

Color Changer Valve Assembly

307731 rev.G

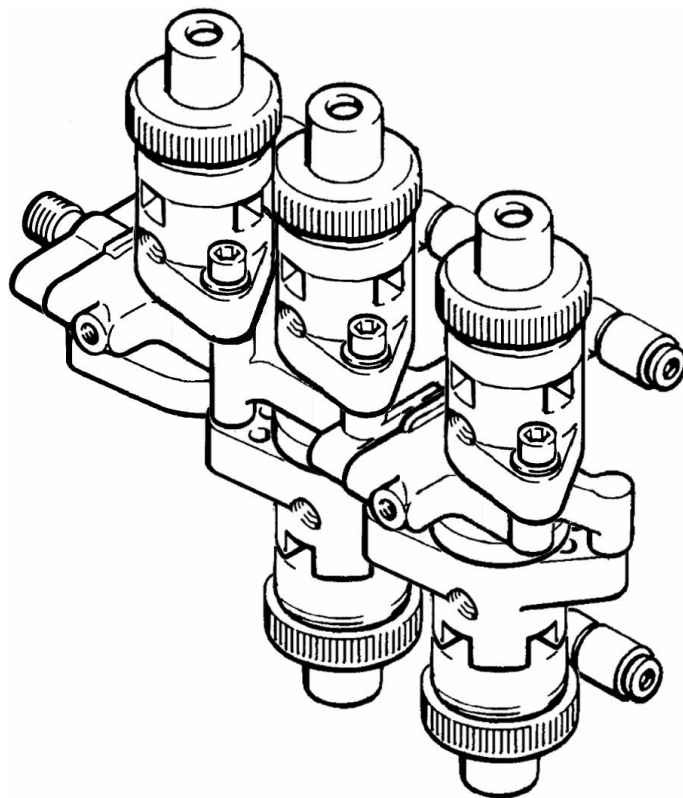
7 bar, 0.7 MPa (100 psi) Maximum Air Inlet Pressure
21 bar, 2.1 MPa (300 psi) Maximum Fluid Working Pressure



Important Safety Instructions

Read all warnings and instructions in this manual.
Save these instructions.

See page for 2 List of Models.



T18182a

**Model 220060 with
nylon body shown**

List of Models

ASSEMBLY ORDER NO.		No. of Valves*
with Nylon Body	with SST Body	
–	949796	3
–	220019	4
220060	220020	5
220061	220021	6
220062	220022	7
220063	220023	8
220064	220024	9
220065	220025	10
220066	220026	11
220067	220027	12
220068	220028	13
220069	220029	14
220070	220030	15
220071	220031	16
220072	220032	17
220073	220033	18
220074	220034	19
220075	220035	20
220076	220036	21
220077	220037	22
220078	220038	23
220079	220039	24
220080	–	25
220081	220041	26
220082	220042	27
220083	220043	28
220084	–	29
220085	220045	30

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

Installation

1. Place a gasket (5) between each of the center manifolds (3). Connect the manifold with two screws (6). See Fig. 2.
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 washers (7—Nylon valves only) and 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) by pushing the tube into the special quick disconnect of the fitting. See Fig. 1.

NOTE: Four mm (5/32 in.) OD air tubing is available; see **Accessories** on page 7 to order.

NOTE: The air inlet fitting (B) is a 90° elbow. An optional straight air inlet fitting is available; see **Accessories** on page 7 to order.

7. Install a suitable adapter (A) in the 1/8 npt fluid inlet of each valve. Apply thread sealant to the adapter and torque it as follows:

Nylon Valve: 0.56 N•m (5 in-lb)

Stainless Steel Valve: 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 (C) from the valve and connect the recirculating line to the 1/8 npt(f) port, using a suitable adapter. See Fig. 2. Use sealant on the adapter and torque it as follows:

Nylon Valve: 0.56 N•m (5 in-lb)

Stainless Steel Valve: 2.3 N•m (20 in-lb)

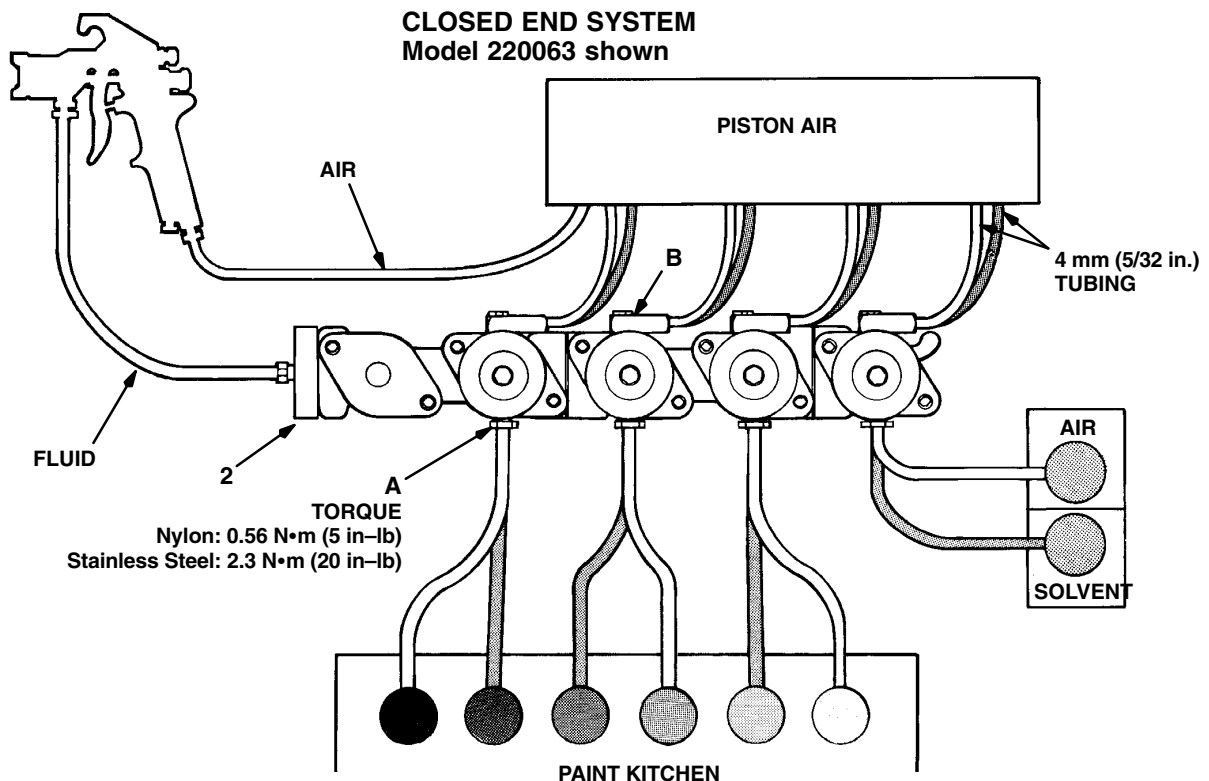


Fig. 1

Installation

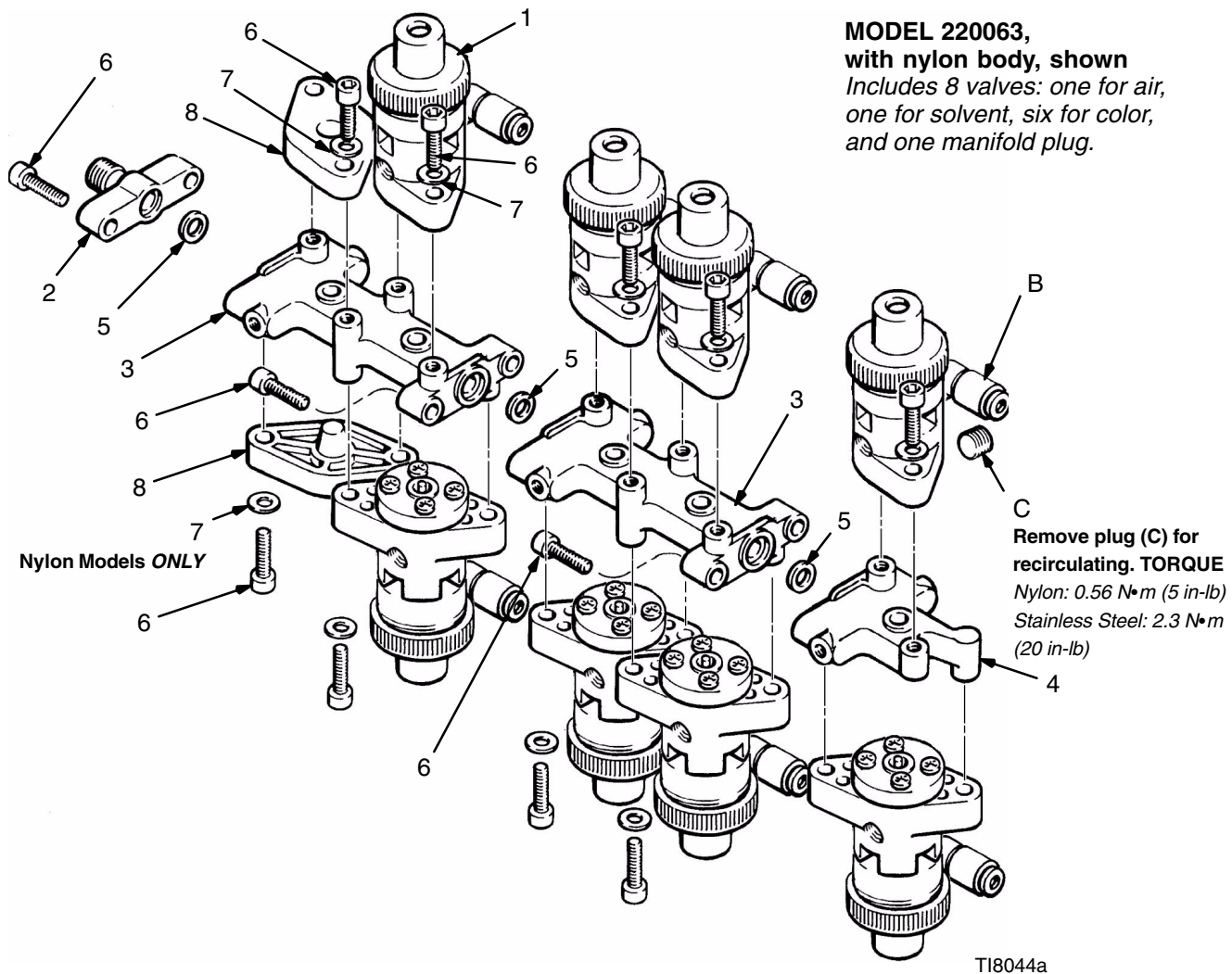


Fig. 2

Service

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.

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 servicing. This will allow you to continue using the other valves.

See Instruction Manual 307941 for the color valve repair procedure.

Parts

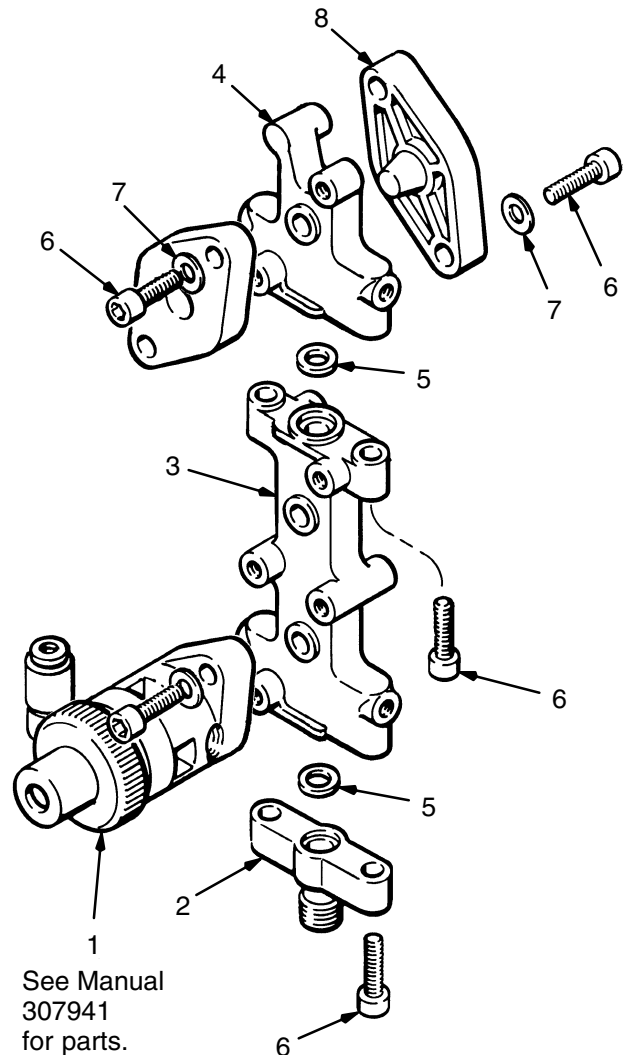
Color Changer Valve Assembly

Includes items 1 to 8

Ref. No.	Part No.	Description	Qty.
1**	218900	BARE VALVE; <i>Nylon Valve Assemblies only</i>	*
	218964	BARE VALVE; <i>SST Valve Assemblies only</i>	*
2	181235	FRONT BLOCK	*
3	181099	CENTER MANIFOLD	*
4	181098	END MANIFOLD	*
5	178422	GASKET	*
6	108019	CAP SCREW	*
7	108193	WASHER	*
8	181036	MANIFOLD PLUG	*

* See the Valve Component Quantity Chart information, below and on page 5, to determine the quantity to order for your Color Valve Model.

** See Manual 307941 to order Bare Valve parts.



Valve Component Quantity Chart

How to Use the Component Quantity Chart

In the chart on page 5, 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 220059, your color valve consists of the components listed at right:

Ref. No.	Part No.	Description	Qty.
1	218900	BARE VALVE; Nylon Valve Assemblies <i>ONLY</i>	4
2	181235	FRONT BLOCK	1
3	181099	CENTER MANIFOLD	1
4	181098	END MANIFOLD	1
5	178422	GASKET	2
6	108019	CAP SCREW	16
7	108193	WASHER	12
8	181036	MANIFOLD PLUG	2

Valve Component Quantity Chart

COLOR CHG. VALVE ASSY.		REF NO. 1 Bare Valve		REF NO. 2 Front Block	REF NO. 3 Center Man.	REF NO. 4 End Man.	REF NO. 5 Gasket	REF NO. 6 Cap Screw	REF NO. 7 Plain Washer		REF NO. 8 Man. Plug
(Nylon) Part No.	(SST) Part No.	(Nylon) 218900	(SST) 218964	181235	181099	181098	178422	108019	(Nylon) 108193	(SST) 108193	181036
–	949796	–	3	1	1	1	2	16	–	6	3
–	220019	4	4	1	1	1	2	16	12	4	2
220060	220020	5	5	1	1	1	2	16	12	2	1
220061	220021	6	6	1	1	1	2	16	12	–	–
220062	220022	7	7	1	2	1	3	26	20	6	3
220063	220023	8	8	1	2	1	3	26	20	4	2
220064	220024	9	9	1	2	1	3	26	20	2	1
220065	220025	10	10	1	2	1	3	26	20	–	–
220066	220026	11	11	1	3	1	4	36	28	6	3
220067	220027	12	12	1	3	1	4	36	28	4	2
220068	220028	13	13	1	3	1	4	36	28	2	1
220069	220029	14	14	1	3	1	4	36	28	–	–
220070	220030	15	15	1	4	1	5	46	36	6	3
220071	220031	16	16	1	4	1	5	46	36	4	2
220072	220032	17	17	1	4	1	5	46	36	2	1
220073	220033	18	18	1	4	1	5	46	36	–	–
220074	220034	19	19	1	5	1	6	56	44	6	3
220075	220035	20	20	1	5	1	6	56	44	4	2
220076	220036	21	21	1	5	1	6	56	44	2	1
220077	220037	22	22	1	5	1	6	56	44	–	–
220078	220038	23	23	1	6	1	7	66	52	6	3
220079	220039	24	24	1	6	1	7	66	52	4	2
220080	–	25	25	1	6	1	7	66	52	2	1
220081	220041	26	26	1	6	1	7	66	52	–	–
220082	220042	27	27	1	7	1	8	76	60	6	3
220083	220043	28	28	1	7	1	8	76	60	4	2
220084	–	29	29	1	7	1	8	76	60	2	1
220085	220045	30	30	1	7	1	8	76	60	–	–

Accessories

Use Only Genuine Graco Parts and Accessories

Fluid Inlet Adapter 191872

1/4 npsm x 1/8 npt

Straight Air Inlet Fitting 111328

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

Air Tube 514607

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

Specify length needed when ordering.

Technical Data

Maximum Fluid Working Pressure

..... 21 bar, 2.1 MPa (300 psi)

Maximum Air Operating Pressure

..... 7 bar, 0.7 MPa (100 psi)

Air Inlet Tube Requirements 4 mm (5/32 in.) OD

Fluid Inlet 1/8 npt(f)

Fluid Outlet 1/8 npt(f)

Wetted Parts 304 Stainless Steel electropolished and passivated castings, 304 Stainless Steel passivated machined parts, Acetal, Ultra High Molecular Weight Polyethylene, *Nylon (only in nylon valve assemblies)*

Weight:

One Nylon Valve: 97 g (3.4 oz.)

One Stainless Steel Valve: 131 g (4.6 oz.)

One End Manifold: 104 g (3.6 oz.)

One Center Manifold: 176 g (6.2 oz.)

Graco Standard Warranty

Graco warrants all equipment manufactured by Graco 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. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be 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 general wear and tear, or 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 of Graco equipment with 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 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 costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

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Graco Phone Number

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you:

1-800-328-0211 Toll Free

612-623-6921

612-378-3505 Fax

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