

Fluid Controls and Fittings

307016T

ΕN

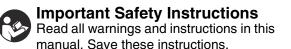
Part No. 223627, 208085, 223621, 208082, 223622, 223623, 223624, 208250, 214019, 223626, and 210097

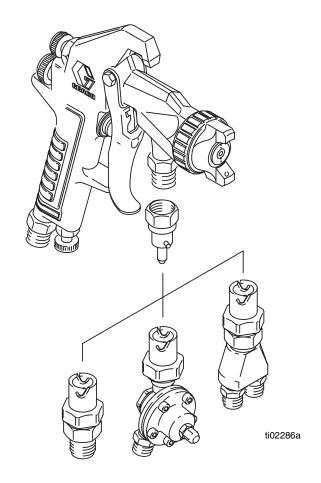
200 psi (1.4 MPa, 14 bar) Maximum Inbound Fluid Pressure

Part No. 223625 and 223628

300 psi (2.1 MPa, 21 bar) Maximum Inbound Fluid Pressure

See page 2 for model information





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Models

	Twist Lock	Slip Ring	Union Adapter	Twist Lock
Coupler Stems 3/8 npsm				
Models	223627* 1.0 oz	208085* 1.5 oz		223628* 1.3 oz
Gun Mounted Fluid Regulators 1/4 npsm inlet & return ports 5 to 35 psi (0.5 to 2.5 bar) Regulated Pressure				
Models	223621* 7.0 oz	208082* 7.5 oz	223622* 7.0 oz	223623* 7.3 oz
Straight Adapters 3/8 npsm inlet				
Models	223624*	208250		223625*
Circulating Adapters 1/4 npsm inlet & return ports				
Models	214019 223626*			210097
* Stainless Steel Models				

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

NOTE: The following warning applies only to Models 214018, 208250, 214019, and 210097, which contain aluminum housings.

WARNING



PRESSURIZED ALUMINUM PARTS HAZARD

Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.

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Installation

Connect the Fluid Hose

Regulators or Circulating Adapters

Connect the fluid hoses to the 1/4 npsm(m) inlet and return fittings.

Straight Adapter

Connect a hose to the 3/8 npsm(m) inlet fitting.

Connect the Regulator or Adapter to the Gun

Model 223622

Screw the regulator union adapter onto the gun fluid inlet.

Models with Twist-lock Couplers

Screw the coupler stem onto the gun inlet. Connect the twist-lock couplers by lining up the coupler slots with the pins on the stem, pushing the coupler onto the stem, then twisting the coupler clockwise to lock it.

Models with Slip-ring Couplers

Pull the slip ring back as you push the coupler onto the stem.

Operation

NOTICE

To avoid damaging the regulator diaphragm, never exceed 200 psi (1.4 MPa, 14 bar) Maximum Inbound Fluid Pressure to the regulator.

To Adjust the Fluid Pressure

Trigger the gun. Turn the fluid regulator setscrew (2) clockwise to the desired setting. Release the gun trigger, tighten the locknut (1), and install the acorn nut (16).

Service





To reduce the risk of serious injury, including splashing in the eyes or on the skin, always shut off the air and fluid pressure to the gun and trigger the gun to relieve pressure in the hoses before disconnecting hoses from the regulator or adapter.

To Clean or Service the Regulator

- 1. Relieve the air and fluid pressures.
- 2. Disconnect the regulator from the gun and the hoses from the regulator.
- 3. Disassemble the regulator. Refer to the Parts Draw-
- 4. Clean and inspect the parts carefully.
- 5. Replace worn or damaged parts and reassemble the regulator. Be sure the nylon side of the diaphragm (12) faces the fluid.

Torque Notes:

Diaphragm Nut (3) onto Valve Stem (8): 6 to 10 in-lb (0.7 to 1.1 Nom)

Screws (5) into the Housing (18): 20 to 30 in-lb (2.3 to 3.4 N•m)

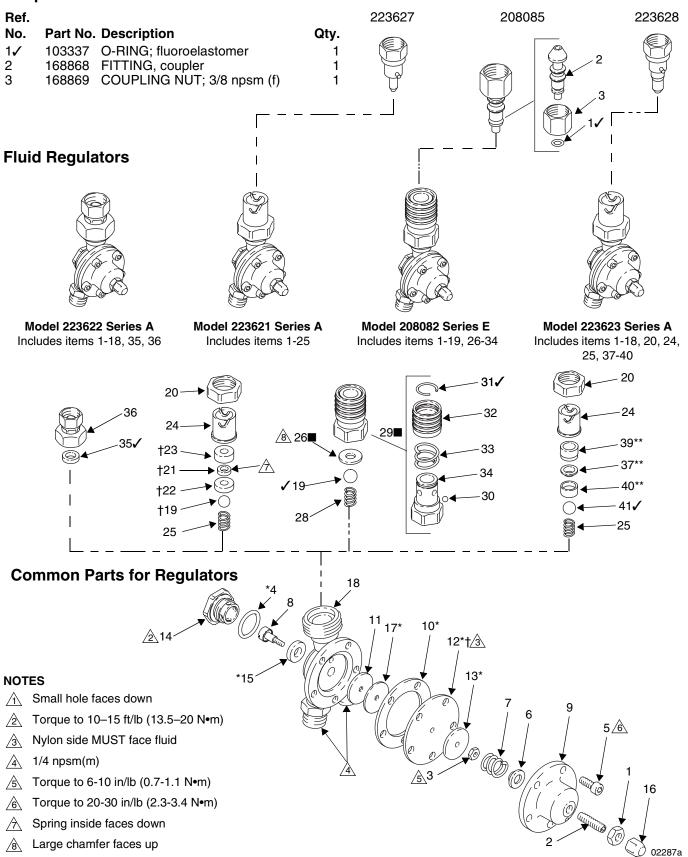
Cap (14) into the Housing (18): 10 to 15 ft-lb (13.5 to 20.0 N•m)

Parts

Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1		NUT, hex mach; No. 10-32	1	28	168891	SPRING, compression	1
2		SCREW, set, hex socket;	1	29■		SLIP RING COUPLER ASSY.	1
		No. 10-32 x 3/4"				Includes items 30-34	
3	102980	NUT, hex; stainless steel;	1	30	100172	BALL; chrome alloy,	3
		No. 4-40				0.188" (4.76 mm) dia.	
4*	102982	O-RING; PTFE	1	31✔		RING, retaining	1
5	103229		5	32		RING, coupler	1
Ü	100220	SCREW, cap, socket head;	Ŭ	33	168875	SPRING, compression	1
•	107044	No. 8-32 x 3/8"	4	34		HOUSING, coupler	1
6 7		RETAINER, spring	1	35✓		GASKET; acetal	1
8		SPRING, compression VALVE STEM	1	36	223892		1
9		HOUSING, upper	1	07**	170040	swivel	
10*		GASKET; cellulose fibre	1	37**		SEAL; nylon	1
11		WASHER, back-up	i	38**	103075	BALL; stainless steel,	ı
12*†		DIAPHRAGM; nylon & buna-n	1	39**	170047	0.438" (11.1 mm) dia.	4
13*	168881	WASHER; acetal	1	39 40**		GUIDE, coupler stem BALL SEAT; PTFE	1
14	168884		1	40 41 √		BALL; stainless steel,	1
15*	169597	VALVE SEAT	1	410	111213	0.438" (11.1 mm) dia.	
16	170303	ACORN NUT; No. 10-32	1			0.436 (11.1 mm) dia.	
17*		GASKET; cellulose fibre	1		/ Dagam	manded "tool how" anara narta Kaa	_
18	208086	HOUSING, lower;	1	•		mended "tool box" spare parts. Kee	
		Models 223621, 208082, &				pare parts on hand to reduce down	
		223622 only				parts are included in Repair Kit 2083	380,
	208180	HOUSING, lower;	1		_	nay be purchased separately.	
401	404047	Model 223623 only		•		parts are included in Repair Kit 217	502,
19†	101947	BALL; stainless steel;	1		which n	nay be purchased separately.	
00	100000	0.375" (9.5 mm) dia.			† These 🏻	parts are included in Repair Kit 210	786,
20		COUPLING NUT; stainless steel	1		which n	nay be purchased separately.	
21† 22†		SEAL, spring loaded; PTFE BALL SEAT; PTFE	1	7	Access	ory PTFE Diaphragm 185028 with F	PET
23†		HOUSING, seal; acetal	1		Backing	g Diaphragm 168880 is available. S	ee
24		HOUSING, seal, acetal HOUSING, coupler; stainless steel	1		page 10		
25		SPRING, compression	1	ı	_ ` -	parts are included in Repair Kit 24U	819.
26■	. 00000	VALVE SEAT; acetal	1			nay be purchased separately.	- · •,
			•			, se parariacea coparatory.	

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Coupler Stems



Straight Adapters

NOTES

1 3/8 npsm(m)

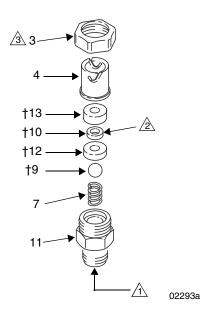
Spring inside faces down

3 Torque to 15-25 ft/lb (20-34 N•m)



Model 223624 Series A TWIST LOCK COUPLER

Includes items 3-13



Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
3	186203	COUPLING NUT; stainless steel	1	10†	104338	SEAL, spring loaded; PTFE	1
4		HOUSING, coupler; stainless steel	1	11	170755	HOUSING, straight adapter	1
7		SPRING, compression	1	12†	171887	BALL SEAT; PTFE	1
9†		BALL; stainless steel;	1	13†	171888	HOUSING, seal; acetal	1
·		0.375" (9.5 mm) dia.			† These p	parts are included in Repair Kit 21078	6,
		(212 iiii) (313			which m	nay be purchased separately.	

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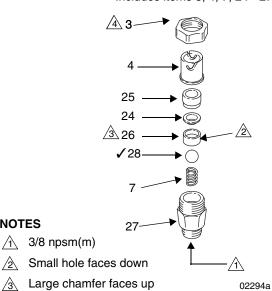
NOTES

Straight Adapters



Model 223625 Series A **TWIST LOCK COUPLER**

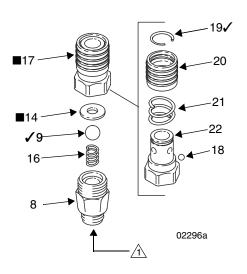
Includes items 3, 4, 7, 24 - 27





Model 208250 Series B **SLIP RING COUPLER**

Includes items 8, 9, 14 - 22



Ref.			
No.	Part No.	Description	Qty.
3	186203	COUPLING NUT; stainless steel	1
4	186202	HOUSING, coupler; stainless steel	1
7	168890	SPRING, compression	1
8	169472	HOUSING, straight adapter	1
9✔	101947	BALL; stainless steel;	1
		0.375" (9.5 mm) dia.	
14■		VALVE SEAT; acetal	1
16	168891	SPRING, compression	1
17■		SLIP RING COUPLER ASSY.	
		Includes items 18-22	
18	100172	BALL; chrome alloy,	3
		0.188" (4.76 mm) dia.	
19✔	157230	RING, retaining	1
20	168874	RING, coupler	1

Torque to 15-25 ft-lb (20-34 N•m)

	Ref.			
	No.	Part No.	Description	Qty.
	21	168875	SPRING, compression	1
	22		HOUSING, coupler	1
	24	178846	SEAL; nylon	1
	25	178847	GUIDE, coupler stem	1
	26	178848	BALL SEAT; PTFE	1
	27	180050	HOUSING, straight adapter	1
	28✔	111279	BALL; stainless steel,	1
			0.438" (11.1 mm) dia.	
		/ Recomi	mended "tool box" spare parts. Keep	on
		hand to	reduce downtime.	
}	1	■ These	parts are included in Repair Kit 24U8	19,

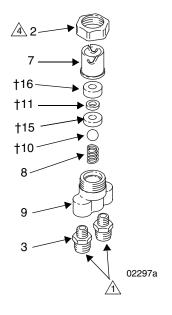
which may be purchased separately.

Circulating Adapters



Model 214019 Series B TWIST LOCK COUPLER

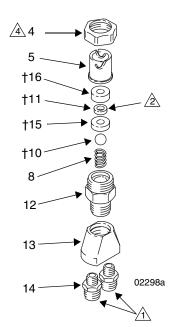
Includes items 2, 3, 7 - 11, 15, 16

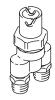




Model 223626 Series A TWIST LOCK COUPLER

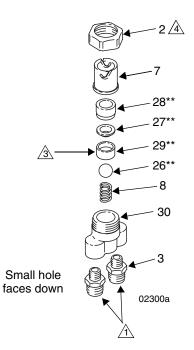
Stainless Steel Includes items 4, 5, 7, 8, 10 - 16





Model 210097 Series B TWIST LOCK COUPLER

Includes items 2, 3, 7, 8, 26 - 30



NOTES

1/4 npsm(m)

A Torque to 15–25 ft/lb (20–34 N•m)

Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	. Description	Qty.
2	167394	COUPLING NUT	1	16†	171888	HOUSING, seal; acetal	1
3	167395	HOSE ADAPTER; 1/4 npsm(m)	2	26**	103075	BALL; stainless steel,	1
4	186203	COUPLING NUT; stainless steel	1			0.438" (11.1 mm) dia.	
5	186202	HOUSING, coupler; stainless steel	1	27**	178846	SEAL; nylon	1
7	181578	HOUSING, coupler	1	28**	178847	GUIDE, coupler stem	1
8	168890	SPRING, compression	1	29**	178848	BALL SEAT; PTFE	1
9	169473	HOUSING, circulating adapter	1	30	169471	HOUSING, circulating adapter	1
10†	101947	BALL; stainless steel;	1				
		0.375" (9.5 mm) dia.			† These p	parts are included in Repair Kit 2107	⁷ 86,
11†	104338	SEAL, spring loaded; PTFE	1		which n	nay be purchased separately.	
12	170755	HOUSING, straight adapter	1		** These p	parts are included in Repair Kit 2175	502,
13	171233	HOUSING, circulating adapter	1		which n	nay be purchased separately.	
14		HOSE ADAPTER; 1/4 npsm(m)	2			, , , , , , , , , , , , , , , , , , , ,	
15†	171887	BALL SEAT; PTFE	1				

Accessories

Accessories must be purchased separately

PTFE Diaphragm 185028, with PET Backing Diaphragm 168880*

Use when regulator must be submersed in a solvent incompatible with the buna-n backing of the standard diaphragm 178321.

* The PTFE diaphragm must face the fluid, with the PET diaphragm used as backing.

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Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale 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.

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