

INSTRUCTIONS-PARTS LIST

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



308-061

Rev C
Supersedes B

High Pressure, One Way, Fluid Line BALL VALVE

5000 psi (350 bar) MAXIMUM WORKING PRESSURE

Model 223-522, Series A

1/4 npt (mbe); Viton® seals, carbide seats

OPERATION

Read the **WARNINGS** on page 2. Use as a drain valve to relieve fluid pressure in spray systems. To open the valve, turn the lever parallel to the valve housing. To fully stop fluid flow through the valve, turn the lever 90° to the valve housing.

SERVICE

Follow the **Pressure Relief Procedure** on page 2. Remove the valve from the line and disassemble it. Clean the parts and inspect them. Replace any worn or damaged parts.

Lubricate the o-ring seals and threaded parts with lithium-base lubricant. Assemble the valve in the reverse order of disassembly. When installing the lever on the valve, make sure the hole in the ball is aligned with the direction of the lever.

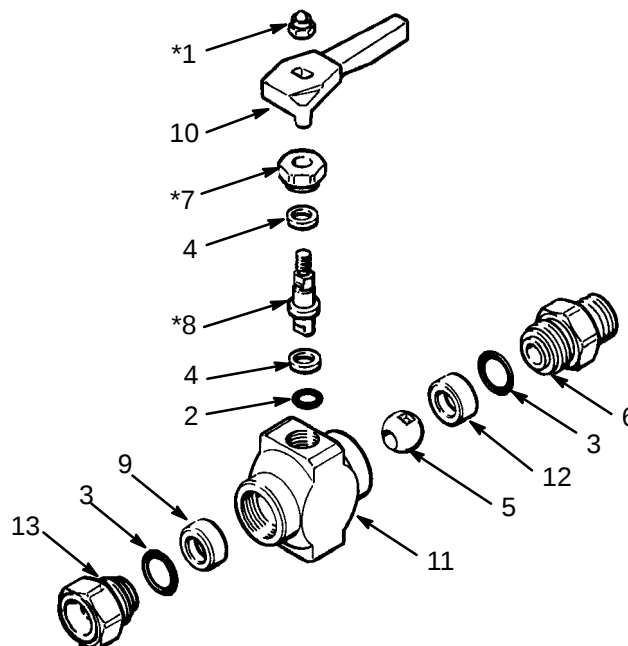
PARTS LISTS AND DRAWING

REF NO.	PART NO.	DESCRIPTION	QTY
1	102-310*	NUT, hex; nylon cap; No. 10-32	1
2	110-242	SEAL, o-ring; Viton®	1
3	110-241	SEAL, o-ring; Viton®	2
4	164-900	WASHER, flat, nylon	2
5	165-273	BALL, valve	1
6	165-274	STUD, valve; 1/4 npt(m)	1
7	165-964*	NUT, packing	1
8	187-163*	STEM, valve	1
9	223-521	SEAT, ball, carbide	1
10	178-747	LEVER, valve	1
11	178-743	HOUSING, valve	1
12	172-094	SEAT, ball	1
13	186-170	NIPPLE, adapter	1

*Recommended spare parts to keep on hand.

MANUAL CHANGE SUMMARY

This manual was changed to show the correct placement of the flat washers (4). Note that one washer is above and one is below the stem (8).



WARNING

HIGH PRESSURE SPRAY CAN CAUSE SERIOUS INJURY. OBSERVE ALL WARNINGS.

Read and understand all instruction manuals before operating equipment.

This equipment is used in a system which generates very high fluid pressure.

To Reduce the Risk of Serious Bodily Injury, including fluid injection, injury from splashing fluid or solvent in the eyes or on the skin, component rupture or fire or explosion, which can also cause property damage, always follow these precautions.

To reduce the risk of fluid injection and splashing: ALWAYS follow the **Pressure Relief Procedure**, below, before removing the valve for any reason.

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

Keep hands away from the end of the drain valve when opening it.

Medical Alert – Airless Spray Wounds

If any fluid appears to penetrate your skin, get **EMERGENCY MEDICAL CARE AT ONCE. DO NOT TREAT AS A SIMPLE CUT.** Tell the doctor exactly what fluid was injected.

Note to Physician: *Injection into the skin is a traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the blood stream. Consultation with a plastic surgeon or reconstructive hand surgeon may be advisable.*

To reduce the risk of component rupture, fire or explosion:

Never exceed the *5000 psi (350 bar) Maximum Working Pressure* of the valve, or of the lowest rated component in the system.

Never alter or modify any part of the valve.

Check the valve regularly and repair or replace worn or damaged parts immediately.

Be sure all fluids and solvents used are chemically compatible with the wetted parts listed in the Parts Lists, and with the wetted parts in all other system components.

Always use the valve only for its intended purpose as described in this instruction manual.

Pressure Relief Procedure

Always follow this procedure before installing, removing, cleaning or repairing any part of the system.

1. Engage the spray gun safety latch and any other equipment safety locks.
2. Turn off the power to the pump.
3. Disengage the gun safety latch and trigger the spray gun to relieve pressure.
4. Engage the spray gun safety latch and slowly open the system drain valve(s). Keep hands away from the end of the drain valve when opening it.
5. Leave the drain valve(s) open until you are ready to use the system again.

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.

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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.

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

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