INSTRUCTIONS-PARTS LIST



306-994

Rev C SUPERSEDES B

This manual contains IMPORTANT WARNINGS and INSTRUCTIONS READ AND RETAIN FOR REFERENCE

Stainless Steel, Stubby Pumps for Pressure Washing

5:1 RATIO MONARK HYDRA-CLEAN® PUMPS

600 psi (42 bar) MAXIMUM WORKING PRESSURE

Model 207-873, Series C With Viton® and Teflon® packings

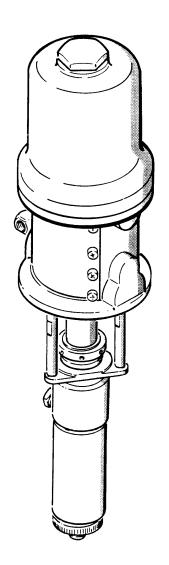
Model 205-638, Series C With polyethylene and rubber packings

-WARNING-

This pump is designed for use only in a pressure washing system in which water is the primary fluid being pumped. Any misapplication of the pump may cause dangerous operating conditions which can result in serious bodily injury and substantial property damage.

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WARNING

FOR PROFESSIONAL USE ONLY. OBSERVE ALL WARNINGS.

Read and understand all instruction manuals before operating equipment.

PERSONAL SAFETY

Fluid splashed or sprayed into the eyes or onto the skin can cause serious bodily injury. In addition, some cleaning solutions may be toxic and can cause chemical burns, skin irritations, and allergic reactions if inhaled or if they come in contact with the body or eyes. Always follow these precautions when operating your pressure washing system to reduce the risk of serious bodily injury.

NEVER point the Hydra-Clean gun at anyone or at any part of the body.

NEVER put your hand or fingers over the spray nozzle.

NEVER try to stop or deflect leaks with your hand or body.

ALWAYS wear protective eyewear and appropriate clothing to protect yourself from the overspray and the debris that is removed as you clean.

Read and follow the cleaning chemical manufacturer's recommendations on preparation and use of the cleaning solution, and the use of breathing apparatus and proper ventilation.

Hydra-Clean Gun Safety

ALWAYS engage the gun safety latch whenever you stop spraying, even for a moment. The latch makes the gun in-operative to prevent accidental triggering.

NEVER operate the gun with the trigger guard removed. The trigger guard helps prevent the gun from triggering accidentally if it is dropped or bumped.

USE EXTREME CAUTION when changing spray nozzles. Follow the **Pressure Relief Procedure**, below, and then change nozzles.

Pressure Relief Procedure

To reduce the risk of serious bodily injury from splashing in the eyes or on the skin, or injury from moving parts, always follow this procedure whenever you shut off the pump, when checking or servicing any part of the system, when installing or changing spray nozzles, and whenever you stop spraying.

- 1. Engage the Hydra-Clean gun safety latch.
- Close the pump air regulator.
- Close the bleed-type master air valve (required in your system).
- Disengage the gun safety latch and trigger the gun to relieve pressure.
- Open the pump drain valve (required in your system), having a container ready to catch the drainage.
- 6. Leave the valve open until you are ready to spray again.

FIRE OR EXPLOSION HAZARD

Static electricity is created by the flow of fluid through the pump and hose. When static electricity is discharged, sparking occurs. Sparks can ignite fumes from solvents, dust particles and any flammable substances in the area, whether you are spraying indoors or outdoors. This can result in a fire or explosion and cause serious bodily injury and substantial property damage.

Although water generally provides a natural electric ground, the pumps must be grounded if the cleaning chemicals are volatile. Check your local code for detailed grounding instructions for your area and type of equipment, and follow these precautions:

 When cleaning in enclosed areas, such as storage tanks, locate the pump and air compressor outside the area and well away from it. Provide adequate ventilation. If the area you are cleaning has stored flammable materials, take appropriate precautions to avoid static sparking. Consult your local codes. Ground the pump. Refer to the separate pump instruction manual, supplied.

- Ground the air compressor according to the manufacturer's recommendations and your local codes.
- If you experience any static sparking or even a slight shock while using this equipment, STOP CLEANING IM-MEDIATELY. Do not use the system again until the problem has been identified and corrected.

EQUIPMENT MISUSE HAZARD

General Safety

Any misuse of the spray equipment or accessories, such as overpressurizing, modifying parts, using incompatible chemicals and fluids, or using worn or damaged parts, can cause them to rupture, which may result in serious bodily injury, fire or explosion or property damage.

USE THIS PUMP ONLY for pumping water and water-diluted cleaning solutions. NEVER use the pump for paint or any other coatings.

NEVER alter or modify any part of this equipment; doing so could cause it to malfunction,

CHECK all cleaning equipment regularly and repair or replace worn or damaged parts immediately.

System Pressure

This pump develops 600 psi (41 bar) MAXIMUM WORKING PRESSURE at 120 psi (8 bar) Maximum Incoming Air Pressure. NEVER exceed these maximum air or fluid pressures.

Be sure that all accessories you add to the system are properly rated to withstand these pressures.

TYPICAL INSTALLATION

AB Pump Runaway Valve

Air Line Lubricator

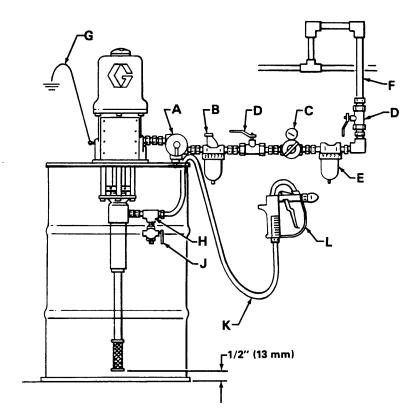
Air Regulator & Gauge Bleed-type Master Air Valve Air Line Filter

CDEF Air Hose

G **Ground Wire** Tee

Drain Valve Fluid Hose

Hydra-Clean Gun



INSTALLATION

NOTE:

Reference letters and numbers in parentheses in the text correspond to the callouts in the figure and parts drawings.

Accessories are shown on page 10.

The Typical Installation shown above is only a guide to selecting and installing required and optional components. For assistance in designing a system to suit your needs, contact your Graco representative.

Mounting the Pump

This pump is designed for mounting on the side of an open-head, 55 gallon drum, or on a wall bracket. The suction hose should be 1/2 in. (13 mm) off the bottom of the drum. Mount the pump to suit the type of installation planned. The pump dimensions and mounting hole layout are shown on page 11.

Air Line

Starting from the pump inlet, install a pump runaway valve (A). This valve senses when a pump is running too fast and shuts it off. Install an air line lubricator (B) for automatic air motor lubrication. For manual lubrication, see page 4.

Install an air regulator and gauge (C) to control pump speed and pressure. Install a bleed-type master air valve (D) to relieve pressure in the pump during shutdown. Install an air line filter (F) to remove harmful moisture and contaminants from the air supply.

Fluid Line

Close to the 1/2 npt(f) fluid outlet, install a tee (G) and a fluid drain valve (J). Then install a fluid hose (K) and Hydra-Clean gun (L).

-WARNING-

Two accessories are required in your system: a bleed-type master air valve (D) and a fluid drain valve (J). These accessories help reduce the risk of serious bodily injury from splashing in the eyes or on the skin, and injury from moving parts if you are adjusting or repairing the pump.

The bleed-type master air valve relieves air trapped between this valve and the pump after the air regulator is shut off. Trapped air can cause the pump to cycle unexpectedly. Locate the valve close to the pump air inlet.

The fluid drain valve assists in relieving fluid pressure in the displacement pump, hose and gun; triggering the gun to relieve pressure may not be sufficient.

-WARNING-

Pressure Relief Procedure

To reduce the risk of serious bodily injury splashing in the eyes or on the skin, or injury from moving parts, always follow this procedure whenever you stop spraying or shut off the pump, and before checking or servicing any part of the system or installing or changing spray nozzles.

1. Engage the Hydra-Clean gun safety latch.

2. Close the pump air regulator.

3. Close the bleed-type master air valve.

- Disengage the gun safety latch and trigger the gun to relieve pressure. Engage the safety latch again.
- 5. Open the pump drain valve, having a container ready to catch the drainage.
- 6. Leave the valve open until you are ready to clean again.

Flush the Pump Before Using

This pump is tested in lightweight oil which is left in to protect the pump from corrosion. To prevent contamination of cleaning solvent, flush the pump with a compatible solvent before using it.

Mixing the Cleaning Solution

If you are adding a cleaning chemical to the water, mix it thoroughly with a few gallons of water in a separate container before adding to the drum. Be sure all particles are well dissolved. Read and follow the cleaning chemical manufacturer's recommendations on mixing and application of the solution.

Startup

- Fill the drum with water and the desired, premixed cleaning solution.
- 2. Close the pump fluid drain valve (J).
- With the regulator (C) closed, open the bleed-type master air valve (D).
- Trigger the gun (16) into the supply drum while slowly opening the air regulator until the pump is running slowly and smoothly.
- When all air is purged from the pump and hose, release the gun trigger and engage the safety latch.
- Adjust the air line lubricator (B) to feed 1 to 3 drops of oil per hour. See the instructions supplied with the lubricator.
- Adjust the pump runaway valve, if used, according to the instructions supplied with it.
- With the pump primed and an adequate volume of air supplied, the pump will run when the gun is triggered and stop when the trigger is released.

CAUTION -

Always use the lowest pressure necessary to get good results. High pressures usually do not increase performance, but do cause premature wear of the spray nozzle and pump.

-WARNING-

To reduce the risk of overpressurizing the pump or system components, which can result in equipment rupture and cause serious bodily injury, NEVER exceed 120 psi (8 bar) Air Pressure to the pump. Decrease the air pressure to lower the fluid outlet pressure if any accessory in your system is rated lower than the pump.

Never allow the pump to run dry of water. A dry pump quickly accelerates to a high speed and may damage itself. If your pump accelerates quickly or is running too fast, stop it immediately and replenish the fluid supply. A pump runaway valve installed near the pump air inlet can prevent this condition.

-CAUTION -

The maximum operating temperature for an immersed fluid pump is 480°F (248°C). Graco will not be responsible for excessive wear due to pumping abrasive or corrosive fluids unless it has specifically recommended such fluids for use in this pump.

MAINTENANCE

Shutdown and Care of the Pump

Always stop the pump at the bottom of its stroke to prevent fluid from drying on the rod and damaging the packings when the pump is restarted.

Always follow the **Pressure Relief Procedure Warning**, above right, when you stop spraying.

After every 40 hours of operation, check the packing nut tightness. Follow the **Pressure Relief Procedure Warning** first, and then check and adjust the nut until it is just snug. Overtightening may damage the packings.

Check the air line lubricator regularly and keep it filled.

Remove the air line filter (E) daily and clean it. Check it for damage that may allow contaminants to enter the pump, and replace it if necessary.

To manually lubricate the motor, each day disconnect the air line at the motor and place 10 to 15 drops of oil in the inlet. Reconnect the air line and turn on the air to blow oil into the motor.

TROUBLESHOOTING CHART

-WARNING-

Follow the **Pressure Relief Procedure Warning** on page 4, before performing any troubleshooting or service procedures.

To reduce the risk of serious bodily injury, NEVER operate the pump with the air motor plate removed. The moving piston behind the plate can pinch or amputate fingers.

NOTE: Check all possible remedies before disassembling the pump.

PROBLEM	CAUSE	SOLUTION
Pump does not operate, or no fluid flow	Loose or broken pump parts	Disassemble, check, repair
of he hald flow	Restricted line or inadequate air supply	Clear, increase
	Exhausted fluid supply	Refill and prime
	Clogged fluid hoses	Clean, or replace
	Fluid intake or piston valves need adjustment	Adjust
	Damaged air motor	Repair; see 307-043
Pump operates but output is low	Insufficient air supply	Increase
	Exhausted fluid supply	Refill and prime
	Obstructed gun or dispensing valve	Clear
	Damaged fluid pump packings	Replace
	Held open or worn piston or intake valve	Repair; see page 6
Erratic or accelerated operation	Exhausted fluid supply	Refill and prime
	Fluid intake or piston valve worn	Repair; see page 6

Before you repair the pump:

- Be sure you have all the necessary repair parts on hand to reduce down time.
- A packing repair kit is available. Refer to the parts page. For the best results, use all the parts in the kit. Reference numbers with a star, for example (*13) indicate that the part is included in the repair kit.
- 3. If you are not using a repair kit, be sure to replace the glands when replacing the packings.
- 4. Clean all parts as you disassemble the pump, and inspect them for wear or damage. Replace parts as needed. Scoring or irregular surfaces on the displacement rod or polished inner wall of the cylinder causes premature packing wear and leaking. Check these parts by rubbing a finger on the surface and by holding the parts up to a light at a slight angle.
- Stop the pump at the bottom of its stroke, if possible. Follow the Pressure Relief Procedure Warning on page 4. Remove all hoses from the pump and remove the pump from its mounting.

-WARNING-

To reduce the risk of serious bodily injury, always follow the **Pressure Relief Procedure Warning** on page 4 before removing the pump from its mounting or servicing any part of the system.

Removing the Displacement Pump from the Motor (See Fig 3)

NOTE: If you are only repairing the intake valve or piston, the pump can remain attached to the motor.

- 1. Remove the three tie rod locknuts (25).
- Remove the cotter pin (24) at the top of the displacement rod.
- Unscrew the displacement rod (12) from the air motor and pull the pump away from the tie rods.

Intake Valve Repair (See Fig 3)

- Unscrew the intake valve (17). Remove the ball stop pin, ball and o-ring.
- Clean and inspect the intake valve. If there are nicks or deep scratches on the ball seat or ball, replace these parts or the ball may not properly seal when the intake valve is closed. This results in a loss of pressure at the fluid outlet.
- Install the new ball (5*) and ball stop pin (10). Place a new o-ring (6*) around the intake valve and screw the assembly tightly into the cylinder (16).

Piston Repair (See Fig 3)

- 1. With the intake valve removed, unscrew and remove the cylinder (16).
- 2. Remove one cotter pin (4) and the piston ball stop pin (14).

- Place a 1/2 in. diameter rod through the large holes in the piston (18). Hold the flats at the top of the displacement rod with a wrench. Use the rod to screw the piston off the rod.
- 4. Remove the ball, bearing, seal, etc.
- Inspect the piston seat for nicks which could prevent the ball from seating properly. Replace if necessary.

NOTE: If no further service is needed, reassemble the pump.

- 6. Wrap the bearing (15*) around the bottom of the piston (18) leaving a 0.01 to 0.05 in. (0.5-1.3 mm) gap where it joins.
- 7. Install the washer (19), packing (22*) and ball (5). Install the ball stop pin (14) and cotter pin (4*). Install the o-ring (7*) in the outlet housing cavity.
- 8. Hold the displacement rod with a wrench and use the 1/2 in. diameter rod to screw the piston into the rod.
- Install the cylinder (16), o-ring (6) and intake valve assembly.

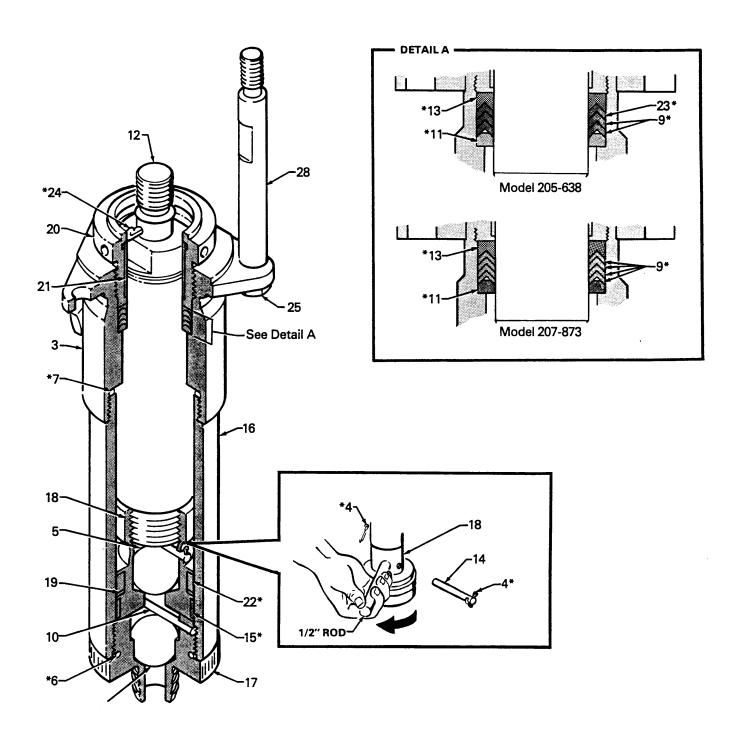
Throat Repair (See Fig 3)

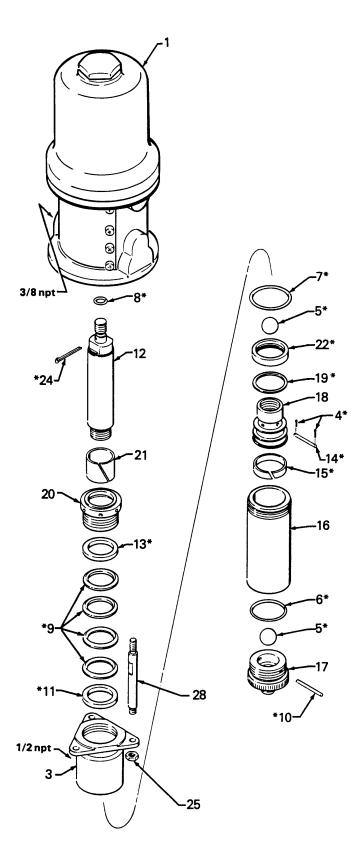
- If you have not already done so, remove the displacement pump from the motor.
- 2. Remove the intake valve assembly.
- Loosen the packing nut (20). Push the displacement rod (12) down until the piston is exposed.
 Grasp the piston and pull the rod down and out of the cylinder (16).
- Remove the packing nut, glands and packings from the throat of the pump outlet housing. Remove the bearing from the packing nut.
- 5. Clean and inspect parts.
- Pump 207-873: One at a time, place the male gland (11*), four v-packings (9*), and a female gland (13*) in the pump outlet housing.

Pump 205-638: One at a time, place the male gland (11*), two rubber packings (9*), one polyethylene packing (23*) and a female gland (13*) in the pump outlet housing.

- 7. Install the bearing (21) in the packing nut (20), leaving a 0.02 to 0.05" (0.5 to 1.3 mm) gap in the bearing. Loosely install the packing nut.
- 8. Lubricate the rod with lightweight grease and slide it into the pump from the bottom of the cylinder.
- Place a new o-ring (8*) on the top of the rod, and screw the rod firmly into the motor. Align the tie rods with the pump housing, and install the screws (25). Reinstall the intake valve.

NOTE: Reconnect the pump ground wire if it was disconnected during repair.





5:1 Ratio Monark Pump with Viton® and Teflon® Packings

Model 207-873, Series C Includes items 1 to 28

	PART NO.	DESCRIPTION	QTY
1	205-997	AIR MOTOR	
2	207-874	See 307-043 for parts DISPLACEMENT PUMP	1
_		Includes items 3-22	1
3		.OUTLET HOUSING, pump	
4		.PIN, cotter; 1/16" dia; 1" lg	,
5	**101-917	.BALL, stainless steel; 7/8" dia	1 2 2 1
5	*102-861	.SEAL, o-ring, Viton®	1
7	*102-867	.SEAL, o-ring, Viton®	i
8	*156-082	.SEAL, o-ring, nitrile rubber	1
9	*162-866	.V-PACKING, Teflon®	4
10	**162-947	.PIN, ball stop; fluid intake valve	i
11	*164-837	.GLAND, male; throat	i
12	165-285	.ROD, displacement	i
13			i
14	**165-291	.PIN, ball stop; piston	1
15	*165-292	.BEARING, Teflon®	1
16	165-294	.CYLINDER, pump	1
17	165-296	.HOUSING, intake valve	1
18	166-510	.HOUSING, piston	1
19	*166-512	.BACKUP, Teflon® washer	1
20	168-284	.NUT, packing	1
21	*168-285	.BEARING, sleeve	1
22	*168-506		1
24	**101-946	PIN, cotter; 1/8" dia; 1-1/2" lg	1 1 1
25	102-021	LOCKNUT, hex; 3/8-16	3
28	165-297	ROD, tie	3

307 Number in description refers to a separate instruction manual, supplied.

Refer to "How To Order Replacement Parts" on page 10.

207-917 Displacement Pump Repair Kit (Must be purchased separately)

Consists of:

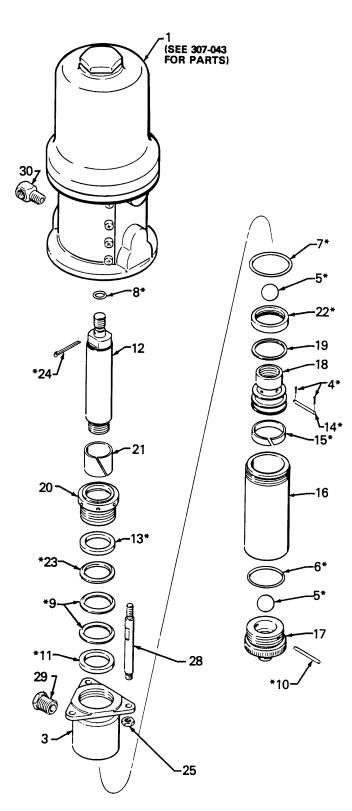
Ref No. Qty.

4 1
5 1
7 1
8 1
9 4
11 1
13 1
15 1
19 1
21 1

NOTE: Bearing 165-287 which is included in this repair kit is not used in this pump.

^{*}Included in Repair Kit 207-917.

^{**}Recommended "tool box" spare parts. Keep on hand to reduce down time.



5:1 Ratio Monark Pump with Polyethylene and Rubber Packings

Model 205-638, Series C Includes items 1 to 28

	PART NO.	DESCRIPTION	QTY
1	205-997		
_	000.000	See 307-043 for parts	1
2	206-000		
2	Series A	Includes items 3-23	1
3 4	205-999		1
4	*100-063		2
5 6 7	**101-917		2 2 1
7	**165-295		
8	**162-942		1
9	156-082	.O-RING; nitrile rubber	1
10	*166-133		4
11	**162-947		1
12	*164-837		1
13	165-285	ROD, displacement	1
14	*165-288	GLAND, female; throat	1
15	**165-291	.PIN, ball stop; piston	1
16	*165-292	.BEARING, Teflon® piston	1
17	165-294	CYLINDER, pump	1
	165-296	HOUSING, intake valve	1
18	166-510	.HOUSING, piston	1
19	*166-512	.BACKUP, Teflon® washer; piston	1
20	168-284	.NUT, packing	1
21	*168-285	.BEARING, sleeve	1
22	164-627	.SEAL, piston, buna-N	1
23	*170-625	.V-PACKING; polyethylene	1
24	**101-946	PIN, cotter; 1/8" dia; 1-1/2" lg	1
25	102-021	LOCKNUT, hex; 3/8-16	1 3 3 1
28	165-297	ROD, tie	3
29	102-022		1
30	155-699	ELBOW, 90° street; 3/8 npt	1
207 4		dans to the contract of the co	

307 Number in description refers to a separate instruction manual, supplied.

Refer to "How To Order Replacement Parts" on page 10.

206-923 Displacement Pump Repair Kit (Must be purchased separately)

Consists of:

IS OT:	_
Ref No.	Qty.
4	2
9	2
11	1
13	1
15	1
19	1
21	1
22	1
23	1

NOTE: Bearing 165-287 which is included in this repair kit is not used in this pump.

^{*}Included in Repair Kit 206-923.

^{**}Recommended "tool box" spare parts. Keep on hand to reduce down time.

ACCESSORIES (Must be purchased separately)

AIR LINE LUBRICATOR 214-848

250 psi (17.5 bar) MAXIMUM WORKING PRESSURE 1/2 npt Inlet and Outlet

it Inlet and Outlet

GROUNDING CLAMP 103-538

GROUND WIRE 208-950 25 ft (7.6 m) length. For grounding pump.

ngth. Dump.

HYDRA-CLEAN® GUN 208-008

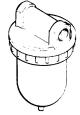
1000 psi (70 bar) MAXIMUM WORKING PRESSURE For use in pressure washing systems.



AIR LINE FILTER 106-149

250 psi (17 bar) MAXIMUM WORKING PRESSURE

1/2 npt Inlet and Outlet



AIR PRESSURE REGULATOR and GAUGE 202-858 200 psi (14 bar) MAXIMUM WORKING PRESSURE

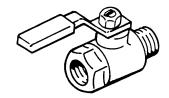
1/2 npt Inlet and Outlet



BLEED-TYPE MASTER AIR VALVE (Required)
300 psi (21 bar) MAXIMUM WORKING PRESSURE

Relieves air trapped in the air line between the pump air inlet and this valve when closed.

107-141 3/4 npt(m \times f) inlet & outlet 107-142 1/2 npt(m \times f) inlet & outlet



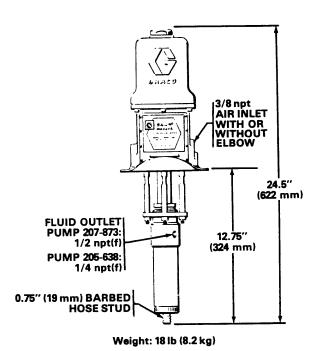
HOW TO ORDER REPLACEMENT PARTS

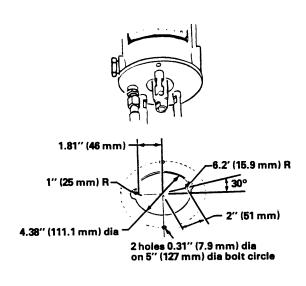
- To be sure you receive the correct replacement parts, kit or accessories, always give all of the information requested in the chart below.
- 2. Check the parts list to identify the correct part number; do not use the ref. no. when ordering.
- 3. Order all parts from your nearest Graco distributor.

6 digit PART NUMBER	QTY	PART DESCRIPTION

SERVICE INFORMATION NOTE:

Manual updated to improve text.





TECHNICAL DATA

Fluid pressure ratio:5:1

Air pressure operating range: 40-120 psi (2.8-8.4 bar) Maximum fluid outlet pressure: 600 psi (42 bar)

Delivery (continuous duty): 2-1/2 gpm (10 I/min) Delivery (intermittent duty):5 gpm (19 l/min)

Cycles per gallon: 28 Cycles per liter:8

Air motor effective diameter: 3 in. (76 mm) Stroke: 3 in. (76 mm)

Maximum recommended pump speed: 66 cycles per minute

Maximum operating temperature of fluid pump: 480°F (249°C) Maximum operating temperature of air motor: 200°F (90°C)

Air consumption: Approximately 8.2 cfm (0.23 m³/min) at 1 gpm (3.8 l/min)

at 100 psi (7 bar)

Wetted parts

205-638:303 & 304 stainless steel, Teflon, polyethylene, nitrile

rubber

207-873:303 & 304 stainless steel; Viton, Teflon®

Viton® and Teflon® are registered tradenames of the Du Pont Company.

THE GRACO WARRANTY AND DISCLAIMERS

WARRANTY

Graco warrants all equipment manufactured by it and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. As purchaser's sole remedy for breach of this warranty, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment proven defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for, any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility with Graco equipment of structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective for examination by Graco to verify the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the the costs of parts, labor and transportation.

DISCLAIMERS AND LIMITATIONS

DISCLAIMERS AND LIMITATIONS
THE TERMS OF THIS WARRANTY CONSTITUTE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AND ARE IN LIEU OF ANY OTHER WARRANTIES (EXPRESS OR IMPLIED), INCLUDING WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY NON-CONTRACTUAL LIABILITIES, INCLUDING PRODUCT LIABILITIES, BASED ON NEGLIGENCE OR STRICT LIABILITY. EVERY FORM OF LIABILITY FOR DIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS IS EXPRESSLY EXCLUDED AND DENIED. IN NO CASE SHALL GRACO'S LIABILITY EXCEED THE AMOUNT OF THE PURCHASE PRICE. ANY ACTION FOR BREACH OF WARRANTY MUST BE BROUGHT WITHIN TWO (2) YEARS OF THE DATE OF SALE.

EQUIPMENT NOT COVERED BY GRACO WARRANTY

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ACCESSORIES, EQUIPMENT, MATERIALS, OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motor, switches, hose, etc.), are subject to the warranteer of the contraction of the co ty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.