

High-Flo Retrofit Connection Kits

311876 rev.A

Connection kits for High-Flo air motors.



Important Safety Instructions

Read all warnings and instructions in **Operation** manual.
Save these instructions.

Contents

Old High-Flo to NXT Connection Kit 288202	3
Parts List and Drawing	3
Pump Performance Charts	4
NXT 2200 with 1000cc Lower	4
NXT 2200 with 1500cc Lower	5
NXT 3400 with 1500cc Lower	5
New High-Flo to Bulldog and Senator	
Connection Kit 288208	7
Parts List and Drawing	7
Pump Performance Charts	8
Senator with 1000cc Lower	8
Senator with 1500cc Lower	9
Senator with 2000cc Lower	9
Bulldog with 1500cc Lower	10
Bulldog with 2000cc Lower	10
High-Flo to President Connection Kit 288504	11
Parts List and Drawing	11
Pump Performance Charts	12
President with 1000cc Lower	12
President with 1500cc Lower	13
President with 2000cc Lower	13

PROVEN QUALITY. LEADING TECHNOLOGY.



A series of horizontal lines for writing, consisting of 20 rows. Each row is defined by two parallel lines, with a small gap between the lines in each row.

Old High-Flo* to NXT Connection Kit 288202

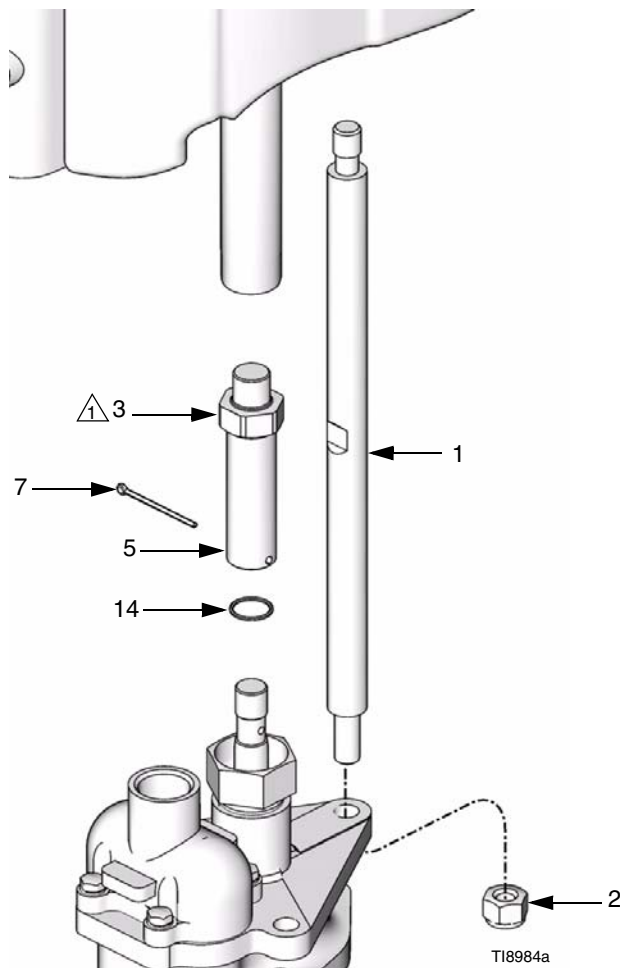
* NXT 2200 motor to be used with 239834, 239837, 240608, 240609, 239835, 239838, 240606, 240607, and 15D787 only.
NXT 3400 motor to be used with 239835, 239838, 240606, 240607, and 15D787 only.

CAUTION

Using a NXT 2200 motor with a 760cc lower or using a NXT 3400 motor with a 760cc or 1000cc lower could cause dangerous overpressurization.

Parts List and Drawing

Ref. Part.	Description	Qty
1	15G924 ROD, tie	3
2	108683 NUT, lock, hex	3
3	111368 COLLAR, coupling	1
5	15H980 ADAPTER, lg mr	1
7	100103 PIN, cotter	1
14	108284 PACKING, o-ring	1



△1 Torque to 145-155 ft-lb (196 -210 N•m)

Pump Performance Charts

Fluid Outlet Pressure

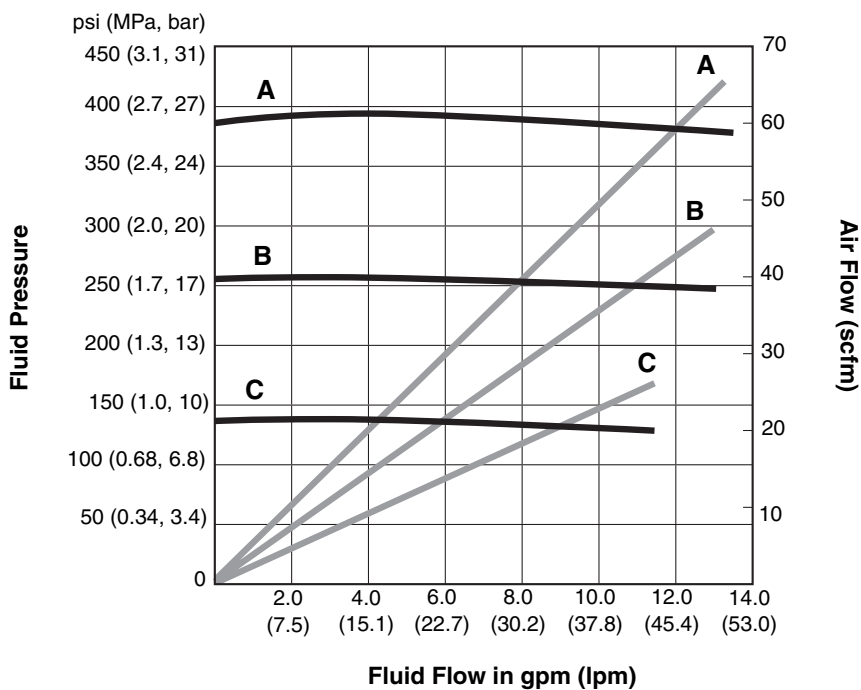
To find fluid outlet pressure (MPa/bar/psi) at a specific flow (lpm/gpm) and operating pressure (A/B/C):

1. Locate desired flow at bottom of chart.
2. Follow vertical line up to intersection with selected operating pressure curve (solid line). Follow left to scale to read fluid outlet pressure.

Key

- A** 0.7 MPa, 7 bar (100 psi) air pressure
- B** 0.5 MPa, 4.9 bar (70 psi) air pressure
- C** 0.3 MPa, 2.8 bar (40 psi) air pressure
- Test Fluid:** No. 10 Weight Oil

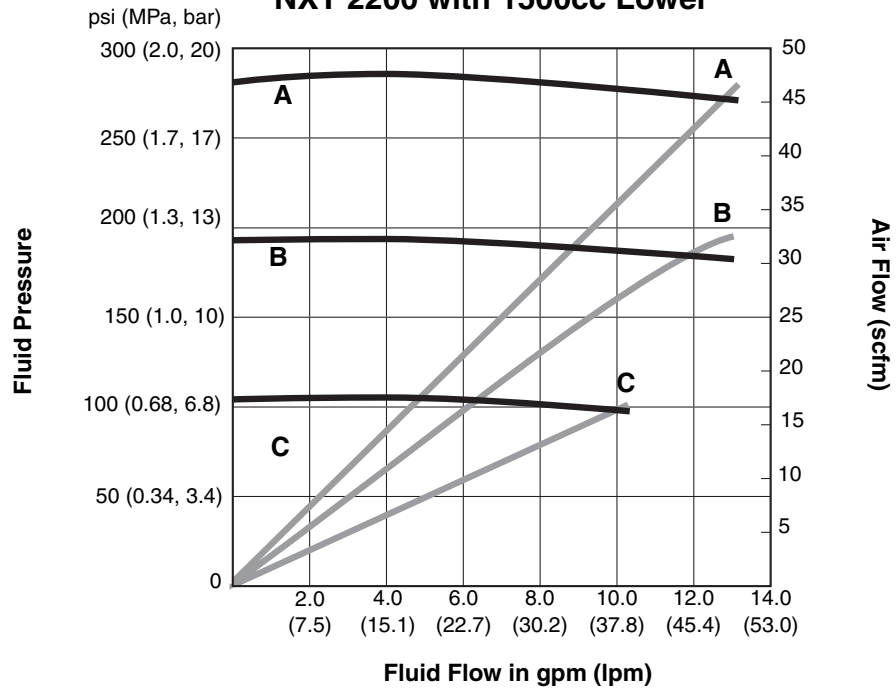
NXT 2200 with 1000cc Lower



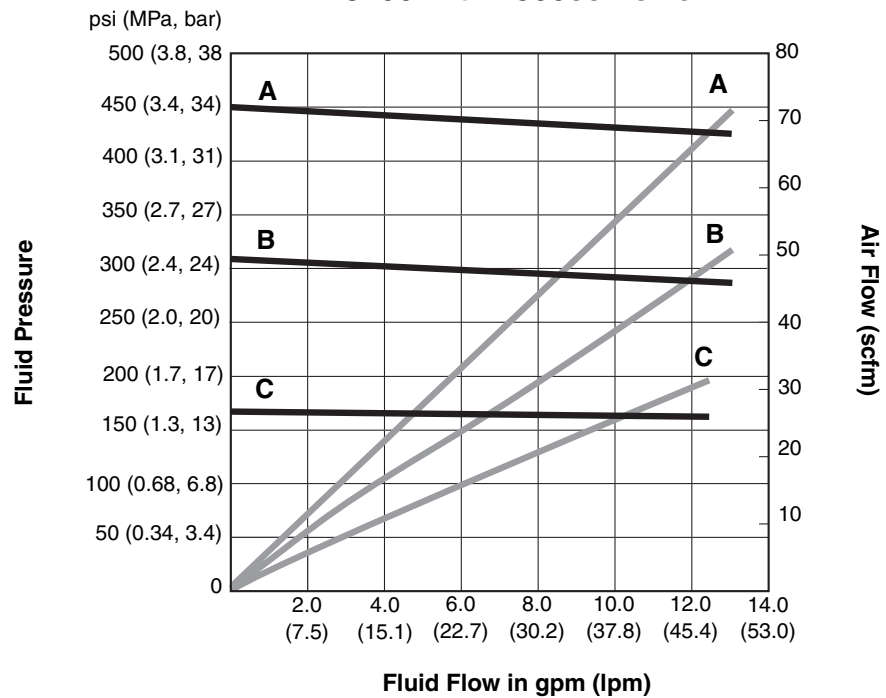
Key

- A** 0.7 MPa, 7 bar (100 psi) air pressure
- B** 0.5 MPa, 4.9 bar (70 psi) air pressure
- C** 0.3 MPa, 2.8 bar (40 psi) air pressure
- Test Fluid:** No. 10 Weight Oil

NXT 2200 with 1500cc Lower



NXT 3400 with 1500cc Lower





Lined area for notes or calculations, consisting of multiple horizontal lines.

New High-Flo* to Bulldog and Senator Connection Kit 288208

* Bulldog air motors to be used with models 253034, 253062, 253085, 253397, 253521, 253524, 253569, 253035, 253063, 253086, 253396, 253522, 253525, and 253270 only.

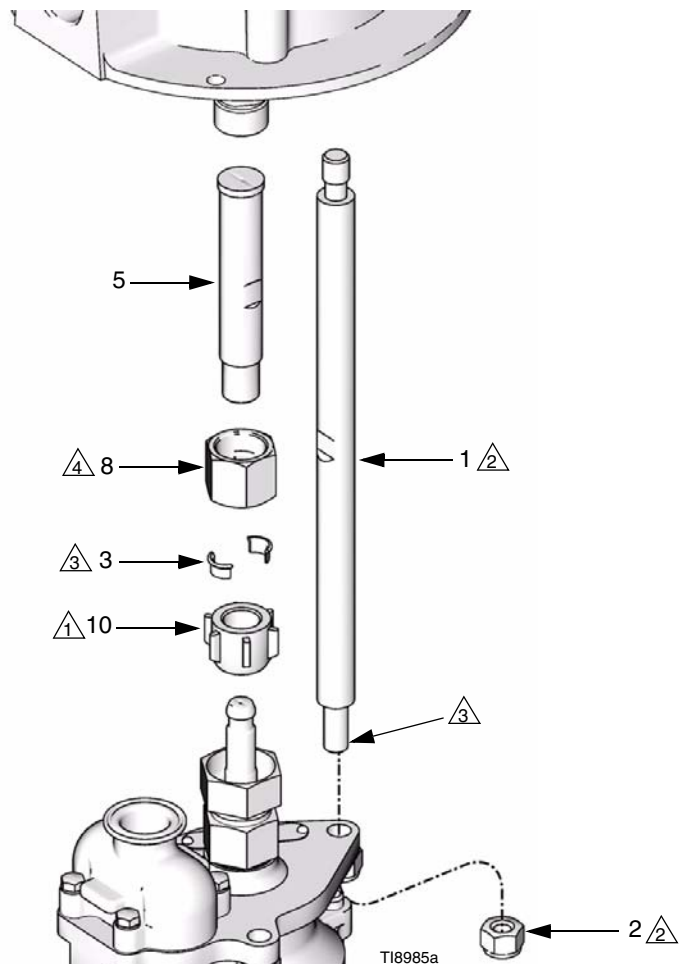
Senator air motors to be used with models 253034, 253062, 253085, 253397, 253521, 253524, 253569, 253035, 253063, 253086, 253396, 253522, 253525, and 253270, as well as 253033, 253061, 253398, 253423, 253520, 253523, and 253568 only.

CAUTION

Using a Bulldog air motor with a 1000cc lower could cause dangerous overpressurization.

Parts List and Drawing

Ref.	Part.	Description	Qty
1	183089	ROD, tie	3
2	108527	NUT, lock, hex	3
3	184128	COLLAR, coupling	2
5	15H981	ADAPTER, lg mr	1
8	184059	NUT, coupling	1
10	183079	NUT, coupling	1



① Torque to 145-150 ft-lb (196-203 N•m).

② Torque to 50-60 ft-lb (68-91 N•m).

③ Apply lubricant.

④ Torque to 75-80 ft-lb (102-109 N•m).

Pump Performance Charts

Fluid Outlet Pressure

To find fluid outlet pressure (MPa/bar/psi) at a specific flow (lpm/gpm) and operating pressure (A/B/C):

1. Locate desired flow at bottom of chart.
2. Follow vertical line up to intersection with selected operating pressure curve (solid line). Follow left to scale to read fluid outlet pressure.

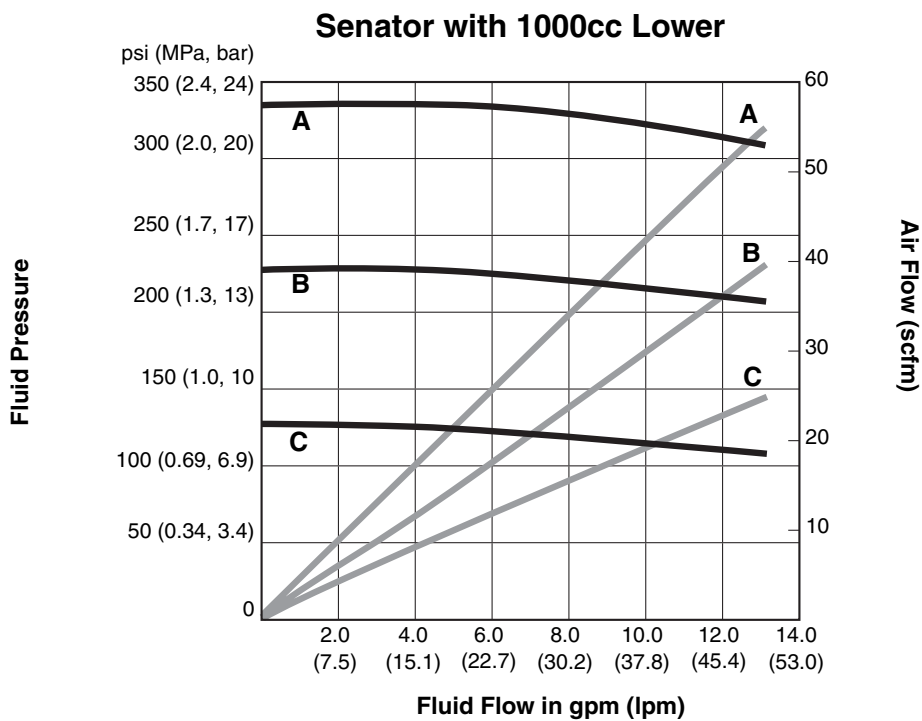
Key

A 0.7 MPa, 7 bar (100 psi) air pressure

B 0.5 MPa, 4.9 bar (70 psi) air pressure

C 0.3 MPa, 2.8 bar (40 psi) air pressure

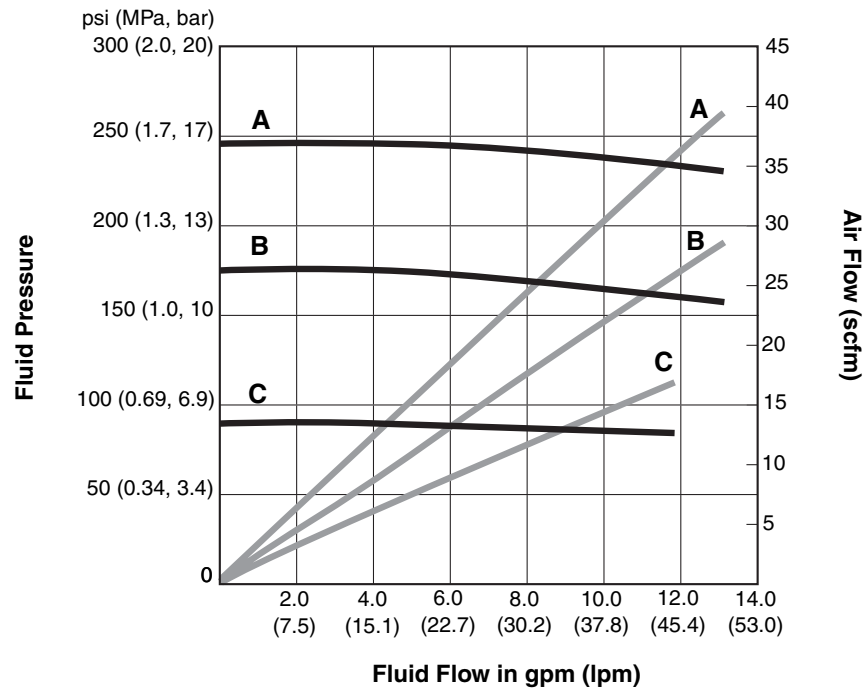
Test Fluid: No. 10 Weight Oil



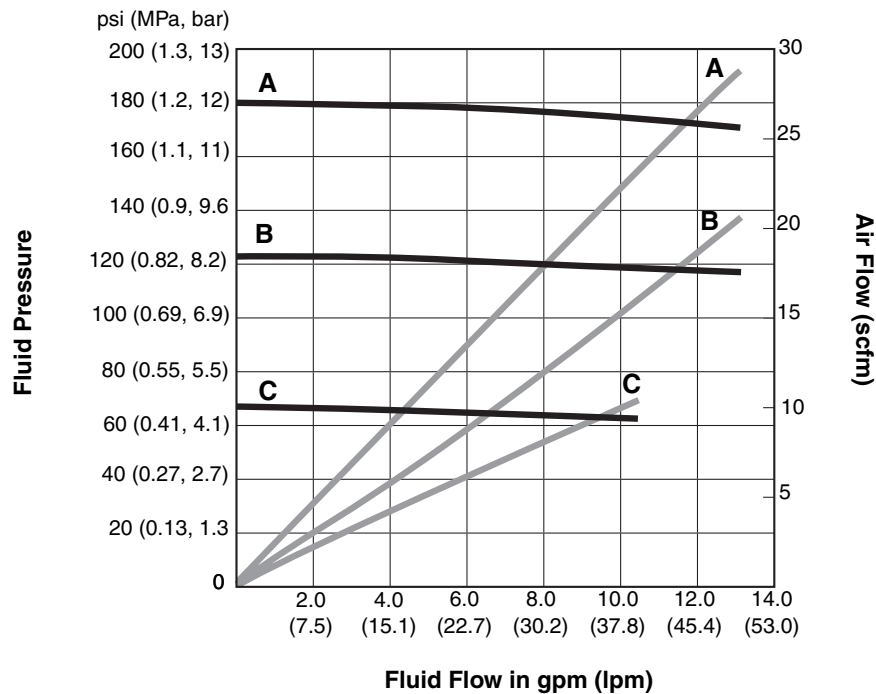
Key

- A** 0.7 MPa, 7 bar (100 psi) air pressure
- B** 0.5 MPa, 4.9 bar (70 psi) air pressure
- C** 0.3 MPa, 2.8 bar (40 psi) air pressure
- Test Fluid:** No. 10 Weight Oil

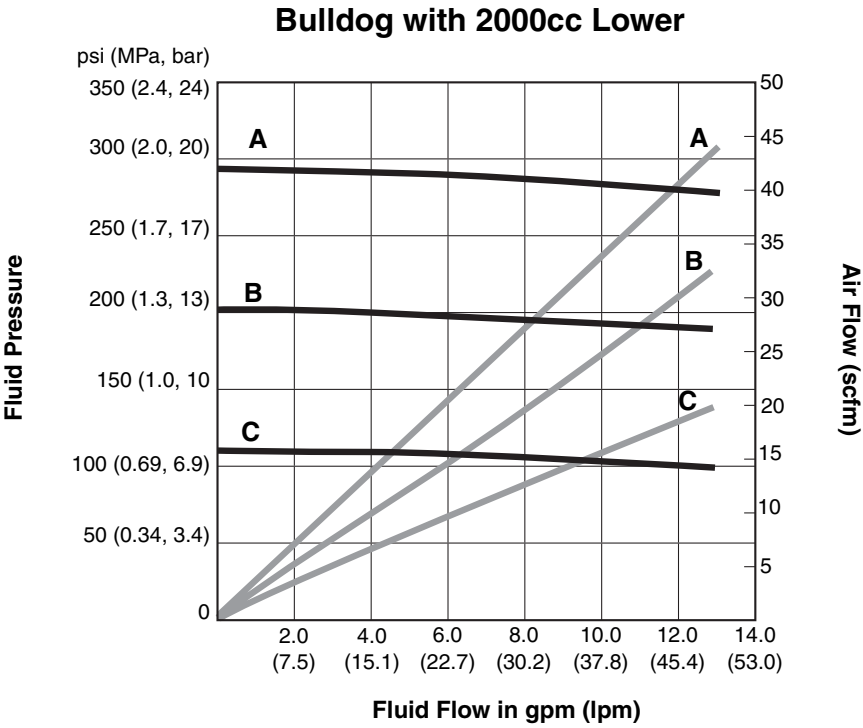
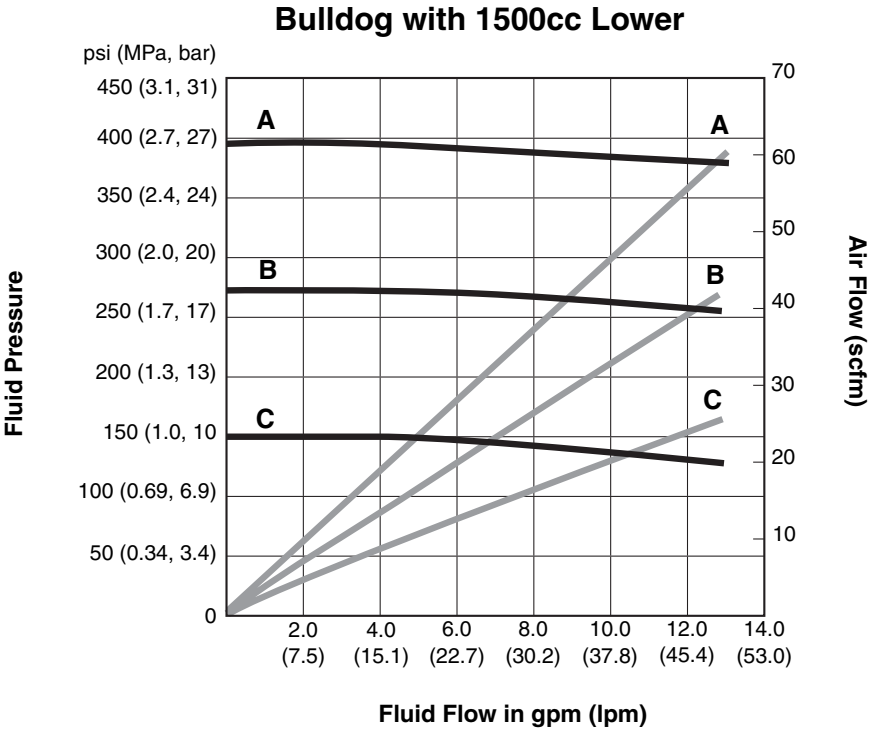
Senator with 1500cc Lower



Senator with 2000cc Lower



- Key**
- A** 0.7 MPa, 7 bar (100 psi) air pressure
 - B** 0.5 MPa, 4.9 bar (70 psi) air pressure
 - C** 0.3 MPa, 2.8 bar (40 psi) air pressure
- Test Fluid:** No. 10 Weight Oil



High-Flo* to President Connection Kit 288504

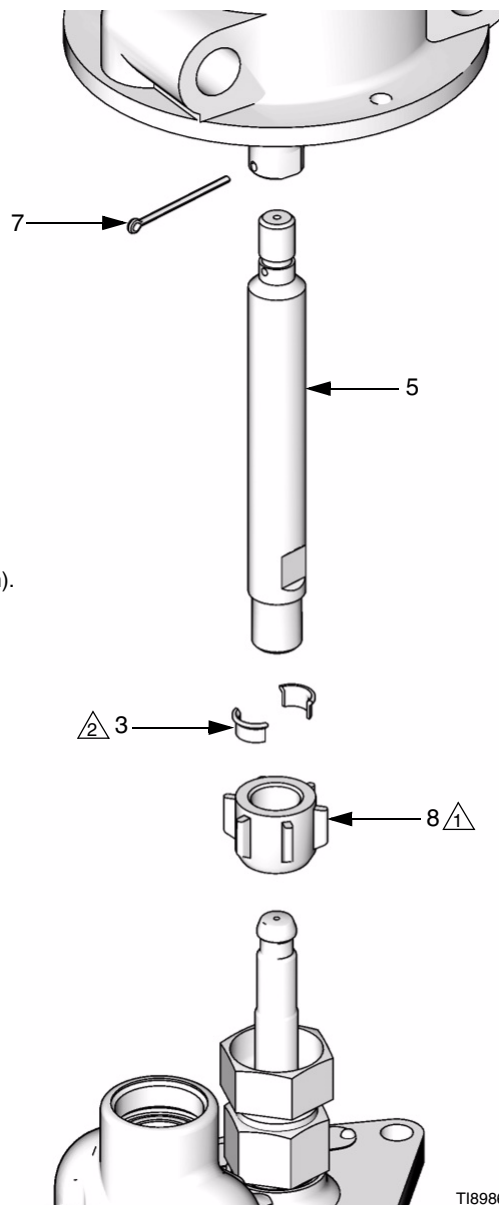
* President air motors to be used with 253034, 253062, 253085, 253397, 253521, 253524, 253569, 253035, 253063, 253086, 253396, 253522, 253525, 253570, 253033, 253061, 253398, 253423, 253520, 253523, and 253568 only.

Parts List and Drawing

Ref.	Part.	Description	Qty
3	184128	COLLAR, coupling	2
5	15J948	ADAPTER	1
7	100579	PIN, cotter	1
8	184059	NUT, coupling	1

△1 Torque to 145-150 ft-lb (197-203 N•m).

△2 Apply lubricant.



TI8986a

Pump Performance Charts

Fluid Outlet Pressure

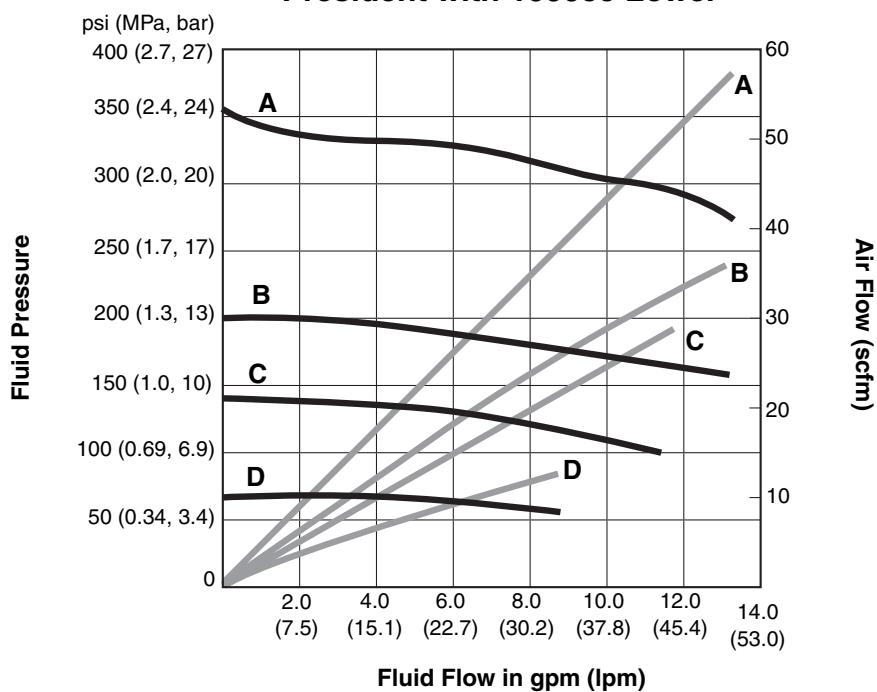
To find fluid outlet pressure (MPa/bar/psi) at a specific flow (lpm/gpm) and operating pressure (A/B/C/D):

1. Locate desired flow at bottom of chart.
2. Follow vertical line up to intersection with selected operating pressure curve (solid line). Follow left to scale to read fluid outlet pressure.

Key

- A** 1.17 MPa, 11.7 bar (170 psi) air pressure
 - B** 0.7 MPa, 7 bar (100 psi) air pressure
 - C** 0.5 MPa, 4.9 bar (70 psi) air pressure
 - D** 0.3 MPa, 2.8 bar (40 psi) air pressure
- Test Fluid:** No. 10 Weight Oil

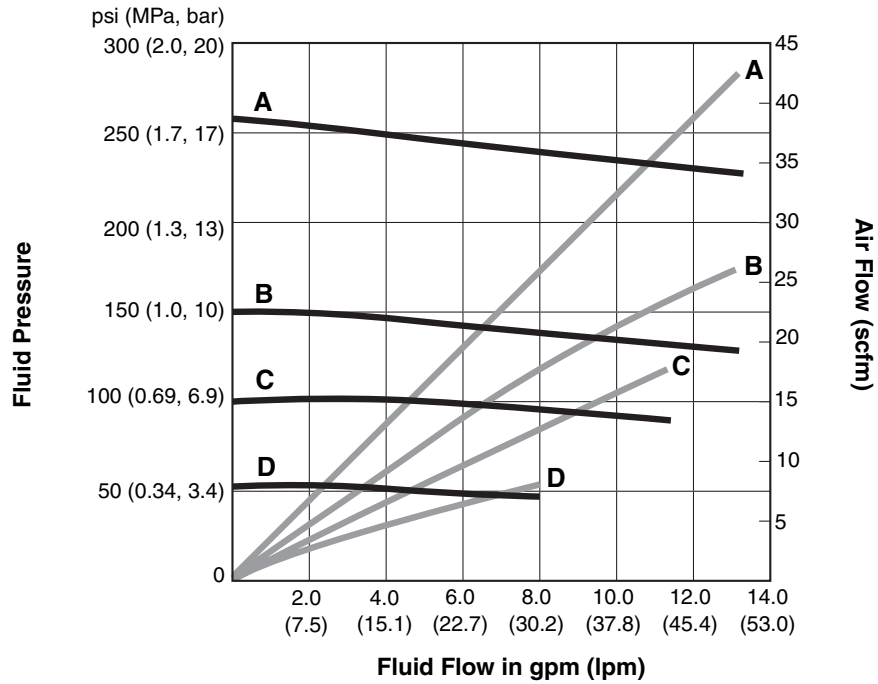
President with 1000cc Lower



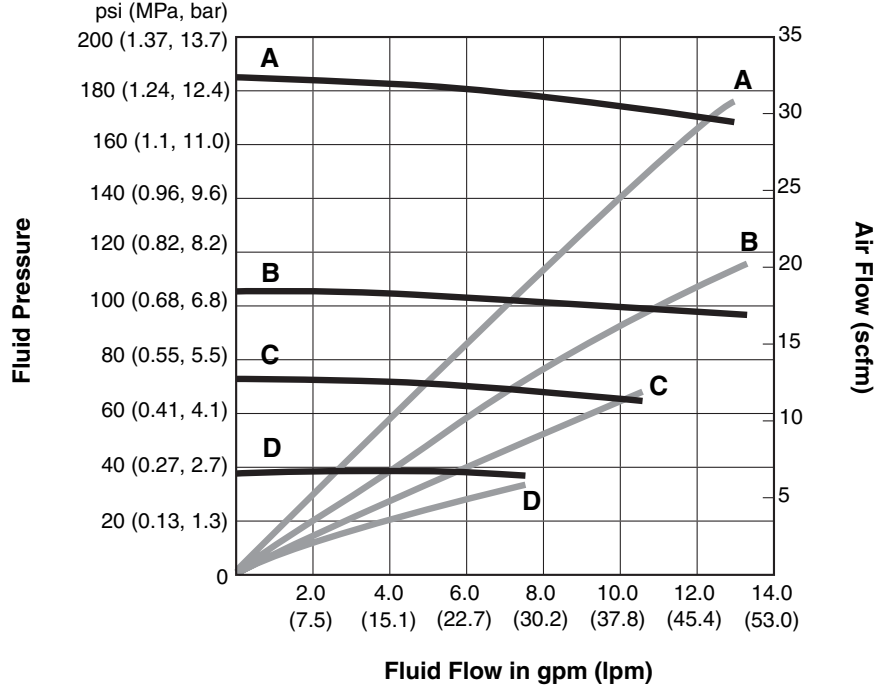
Key

- A** 1.17 MPa, 11.7 bar (170 psi) air pressure
 - B** 0.7 MPa, 7 bar (100 psi) air pressure
 - C** 0.5 MPa, 4.9 bar (70 psi) air pressure
 - D** 0.3 MPa, 2.8 bar (40 psi) air pressure
- Test Fluid:** No. 10 Weight Oil

President with 1500cc Lower



President with 2000cc Lower



*All written and visual data contained in this document reflects the latest product information available at the time of publication.
Graco reserves the right to make changes at any time without notice.*

This manual contains English. MM 311876

Graco Headquarters: Minneapolis

International Offices: Belgium, China, Japan, Korea

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

www.graco.com

311876A, 12/2006, Revised 12/2006