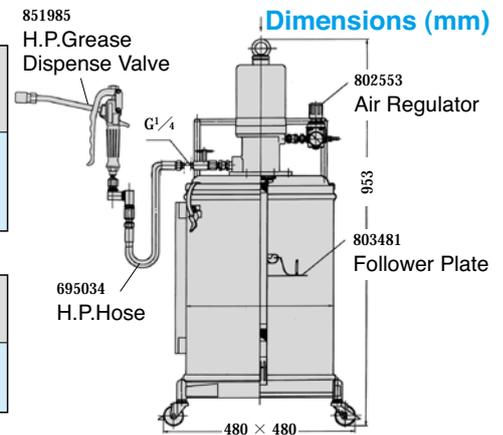
**SPECIFICATIONS**

CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
18kgs	0.2 ~ 0.7Mpa (2 ~ 7kgf/cm <sup>2</sup> )	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" × 2.5m DELIVERY HOSE 803481 FOLLOWER PLATE 802553 AIR REGULATOR	39.0	0.3748

**PUMP DATA**

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
851779	50 : 1	1,200g/min	25MPa. MAX. (250kgf/cm <sup>2</sup> )	320N /min

**Dimensions (mm)**



**880873 KPL-55 STANDARD PAIL LUBRICATOR KIT**

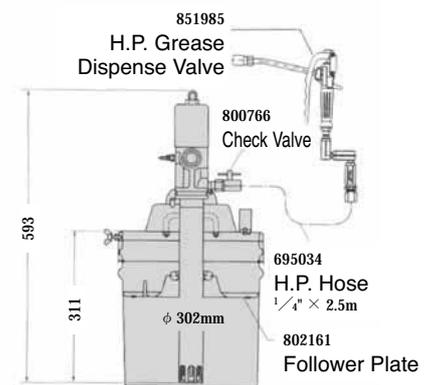
**SPECIFICATIONS**

AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
0.2 ~ 0.7Mpa (2 ~ 7kgf/cm <sup>2</sup> )	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" × 2.5m DELIVERY HOSE 831162 PAIL COVER 802161 FOLLOWER PLATE	9.4	0.06

**PUMP DATA**

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
852765	55 : 1	320g/min	400MPa. MAX. (4000kgf/cm <sup>2</sup> )	212N /min

**Dimensions (mm)**



# AIR-OPERATED LUBRICATORS

## Oil Lubricators

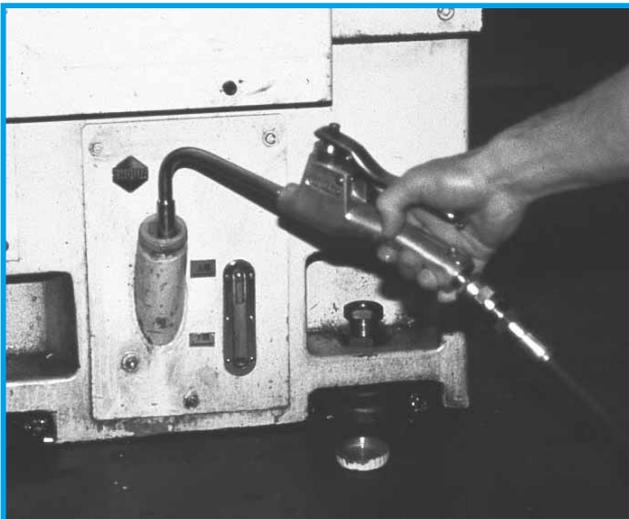
65 series 1.7:1 ratio and high volume 110 series 5:1 ratio pumps are available in this series. They come complete with a large cabinet and a stable four caster base providing maximum portability and versatility. They come complete with an oil meter to measure oil volume as well as other accessories.



880267  
**SGR-55**



880635  
**SGR-110A5**



**880267 SGR-55 OIL LUBRICATOR**

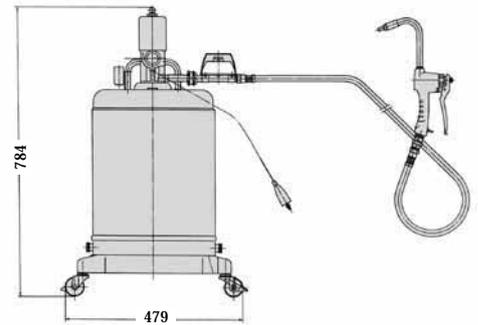
**SPECIFICATIONS**

CONTAINER CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
20	0.2 ~ 0.7Mpa (2 ~ 7kgf/cm <sup>2</sup> )	850206 SGR-5TG L.P.OIL CONTROL VALVE 695052 SGR-55-1.5M 3/8"×1.5m OIL HOSE 802570 OIL METER	17.0	0.1613

**PUMP DATA**

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
850792	1.8 : 1	7 /min	1.2MPa (12kgf/cm <sup>2</sup> )	130N /min

Dimensions (mm)



**880635 SGR-110A5 OIL LUBRICATOR**

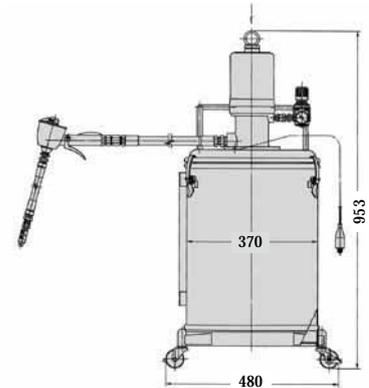
**SPECIFICATIONS**

CONTAINER CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
20	0.2 ~ 0.7Mpa (2 ~ 7kgf/cm <sup>2</sup> )	801428 LBM-G GRIP METER 801195 NDN-H NON-DRIP NOZZLE.FLEXIBLE 804553 OIL-SJ SWIVEL JOINT 695700 110H-3M 1/2"×3m OIL HOSE 802553 AIR REGULATOR W	17.0	0.1613

**PUMP DATA**

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
851755	5 : 1	10 /min	1.5MPa (15kgf/cm <sup>2</sup> )	300N /min

Dimensions (mm)

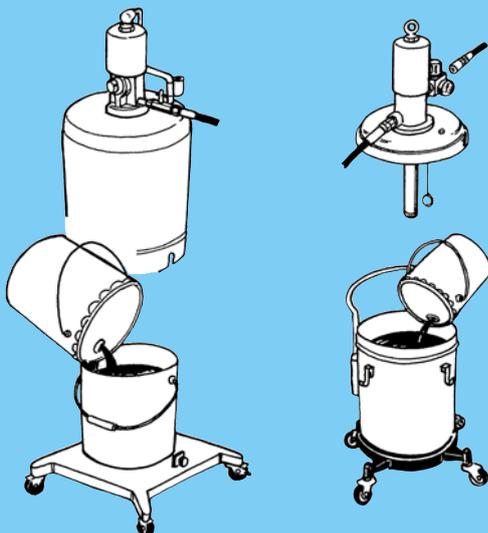


**METHODS OF INSTALLATION**

**OIL LUBRICATOR**

880267 **SGR-55**

880635 **SGR-110A5**

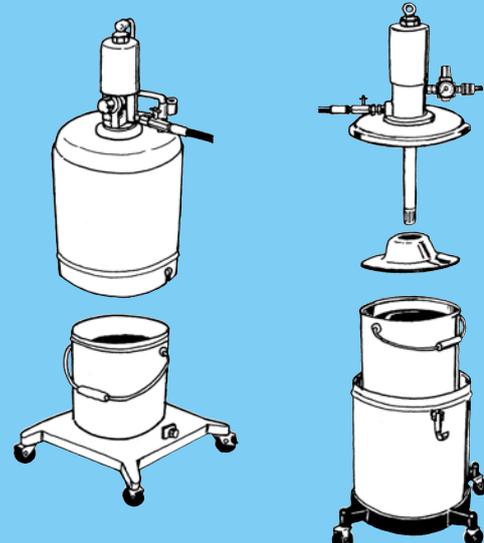


**GREASE LUBRICATOR**

880870 **SKR-55**

880877 **SKR-66**

880631 **SKR-110A50**



# AIR-OPERATED LUBRICATORS

## Bearing Grease Packer

The portable air operated bearing grease packer, GP85 provides quick and efficient removal of old grease and repacks with new grease. It can be used for ball and roller bearings from 15mm ID to 100mm ID. By using the nozzle attachment kit (optional) the unit can repack grease without disassembling the inner bearings.



880605  
**GP-85**



**880605 GP-85 BEARING GREASE PACKER**

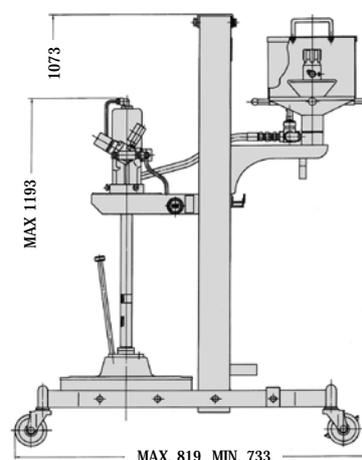
### SPECIFICATIONS

CONTAINER CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
18 PAIL	0.2 ~ 0.7Mpa (2 ~ 7kgf/cm <sup>2</sup> )	802629 INDUCTOR PLATE 852768 PUMP UNIT	48.0	0.1896

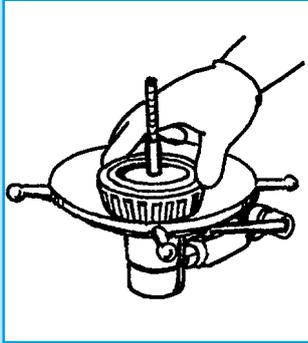
### PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
852768	55 : 1	320g/min	40MPa (400kgf/cm <sup>2</sup> )	212N /min

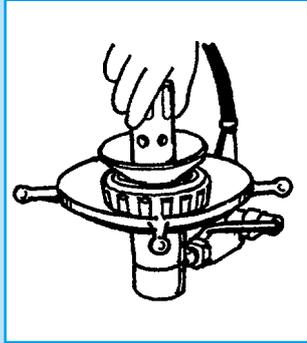
### Dimensions (mm)



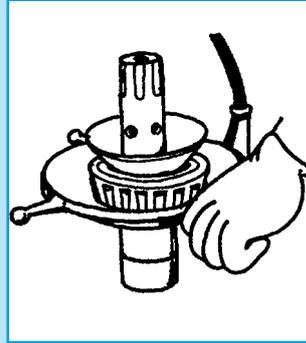
## OPERATING INSTRUCTIONS



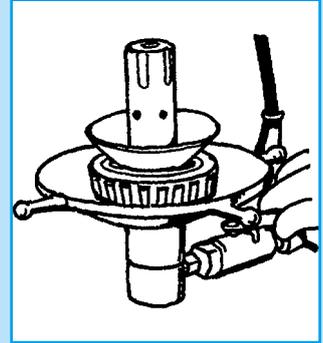
1. After washing and inspecting, set the bearing on the under-corn correctly



2. place the upper corn onto the center shaft correctly, turn 90° and lock.



3. Turn the handle of the under corn counterclockwise (screwing upward) and fix the bearing in place.



4. Turn on the grease supply valve and fill the bearing with grease. Make sure that the grease is flowing correctly. Turn off the supply valve when finished.

## Nozzle Attachment Kit

### 851661 GP-KIT

This nozzle attachment kit consists of grease dispensing valve, H.P. hose, rubber nozzles (medium and large) and rigid straight nozzle.

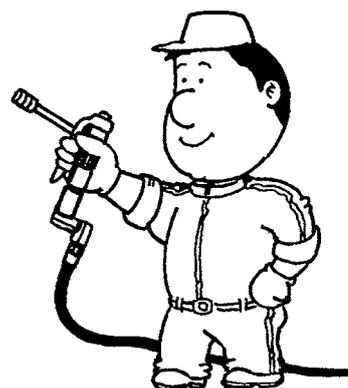
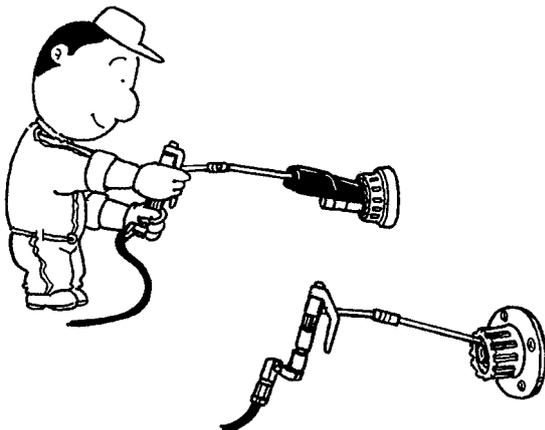


### COMPONENTS

MODEL NO	DESCRIPTION
802242	DISPENSE VALVE
695286	H.P. HOSE
802241	NOZZLE (M)
802240	NOZZLE (S)
802239	STRAIGHT NOZZLE

### OPTIONAL NOZZLES

MODEL NO	DESCRIPTION
802416	NOZZLE (S)
802417	NOZZLE (L)



# ELECTRIC DRIVEN GREASE LUBRICATOR

## Electric Driven Grease Lubricators

The KPL-24 is an electrically powered grease lubricator specifically designed for use on heavy construction machinery. It is powered by the internal DC 24V batteries standard in most heavy vehicles. The KPL-24 is compact, sturdy and provides maximum portability on any work site especially where there are no other readily available power sources. It will fit onto standard 18 liter grease pails. It has a high discharge pressure and is capable of pumping grease of various viscosities. A variety of accessories are available including different length hoses, power cords, reels and metering devices. This pump is very efficient and a good option for any worksite. AC240V powered version is also available.



880639  
**KPL-24**



※ Grease container is not included.



880899  
**EPL-100**  
881081  
**EPL-240**



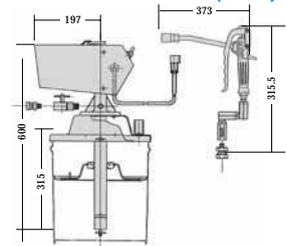
※ Grease container is not included.

### 880639 KPL-24 ELECTRIC DRIVEN GREASE LUBRICATOR DC-24V

#### SPECIFICATIONS

MODEL NO.	MODEL	CONTAINER	POWER SOURCE	MAX FREE FLOW	MAX OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880639	KPL-24	18 PAIL	DC24V 100~300W 2~7.5A	120 M <sup>3</sup> /min	28MPa (280kgf/cm <sup>2</sup> )	852164 HPG-G13 H.P. GREASE DISPENSE VALVE 803085 FOLLOWER PLATE POWER CODE 2.5M	12	0.0494

#### Dimensions (mm)

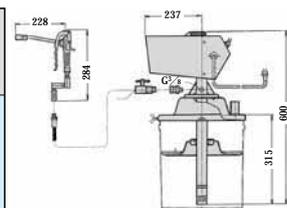


### 880899/881081 EPL-100/EPL-240 ELECTRIC DRIVEN GREASE LUBRICATOR AC100V/240V

#### SPECIFICATIONS

MODEL NO.	MODEL	CONTAINER	POWER SOURCE	MAX FREE FLOW	MAX OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880899	EPL-100	18 PAIL	AC100V 200W 1~3A	190 M <sup>3</sup> /min	28MPa (280kgf/cm <sup>2</sup> )	852164 HPG-G13 H.P. GREASE DISPENSE VALVE 695034 SKR-2.5M H.P. GREASE HOSE 1/4"× 2.5M 803085 FOLLOWER PLATE POWER CODE 2.5M	12	0.0494
881081	EPL-240		AC240V 200W 1~3A					

#### Dimensions (mm)



## Accessories

852077

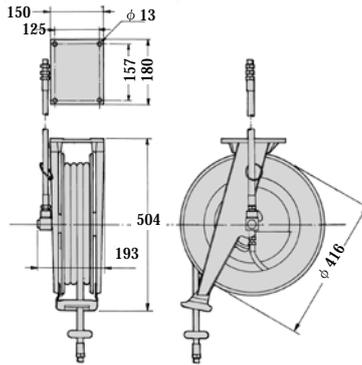
### SR-3C10K HOSE REEL



### SPECIFICATIONS

MODEL NO.	MODEL	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
		HOSE LENGTH & I.D.	OUTLET	HOSE LENGTH & I.D.	OUTLET			
880639	KPL-24	3/8" × 10M	Rc3/8"	3/8" × 1.5M	Rc3/8"	35MPa	17	0.066

### Dimensions (mm)



695303

### H.P. GREASE HOSE (3/8" × 10m)



※ 852164 HPG-G13 Grease gun is not included.

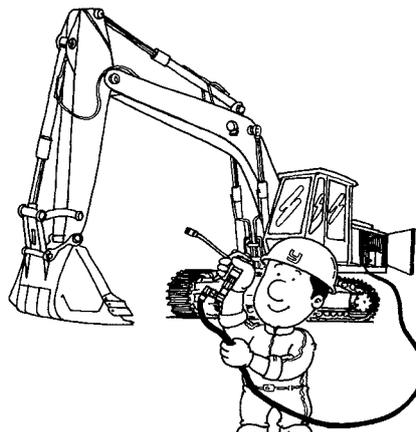
### 851003 S-20 DOLLY



### 802335 KPL-55C CASTER



### 683239 COVER



# AIR-OPERATED GREASE SUPPLY PUMPS

## Grease Supply Pumps

The 65 series 55:1 series pumps come with different sized pump shanks to suit any grease container. The 110, 50:1 grease supply pump is able to transfer grease for long distances and to several outlets at once. Combined with a choice of hose reels, it's possible to create an effective centralized lubrication system.

Those pumps have unmatched performance and require minimal maintenance.



65 Series 55 : 1  
**NAKED PUMP**



65 Series 55 : 1  
**PUMP SET**



110 Series 50 : 1  
851783

**DR-110A50**



### 65 Series 55 : 1 **NAKED PUMP**

#### SPECIFICATIONS

MODEL NO.	PUMP RATIO	SHANK LENGTH (mm)	POWER SOURCE	SUCTION TUBE O.D. (φ mm)	MAX FREE FLOW	MAX OUTPUT PRESSURE	MAX OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)
852498	55 : 1	430	for SKR-55	38	320Mℓ / min	38.5MPa	250N / min	681170 SILENCER	3.8
852499		510							4.2
852500		725	55kg (120 Lbs)						5.8
852501		850	180kg (400 Lbs)						6.8
852762		950							7.6

### 65 Series 55 : 1 **PUMP SET**

#### SPECIFICATIONS

MODEL NO.	PUMP RATIO	SHANK LENGTH (mm)	POWER SOURCE	SUCTION TUBE O.D. (φ mm)	MAX FREE FLOW	MAX OUTPUT PRESSURE	MAX OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)
880844	55 : 1	430	for SKR-55	38	320Mℓ / min	38.5MPa	250N / min	802159 PUMP FLANGE	4.5
880845		510						800766 CHECK VALVE	5.0
880846		725	55kg (120 Lbs)					681170 SILENCER	6.6
880847		850	180kg (400 Lbs)						7.6

### 851783 65 Series 55 : 1 **PUMP SET**

#### SPECIFICATIONS

MODEL NO.	PUMP RATIO	SHANK LENGTH (mm)	POWER SOURCE	SUCTION TUBE O.D. (φ mm)	MAX FREE FLOW	MAX OUTPUT PRESSURE	MAX OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)
851783	50 : 1	870	180kg (400 Lbs)	35	1000Mℓ / min	35MPa	650N / min		10.9

## GREASE VISCOSITY AND SELECTION OF A PUMP

Grease viscosity and the selection of a pump.

Each pump should be selected depending on the type and viscosity of grease that is to be used. According to the JIS (Japanese Industrial Standard) the viscosity of the grease as classified on the JIS is the most significant factor in pump selection.

In order to pump highly viscous material efficiently, the pump should be fitted with a follower plate or inductor plate. When selecting a pump please refer to the following instructions.

### Classified Table

Viscosity	JIS No	NLGI No	Worked Penetration (25°C,60w)
Low (soft)	00	No.00	400 ~ 430
	0	No.0	355 ~ 385
↓ High (hard)	1	No.1	310 ~ 340
	2	No.2	265 ~ 295
	3	No.3	220 ~ 250

**A.** A SKR-55 series pump without a follower plate (Diagram A). The suction tube is placed into the grease. Similar to sucking through a straw, the grease is pumped up through the inlet at the end of the tube. Grease of a comparatively low viscosity (around No.00-0) can be pumped up smoothly. However if the pump is used for grease of high viscosity, the grease will be pumped up smoothly in the beginning, but gradually it will stick to the inside of the drum and a hole will be made around the suction inlet. (Diagram B)

**B.** A SKR-66 or SKR-110A50 pump fitted with a follower plate. The follower plate due to suction sticks to the surface of high viscosity grease (Diagram C). As the grease level decreases, the follower plate moves down the drum together with the grease helping the pump suction effectively. The follower plate also separates the grease from the outer air using a rubber wiper. This helps prevent contaminants and dampness from entering the drum.

**C.** A SKR110M50SAL pump with an inductor plate used for high viscosity grease No 2 or No 3 (Diagram D). The inductor plate is fixed to the section inlet of the pump with the whole pump assembly lowering down as the grease level decreases. In addition to absorption power and the deadweight of the pump, downward pressure can also be applied from a ram inductor (if fitted). In addition, the inductor plate uses a rubber wiper to prevent waist and contamination. By using an inductor plate it is possible to pump up all remaining material making this system extremely efficient.

### Caution

When using grease in cold atmospheric conditions, the grease viscosity will increase. In such cases, the above classifications should not be applied. Moreover when pumping a large amount of grease for example on a production line, always try to use a larger sized pump than required.

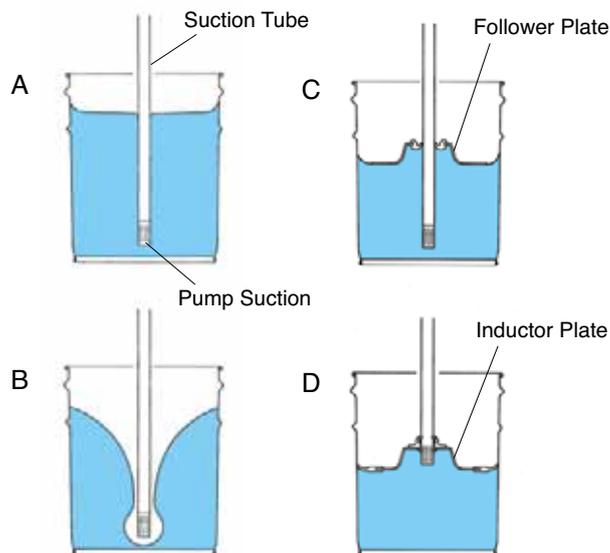
Please contact Yamada or your distributor for any enquires.

**D.** The pump with an inductor plate :applied to SKR110M50SAL Inductor plate is set at the suction part of pump and sticks to the surface of grease and goes down according to the decrease of grease. In addition to adsorption power, deadweight of pump and pressure of air lift (if it is stalled) push down the grease strongly and help sucking up the grease of viscosity No.2 and No.3. Wiper surrounding inductor plate sticks to the inside of the drum and goes down the grease inside. Inductor plate keeps the grease clean all the time, since it prevents an invasion of debris and drying.

### E. CAUTION

In case of using the grease in cold area, the viscosity will go up. Therefore, the above classification will not be applied. When using a great amount of grease continuously on production line, larger size of pump should be used.

Please contact us for the availability.



# AIR-OPERATED GREASE SUPPLY PUMPS

## Pump Mounting Flange

### 802159

For 65 series grease pump  
Includes grease nipple, mounting screw and washers.

802159



## Drum Covers

### 800821

For 180kgs/400lbs economical type of drum cover, which is designed for 65 series grease pumps.

800821



### 800412

For 180kgs/400lbs heavy duty drum cover, can be installed in air elevator unit. Suitable for 110 and 160 series pumps.

800412



## Follower Plates

Follower plates ride on the surface of the grease in a drum to reduce aeration and channeling. The plates have a center rubber grommet to seal around the pump tube and a formed cone to allow the pump to empty the drum fully.

### 802161

For 18kgs/40lbs. pail. 38mm I.D. × 300mm O.D.

802161



### 801426

For 18kgs/40lbs. pail. 23mm I.D. × 270mm O.D.

801426



### 800413

For 180kgs/400lbs. drum. 38mm I.D. × 556mm O.D.

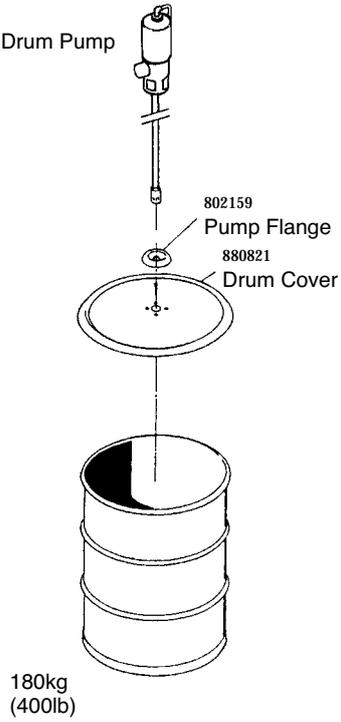
800413



# INSTALLATION

## FOR 180Kgs/400Lbs DRUM

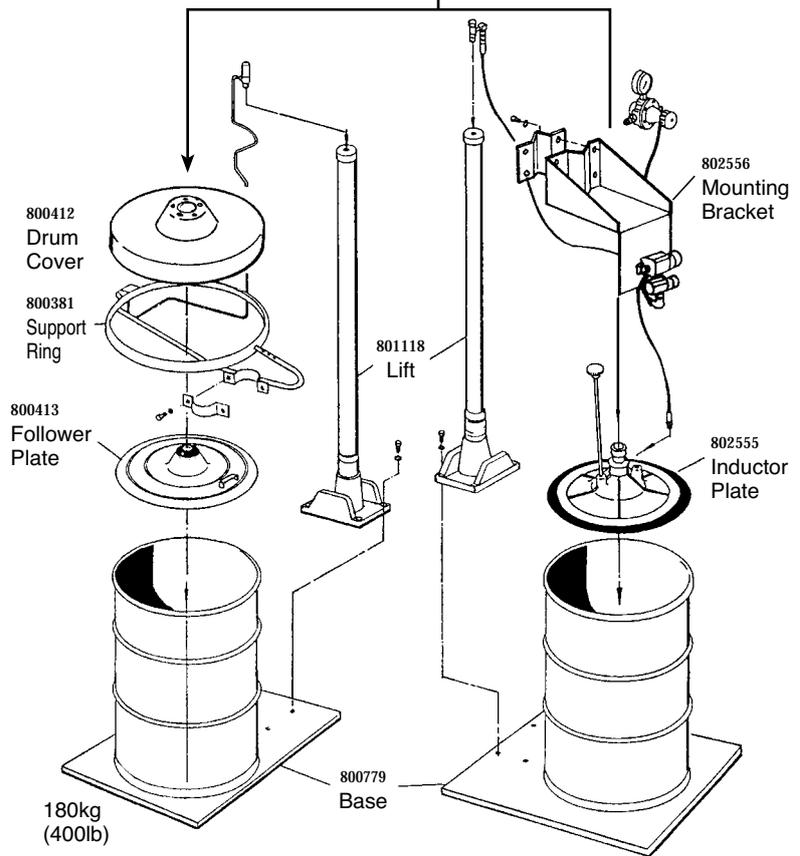
852501  
65 Type Drum Pump



851783  
DR-110A50

Assemble;

Assemble;



# AIR-OPERATED GREASE SUPPLY PUMPS

## Grease Pump Units

Heavy-duty grease pumps fitted with either a follower plate or an inductor plate. These pumps are able to transfer heavy viscosity grease and combined with an air-operated lift, make container changeovers simple and fast. The follower and inductor plates eliminate foreign contamination, and will fully empty the drum of all available grease.



880629

**HPP110A50**



880630

**HPP110A50AL**



880628

**DR110A50AL**

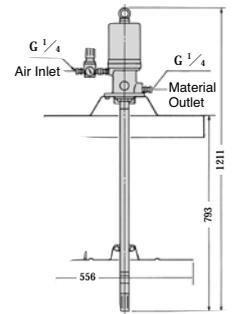


**880639 HPP110A50 GREASE PUMP UNIT**

**SPECIFICATIONS**

MODEL NO.	MODEL	CONTAINER	AIR SUPPLY PRESSURE	COMPONENTS	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
880629	HPP110A50	200 DRUM	0.2~0.7MPa (2~7kgf/cm <sup>2</sup> )	851783 DR110A50 PUMP 800412 DC-200R DRUM COVER 800413 FOLLOWER PLATE 802553 AIR REGULATOR	23	1.0792

**Dimensions (mm)**

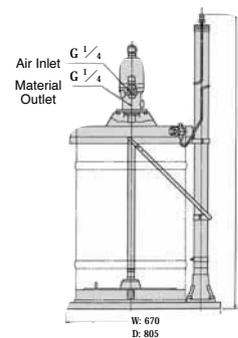


**880630 HPP110A50AL GREASE PUMP UNIT**

**SPECIFICATIONS**

MODEL NO.	MODEL	CONTAINER	AIR SUPPLY PRESSURE	COMPONENTS	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
880630	HPP110A50AL	200 DRUM	0.2~0.7MPa (2~7kgf/cm <sup>2</sup> )	851783 DR110A50 PUMP 800412 DC-200R DRUM COVER 800413 FOLLOWER PLATE 800381 SUPPORTING RING 801118 AIR LIFT 800779 BASE PLATE 802553 AIR REGULATOR	102	1.1246

**Dimensions (mm)**

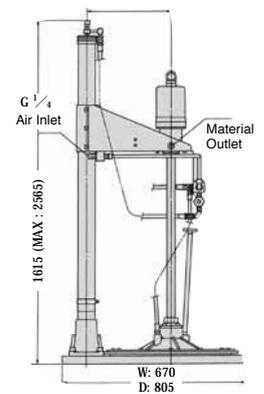


**880628 DR110A50AL GREASE PUMP UNIT**

**SPECIFICATIONS**

MODEL NO.	MODEL	CONTAINER	AIR SUPPLY PRESSURE	COMPONENTS	NET WEIGHT (kg)	MEASURE MENT (m <sup>3</sup> )
880628	DR110A50AL	200 DRUM	0.2~0.7MPa (2~7kgf/cm <sup>2</sup> )	851783 DR110A50 PUMP 801118 AIR LIFT 802555 INDUCTOR PLATE 802556 PUMP BRACKET 800779 BASE PLATE	113	1.0792

**Dimensions (mm)**



# AIR-OPERATED OIL SUPPLY PUMPS

## Oil Supply Drum Pumps

Yamada Air Operated Oil Transfer Pumps are available with 50, 90, 110 and 160, series air motors. There is a wide variety of pump ratios and with many output volumes to suit any type of requirement.



852628  
DR-50A1

852633  
DR-50A3

880966  
DR-90A3

881013  
DR-90A5

851754  
DR-110A5

850160  
DR-160A10

851826  
DR-110A15



### SPECIFICATIONS

MODEL NO.	MODEL	PUMP RATIO	AIR SUPPLY PRESSURE	MAX FREE FLOW ( / min.)	ACCESSORIES	NET WEIGHT (kg)
852628	DR-50A1	1 : 1	0.2~0.7MPa (2~7kgf/cm <sup>2</sup> )	28	803488 BUNG LOCK ADAPTER	5.3
852633	DR-50A3	3 : 1		13	803488 BUNG LOCK ADAPTER	5.7
880966	DR-90A3			22	803488 BUNG LOCK ADAPTER	7.1
881013	DR-90A5	5 : 1		17	804270 BUNG LOCK ADAPTER	8.5
851754	DR-110A5			12	802857 BUNG LOCK ADAPTER	11.7
850160	DR-160A10	10 : 1		12		17.0
851826	DR-110A15	15 : 1		3.8		9.0

### PUMP DATA

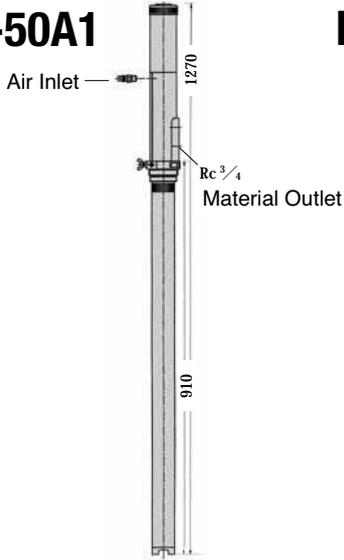
PUMP SERIES	50		90		110		160
PUMP RATIO	1 : 1	3 : 1	3 : 1	5 : 1	5 : 1	15 : 1	10 : 1
EFFECTIVE AIR MOTOR DIA.	35mm		55mm		77.8mm		113.5mm
EFFECTIVE AIR PISTON AREA	9.6cm <sup>2</sup>		28.3cm <sup>2</sup>		47.5cm <sup>2</sup>		100.5cm <sup>2</sup>
PISTON STROKE	89mm		89mm		60mm		100mm
MAX AIR CONSUMPTION	470N /min.		700N /min.		600N /min.		1,300N /min.

# AIR-OPERATED OIL SUPPLY PUMPS

## Dimensions (mm)

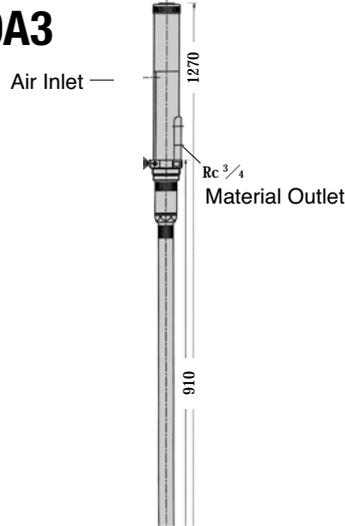
852628

**DR-50A1**



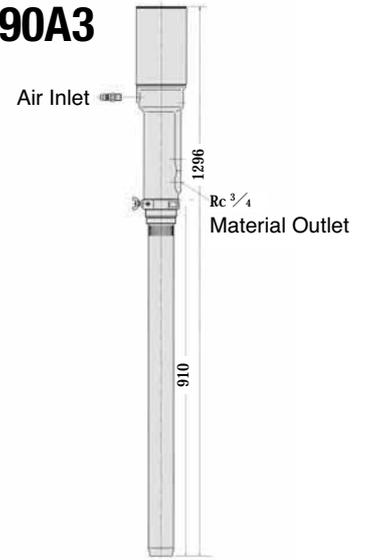
852633

**DR-50A3**



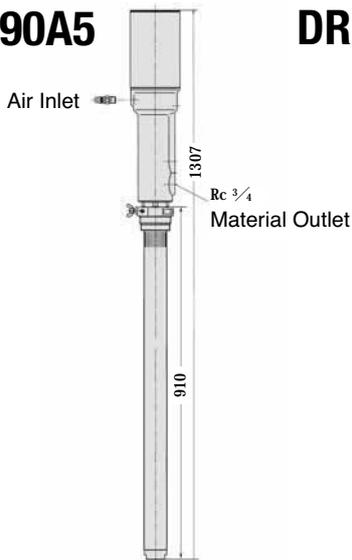
880966

**DR-90A3**



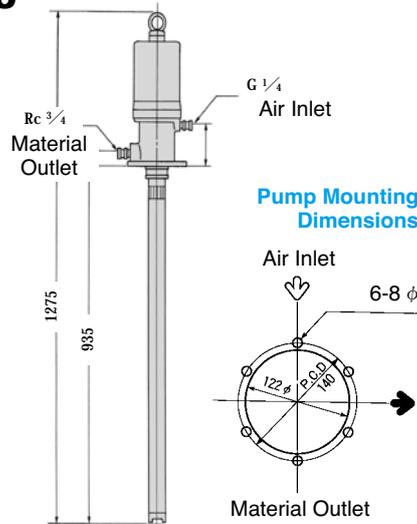
881013

**DR-90A5**



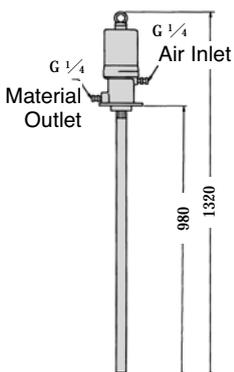
851754

**DR110A5**

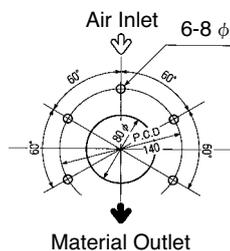


851826

**DR110A15**

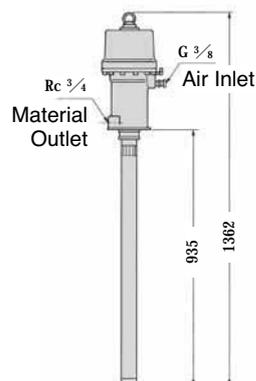


### Pump Mounting Dimensions

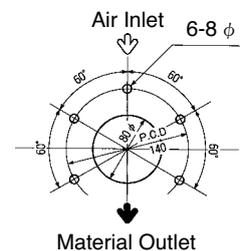


850160

**DR160A10**



### Pump Mounting Dimensions



# Oil Supply Siphon Pump



852629  
**SH-50A1**

852634  
**SH-50A3**

880967  
**SH-90A3**

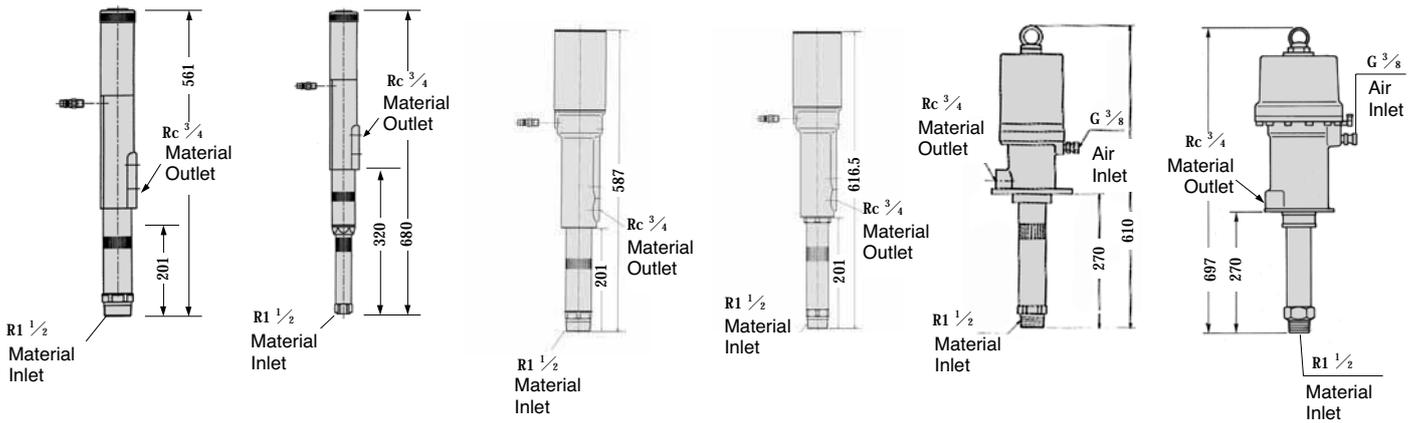
881014  
**SH-90A5**

851753  
**SH-110A5**

850097  
**SH-160A10**



## Dimensions (mm)



## SPECIFICATIONS

MODEL NO.	MODEL	PUMP RATIO	AIR SUPPLY PRESSURE	MAX FREE FLOW ( / min.)	NET WEIGHT (kg)
852629	SH-50A1	1 : 1	0.2~0.7MPa (2~7kgf/cm <sup>2</sup> )	28	5.3
852634	SH-50A3	3 : 1		13	5.7
880967	SH-90A3			22	7.1
881014	SH-90A5	5 : 1		17	8.5
851753	SH-110A5			12	11.7
850097	SH-160A10	10 : 1		12	17.0

## PUMP DATA

PUMP SERIES	50		90		110		160
PUMP RATIO	1 : 1	3 : 1	3 : 1	5 : 1	5 : 1	15 : 1	10 : 1
EFFECTIVE AIR MOTOR DIA.	35mm		55mm		77.8mm		113.5mm
EFFECTIVE AIR PISTON AREA	9.6cm <sup>2</sup>		28.3cm <sup>2</sup>		47.5cm <sup>2</sup>		100.5cm <sup>2</sup>
PISTON STROKE	89mm		89mm		60mm		100mm
MAX AIR CONSUMPTION	470N /min.		700N /min.		600N /min.		1,300N /min.

# AIR-OPERATED OIL SUPPLY PUMPS

## Oil Supply Wall Mounted Pump Unit

These wall mounted pump units are available in 3:1 ratio (90 series), 5:1 (110 series) and 10:1 (160 series). They are suited for centralized lubrication system. Each unit comes on mounting panel with air regulator, air hose and delivery hose, and section hose and tube kit enabling quick and safe drum changeovers.



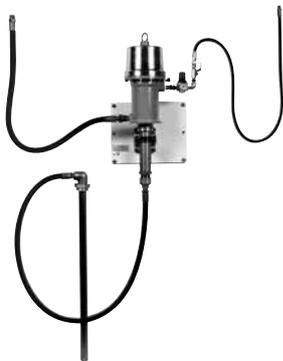
880995  
**KP-90**



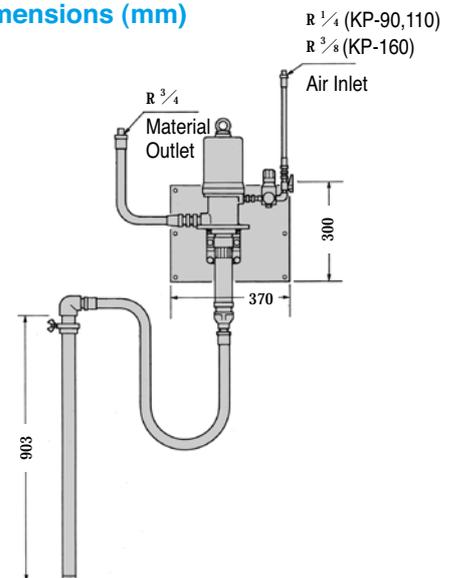
880634  
**KP-110**



880148  
**KP-160**



### Dimensions (mm)



### SPECIFICATIONS

MODEL NO.	MODEL	PUMP RATIO	COMPONENTS	NET WEIGHT (kg)
880995	KP-90	3 : 1	880967 SH-90A3 SIPHON PUMP 851837 MPU-KP WALL MOUNTING PANEL UNIT 850126 SCK-200D SUCTION TUBE ASSEMBLY	14.3
880634	KP-110	5 : 1	851753 SH-110A5 SIPHON PUMP 851837 MPU-KP WALL MOUNTING PANEL UNIT 850126 SCK-200D SUCTION TUBE ASSEMBLY	18.1
880148	KP-160	10 : 1	850097 SH-160A10 SIPHON PUMP 852744 MPU-KP160 WALL MOUNTING PANEL UNIT 850126 SCK-200D SUCTION TUBE ASSEMBLY	22.9

## Mounting Bracket

### 800400 **MTB-SH**

Wall mounting bracket suited to siphon stubby pumps with a suction tube with a maximum diameter of 54mm, (2-1/8"). There are four 11.5mm holes for mounting.



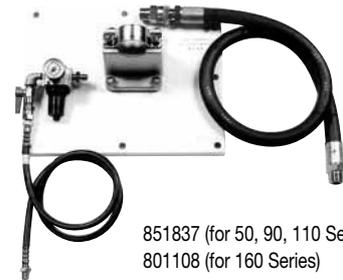
800400

## Wall Mounting Panel Unit

### 851837 **MPU-KP**

### 852744 **MPU-KP160**

This unit is designed to mount siphon stubby pumps onto a wall. Each unit comes with an air regulator, pressure gauge, an air valve, 1.2m and 0.6m connecting hoses and pump bracket. The unit has 8, 12mm holes for mounting to a wall.



851837 (for 50, 90, 110 Series)  
801108 (for 160 Series)

## Suction Tube Assembly

### 85126 **SCK-200D**

Suits siphon stubby pumps. Used to supply lubricant from a 200L (55gallon) drums. the assembly consists of a 1.8m hose 695035, suction tube with a ball foot valve, bung lock adapter and Rc1-1/2" connector.

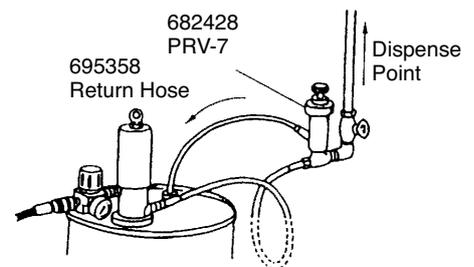


850126

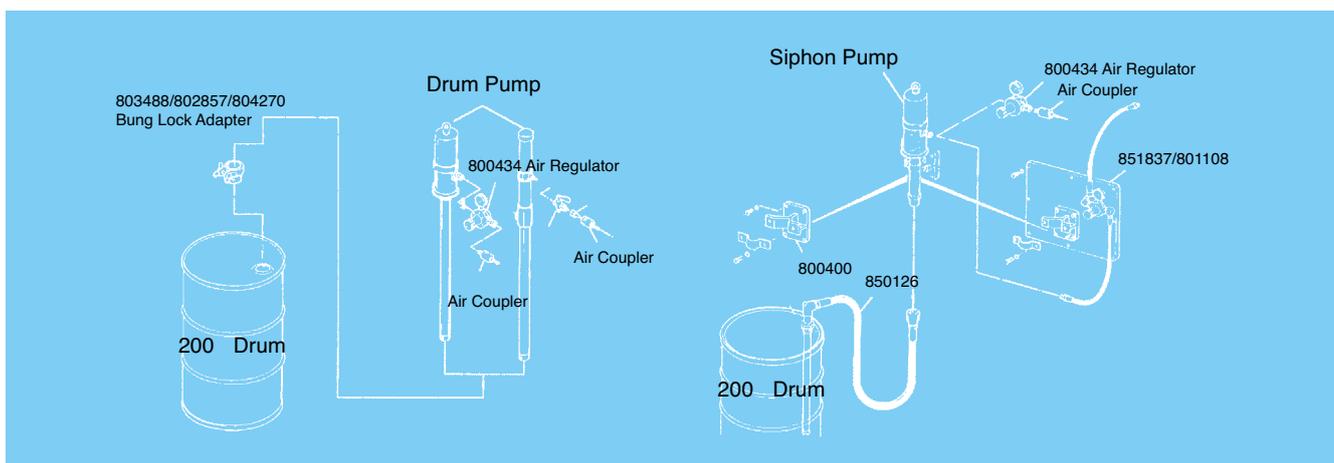
## Pressure Relief Valve

### 682428 **PRV-7**

This unit prevents damage from pressure to pipes, pumps and dispense valves. The pressure relief valve must be installed in the correct position, especially in long distance pipelines and in high temperature environments. A return hose kit 695358 is available.



## METHODS OF INSTALLATION



# HOSE REELS

## Grease Hose Reel SR Series

This series of hose reels have great resistance under high pressure. The pulling direction of hose can be repositioned by either installing on wall, floor or ceiling.



851240  
**SR-2C5**

851242  
**SR-2C10**

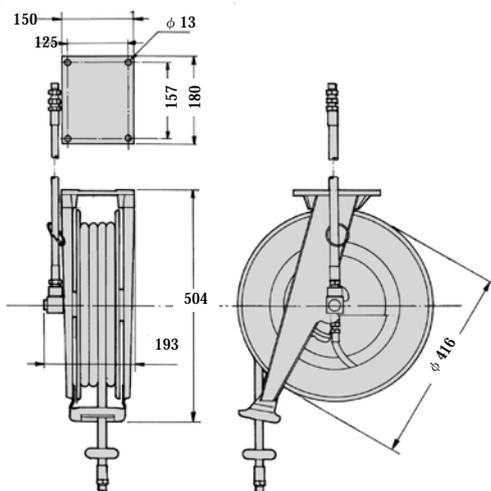
851243  
**SR-3C10**

851245  
**SR-3C15**

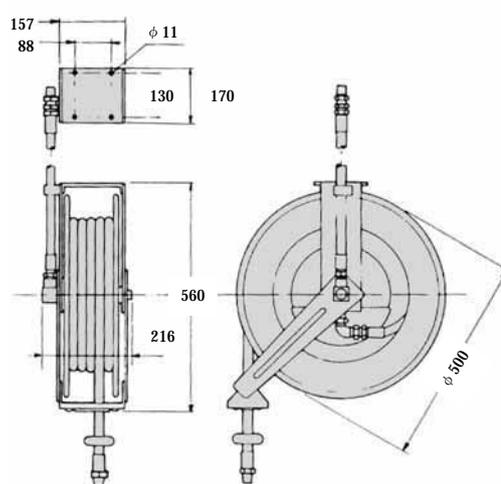


### Dimensions (mm)

SR-2C5, SR-2C10, SR-3C10



SR-3C15



### SPECIFICATIONS

MODEL NO.	MODEL	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
		HOSE LENGTH & I.D.	OUTLET	HOSE LENGTH & I.D.	INLET			
851240	SR-2C5	1/4" × 5 m	R1/4"	1/4" × 1 m	R1/4"	35MPa (350kgf / cm <sup>2</sup> )	12.9	0.080
851242	SR-2C10	1/4" × 10 m					14.6	0.080
851243	SR-3C10	3/8" × 10 m	R3/8"	3/8" × 1 m	R3/8"		16.7	0.066
851245	SR-3C15	3/8" × 15 m					39.2	0.066

# HOSE REELS

## Oil Hose Reel SR Series

These hose reels are designed for engine, gear and transmission oils. Used together with a wide choice of dispense valves, these hoses are very versatile.



851246  
**SR-3G5**

851250  
**SR-3G10**

851247  
**SR-4G5**



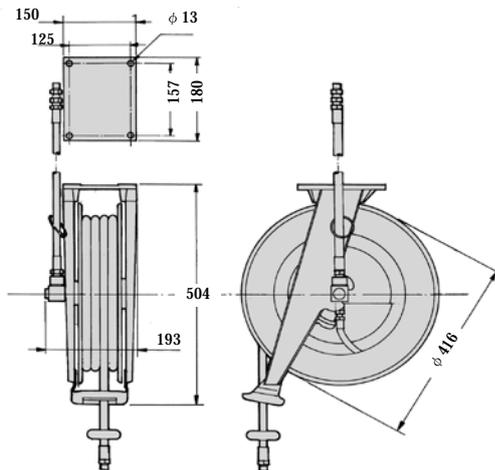
851251  
**SR-4G10**

851252  
**SR-4G15**

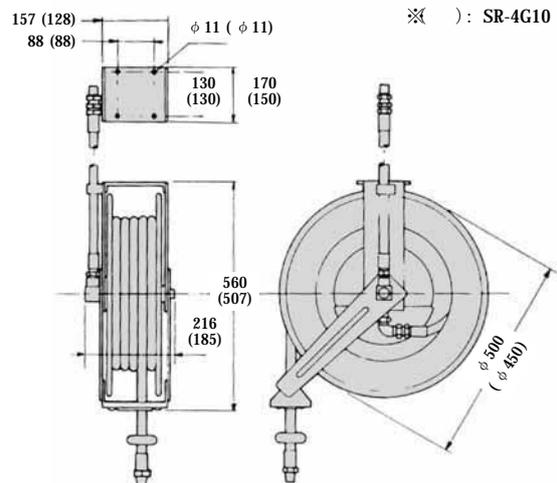


### Dimensions (mm)

SR-3G5, SR-3G10, SR-4G5



SR-4G10, SR-4G15



### SPECIFICATIONS

MODEL NO.	MODEL	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
		HOSE LENGTH & I.D.	OUTLET	HOSE LENGTH & I.D.	INLET			
851246	SR-3G5	3/8" × 5 m	R3/8"	3/8" × 1m	R3/8"	7MPa (70kgf / cm <sup>2</sup> )	12.7	0.066
851250	SR-3G10	3/8" × 10 m					14.2	0.063
851247	SR-4G5	1/2" × 5 m	R1/2"	1/2" × 1m	R1/2"		13.3	0.083
851251	SR-4G10	1/2" × 10 m					25.0	0.070
851252	SR-4G15	1/2" × 15 m					35.5	0.094

## Air Hose Reel SR Series

This series of hose reels are designed for supplying compressed air. Suited for pneumatic tools and inflating tires.



### SPECIFICATIONS



MODEL NO.	MODEL	SERVICE HOSE		WORKING PRESSURE	NETWEIGHT (kgs)	MEASUREMENT (m <sup>3</sup> )
		HOSE LENGTH & I.D.	OUTLET			
851157	SR-2A10	φ 8 × 10 m	Rc1/4"	1.5MPa (15kgf / cm <sup>2</sup> )	13.0	0.077
851158	SR-3A10	φ 11 × 10 m	Rc3/8"		14.1	0.077
851159	SR-4A10	φ 11 × 10 m	Rc1/2"		14.1	0.077
851160	SR-2A15	φ 8 × 15 m	Rc1/4"		13.2	0.077
851161	SR-3A15	φ 11 × 15 m	Rc3/8"		14.7	0.077
851162	SR-4A15	φ 11 × 15 m	Rc1/2"		14.7	0.077

## Water Hose Reel SR Series

This series of hose reels are designed for supplying water.



### SPECIFICATIONS



MODEL NO.	MODEL	SERVICE HOSE		WORKING PRESSURE	NETWEIGHT (kgs)	MEASUREMENT (m <sup>3</sup> )
		HOSE LENGTH & I.D.	OUTLET			
851163	SR-4W10	φ 11.2 × 10 m	Rc1/2"	0.7MPa (7kgf / cm <sup>2</sup> )	14.9	0.061
851164	SR-4W15	φ 11.2 × 15 m				

## H.P. Hot Water Hose Reel SR Series

These hose reels are designed for high pressure hot water.



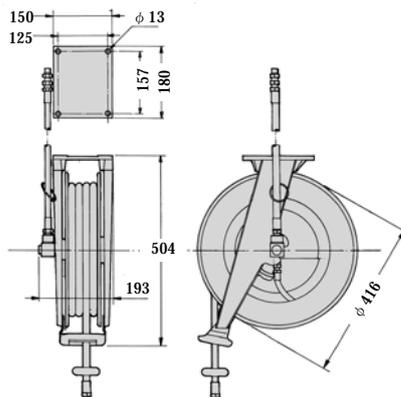
### SPECIFICATIONS



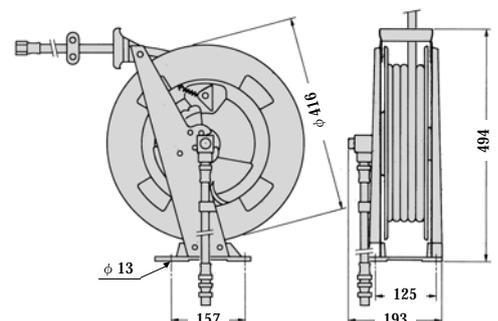
MODEL NO.	MODEL	SERVICE HOSE		WORKING PRESSURE	NETWEIGHT (kgs)	MEASUREMENT (m <sup>3</sup> )
		HOSE LENGTH & I.D.	OUTLET			
851165	SR-2WH10	φ 6.3 × 10 m	Rc1/4"	10.5MPa (105kgf / cm <sup>2</sup> )	15.0	0.075
851166	SR-3WH10	φ 9.5 × 10 m	Rc3/8"		16.5	0.075
851167	SR-2WH15	φ 6.3 × 15 m	Rc1/4"		16.1	0.075
851168	SR-3WH15	φ 9.5 × 15 m	Rc3/8"		18.1	0.075

### Dimensions (mm)

Air Hose Reel Series



Water Hose Reel Series,  
H.P. Hot Water Hose Reel Sires



# HOSE REELS

## Cabinet Hose Reel NHR Series

These versatile hose reels are designed for grease oil air or water.



N801483  
**NHR-2C8**

N801883  
**NHR-2C15**

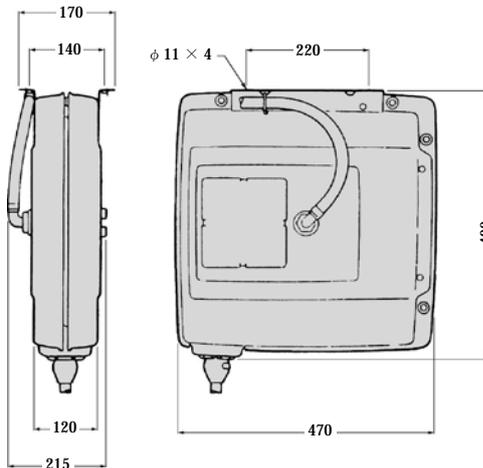


N800683  
**NHR-3WA10**

N800883  
**NHR-3WA15**

 N801283  
**NHR-4G8**

### Dimensions (mm)



### SPECIFICATIONS

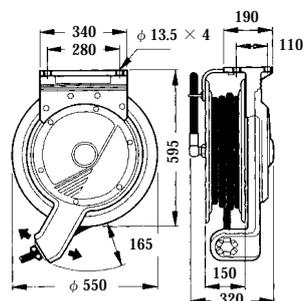
MODEL NO.	MODEL	MEDIA	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)
			LENGTH & I.D.	OUTLET	LENGTH & I.D.	OUTLET		
N800683	NHR-3WA10	AIR / WATER	3/8" × 10 m	R3/8"	1/2" × 1m	R1/2"	1.5MPa	12.7
N800883	NHR-3WA15		3/8" × 15 m			R1/2"	7.5MPa	14.2
N801203	NHR-4G8	OIL	1/2" × 8 m	R1/2"	1/4" × 1m	G1/4"	35MPa	13.3
N801483	NHR-2C8	GREASE	1/4" × 8 m	R1/4"	1/4" × 1m	G1/4"	35MPa	25.0
N801883	NHR-2C115		1/4" × 15 m					35.5

## High Capacity Hose Reel NSHR Series

These high capacity hose reels are designed for large diameter or extra long hoses.



Dimensions (mm)



### SPECIFICATIONS

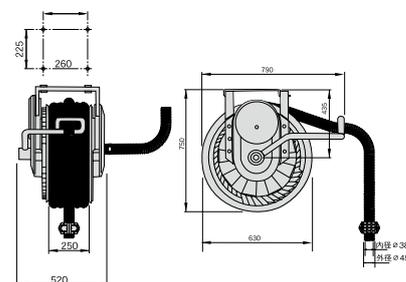
MODEL NO.	MODEL	MEDIA	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)
			LENGTH & I.D.	OUTLET	LENGTH & I.D.	OUTLET		
N810284	NSHR-4WA20	AIR / WATER	1/2" × 20 m	Rc1/2"	1/2" × 1m	Rc1/2"	1.5MPa	27.6
N810484	NSHR-6WA15	AIR / WATER	3/4" × 15 m		3/4" × 1m		1.2MPa	28.2
N810684	NSHR-25WA10	AIR / WATER	1" × 10 m		1" × 1m		1.2MPa	30.1
N811884	NSHR-4G20	OIL	1/2" × 20 m	Rc1/2"	1/2" × 1m	Rc1/2"	5.0MPa	31.4
N812284	NSHR-6G15	OIL	3/4" × 15 m	G3/4"	3/4" × 1 m	G3/4"	5.0MPa	33.4
N825284	NSHR-25G10	OIL	1" × 10 m	G1"	1" × 1 m	G1"	5.0MPa	27.8
N811684	NSHR-3WH25	HOT WATER	3/8" × 25 m	Rc3/8"	3/8" × 1m	G3/8"	18MPa	35.8

## Vacuum Hose Reel NVR Series

Suitable for vacuum extraction systems. Extraction of smoke such as welding fumes, vacuum cleaning and the extraction of dust created by sanding, grinding, polishing and sawing etc...



Dimensions (mm)



### SPECIFICATIONS

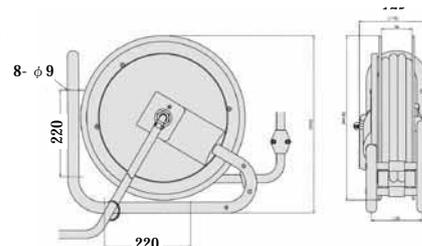
MODEL NO.	MODEL	MEDIA	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)
			LENGTH & I.D.	OUTLET	LENGTH & I.D.	OUTLET		
N815084	NVR-40AV10	DUST / FUME	38mm × 10 m	1-1/2"	38mm × 1 m	1-1/2"	81KPa(607mmHg)	26.0
N814884	NVR-50AV7.5	DUST / FUME	51mm × 7.5 m	2"	51mm × 1 m	2"	60KPa(845mmHg)	28.0

## Stainless Steel Hose Reel NSR Series

With its stainless steel construction this product is transferring corrosive liquids such as brake fluid, radiator fluid and detergents.



Dimensions (mm)



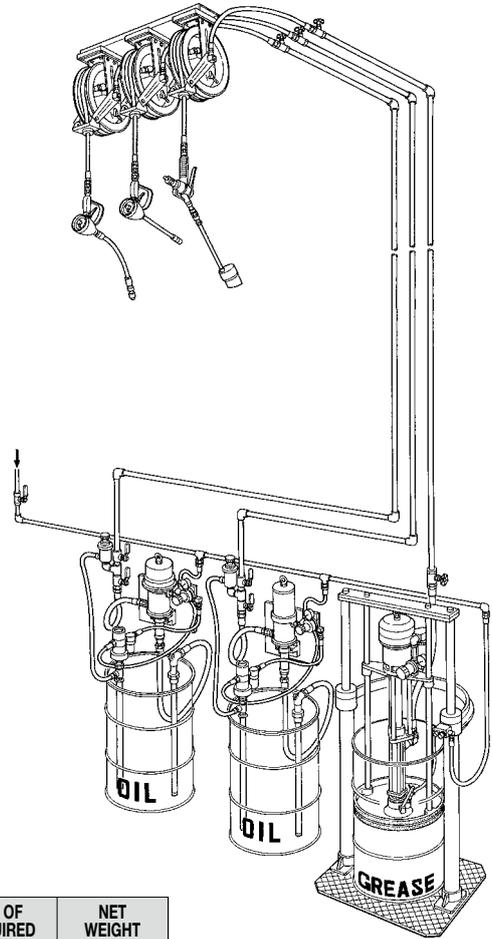
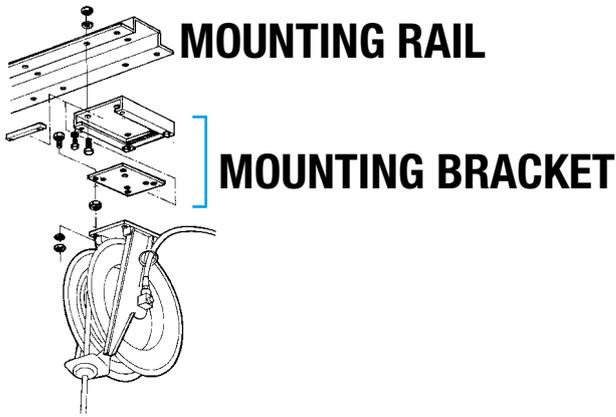
### SPECIFICATIONS

MODEL NO.	MODEL	MEDIA	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)
			LENGTH & I.D.	OUTLET	LENGTH & I.D.	OUTLET		
N803293	NSR-4W10S	COLD/HOT WATER (165°C)	1/2" × 10 m	R1/2"	1/2" × 1 m	R1/2"	0.6MPa(1.5MPa/Max)	26.0
N803493	NSR-3HW15S	COLD/HOT WATER (180°C)	3/8" × 15 m	G3/8"	3/8" × 1 m	R3/8"	18MPa	26.0

# HOSE REELS

## Mounting Channel

By simply using the mounting bracket and rail it is possible to mount two or more hose reels in the same position.



### Mounting Bracket

MODEL NO.	AVAILABLE HOSE REEL TYPE.
801951	SR SERIES
803749	NHR SERIES
803750	NSHR, NVR SERIES
803751	NSR SERIES
803783	NSR SERIES FOR FLOOR MOUNT

### Mounting Rail

NO. OF REEL (S)	MODEL NO.	MODEL	AVAILABLE HOSE REEL TYPE.	LENGTH (mm)	NO. OF REQUIRED ANCHOR BOLTS	NET WEIGHT (kg)
1	704439	R-1	SR, NHR, NSR SERIES	140	2	1.5
2	704440	R-2	SR, NHR, NSR SERIES	520	4	5.3
	713509	MOUNTING RAIL	NSHR, NVR SERIES	654		
3	704441	R-3	SR, NHR, NSR SERIES	900	6	9.2
	713510	MOUNTING RAIL	NSHR, NVR SERIES	1,138		
4	704442	R-4	SR, NHR, NSR SERIES	1,280	8	13.0

## Wall Mounting Swing Brackets

For increased flexibility it is possible to mount the hose reels onto a wall using a mounted swing bracket.

N372407

**FOR NSR, NHR SERIES**



N372408

**FOR NSR SERIES  
STAINLESS STEEL**



N321991

**FOR NSHR, NVR SERIES**



**New**

# COMPACT REEL Series

Yamada Compact Reel Series are designed for various production areas such as with car dealers, car repair shops and service stations. Mounted on the wall or ceiling at the primary power source, simply pull out the required amount of hose or cable and use as required. Once finished, the reels spring system will automatically wind up the hose or cable in a smooth balanced action making it very safe and convenient.

## FEATURE

### A

Modern dark metallic grey color designed to match any location.

### B

The guide is made from high-grade engineering plastic. The hose and cord are made from new durable materials.

### C

The cables and hoses are oil repellent flexible and heavy duty.

### D

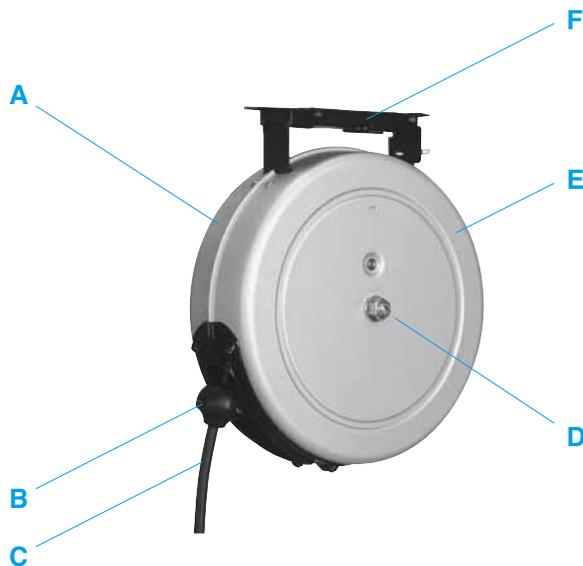
The stainless steel return spring is a special S type design, giving superior balance, torque, and evenness during the whole movement.

### E

The Body has a baked and double layered coating giving increased strength and duragbility.

### F

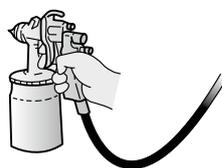
The Mounting Bracket is simple and safe to use.



## APPLICATIONS



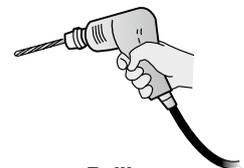
Disc sander



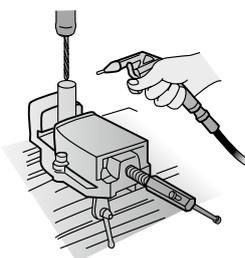
Air spray



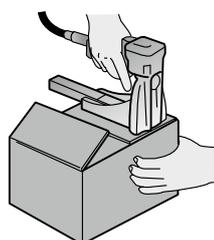
Remote controller



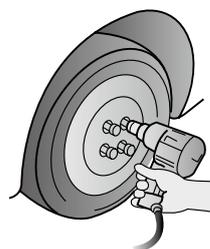
Drill



Air gun



Stapler



Impact wrench



Cutter

New

# COMPACT REEL Series

## CRD Series Digital Controller

### Controlled safely by an internal microcomputer.

If an accident happens causing a short circuit the micro computer will perceive the short and will suspend operation by using a built in failsafe mechanism. Data is sent at a rate of 1200Bits per second to the microcomputer. If an error were to occur it will stop operating instantly.

### LED Digital Controller.

There are three types of controllers available each with a different set of command buttons.



853875  
**CRD-106**  
Move Up/Down,  
Left/Right and  
Forward/Back Etc.  
a total of 3 systems  
can be operated  
using 6 circuits  
equal to 8-9 lines.



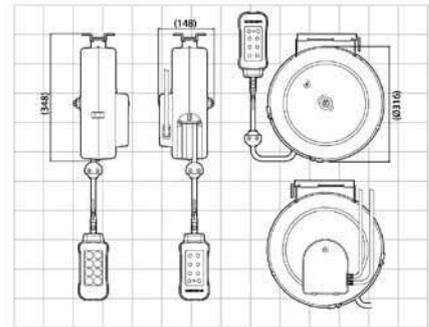
853874  
**CRD-104**  
Move Up/Down and  
Left/Right etc.  
a total of 2 systems  
can be operated  
using 4 circuits  
equal to 6-lines.



853873  
**CRD-102**  
Move Up/Down,  
or Left/Right etc.  
1 system can be  
operated,  
equal to 4-lines.



- The digital controller function key turns the buzzer on and off.
- To ensure workers safety, when using any of the function keys, operation is confirmed with lights and with a buzzer.
- In an emergency, use the emergency switch to stop all functions.
- The lamps on the digital controller are long life high intensity LED lights saving on power consumption and maintenance. The back of the controller has a highly focused LED light array designed to check paint and car body details.
- The digital controller is rain and dust resistant up to level IP64. It is splash proof and suitable for areas such as car washes or outdoor locations.
- The controller is shock and electromagnetic pulse resistant.



The digital remote controller is connected to equipment to control important functions. Former generation remote controllers were connected using analog based technology sometimes causing safety problems. To improve accuracy this newly developed remote controller uses a microcomputer and digital transmissions and is very safe. Its development was based on general factory environmental conditions and many measures were taken out to fully protect the controller including against EMC.

## SPECIFICATIONS

	TYPE	PRODUCT CODE	RATING		SERVICE CORD			INLET CORD	WEIGHT (kg)
			VOLTAGE	CURRENT	CROSS SECTION AREA	NUMBER OF CORES	LENGTH		
Digital control	CDR-102	853873	AC/DC24V	0.5A	0.75	4	10 m	0.5mm <sup>2</sup> × 1m	6
Digital control	CDR-104	853874	AC/DC24V	0.5A	0.75	4	10 m	0.5mm <sup>2</sup> × 1m	6
Digital control	CDR-106	853875	AC/DC24V	0.5A	0.75	4	10 m	0.5mm <sup>2</sup> × 1m	6

\*EMC ORDER: Corresponding to European standards for the regulation for electromagnetic pulse. EN61000-6-2 EN1000-6-3 EN61000-3-2 EN61000-3-3

**New**

# COMPACT REEL Series

## CRE Series Power Cable Reel

## CRS Series Remote Controller Reel



853815  
**CRE-101**



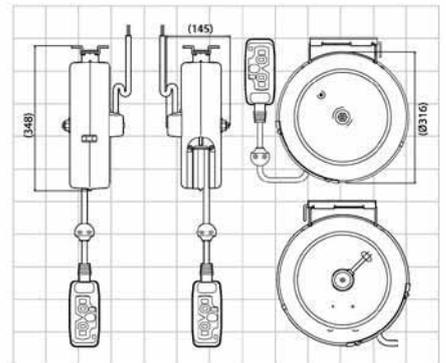
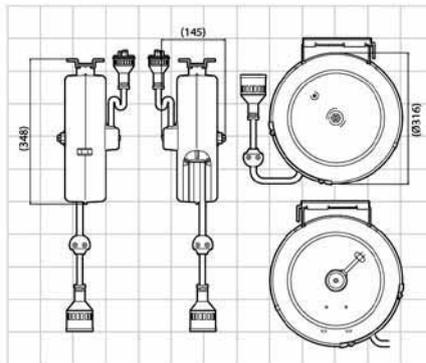
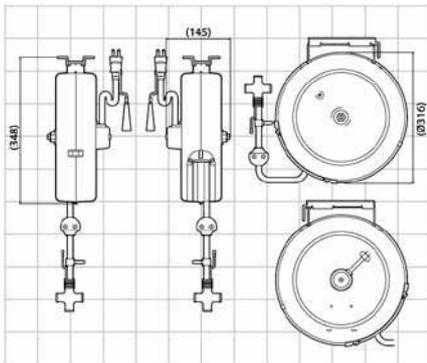
853818  
**CRE-102**



853816  
**CRS-10A**



853817  
**CRS-10D**



The Yamada CR Series uses newly designed swivel mechanism. Testing has shown that these new CR reels have an operating life of up to 10 times longer than previous Yamada models.

The new CR Series VCT cords when compared to the previously used VCT-F cords, are easier to use, are more pliable, stronger and have higher oil resilience. The CR Series cords are manufactured for, and used exclusively by Yamada.

### SPECIFICATIONS

	TYPE	PRODUCT CODE	RATING		SERVICE CORD			INLET CORD	WEIGHT (kg)
			VOLTAGE	CURRENT	CROSS SECTION AREA	NUMBER OF CORES	LENGTH		
100V	CRE-101	853815	AC125V	6A	1.25	3	10 m	1.25mm <sup>2</sup> × 1m	5.4
200V	CRE-102	853818	AC250V	6A	2.0	4	10 m	2.00mm <sup>2</sup> × 1m	6.3
Remote control	CRS-10A	853816	AC250V	6A	2.0	4	10 m	2.00mm <sup>2</sup> × 1m	6.2
Remote control	CRS-10D	853817	AC/DC24V	0.5A	0.75	4	10 m	0.75mm <sup>2</sup> × 1m	5.2

# New

# COMPACT REEL Series

## Air Hose Reel



853811  
**CRA-102**

853812  
**CRA-102S**

853813  
**CRA-103**

853814  
**CRA-103S**



## Water Hose Reel



854031  
**CRW-102**

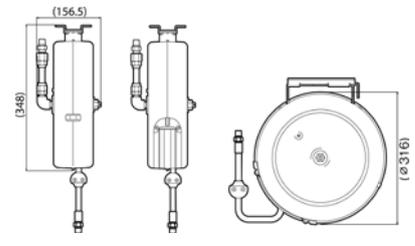
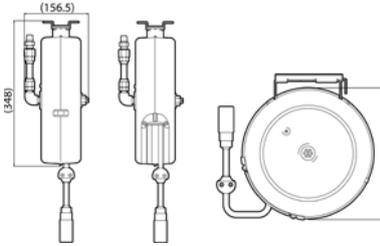
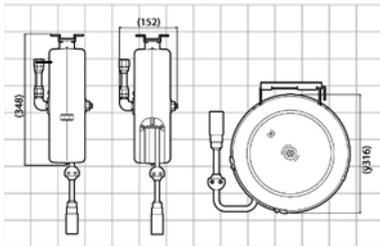
854032  
**CRW-103**



## Oil Hose Reel



854030  
**CRG-062**



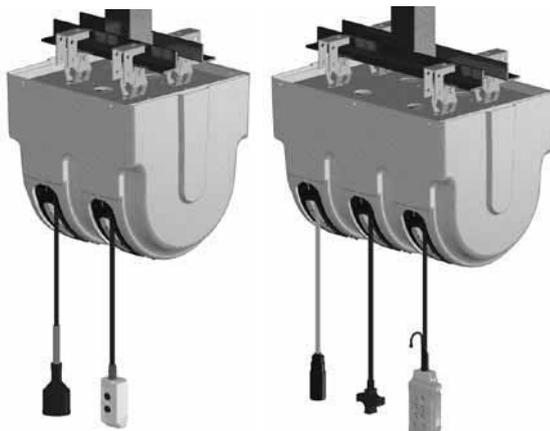
Because smoothness is very important when drawing and retracting the air hose, the new CR Series reels have a S spring Producing constant constant torque enabling a smooth and balanced movement. The internal mechanism is designed to stop messy rewinds and to stop the whip action often associated with other kinds of hose reels.

The hose is made from a new type of material that is more durable and has increased flex endurance.

### SPECIFICATIONS

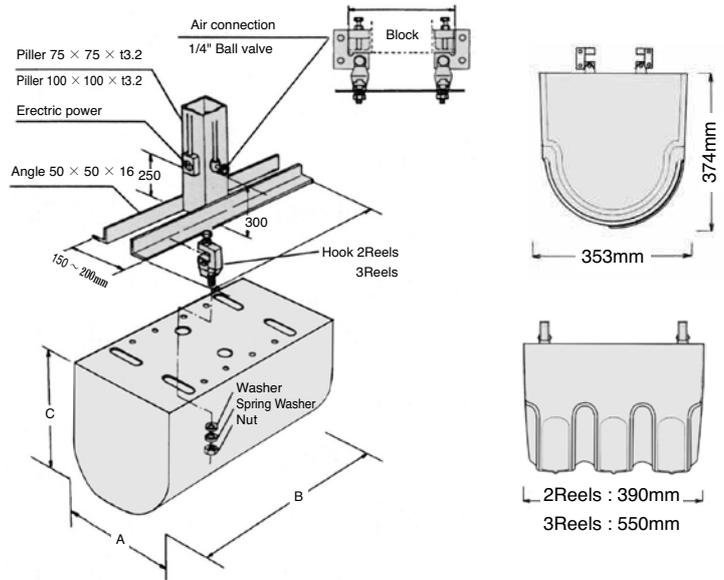
	TYPE	PRODUCT CODE	MAX AIR PRESSURE (MPa)	SERVICE HOSE			INLET CORD	WEIGHT (kg)
				INTERNAL DIA.	LENGTH	CONNECTOR		
AIR	CRA-102	853811	1.5	φ 6.5	10 m	R1/4	φ 6.5 × 1m	4.5
AIR (Fire resistant hose)	CRA-102S	853812	1.5	φ 6.3	10 m	R1/4	φ 6.3 × 1m	4.5
AIR	CRA-103	853813	1.5	φ 6.5	10 m	R3/8	φ 6.5 × 1m	4.7
AIR (Fire resistant hose)	CRA-103S	853814	1.5	φ 8.3	10 m	R3/8	φ 8.3 × 1m	4.7
WATER	CRW-102	854031	0.7	φ 6.5	10 m	Rc1/4	φ 6.5 × 1m	4.5
WATER	CRW-103	854032	0.7	φ 8.5	10 m	Rc3/8	φ 8.5 × 1m	4.7
OIL	CRG-062	854030	2.5	φ 6.3	6 m	Rc1/4	φ 6.3 × 1m	5.7

## Multi Reel Box



804467  
**CRBOX2**

804468  
**CRBOX3**

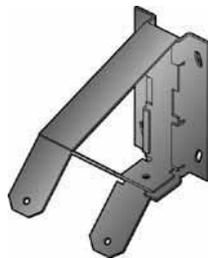


### SPECIFICATIONS

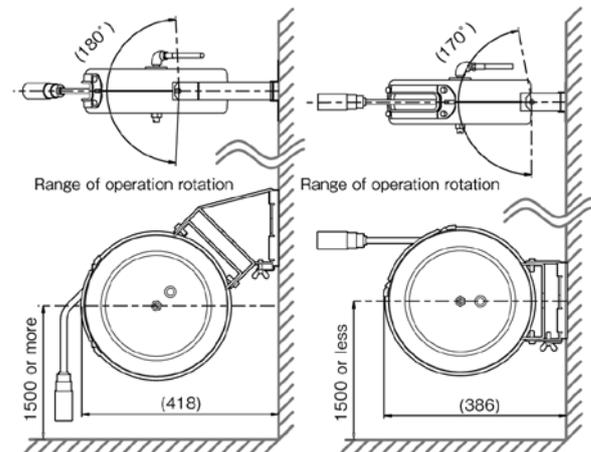
MODEL	PRODUCT CODE	DIMENSIONS			NET WEIGHT (kg)
		H	W	D	
CRBOX2	804467	374mm	390mm	353mm	5.5
CRBOX3	804468	374mm	550mm	353mm	6.5

## Mounting Swing Brackets

804474 **CR-SWB-L**



804475 **CR-SWB-S**



## Pendant Light

683416 **SL-13TR**



### SPECIFICATIONS

MODEL	PRODUCT CODE	RATING	WATTAGE	NET WEIGHT
SL-13TR	683416	100V	13W	0.35kg

# GREASE DISPENSE VALVES & NOZZLES

## High Pressure Grease Dispense Valve

This unit uses a simple lever action to dispense grease. The valve body is made from die cast aluminum. A hose swivel joint prevents any twisting of the hose and gives free movement when dispensing grease. A large range of nozzles and fittings are available.

### DISPENSE VALVE WITH SWIVEL JOINT

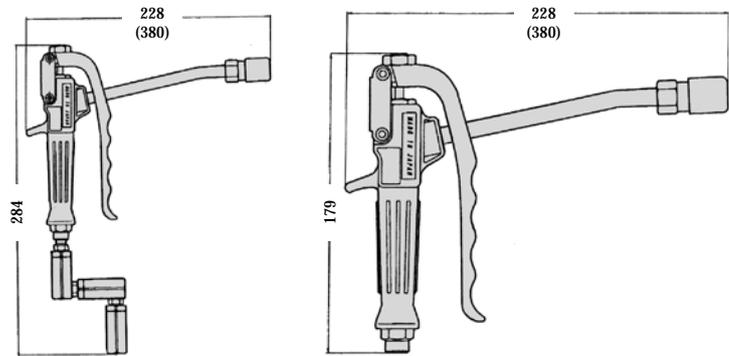
851985  
**HPG-G**  
852164  
**HPG-G13**



#### SPECIFICATIONS

MODEL NO.	INLET CONNECTION	DISPENSE VALVE	NOZZLE	SWIVEL JOINT
851985	G1/4"	852165	800547 CNP-2	802910
852164		852410	800702 CNP-13	

#### Dimensions (mm)



### DISPENSE VALVE



#### SPECIFICATIONS

MODEL NO.	INLET CONNECTION	NOZZLE
852165	G1/8"	800547 CNP-2
852410		800702 CNP-13

### SWIVEL JOINT



#### SPECIFICATIONS

MODEL NO.	INLET CONNECTION	OUTLET CONNECTION
802910	G1/4"	G1/8"

800531 **CNP-2**



800702 **CNP-13**



#### SPECIFICATIONS

MODEL NO.	MODEL	NOZZLE DIA	LENGTH	CONNECTION
800531	CNP-2	14mm	175mm	R1/8"
800702	CNP-13	18mm	325mm	R1/8"

# OIL DISPENSE VALVES & NOZZLES

## Lube Batch Meter Mechanical Type

There are three models with different preset volumes, 16, 30 and 60 liters in this series. By turning the preset dial anticlockwise the meter will count down to zero and then stop automatically.

801429

**LBM-60**

802238

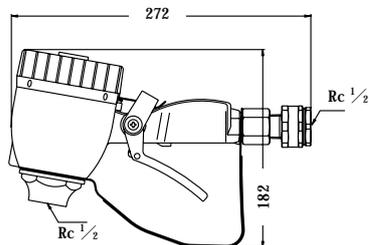
**LBM-30**

802237

**LBM-16**



Dimensions (mm)



### SPECIFICATIONS

MODEL NO.	801429	802238	802237
MODEL	LBM-60	LBM-30	LBM-16
PRESET FLOW RANGE	1~60	1~30	1~16
MIN GRADUATIONS	1	0.5	0.5
MAX FLOW	9 /min		
MAX WORKING PRESSURE	7MPa		
MAX WORKING TEMPERATURE	45°C		
METERING ACCURACY	±3%		
INLET CONNECTION	Rc1/2" WITH FILTER		
NET WEIGHT	2.2 kg		

## Lube Batch Meter Digital Type

The battery-powered microprocessor activates the valve operation automatically. The preset metering range is highly accurate from 0.1 up to 999.0 liters. The large sized panel display, has a five digit display and shows totals and flow rates etc.

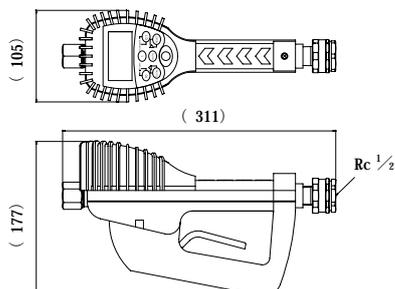
Usable liquid: Motor oil (SAE 5W~50), Gear oil (SAE75W~140), ATF fluid, LLC and Machine oil

804536

**LBM-P**



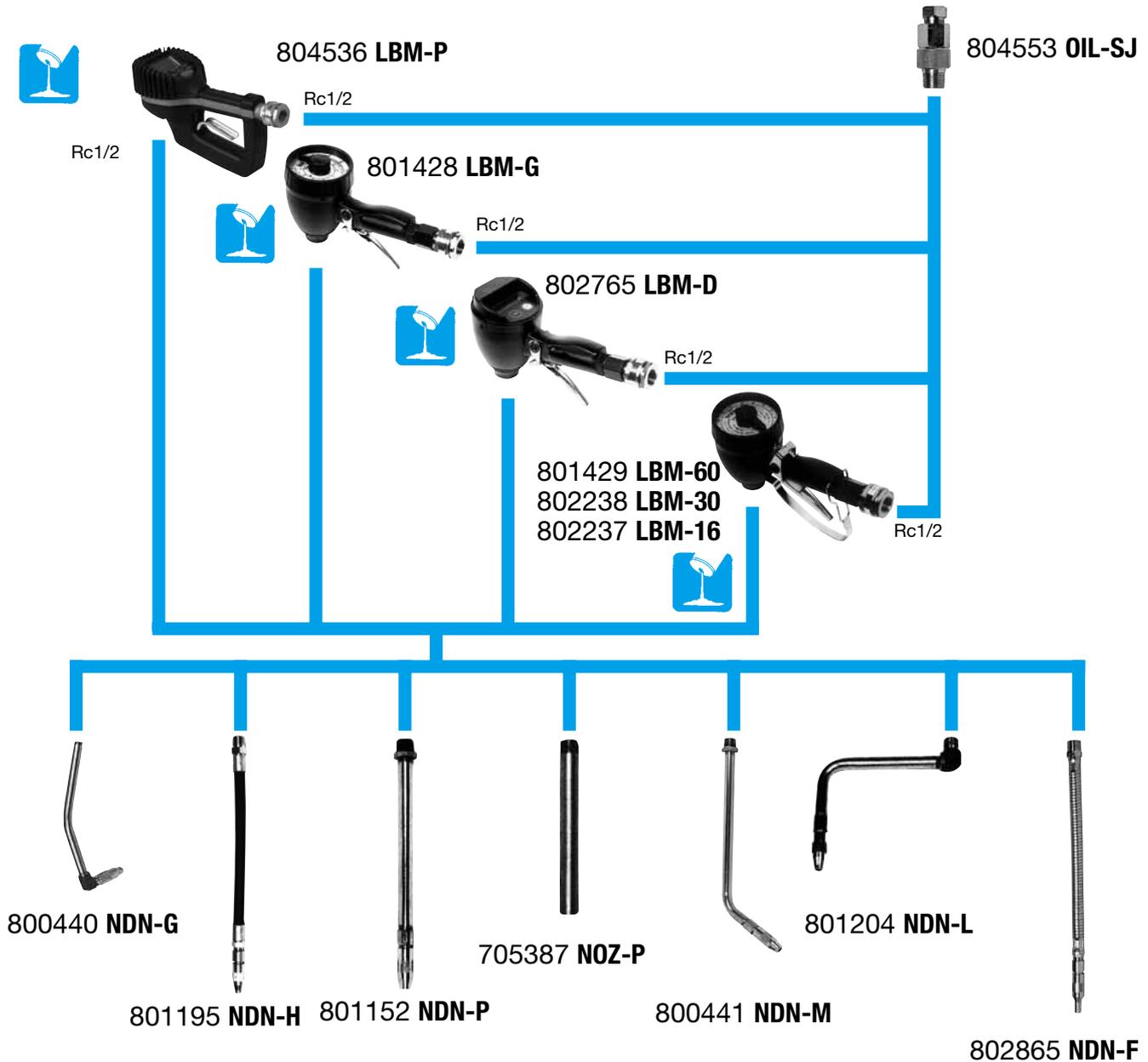
Dimensions (mm)



### SPECIFICATIONS

MODEL NO.	804536
MODEL	LBM-P
PRESETTABLE AMOUNT	0.1~999.0
MIN SCALE VALUE	0.01
MAX FLOW	30 /min
MAX WORKING PRESSURE	6.5MPa
WORKING TEMP RANGE	-5~50°C
ACCURACY	±5%
AVAILABLE VISCOSITY RANGE	5~1,800 cp
BATTERY TYPE	AA battery (4 pcs)
DISPLAY	5 digit
INLET/OUTLET CONNECTION	Rc1/2"
NET WEIGHT	

# DISPENSE VALVES & NOZZLES



**804536 LBM-P LUBE BATCH METER DIGITAL TYPE**

Preset batch meter digital type.

**801428 LBM-G GRIP METER MECHANICAL TYPE**

Oil dispense valve with totalizer, max pressure 7MPa, inlet Rc1/2" Inner circle pointer records every revolution of the pointer (knob). Pointer (knob) indicates 1 liter per revolution. Inner circle pointer indicates 10 liters per revolution.

**802765 LBM-D GRIP METER DIGITAL TYPE**

The electronic register module contains a microprocessor board, powered by a lithium battery with a life expectancy, depending on use of 2-5 years. It has a 5-digit LCD, accurate to the third decimal place. The meter can display from 0.01 to 999.9 liter. This unit will accurately display the dispensed volume.

**801429 LBM-60 LUBE BATCH METER MECHANICAL TYPE**

**802238 LBM-30 LUBE BATCH METER MECHANICAL TYPE**

**802237 LBM-16 LUBE BATCH METER MECHANICAL TYPE**

Preset batch meter mechanical type.

**804553 OIL-SJ SWIVEL JOINT**

Inlet: Rc3/8 and Rc1/2 Outlet: R1/2

**800440 NDN-G NON-DRIP NOZZLE**

Non-drip nozzle with right-angled head.

**801195 NDN-N NON-DRIP NOZZLE**

Non-drip nozzle with flexible hose.

**801152 NDN-P NON-DRIP NOZZLE**

Non-drip nozzle with straight pipe.

**705387 NOZ-P STRAIGHT NOZZLE**

Straight pipe nozzle.

**800441 NDN-M NON-DRIP NOZZLE**

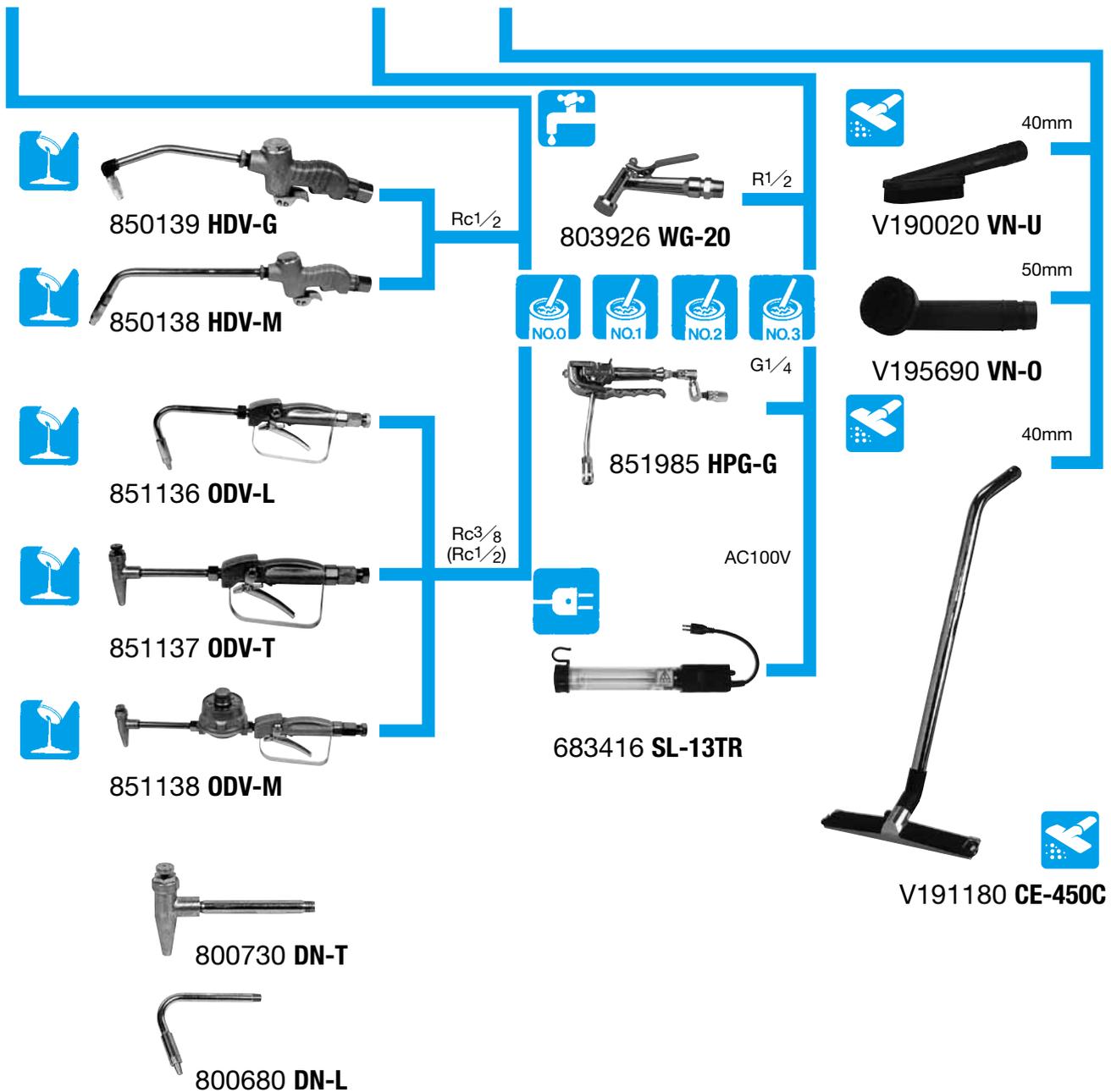
Non-drip nozzle with 60° angled head.

**801204 NDN-L NON-DRIP NOZZLE**

Non-drip nozzle with L-shape pipe.

**802865 NDN-F NON-DRIP NOZZLE**

Non-drip nozzle with flexible pipe.



- 850139 HDV-G HIGH-VOLUME OIL DISPENSE VALVE**  
High-volume dispense valve for gear oil.
- 850138 HDV-M HIGH-VOLUME OIL DISPENSE VALVE**  
High-volume dispense valve for motor oil.
- 851136 ODV-L OIL DISPENSE VALVE**  
Compact size oil dispense valve with non-drip nozzle.
- 851137 ODV-T OIL DISPENSE VALVE**  
Compact size oil dispense valve with needle valve.
- 851138 ODV-M OIL DISPENSE VALVE W/ METER**  
Compact size oil dispense valve with flow meter.
- 800730 DN-T OIL DISPENSE NOZZLE**  
Oil dispense nozzle with needle valve.
- 800680 DN-L OIL DISPENSE NOZZLE**  
Oil dispense nozzle with non-drip nozzle.

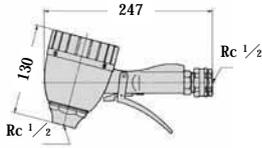
- 803926 WG-20 WATER DISPENSE VALVE**  
Hose connector is included:
- 851985 HPG-G GREASE DISPENSE VALVE**  
High-pressure grease dispense nozzle.
- 683416 SL-13TR PENDANT LIGHT**  
AC100V-13W fluorescent pendant light.
- V190020 VN-U VACUUM NOZZLE W/ BRUSH**  
U-shape vacuum nozzle with brush.
- V196590 VN-O VACUUM NOZZLE W/ BRUSH**  
O-shape vacuum nozzle with brush.
- V191180 CE-450C VACUUM NOZZLE W/ BRUSH**  
T-shape vacuum nozzle with brush.

# OIL DISPENSE VALVES & NOZZLES

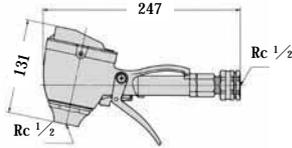
## Dispense Valves

Dimensions (mm)

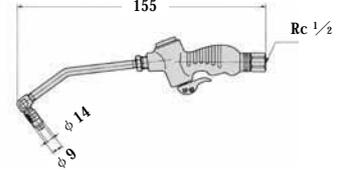
801428 LBM-G



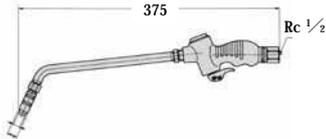
802765 LBM-D



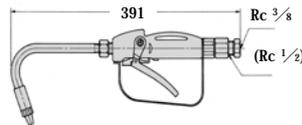
850139 HDV-G



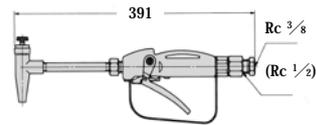
850138 HDV-M



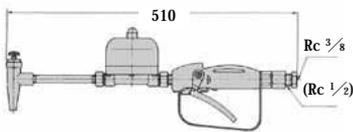
851136 ODV-L



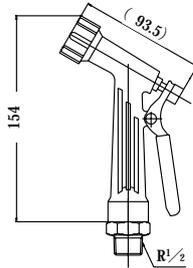
851137 ODV-T



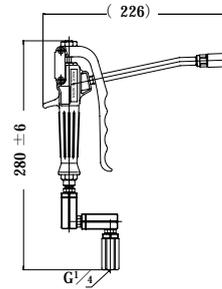
851138 ODV-M



803926 WG-20



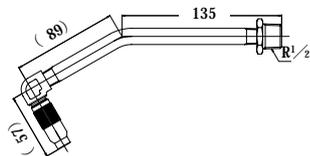
851985 HPG-G



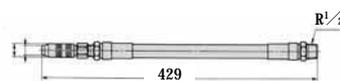
## Nozzles

Dimensions (mm)

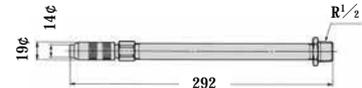
800440 NDN-G



801195 NDN-H



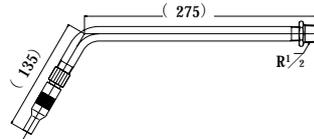
801152 NDN-P



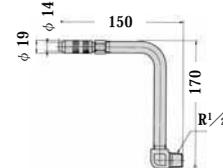
705387 NOZ-P



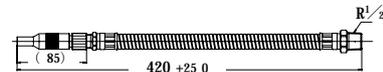
800441 NDN-M



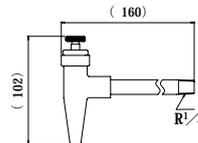
801204 NDN-L



802865 NDN-F



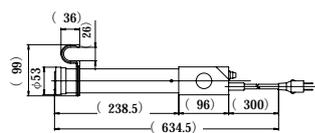
800730 DN-T



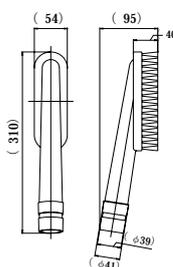
800680 DN-L



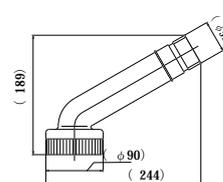
683416 SL-13TR



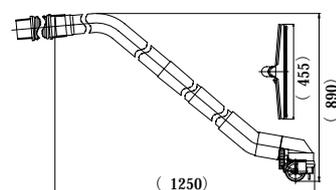
V190020 VN-U



V196590 VN-O



V191180 CE-450C



# MOBILE LUBRICATION SYSTEMS

## Lubrication Dolly Set

An air operated pump, oil gun and a supply hose are mounted onto a heavy-duty dolly. Used when dispensing large volumes of oil. Choose from several different combinations of hose reels, pump units and dispense valves.

### LDS-110



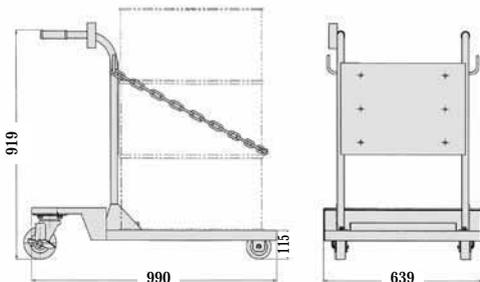
### LDS-110K



### LDS-110R



#### Dimensions (mm)



※ Container is not included

#### COMPONENTS

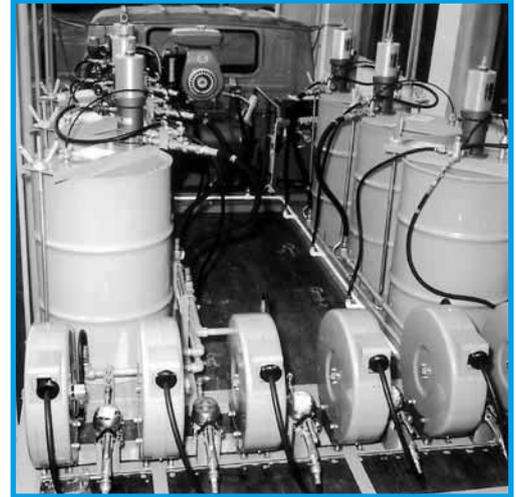
TYPE	LDS-110	LDS-110K	LDS-110R
PUMP	851754 DR-110A5	880634 KP-110	851754 DR-110A5
AIR REGULATOR	802553	INCLUDED KP-110	802553
CONTROL VALVE	801428 LBM-G GRIP METER		
NOZZLE	801152 NDN-P NON-DRIP NOZZLE		
SWIVEL JOINT	804553 OIL-SJ 1/2" × 1/2"		
DELIVERY HOSE	695156 110H-5M 1/2" × 5m	695156 110H-5M 1/2" × 5m	695092 110H-2M 1/2" × 5m
HOSE REEL	—	—	851251 SR-4G10
DOLLY	802424 LDS-CT DOLLY		

# MOBILE LUBRICATION SYSTEMS

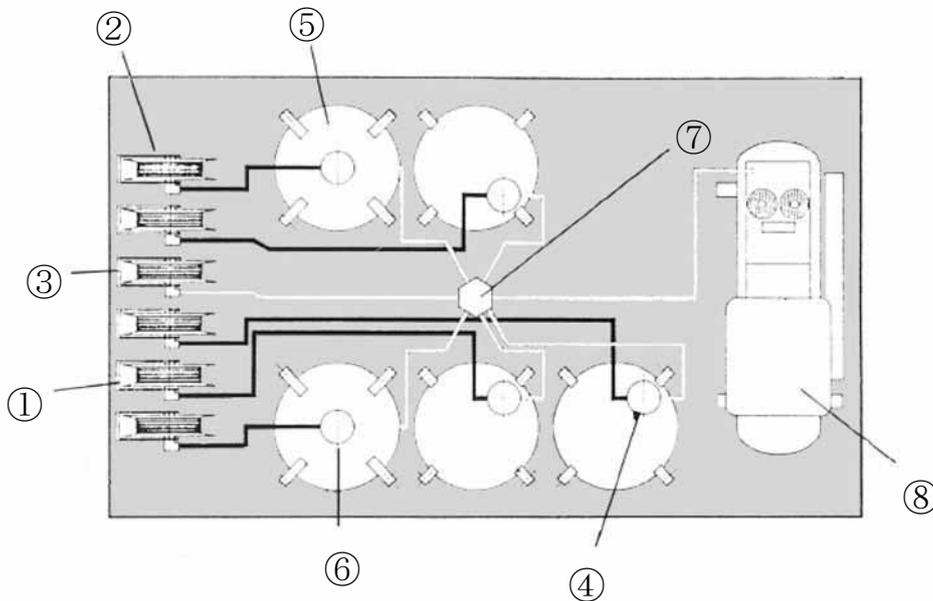
## Lubrication Truck

The lubrication truck enables all your grease, oil, air or similar services to be carried out at any location. Used mainly in construction, mining and aviation etc, this mobile service station is playing an important role servicing hard working vehicles.

## LUBRICATION TRUCK



## TYPICAL INSTALLATION



## COMPONENTS

①	851252 SR-4G15 OIL HOSE REEL	⑤	851783 DR-110A50 GREASE PUMP
②	851245 SR-3C15 GREASE HOSE REEL	⑥	851826 DR-110A15 OIL PUMP
③	851162 SR-4A15 AIR HOSE REEL	⑦	AIR DISTRIBUTOR
④	851754 DR-110A5 OIL PUMP	⑧	AIR COMPRESSOR

# PNEUMATIC LEVEL ALARMS & LEVEL CONTROLLER

## Level Alarms

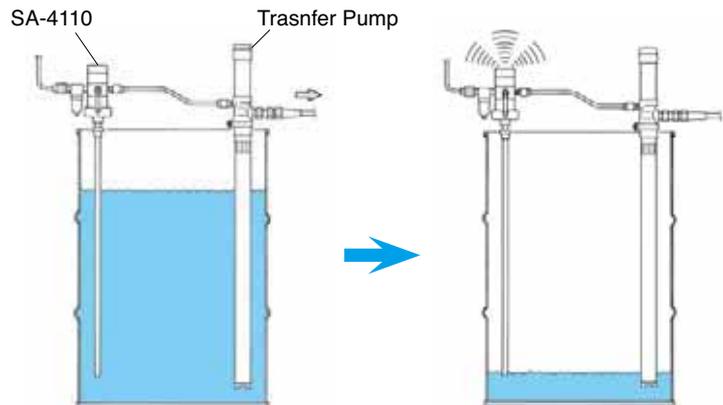
The level alarm is placed in the vent of a drum. It sounds a pneumatic buzzer and discontinues the air supply to the pump automatically if the liquid is lower or higher than the preset level in the tank. The system prevents the pump from running dry and prevents air contamination into a pipeline. Through different systems and setups various kinds of fluid control are possible.

### Low-Level Alarm

When the liquid in a drum or tank reaches the preset low level, it starts the alarm and stops the pump by stopping the air supply. This prevents air contamination of the airline. The level is preset before operation.



480007  
**SA-4100**



### SPECIFICATIONS

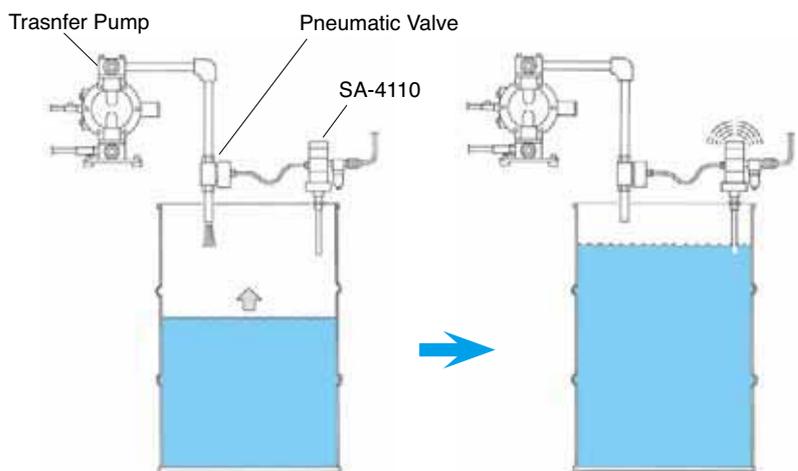
MODEL NO.	MODEL	SUPPLY AIR PRESSURE	OUTPUT AIR FLOW	RECOMMENDED VISCOSITY	ACCESSORY	NET WEIGHT (kg)
480007	SA-4100	0.2~0.7MPa (2~7kgf/cm <sup>2</sup> )	MAX 1000N /min (at 0.5MPa)	LESS THAN 2,500cps		2.2

### High-Level Alarm

When the level of the liquid in the drum or tank reaches the preset high level, the alarm starts and the supply of air to the pump is stopped. This prevents an over flow of the liquid. The level is preset when installing the system.



480008  
**SA-4110**



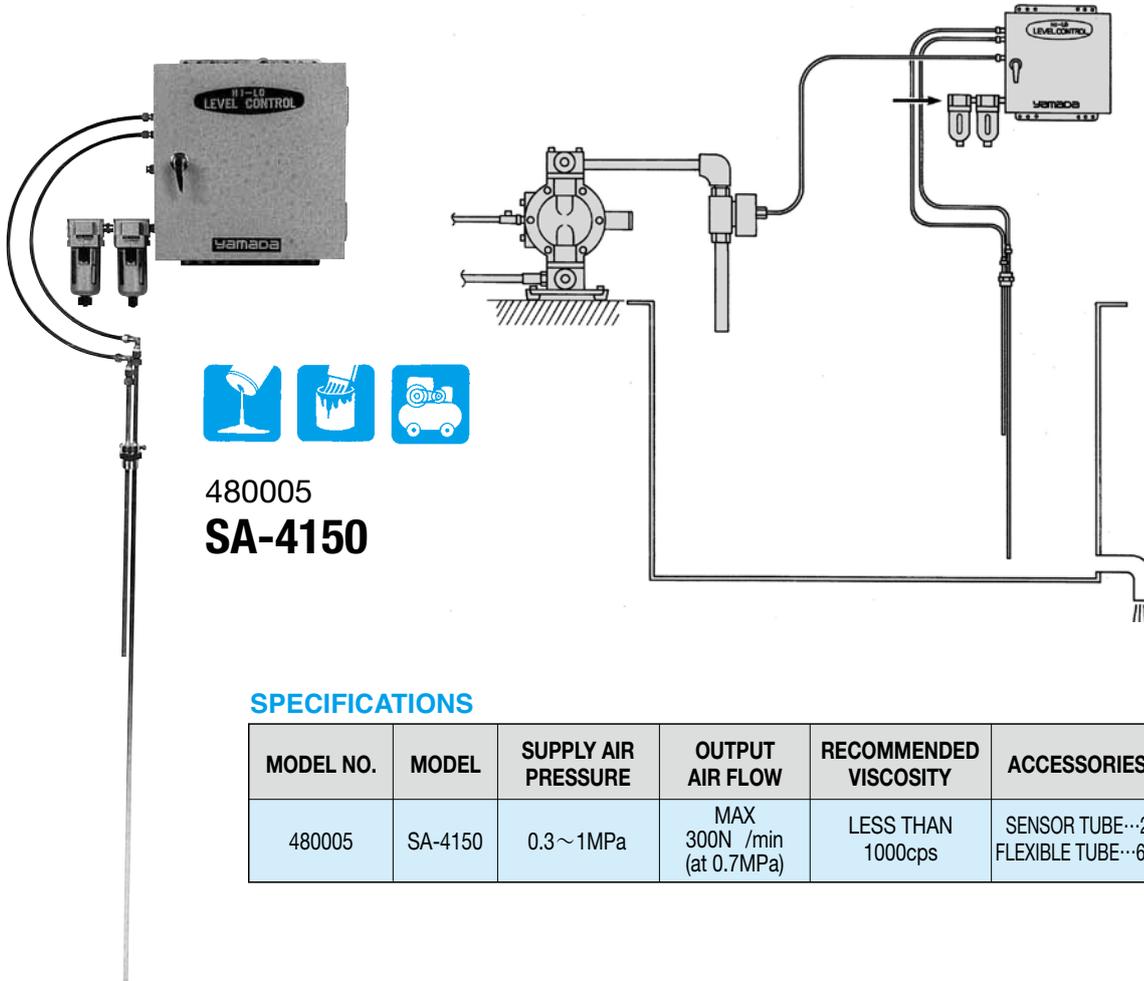
### SPECIFICATIONS

MODEL NO.	MODEL	SUPPLY AIR PRESSURE	OUTPUT AIR FLOW	RECOMMENDED VISCOSITY	ACCESSORY	NET WEIGHT (kg)
480008	SA-4100	0.2~0.7MPa (2~7kgf/cm <sup>2</sup> )	MAX 1000N /min (at 0.5MPa)	LESS THAN 2,500cps		2.2

# PNEUMATIC LEVEL ALARMS & LEVEL CONTROLLER

## High-Low Level Controller

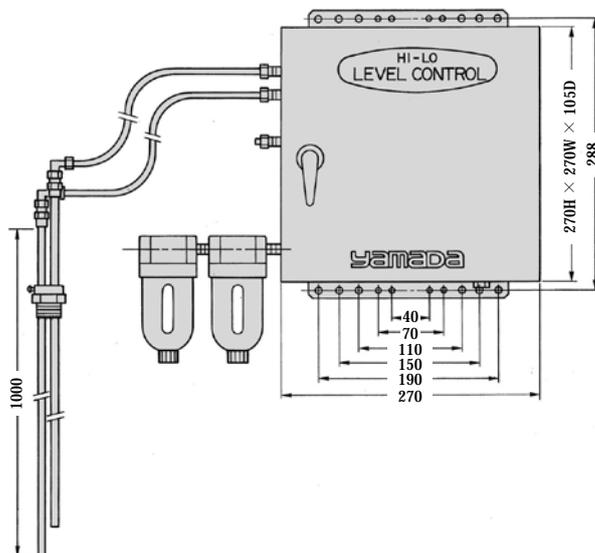
The high and low levels of liquid in a container can be kept within a certain predetermined level. This device is driven by compressed air and is therefore suitable for use in highly explosive, high temperature, high humidity environments. The system also works in high electromagnetic fields. It can handle any liquid with a viscosity of less than 1000cps.



### SPECIFICATIONS

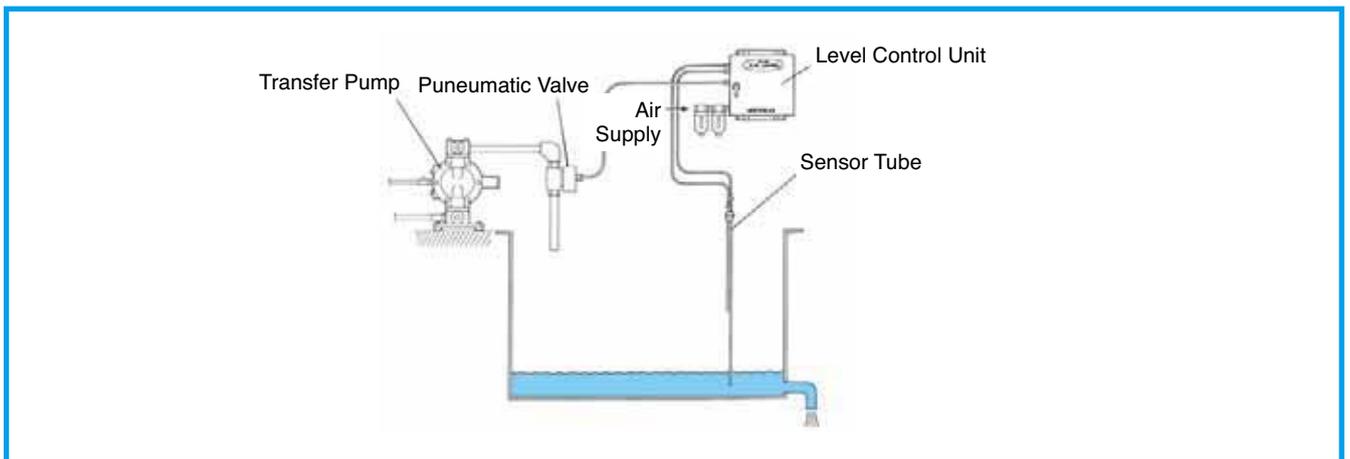
MODEL NO.	MODEL	SUPPLY AIR PRESSURE	OUTPUT AIR FLOW	RECOMMENDED VISCOSITY	ACCESSORIES	NET WEIGHT (kg)
480005	SA-4150	0.3~1MPa	MAX 300N /min (at 0.7MPa)	LESS THAN 1000cps	SENSOR TUBE...2 FLEXIBLE TUBE...6m	6

### Dimensions (mm)

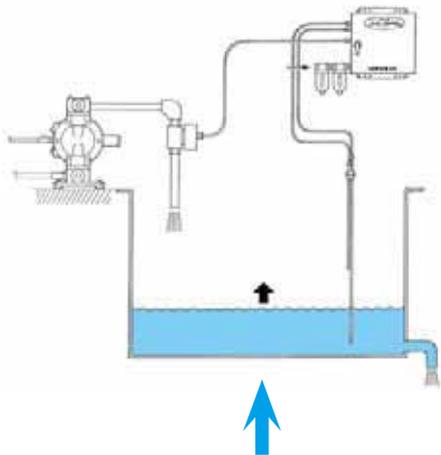


## TYPICAL INSTALLATION

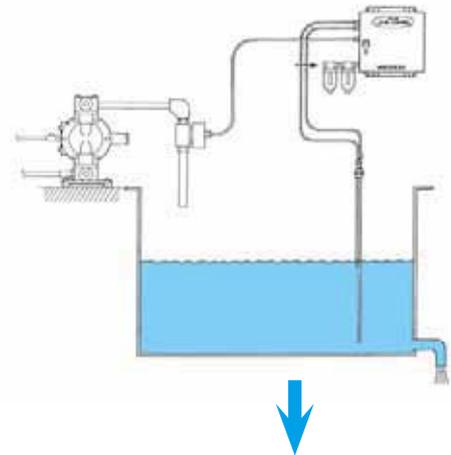
- Install the control unit near the tank.
- Then connect the air supply line to the control unit.
- Adjust the high and low levels by adjusting the level of the sensor tubes inside the tank
- When the liquid reaches the preset high or low level in the tank the pumps air supply will be stopped or started. Through various setup combinations the continuous control of fluid transfer is possible.



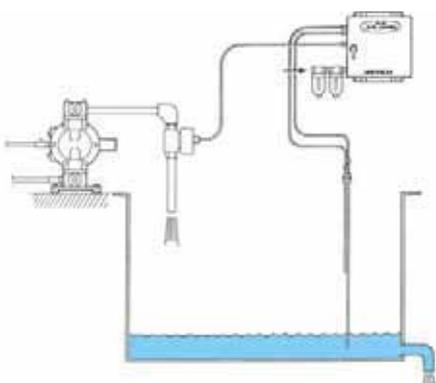
**1. Liquid is pumped to raise the level in the tank.**



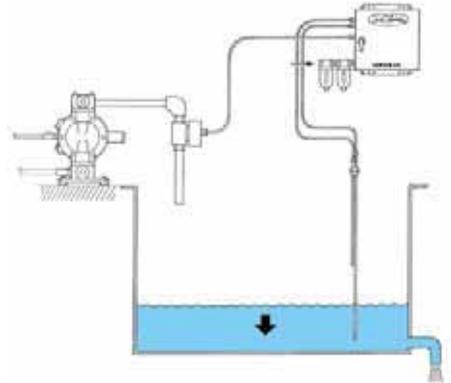
**2. When the liquid reaches the upper preset limit the controller stops the supply of air to the pump to shut off the flow of liquid.**



**4. When the liquid level reaches the lower preset level the air supply will be started to resume the flow of liquid from the pump.**



**3. The liquid level becomes lower.**



# PAINT SPRAY PUMP UNIT

## Paint Spray Pump Unit

The YSE-E1 is a newly developed spray paint unit that can be used as an alternative to ordinary paint pressure tank or paint cup systems. By using a double diaphragm pump this unit supplies a constant supply of paint to the spray gun eliminating the need for re supply by the operator.



880455  
**YSE-E1**



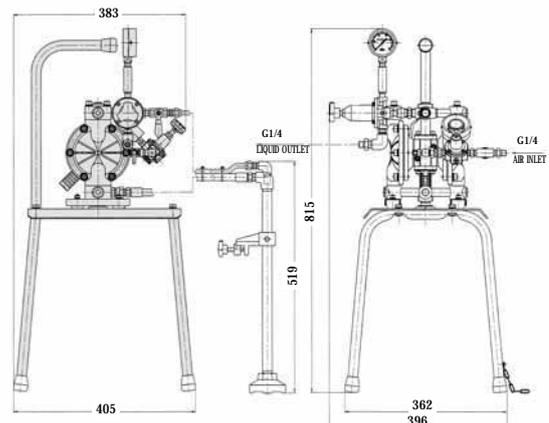
### SPECIFICATIONS

MODEL NO.	MODEL	ACCESSORIES	NET WEIGHT (kg)
880455	YSE-E1	695311 SUCTION HOSE (W/70 MESH FILTER) 681950 PANT REGULATOR (0~0.4MPa) 680454 AIR REGULATOR	12.2

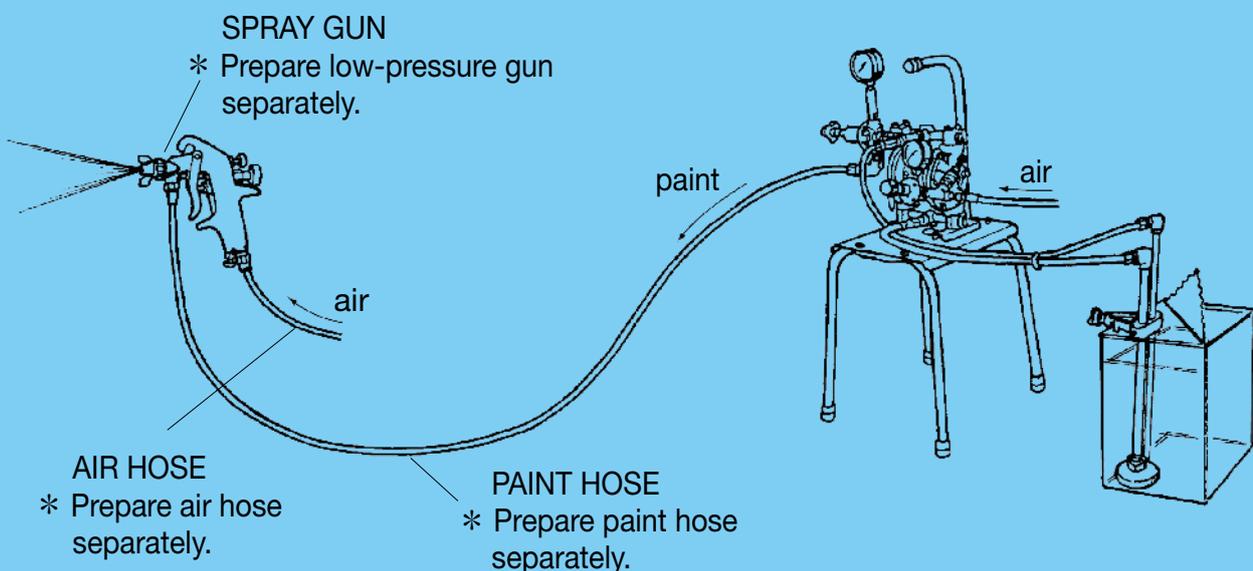
### PUMP DATA

MODEL NO.	MODEL	PUMP RATIO	MAX FLOW RATE
851725	DP-10BAT	1 : 1	15 /min

### Dimensions (mm)



## INSTALLATION



# WASTE OIL DRAINERS

## Waste Oil Drainer

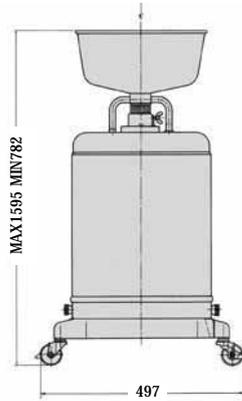
Portable oil drainers OD series have adjustable funnels and two kinds of tank capacities. When extracting waste oil from the tank, use either a manual or an air-operated pump type.



880264  
**OD-55**



Dimensions (mm)

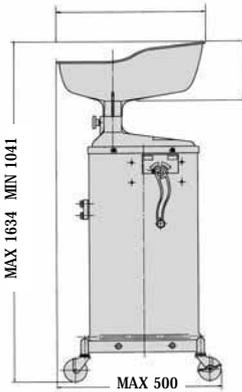


### OD-55

The standard portable waste oil drainer includes 20 liter pail and a float gauge. The drain funnel can be extended from 1041mm to 1634mm in height. This unit comes with a 2m discharge hose and connector.



880894  
**OD-70PG**

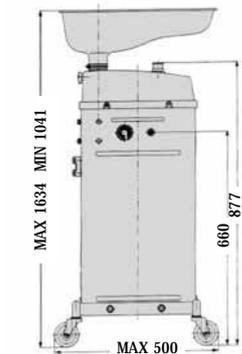


### OD-70PG

Waste oil can be transferred to a waste storage tank by using installed hand operated rotary pump. Newly designed large square shaped drain funnel prevents oil from splashing. Drain funnel can be extended from 1041mm to 1634mm height. Including 2m discharge hose with connector.



880895  
**OD-70APN**



### OD-70APN

The collected waste oil can be transferred to a waste oil storage tank quickly by using the air operated pump installed inside the unit. All other specifications are the same as 880894 OD-70PG.

## SPECIFICATIONS

MODEL NO.	MODEL	TANK CAPACITY	PUMP CAPACITY (MAX)	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880264	OD-55	20	—	13	0.1878
880264	OD-70PG	55	10 /40 rev	21	0.2277
880264	OD-70APN	55	15 /min	21	0.2277



# WASTE OIL DRAINERS

## Oil Drain Carts

The DC 77 waste oil drain cart is designed for medium to large sized vehicles.

The units overall height is only 190mm and can easily be placed under most vehicles. Accessories include a detachable air operated pump and delivery hose used to transfer waste oil to a storage tank. The DC-100 waste oil drain cart is designed for large trucks and construction machinery. An air operated diaphragm pump and suction hose is supplied in order to transfer oil to a storage tank or remove waste oil from a pit or reservoir.



880577  
**DC-77P**  
851634  
**DC-77S**



### SPECIFICATIONS

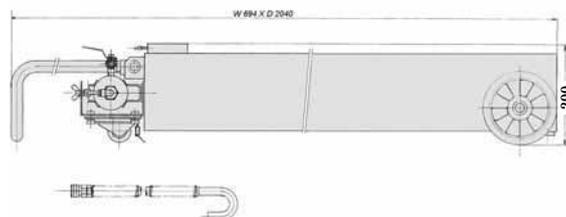
MODEL NO.	MODEL	TANK CAPACITY	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT(m <sup>3</sup> )
880577	DC-77P	77	851640 PUMP-HOSE UNIT 801793 DELIVERY HOSE	43.3	0.2832
※ 851634	DC-77S			40.0	0.17

※ without pump model.

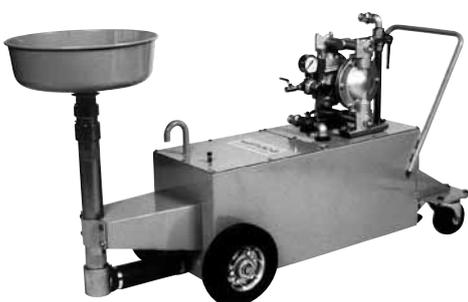
### PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	MAX AIR CONSUMPTION
851640	1.8 : 1	12 /min	130N /min

### Dimensions (mm)



880576  
**DC-100**



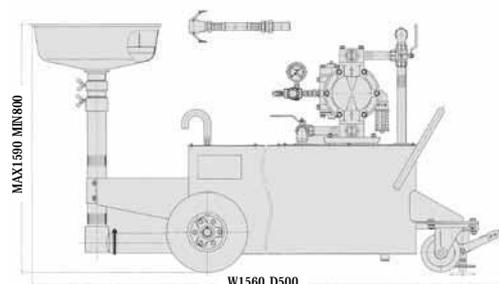
### SPECIFICATIONS

MODEL NO.	MODEL	TANK CAPACITY	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT(m <sup>3</sup> )
880576	DC-100	100	851317 DIAPHRAGM PUMP 802297 SUCTION TUBE	89.3	0.9633

### PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	MAX AIR CONSUMPTION
851317	1 : 1	40 /min	200N /min

### Dimensions (mm)



## Oil Drain Arms

Waste oil runs from drain funnel through the arm pipe to the storage tank. Telescopic arm of this drain funnel is adjustable and can be locked at the proper position.



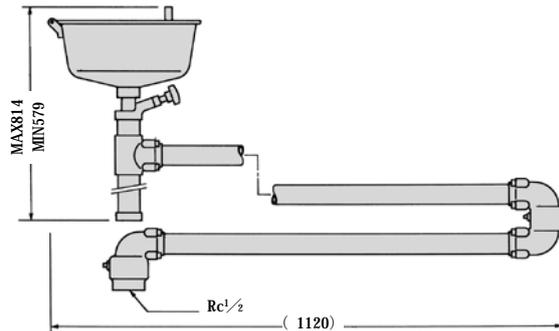
880129  
**DA-366**



### DA-366

The DA-366 is a two arm model that extends to 1900mm designed for mounting inside of a pit.

#### Dimensions (mm)



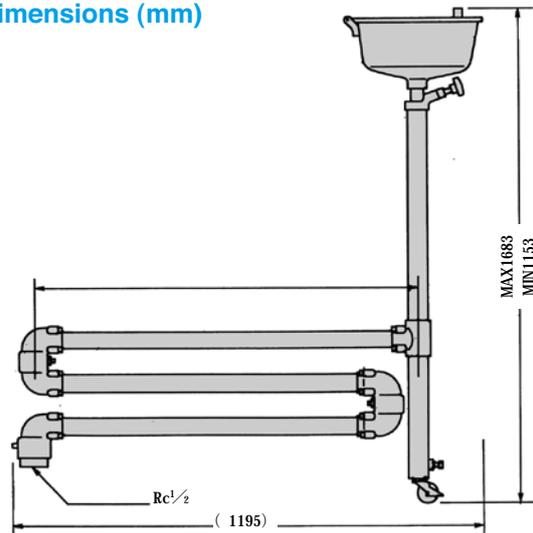
880130  
**DA-367**



### DA-367

DA-367 is designed for mounting on the floor and has three arms that extend to 2900mm covering a large area.

#### Dimensions (mm)



## SPECIFICATIONS

MODEL NO.	MODEL	APPLICATIONS	ROTATING DIAMETER		CONNECTION	NET WEIGHT (kg)	MEASUREMENT (m <sup>3</sup> )
880129	DA-366	WALL MOUNT	MIN : 1120	MAX : 1900	Rc1-1/2"	15.5	0.2233
880130	DA-367	FLOOR MOUNT	MIN : 1195	MAX : 2900	Rc1-1/2"	23.5	0.2453

# OIL DISPENSE BARS

## Oil Dispense Bar

The oil dispense bar is fitted with three taps and can dispense lubricants such as motor oil, gear oil and A.T.F. This unit must be connected to pumps used for fluid supply.

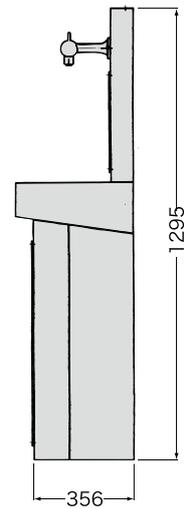
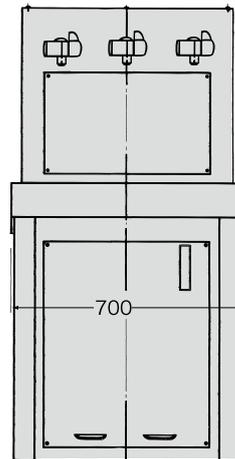
**Non-drip oil tap** This unit is splash proof and non-dripping. The large handle provides easy operation.



880162  
**OP-3**



Dimensions (mm)



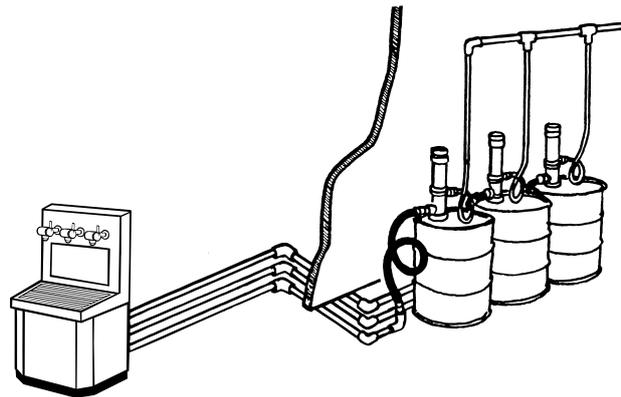
### SPECIFICATIONS

MODEL NO.	MODEL	ACCESSORIES	NET WEIGHT (kgs)	MEASUREMENT (m <sup>3</sup> )
880162	OP-3	800864 CONNECTING HOSE .....3 Units 801241 AIR REGULATOR.....3 Units	35	0.474

## Oil Dispense Tap

Can dispense oil by handling the tap lever.

Splash-less and non-dripping flow save fluid.



804469  
**SV-100**

### SPECIFICATIONS

MODEL NO.	MODEL	MAX PRESSURE
804469	SV-100	7MPa

# A.T.F. CHANGER

## Fully Automatic A.T.F. Changer

The AFC-9000S is used to remove and replace vehicle automatic transmission fluid. It is based on a new concept and uses revolutionary technology. Through various attachments this unit can service all automobile types in the market today. Because of its compact design and ease of use, the AFC-9000S can be operated by even untrained staff and will create a cleaner and more efficient workshop.



881068 (AC100V)  
881082 (AC220-240V)

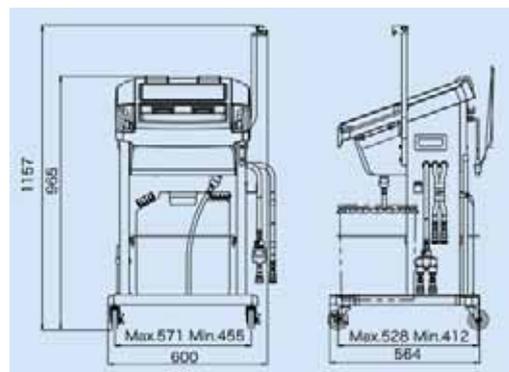
### AFC-9000S



### SPECIFICATIONS

MODEL NO.	881068 (AC100V) / 881082 (AC220-240V)
MODEL	AFC-9000S
POWER SOURCE	AC100V / AC220-240V
OPERATION MODE	1) CIRCULATION MODE 2) DIPSTICK MODE 3) CVT MODE 4) MANUAL MODE
METERING METHOD	PULSE COUNT
INSTALLATION	PORTABLE
FLOW RATE	NEW ATF SUPPLY : 2.2 /min PORTABLE (NOZZLE : $\phi 4.5 \times \phi 6$ , ATF TEMP : 20°C) WATER ATF : REMOVAL : 1.4 /min (NOZZLE : $\phi 4.5 \times \phi 6$ , ATF TEMP : 50°C) EXHAUST FROM WASTE ATF TANK : 3.0 /min (NOZZLE : $\phi 10 \times \phi 14$ , ATF TEMP : 20°C)
PUMP SPECIFICATIONS	TYPE : TOROCOID PUMP W/RELIEF VALVE (2 UNITS) CAPACITY : 3.7 /min (50 Hz) / 4.5 /min (60 Hz) DISCHARGE PRESSURE : 0.5 MPa MOTOR TYPE : CAPACITOR, RATING : CONTINUOUS
TANK CAPACITY	WASTE ATF : 18 DEDICATED TANK NEW ATF : AVAILABLE 20 PAIL, etc
HOSE	TWIN HOSE (NEW/WASTE) : 2M ( $\phi 17 \times \phi 9.5$ ) WASTE ATF HOSE : 2M ( $\phi 17 \times \phi 9.5$ )
DIMENSIONS	W600 × H1157 × D9.5
WEIGHT	53 kg (DRY)
MEASUREMENT	0.525 m <sup>3</sup>
ACCESSORIES	DIPSTICK NOZZLE ( $\phi 4.5 \times \phi 6 \times 1200$ mm) : 1 WASTE ATF EXHAUST NOZZLE ( $\phi 10 \times \phi 14 \times 350$ mm) : 1 ATTACHMENT (2 TYPES) : 1 SET NOZZLE HOLDER : 1 SCREW FOR NOZZLE HOLDER (M4 × L8) : 4

### Dimensions (mm)



# ENGINE OIL CHANGER

## Multifunctional Engine Oil Changer

The MD-70DP is an engine oil changer run by an air operated double diaphragm pump. This pump is suited to handling liquids that may contain abrasive particles such as metal sludge. This model has an oil drainer and a suction pump and is suitable for waste oil removal. Used especially in the automotive industry the MD-70DP comes supplied with three nozzles, two for regular applications on most automobiles and one for use only on Mercedes Benz, which requires a special method of oil replacement.



881003

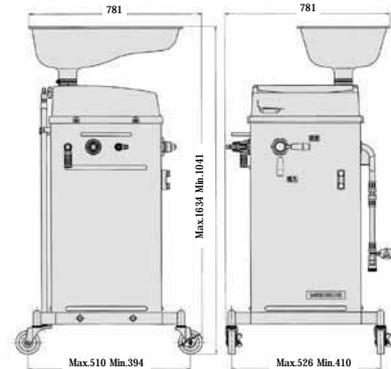
**MD-70DP**

### SPECIFICATIONS

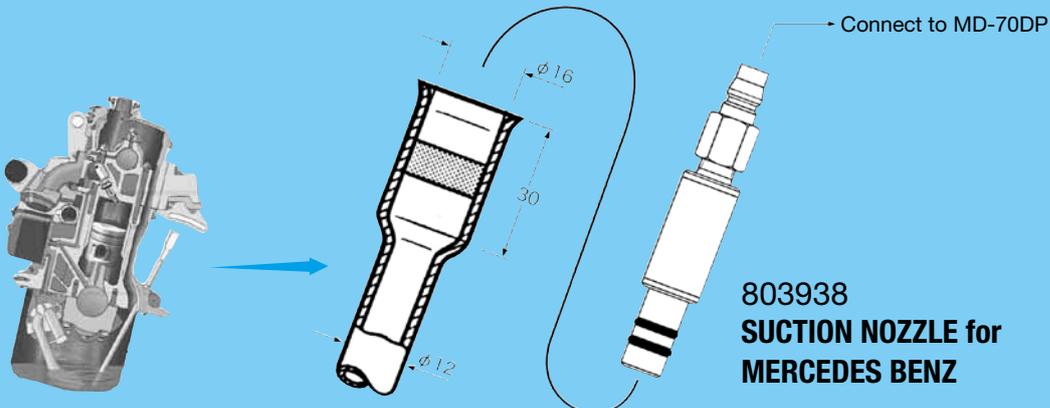
MODEL NO.	881003
MODEL	MD-70DP
PUMP SPECIFICATIONS	853654 DIAPHRAGM PUMP DP-10BAN : 1 UNIT MAX FLOW : 13 /min (NORMAL CONDITION)
WASTE OIL TANK CAP.	55
NET WEIGHT	19 kg
ACCESSORIES	804203 SUCTION NOZZLE $\phi 6 \times \phi 4.5 \times 700$ mm 803938 SUCTION NOZZLE for MERCEDES BENZ 803818 WASTE OIL EXTRACT NOZZLE



### Dimensions (mm)



### CONNECTION TO SPECIAL TYPE OF DIPSTICK



# TIRE AIR INFLATORS

## Preset Tire Air Inflator

The AT-331 tire inflator has a preset air pressure gauge adjusted by turning the preset knob to the tires required air pressure. A built in bell rings while the tire is being inflated and an air filter ensures clean dry air.



880978

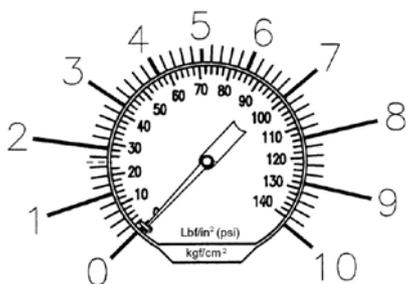
**AT-331**



802762 FLOOR STAND

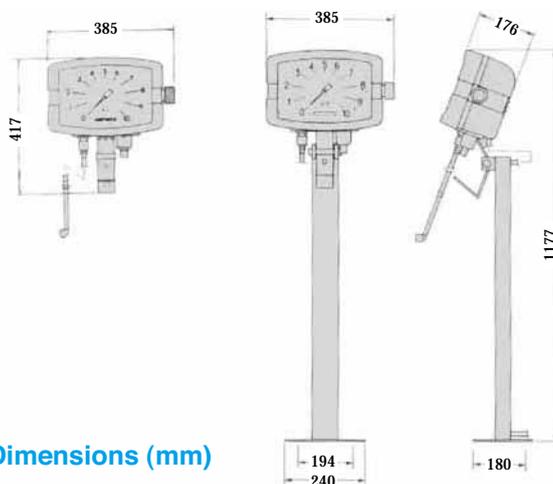


### SCALE



### SPECIFICATIONS

MODEL NO.	880978
MODEL	AT-331
GAUGE TYPE	kgf/Lbf (psi)
PRESET RANGE	0.2~10 kgf/cm <sup>2</sup> (2.8~148 psi)
OPERATIVE TEMP	-5~60°C
ACCESSORIES	10m AIR HOSE W/TIRE CHUCK
NET WEIGHT	10.5 kg
MEASUREMENT	0.06m <sup>3</sup>



Dimensions (mm)

# TIRE AIR INFLATORS

## Portable Tire Air Inflators

The ATC series tire air inflator provides maximum portability and durability.

The large stainless steel tank is completely rust free. The unit comes with a pressure valve that purges air when it reaches more than 0.9 Mpa (9.9kgf/cm<sup>2</sup>).



881021

**ATC-99L**



880792

**ATC-99S**



881022

**ATC-150L**

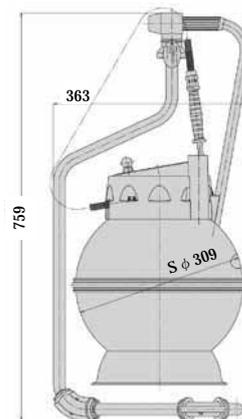
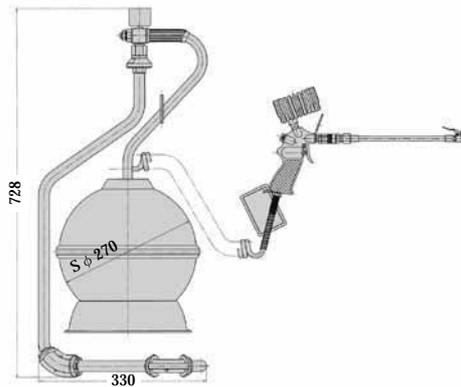
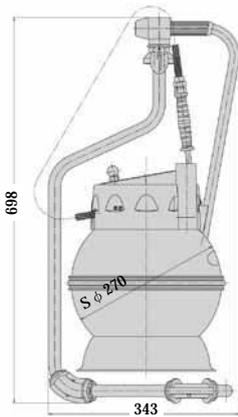


### Dimensions (mm)

ATC-99L

ATC-99S

ATC-150L



### SPECIFICATIONS

MODEL NO.	MODEL	INFLATION RANGE	TANK CAPACITY	NET WEIGHT (kg)
881021	ATC-99L	ATC-99S	9.9	BODY : 5.1 STAND : 2.0
880792	ATC-99S			BODY : 4.3 STAND : 2.0
881022	ATC-150L		15	BODY : 6.7 STAND : 2.0

# TIRE NITROGEN INFLATOR

## Tire Nitrogen Charge Stand

Nitrogen charged tires provide a better ride quality. For that reason the number of automobiles that use nitrogen charged tires is increasing. Due to the market demand Yamada developed this simple nitrogen charge stand.

The CCS-99S2 generates nitrogen by the use of compressed air. The nitrogen is then stored in 2 portable inflators which hold approximately 20 liters of nitrogen, enough to inflate 10 tires\*. It is a simple and compact design and no other equipment is necessary.

\* When charging a normal size tire (34L) to 240Kpa.



881026

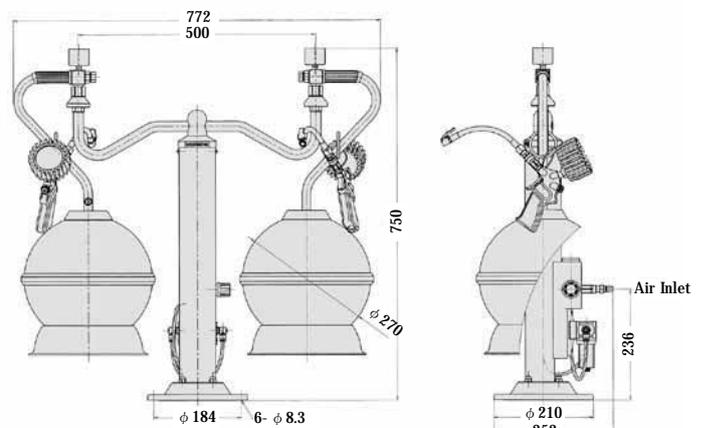
**CCS-99S2**



### SPECIFICATIONS

MODEL NO.	881026
MODEL	CCS-99S2
NITROGEN CONCENTRATION	ABOVE 98%
NITROGEN GENERATION RATE	3.5 N /min
SUPPLY AIR TEMPERATURE RANGE	5~60°C
SUPPLY AIR PRESSURE RANGE	12~15MPa
TANK CAPACITY	9.9 ×2
STORAGE NITROGEN PRESSURE	0.99MPa
LEAD TIME TO FILL THE TANKS	50 Min.
NET WEIGHT	22.5 kg (TANK INCL)

### Dimensions (mm)



# REFRIGERANT RECOVERY UNITS

## Refrigerant Recovery/Recycling/Evacuation/Recharging Unit

Used to service automotive air conditioning units, this multi function unit can carry out recovery, recycling, evacuation and recharging of refrigerant gas automatically. This unit is necessary to prevent ozone-depleting substances escaping into the atmosphere. Because of its large built in manifold, a separate gauge manifold is not required. The condition of the refrigerant flow can be checked through the sight glass. An oil free low maintenance high performance compressor enables quick refrigerant recovery. The microprocessor provides easy operation with minimal controls.



881038 (AC100V)  
150000 (AC220-240V)



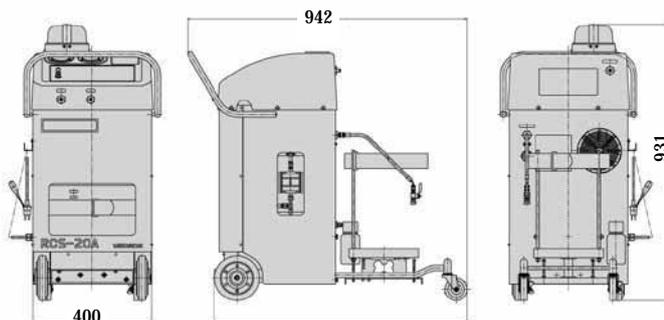
**RCS-20ABB**



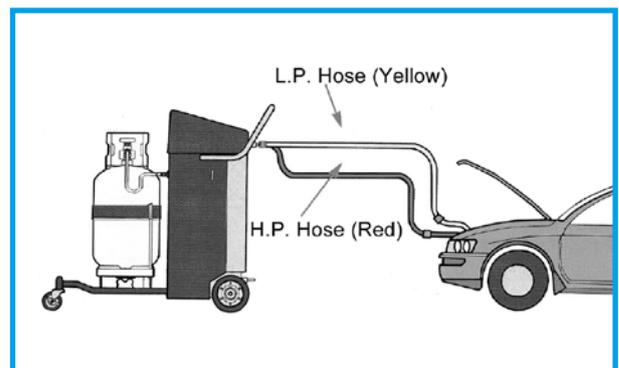
### SPECIFICATIONS

MODEL NO.	881038/150000
MODEL	RCS-20ABB
POWER SOURCE	AC100V/AC200-240V
POWER RATING	10A
REFRIGERANT	R-134a/R-12
RECOVERING CAPACITY	240g/min (25°C)
VACUUM DISPLACEMENT	14 /min
REFRIGERANT TANK	21
OPERATING TEMP RANGE	0 ~ 35°C
WEIGHT	45 kg (EXCEPT TANK)
ACCESSORIES	685689 L.P. HOSE for R-134a (Yellow) : 1 695690 H.P. HOSE for R-134a (Red) : 11 684746 Quick chuck for R-134a (Yellow) : 11 684828 Quick chuck for R-134a (Red) : 11 695694 Hose w/adaptor (L.P.) for R-12 : 11 695693 Hose w/adaptor (H.P.) for R-12 : 1 695695 Hose w/adaptor (H.P.) for R-12 : 1 695691 L.P. hose 1.5m for R-12 : 1 695692 H.P. hose 1.5m for R-12 : 1 684447 Ball valve : 3 684446 Refrigerant tank (Capacity 21Liter) : 2 695678 Hose for tank 0.6m : 1

### Dimensions (mm)



### INSTALLATIONS



## Refrigerant Recovery Unit

The RVC-22 is specialized for refrigerant recovery. With its evacuation function a separate vacuum pump is not required. This high performance machine carries out fast refrigerant recovery preventing the any ozone depleting substances from leaking into the atmosphere.



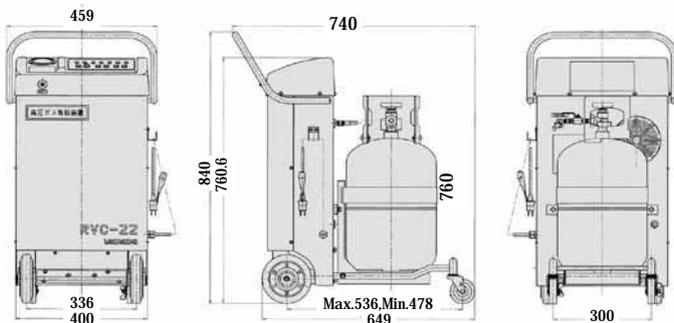
881018 (AC100V)  
150000 (AC220-240V)



**RVC-22B**



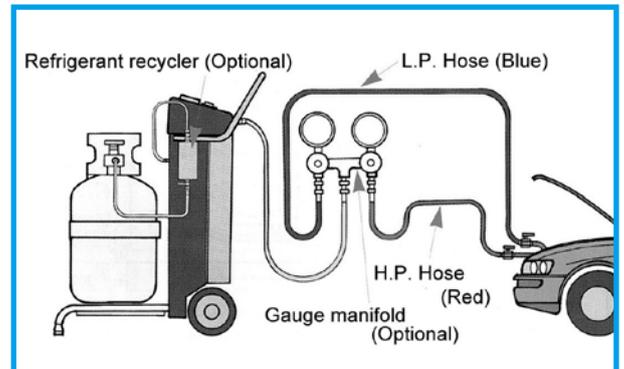
### Dimensions (mm)



### SPECIFICATIONS

MODEL NO.	881018/150000
MODEL	RCS-22B
POWER SOURCE	AC100V/AC200-240V
POWER RATING	4A
REFRIGERANT	R-134a/R-12
RECOVERING CAPACITY	240g/min (25°C )
REFRIGERANT TANK	21
OPERATING TEMP RANGE	0 ~ 35°C
WEIGHT	33 kg (EXCEPT TANK)
ACCESSORIES	684448 Joint for tank (UNF7/16-20 x W26-24) : 1 684447 Ball valve (UNF7/16-20 x UNF7/16-20) : 1 695678 Hose (600mm, UNF7/16-20, Red) : 1 684644 Adapter (M10xUNF7/16-20) : 1 684446 Refrigerant tank (Capacity 21Liter) : 1

### INSTALLATIONS



## Refrigerant Recycler

The RF-0821 can be used together with the RVC-22 recovery unit. It has a moisture indicator display indicating the life of the filter cartridge.



804219  
**RF-0821**



#### ACCESSORIES

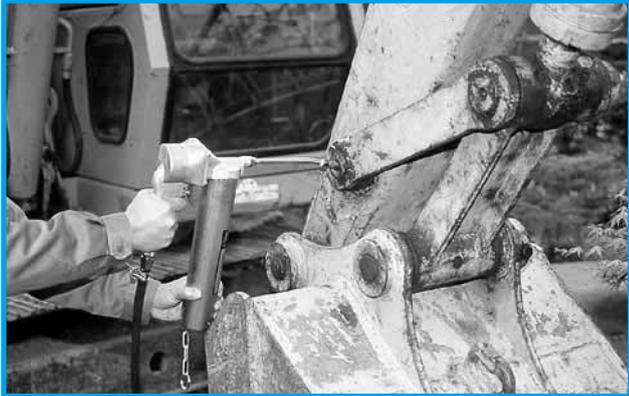
684447 Ball valve : 2  
695678 Hose : 2



# HANDY TYPE GREASE GUNS

## Electric & Air-Operated Grease Guns

Using these guns, pressures up to 590Mpa can be developed with a simple pull of the trigger. They are compact and come in AC-100V, DC-24V battery and air operated types. The guns use a bellows type grease cartridges with a maximum volume of 400ml. These guns are excellent for use in heavy industry, on all kinds of machines, vehicles, and in areas with restricted space.



**YAMADA GENUINE  
CARTRIDGE GREASE**  
(See P.67)



852216  
**EG-400B BATTERY TYPE**



852441  
**EG-400D DC-24V TYPE**



852443  
**EG-400A AC-100V TYPE**



853755  
**AMG-400 AIR-OPERATED TYPE**



**852216 EG-400B ELECTRIC DRIVEN BATTERY**

This rechargeable battery powered electric gun can supply 200/400g cartridges of grease on only one recharge. With maximum portability, easy operation and a high discharging pressure, this gun is suited for work areas where there are no other power sources.

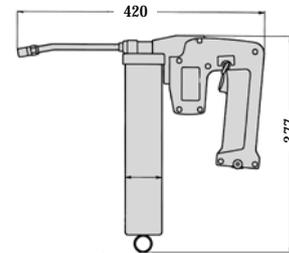
**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	VOLTAGE	NET WEIGHT (kg)
CARTRIDGE GREASE 420 Mℓ & 210 Mℓ	1.6 Mℓ / sec. (6MPa LOAD)	32MPa (320kgf/cm <sup>2</sup> )	DC-9.6V	2.58 W/O CHARGER

**BATTERY CHARGER**

VOLTAGE	OUTPUT POWER	CHARGE TIME
AC-100V	DC-7.2 ~ 9.6V-1.9A	APPROX. 1 HOUR

Dimensions (mm)



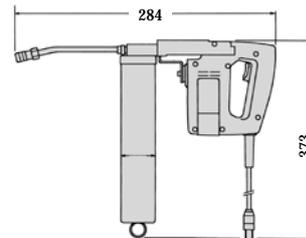
**852441 EG-400D ELECTRIC DRIVEN DC-24V**

This grease gun is powered by the DC 24V battery used in heavy construction machinery. This unit provides maximum portability, easy operation with a high discharge pressure.

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	VOLTAGE	NET WEIGHT (kg)
CARTRIDGE GREASE 420 Mℓ & 210 Mℓ	1.6 Mℓ / sec. (6MPa LOAD)	32MPa (320kgf/cm <sup>2</sup> )	DC-24V/430W	3.2

Dimensions (mm)



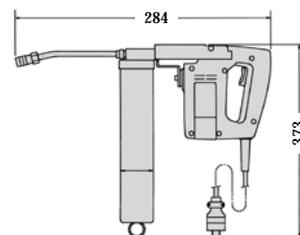
**852443 EG-400A ELECTRIC DRIVEN AC100V**

This AC100V, electric powered grease gun uses a common worldwide power supply. Providing maximum portability, easy operation and high discharge pressure.

**SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	VOLTAGE	NET WEIGHT (kg)
CARTRIDGE GREASE 420 Mℓ & 210 Mℓ	1.6 Mℓ / sec. (6MPa LOAD)	50MPa (500kgf/cm <sup>2</sup> )	AC-100V 50-60Hz	3.2

Dimensions (mm)



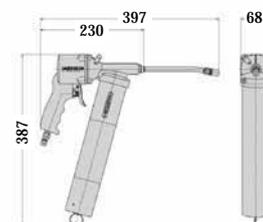
**853755 AMG-400 AIR-OPERATED**

A heavy-duty air operated machine gun type grease gun that will continuously discharge grease as long as the trigger is held. It operates on up to 0.7mpa air inlet pressure and is used with the bellows type 400g cartridge.

**SPECIFICATIONS**

CONTAINER CAPACITY	AIR SUPPLY PRESSURE	OUTPUT/ STROKE	OUTPUT PRESSURE	NET WEIGHT (kg)
CARTRIDGE GREASE 420 Mℓ & 210 Mℓ	0.2 ~ 0.9MPa (2~9kgf/cm <sup>2</sup> )	1 Mℓ	45MPa (450kgf/cm <sup>2</sup> )	2.1

Dimensions (mm)



# HANDY TYPE GREASE GUNS

## Extension Nozzles & Micro Hoses

800520 **HSP-1**



800710 **HSP-2**



800568 **HSP-8**



800702 **CNP-13**



800570 **HSP-10**



800701 **HSP-3**



851268 **SPK-700E**



800531/800713 **CNP-2**



850664 **SPK-1C**



850665 **SPK-2C**



850666 **SPK-3C**



850381 **SPK-20C**



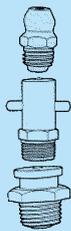
850392 **SPK-5**



## SPECIFICATIONS

CLASSIFICATION	MODEL NO.	MODEL	OVERALL LENGTH (mm)	MODEL	NET WEIGHT (g)	REFERENCE
STRAIGHT NOZZLE	800520	HSP-1	120	R1/8"	50	FOR HYDRAULIC FITTINGS
	800710	HSP-2	240		100	
	800568	HSP-8	220		90	
	800570	HSP-10	450		190	
	800701	HSP-3	135		55	FOR BEARING
HYDRAULIC NOZZLE	800531	CNP-2	171	R1/8"	90	FOR HYDRAULIC FITTINGS
	800702	CNP-13	325		135	FOR HYDRAULIC FITTINGS
FLEXIBLE EXTENSION HOSE MICRO HOSE®	850664	SPK-1C	355	R1/8"	240	FOR PIN TYPE FITTINGS
	850665	SPK-2C	375		300	FOR BUTTON HEAD FITTINGS
	850666	SPK-3C	330		200	FOR HUDRAULIC FITTINGS
	850478	SPK-1C.1M	1069		189	FOR PIN TYPE FITTINGS
	850479	SPK-2C.1M	1070		242	FOR PIN TYPE FITTINGS
	850480	SPK-3C.1M	1030		132	FOR BUTTON HEAD FITTINGS
	850381	SPK-20C	377		320	FOR BUTTON HEAD FITTINGS
	850392	SPK-5	421		300	FOR HUDRAULIC FITTINGS
	851268	SPK-700E	700		R1/8"	510

## GREASE FITTINGS



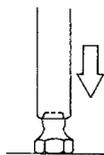
HYDRAULIC TYPE FITTING

PIN TYPE FITTING

BUTTON HEAD TYPE FITTING

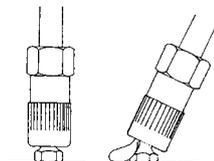
### HSP-1, 2, 8 and 10

By connecting the end of the nozzle vertically onto a hydraulic type grease nipple, grease is supplied.



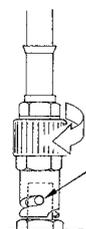
### CNP-2, 13, SPK-3C, 5 and 700E

Supply grease by connecting and chucking the nozzle vertically on hydraulic type grease nipple. When disconnecting, first incline the nozzle to release the internal pressure.



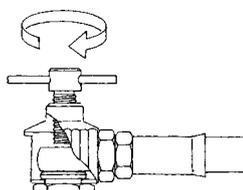
### SPK-1C

Insert chuck nozzle into "Pin" type grease nipple and tighten it completely.

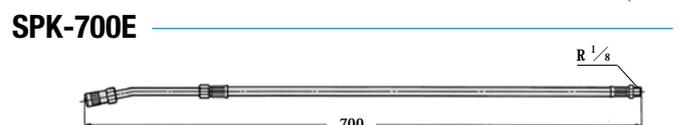
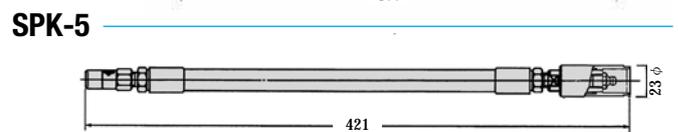
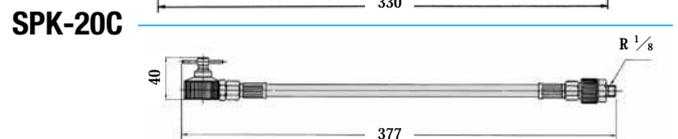
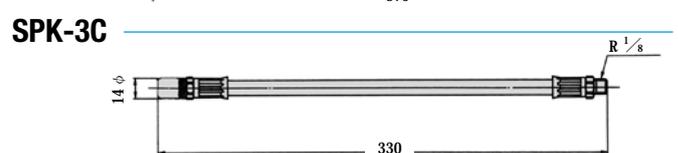
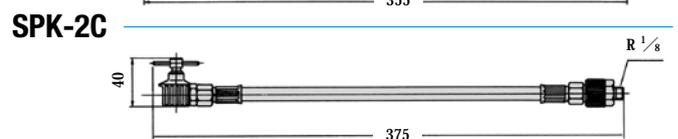
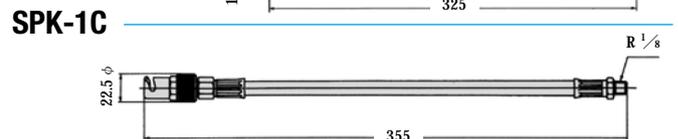
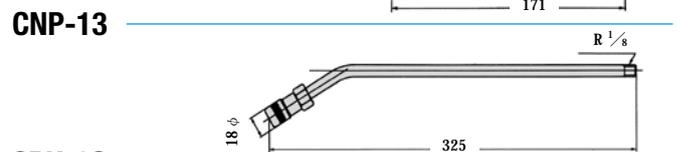
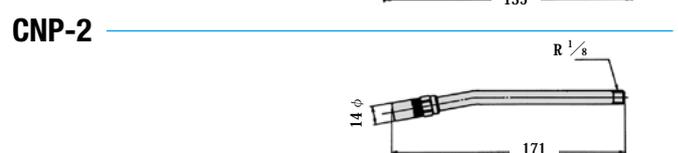
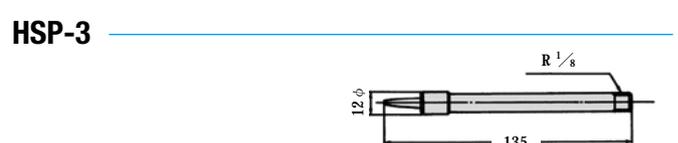
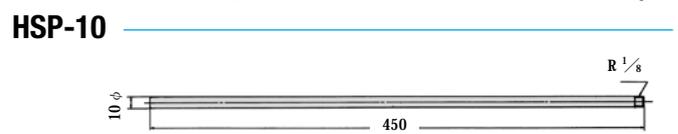
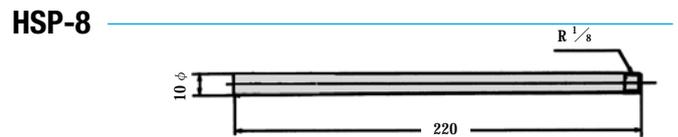
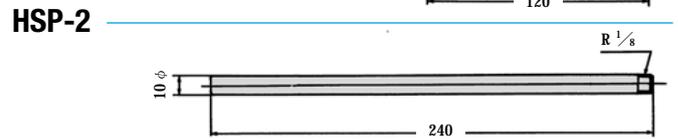
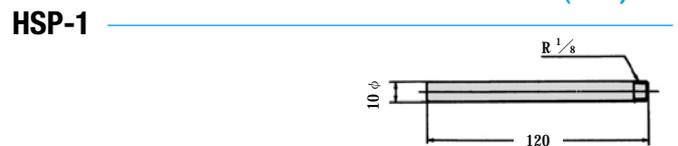


### SPK-2C, 20C

Slide in chuck nozzle into "Button Head" type grease nipple and tighten by turning screw of the handle.



## Dimensions (mm)



# HANDY TYPE GREASE GUNS

## Multi Purpose Cartridge Grease

**MMG-400**



**MMG-200**



**MMG-80**



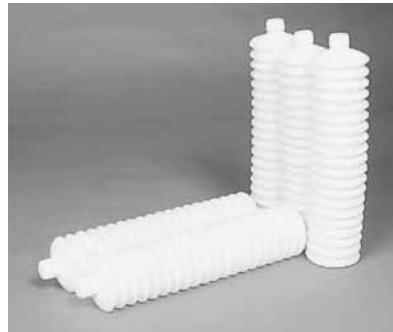
## High Temperature Cartridge Grease

**NPC-AA**



## Food Process Cartridge Grease

**VISO 835**

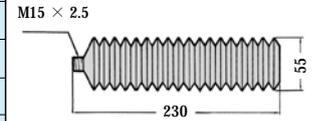


### GREASE DATA

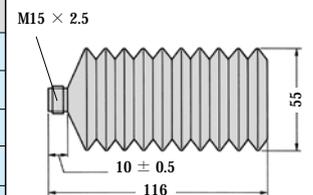
TYPE OF GREASE	FEATURE	APPLICATION
LITHIUM GREASE (MP)	A multi purpose grease that has durability and resistance to high temperatures and high pressure.	Bearing for industrial equipment, automobiles, construction equipment and conveyor.
CHASSIS GREASE (CG)	A chassis grease which is resistant to high pressure and water.	Chassis of automobiles, construction equipment, conveyor and agricultural equipment.
MORYBDENUM GREASE (MO)	A molybdenum based grease that has extra durability and resistance to extra high temperatures and high pressure.	Construction equipment, joints, bearings, the part on which needs high pressure and heating.
UREA GREASE (AA)	Urea grease which has extra durability resistance to extra high temperatures and high pressure with a long life and rust proof.	Equipment for heavy industry, paper industry, cement industry, and any other application that require high heat resistance and long life.
ALUMINUM COMPLEX GREASE (FM 835)	Food grade (AA) grease for food process.	Food industry

**MMG-400****MULTI PURPOSE CARTRIDGE GREASE****SPECIFICATIONS**

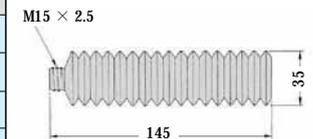
MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	GRADE (NLGI UNIT)	CONTAINED/pc
					PACKAGE
682314	MMG-400MP	LITHIUM	No.2	-15°C~130°C	420 Mℓ
					20pcs/box
682313	MMG-400CG	CHASSIS	No.1	-10°C~80°C	420 Mℓ
					20pcs/box
682312	MMG-400MO	MOLYBDENUM	No.2	-15°C~150°C	420 Mℓ
					20pcs/box

**Dimensions (mm)****MMG-200****MULTI PURPOSE CARTRIDGE GREASE****SPECIFICATIONS**

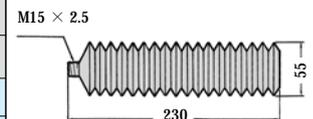
MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	GRADE (NLGI UNIT)	CONTAINED/pc
					PACKAGE
683311	MMG-200MP	LITHIUM	No.2	-15°C~130°C	210 Mℓ
					20pcs/box
683312	MMG-200CG	CHASSIS	No.1	-10°C~80°C	210 Mℓ
					20pcs/box
683313	MMG-200MO	MOLYBDENUM	No.2	-15°C~150°C	210 Mℓ
					20pcs/box

**Dimensions (mm)****MMG-80****MULTI PURPOSE CARTRIDGE GREASE****SPECIFICATIONS**

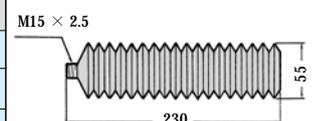
MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	GRADE (NLGI UNIT)	CONTAINED/pc
					PACKAGE
682593	MMG-80MP	LITHIUM	No.2	-15°C~130°C	85 Mℓ
					30pcs/box
683309	MMG-80CG	CHASSIS	No.1	-10°C~80°C	85 Mℓ
					30pcs/box
683310	MMG-80MO	MOLYBDENUM	No.2	-15°C~150°C	85 Mℓ
					30pcs/box

**Dimensions (mm)****684220 NPC-AA****HIGH TEMPERATURE CARTRIDGE GREASE****SPECIFICATIONS**

MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	GRADE (NLGI UNIT)	CONTAINED/pc
					PACKAGE
684200	NPC-AA	UREA	No.2	-20°C~180°C	420 Mℓ
					20pcs/box

**Dimensions (mm)****684201/68420105****VISO 835****FOOD PROCESS CARTRIDGE GREASE****SPECIFICATIONS**

MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	GRADE (NLGI UNIT)	CONTAINED/pc
					PACKAGE
684201	VISO 835	ALUMINUM COMPLEX	No.2	-38°C~210°C	365 Mℓ
					20pcs/box
68420105	VISO 835 MINI	ALUMINUM COMPLEX	No.2	-38°C~210°C	365 Mℓ
					5pcs/box

**Dimensions (mm)**

# INDEX

<i>MODEL</i>	<i>Model No.</i>	<i>Description</i>	<i>Page</i>
<b>A</b>			
AFC-9000S	881082	Fully Automatic A.T.F. Changer	58
AMG-400	853755	Air-Operated Handy Type Grease Gun	65
AT-331	880978	Preset Tire Air Inflator	60
ATC SERIES		Portable Tire Air Inflator	61
<b>C</b>			
CCA-99S2	881026	Tire Nitrogen Charge Stand	62
CE-450C	V191180	Vacuum Nozzle w/ Brush	46
CNP SERIES		Extension Nozzle	67
CR SERIES		Compact Reel	38-41
CRBOX SERIES		Multi Reel Box	42
CR-SWB SERIES		Swing Bracket	42
<b>D</b>			
DA-366	880129	Oil Drain Arm	56
DA-367	880130	Oil Drain Arm	56
DC-77P	880577	Oil Drain Cart	55
DC-77S	851634	Oil Drain Cart	55
DC-100	880576	Oil Drain Cart	55
DN SERIES		Oil Dispense Nozzle	46
DR-110A50	851783	Grease Supply Pump	21
DR-110A50 AL	880628	Grease Pump Unit	25
DR-50A1	852628	Oil Supply Drum Pump	27
DR-50A3	852633	Oil Supply Drum Pump	27
DR-90A3	880966	Oil Supply Drum Pump	27
DR-110A5	851754	Oil Supply Drum Pump	27
DR-160A10	850160	Oil Supply Drum Pump	27
DR-110A15	851826	Oil Supply Drum Pump	27
DRUM COVERS		Drum Cover	23
<b>E</b>			
EG-400 SERIES		Electric Driven Handy Type Grease Gun	65
EPL-100	880899	Electric Driven Grease Lubricator	19
EPL-240	854027	Electric Driven Grease Lubricator	19
<b>F</b>			
FLOOR STAND FOR AT-331	802762	Floor Stand for AT-331	60
FOLLOWER PLATES		Follower Plate	23
<b>G</b>			
GP-85	880879	Bearing Grease Packer	17
GP-KIT	851661	Nozzle Attachent Kit for GP-85	18
<b>H</b>			
HDV SERIES		High-Volume Oil Dispense Valve	46
HOP-20	880571	Hand Bucket Pump for Oil	9
HPG-50	880276	Oval-Shaped Bucket Pump for Grease	11
HPG-G	851985	H.P. Grease Gun	43
HPG-G13	852164	H.P. Grease Gun	43
HPP-110A50	880629	Grease Pump Unit	25
HPP-110A50AL	880630	Grease Pump Unit	25
HSP SERIES		Extension Nozzle	67
<b>K</b>			
KP-90	880995	Oil Supply Wall Mounted Pump Unit	30
KP-110	880634	Oil Supply Wall Mounted Pump Unit	30
KP-160	880148	Oil Supply Wall Mounted Pump Unit	30
KPL-24	880639	Electric Driven Grease Lubricator	19
KPL-55	880873	Grease Lubricator	13
KPL-55C	802335	Caster	20
KPL-BK	683239	Cover	20
<b>L</b>			
LBM-D	802765	Grip Meter Digital Type	45
LBM-G	801428	Grip Meter Mechanical Type	45
LBM-P	804536	Lube Batch Meter Digital Type	45
LBM-16	802237	Lube Batch Meter Mechanical Type	44
LBM-30	802238	Lube Batch Meter Mechanical Type	44
LBM-60	801429	Lube Batch Meter Mechanical Type	44
LDS SERIES		Lubrication Dolly Set	48
LPO-50	880318	Oval-Shaped Hand Bucket Pump for Oil	11
LUBRICATION TRUCK		Lubrication Truck	49
<b>M</b>			
MD-70DP	881003	Multifunctional Engine Oil Changer	59
MMG SERIES		Multi Purpose Catridge Grease	69
MOUNTING RAIL		Hose Reel Mounting Rail	37

<i>MODEL</i>	<i>Model No.</i>	<i>Description</i>	<i>Page</i>
<b>M</b>			
MOUNTING BRACKET		Hose Reel Mounting Bracket	37
MPU-KP	851837	Wall Mounting Panel Unit	31
MPU-KP160	852744	Wall Mounting Panel Unit	31
MTB-SH	800400	Mounting Bracket	31
<b>N</b>			
NDN SERIES		Non-Drip Nozzle	45
NHR HOSE REEL SERIES		Cabinet Hose Reel	35
NOZ-P	705387	Straight Nozzle	45
NPC-AA	684200	High Temperature Cartridge Grease	69
NSR HOSE REEL SERIES		Stainless Steel Hose Reel	36
NSHR HOSE REEL SERIES		High Capacity Hose Reel	36
NVR HOSE REEL SERIES		Vacuum Hose Reel	36
<b>O</b>			
OD-55	880264	Waste Oil Drainer	54
OD-70PG	880894	Waste Oil Drainer	54
OD-70APN	880895	Waste Oil Drainer	54
ODV SERIES		Oil Dispense Valve	46
OIL-SJ	804553	Swivel Joint	45
OP-3	880162	Oil Dispense Bar	57
<b>P</b>			
PRV-7	682428	Pressure Relief Valve	31
PUMP MOUNTING FANGE	802159	Pump Mounting Flange	23
<b>R</b>			
RCS-20ABB	881038/150000	Refrigerant Recovery/Recycling/Evacuation/Recharging Unit	63
RF-0821	804219	Refrigerant Recycler	64
RVC-22B	881018/150000	Refrigerant Recovery Unit	64
<b>S</b>			
S-20	851003	Dolly	9,20
SA-4100	480007	Low-Level Alarm	50
SA-4110	480008	High-Level Alarm	50
SA-4150	480005	High-Low Level Controller	51
SCK-200D	850126	Suction Tube Assembly	31
SGR-55	880267	Oil Lubricator	15
SGR-110A5	880635	Oil Lubricator	15
SH-50A1	852629	Oil Supply Siphon Pump	29
SH-50A3	852634	Oil Supply Siphon Pump	29
SH-90A3	880967	Oil Supply Siphon Pump	29
SH-110A5	881014	Oil Supply Siphon Pump	29
SH-160A10	850097	Oil Supply Siphon Pump	29
SK-8	880194	hand Bucket Pump for Grease	7
SK-55	880307	hand Bucket Pump for Grease	7
SK-77	880308	hand Bucket Pump for Grease	7
SK-77EXS	880624	Grease Hand Bucket Pump	5
SKR-55	880870	Grease Lubricator	13
SKR-66	880877	Grease Lubricator	13
SKR-110A50	880631	Grease Lubricator	13
SL-13TR	683416	Pendant Light	42
SPK SERIES		Micro Hose	67
SR-3C10K	852077	Grease Hose Reel	20
SR HOSE REEL SERIES		Hose Reel	32-34
STB-50	880134	Hand Bucket Pump for Oil	9
STB-60	880135	Hand Bucket Pump for Oil	9
STB-70	880136	Hand Bucket Pump for Oil	9
STB-60EXS	880626	Hand Bucket Pump for Oil	5
STB-70EXS	880627	Hand Bucket Pump for Oil	5
STB-M	851942	Oil Meter	9
SV-100	804469	Oil Dispense Tap	57
<b>V</b>			
VISO835		Food Process Cartridge Grease	69
VN SERIES		Vacuum Nozzle	46
VO-8	880132	Volume Pump for High Viscosity Oil	11
VO-50	880133	Volume Pump for High Viscosity Oil	11
<b>W</b>			
WG-20	803926	Water Dispense Valve	46
<b>Y</b>			
YSE-E1	880455	Paint Spray Pump Unit	53

# Hand Grease Gun, Oil & Grease Lubricator, Waste Oil Drainer, Hose Reel

Yamada Corporation was first established in 1905 as Yamada Seisakusho to manufacture water valves and cocks. We have since been contributing to the development of industry as a whole by producing efficient lubrication and pressure-feed equipment, particularly in the automotive industry.

Diversified market needs in all fields and performance requirement by new material, YAMADA correspond to any of requirement by engineering development based pump technology. We manufacture and distribute pumps specialized to respond demand of material transfer



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Form No.	910416E	Issue	2001.04	Revision	2008.05	3000.5C
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\* The specifications contained herein may be changed at any time without warning.