

INSTRUCTIONS—PARTS LIST

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



308-260

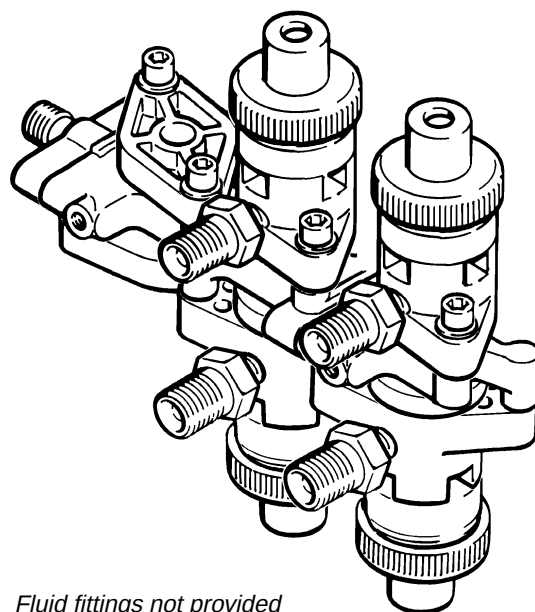
Rev. A

COLOR CHANGER VALVE ASSEMBLY

7 bar (100 psi) MAXIMUM AIR INLET PRESSURE
21 bar (300 psi) MAXIMUM FLUID WORKING PRESSURE

ASSEMBLY ORDER NO.	NO. OF VALVES*
235-810	2
235-811	6
235-812	18
235-813	20
235-814	26
235-815	28

* In normal operation, one valve is used for air and one valve is used for solvent.



Fluid fittings not provided

INSTALLATION

1. Place a gasket (5) between each of the center manifolds (3). Connect the manifold with two screws (6). See the PARTS DRAWING, on page 3.
2. Place a gasket (5) on the open end of the last center manifold, and connect the end manifold (4) with two screws (6).
3. Place a gasket (5) on the front of the first center manifold, and connect the front block (2) with two screws (6).
4. Install the valves (1) on the manifolds with two screws (6).

NOTE: Each center manifold (3) can hold up to four valves (two on each side). The end manifold (4) holds two valves. A manifold plug must be installed wherever there is no valve.

5. Install the manifold plug (8) with the screws (6) and washers (7).

NOTE: The two color changer valves on the end manifold (4) are used for solvent and air **ONLY**.

6. Connect a 4 mm (5/32 in.) O.D. tube to each piston air inlet fitting (B). See Fig 1. See ACCESSORIES, on page 4, to order the tubing and air inlet fitting.
7. Install a suitable adapter (A) in the 1/8 npt fluid inlet of each valve. See ACCESSORIES to order an adapter. Apply thread sealant to the adapter and torque it to 2.3 N•m (20 in-lb).

Connect the paint supply hose to the adapter (A). See Fig 1.

8. Connect the paint hoses from the gun to the front block (2). The threads on the front block are 1/4-18.6 compound thread, which fits both 1/4-18 npsm or 1/4-19 BSP female connectors.
9. If you are recirculating the paint, remove the recirculating plug from the valve and connect the recirculating line to the 1/8 npt(f) port, using a suitable adapter. Use sealant on the adapter and torque it to 2.3 N•m (20 in-lb).

CLOSED END SYSTEM

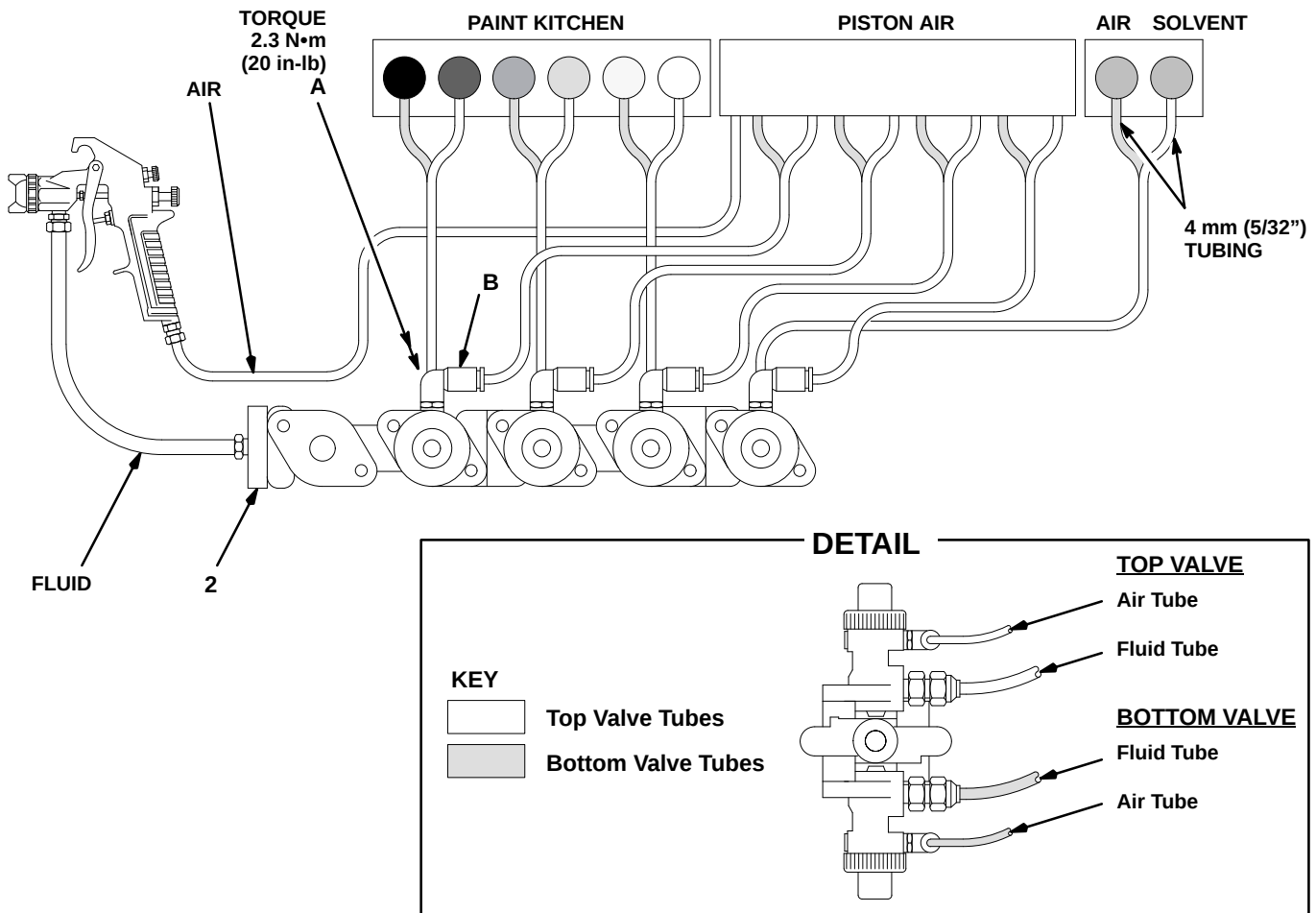


Fig 1

REPAIR

WARNING

To reduce the risk of serious bodily injury, including splashing in the eyes or on the skin, injury from moving parts or electric shock, **ALWAYS** follow the **Pressure Relief Procedure** and read and follow the warnings given in your pump and spraying device instruction manuals before removing or repairing the color valves.

To reduce down time, have extra manifold plugs (8), washers (7), and cap screws (6) on hand to plug the manifold when a valve is removed for repair. This will allow you to continue using the other valves.

See *Instruction Manual 308–259* for the color valve repair procedure.

PARTS LIST

REF NO.	PART NO.	DESCRIPTION	QTY
1	235–788	BARE VALVE	*
2	181–235	FRONT BLOCK	*
3	181–099	CENTER MANIFOLD	*
4	181–098	END MANIFOLD	*
5	178–422	GASKET	*
6	108–019	CAP SCREW	*
7	108–193	WASHER	*
8	181–036	MANIFOLD PLUG	*

* See the *Valve Component Quantity Chart* information, below and on page 4, to determine the quantity to order for your Color Valve Model.

** See *Manual 308–259* to order Bare Valve parts.

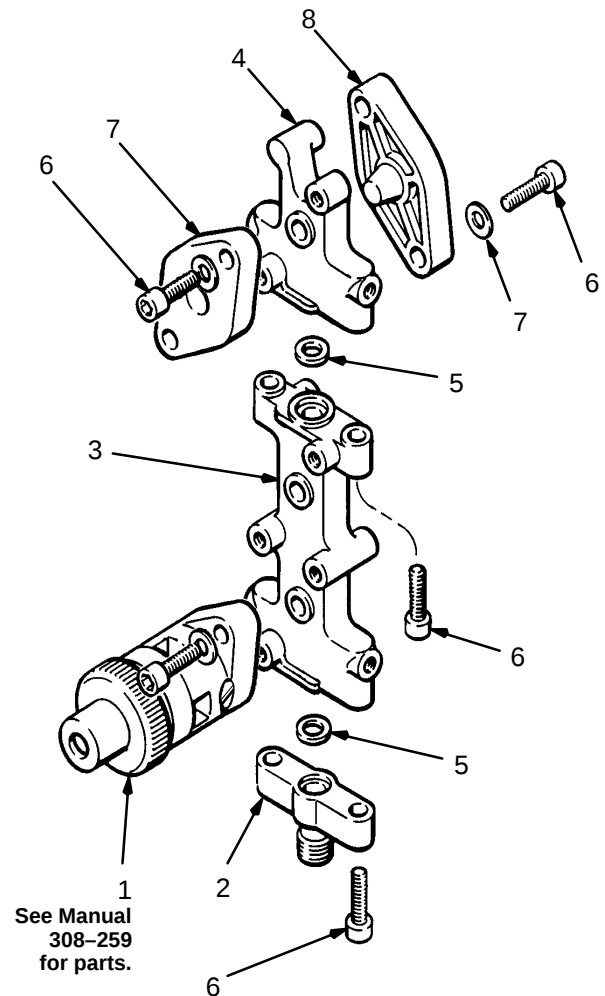
How to Use the Component Quantity Chart

In the chart on page 4, the quantities are listed under each component part no., across from the corresponding Color Changer Valve Assembly part no.

For example, if you have Color Changer Valve Assembly 235–815, your color valve consists of the components listed below:

REF NO.	PART NO.	DESCRIPTION	QTY
1	235–788	BARE VALVE	28
2	181–235	FRONT BLOCK	1
3	181–099	CENTER MANIFOLD	7
4	181–098	END MANIFOLD	1
5	178–422	GASKET	8
6	108–019	CAP SCREW	76
7	108–193	WASHER	4
8	181–036	MANIFOLD PLUG	2

PARTS DRAWING



VALVE COMPONENT QUANTITY CHART

COLOR CHANGE VALVE ASSY.	REF NO. 1 Bare Valve	REF NO. 2 Front Block	REF NO. 3 Center Manifold	REF NO. 4 End Manifold	REF NO. 5 Gasket	REF NO. 6 Cap Screw	REF NO. 7 Plain Washer	REF NO. 8 Manifold Plug
Part No.	235-788	181-235	181-099	181-098	178-422	108-019	108-193	181-036
235-810	2	1	—	1	1	6	—	—
235-811	6	1	1	1	2	16	—	—
235-812	18	1	4	1	5	46	—	—
235-813	20	1	5	1	6	56	4	2
235-814	26	1	6	1	7	66	—	—
235-815	28	1	7	1	8	76	4	2

ACCESSORIES

Accessories must be purchased separately.
Use only **GENUINE GRACO PARTS AND ACCESSORIES**.

FLUID INLET ADAPTER 169-797

1/4 npsm x 1/8 npt

FLUID INLET ADAPTER 181-153

For use in Europe and other international applications.
1/4-1/8 npsm/R1/4-19 combined external male threads,
compatible with NPSM and BSP female connectors.

AIR TUBE 054-177

4 mm (5/32 in.) OD; nylon

Specify length needed when ordering.

90° ELBOW AIR INLET FITTING 109-193

90° swivel elbow with quick disconnect, 10-32 male thread

STRAIGHT AIR INLET FITTING 108-294

For use where the standard 90° elbow air inlet fitting cannot be used. 10-32 male thread

TECHNICAL DATA

Maximum Fluid Working Pressure . . . 21 bar (300 psi)

Maximum Air Operating Pressure 7 bar (100 psi)

Air Inlet 10-32 UNF

Fluid Inlet 1/8 npt(f)

Fluid Outlet 1/8 npt(f)

Wetted Parts Stainless Steel, Delrin®, Ultra High
Molecular Weight Polyethylene

Weight:

One Bare Valve : 131 g (4.6 oz.)

One End Manifold : 104 g (3.6 oz.)

One Center Manifold : 176 g (6.2 oz.)

GRACO PHONE NUMBERS

TO PLACE AN ORDER, contact your Graco distributor,
or call Graco: **1-800-328-0211 Toll Free**

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

Factory Branches: Atlanta, Chicago, Dallas, Detroit, Los Angeles, Mt. Arlington (N.J.)

Subsidiary and Affiliate Companies: Canada; England; Switzerland; France; Germany; Hong Kong; Japan; Korea

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

PRINTED IN U.S.A. 308-260 12-92