



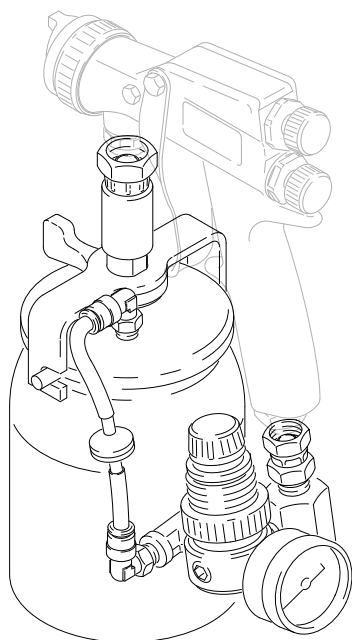
This manual contains important
warnings and information.
READ AND KEEP FOR REFERENCE.

INSTRUCTIONS

STAINLESS STEEL, ONE QUART (ONE LITER)

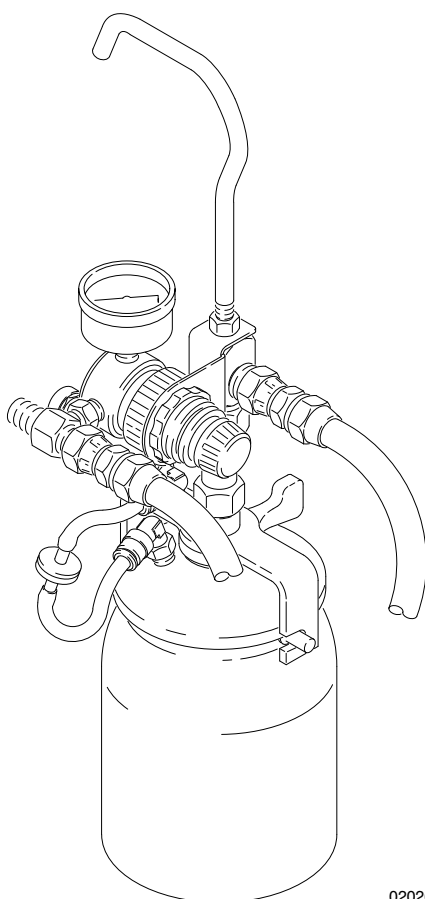
Air Regulated Pressure Cups

See the Technical Data on page 10 for Maximum Air Pressures



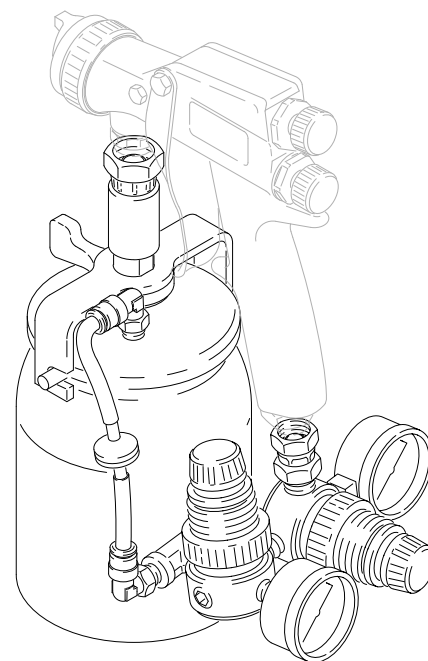
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**Single Air Regulator
Pressure Cup Kit
Part No. 235-373, Series B**



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**Remote Single Air Regulator
Pressure Cup Kit
Part No. 235-054, Series B**



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**Double Air Regulator
Pressure Cup Kit
Part No. 235-374, Series B**

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Setup

Install the Elbow Fitting and Tubing

Push the tubing (3), with the check valve (13), firmly into the cup's elbow fitting (D). See Fig. 2 or 3. The tapered side of the check valve must face towards the cup's elbow fitting.

NOTE: To disconnect the tubing, push down on the fitting's outer ring and pull on the tubing.

Part No. 235–373 & 235–374: Install the Gun on the Cup

1. Install the gun fluid inlet into the cup swivel fitting (E). See Fig. 2.
2. Install the gun air inlet into the air regulator fitting (F).

Part No. 235–054: Assemble the Remote Single Air Regulator Pressure Cup Kit

1. Install the air regulator assembly into the cup swivel fitting. See Fig. 3.
2. Connect the air supply line (G) to the air regulator fitting.
3. Connect the air line (H) to the gun air inlet.
4. Connect the fluid line (J) to the gun fluid inlet.

Fill the Pressure Cup

1. Push the clamp lever (A) fully to the unclamped position, against the yoke (B). See Fig. 1.
2. Twist the cup lid (101) counterclockwise to disengage the yoke hook from the cup extended pins (C).
3. Remove the cup lid (101) and fill the cup with fluid.
4. Twist the cup lid (101) clockwise to engage the yoke (B) hook, then push the clamp lever (A) fully to the clamped position. Use your thumbs to force the clamp lever into position; do not use wrenches or tools to move it.

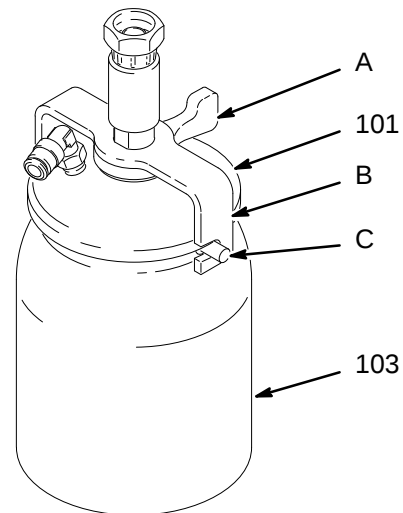
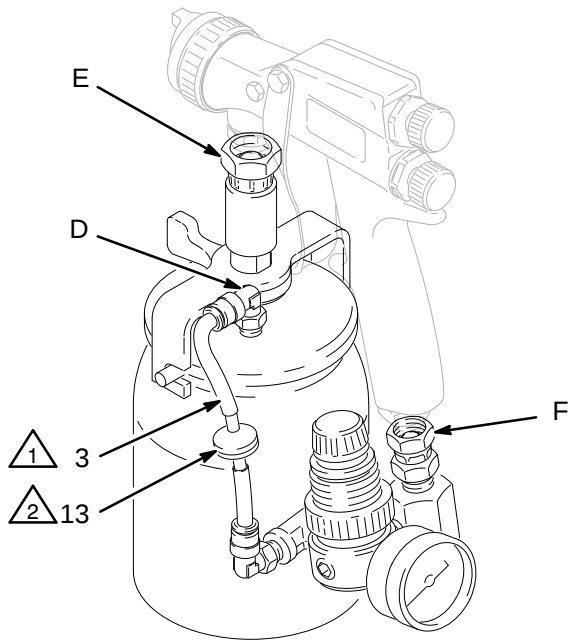


Fig. 1 01961A

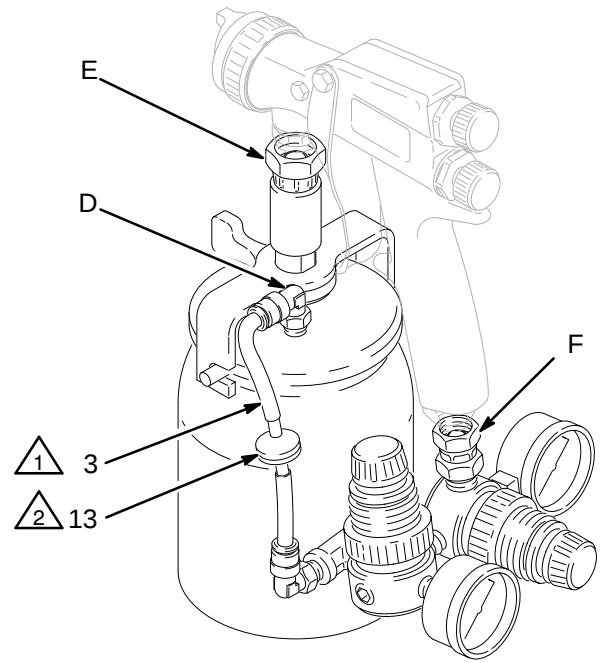
Setup

-  Push tube (3) fully into elbow fitting (D)
-  Tapered side of the check valve must face towards the cup's elbow fitting



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Part No. 235-373
Single Air Regulator Pressure Cup Kit

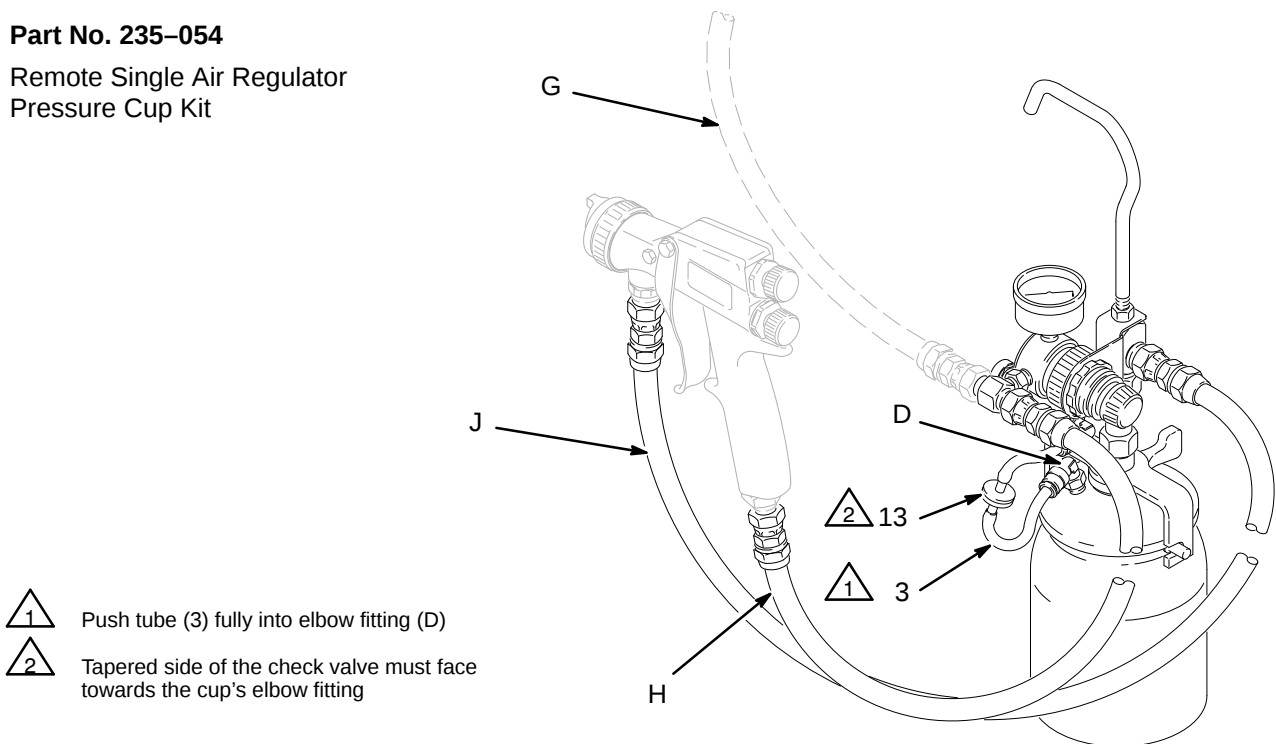


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Part No. 235-374
Double Air Regulator Pressure Cup Kit

Fig. 2

Part No. 235-054
Remote Single Air Regulator
Pressure Cup Kit



-  Push tube (3) fully into elbow fitting (D)
-  Tapered side of the check valve must face towards the cup's elbow fitting

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Fig. 3

Operation

⚠ WARNING

Never exceed 20 psi (1.4 bar) static air pressure to the cup. Exceeding the maximum working pressure of the cup or any other system component could cause component rupture, which could result in serious injury and property damage.

⚠ WARNING

Pressure Relief Procedure

To reduce the risk of serious injury, including splashing in the eyes or on the skin, always follow this procedure after you stop spraying, when checking or servicing any part of the spray system, before disconnecting the gun, air regulator, or pressure cup and when removing a pressure cup for refilling or cleaning.

1. Turn off the air supply to the gun.
2. Trigger the gun into a grounded metal waste container to relieve fluid pressure.
3. Place the cup on a table and slowly release the clamp (A) to bleed-off any residual pressure in the cup. See Fig. 4. Be sure to push the clamp lever fully to the clamped position before turning on the air supply to the gun again.

Setting the Cup Air Pressure

1. Pull up the cup regulator adjustment knob lock-ring (L); this allows the knob (K) to turn. See Fig. 4.
2. Set the cup pressure at zero by turning the adjustment knob (K) fully counterclockwise.
3. Slowly turn the adjustment knob (K) clockwise to increase the air pressure to the cup.
4. Push the adjustment knob lock-ring (L) down to lock the cup pressure setting.

Setting the Gun Air Pressure

Set the gun air pressure regulator for the minimum pressure needed to atomize your fluid. See your gun manual for recommended settings.

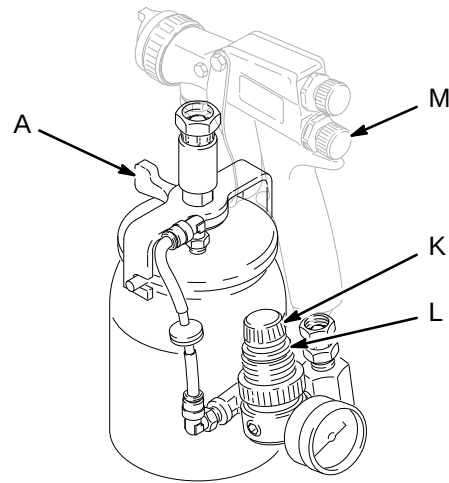


Fig. 4

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Spraying Tips

The regulator is not self relieving so if the regulated air pressure setting is causing excessive fluid flow, follow these steps.

1. Pull up the cup regulator adjustment knob lock-ring (L). See Fig. 4.
2. Turn the adjustment knob (K) counterclockwise.
3. Trigger the gun into a grounded metal waste container until cup pressure is lowered.
4. Turn the adjustment knob (K) clockwise until you obtain the desired pressure setting.
5. Push down the adjustment knob lock-ring (L).

⚠ CAUTION

Do not restrict the fluid flow by continuously spraying with the gun's fluid adjustment knob (M) turned in (clockwise) as this will cause excessive abrasive wear on the fluid needle and trigger/air valve shaft.

To restrict the fluid flow, lower the cup pressure or use a smaller size needle/nozzle set and air cap combination.

If the cup pressure must be below 1.0 psi (0.07 bar) to achieve the desired fluid flow, a smaller needle/nozzle size is recommended.

Operation

Optional Gun Air Regulator 235–119

NOTE: See **Accessories** on page 11 for air regulator replacement parts.

1. Pull up the gun regulator adjustment knob lock-ring (L); this allows the knob to turn. See Fig. 5.
2. Set the gun air pressure at zero by turning the regulator adjustment knob (K) fully counterclockwise.
3. Turn on the air supply to the gun.
4. Turn the regulator adjustment knob (K) clockwise to increase the air pressure to the gun.

WARNING

Never exceed 100 psi (7 bar) *Maximum Working Air Pressure* to the gun. Exceeding the maximum working pressure of the gun or any other system component could cause component rupture, which could result in serious injury and property damage.

5. Push the adjustment knob lock-ring (L) down to hold the pressure setting.

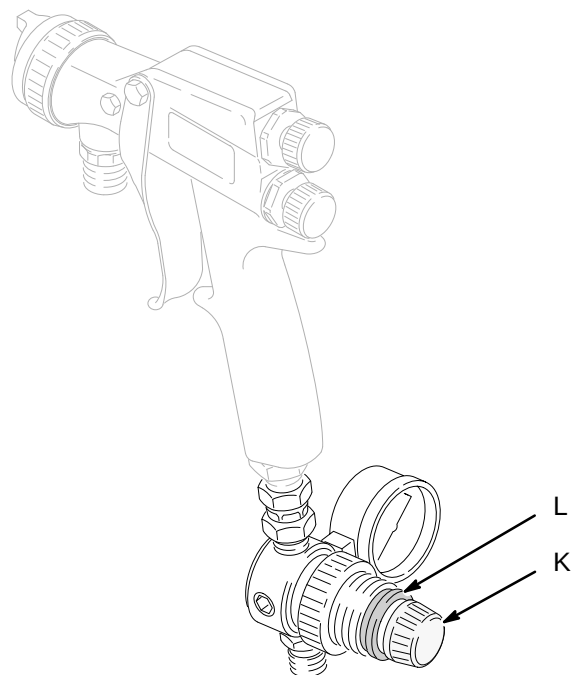


Fig. 5

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Maintenance

Disconnect the Gun and Air Regulator from the Cup

1. Follow the **Pressure Relief Procedure Warning** on page 4.
2. To disengage the tube grip, push down on the outer ring of the lid elbow fitting (N), then pull the tubing (3) out of the fitting. See Fig. 6.
3. Holding a wrench on the gun fluid inlet fitting, disconnect the pressure cup swivel nut fitting (E).
4. Disconnect the gun air inlet fitting from the regulator.
5. Clean the gun as instructed in the gun manual.

CAUTION

Do not clean the air regulators in a gun washer as it will damage the regulator diaphragm. Do not use any cleaning method that allows solvent to enter the regulator internally.

Remove the Cup Lid

1. Push the clamp lever (A) fully to the unclamped position, against the yoke (B). See Fig. 6.
2. Twist the cup lid (101) counterclockwise to disengage the yoke hook from the cup extended pins (C).
3. Remove the cup lid (101).
4. Clean the cup lid (101) and cup (103).

CAUTION

When cleaning the pressure cup lid (101), avoid prolonged exposure of the gasket (102) to solvent as this will cause it to swell.

5. If any fluid is in the lid elbow fitting (N), flush it with solvent but do not soak it in solvent for an extended period.
6. If fluid is in the tubing (3) or check valve (13), replace them. See the parts list for your cup assembly to order parts.

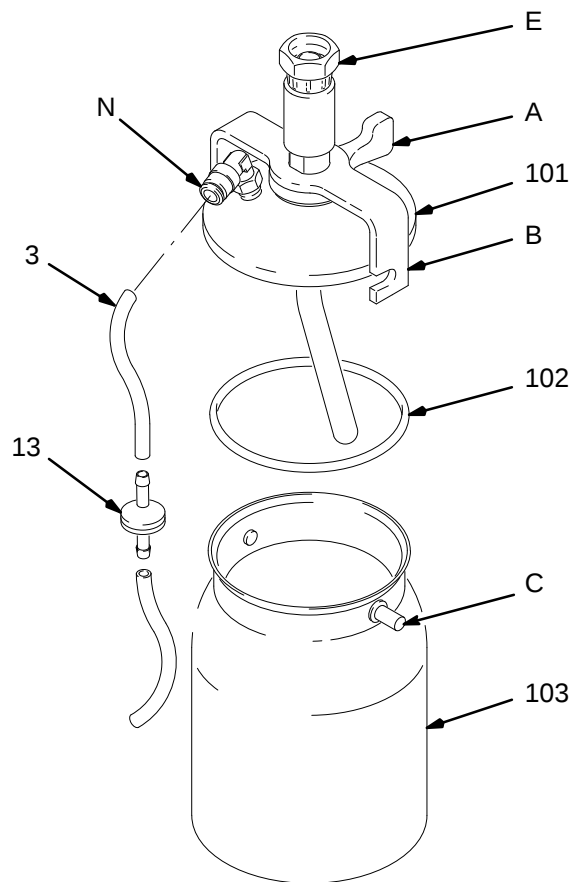


Fig. 6

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Parts

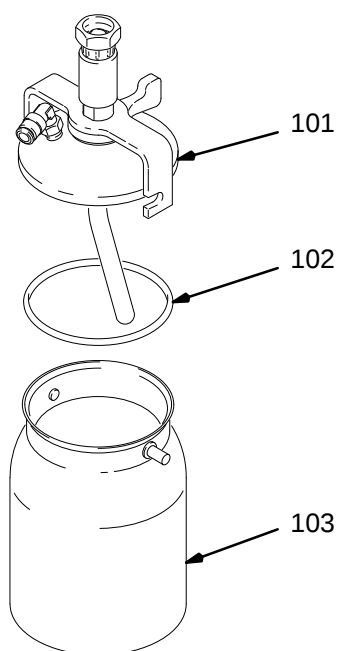
Use Only Genuine Graco Parts and Accessories

One Quart Pressure Cup Part No. 185-853, Series B

Includes the following parts:

Ref. No.	Part No.	Description	Qty.
101	236-908	LID, pressure cup; Includes item 102	1
102	189-883	GASKET	1
103	112-220	CUP, 1 quart (1 liter)	1

NOTE: See the **Technical Data**, page 10, for a list of pressure cup materials.



Single Air Regulator Pressure Cup Kit Part No. 235-373, Series B

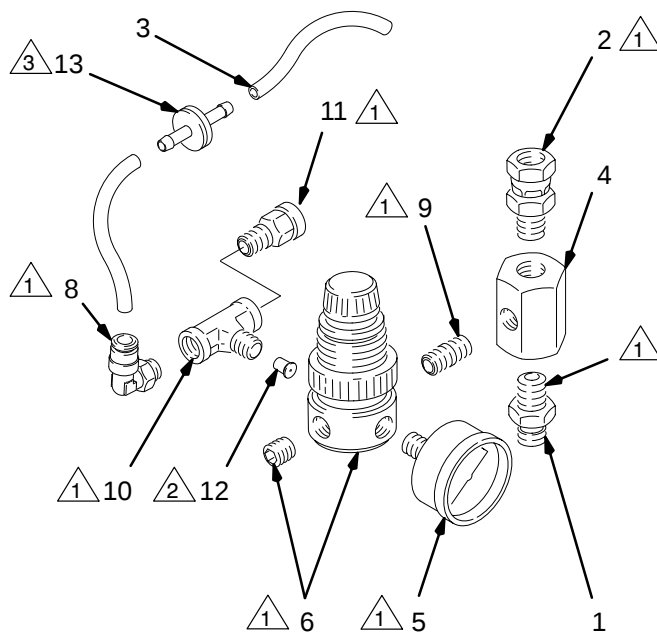
Includes the following parts:

Part No.	Description	Qty.
235-375	Single Air Regulator Assembly <i>See parts list at right</i>	1
185-853	Pressure Cup Assembly <i>See parts list above</i>	1

Single Air Regulator Assembly Part No. 235-375, Series B

Includes the following parts:

Ref. No.	Part No.	Description	Qty.
1	162-453	NIPPLE	1
2	156-823	SWIVEL FITTING	1
3	112-699	TUBE; nylon; 1/4" OD	2
4	187-410	AIR FITTING	1
5	111-500	GAUGE; 0-15 psi (0-1 bar) range	1
6	111-501	REGULATOR; 0-12 psi (0-0.8 bar) range	1
8	112-698	ELBOW FITTING; 90° swivel; for 1/4" OD tube	1
9	100-168	NIPPLE	1
10	110-440	TEE FITTING	1
11	112-059	PRESSURE RELIEF VALVE	1
12	189-557	AIR RESTRICTOR	1
13	M71-256	CHECK VALVE	1



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-  Apply anaerobic pipe sealant (*white*) to external threads
-  Press fit tightly into tee (10)
-  Tapered side of the check valve must face towards the cup's elbow fitting

Parts

Use Only Genuine Graco Parts and Accessories

Double Air Regulator Pressure Cup Kit

Part No. 235–374, Series B

Includes the following parts:

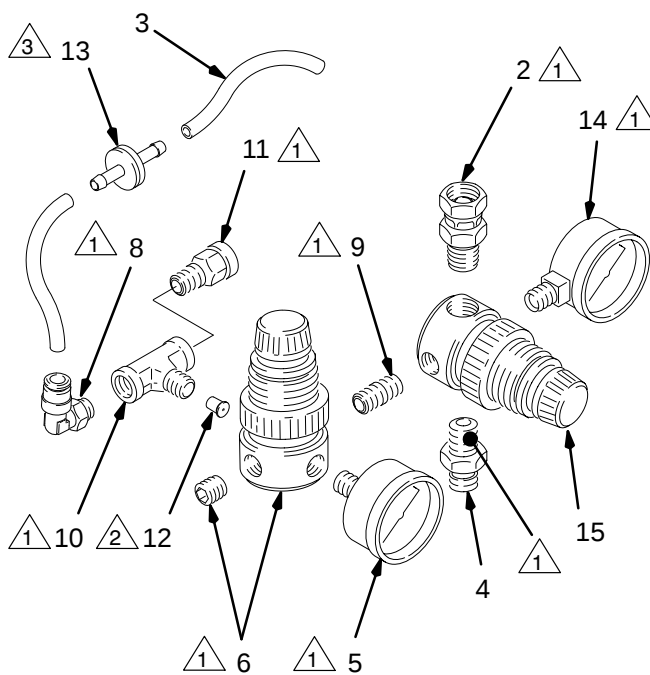
Part No.	Description	Qty.
235–376	Double Air Regulator Assembly <i>See parts list below</i>	1
185–853	Pressure Cup Assembly <i>See parts list, page 7</i>	1

Double Air Regulator Assembly

Part No. 235–376, Series B

Includes the following parts:

Ref. No.	Part No.	Description	Qty.
2	156–823	SWIVEL FITTING	1
3	112–699	TUBE; nylon; 1/4" OD	2
4	162–453	NIPPLE	1
5	111–500	GAUGE; 0-15 psi (0-1 bar) range	1
6	111–501	REGULATOR; 0-12 psi (0-0.8 bar) range	1
8	112–698	ELBOW FITTING; 90° swivel; for 1/4" OD tube	1
9	100–168	NIPPLE	1
10	110–440	TEE FITTING	1
11	112–059	PRESSURE RELIEF VALVE	1
12	189–557	AIR RESTRICTOR	1
13	M71–256	CHECK VALVE	1
14	110–436	GAUGE; 0-100 psi (0-7 bar) range	1
15	110–438	REGULATOR; 0-100 psi (0-7 bar) range	1



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-  Apply anaerobic pipe sealant (*white*) to external threads
-  Press fit tightly into tee (10)
-  Tapered side of the check valve must face towards the cup's elbow fitting

Parts

Use Only Genuine Graco Parts and Accessories

Remote Single Air Regulator Pressure Cup Kit

Part No. 235-054, Series B

Includes the following parts:

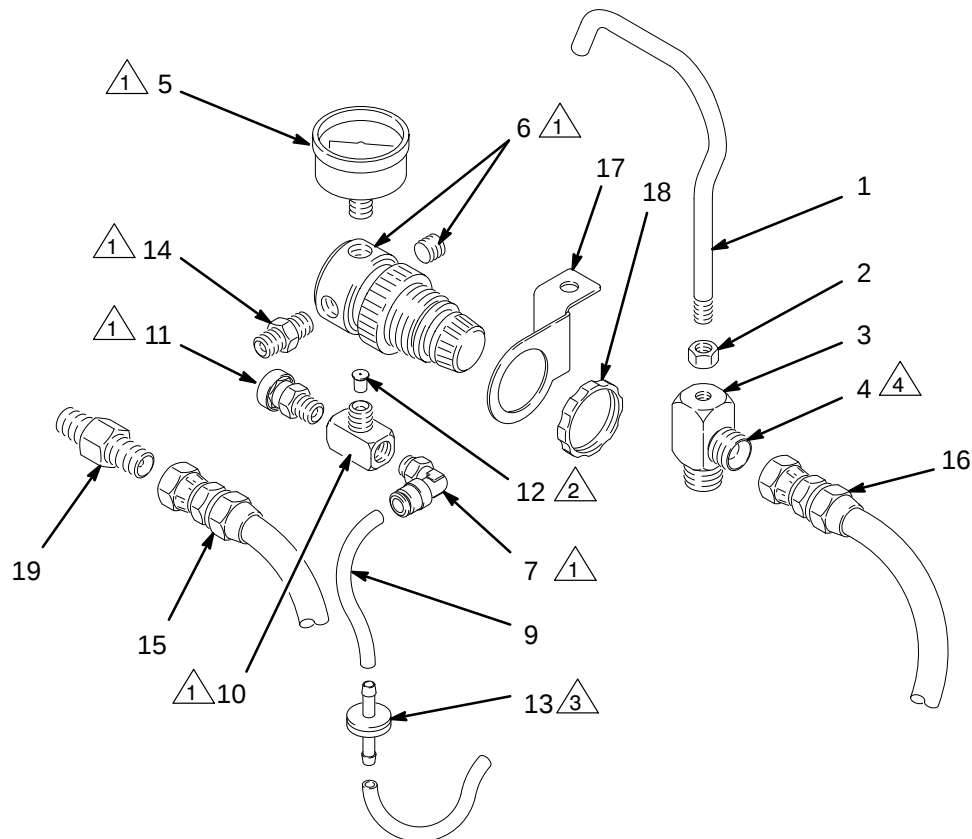
Part No.	Description	Qty.
236-142	Remote Air Regulator Assembly <i>See parts list below</i>	1
185-853	Pressure Cup Assembly <i>See parts list, page 7</i>	1

Remote Air Regulator Assembly Part No. 236-142, Series B

Includes the following parts:

Ref. No.	Part No.	Description	Qty.
1	172-620	HOOK	1
2	100-188	HEX NUT	1

Ref. No.	Part No.	Description	Qty.
3	172-680	ELBOW FITTING	1
4	172-682	HOSE ADAPTER	1
5	111-500	GAUGE; 0-15 psi (0-1 bar) range	1
6	111-501	REGULATOR; 0-12 psi (0-0.8 bar) range	1
7	112-698	CONNECTOR; for 1/4" OD tube	1
9	112-699	TUBE; nylon; 1/4" OD	2
10	110-440	TEE FITTING	1
11	112-059	PRESSURE RELIEF VALVE	1
12	189-557	AIR RESTRICTOR	1
13	M71-256	CHECK VALVE	1
14	103-656	HEX NIPPLE	1
15	212-005	AIR HOSE; buna-n; 1/4 npsm; 6 ft. (1.83 m) long	1
16	212-006	FLUID HOSE; nylon; 3/8 npsm; 6.5 ft. (1.98 m) long	1
17	188-770	MOUNTING BRACKET	1
18	112-308	PANEL NUT	1
19	183-696	TEE FITTING	1



1 Apply anaerobic pipe sealant (*white*) to external threads

2 Press fit tightly into tee (10)

3 Tapered side of the check valve must face towards the cup's elbow fitting

4 Apply high strength anaerobic pipe sealant (*green*) to external threads.

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Technical Data

Single Air Regulator Pressure Cup Kit, Part No. 235–373

Maximum Outlet Pressure	12 psi (0.8 bar)
Maximum Inlet Pressure	100 psi (7 bar)

Double Air Regulator Pressure Cup Kit, Part No. 235–374

Cup Regulator Maximum Outlet Pressure	12 psi (0.8 bar)
Gun Regulator Maximum Outlet Pressure	100 psi (7 bar)
Maximum Inlet Pressure	100 psi (7 bar)

Remote Single Air Regulator Pressure Cup Kit, Part No. 235–054

Maximum Outlet Pressure	12 psi (0.8 bar)
Maximum Inlet Pressure	100 psi (7 bar)

One Quart Pressure Cup, Part No. 185–853

Maximum Working Pressure	20 psi (1.4 bar)
Size	1 quart (1 liter)
Material	
<i>Cup, Tube, Seat, and Nut</i>	304 Stainless Steel
<i>Lid</i>	Glass–Filled Nylon
<i>Sleeve, Clamp Arm</i>	Electroless Nickel Plated Aluminum
<i>Yoke</i>	Electroless Nickel Plated Steel
<i>Cup Gasket</i>	Polyethylene Foam

Cup Fluid Nut Thread 3/8–18 npsm; R3/8–19 compound thread

Regulator Swivel Nut Thread 1/4–18 npsm; R1/4–19 compound thread

Weight

Pressure Cup Only	1 lb. 7 oz. (646 g)
Cup with Single Air Regulator*	2 lb. 4 oz. (1007 g)
Cup with Double Air Regulator*	2 lb. 8 oz. (1113 g)
Remote Cup with Air Regulator Assembly*	2 lb. 9 oz. (1130 g)
Remote Cup with Air Regulator Assembly and Hoses*	4 lb. 1 oz. (1816 g)
Gun Air Regulator*	8 oz. (224 g)

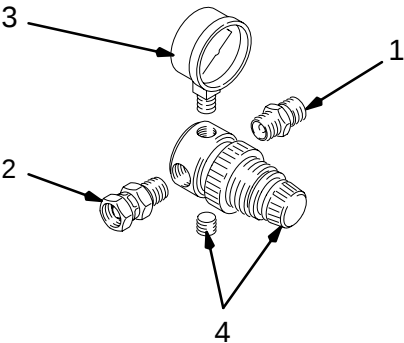
* *Weight without gun*

Accessories

Spray Gun Air Regulator Assembly 235–119

100 psi (7 bar) Maximum Outlet Pressure
150 psi (10 bar) Maximum Inlet Pressure
For use on a spray gun with a 1/4–18 npsm air fitting.
Includes the following parts:

Ref. No.	Part No.	Description	Qty.
1	162–453	NIPPLE; 1/4 npt x 1/4 npsm	1
2	156–823	SWIVEL UNION; 1/4 npt	1
3	110–436	GAUGE; 0-100 psi (0-7 bar) range	1
4	110–438	REGULATOR; 0-100 psi (0-7 bar) range	1



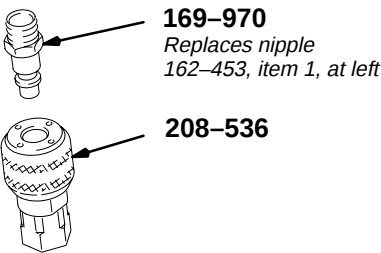
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Quick Disconnect Coupler 208–536

1/4 npt(f), zinc-plated brass

Quick Disconnect Pin 169–970

1/4 npt(m), zinc-plated steel



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One Quart Pressure Cup Liners 112–490

Box of 20 special blend polyethylene liners.
Use to line cup for easy clean-up.

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 to an authorized Graco distributor for verification of the claim. 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 costs of parts, labor and transportation.

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 warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

Graco Phone Numbers

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you: **1-800-367-4023 Toll Free**

FOR TECHNICAL ASSISTANCE, service repair information or assistance regarding the application of Graco equipment: **1-800-543-0339 Toll Free**

Manual Change Summary

This manual was changed from Rev C to Rev D to change the material and weight used for the lid in the technical data section. Other general changes to the manual were made.

Sales Offices: Atlanta, Chicago, Dallas, Detroit, Los Angeles
Foreign Offices: Canada; England; Switzerland; France; Germany; Hong Kong; Japan; Korea
GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

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