

INSTRUCTIONS - PARTS LIST



306-966

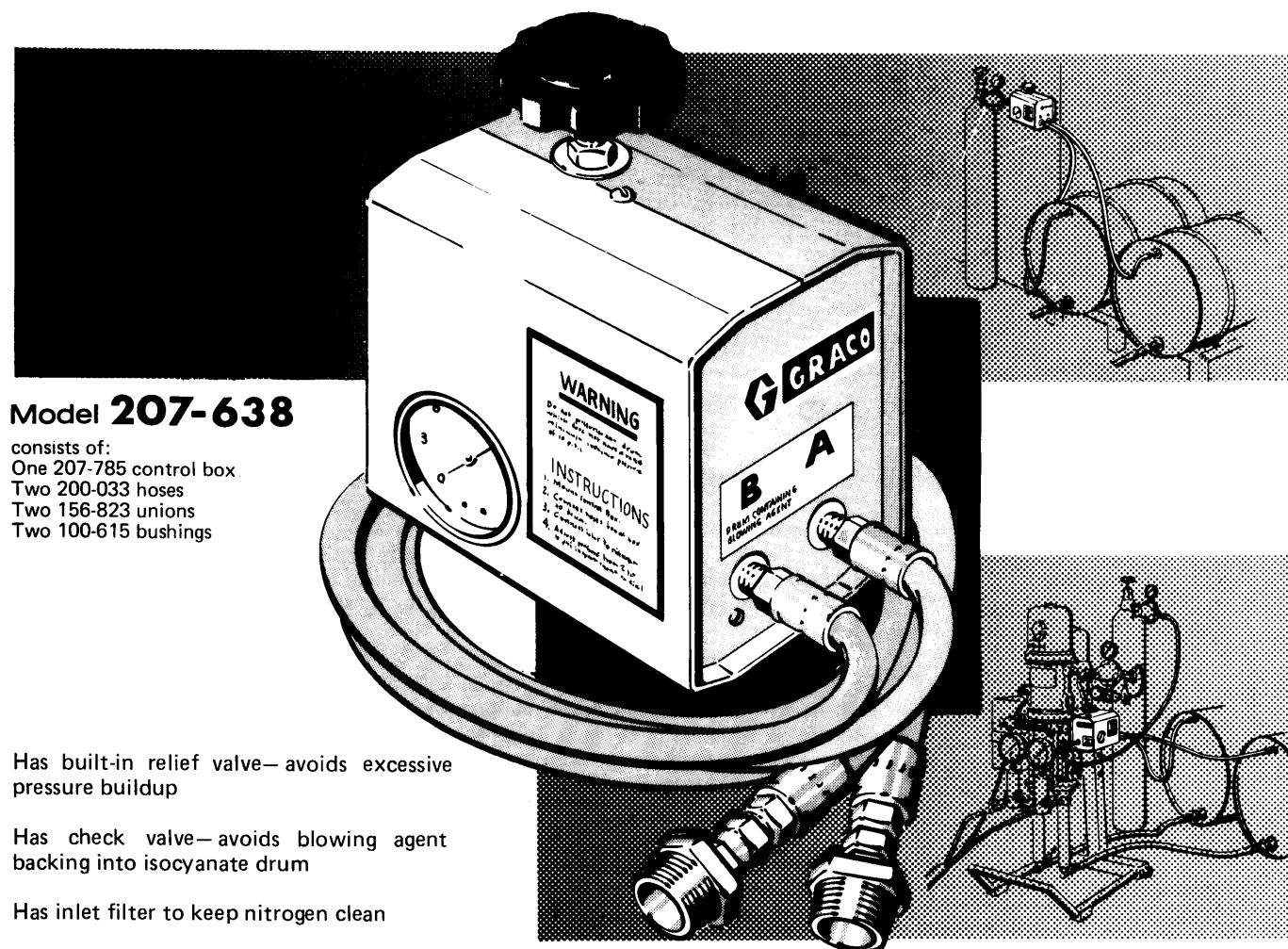
rev "B" OCT. 1976

Supersedes JAN. 1974

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

LOW PRESSURE NITROGEN REGULATOR KIT

FOR USE WITH POLYURETHANE FOAM SYSTEMS TO PREVENT
CONTAMINATION OF MATERIALS.



Model 207-638

consists of:
One 207-785 control box
Two 200-033 hoses
Two 156-823 unions
Two 100-615 bushings

Has built-in relief valve—avoids excessive pressure buildup

Has check valve—avoids blowing agent backing into isocyanate drum

Has inlet filter to keep nitrogen clean

WARNING

Graco Inc does not manufacture or supply any of the reactive chemical components that are used in this equipment and is not responsible for their effects. Because of the vast number of chemicals that could be used and their varying chemical reactions, the buyer and user of this equipment should determine all facts relating to the materials used, including any of the potential hazards involved. Particular inquiry and investigation should be made into potential

dangers relating to toxic fumes, fires, explosions, reaction times, and exposure of human beings to the individual components or their resultant mixtures. Graco assumes no responsibility for loss, damage, expense or claims for bodily injury or property damage, claims for bodily injury or property damage, direct or consequential, arising from the use of such chemical components.

INSTALLATION

NOTE

Numbers in parentheses indicate part reference numbers in the parts drawing.

MOUNT CONTROL BOX

WARNING

The control box has keyhole slots for hanging the box on the wall. The slots are for 1/4" screws. Refer to the dimensional drawing for dimension between hole centers. Have the screws stick out of the wall about 0.12" (3 mm).

HOOK UP HOSES

Connect the two hoses (24) to the outlet manifold (18). Screw bushings (25) into bungs of drums and screw unions (26) into bushings. Connect the hose from the B side of manifold to the resin drum (drum containing blowing agent) and the hose from the A side to the iso-cyanate drum.

CAUTION:

The hose from the B side must be connected to the drum containing the blowing agent. The manifold has a check valve: avoids blowing agent crossing over to the isocyanate drum. Be sure hoses are always connected at the top of the drums.

Connect the regulator to your nitrogen bottle or dry air source with a hose of suitable length. The inlet fitting (17) on the regulator (9) is 1/4 NPT (M).

CAUTION:

The maximum inlet pressure to regulator (9) is 150 psi (10 bar). DON'T exceed this pressure. YOU will also have to provide a high pressure nitrogen regulator at the bottle to regulate the supply pressure to the low pressure regulator in the control box. See illustration on front cover.

OPERATION

WARNING

DON'T pressurize any drum which does not have a minimum rated working pressure of 10 psi (0.7 bar)

Close both the high and low pressure regulator — turn counterclockwise. Open the valve on the nitrogen bottle and set high pressure regulator at about 100 psi (7 bar). Slowly open low pressure regulator (9) until gauge reads 1 to 2 psi (0.1 bar). As the drums fill, the low pressure gauge will drop back to, or near, zero. Don't adjust the regulator yet. Leave regulator at this setting until drums fill and pressure has stabilized.

Set the low pressure regulator (9) at about 3 psi (0.2 bar) and tighten the locknut. Set the high pressure regulator between 50 psi (3 bar) and 150 psi (10 bar). Don't exceed 150 psi (10 bar). Check the low pressure gauge periodically to see that settings don't change, allowing pressure creep up. If the relief valve "blows" (chatters), adjust regulator to a lower pressure. Keep pressure indicator in the green area on the gauge.

SERVICE

NORMAL CARE

Clean the filter(13) on the inlet side of the regulator periodically. We suggest a schedule on a weekly basis to insure clean nitrogen is always present in the drums. To clean, close the high and low pressure regulators, remove the front panel (20) and relieve pressure with the manual over-ride of relief valve (10) then disconnect inlet hose.

Screw the filter nipple (17) out of the regulator and remove the filter retainer (14). Take the filter (13) out and clean thoroughly with solvent, then blow dry with clean, dry air. Put filter and retainer into nipple, screw nipple back into regulator and put the front panel back on.

CAUTION:

BE SURE the filter is absolutely dry before putting it back in -- any moisture will react with the isocyanate.

REPLACING PARTS

CHECK VALVE

To replace any part of the check valve, relieve pressures as explained in the preceding paragraph and remove the front panel. Screw the spring retainer (22) out of the manifold (18) and remove spring (21) and poppet (12).

Clean and inspect all parts thoroughly and replace as necessary. Be sure parts are completely dry, then reinstall into manifold. Replace front panel. Be sure spring retainer is tightened securely into manifold.

REGULATOR OR RELIEF VALVE

The regulator and relief valve are not serviceable and must be replaced as assembled units. To replace, relieve pressure and remove the front panel. Disconnect hoses from regulator inlet and drums.

Screw the filter nipple out of the regulator and screw the two hoses out of the manifold. Remove the two screws holding manifold to box and take the regulator assembly out of the box.

To replace the regulator, turn it off the pipe nipple (4) and remove the gauge (8). Screw the gauge into the new regulator and screw regulator onto nipple.

To replace the relief valve, screw it out of the manifold and replace with a new one.

NOTE

If the pressure creeps up to or past 7 psi (0.5 bar) in the red area on the gauge and relief valve won't relieve the pressure, remove the front panel (20) and use relief valve (10) manual override to relieve it. Then close both regulators and replace the relief valve.

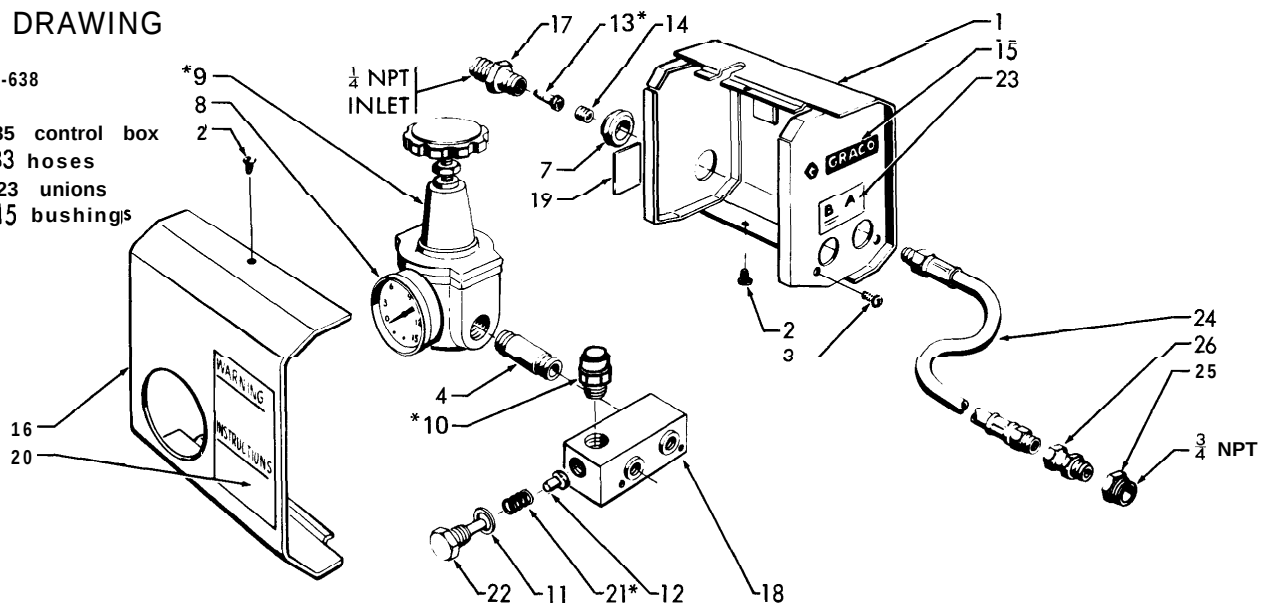
Reassemble into control box, put the front panel back on and connect hoses.

PARTS DRAWING

Model 207-638

consists of:

one 207-785 control box
two 200-033 hoses
two 156-823 unions
two 100-615 bushings



REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
	207-785	LP REG CONTROL BOX Assy: Includes		17	168-389	NIPPLE, filter; 1/4 NPT size	1
	Series "C"	following indented parts		18	168-390	MAN I FOLD, outlet	1
1	207-784	. CONTROL BOX	1	19	168-391	. LABEL, instruction	1
2	100-170	. SCREW, self tap; No. 6 size type "Z"; 3/16 lg	4	20	168-392	. LABEL, instruction	1
3	101-006	. SCREW, mach; rd hd; No. 10-24 thd' size; 1/4 lg	2	21	168-481	. SPRING, compression	1
4	101-216	. NIPPLE, pipe	1	2	168-482	. GUIDE, spring	1
7	101-693	. GROMMET, rubber	1	2	168-486	. MARKER, instruction	1
8	102-730	. GAUGE, air pressure; 0-1 5 psi (0-1 bar) range	1	24	* 200-033	HOSE, air; 1/4 ID; cp'd 1/4 NPT (M)	2
9	* 104-085	. REGULATOR, low pressure	1	25	100-615	BUSHING, reducing; 3/4 x 1/4 NPT size	2
10	* 104-619	. VALVE, relief	1	26	156-823	UNION, straight swivel; 1/4 NPT (M); 1/4 NPT (F) swivel	2
	160-707	. PLATE, model and series	1				
11	150-901	. GASKET, spring guide	1				
12	159-206	. POPPET, valve	1				
13	* 160-736	. FILTER, air	1				
14	172-619	. RETAINER, filter	1				
15	166-362	. LABEL, identification	2				
16	171-331	. PANEL, front	1				

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

Items with shaded part numbers are not normally sold as replacement parts. These parts do not normally need replacement, or are available at local hardware outlets. Available from Graco on special order only.

Order parts by name and number. Always give the model number and series letter of the assembly for which you are ordering.

SERVICE INFORMATION

Listed below by the assembly changed are OLD and NEW parts.

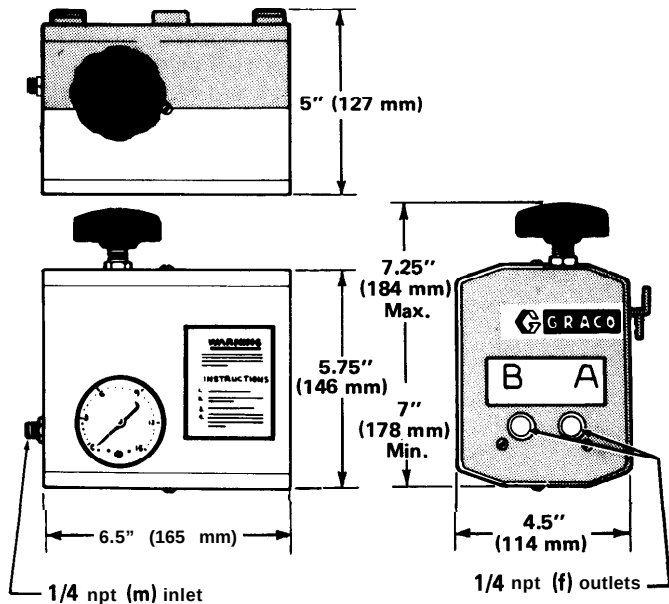
ASSEMBLY CHANGED	PART DESIGNATION	REF NO.	PART NO.	NAME
207-785	OLD		102-736	Valve
CONTROL	NEW	10	104-619	Valve
BOX	OLD		102-73 1	Regulator
Series	OLD		168-386	Panel
to "C"	NEW	9	104-085	Regulator
	NEW	16	171-331	Panel
	OLD		160-889	Retainer
	NEW	14	172-619	Retainer
	DELETED		101-557	Closure
	DELETED		101-582	Closure

INTERCHANGEABILITY NOTE: NEW parts replace OLD parts listed directly above them.

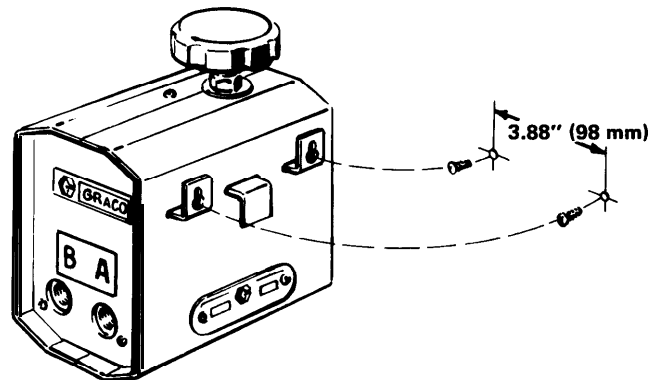
TECHNICAL DATA

Inlet pressure : 150psi (10 bar) max
 inlet size : 1/4 NPT (M)
 Outlet size : 3/4 NPT (M)
 Regulator type : low pressure 0 to 10 psi (0 to 0.7 bar); venting
 Safety valve : 6 psi (0.4 bar)
 Pressure gauge : 0 to 5 psi (0 to 0.3 bar) green range
 5 to 15 psi (0.3 to 1 bar) red range

DIMENSIONAL DRAWING



WALL MOUNTING DETAIL



THE GRACO WARRANTY

Graco Inc. warrants all equipment manufactured by it and bearing its name to be free from defects in material and workmanship under normal use and service. Scope of this warranty extends to the original purchaser for a period of 12 months from the date of purchase and is applicable only when the equipment is installed and operated in accordance with factory recommendations. The warranty does not extend to damage or wear caused by misuse, abrasion, corrosion, negligence, accident, faulty installation or tampering in a manner to impair its normal operation.

In the event the equipment supplied by Graco Inc. is found to be defective within the above-stated 12-month period, Graco Inc. will repair or replace free of charge such defective parts if returned prepaid to the factory or to an authorized Graco service agency and is found by Graco Inc.'s inspection to be truly defective in workmanship or material. In the event said material is deemed defective in workmanship or material, it will be corrected and shipped transportation prepaid within the continental U.S. If inspection of any such equipment by Graco Inc. does not disclose any defect in workmanship or material, repairs will be made at a reasonable charge. Purchased assemblies which are incorporated into Graco equipment, carry the manufacturer's regular warranty.

The foregoing warranties are exclusive, and are in lieu of all other warranties (whether written, oral or implied) including warranty of merchantability in other respects than expressly set forth above and warranty of fitness for a particular purpose. Except as herein provided, every form of liability for direct or consequential damages or loss is expressly excluded and denied.



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306-966
 Feb., 1968
 Revised
 Oct., 1976
 PRINTED
 IN
 USA