

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

Yamada Corporation was first established in 1905 as Yamada Selsakusho 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.



Headquarter / Sagamihara plant



■ YOUR LOCAL DISTRIBUTOR

Caution: When selecting products from this catalogue please make sure that you choose the correct version suited to your application and conditions.

YAMADA CORPORATION

International Department
1-1-3, Minami-magome, Ohta-ku, Tokyo, 143-8504, JAPAN
Phone: 81-(0)3-3777-0241
Fax: 81-(0)3-3777-0584
E-mail: intl@yamadacorp.co.jp
Web: www.yamadacorp.co.jp/global

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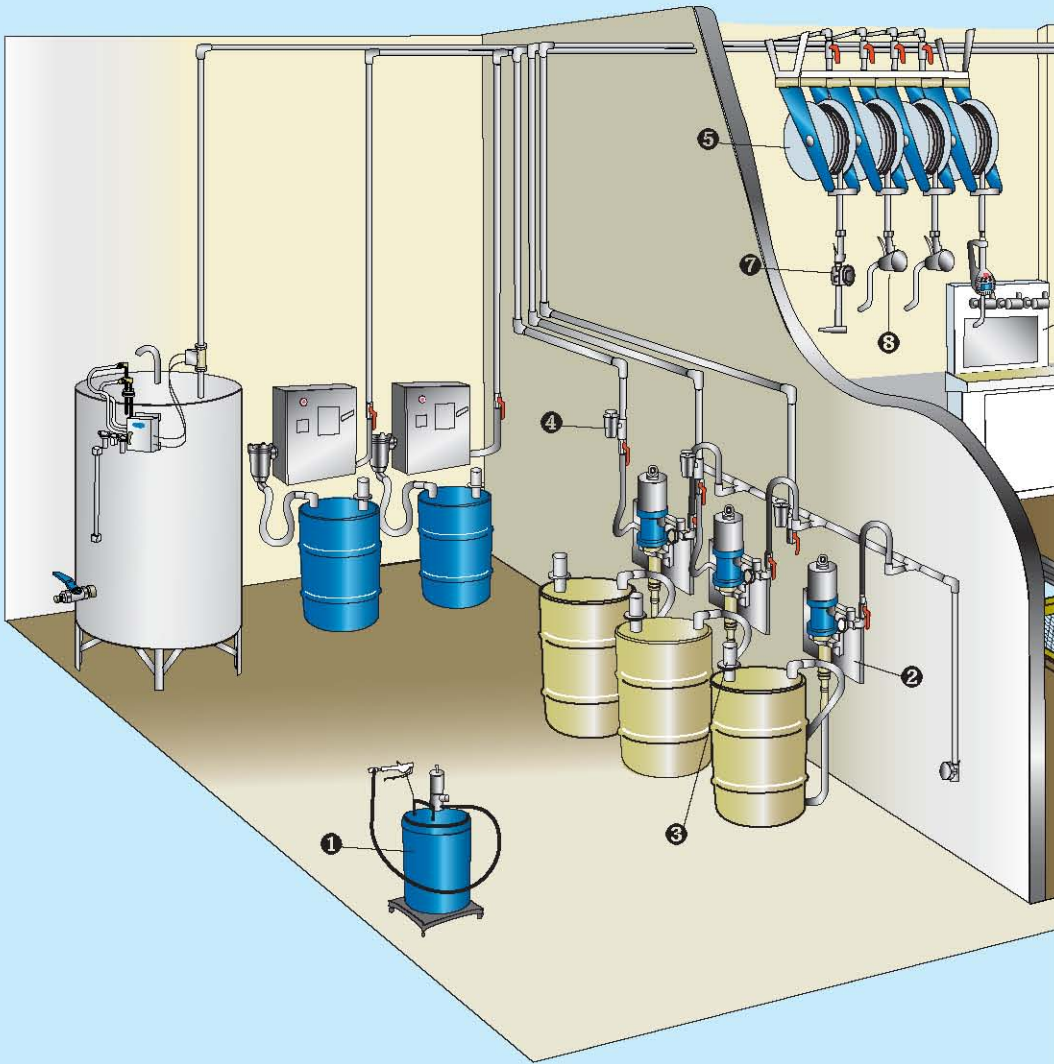
* The specifications contained herein may be changed at any time without warning.

Lubricating Equipment

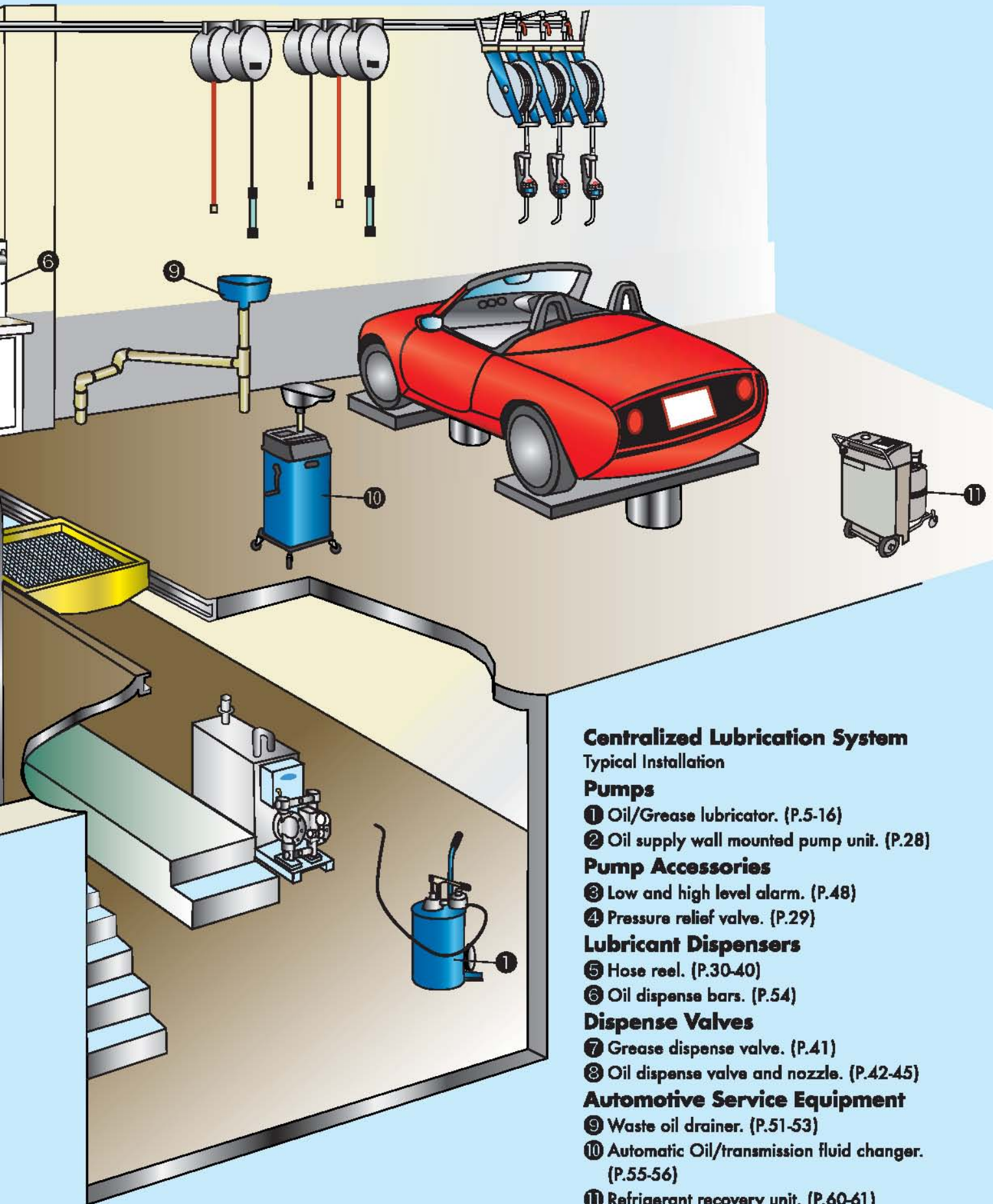


Quality without compromise!

2009/2010



CENTRALIZED LUBRICATION SYSTEM



Centralized Lubrication System
Typical Installation

Pumps

- ① Oil/Grease lubricator. (P.5-16)
- ② Oil supply wall mounted pump unit. (P.28)

Pump Accessories

- ③ Low and high level alarm. (P.48)
- ④ Pressure relief valve. (P.29)

Lubricant Dispensers

- ⑤ Hose reel. (P.30-40)
- ⑥ Oil dispense bars. (P.54)

Dispense Valves

- ⑦ Grease dispense valve. (P.41)
- ⑧ Oil dispense valve and nozzle. (P.42-45)

Automotive Service Equipment

- ⑨ Waste oil drainer. (P.51-53)
- ⑩ Automatic Oil/transmission fluid changer. (P.55-56)
- ⑪ Refrigerant recovery unit. (P.60-61)

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



18L (16KGS) PAIL



200L (180KGS) DRUM

METHODS OF CONTAINING



HAND CONTAIN



420mL/210mL ORIGINAL
CARTRIDGE



85mL ORIGINAL
CARTRIDGE



400g GENERAL CARTRIDGE

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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

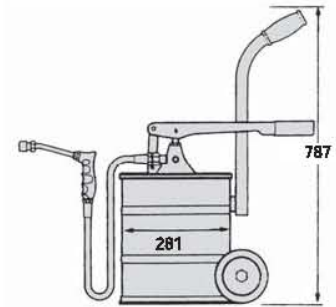


880624 SK-77EXS GREASE BUCKET PUMP

SPECIFICATIONS

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m ³)
16L	3.2g/stroke	25MPa (250kgf/cm ²)	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" X 2m GREASE HOSE	9.6	0.0905

Dimensions (mm)

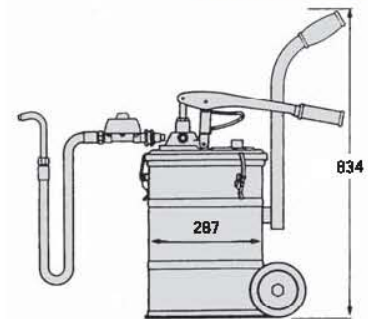


880626 STB-60EXS OIL BUCKET PUMP

SPECIFICATIONS

CONTAINER CAPACITY	OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m ³)
20L	40mL/stroke	802519 VINYL HOSE 2m W/NOZZLE 851942 STB-M OIL METER W/FILTER	10.4	0.1021

Dimensions (mm)

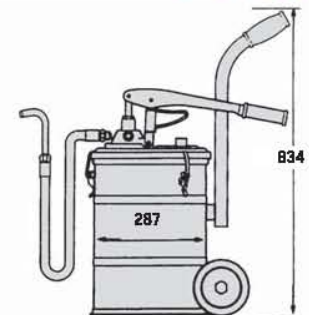


880627 STB-70EXS OIL BUCKET PUMP

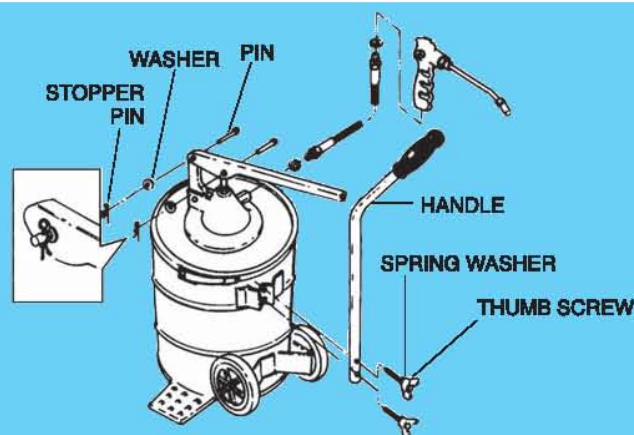
SPECIFICATIONS

CONTAINER CAPACITY	OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m ³)
20L	40mL/stroke	802519 VINYL HOSE 2m W/NOZZLE	9.0	0.1021

Dimensions (mm)



INSTALLATION



HAND-OPERATED LUBRICATORS

Hand Bucket Pumps for Grease

These hand operated grease pumps are fitted to their own 16 or 18 kg grease container. If required they can also fit onto most standard 16 or 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



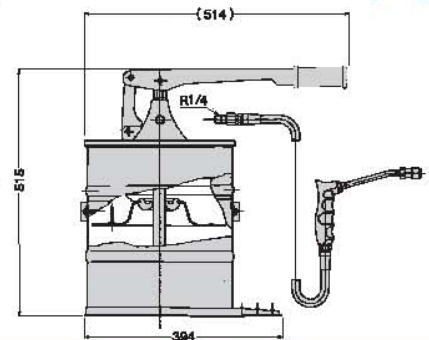
880194

SK-8

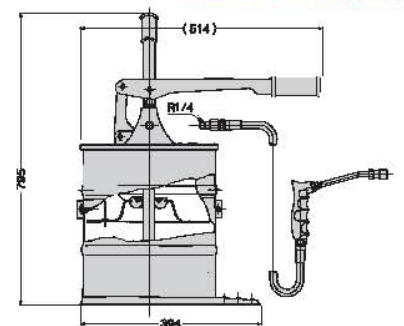


880307 SK-55
GREASE BUCKET PUMP
SPECIFICATIONS

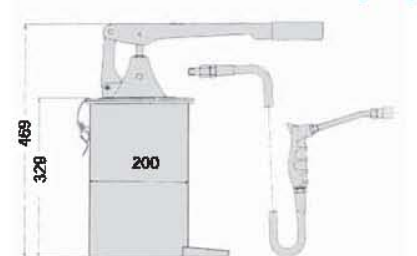
CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m ³)
16L	3.2g/stroke	25MPa (250kgf/cm ²)	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" X 2m 801426 FOLLOWER PLATE	12.2	0.1785

Dimensions (mm)

880308 SK-77
GREASE BUCKET PUMP
SPECIFICATIONS

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m ³)
16L	3.2g/stroke	25MPa (250kgf/cm ²)	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" X 2m 851003 S-20 DOLLY 801426 FOLLOWER PLATE	14.7	0.2034

Dimensions (mm)

880194 SK-8
GREASE BUCKET PUMP
SPECIFICATIONS

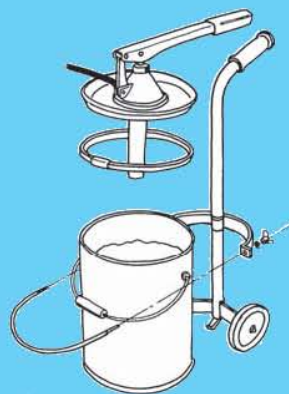
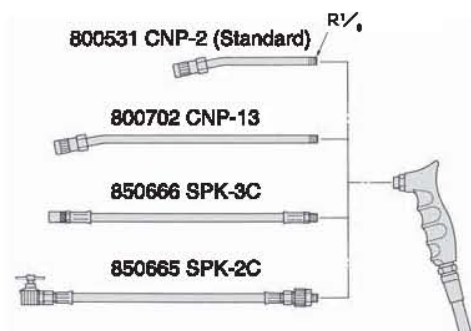
CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT (m ³)
10L	3.2g/stroke	25MPa (250kgf/cm ²)	800601 SK-G GREASE NOZZLE 695046 SK-2M 1/4" X 2m	6.0	0.0457

Dimensions (mm)

INSTALLATION

When refilling the standard grease container.



When fitting to other kinds of grease pall.


EXTENSION NOZZLES


※ See P.66 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



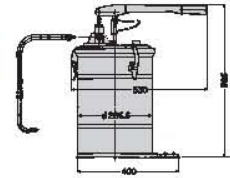
Rotary piston oil meter with 78mm dial registering 4 liters in 1/10-liter graduations.

Max pressure : 4MPa (40kgf/cm²)

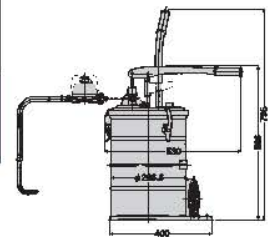
Max Flow : 8L/min

880134 STB-50**OIL HAND BUCKET PUMP****SPECIFICATIONS**

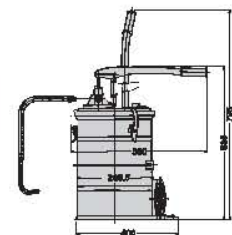
MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
880134	STB-50	20L	40mL/stroke	695453 STB-2MB 1/4" X 2m OIL HOSE W/NOZZLE	7.4	0.1043

Dimensions (mm)**880135 STB-60****OIL HAND BUCKET PUMP****SPECIFICATIONS**

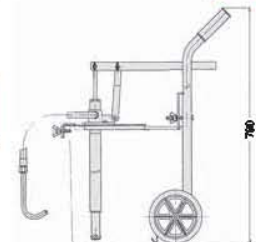
MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
880135	STB-60	20L	40mL/stroke	695453 STB-2MB 1/4" X 2m OIL HOSE W/NOZZLE 851942 STB-M OIL METER 851003 S-20 DOLLY	11.3	0.1938

Dimensions (mm)**880136 STB-70****OIL HAND BUCKET PUMP****SPECIFICATIONS**

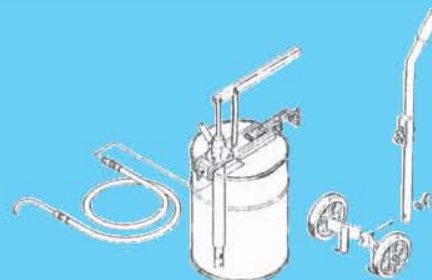
MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
880136	STB-70	20L	40mL/stroke	695453 STB-2MB 1/4" X 2m OIL HOSE W/NOZZLE 851003 S-20 DOLLY	9.9	0.2034

Dimensions (mm)**880571 HOP-20****OIL HAND BUCKET PUMP****SPECIFICATIONS**

MODEL NO.	MODEL	CONTAINER CAPACITY	PUMP OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
880571	HOP-20	20L PAIL	60mL/stroke	695453 STB-2MB 1/4" X 2m OIL HOSE W/NOZZLE 851676 S-10 DOLLY	1.9	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



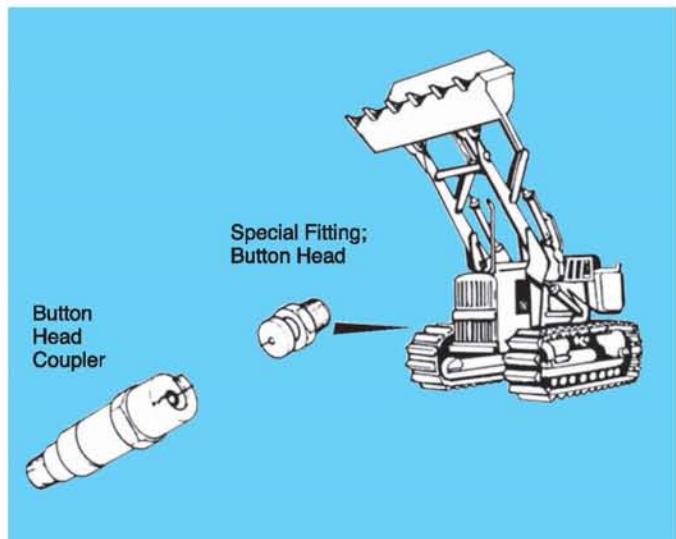
800894 V050-15 Button Head Coupler (Standard) **Dimensions (mm)**



800628 V050-22 Button Head Coupler (Optional)



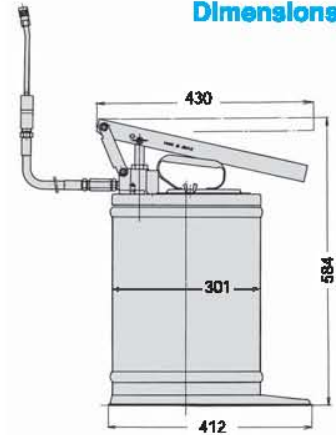
800772 V08-15 Button Head Coupler (Standard)



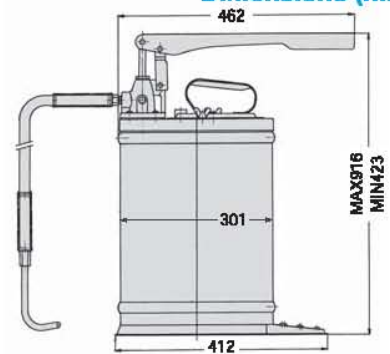
880276 HPG-50**GREASE BUCKET PUMP****SPECIFICATIONS**

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

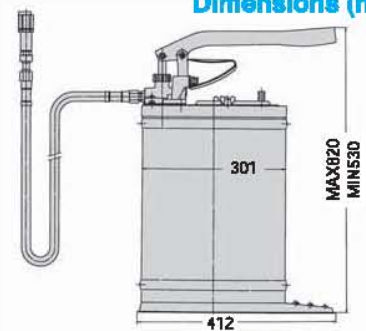
※ Designed for Easy Delivery of Chassis Grease and High Viscosity Oil.
Developed for 12 to 25MPa with 2 Stages Adjustable Leverage.

Dimensions (mm)**880318 LPO-50****OIL BUCKET PUMP****SPECIFICATIONS**

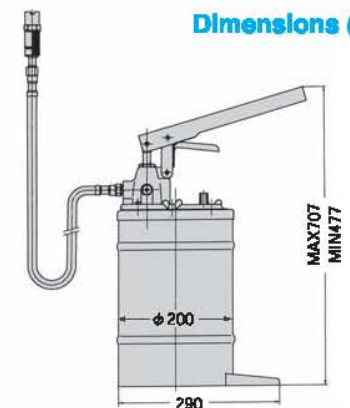
CONTAINER CAPACITY	OUTPUT	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
15L	40mL/stroke	802823 VINYL HOSE 2m W/NOZZLE	8.8	0.0599

Dimensions (mm)**880133 VO-50****VOLUME PUMP****SPECIFICATIONS**

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
15L	24mL/stroke	5MPa (50kgf/cm ²)	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)	MEASUREMENT (m ³)
8L	20mL/stroke	2MPa (20kgf/cm ²)	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 16 or 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
SKR110A50



880873
KPL-55



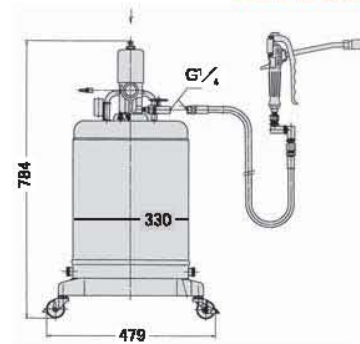
※ Grease container is not included

880870 SKR-55 GREASE LUBRICATOR
SPECIFICATIONS

CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
16 or 18kg PAIL	0.2 ~ 0.7MPa (2 ~ 7kgf/cm ²)	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" X 2.5m GREASE HOSE 800766 CHECK VALVE	13.5	0.1498

PUMP DATA

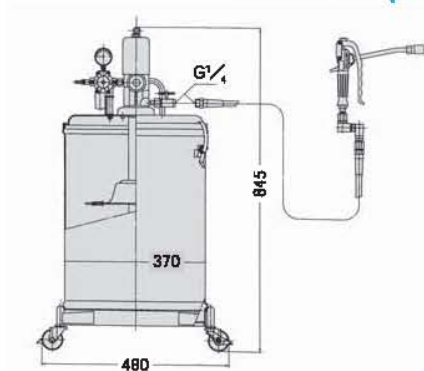
MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
852498	55 : 1	400g/min	38MPa. MAX. (380kgf/cm ²)	212L/min (ANR)

Dimensions (mm)

880877 SKR-66 GREASE LUBRICATOR
SPECIFICATIONS

CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
16 or 18kg PAIL	0.2 ~ 0.7MPa (2 ~ 7kgf/cm ²)	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" X 2.5m GREASE HOSE 802161 FOLLOWER PLATE 801241 SKR-AR AIR REGULATOR 800766 CHECK VALVE	17.6	0.2085

PUMP DATA

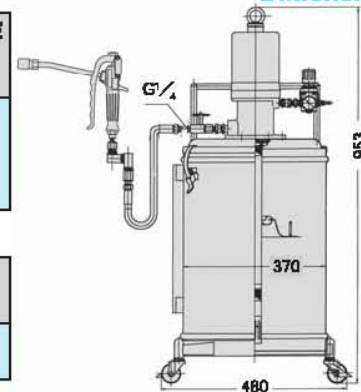
MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
852764	55 : 1	400g/min	38MPa. MAX. (380kgf/cm ²)	212L/min (ANR)

Dimensions (mm)

880631 SKR110A50 HEAVY DUTY GREASE LUBRICATOR
SPECIFICATIONS

CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
16 or 18kg PAIL	0.2 ~ 0.7MPa (2 ~ 7kgf/cm ²)	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" X 2.5m GREASE HOSE 803481 FOLLOWER PLATE 802553 AR-110A AIR REGULATOR 800431 CHECK VALVE	25.0	0.7866

PUMP DATA

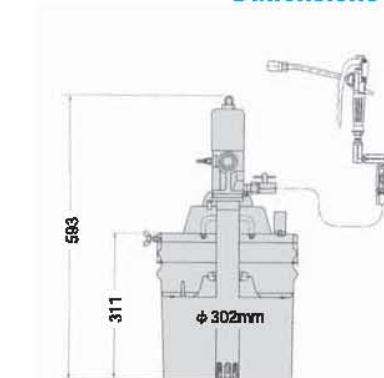
MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
851779	50 : 1	1,200g/min	30MPa. MAX. (300kgf/cm ²)	320L/min (ANR)

Dimensions (mm)

880873 KPL-55 STANDARD PAIL LUBRICATOR KIT
SPECIFICATIONS

AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
0.2 ~ 0.7MPa (2 ~ 7kgf/cm ²)	851985 HPG-G H.P.GREASE DISPENSE VALVE 695034 SKR-2.5M 1/4" X 2.5m GREASE HOSE 831162 PAIL COVER 802161 FOLLOWER PLATE	9.4	0.1980

PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
852765	55 : 1	400g/min	38MPa. MAX. (380kgf/cm ²)	212L/min (ANR)

Dimensions (mm)


AIR-OPERATED LUBRICATORS

Oil Lubricators

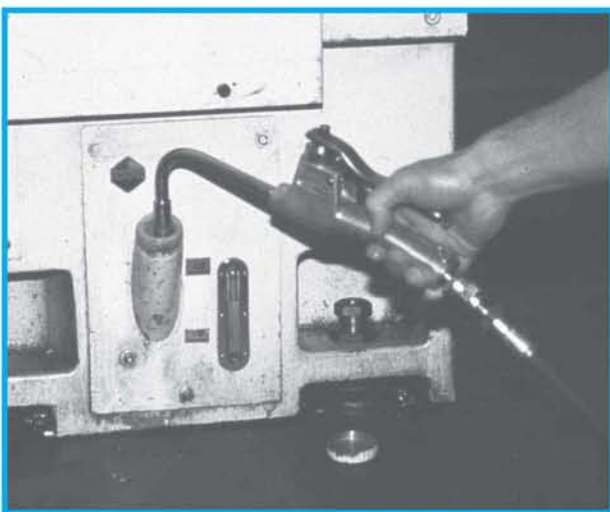
65 series 1.8:1 ratio and high volume 110 series 5:1 ratio pumps are available in this series. They come complete with a large cabinet and a stable four caster base providing maximum portability and versatility. They come complete with an oil meter to measure oil volume as well as other accessories.



880267
SGR-55



880635
SGR110A5

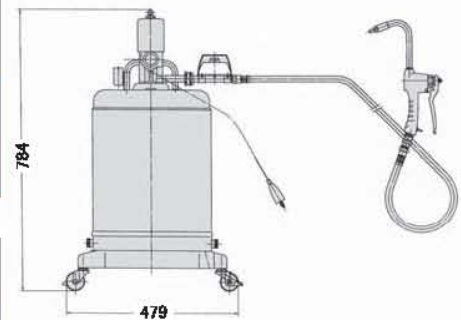


880267 SGR-55
OIL LUBRICATOR
SPECIFICATIONS

CONTAINER CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
20L	0.2 ~ 0.7MPa (2 ~ 7kgf/cm ²)	850206 SGR-5TG L.P.OIL CONTROL VALVE 695062 SGR-55-1.5M 3/8" X 1.5m OIL HOSE 851942 STB-M OIL METER 682985 PAIL CAN	17.0	0.1613

PUMP DATA

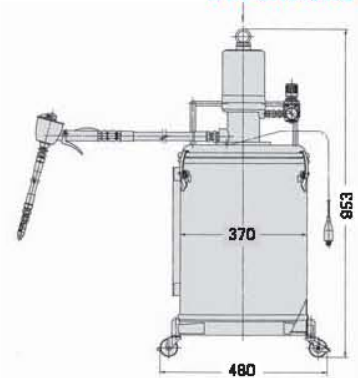
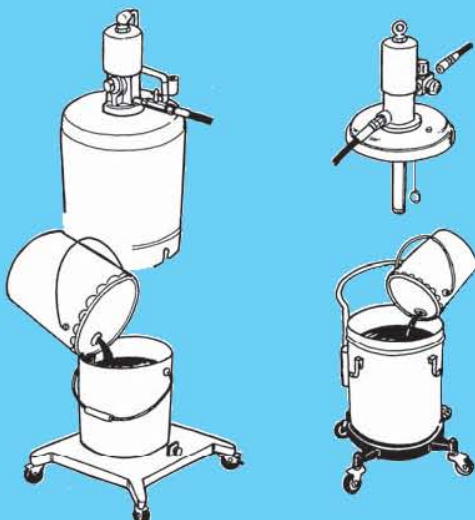
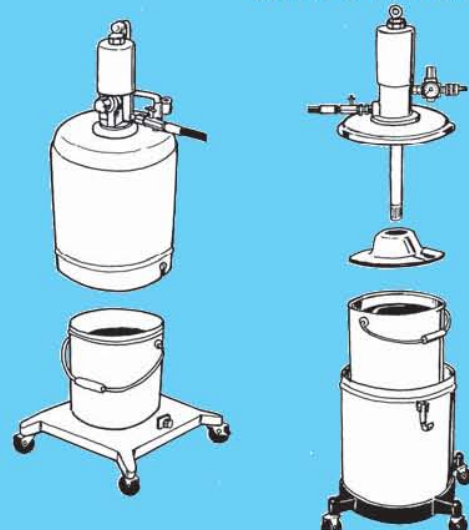
MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
850792	1.8 : 1	7L/min	1.2MPa (12kgf/cm ²)	130L/min (ANR)

Dimensions (mm)

880635 SGR110A5
OIL LUBRICATOR
SPECIFICATIONS

CONTAINER CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
20L	0.2 ~ 0.7MPa (2 ~ 7kgf/cm ²)	801428 LBM-G GRIP METER 801195 NDN-H NON-DRIP NOZZLE FLEXIBLE 804553 OIL-SJ SWIVEL JOINT 695700 110H-3M 1/2" X 3m OIL HOSE 802553 AR-110A AIR REGULATOR	27.5	0.2374

PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
851755	5 : 1	11L/min	3.5MPa (35kgf/cm ²)	390L/min (ANR)

Dimensions (mm)

INSTALLATION
OIL LUBRICATOR
880267 SGR-55
880635 SGR110A5

GREASE LUBRICATOR
880870 SKR-55
880877 SKR-66
880631 SKR110A50


AIR-OPERATED LUBRICATORS

Bearing Grease Packer

The portable air operated bearing grease packer, GP-85 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

BEARING GREASE PACKER

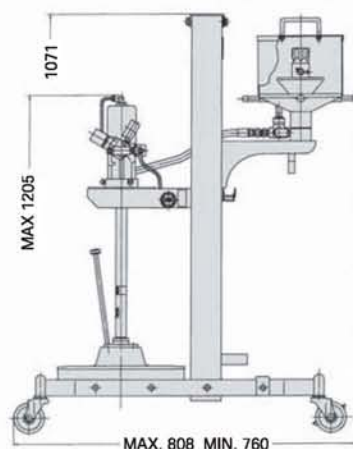
SPECIFICATIONS

CONTAINER CAPACITY	AIR SUPPLY PRESSURE	ACCESSORIES	NET WEIGHT (kg)	MEASUREMENT (m ³)
16 of 18kg PAIL	0.2 ~ 0.7MPa (2 ~ 7kgf/cm ²)	802629 INDUCTOR PLATE 851713 PUMP UNIT	48.0	0.1896

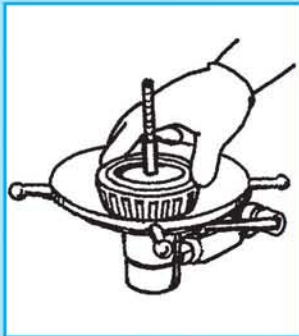
PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	OUTPUT PRESSURE	MAX AIR CONSUMPTION
851713	40 : 1	350g/min	23MPa (230kgf/cm ²)	130L/min (ANR)

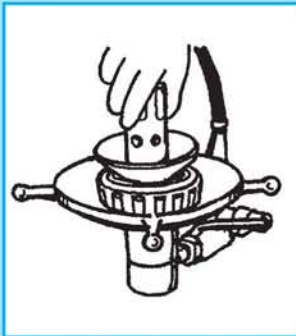
Dimensions (mm)



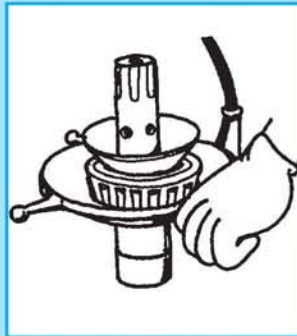
OPERATING INSTRUCTIONS



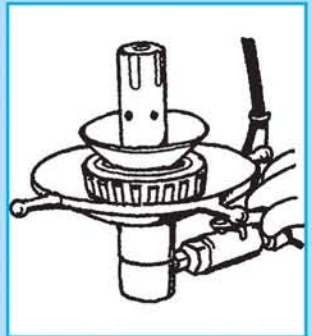
1. After washing and inspecting, set the bearing on the under-corn correctly



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.

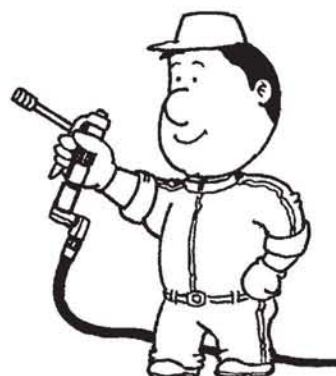
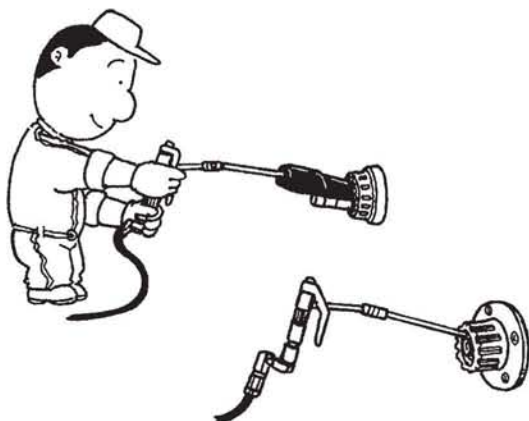


COMPONENTS

	MODEL NO	DESCRIPTION
①	802242	GP-G DISPENSE VALVE
②	695286	GP-H H.P. HOSE
③	802241	GP-ML NOZZLE (M)
④	802240	GP-MS NOZZLE (S)
⑤	802239	GP-ST STRAIGHT NOZZLE

OPTIONAL NOZZLES

	MODEL NO	DESCRIPTION
⑥	802416	GP-HS NOZZLE (S)
⑦	802417	GP-HL NOZZLE (L)



ELECTRIC DRIVEN GREASE LUBRICATORS

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.

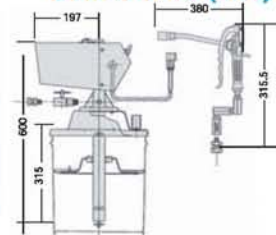
880639 KPL-24

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 ³)
880639	KPL-24	16 or 18kg PAIL	DC24V 100~300W 2~7.5A	120 mL/min	28MPa (280kgf/cm ²)	852164 HPG-G13 H.P. GREASE DISPENSE VALVE 803085 FOLLOWER PLATE 802704 POWER CORD 685940 UNION ADAPTER	12	0.0494

Dimensions (mm)



880899/881081

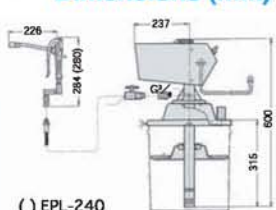
EPL-100/EPL-240

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 ³)
880899	EPL-100	16 or 18kg PAIL	AC100V 200W 1~3A	190 mL/min	28MPa (280kgf/cm ²)	852164 HPG-G13 H.P. GREASE DISPENSE VALVE 695034 SKR-2.5M H.P. GREASE HOSE 1/4"X 2.5M 803085 FOLLOWER PLATE 802493 POWER CORD 5M	13	0.0494
881081	EPL-240		AC240V 200W 1~3A					

Dimensions (mm)



() EPL-240

Accessories

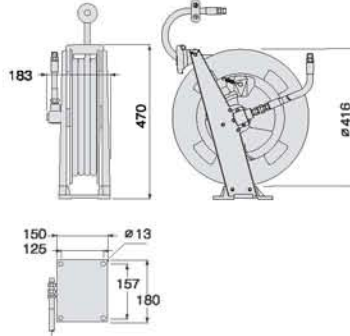
852077 SR-3C10K HOSE REEL



SPECIFICATIONS

MODEL NO.	MODEL	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NET WEIGHT (kg)	MEASUREMENT (m ³)
		I.D.×LENGTH	OUTLET	I.D.×LENGTH	OUTLET			
852077	SR-3C10K	3/8"×10M	R3/8"	3/8"×1.5M	R3/8"	35MPa	17	0.066

Dimensions (mm)



695303 H.P. GREASE HOSE (3/8"×10m)



※ 852164 HPG-G13 Grease gun is not included.

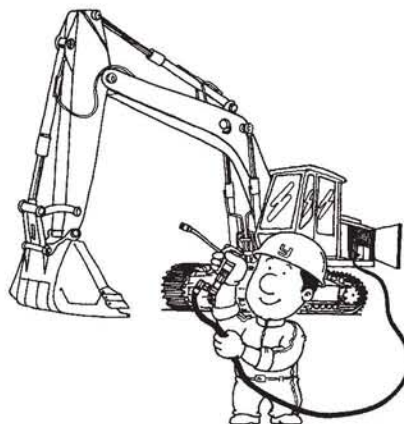
851003 S-20 DOLLY



802335 KPL-55C CASTER



683239 KPL-BK COVER



AIR-OPERATED GREASE SUPPLY PUMPS

Grease Supply Pumps

The SKR series 55:1 series pumps come with different sized pump shanks to suit any grease container. The DR-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.



SKR Series 55 : 1
NAKED PUMP



SKR Series 55 : 1
PUMP SET



DR-110 Series 50 : 1
851783



DR-110A50



SKR Series 55 : 1 NAKED PUMP

SPECIFICATIONS

MODEL NO.	MODEL	PUMP RATIO	SHANK LENGTH (mm)	SUITABLE CONTAINER	SUCTION TUBE O.D. (φ mm)	MAX FREE FLOW	MAX OUTPUT PRESSURE	MAX AIR CONSUMPTION	ACCESSORIES	NET WEIGHT (kg)
852498	SKR-55PA	55 : 1	430	for SKR-55	38	320mL/min	38.5MPa	250 L/min(ANR)	681170 SILENCER	3.8
852499	SKR-510P55		510							4.2
852500	SKR-725P55		725	55kg (120 Lbs)						5.8
852501	SKR-850P55		850	180kg (400 Lbs)						6.8
852762	SKR-950P55		950							7.6

SKR Series 55 : 1 PUMP SET

SPECIFICATIONS

MODEL NO.	MODEL	PUMP RATIO	SHANK LENGTH (mm)	SUITABLE CONTAINER	SUCTION TUBE O.D. (φ mm)	MAX FREE FLOW	MAX OUTPUT PRESSURE	MAX AIR CONSUMPTION	ACCESSORIES	NET WEIGHT (kg)
880844	SKR-430A55	55 : 1	430	for SKR-55	38	320mL/min	38.5MPa	250 L/min(ANR)	802159 PUMP FLANGE 800766 CHECK VALVE 681170 SILENCER	4.5
880845	SKR-510A55		510							5.0
880846	SKR-725A55		725	55kg (120 Lbs)						6.6
880847	SKR-850A55		850	180kg (400 Lbs)						7.6

851783 DR-110A50 PUMP SET

SPECIFICATIONS

MODEL NO.	MODEL	PUMP RATIO	SHANK LENGTH (mm)	SUITABLE CONTAINER	SUCTION TUBE O.D. (φ mm)	MAX FREE FLOW	MAX OUTPUT PRESSURE	MAX AIR CONSUMPTION	ACCESSORIES	NET WEIGHT (kg)
851783	DR-110A50	50 : 1	870	180kg (400 Lbs)	35	1000mL/min	35MPa	650 L/min(ANR)		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, 80g)
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-88 or SKR110A50 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 suction 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 waste 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.

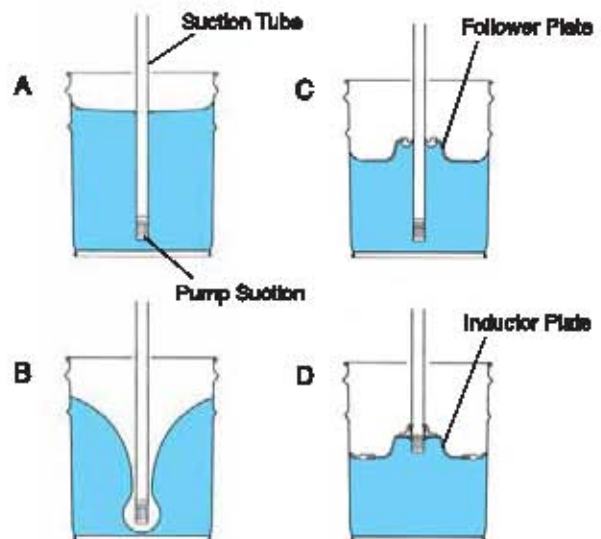
Please contact Yamada or your distributor for any enquires.

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 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. X 300mm O.D.

802161



801426

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

801426



800413

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

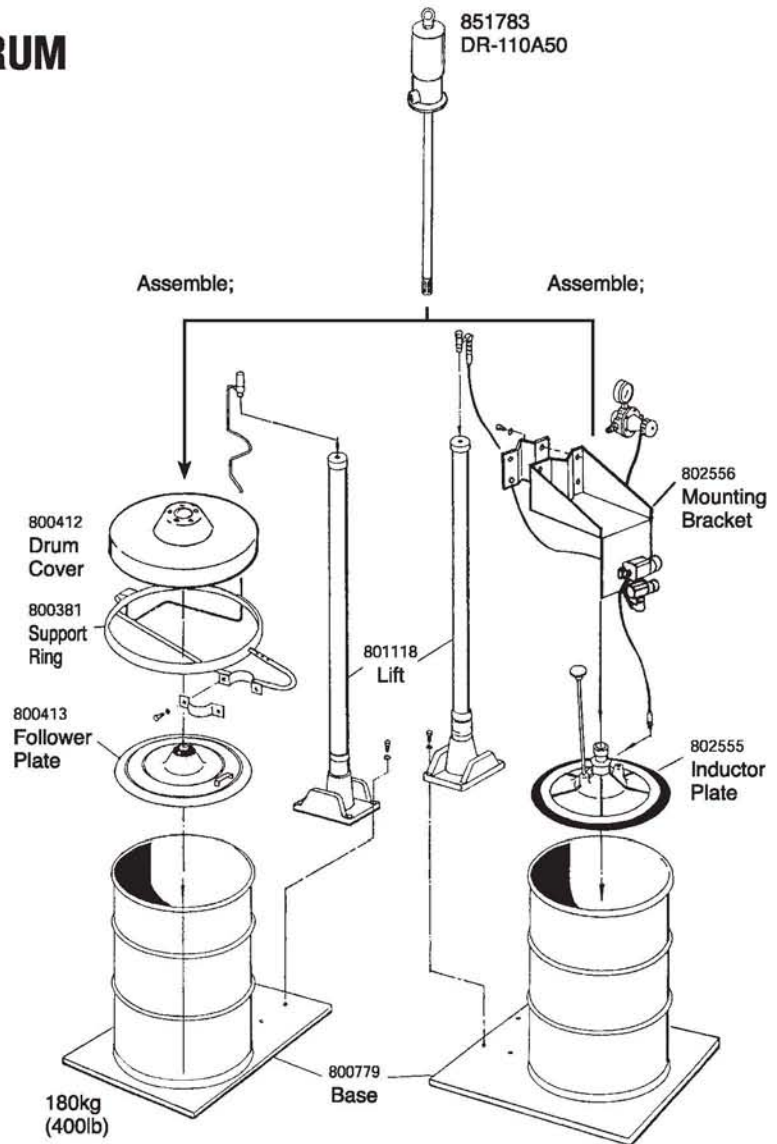
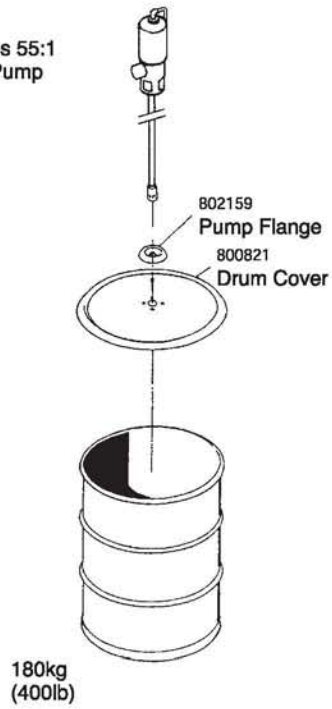
800413



INSTALLATION

FOR 180Kgs / 400Lbs DRUM

65 Series 55:1
Naked Pump



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 (L/min)	ACCESSORIES	NET WEIGHT (kg)
852628	DR-50A1	1 : 1	0.2~0.7MPa (2~7kgf/cm ²)	52	803488 BUNG LOCK ADAPTER	5.0
852633	DR-50A3	3 : 1		24	803488 BUNG LOCK ADAPTER	5.4
880966	DR-90A3			22	803488 BUNG LOCK ADAPTER	4.5
881013	DR-90A5	5 : 1		17	804270 BUNG LOCK ADAPTER	8.5
851754	DR-110A5			11	802857 BUNG LOCK ADAPTER	12.0
850160	DR-160A10	10 : 1		12		17.0
851826	DR-110A15	15 : 1		3.8		9.0

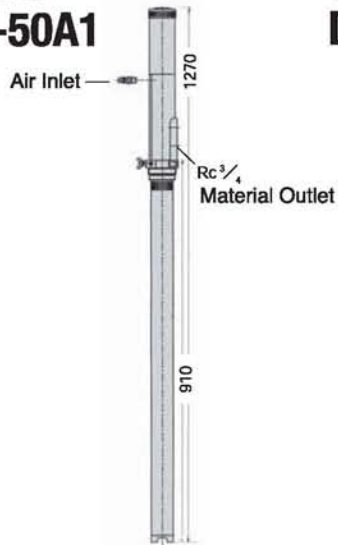
PUMP DATA

PUMP SERIES	50		90		110		160
	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 ²		28.3cm ²		47.5cm ²		100.5cm ²
PISTON STROKE	89mm		89mm		60mm		100mm
MAX AIR CONSUMPTION	470L/min (ANR)		700L/min (ANR)		600L/min (ANR)		1,300L/min (ANR)

Dimensions (mm)

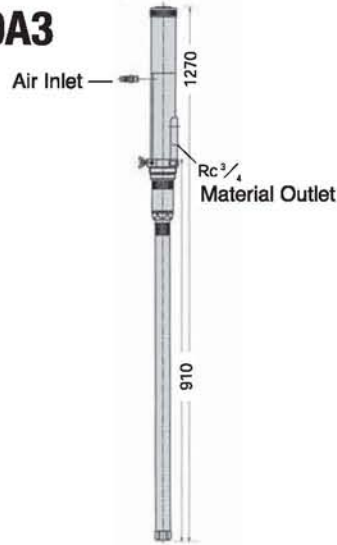
852628

DR-50A1



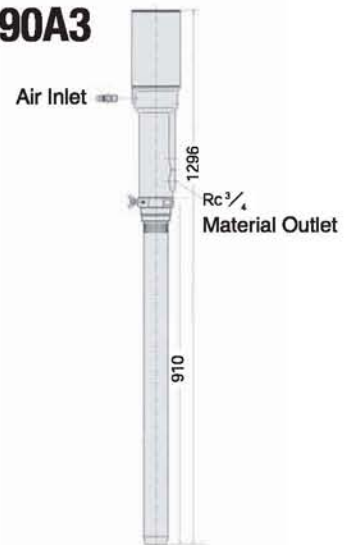
852633

DR-50A3



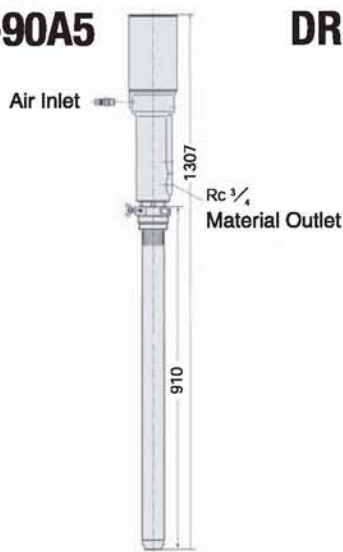
880966

DR-90A3



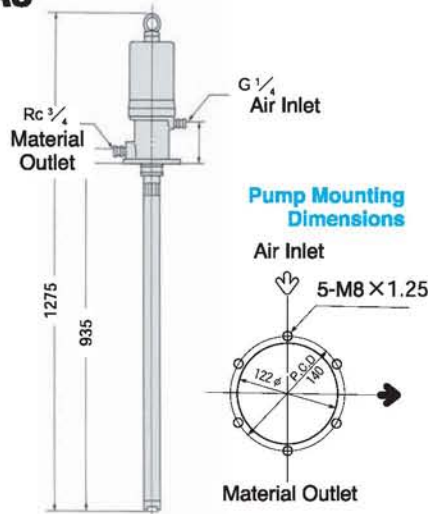
881013

DR-90A5



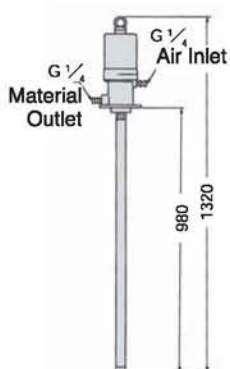
851754

DR-110A5

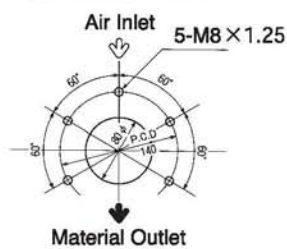


851826

DR-110A15

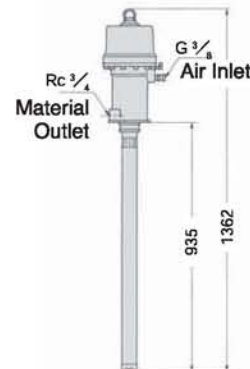


Pump Mounting Dimensions

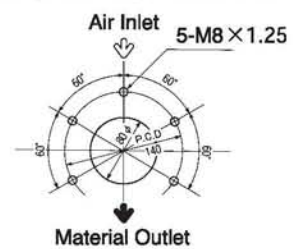


850160

DR-160A10



Pump Mounting Dimensions



Oil Supply Siphon Pump



852629
SH-50A1



852634
SH-50A3



880967
SH-90A3



881014
SH-90A5



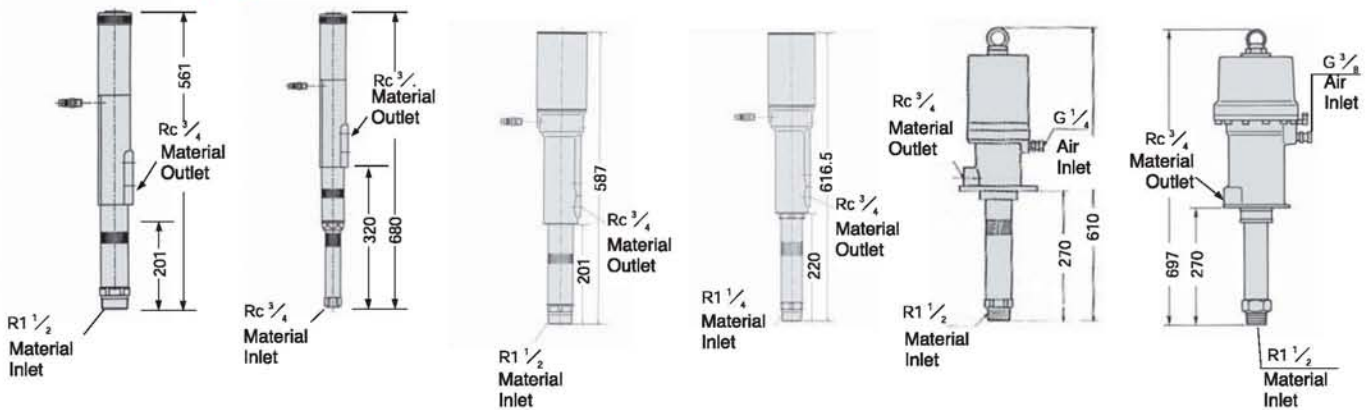
851753
SH-110A5



850097
SH-160A10



Dimensions (mm)



SPECIFICATIONS

MODEL NO.	MODEL	PUMP RATIO	AIR SUPPLY PRESSURE	MAX FREE FLOW (L/min)	NET WEIGHT (kg)
852629	SH-50A1	1 : 1	0.2~0.7MPa (2~7kgf/cm ²)	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 ²		28.3cm ²		47.5cm ²		100.5cm ²
PISTON STROKE	89mm		89mm		60mm		100mm
MAX AIR CONSUMPTION	470L/min (ANR)		700L/min (ANR)		600L/min (ANR)		1,300L/min (ANR)

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



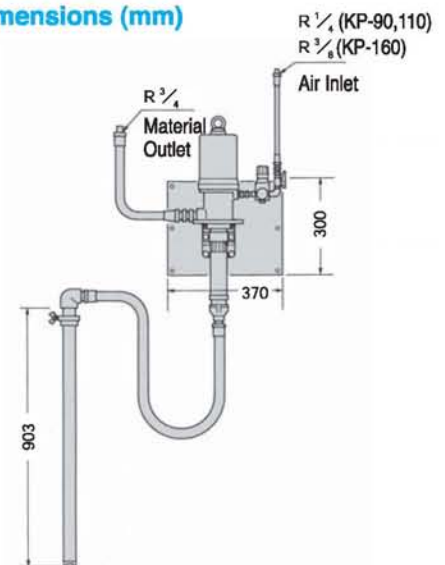
880634
KP-110



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

850126 **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.

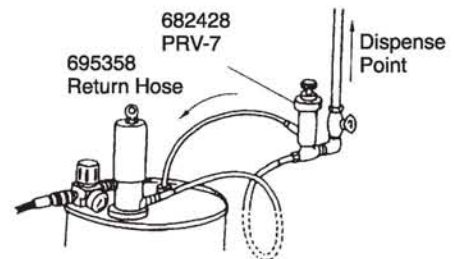


850126

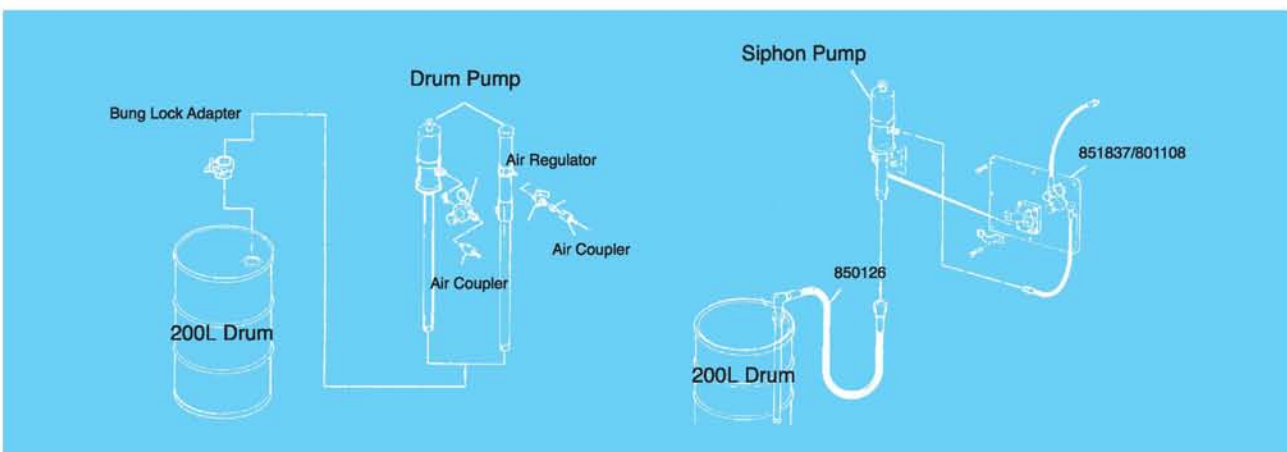
Pressure Relief Valve

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.



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

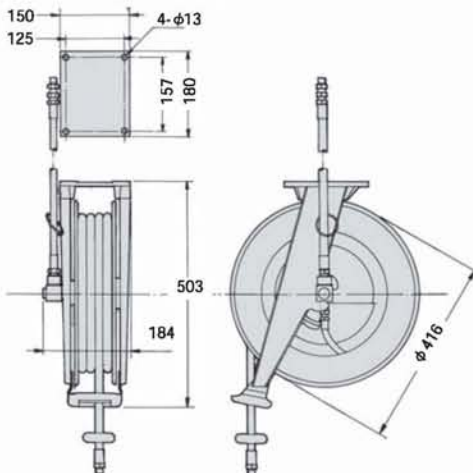
851243
SR-3C10

851245
SR-3C15

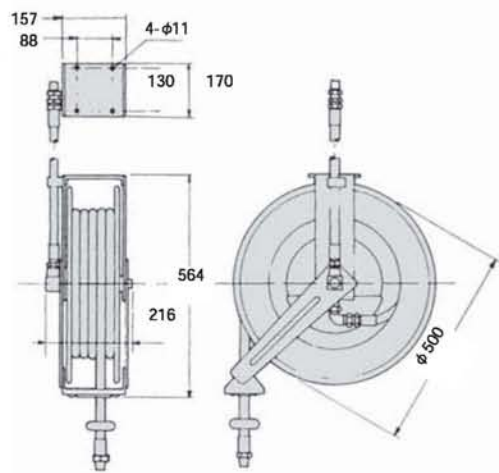


Dimensions (mm)

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



SR-3C15



SPECIFICATIONS

MODEL NO.	MODEL	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)	MEASUREMENT (m ³)
		I.D.×LENGTH	OUTLET	I.D.×LENGTH	INLET			
851240	SR-2C5	1/4"×5 m	G1/4	1/4"×1 m	R1/4	35MPa (350kgf/cm ²)	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	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

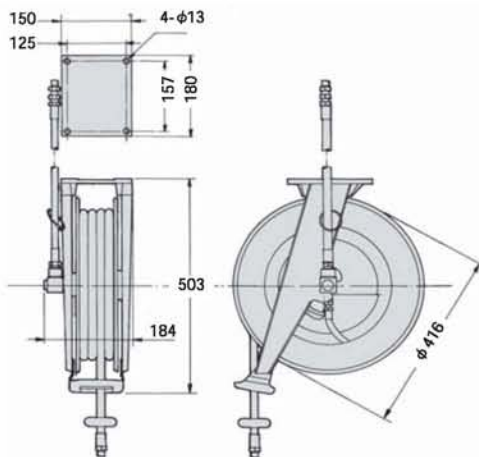
851251
SR-4G10

851252
SR-4G15

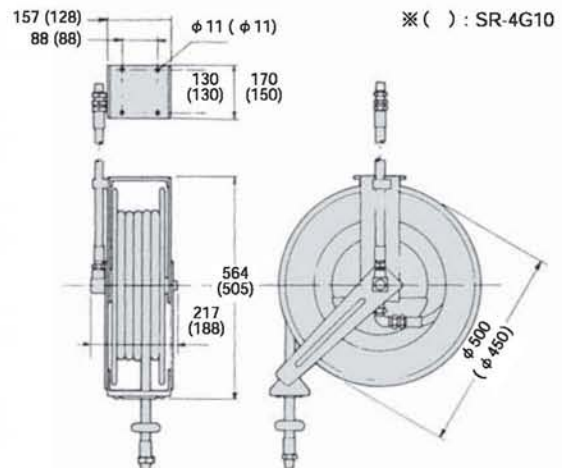


Dimensions (mm)

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



SR-4G10, SR-4G15



SPECIFICATIONS

MODEL NO.	MODEL	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)	MEASUREMENT (m ³)
		I.D.×LENGTH	OUTLET	I.D.×LENGTH	INLET			
851246	SR-3G5	3/8"×5 m	R3/8	3/8"×1m	R3/8	7MPa (70kgf/cm ²)	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 ²)
		I.D. × LENGTH	OUTLET			
851157	SR-2A10	φ 8 × 10 m	Rc1/4	1.5MPa (15kgf/cm ²)	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 ²)
		I.D. × LENGTH	OUTLET			
851163	SR-4W10	φ 11.2 × 10 m	Rc1/2	0.7MPa (7kgf/cm ²)	14.9	0.061
851164	SR-4W15	φ 11.2 × 15 m			15.9	0.061

H.P. Hot Water Hose Reel SR Series

These hose reels are designed for high pressure hot water.

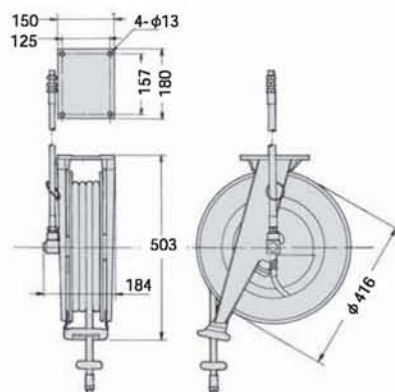


SPECIFICATIONS

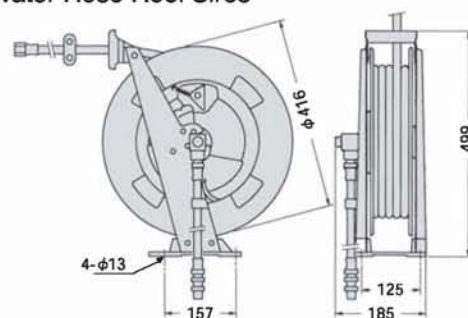
MODEL NO.	MODEL	SERVICE HOSE		WORKING PRESSURE	NETWEIGHT (kgs)	MEASUREMENT (m ²)
		I.D. × LENGTH	OUTLET			
851165	SR-2WH10	φ 6.3 × 10 m	G1/4	10.5MPa (105kgf/cm ²)	15.0	0.075
851166	SR-3WH10	φ 9.5 × 10 m	G3/8		16.5	0.075
851167	SR-2WH15	φ 6.3 × 15 m	G1/4		16.1	0.075
851168	SR-3WH15	φ 9.5 × 15 m	G3/8		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

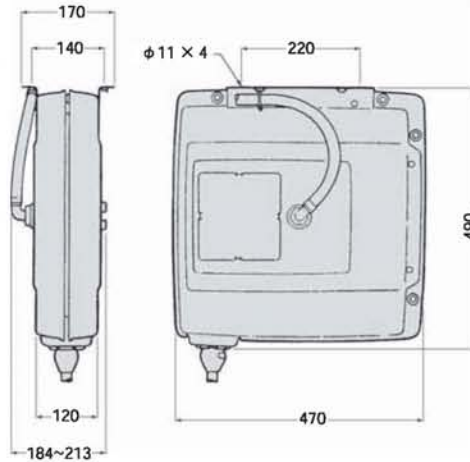


N800683
NHR-3WA10

N800883
NHR-3WA15

 N801283
NHR-4G8

Dimensions (mm)



SPECIFICATIONS

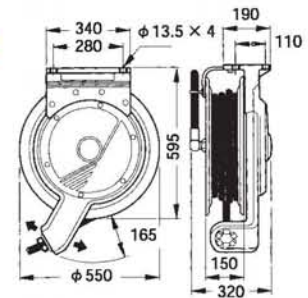
MODEL NO.	MODEL	MEDIA	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)
			I.D. × LENGTH	OUTLET	I.D. × LENGTH	INLET		
N800683	NHR-3WA10	AIR / WATER	3/8" × 10 m	R3/8	1/2" × 1m	R1/2	1.5MPa	23.0
N800883	NHR-3WA15		3/8" × 15 m					24.0
N801283	NHR-4G8	OIL	1/2" × 8 m	G1/2		G1/2	7.5MPa	27.0
N801483	NHR-2C8	GREASE	1/4" × 8 m	G1/4	1/4" × 1m	G1/4	35MPa	30.0
N801883	NHR-2C15		1/4" × 15 m					25.0

High Capacity Hose Reel NSHR Series

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



Dimensions (mm)



SPECIFICATIONS

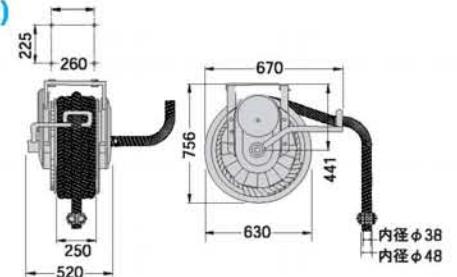
MODEL NO.	MODEL	MEDIA	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)
			I.D.×LENGTH	OUTLET	I.D.×LENGTH	INLET		
N810284	NSHR-4WA20	AIR / WATER	1/2" × 20 m	R1/2	1/2" × 1m	R1/2	1.5MPa	27.6
N810484	NSHR-6WA15	AIR / WATER	3/4" × 15 m		3/4" × 1m		1.2MPa	28.2
N810684	NSHR-25WA10	AIR / WATER	1" × 10 m		1" × 1m		1.2MPa	30.1
N812884	NSHR-4G15	OIL	1/2" × 15 m	G1/2	1/2" × 1m	G1/2	5.0MPa	26.8
N811884	NSHR-4G20	OIL	1/2" × 20 m	G1/2	1/2" × 1m	G1/2	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	30.8
N811684	NSHR-3HW25	HOT WATER	3/8" × 25 m	G3/8	3/8" × 1m	G3/8	18MPa	35.8

Vacuum Hose Reel HVR 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

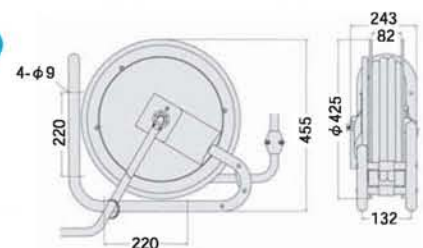
MODEL NO.	MODEL	MEDIA	SERVICE HOSE	CONNECTING HOSE	WORKING PRESSURE	NETWEIGHT (kg)
			I.D.×LENGTH	I.D.×LENGTH		
V310281	HVR38-10	DUST / FUME	38mm × 10 m	38mm × 1 m	81KPa(607mmHg)	32.0

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)



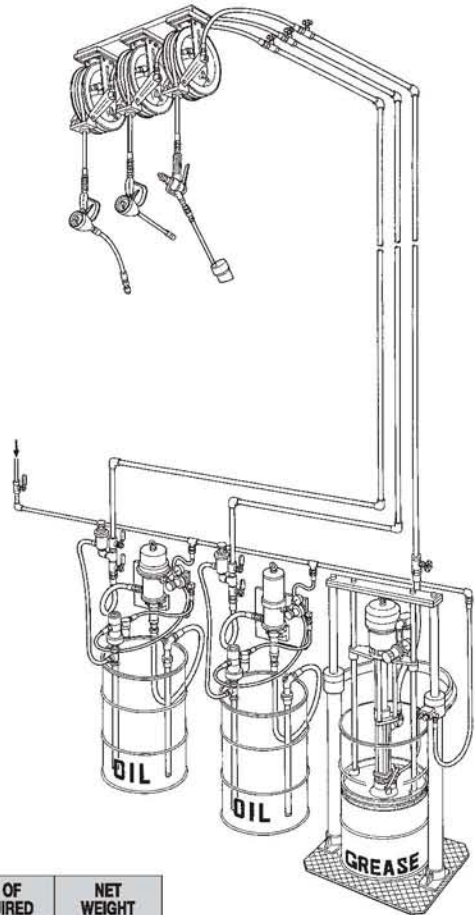
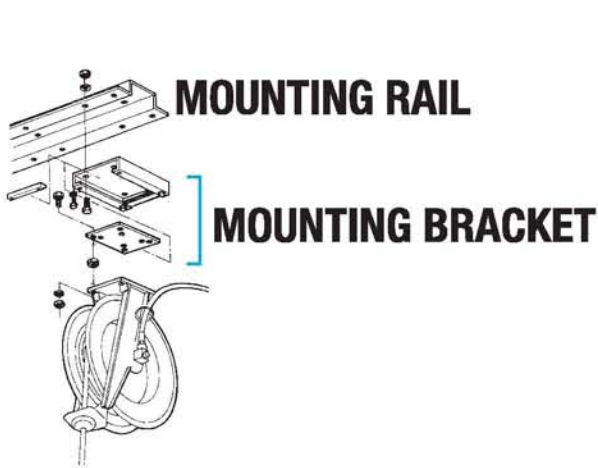
SPECIFICATIONS

MODEL NO.	MODEL	MEDIA	SERVICE HOSE		CONNECTING HOSE		WORKING PRESSURE	NETWEIGHT (kg)
			I.D.×LENGTH	OUTLET	I.D.×LENGTH	INLET		
N804493	NSR-4W10S	COLD/HOT WATER (165°C)	1/2" × 10 m	G1/2	1/2" × 1 m	G1/2	0.6MPa(1.5MPa/Max)	15.0
N803493	NSR-3HW15S	COLD/HOT WATER (180°C)	3/8" × 15 m	G3/8	3/8" × 1 m	G3/8	18MPa	16.6

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, HVR 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, HVR SERIES	654		
3	704441	R-3	SR, NHR, NSR SERIES	900	6	9.2
	713510	MOUNTING RAIL	NSHR, HVR 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, HVR SERIES



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 shape design, giving superior balance, torque, and evenness during the whole movement.

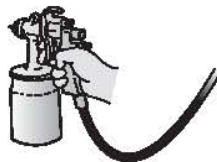
E
The Body has a baked and double layered coating giving increased strength and durability.

F
The Mounting Bracket is simple and safe to use.

APPLICATIONS



Disc sander



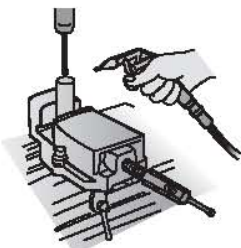
Air spray



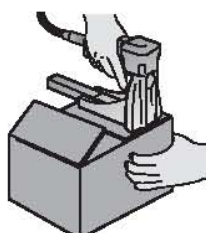
Remote controller



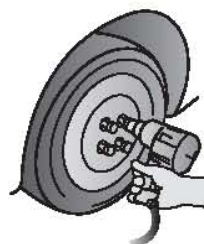
Drill



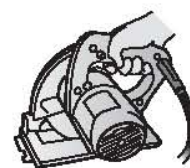
Air gun



Stapler



Impact wrench



Cutter

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.



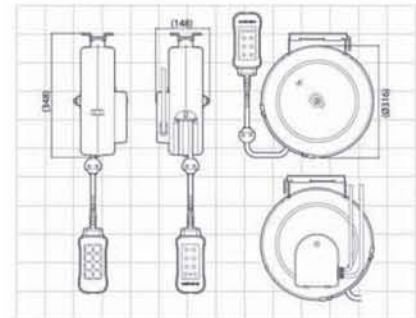
853874
CRD-104
Move Up/Down and
Left/Right etc.
a total of 2 systems
can be operated
using 4 circuits
equal to 6-lines.



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

MODEL NO.	MODEL	MEDIA	RATING		SERVICE CORD			INLET CORD	NET WEIGHT (kg)
			VOLTAGE	CURRENT	CROSS SECTION AREA	NUMBER OF CORES	LENGTH		
853873	CRD-102	Digital control	AC/DC24V	0.5A	0.75	4	10 m	0.5mm ² × 1m	6.0
853874	CRD-104	Digital control	AC/DC24V	0.5A	0.75	4	10 m	0.5mm ² × 1m	6.0
853875	CRD-106	Digital control	AC/DC24V	0.5A	0.75	4	10 m	0.5mm ² × 1m	6.0

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

CRE Series Power Cable Reel

CRS Series Remote Controller Reel



853815
CRE-101



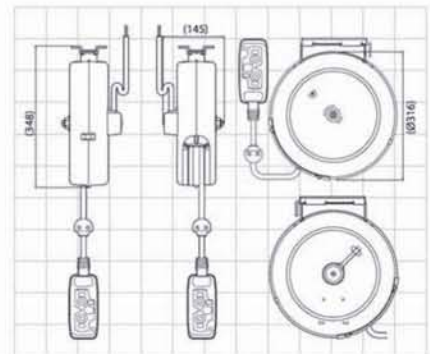
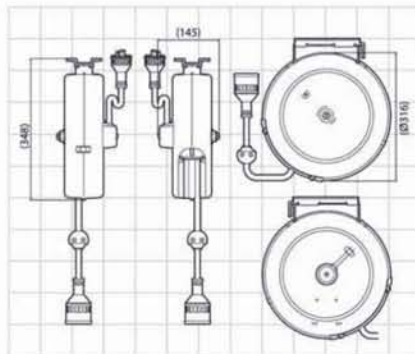
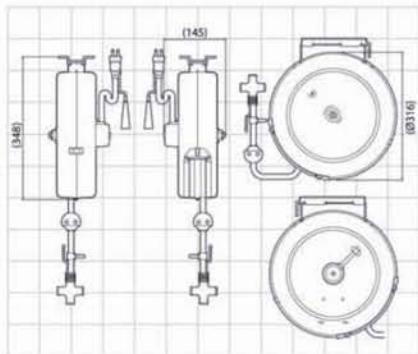
853818
CRE-102



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

MODEL NO.	MODEL	MEDIA	RATING		SERVICE CORD			INLET CORD	NET WEIGHT (kg)
			VOLTAGE	CURRENT	CROSS SECTION AREA	NUMBER OF CORES	LENGTH		
853815	CRE-101	100V	AC125V	6A	1.25	3	10 m	1.25mm ² X 1m	5.4
853818	CRE-102	200V	AC250V	6A	2.0	4	10 m	2.00mm ² X 1m	6.3
853816	CRS-10A	Remote control	AC250V	6A	2.0	4	10 m	2.00mm ² X 1m	6.2
853817	CRS-10D	Remote control	AC/DC24V	0.5A	0.75	4	10 m	0.75mm ² X 1m	5.2

COMPACT REEL Series

Air Hose Reel

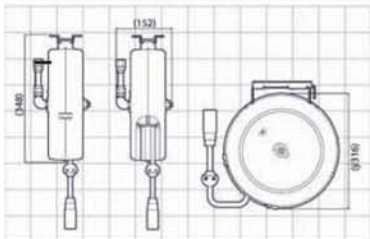


853811
CRA-102

853812
CRA-102S

853813
CRA-103

853814
CRA-103S

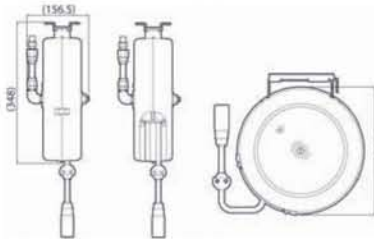


Water Hose Reel



854031
CRW-102

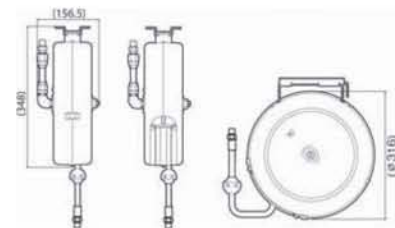
854032
CRW-103



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

MODEL NO.	MODEL	MEDIA	MAX AIR PRESSURE (MPa)	SERVICE HOSE			INLET HOSE	NET WEIGHT (kg)
				INTERNAL DIA.	LENGTH	OUTLET		
853811	CRA-102	AIR	1.5	φ 6.5	10 m	R1/4	φ 6.5×1m	4.5
853812	CRA-102S	AIR (Fire resistant hose)	1.5	φ 6.3	10 m	R1/4	φ 6.3×1m	4.5
853813	CRA-103	AIR	1.5	φ 8.5	10 m	R3/8	φ 8.5×1m	4.7
853814	CRA-103S	AIR (Fire resistant hose)	1.5	φ 8.3	10 m	R3/8	φ 8.3×1m	4.7
854031	CRW-102	WATER	0.7	φ 6.5	10 m	Rc1/4	φ 6.5×1m	4.5
854032	CRW-103	WATER	0.7	φ 8.5	10 m	Rc3/8	φ 8.5×1m	4.7
854030	CRG-062	OIL	2.5	φ 6.3	6 m	Rc1/4	φ 6.3×1m	5.7

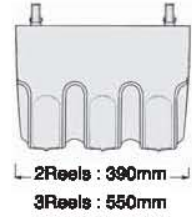
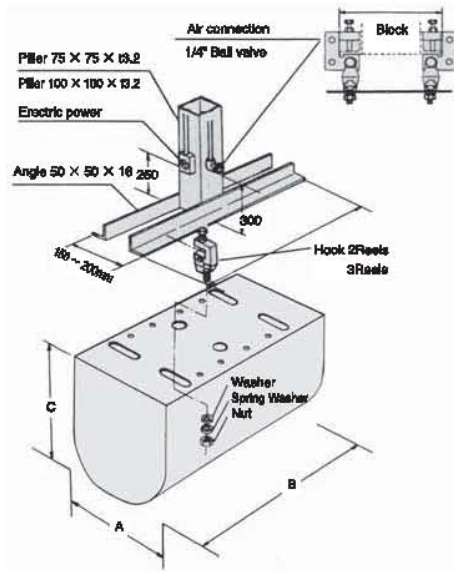
Multi Reel Box



804467
CRBOX2



804468
CRBOX3

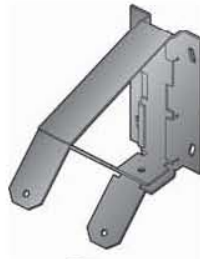


SPECIFICATIONS

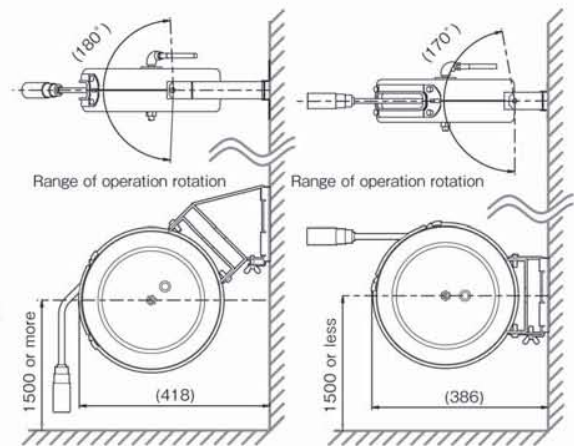
MODEL NO.	MODEL	DIMENSIONS			NET WEIGHT (kg)
		H	W	D	
804467	CRBOX2	374mm	390mm	353mm	5.5
804468	CRBOX3	374mm	550mm	353mm	8.5

Mounting Swing Brackets

804474 **CR-SWB-L**



804475 **CR-SWB-S**



Pendant Light

683416 **SL-13TR**



SPECIFICATIONS

MODEL NO.	MODEL	RATING	WATTAGE	NET WEIGHT
683416	SL-13TR	100V	13W	0.35kg

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

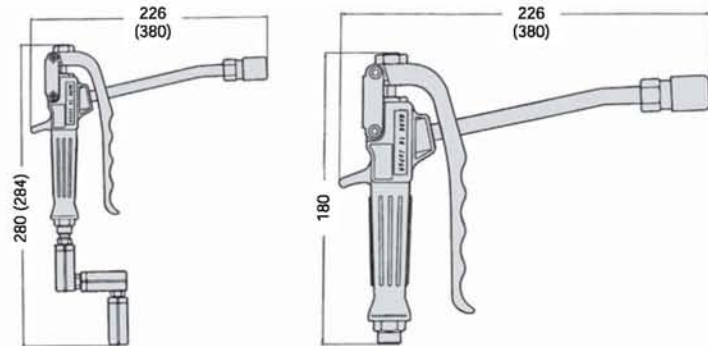
851985
HPG-G
852164
HPG-G13



SPECIFICATIONS

MODEL NO.	MODEL	INLET CONNECTION	DISPENSE VALVE	NOZZLE	SWIVEL JOINT
851985	HPG-G	G1/4	852165 HPG-H	800547 CNP-2	802910 HPG-J
852164	HPG-G13		852410	800702 CNP-13	

Dimensions (mm)



DISPENSE VALVE



SPECIFICATIONS

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

SWIVEL JOINT



SPECIFICATIONS

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

800531 CNP-2



800702 CNP-13



SPECIFICATIONS

MODEL NO.	MODEL	NOZZLE DIA	LENGTH	CONNECTION
800531	CNP-2	14mm	171mm	R1/8"
800702	CNP-13	18mm	325mm	R1/8"

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

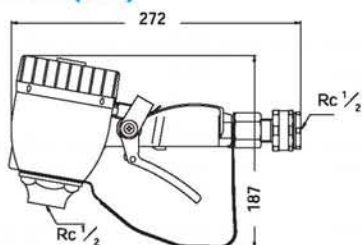
LBM-30

802237

LBM-16



Dimensions (mm)



SPECIFICATIONS

MODEL NO.	801429	802238	802237
MODEL	LBM-60	LBM-30	LBM-16
PRESET FLOW RANGE	1 ~ 60L	1 ~ 30L	1 ~ 16L
MIN GRADUATIONS	1L	0.5L	0.5L
MAX FLOW	9L/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.

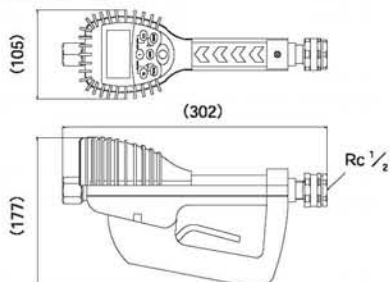
Usable liquid: Motor oil (SAE 5W~50), Gear oil (SAE75W~140), ATF fluid, LLC and Machine oil

804536

LBM-P



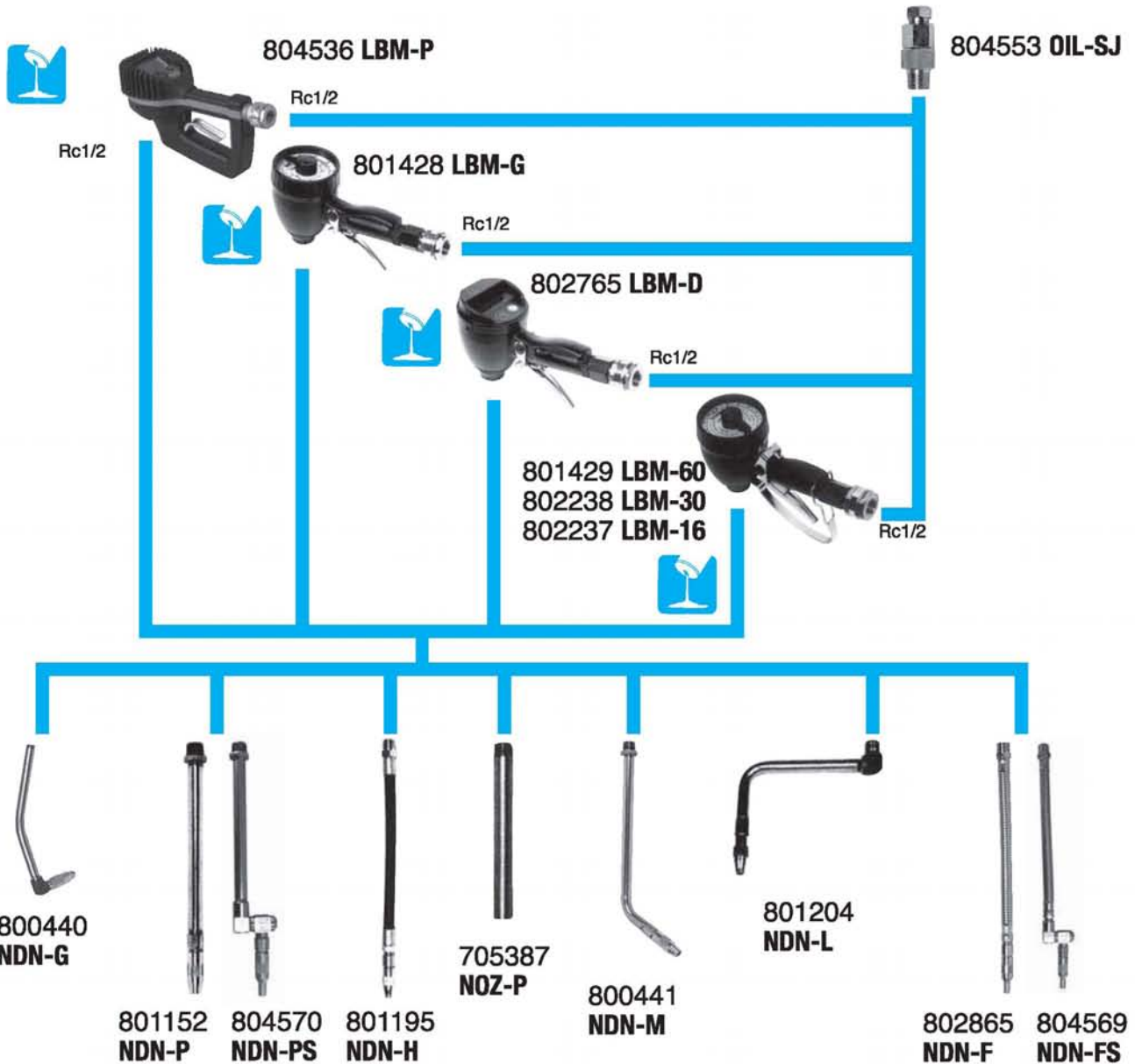
Dimensions (mm)



SPECIFICATIONS

MODEL NO.	804536
MODEL	LBM-P
PRESETTABLE AMOUNT	0.1 ~ 999.0L
MIN SCALE VALUE	0.01L
MAX FLOW	30L/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	2.0 kg

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.

801152 NDN-P NON-DRIP NOZZLE

804570 NDN-PS NON-DRIP NOZZLE W/SWIVEL

Non-drip nozzle with straight pipe.

801195 NDN-N NON-DRIP NOZZLE

Non-drip nozzle with flexible hose.

705387 NOZ-P STRAIGHT NOZZLE

Straight pipe nozzle.

800441 NDN-M NON-DRIP NOZZLE

Non-drip nozzle with 60° angled head.

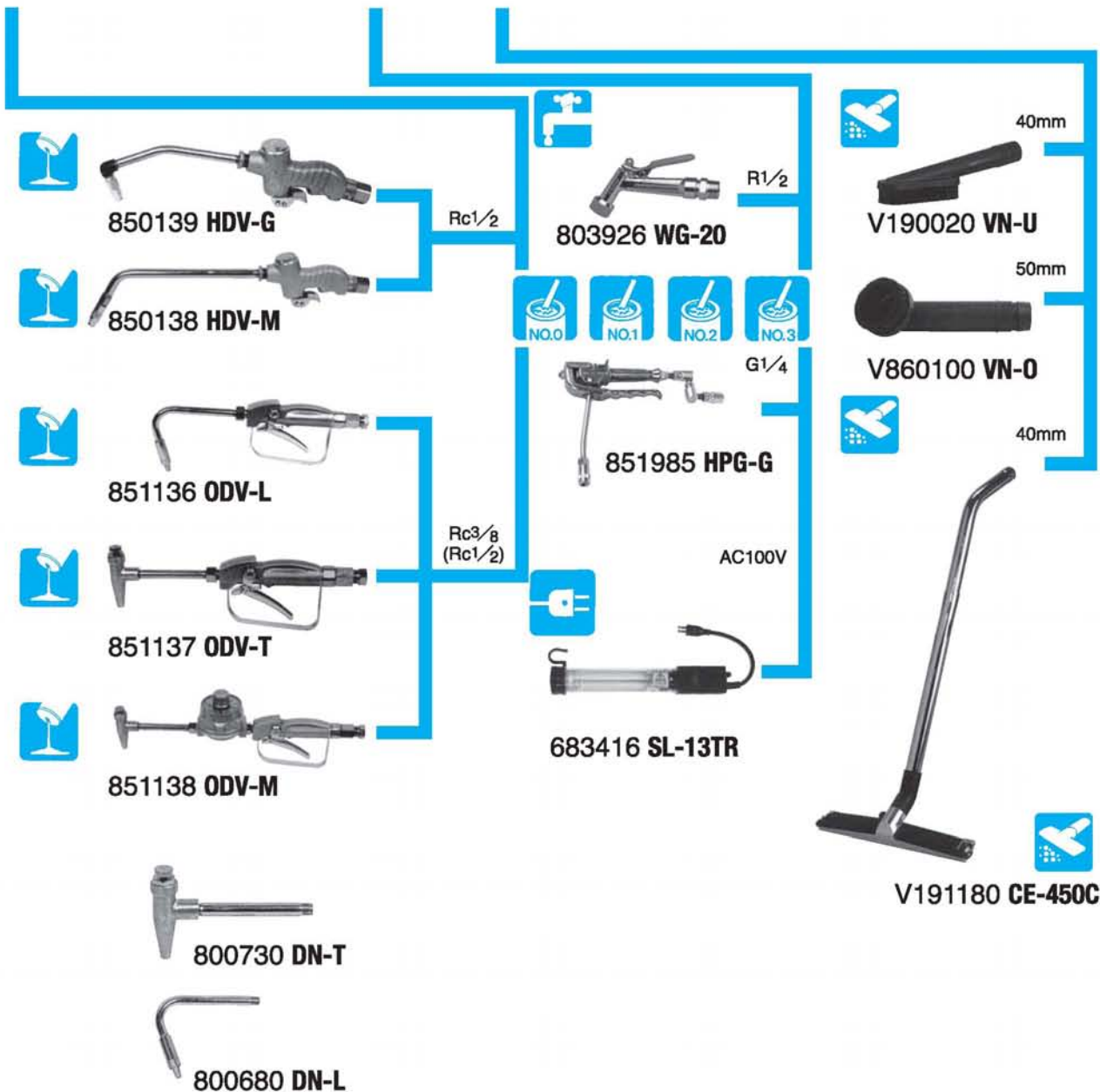
801204 NDN-L NON-DRIP NOZZLE

Non-drip nozzle with L-shape pipe.

802865 NDN-F NON-DRIP NOZZLE

804569 NDN-FS NON-DRIP NOZZLE W/SWIVEL

Non-drip nozzle with flexible pipe.



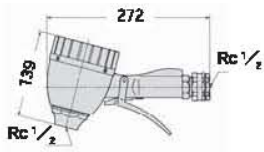
- 850139 HDV-G HIGH-VOLUME OIL DISPENSE VALVE**
High-volume dispense valve for gear oil.
- 850138 HDV-M HIGH-VOLUME OIL DISPENSE VALVE**
High-volume dispense valve for motor oil.
- 851136 ODV-L OIL DISPENSE VALVE**
Compact size oil dispense valve with non-drip nozzle.
- 851137 ODV-T OIL DISPENSE VALVE**
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.
- V860100 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.

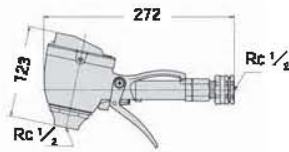
Dispense Valves

Dimensions (mm)

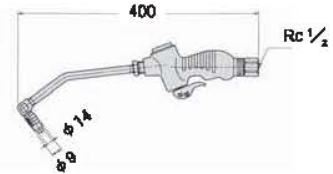
801428 LBM-G



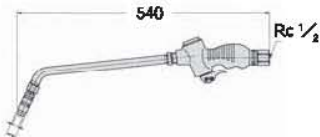
802765 LBM-D



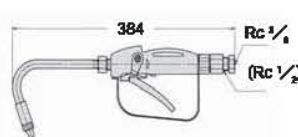
850139 HDV-G



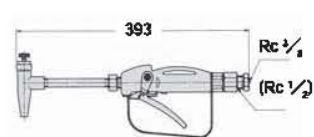
850138 HDV-M



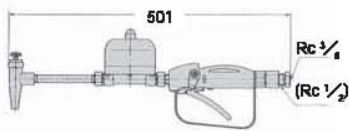
851136 ODV-L



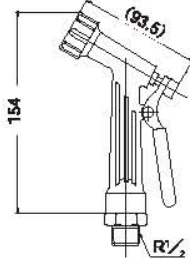
851137 ODV-T



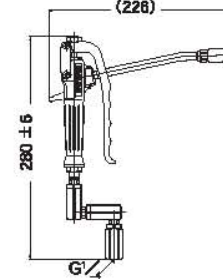
851138 ODV-M



803926 WG-20



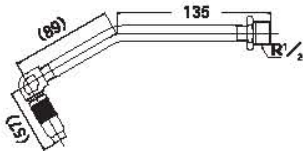
851985 HPG-G



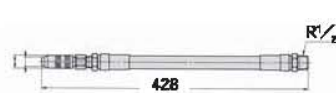
Nozzles

Dimensions (mm)

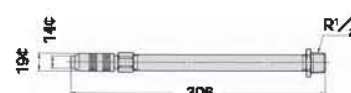
800440 NDN-G



801195 NDN-H



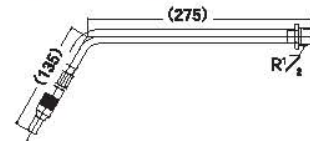
801152 NDN-P



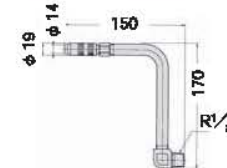
705387 NOZ-P



800441 NDN-M



801204 NDN-L



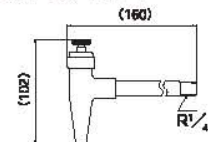
804570 NDN-PS



802865 NDN-F



800730 DN-T



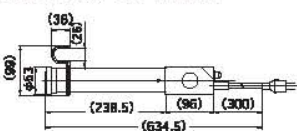
800680 DN-L



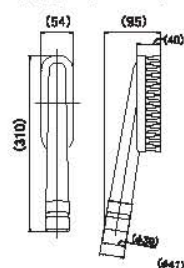
804569 NDN-FS



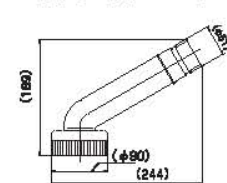
683416 SL-13TR



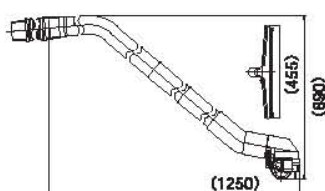
V190020 VN-U



V860100 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.

881083
LDS-110



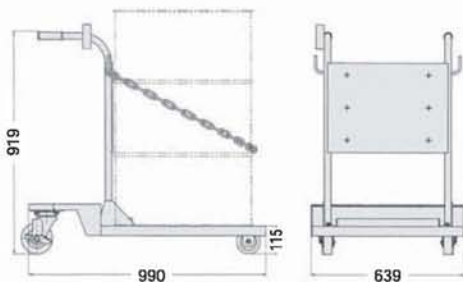
881084
LDS-110K



881085
LDS-110R



Dimensions (mm)



※ Container is not included

COMPONENTS

MODEL NO.	881083	881084	881085
MODEL	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" X 1/2"		
DELIVERY HOSE	695156 110H-5M 1/2" X 5m	695156 110H-5M 1/2" X 5m	695092 110H-2M 1/2" X 5m
HOSE REEL	—	—	851251 SR-4G10
DOLLY	802424 LDS-CT DOLLY		

MOBILE LUBRICATION SYSTEMS

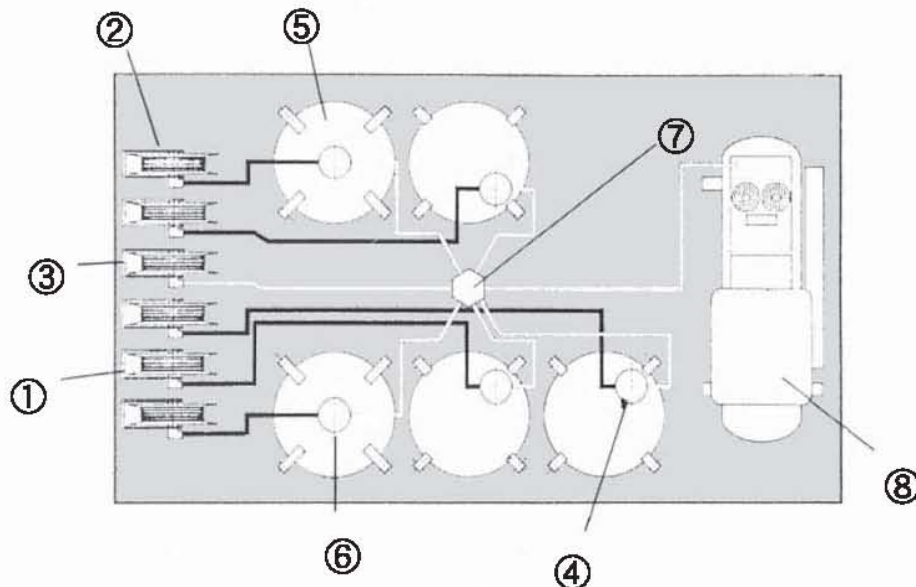
Lubrication Truck

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



SYSTEM CONFIGURATION



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

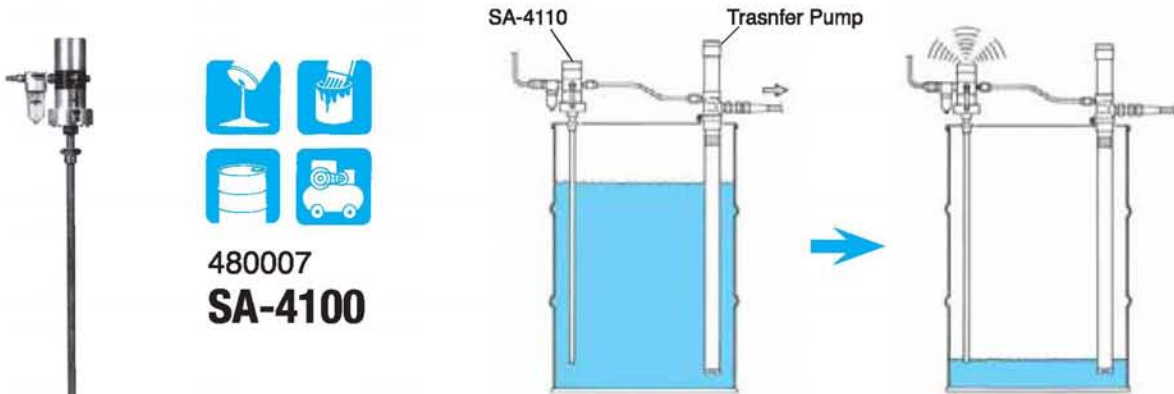
PNEUMATIC LEVEL ALARMS & LEVEL CONTROLLER

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.

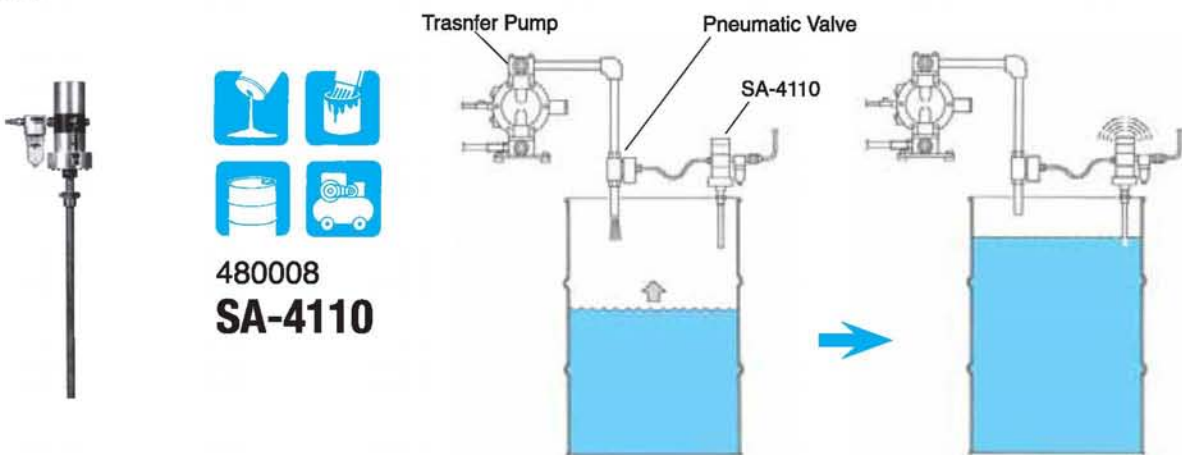


SPECIFICATIONS

MODEL NO.	MODEL	SUPPLY AIR PRESSURE	OUTPUT AIR FLOW	RECOMMENDED VISCOSITY	NET WEIGHT (kg)
480007	SA-4100	0.2~0.7MPa (2~7kgf/cm ²)	MAX 1000L/min (ANR) (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.



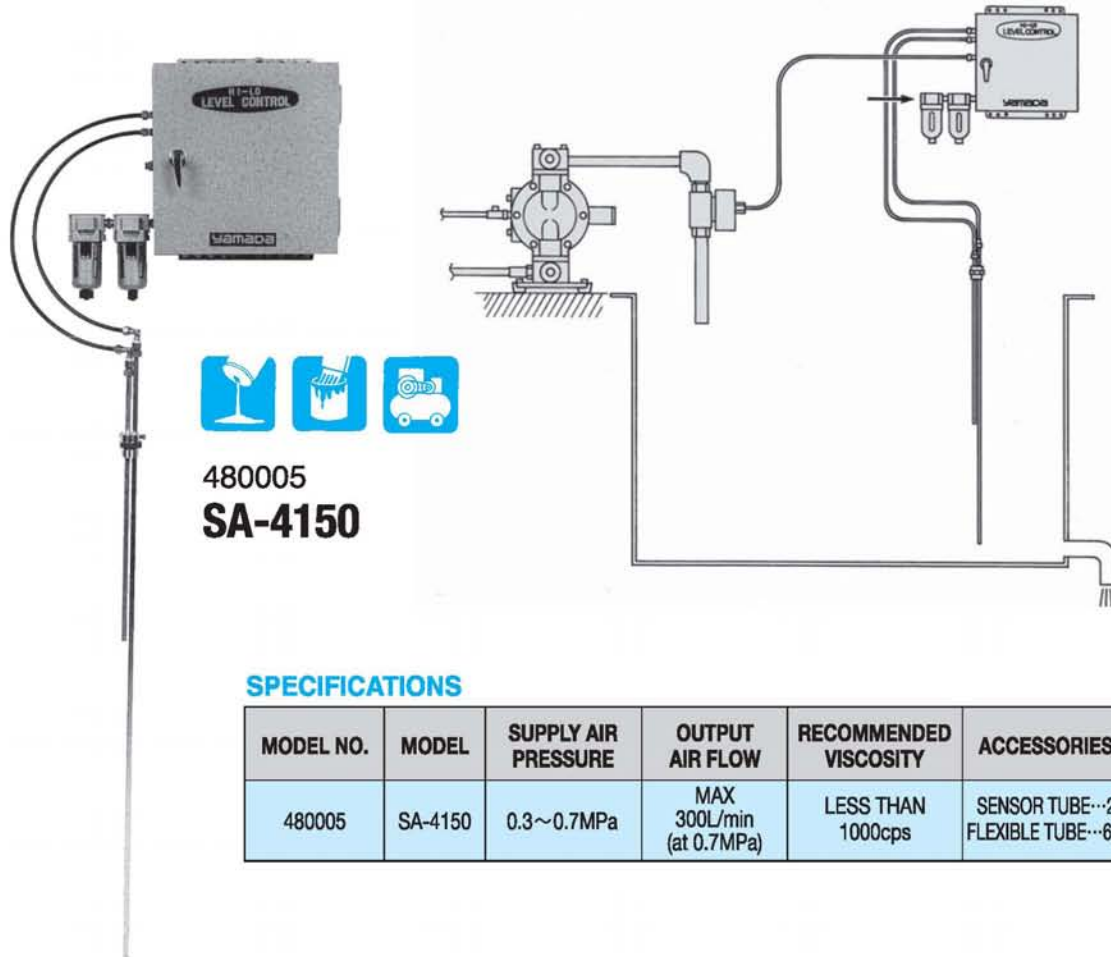
SPECIFICATIONS

MODEL NO.	MODEL	SUPPLY AIR PRESSURE	OUTPUT AIR FLOW	RECOMMENDED VISCOSITY	NET WEIGHT (kg)
480008	SA-4110	0.2~0.7MPa (2~7kgf/cm ²)	MAX 1000L/min (ANR) (at 0.5MPa)	LESS THAN 2,500cps	2.2

PNEUMATIC LEVEL ALARMS & LEVEL CONTROLLER

High-Low Level Controller

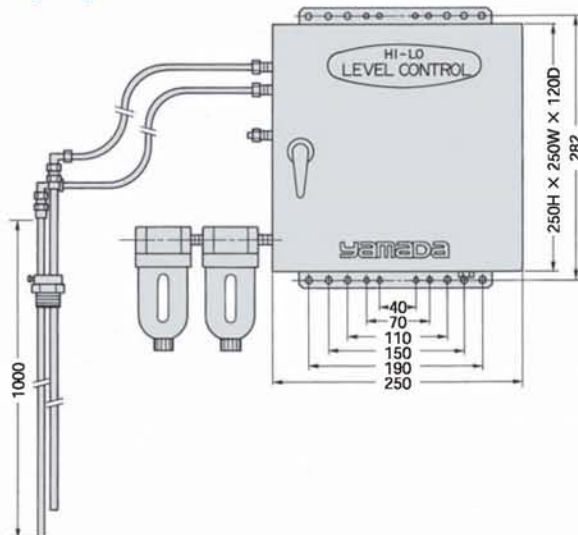
The high and low levels of liquid in a container can be kept within a certain predetermined level. This device is driven by compressed air and is therefore suitable for use in highly explosive, high temperature, high humidity environments. The system also works in high electromagnetic fields. It can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



SPECIFICATIONS

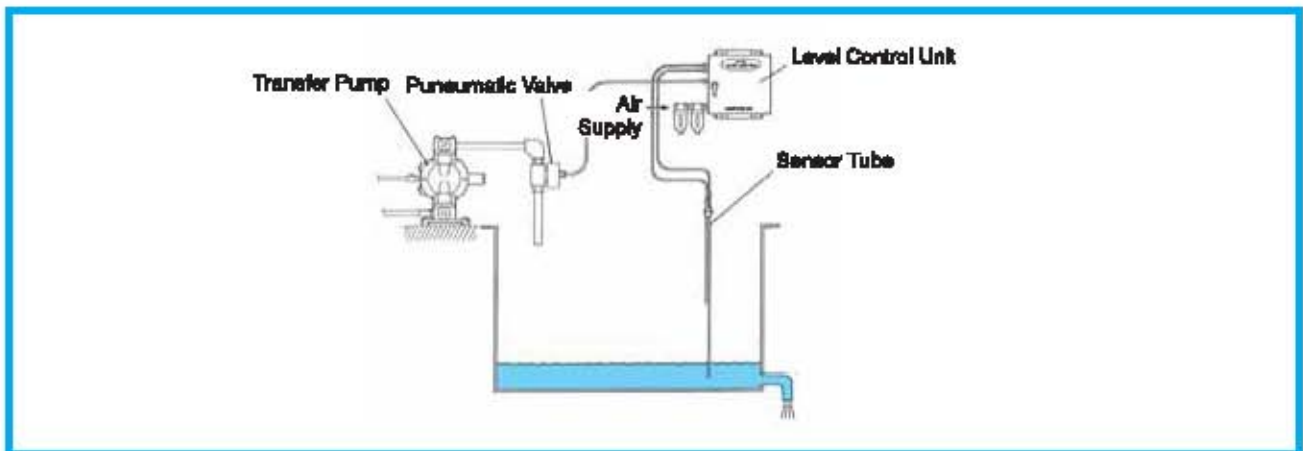
MODEL NO.	MODEL	SUPPLY AIR PRESSURE	OUTPUT AIR FLOW	RECOMMENDED VISCOSITY	ACCESSORIES	NET WEIGHT (kg)
480005	SA-4150	0.3~0.7MPa	MAX 300L/min (at 0.7MPa)	LESS THAN 1000cps	SENSOR TUBE...2 FLEXIBLE TUBE...6m	6.0

Dimensions (mm)

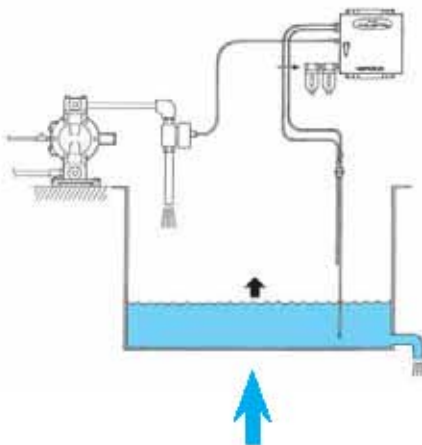


TYPICAL INSTALLATION

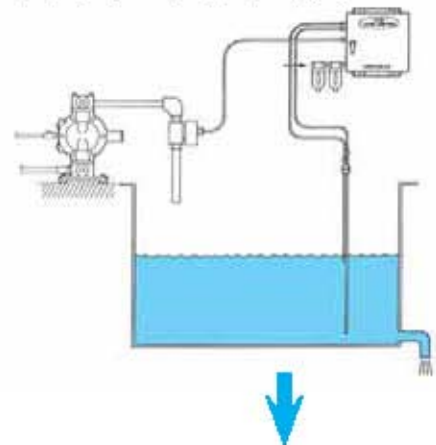
- Install the control unit near the tank.
- Then connect the air supply line to the control unit.
- Adjust the high and low levels by adjusting the level of the sensor tubes inside the tank
- When the liquid reaches the preset high or low level in the tank the pumps air supply will be stopped or started.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



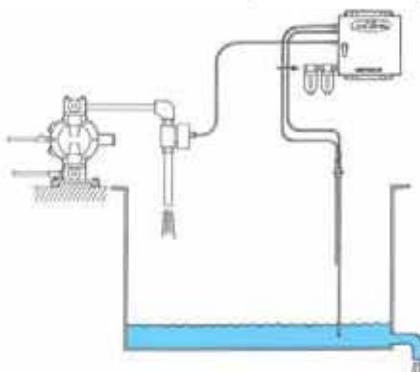
1. Liquid is pumped to raise the level in the tank.



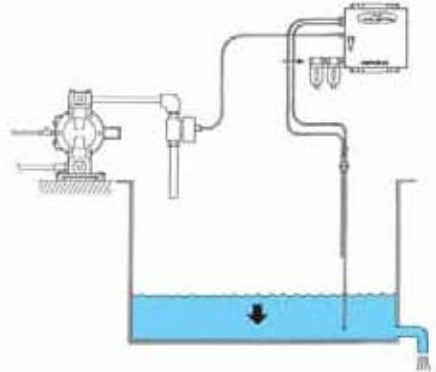
2. When the liquid reaches the upper preset limit the controller stops the supply of air to the pump to shut off the flow of liquid.



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.



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)

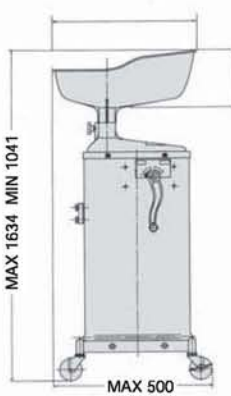


OD-55

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

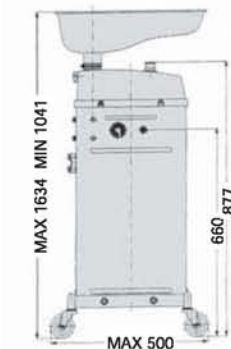


OD-70PG

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 ³)
880264	OD-55	20L	—	13	0.1878
880894	OD-70PG	55L	10L/40 rev	21	0.2277
880895	OD-70APN	55L	15L/min	21	0.2277

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

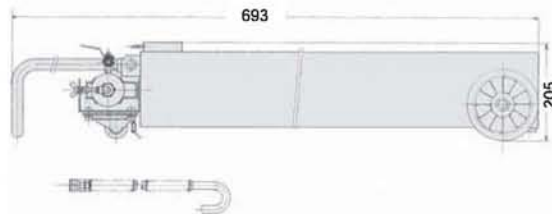
MODEL NO.	MODEL	TANK CAPACITY	ACCESSORIES	NET WEIGHT (kg)	MEASURE MENT(m ³)
880577	DC-77P	77L	851640 PUMP-HOSE UNIT	32.5	0.2832
※ 851634	DC-77S			28.0	0.17

※without pump model.

PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	MAX AIR CONSUMPTION
851635	1.8 : 1	7L/min	130L/min (ANR)

Dimensions (mm)



880576
DC-100



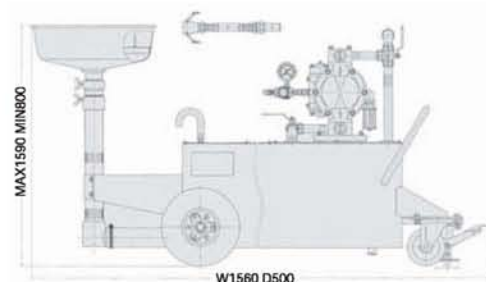
SPECIFICATIONS

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

PUMP DATA

MODEL NO.	PUMP RATIO	MAX FREE FLOW	MAX AIR CONSUMPTION
851696	1 : 1	40L/min (ANR)	150L/min (ANR)

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.



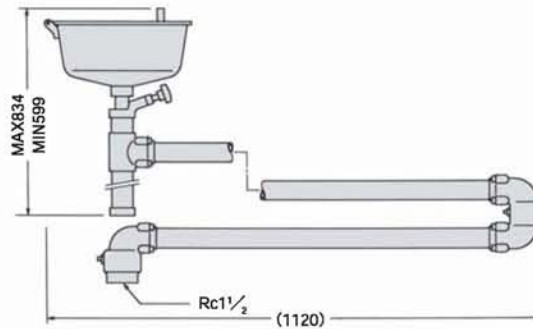
880129
DA-366



DA-366

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

Dimensions (mm)



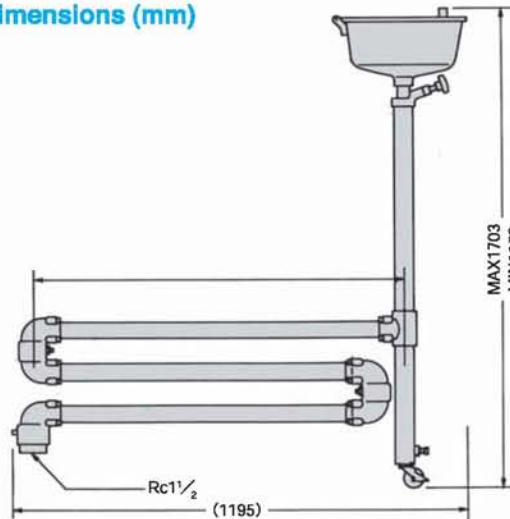
880130
DA-367



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 ³)
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.

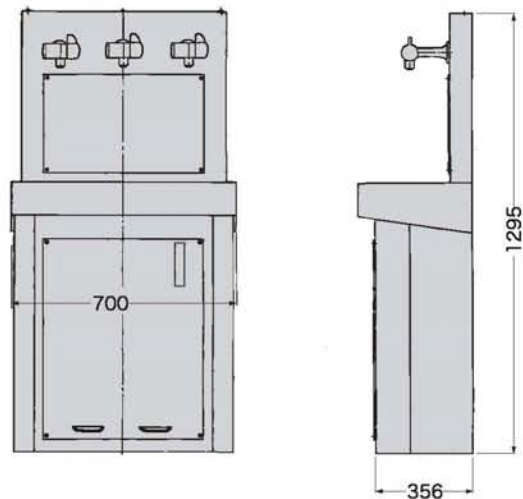
Non-drip oil tap This unit is splash proof and non-dripping. The large handle provides easy operation.



880162
OP-3



Dimensions (mm)

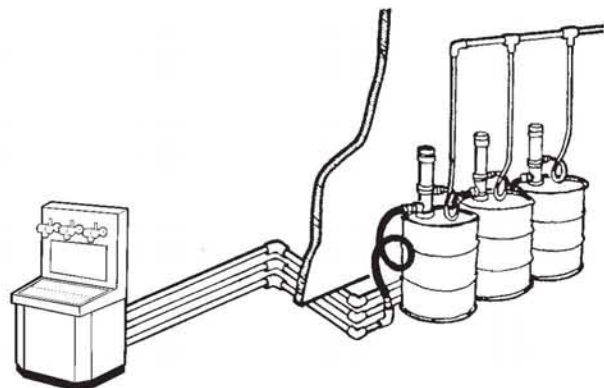


SPECIFICATIONS

MODEL NO.	MODEL	ACCESSORIES	NET WEIGHT (kgs)	MEASUREMENT (m ³)
880162	OP-3	800864 CONNECTING HOSE3 Units 801241 AIR REGULATOR.....3 Units	35.0	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.



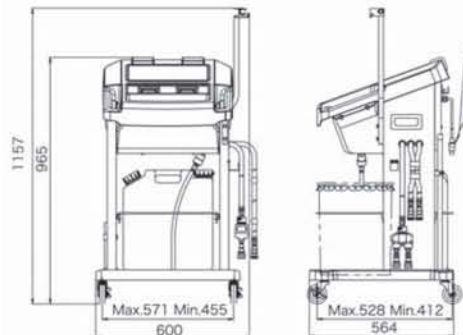
881068 (AC100V)
881082 (AC220-240V)
AFC-9000S



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 : 2.2L/min PORTABLE (NOZZLE : $\phi 4.5 \times \phi 6$, ATF TEMP : 20°C) WATER ATF : REMOVAL : 1.4L/min (NOZZLE : $\phi 4.5 \times \phi 6$, ATF TEMP : 50°C) EXHAUST FROM WASTE ATF TANK : 3.0L/min (NOZZLE : $\phi 10 \times \phi 14$, ATF TEMP : 20°C)
PUMP SPECIFICATIONS	TYPE : TOROCOID PUMP W/RELIEF VALVE (2 UNITS) CAPACITY : 3.7L/min (50 Hz) / 4.5L/min (60 Hz) DISCHARGE PRESSURE : 0.5 MPa MOTOR TYPE : CAPACITOR, RATING : CONTINUOUS
TANK CAPACITY	WASTE ATF : 18L DEDICATED TANK NEW ATF : AVAILABLE 20L 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 × D564
WEIGHT	49 kg (DRY)
MEASUREMENT	0.525 m ³
ACCESSORIES	DIPSTICK NOZZLE ($\phi 4.5 \times \phi 6 \times 1200$ mm) : 1 WASTE ATF EXHAUST NOZZLE ($\phi 10 \times \phi 14 \times 300$ 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.



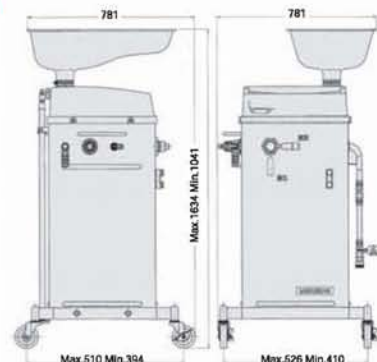
881003
MD-70DP

SPECIFICATIONS

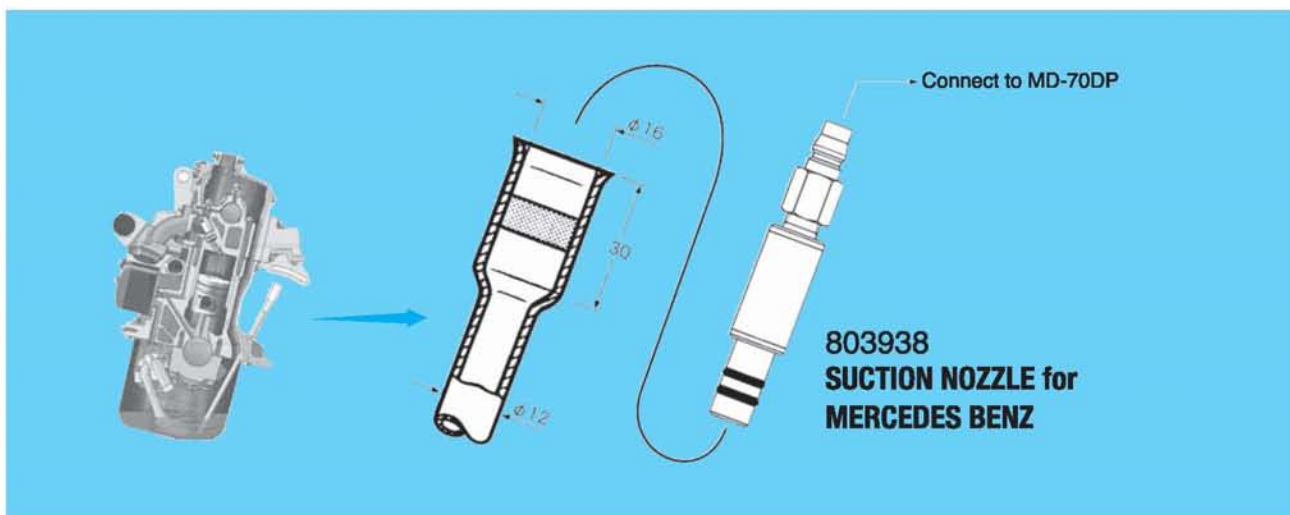
MODEL NO.	881003
MODEL	MD-70DP
PUMP SPECIFICATIONS	853654 DIAPHRAGM PUMP DP-10BAN : 1 UNIT MAX FLOW : 13L/min (NORMAL CONDITION)
WASTE OIL TANK CAP.	55L
NET WEIGHT	19 kg
ACCESSORIES	804203 SUCTION NOZZLE $\phi 6 \times \phi 4.5 \times 700$ mm 803938 SUCTION NOZZLE for MERCEDES BENZ 803818 WASTE OIL EXTRACT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



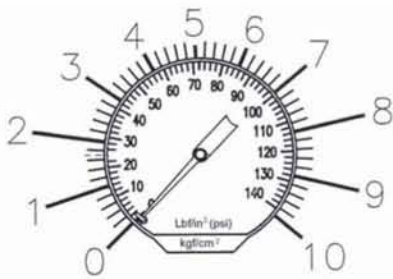
880978
AT-331



802762 FLOOR STAND

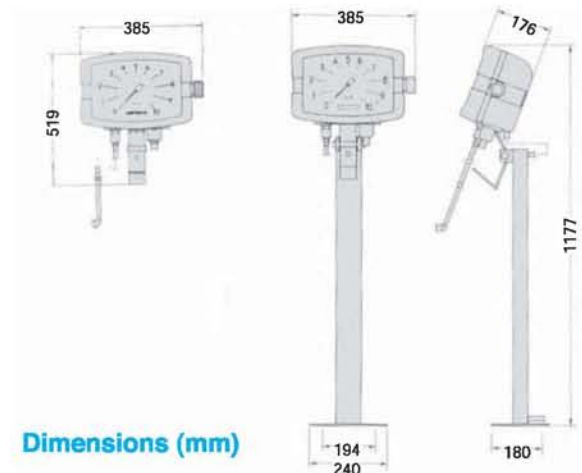


SCALE



SPECIFICATIONS

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



Dimensions (mm)

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 0.99 MPa (9.9kgf/cm²).



881021
ATC-99L



880792
ATC-99S

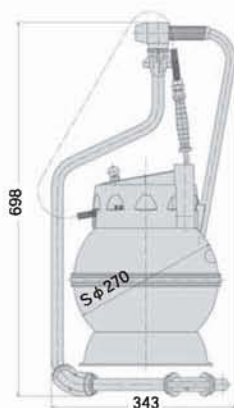


881022
ATC-150L

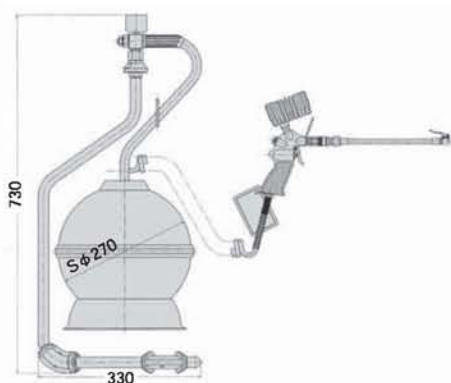


Dimensions (mm)

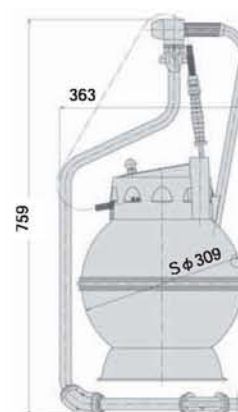
ATC-99L



ATC-99S



ATC-150L



SPECIFICATIONS

MODEL NO.	MODEL	INFLATION RANGE	TANK CAPACITY	NET WEIGHT (kg)
881021	ATC-99L	ATC-99S	9.9L	BODY : 5.0 STAND : 2.1
880792	ATC-99S			BODY : 4.3 STAND : 2.0
881022	ATC-150L		15L	BODY : 5.7 STAND : 2.2

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

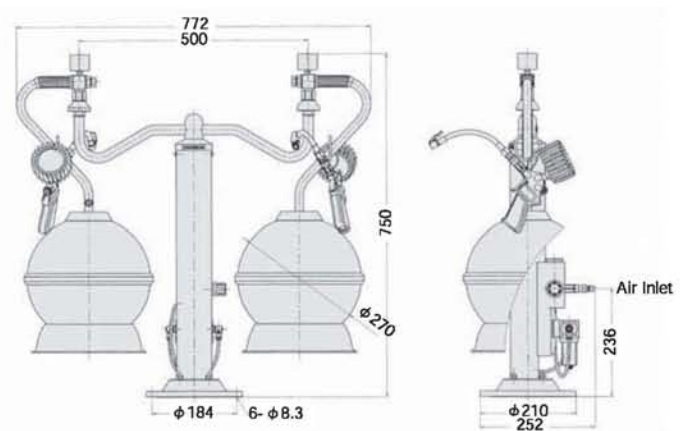
CCS-99S2



SPECIFICATIONS

MODEL NO.	881026
MODEL	CCS-99S2
NITROGEN CONCENTRATION	ABOVE 98%
NITROGEN GENERATION RATE	3.5L/min (ANR)
SUPPLY AIR TEMPERATURE RANGE	5~60℃
SUPPLY AIR PRESSURE RANGE	12~15MPa
TANK CAPACITY	9.9L×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 touch panel provides easy operation with minimal controls.



881103 (AC100V)
130000 (AC220-240V)



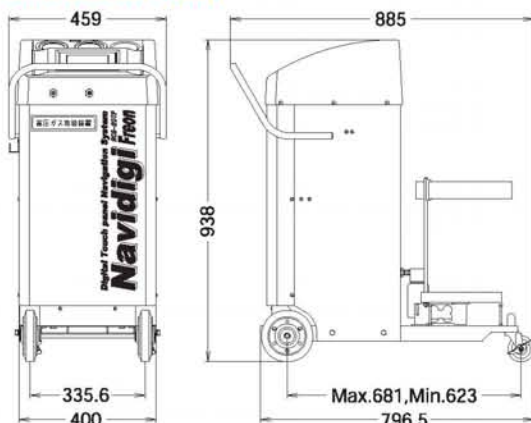
RCS-20TP BB



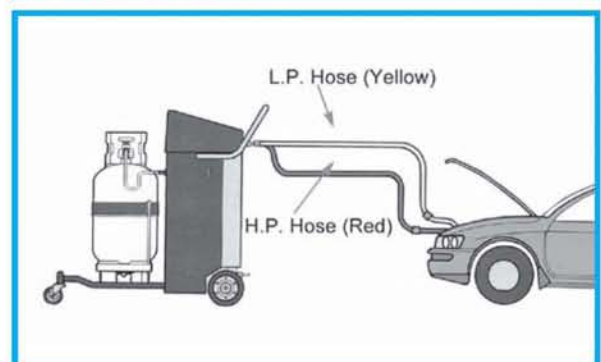
SPECIFICATIONS

MODEL NO.	881103/130000
MODEL	RCS-20TP BB
REFRIGERANT	R-134a/R-12
RECOVERING CAPACITY	20pcs/box
PRESSURE CLASSIFICATION	FC1 (3MPa)
RECOVERY METHOD	COMPRESSION (UQUEFY)
RECYCLING METHOD	ADSORPTIVE FILTRA110N
VACUUM DESPLACEMENT	14L/min
COMPRESSOR	DC250W/(1/3HP) OIL LESS
POWER SOURCE	AC 100V/AC200-240V
POWER RATING	6A
REFRIGERANT TANK TYPE	SEPARATE
REFRIGERANT TANK CAPACITY	21L
OVERLOAD PROTECTOR	WEIGHT SENSOR
WEIGHT	46kg (EXCEPT TANK)
OPERATING TEMP RANGE	0~35°C
ACCESSORIES	685428 BALL VALVE: 4 685494 CAP: 1 685497 GUN HOLDER for R-134a: 1 685498 GUN HOLDER for R-12: 1 685495 H.P. QUICK CHUCK for R-134a: 1 685496 L.P. QUICK CHUCK for R-134a: 1 695695 H.P. SP ADAPTER HOSE for R-12 (Red): 1 695778 L.P. HOSE 2.5M for R-134a (Yellow): 1 695779 H.P. HOSE 2.5M for R-134a (Red): 1 695780 L.P. HOSE 2.5M for R-12 (Yellow): 1 695781 H.P. HOSE 2.5M for R-12 (Red): 1 695678 HOSE 0.6M (Red): 1 684446 REFRIGERANT TANK (21L): 2

Dimensions (mm)



INSTALLATION



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)



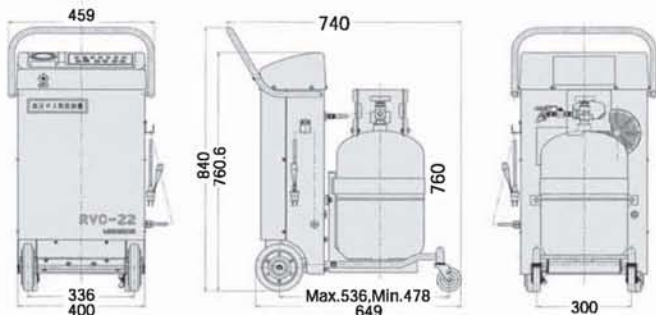
RVC-22B



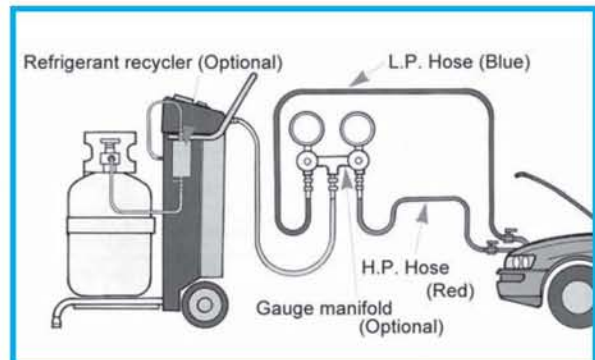
SPECIFICATIONS

MODEL NO.	881018/150000
MODEL	RVC-22B
POWER SOURCE	AC100V/AC200-240V
POWER RATING	4A
REFRIGERANT	R-134a/R-12
RECOVERING CAPACITY	240g/min (25°C)
REFRIGERANT TANK	21L
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

Dimensions (mm)



INSTALLATION



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
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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.68)



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.

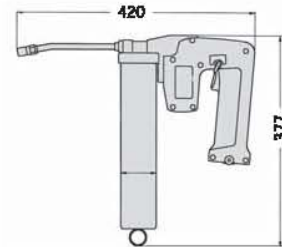
SPECIFICATIONS

CONTAINER CAPACITY	OUTPUT	OUTPUT PRESSURE	VOLTAGE	NET WEIGHT (kg)
CARTRIDGE GREASE 420mL & 210mL	1.6mL/sec. (6MPa LOAD)	32MPa (320kgf/cm ²)	DC-9.6V	2.49 W/O CHARGER

BATTERY CHARGER

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

Dimensions (mm)



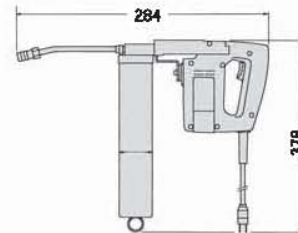
852441 EG-400D ELECTRIC DRIVEN DC-24V

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 420mL & 210mL	1.6mL/sec. (6MPa LOAD)	32~40MPa (320kgf/cm ²)	DC-24V/430W	2.7

Dimensions (mm)



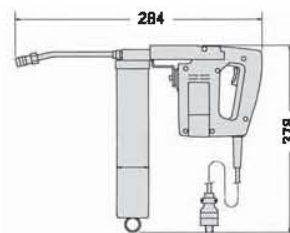
852443 EG-400A ELECTRIC DRIVEN AC100V

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 420mL & 210mL	1.6mL/sec. (6MPa LOAD)	40~50MPa (500kgf/cm ²)	AC-100V 50-60Hz	2.7

Dimensions (mm)



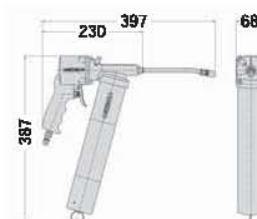
853755 AMG-400 AIR-OPERATED

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 420mL & 210mL	0.2 ~ 0.7MPa (2~9kgf/cm ²)	1mL	32MPa (450kgf/cm ²)	1.8

Dimensions (mm)



HANDY TYPE GREASE GUNS

Land Operated Grease Guns



853935
KH-32



853920
KH-120



853923
KH-35



854297
GC-57K



854284
CH-650LL



853926
CH-400



**YAMADA GENUINE
CARTRIDGE GREASE**
(See P.68)



HAND OPERATED GREASE GUN HAND CONTAIN TYPE

SPECIFICATIONS

MODEL NO.	MODEL	CAPACITY CARTRIDGE	OUTPUT/ STROKE	OUTPUT PRESSURE	DIMENSIONS (mm)			NOZZLE	NET WEIGHT (kg)
					A	B	C		
853935	KH-32	200mL	1.62g	25MPa (250kgf/cm ²)	393	130	60	800520 HSP-1	1.44

HAND OPERATED GREASE GUN HAND CONTAIN/CARTRIDGE TYPE

SPECIFICATIONS

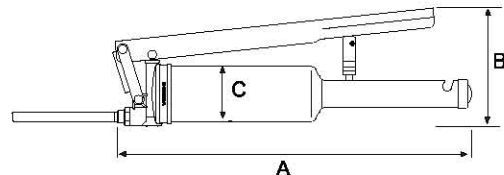
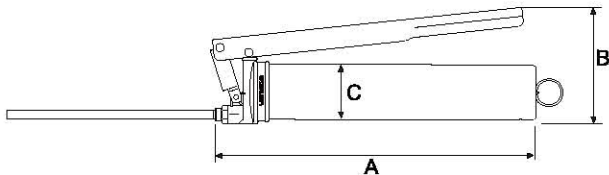
MODEL NO.	MODEL	CAPACITY CARTRIDGE	OUTPUT/ STROKE	OUTPUT PRESSURE	DIMENSIONS (mm)			NOZZLE	NET WEIGHT (kg)
					A	B	C		
853920	KH-120	140mL	0.6g	20MPa (200kgf/cm ²)	250	87	38.1	800520 HSP-1	0.55
		85mL							
853923	KH-35	400mL	1.00g	25MPa (250kgf/cm ²)	319	122	60.5	800520 HSP-1	1.23
		210mL							
854284	CH-650LL	500mL	1.6g	80MPa (800kgf/cm ²)	401	140	60.5	800531 CNP-2	1.69
		420mL							
854297	GC-57K	500mL	1.6g	25MPa (250kgf/cm ²)	411	129	56.5	800531 CNP-2	1.70
		683272 MP-2							

HAND OPERATED GREASE GUN HAND CONTAIN TYPE

SPECIFICATIONS

MODEL NO.	MODEL	CAPACITY CARTRIDGE	OUTPUT/ STROKE	OUTPUT PRESSURE	DIMENSIONS (mm)			NOZZLE	NET WEIGHT (kg)
					A	B	C		
853926	CH-400	— 420mL & 210mL	0.93g	50MPa (500kgf/cm ²)	397	129	60.5	800710 HSP-2	1.68

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 **CNP-2**



850664 **SPK-1C**



850665 **SPK-2C**



850666 **SPK-3C**



850381 **SPK-20C**



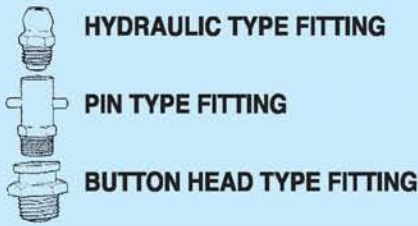
850392 **SPK-5**



SPECIFICATIONS

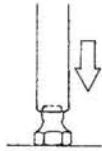
CLASSIFICATION	MODEL NO.	MODEL	OVERALL LENGTH (mm)	MODEL	NET WEIGHT (g)	REFERENCE
STRAIGHT NOZZLE	800520	HSP-1	120	R1/8"	48	FOR HYDRAULIC FITTINGS
	800710	HSP-2	240		95	
	800568	HSP-8	220		88	
	800570	HSP-10	450		180	
	800701	HSP-3	135		52	FOR BEARING
HYDRAULIC NOZZLE	800531	CNP-2	171	R1/8"	82	FOR HYDRAULIC FITTINGS
	800702	CNP-13	325		170	FOR HYDRAULIC FITTINGS
FLEXIBLE EXTENSION HOSE MICRO HOSE®	850664	SPK-1C	355	R1/8"	141	FOR PIN TYPE FITTINGS
	850665	SPK-2C	375		180	FOR BUTTON HEAD FITTINGS
	850666	SPK-3C	330		83	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	414		300	FOR HUDRAULIC FITTINGS
	851268	SPK-700E	691		R1/8"	510

GREASE FITTINGS



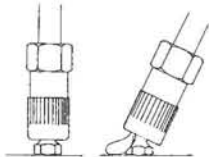
HSP-1, 2, 8 and 10

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.



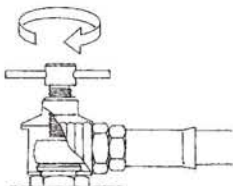
SPK-1C

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



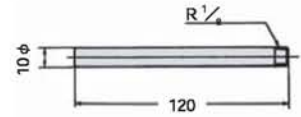
SPK-2C, 20C

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

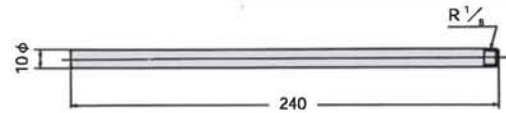


Dimensions (mm)

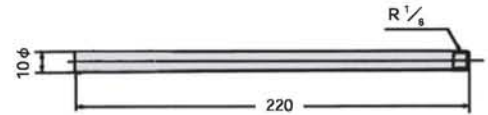
HSP-1



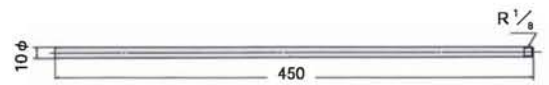
HSP-2



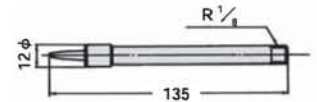
HSP-8



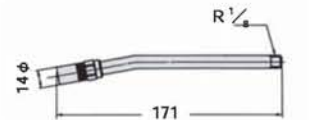
HSP-10



HSP-3



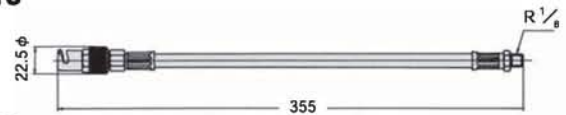
CNP-2



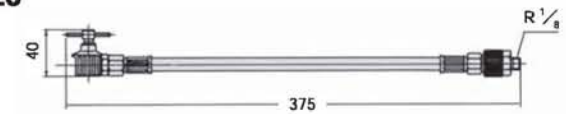
CNP-13



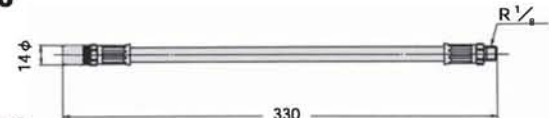
SPK-1C



SPK-2C



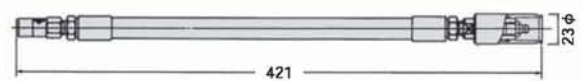
SPK-3C



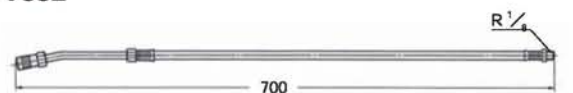
SPK-20C



SPK-5



SPK-700E



HANDY TYPE GREASE GUNS

Multi Purpose Cartridge Grease

MMG-400



MMG-200



MMG-80



MP-2



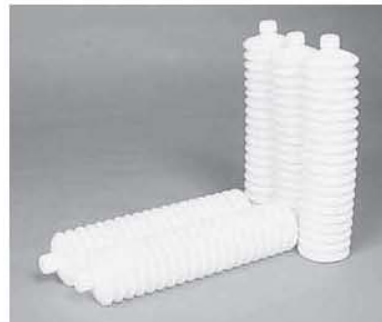
High Temperature Cartridge Grease

NPC-AA



Food Process Cartridge Grease

FDL-FF

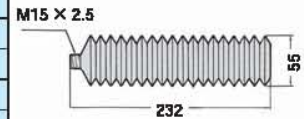


GREASE DATA

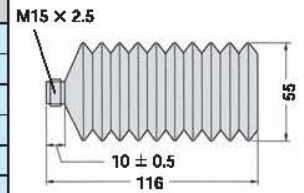
TYPE OF GREASE	FEATURE	APPLICATION
LITHIUM GREASE (MP)	A multi purpose grease that has durability and resistance to high temperatures and high pressure.	Bearing for industrial equipment, automobiles, construction equipment and conveyor.
CHASSIS GREASE (CG)	A chassis grease which is resistant to high 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 (FF)	Food grade (NSF H-1) grease for food process.	Food industry

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

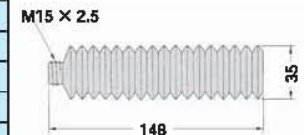
MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	TEMP. RANGE	CONTAINED/pc
					PACKAGE
682314	MMG-400MP	LITHIUM	No.2	-15°C~ 130°C	420mL
					20pcs/box
682313	MMG-400CG	CHASSIS	No.1	-10°C~ 80°C	420mL
					20pcs/box
682312	MMG-400MO	MOLYBDENUM	No.2	-15°C~ 150°C	420mL
					20pcs/box

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

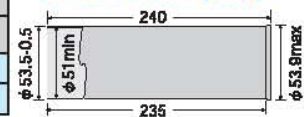
MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	TEMP. RANGE	CONTAINED/pc
					PACKAGE
683311	MMG-200MP	LITHIUM	No.2	-15°C~ 130°C	210mL
					20pcs/box
683312	MMG-200CG	CHASSIS	No.1	-10°C~ 80°C	210mL
					20pcs/box
683313	MMG-200MO	MOLYBDENUM	No.2	-15°C~ 150°C	210mL
					20pcs/box

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

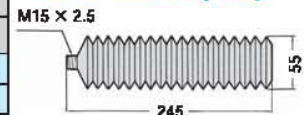
MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	TEMP. RANGE	CONTAINED/pc
					PACKAGE
682593	MMG-80MP	LITHIUM	No.2	-15°C~ 130°C	85mL
					30pcs/box
683309	MMG-80CG	CHASSIS	No.1	-10°C~ 80°C	85mL
					30pcs/box
683310	MMG-80MO	MOLYBDENUM	No.2	-15°C~ 150°C	85mL
					30pcs/box

Dimensions (mm)**683272 MP-2****MULTI PURPOSE CARTRIDGE GREASE****SPECIFICATIONS**

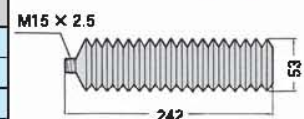
MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	TEMP. RANGE	CONTAINED/pc
					PACKAGE
683272	MP-2	LITHIUM	No.2	-20°C~ 130°C	420mL
					20pcs/box

Dimensions (mm)**684200 NPC-AA****HIGH TEMPERATURE CARTRIDGE GREASE****SPECIFICATIONS**

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

Dimensions (mm)**685800/685801 FDL-FF****FOOD PROCESS CARTRIDGE GREASE****SPECIFICATIONS**

MODEL NO.	MODEL	TYPE OF GREASE	GRADE (NLGI UNIT)	TEMP. RANGE	CONTAINED/pc
					PACKAGE
685800	FDL-FF20	ALUMINUM COMPLEX	No.2	-20°C~ 180°C	420mL
					20pcs/box
685801	FDL-FF5	ALUMINUM COMPLEX	No.2	-20°C~ 180°C	420mL
					5pcs/box

Dimensions (mm)

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