

Electric motor-driven pump MultiPort

Grease, Semi-fluid grease or Oil

General

The MultiPort Lubricator is a rugged, motor-driven, electric lubricator, equipped with fixed or adjustable output pumping elements to discharge grease or oil over a wide operating range. Low level switches are optional on this compact unit. Up to three independent feed lines can be used with the MultiPort Lubricator. A selection of timers and controller/monitors are available to program MultiPort Lubricators.



External Control Unit:

+ SMDC

Technical Data

Reservoir capacity	2 liter	plastic (PMMA)
	4 liter	plastic (PMMA)
	8 liter	metal
Lubricant	Oil	20 bis 1000 cSt
	Semi-fluid grease	NLGI class 0 ... 000
	Grease	to NLGI class 2
Maximum Working Pressure	Grease	240 bar (3.600 psi)
	Oil	180 bar (2.900 psi)
Operating Voltage	12V DC; 24V DC; 110V AC; 220/280/440V AC	
Operating Temperature Range	-18° C to 50° C (0° F to 120° F)	
Pump elements (outputs)	1 to 3 (1 piece factory-provided – fixed metered – pre-assembled)	
Pressure relief valve	adjustable +/- 30 bar (140 bar on delivery)	
Discharge volume per minute at DC, (40 rpm)	pre-set	6.4 cm ³
	adjustable	0.16 cm ³ to 6.4 cm ³
Discharge volume per minute at AC, 50 Hz (27 rpm)	pre-set	4.3 cm ³
	adjustable	0.16 cm ³ to 4.3 cm ³
Motor	see table below	
Low Level Switch	Grease	N.C.
	Oil	N.O. (ex works) can be changed to N.C.
Discharge Element Output Port	G1/4"	
Fill Connection	Grease	Conical head lubricating nipple
	Oil	Fill cap

Motor

IP Protection system	HP Rating	Voltage	Amperage maximum
IP-55	0.05 kW	12 V DC	4 A ¹
		24 V DC	2 A ¹
	0.06 kW	110 V AC	1.83 A ²
		220/380/440 V AC	0.63 A ²

¹ Operates at 40 rpm at 20 °C, 70 bar back pressure

² Operates at 32 rpm (60 Hz) at 20 °C, 70 bar back pressure

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How To Order

Name	Lubricant	Voltage	Reservoir Capacity	Reservoir Material	Low Level Switch	Part no.
MultiPort	Grease	12 V DC	2 liter (4 lb)	Plastic	No	MULTI2AA ¹
					Yes	MULTI2BA
			4 liter (8 lb)	Plastic	Yes	MULTI4BA
			8 liter (16 lb)	Metal	Yes	MULTI8BA
		24 V DC	2 liter (4 lb)	Plastic	No	MULTI2AB ¹
					Yes	MULTI2BB
			4 liter (8 lb)	Plastic	Yes	MULTI4BB
			8 liter (16 lb)	Metal	Yes	MULTI8BB
		110 V AC	2 liter (4 lb)	Plastic	No	MULTI2AC ¹
					Yes	MULTI2BC
			4 liter (8 lb)	Plastic	Yes	MULTI4BC
			8 liter (16lb)	Plastic	Yes	MULTI8BC
		220 V AC	2 liter (4 lb)	Plastic	No	MULTI2AD ¹
					Yes	MULTI2BD
			4 liter (8 lb)	Plastic	Yes	MULTI4BD
			8 liter (16 lb)	Metal	Yes	MULTI8BD
		220/380V AC 50/60 Hz Three Phase	2 liter (4 lb)	Plastic	No	MULTI2AE ¹
					Yes	MULTI2BE
			4 liter (8 lb)	Plastic	Yes	MULTI4BE
			8 liter (16 lb)	Metal	Yes	MULTI8BE
	Oil	24 V DC	2 liter (4 lb)	Plastic	Yes	MULTI2BB0
			4 liter (8 lb)	Plastic	Yes	MULTI4BB0
		110 V AC	2 liter (4 lb)	Plastic	Yes	MULTI2BC0
			4 liter (8 lb)	Plastic	Yes	MULTI4BC0
		230/400 V AC 50/60 Hz Three Phase	4 liter (8 lb)	Plastic	Yes	MULTI4BE0
			8 liter (16lb)	Metal	Yes	MULTI8BE0

When ordering, specify by name, lubricant, voltage, reservoir capacity and part number, e.g. MultiPort, grease, 110 VAC, 2 liter (4 lb) reservoir with low level switch, Part no. MULTI2BC.

¹ Reservoir cover consisting of rubber

Notes:

MultiPort pumps with marking ¹-will be delivered with rubber cover plate.

All other versions will be delivered with metal cover plate and fixing rods.

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Spare Parts

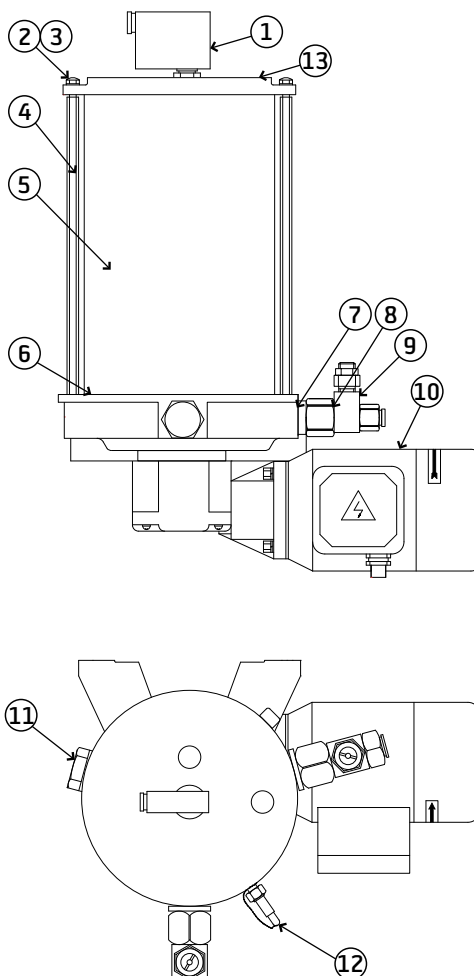
Grease Models

Item	Description	Part no.
1	Low level switch (min.)	30544
2	Sealing ring	22076-5
3	Nut	22188-3
4	Tie rod: 2 liter (4 lb)	43125-4
	Tie rod: 4 liter (8 lb)	43125-5
	Tie rod: 8 liter (16lb)	43125-7
5	Reservoir: 2 liter (4 lb)*	22465-1
	Reservoir: 2 liter (4 lb)	28205-1
	Reservoir: 4 liter (8 lb)	28205-2
	Reservoir: 8 liter (16 lb) Metal	28213-4
6	Bottom reservoir seal*	22100-61
	Bottom reservoir seal	45831-1
	Bottom reservoir seal (metal reservoir)	28228
7	Copper seal	25589-7
8	Copper seal	25589-5
9	Pump element with pressure relief valve	see page 7
10	Motor and worm gear (12 VDC)	31703-2
	Motor and worm gear (24 VDC)	31703-1
	Motor and worm gear (110 VAC)	31711-2
	Motor and worm gear (220/380/440 VAC)	31711-4
11**	Plug screw	22454
12	Grease fill fitting***	U421BC
	Fill fitting cover	U423B
13*	Rubber reservoir lid	28677

* For reservoir with rubber lid

** Copper seal (25589-7) required for installation.

*** Connection piece (U422BC).



Spare parts kits¹

Art no.	Description
A0326	2 kg Reservoir
A0327	2 kg Reservoir, 1x Seal Pump element, 1x Seal Motor
A0328	2 kg Reservoir, 1x Low level switch, 2x O-ring Follower plate
A0329	2 kg Reservoir, 1x Low level switch, 2x O-ring Follower plate, 1x Seal Pump element, 1x Seal Motor
A0324	4 kg Reservoir, 2x O-ring Follower plate
A0325	4 kg Reservoir, 1x Seal Pump element, 1x Seal Motor
A0330	4 kg Reservoir, 1x Low level switch, 2x O-ring Follower plate, 1x Seal Pump element, 1x Seal Motor
A0331	8 kg Reservoir, 2x O-ring Follower plate
A0332	8 kg Reservoir, 2x O-ring Follower plate, 1x Seal Pump element, 1x Seal Motor
A0333	8 kg Reservoir, 1x Low level switch, 2x O-ring Follower plate, 1x Seal Pump element, 1x Seal Motor

¹ All kits are containing the respecting reservoir sealings and screws.

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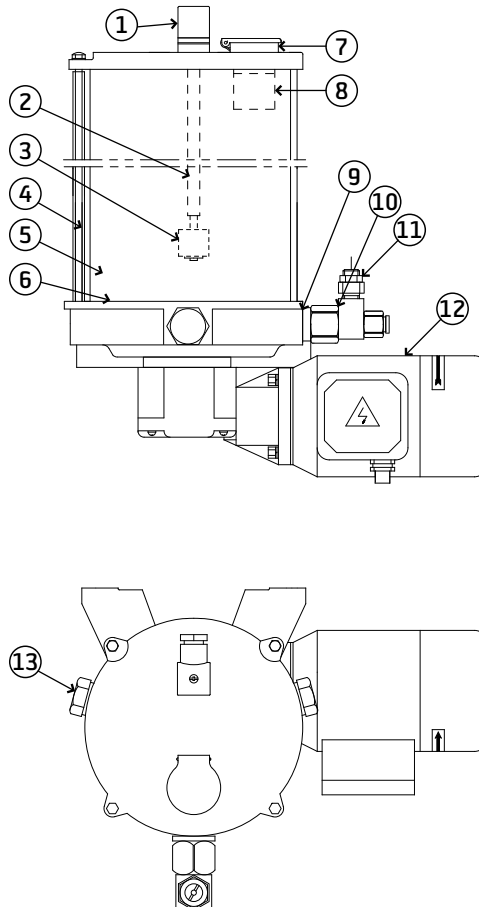
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Spare parts

Oil Models

Item	Description	Part no.
1	Din connector	41091
2	Tube for Low level control: 2 liter	41066-4
	Tube for Low level control: 4 liter	41066-1
	Tube for Low level control: 8 liter	41066-3
3	Low level switch (NO)	89640
4	Tie rod: 2 liter (4 lb)	43125-4
	Tie rod: 4 liter (8 lb)	43125-5
5	Reservoir: 2 liter (4 lb)	41077-1
	Reservoir: 4 liter (8 lb)	41077-2
6	Bottom reservoir seal	45831-1
7	Fill cap	32114
8	Screen	32116
9	Copper seal	25589-7
10	Copper seal	25589-5
11	Pump element with pressure relief valve	see page 7
12	Motor and worm gear (24 VDC)	31703-1
	Motor and worm gear (110 VAC)	31711-2
	Motor and worm gear (220/380/440 VAC)	31711-4
13*	Plug screw	22454

* Copper seal (25589-7) required for installation.



ATTENTION:

Low level switch is supplied as N.O.
If a NC-contact is required the level switch float has to be reversed.

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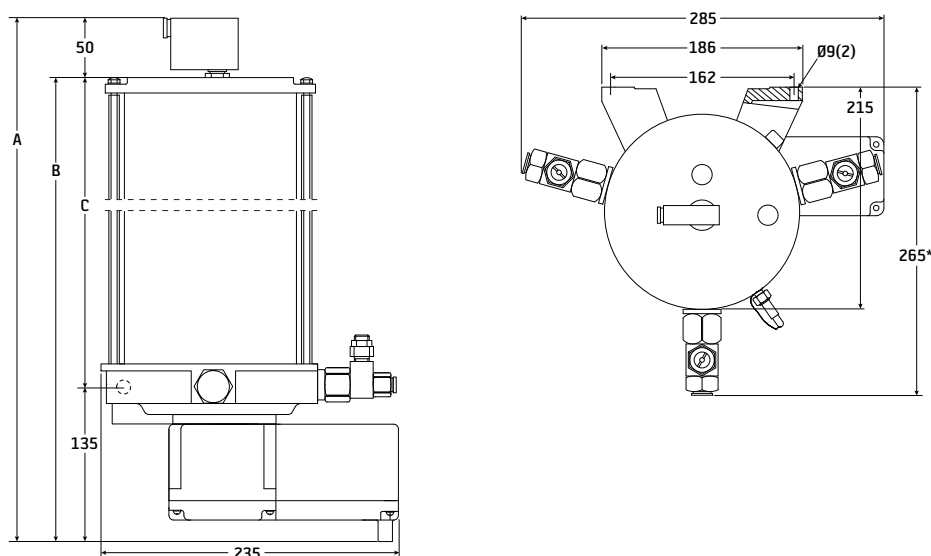
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Dimensional Schematics

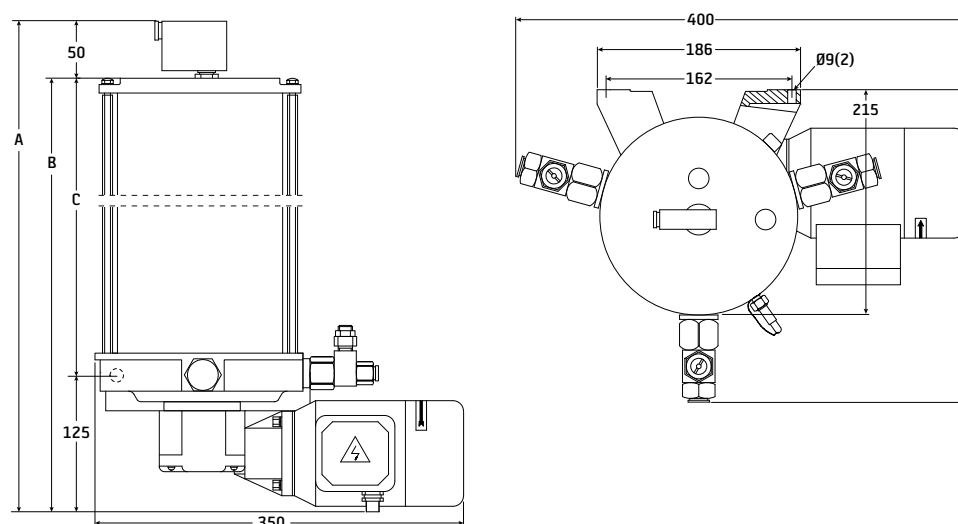
MultiPort 12 V DC & 24 V DC

All dimensions in mm



Reservoir	A	B	C
2 liter (4 lb)	430	380	230
4 liter (8 lb)	530	480	330
2 liter (4 lb) Rubber Lid	N/A	325	190

MultiPort 110 V AC, 220/380/440 V AC



Reservoir	A	B	C
2 liter (4 lb)	420	370	245
4 liter (8 lb)	520	470	345
8 liter (16 lb)	720	670	545
2 liter (4 lb) Rubber Lid	N/A	330	205

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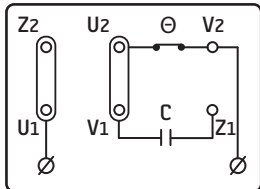
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Electrical Connection

One Phase / AC

110V AC / 220V AC

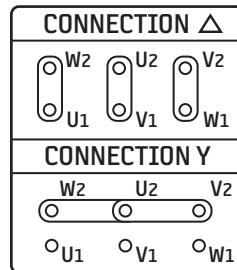


110 VAC
220 VAC

Three Phase / AC

220V-240V / 380V-415V.....50Hz

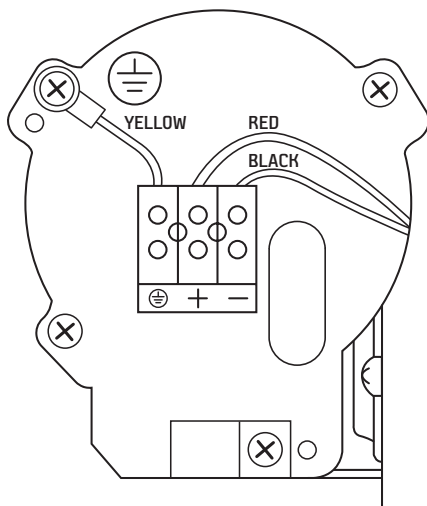
260V-280V / 440V-480V.....60Hz



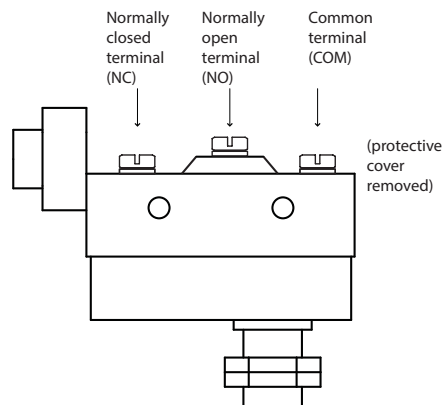
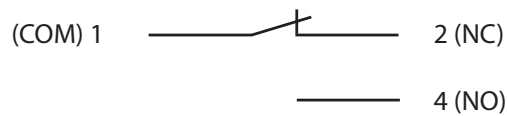
220 VAC

380/440 VAC

12 V DC & 24 V DC



Level Switch 30544 electrical connection



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Pump outlet elements incl. Pressure relief valve

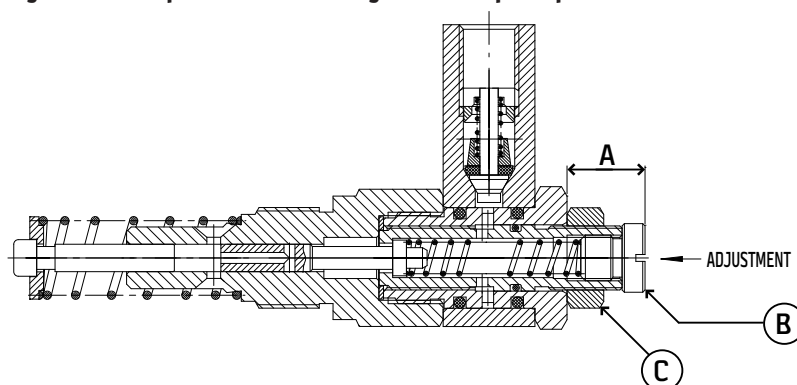
	Part Number	Type
	28278-4	pre-set
	AK442	adjustable
Pressure relief valve 210 bar	22474-4	adjustable +/- 30 bar

All MultiPorts are supplied with one fixed element. Up to two additional elements can be added.

Connection pieces

	Tube connection	Part Number
	6 mm	73442-0623 (G1/4)
	8 mm	73442-1334 (G1/4)
	10 mm	73442-0423 (R1/4)

Flow adjustment procedure - adjustable pump elements



A / mm	cm ³ /min (DC)	cm ³ /min (AC - 50Hz)	approx. % output
24	6.4	4.3	100 %
22.5	4.8	3.2	75 %
21	3.2	2.1	50 %
19.5	1.6	1.1	25 %
18.5	0.4	0.27	10 %

- Disconnect the pump outlet from the primary line tubing and start up the pump.
- Unscrew the locking nut (Item C)
- To reduce the flow, adjust the screw clockwise (inwards, Item B) to the A dimension as per the chart below.
- To increase the flow, adjust the screw slowly Counter-clockwise (Outwards Item B) to obtain the dimension + 3mm. (For example, to obtain .08cc, adjust counter-clockwise to "A" dimension of 24mm.)
- Wait a few seconds and screw clockwise to the "A" dimension once more to obtain the required flow.
- Retighten locking nut, item C.
- Allow the pump to run until a solid line of grease is obtained.
- Turn off the pump.
- Re-connect the outlet of the pump to the primary line tubing and start up the pump again.

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Start Up Instructions

1. The motor must be securely and adequately grounded.
2. The power voltage must be correct. The motor rotating direction must be same as the arrow on motor end housing.
3. The grease/oil must be clean.
4. Fill the reservoir through fill cap and screen (oil).
Fill the reservoir through the grease fill fitting (grease).

Troubleshooting

Symptom	Possible Cause	Remedy
Pump does not deliver lubricant.	Reservoir is empty.	Fill up lubricant and run to charge elements.
	Electric connection of geared motor has been polarized in the wrong way.	Check pin connections.
Pump does not run.	Voltage is incorrect.	Check voltage.
	Voltage supply is interrupted.	Check voltage and the source.
There is no lubricant fed to the lubricant point.	Lubricant is flowing out of the pressure relief valve.	To find out which lubrication points and/or which lubrication point group is blocked, loosen pipe connections at pump elements one after the other. When the blocked bundle has been loosened, the pump must start running again. Localize the lubrication points concerned by loosening the connection lines.
		The failure may have been caused by dirt accumulation in the lubrication point, blocked up lubrication points or squeezed lines. To release air pocket, loosen pipe connections at pump elements and run pump until you have uninterrupted lubricant flow out of the elements.
Pump element does not deliver lubricant.	Pump element is inoperative.	By loosening the pipe connections at the pump you will find the pump element which does not deliver lubricant after the pump has been switched on. Dirt accumulation within the piston element is a possible reason for the failure.
		If removal and purification of the pump element do not result in an improvement, the pump element must be replaced by a new one.

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