

V5 Lubricator Assemblies

Automatic Continuous

Operation

The V5 Lubricator assemblies consist of a reservoir, low level switch, motor-driven gear pump, and threaded return port or return filter. Pump also includes a built-in flow bypass valve. (Constant volume) The fully automatic lubricating system is preset to max discharge from the factory. Discharge volume may be adjusted by turning the bypass valve counter-clockwise to reduce.

Technical Data

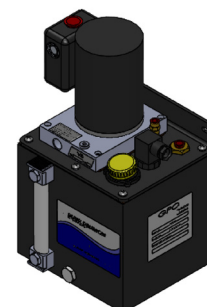
SINGLE PHASE	Motor Type	72123/72124/72125/ 72125-RF	CONTINUOUS DUTY, T.E.N.V.
		72126/72126-RF	CONTINUOUS DUTY, T.E.F.C.
	Motor Voltage	115 VAC	1/20 hp, NEMA Frame L330, continuous duty
	Frequency		60/50 Hz
	Speed		1725/1425 rpm (60/50Hz)
	Start Amperage		2.3/2.5 amp
	Run Amperage		0.78/0.67 amp (60/50Hz)
	Maximum Ambient Temperature		104°F (40°C)
	Pump Discharge		132cc/min (110cc/min 50 Hz)
	Pump Inlet filter		125 Micron
THREE PHASE	Relief Valve		130 psi
	Motor Type	72127/72127-RF	CONTINUOUS DUTY, T.E.F.C.
	Motor Voltage	230-240/400-415 VAC 50 Hz	0.10 / 0.08 hp 60/50 Hz
		260-280/440-480VAC 60 Hz	
	Frequency		60/50 Hz
	Speed		1480/1230 rpm 60/50 Hz
	Maximum Ambient Temperature		104°F (40°C)
	Pump Discharge		120cc/min (100cc/min 50 Hz)
	Pump Inlet filter		125 Micron
	Relief Valve		200 psi

Discharge Adjustment

The V5 Lubricator is fitted with a flow bypass valve (Constant volume). Pressure is limited internally to 130 psi by a relief valve (Some models limited to 200 psi). See page 23 for details.

System & Limitations

Use Type C control units. Viscosity range is 20 to 1500 cSt at operating temperature. See *Bijur Engineering Manual* for system limitations.



V5 72125

ATTENTION

Use clean oil only of the type and viscosity recommended by machine manufacturer.

ATTENTION

Replace filter group annually.

Refer to the following data sheets for available reservoirs:

- + Tech sheet #TS030
- V5W Replacements

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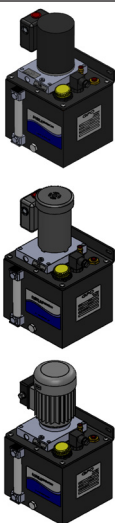
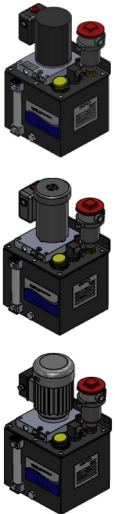
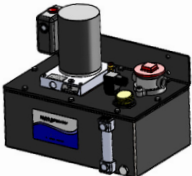
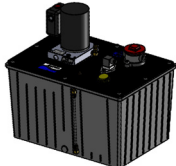
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V5 Lubricator Assemblies

Automatic Continuous

How to Order

	ASSEMBLY P.N.	SIZE	MOTOR VOLTAGE	LOW LEVEL	RETURN FILTER OR PORT
	72125	6 Liter	115VAC 1PH TENV	YES	1/4 NPTF RETURN PORT
	72126		115VAC 1PH TEFC		
	72127		230/480VAC 3PH TEFC		
	72125-RF	6 Liter	115VAC 1PH TENV	YES	RETURN FILTER
	72126-RF		115VAC 1PH TEFC		
	72127-RF		230/480VAC 3PH TEFC		
	72123	12 Liter	115VAC 1PH TENV	YES	RETURN FILTER
	72124	30 Liter	115VAC 1PH TENV	YES	RETURN FILTER

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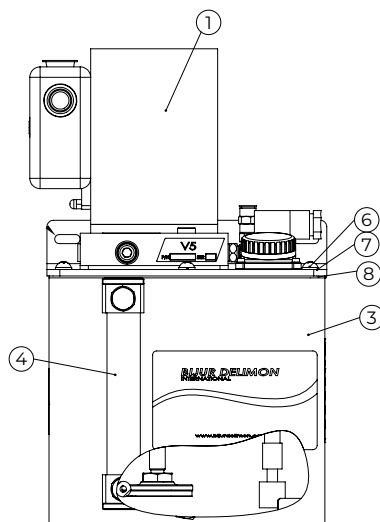
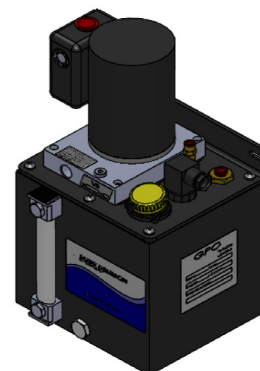
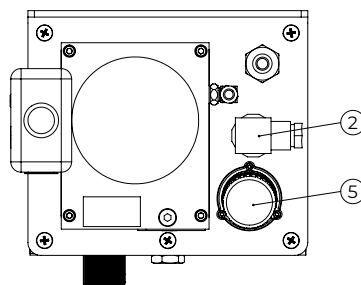
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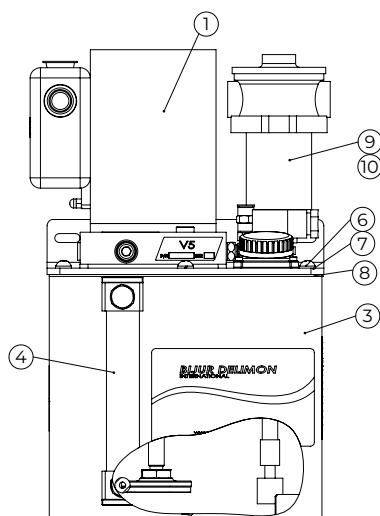
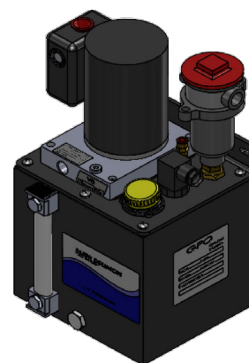
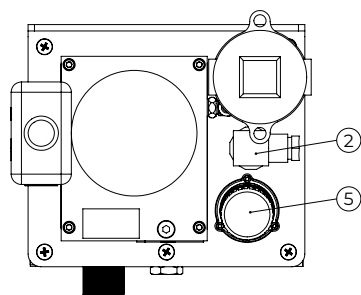
Service Parts 72125

Item	Description	Part #
1	Pump & Motor assembly	60747-7
2	Low Level Switch w/DIN	AC368-1
3	Reservoir Assembly	29165
4	Sight Gauge	24116-6
5	Filler Cap Assy with Screen	35150
6	1/4-20x5/8 Screw	HS283
7	Lock Washer	HW312
8	Reservoir Gasket	24041



Service Parts 72125-RF

Item	Description	Part #
1	Pump & Motor assembly	60747-7
2	Low Level Switch w/DIN	AC368-1
3	Reservoir Assembly	29165
4	Sight Gauge	24116-6
5	Filler Cap Assy with Screen	35150
6	1/4-20x5/8 Screw	HS283
7	Lock Washer	HW312
8	Reservoir Gasket	24041
9	Return-Filter Assy with Element	70808
10	Filter Element Only for 70808	AK161E



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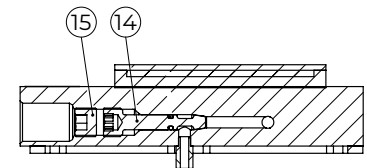
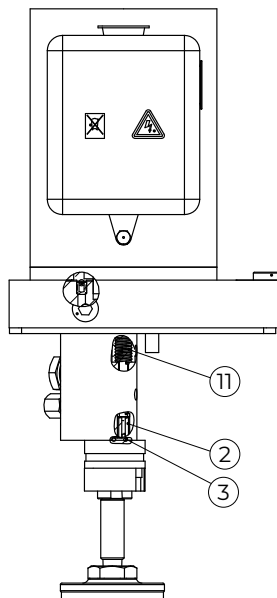
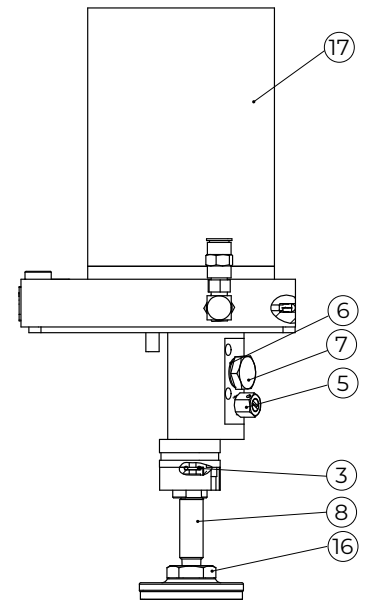
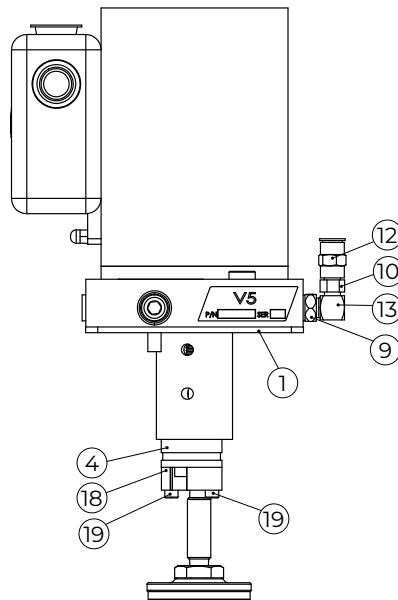
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Service Parts 60747-7

Item	Description	Part #
1	Gasket	B6903-1
2	Driveshaft Sleeve	25931
3	O-ring (2 Req'd)	34630
4	Gear Pump	25937-1
5	Relief Valve 130psi	B6898
6	Copper Washer	20913-3
7	Plug	23422
8	Connector Rod	B9632
9	Thread Adapter	B6131
10	Check Valve 2lb	B5880
11	Motor Coupling	60272
12	Coupling	B6539
13	Elbow Adapter	A2768
14	Bypass Screw Assy	60446
15	Lock Nut	23957
16	Inlet Filter Assy	B5909
17	Motor 115VAC TENV	36400
18	Pump Inlet Adapter	60715
19	Screw (2 Req'd)	AV15804030



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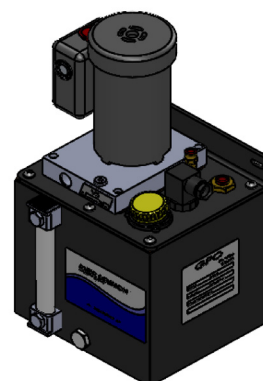
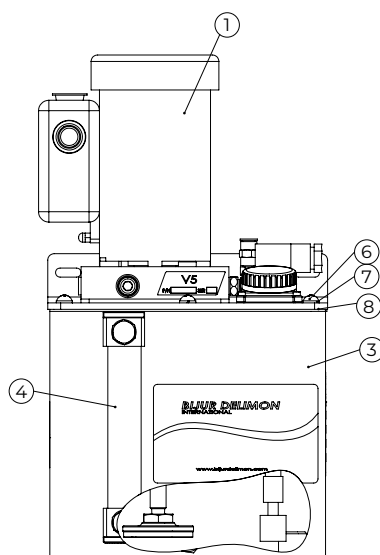
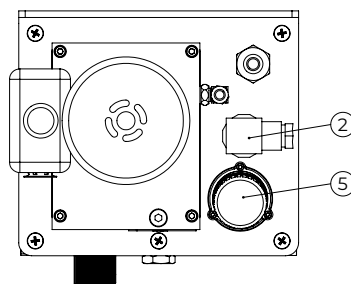
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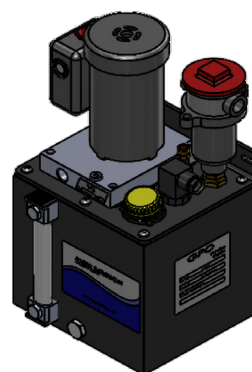
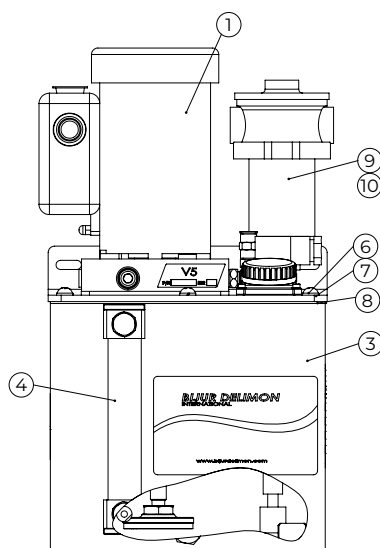
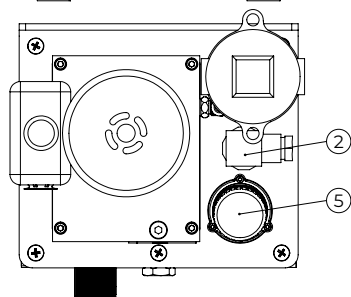
Service Parts 72126

Item	Description	Part #
1	Pump & Motor assembly	60747-8
2	Low Level Switch w/DIN	AC368-1
3	Reservoir Assembly	29165
4	Sight Gauge	24116-6
5	Filler Cap assy with Screen	35150
6	1/4-20x5/8 Screw	HS283
7	Lock Washer	HW312
8	Reservoir Gasket	24041



Service Parts 72126-RF

Item	Description	Part #
1	Pump & Motor assembly	60747-8
2	Low Level Switch w/DIN	AC368-1
3	Reservoir Assembly	29165
4	Sight Gauge	24116-6
5	Filler Cap assy with Screen	35150
6	1/4-20x5/8 Screw	HS283
7	Lock Washer	HW312
8	Reservoir Gasket	24041
9	Return-Filter assy with Element	70808
10	Filter Element Only for 70808	AK161E



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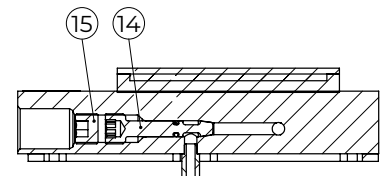
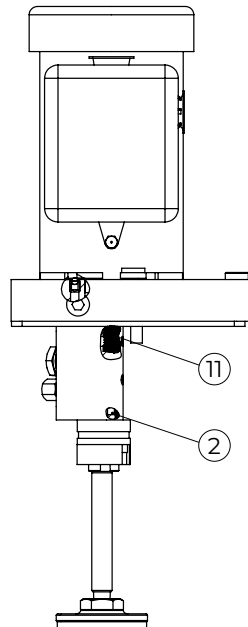
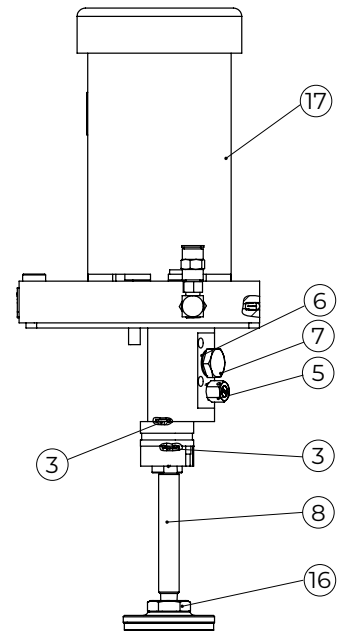
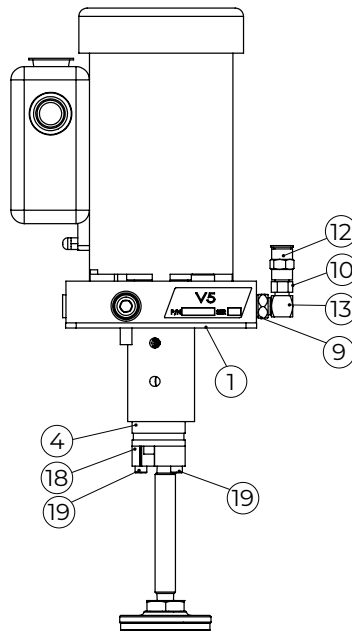
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Service Parts 60747-8

Item	Description	Part #
1	Gasket	B6903-1
2	Driveshaft Sleeve	25931
3	O-ring (2 Req'd)	34630
4	Gear Pump	25937-1
5	Relief Valve 130psi	B6898
6	Copper Washer	20913-3
7	Plug	23422
8	Connector Rod	B9632
9	Thread Adapter	B6131
10	Check Valve 2lb	B5880
11	Motor Coupling	60272
12	Coupling	B6539
13	Elbow Adapter	A2768
14	Bypass Screw Assy	60446
15	Lock Nut	23957
16	Inlet Filter Assy	B5909
17	Motor 115VAC TEFC	60361
18	Pump Inlet Adapter	60715
19	Screw (2 Req'd)	AV15804030



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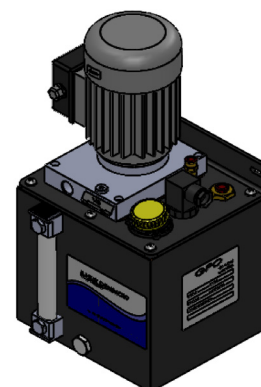
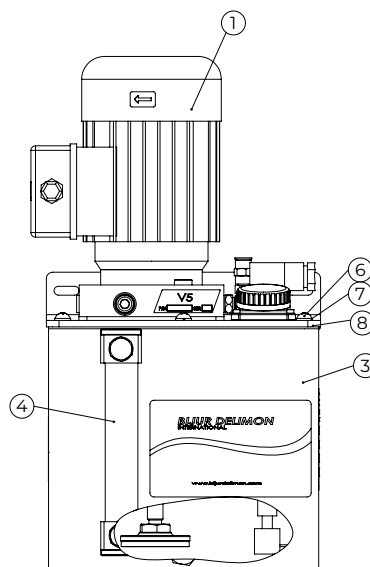
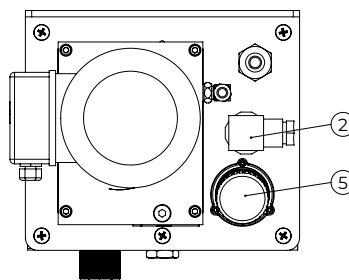
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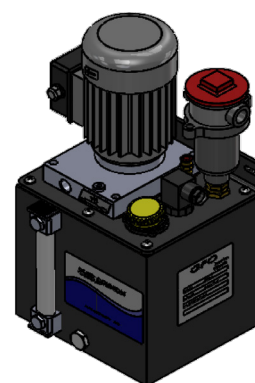
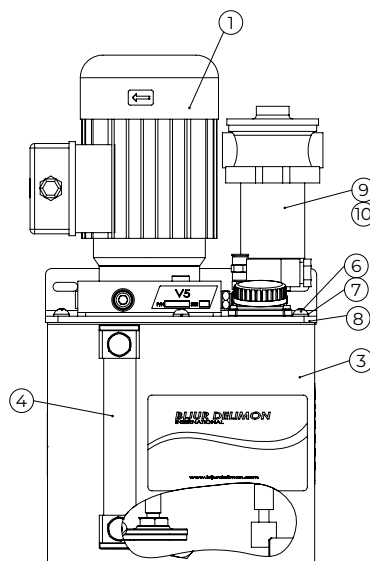
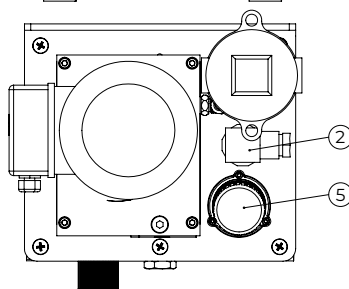
Service Parts 72127

Item	Description	Part #
1	Pump & Motor assembly	60102-1
2	Low Level Switch w/DIN	AC368-1
3	Reservoir Assembly	29165
4	Sight Gauge	24116-6
5	Filler Cap Assy with Screen	35150
6	1/4-20x5/8 Screw	HS283
7	Lock Washer	HW312
8	Reservoir Gasket	24041



Service Parts 72127-RF

Item	Description	Part #
1	Pump & Motor assembly	60102-1
2	Low Level Switch w/DIN	AC368-1
3	Reservoir Assembly	29165
4	Sight Gauge	24116-6
5	Filler Cap Assy with Screen	35150
6	1/4-20x5/8 Screw	HS283
7	Lock Washer	HW312
8	Reservoir Gasket	24041
9	Return-Filter Assy with Element	70808
10	Filter Element Only for 70808	AK161E



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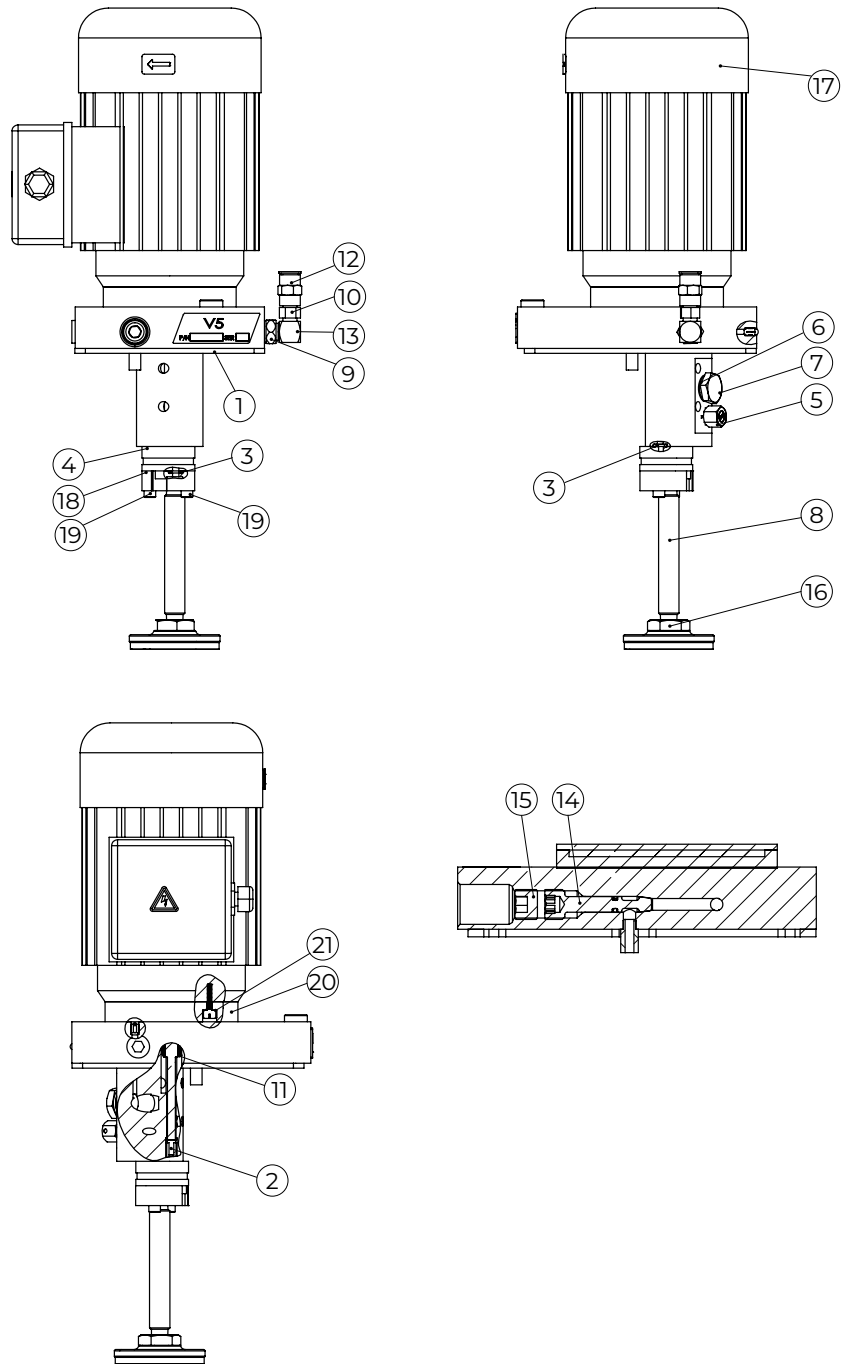
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Service Parts 60102-1

Item	Description	Part #
1	Gasket	B6903-1
2	Driveshaft Sleeve	25931
3	O-ring (2 Req'd)	34630
4	Gear Pump	25937-1
5	Relief Valve 200psi	B5643
6	Copper Washer	20913-3
7	Plug	23422
8	Connector Rod	B9632
9	Thread Adapter	B6131
10	Check Valve 2lb	B5880
11	Driveshaft Spring Coupling	34924
12	Coupling	B6539
13	Elbow Adapter	A2768
14	Bypass Screw Assy	60446
15	Lock Nut	23957
16	Inlet Filter Assy	B5909
17	Motor 3PH 230/480VAC TEFC	29019
18	Pump Inlet Adapter	60715
19	Screw (2 Req'd)	AV15804030
20	Motor Adapter Plate	29364
21	Socket Screw (3 Req'd)	AV15805016



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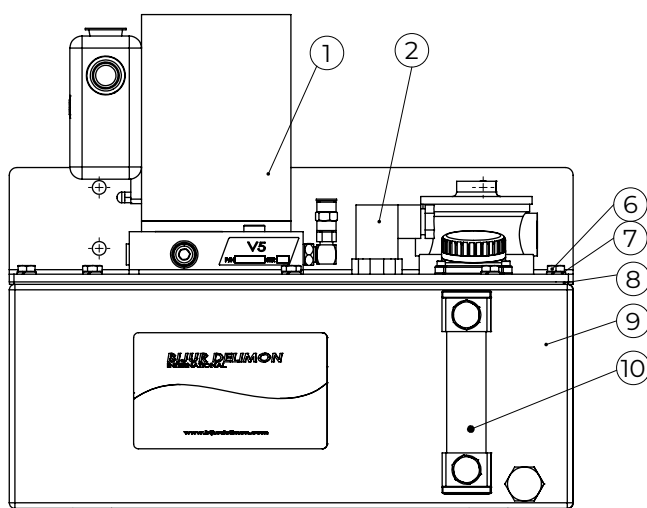
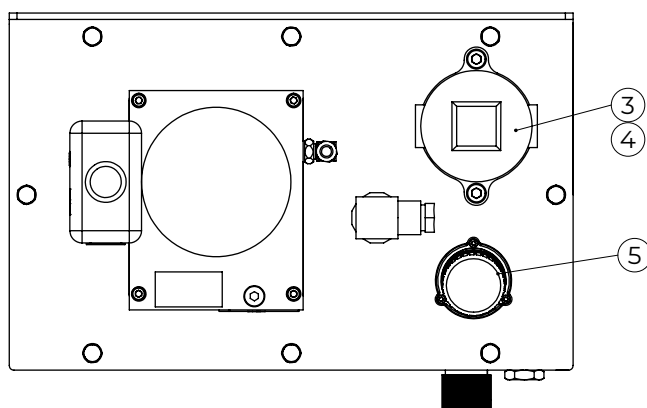
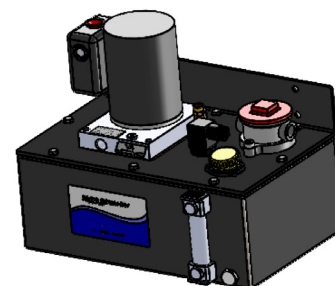
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Service Parts 72123

Item	Description	Part #
1	Pump & Motor assembly	60747-5
2	Low Level Switch w/DIN	AC368
3	Return-Filter assy with Element	AK161
4	Filter Element Only for AK161	AK161E
5	Filler Cap assy with Screen	35150
6	1/4-20x5/8 Hex Bolt	HS100
7	Lock Washer	HW312
8	Reservoir Gasket	17911
9	Reservoir Assembly	29166
10	Sight Gauge	19312



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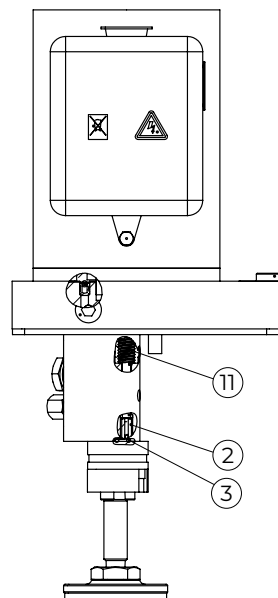
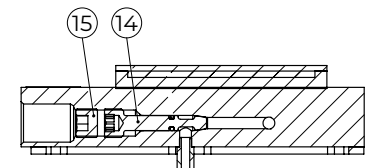
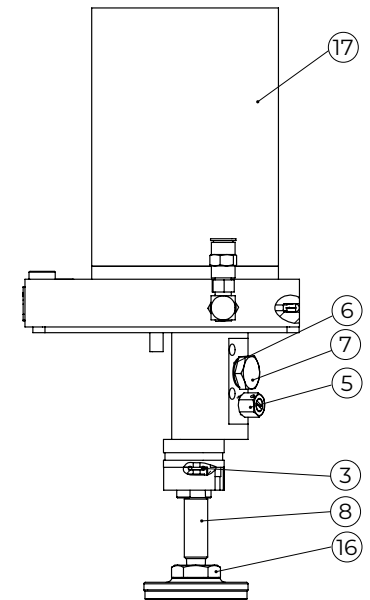
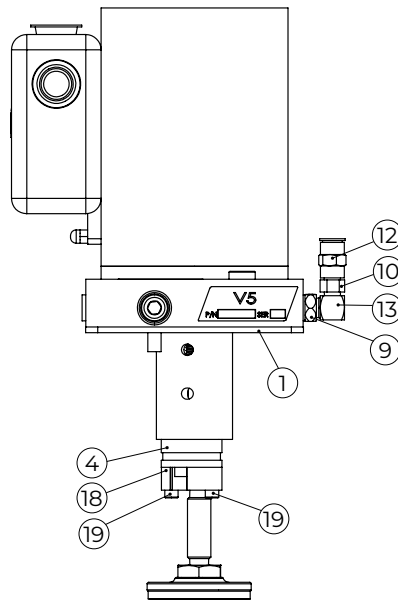
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Service Parts 60747-5

Item	Description	Part #
1	Gasket	B6903-1
2	Driveshaft Sleeve	25931
3	O-ring (2 Req'd)	34630
4	Gear Pump	25937-1
5	Relief Valve 130psi	B6898
6	Copper Washer	20913-3
7	Plug	23422
8	Connector Rod	B9641-7
9	Thread Adapter	B6131
10	Check Valve 2lb	B5880
11	Motor Coupling	60272
12	Coupling	B6539
13	Elbow Adapter	A2768
14	Bypass Screw Assy	60446
15	Lock Nut	23957
16	Inlet Filter Assy	B5909
17	Motor 115VAC TENV	36400
18	Pump Inlet Adapter	60715
19	Screw (2 Req'd)	AV15804030



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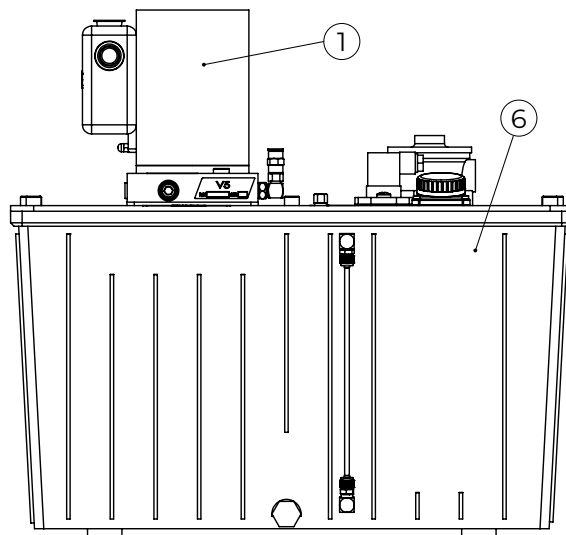
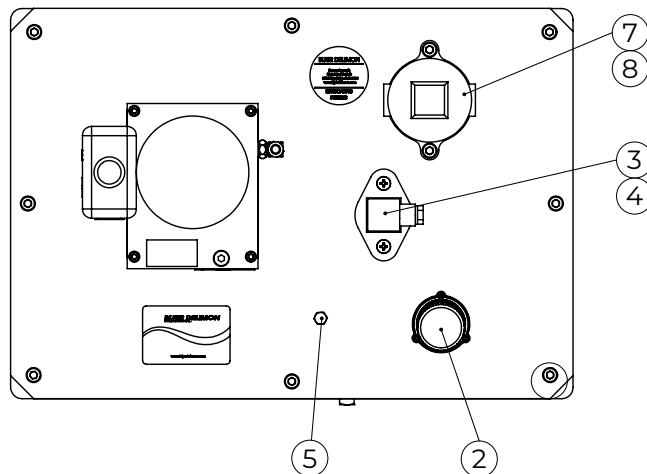
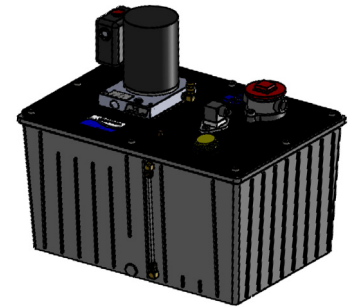
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Service Parts 72124

Item	Description	Part #
1	Pump & Motor assembly	60747-6
2	Filler Cap Assy with Screen	35150
3	Low Level Switch w/DIN	AC180-1
4	Low Level Switch Gasket	AD754
5	Vent Valve	B7745
6	Reservoir Assembly	AT3015
7	Return-Filter Assy with Element	AK161
8	Filter Element Only for AK161	AK161E



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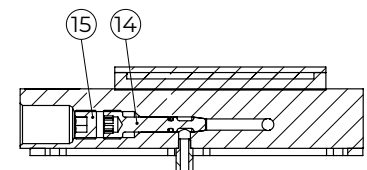
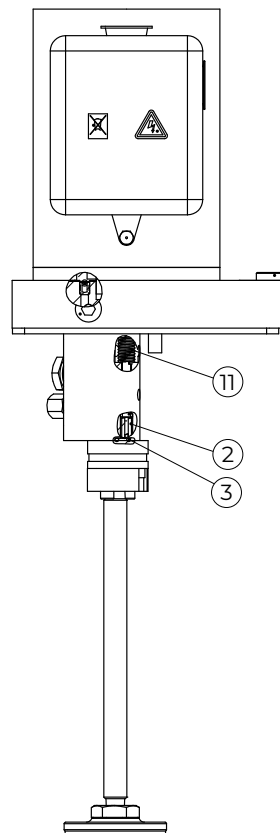
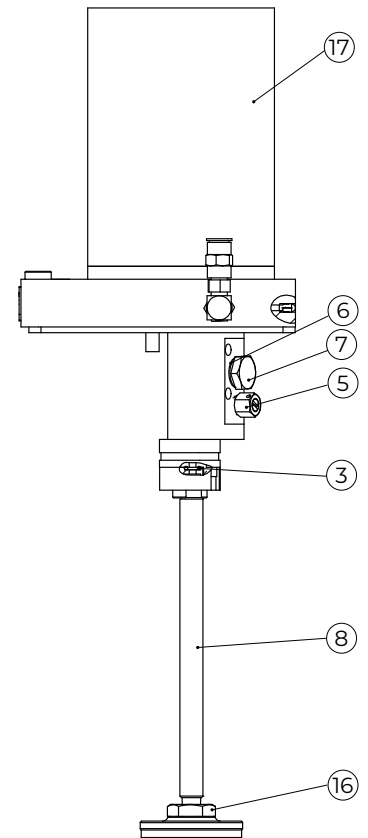
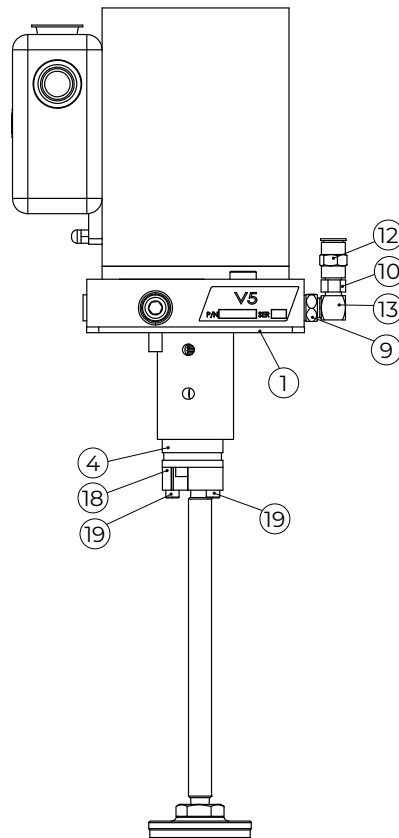
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Service Parts 60747-6

Item	Description	Part #
1	Gasket	B6903-1
2	Driveshaft Sleeve	25931
3	O-ring (2 Req'd)	34630
4	Gear Pump	25937-1
5	Relief Valve 130psi	B6898
6	Copper Washer	20913-3
7	Plug	23422
8	Connector Rod	B9641-8
9	Thread Adapter	B6131
10	Check Valve 2lb	B5880
11	Motor Coupling	60272
12	Coupling	B6539
13	Elbow Adapter	A2768
14	Bypass Screw Assy	60446
15	Lock Nut	23957
16	Inlet Filter Assy	B5909
17	Motor 115VAC TENV	36400
18	Pump Inlet Adapter	60715
19	Screw (2 Req'd)	AV15804030



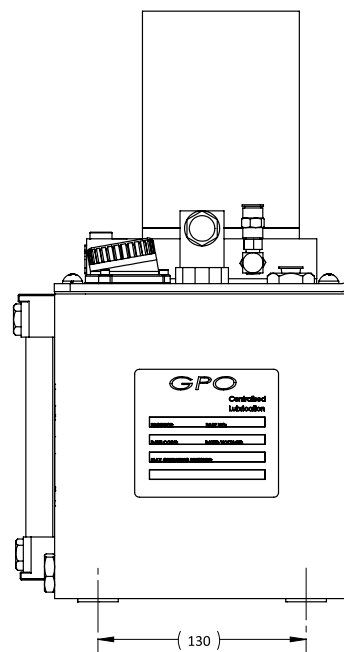
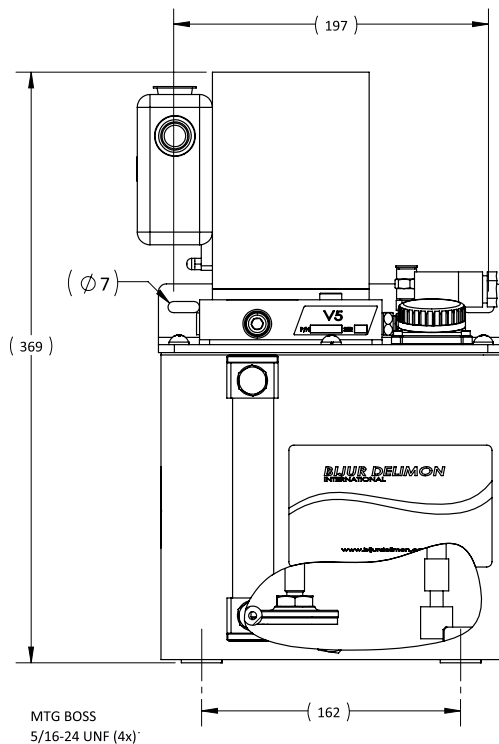
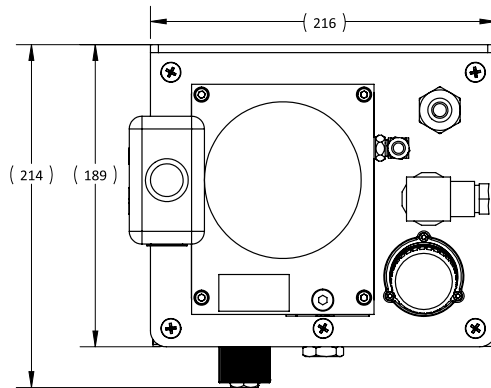
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Dimensional Schematics - 72125



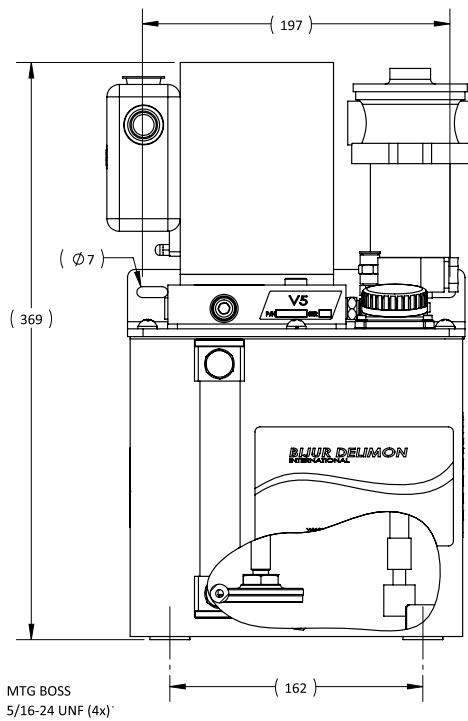
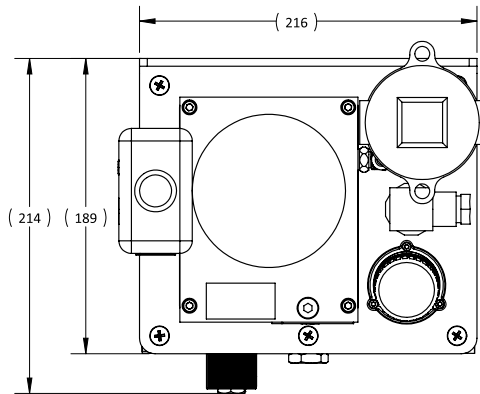
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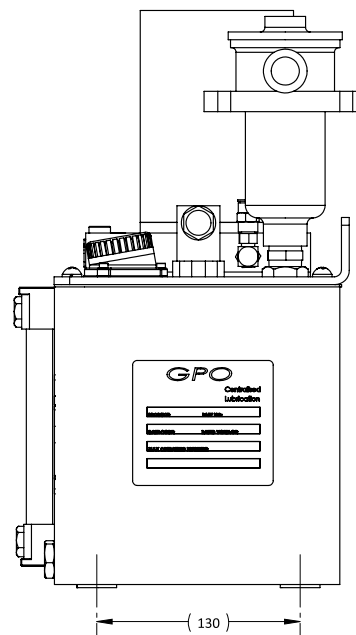
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Dimensional Schematics - 72125-RF



MTG BOSS
5/16-24 UNF (4x)



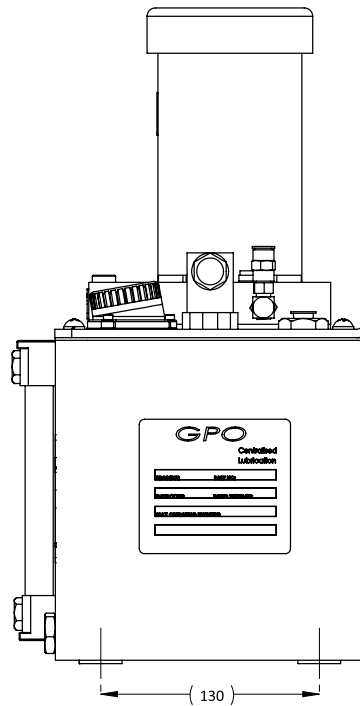
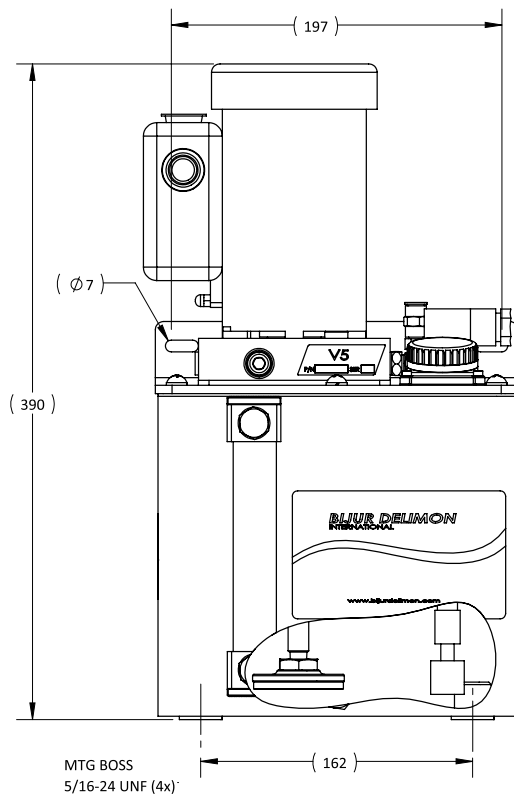
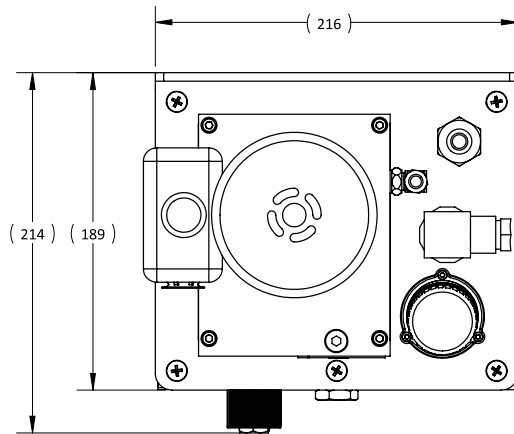
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Dimensional Schematics - 72126



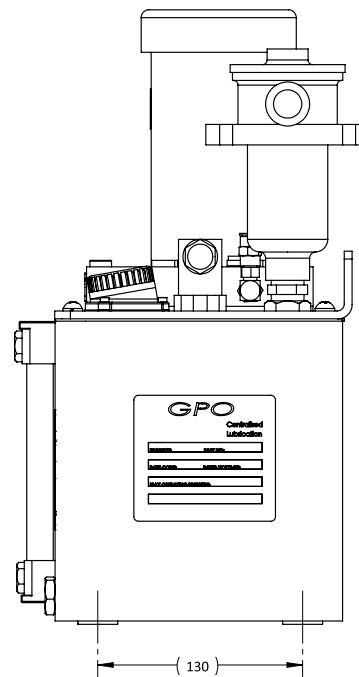
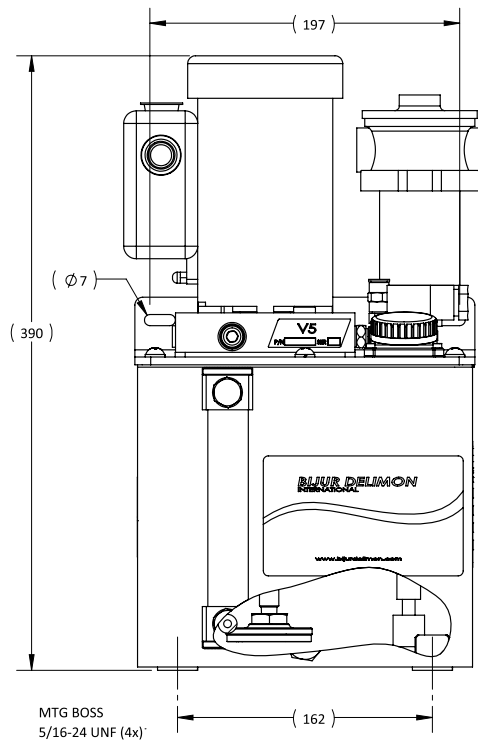
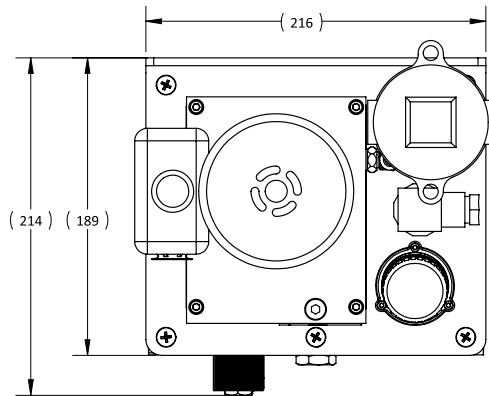
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Dimensional Schematics - 72126-RF



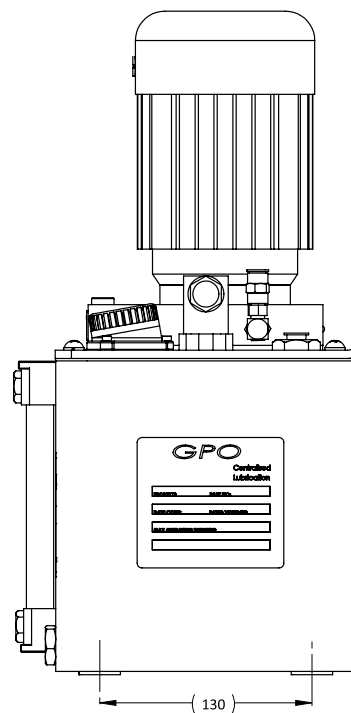
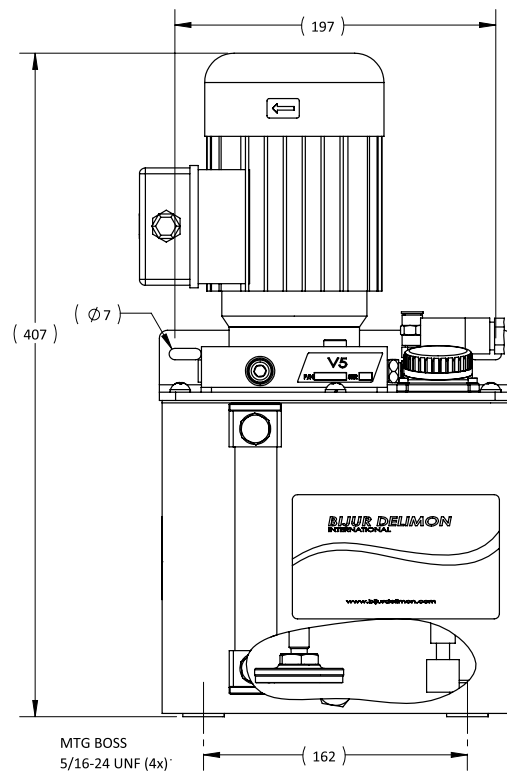
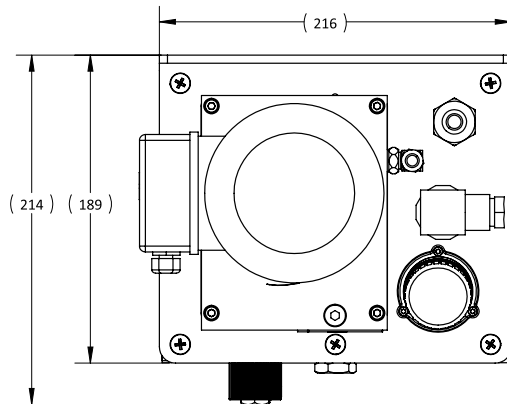
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Dimensional Schematics - 72127



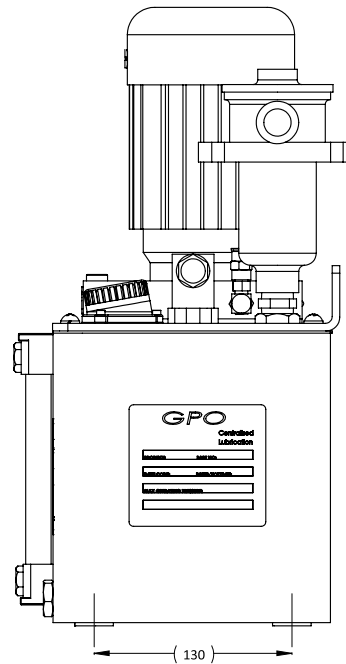
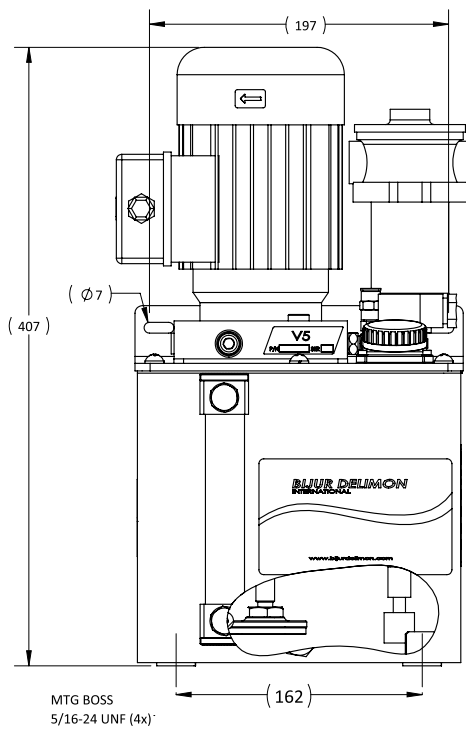
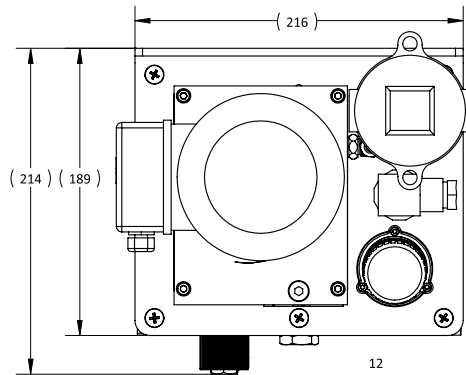
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Dimensional Schematics - 72127-RF



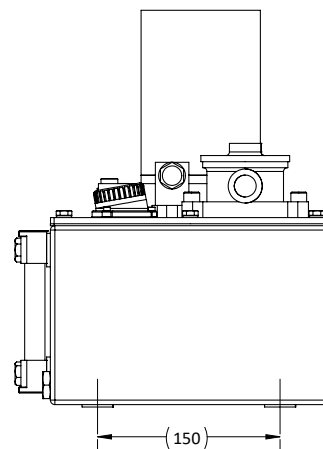
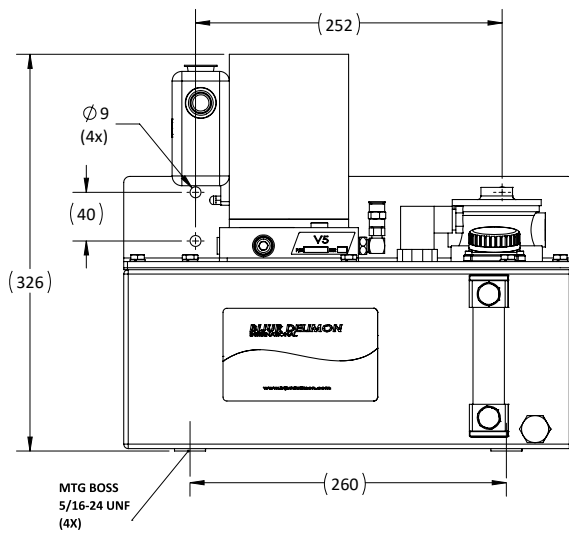
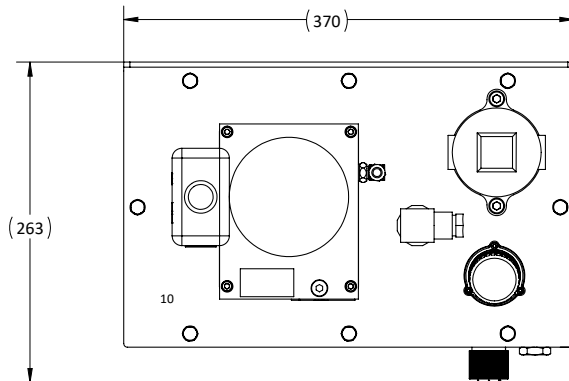
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Dimensional Schematics - 72123



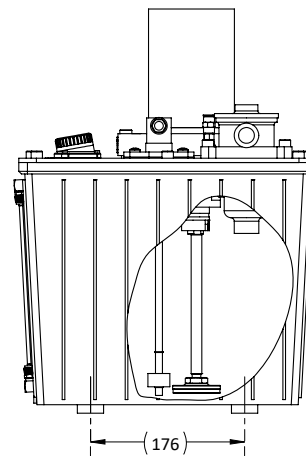
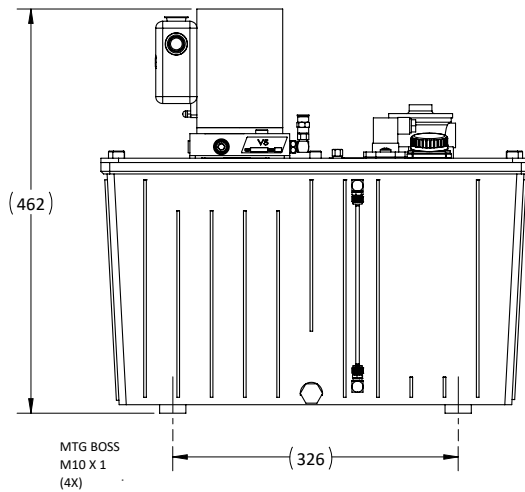
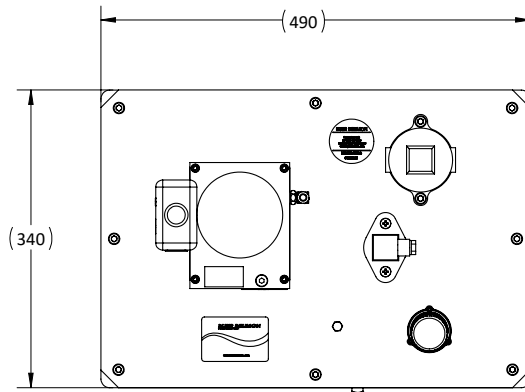
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Dimensional Schematics - 72124



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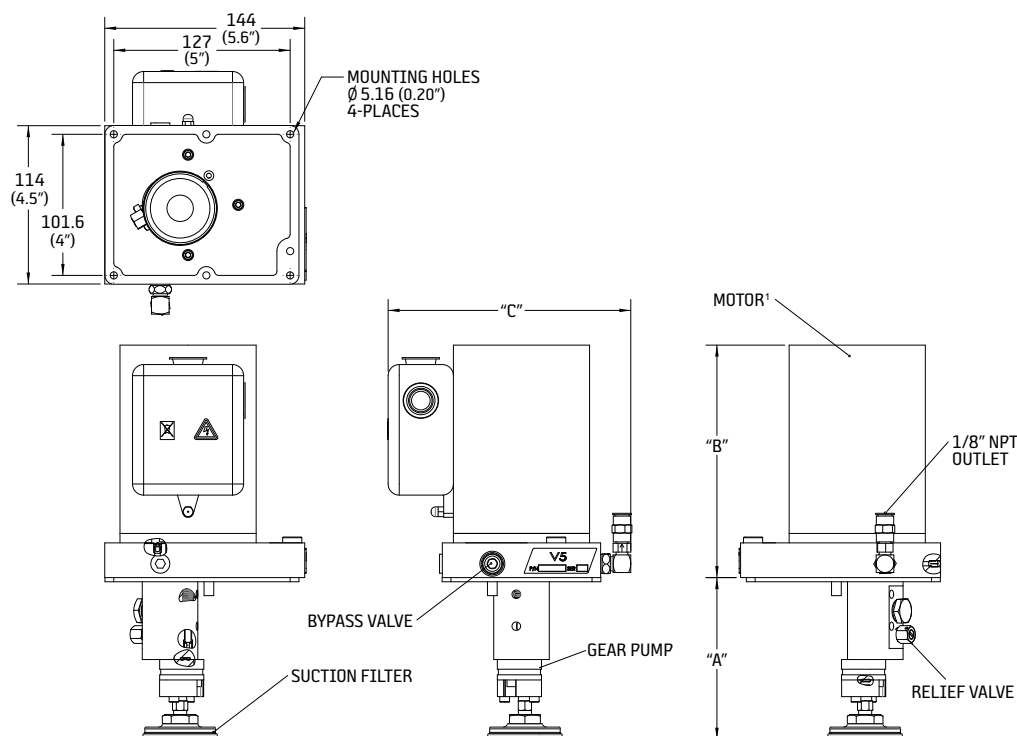
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Dimensional Schematics - Pump & Motor Assemblies

¹ Motor shape is Bijur Delimon's option.



Part #	A	B	C
60747-5	143mm (5.6")	167mm (6.6")	175mm (6.9")
60747-6	271mm (10.7")	167mm (6.6")	175mm (6.9")
60747-7	178mm (7")	167mm (6.6")	175mm (6.9")
60747-8	184mm (7.2")	188mm (7.4")	169mm (6.7")
60102-1	181mm (7.1")	205mm (8.1")	174mm (6.9")

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Startup Instructions

1. Fill reservoir with oil.
2. Start machine and see that oil flows at all bearings.

Maintenance

Check oil level daily and refill reservoir when required. Check the system periodically for loose or broken tubing, worn hoses, loose fittings and connections. Replace filter group annually.

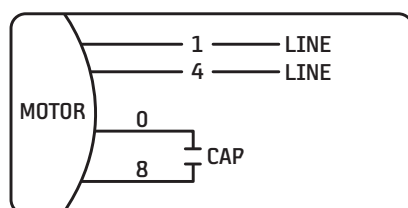
Filter Replacement

An inlet filter provides primary protection of the lubricating system. The filter should be inspected every six months. If not clean, replace.

Motor Replacement - Single Phase

1. Disconnect the electrical supply from the motor, disconnect system tubing and remove lubricator unit from the oil reservoir.
2. Turn the lubricator unit upside down and remove the filter inlet connector rod / filter from the pump by turning the hex of the filter carefully in a counter-clockwise direction. Also remove the inlet gear pump adaptor and O ring that connect the inlet filter rod to the gear pump.
3. Remove the two M4 SHC screws holding the gear pump to the downspout and remove the gear pump. Remove the three #8-32 socket cap screws holding the downspout onto the motor and lift the downspout clear from the motor.
4. Replace the motor and carefully re-assemble the motor driveshaft / motor coupling onto the new motor shaft. The motor coupling must be equally spaced between the motor driveshaft and the motor shaft.
5. Re- assemble the downspout onto the motor by carefully lining up the three holes and inserting and tightening the three #8-32 socket cap screws.
6. Re-assemble the gear pump to the downspout, ensuring that the shaft of the gear pump meshes with the motor driveshaft. Place the inlet gear pump adaptor and O ring onto the gear pump and then insert the two M4 SHC screws to hold in place.
7. Re-assemble the filter inlet connector rod / filter into the gear pump adaptor.

Motor Wiring - Single Phase



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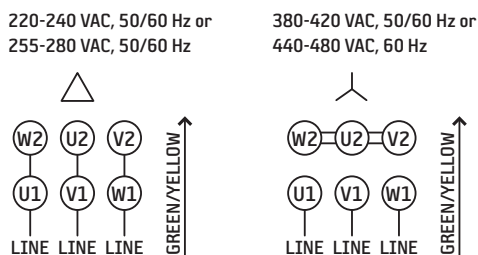
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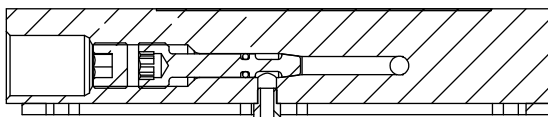
Motor Replacement - 3 Phase

1. Disconnect the electrical supply from the motor, disconnect system tubing and remove lubricator unit from the oil reservoir.
2. Turn the lubricator unit upside down and remove the filter inlet connector rod / filter from the pump by turning the hex of the filter carefully in a counter-clockwise direction. Also remove the inlet gear pump adaptor and O ring that connect the inlet filter rod to the gear pump.
3. Remove the two M4 SHC screws holding the gear pump to the downspout and remove the gear pump. Remove the three #8-32 socket cap screws holding the downspout onto the motor adaptor plate and lift the downspout clear from the motor / adaptor plate.
4. Remove the three M5 SHC screws that are holding the motor adaptor plate onto the motor and then carefully pull the motor driveshaft / motor coupling from the motor shaft.
5. Replace the motor and carefully re-assemble the motor driveshaft / motor coupling onto the new motor shaft. The motor coupling must be equally spaced between the motor driveshaft and the motor shaft.
6. Re-assemble the motor adaptor plate onto the motor and insert the three M5 SHC screws. Re-assemble the downspout onto the motor adaptor plate by carefully lining up the three holes and inserting and tightening the three #8-32 socket cap screws.
7. Re-assemble the gear pump to the downspout, ensuring that the shaft of the gear pump meshes with the motor driveshaft. Place the inlet gear pump adaptor and O ring onto the gear pump and then insert the two M4 SHC screws to hold in place.
8. Re-assemble the filter inlet connector rod / filter into the gear pump adaptor.

Motor Wiring - 3 Phase



Bypass Adjustments



Constant Volume - Flow Bypass

Lubricator is pre-set with by-pass valve closed for maximum discharge. To adjust the flow in the system remove the locking plug from the front of the pump using a 1/4" hex key. Adjust the screw in a clock-wise direction to increase the flow again using a 1/4" hex key or counter-clockwise to decrease the flow. Insert and tighten the locking plug after adjustment.

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