

# AIR OPERATED PUMPS . . . High viscosity fluid transfer and supply pumps



**2" Bung • 3.3 GPM • 2500 PSI / 5 GPM • 2500 PSI**

## 25:1 "ROYAL 70" AND "ROYAL 77" PUMPS (7" AIR MOTOR) HEAVY DUTY INDUSTRIAL AIR MOTOR PUMPS WITH GROVER AIR BOOSTER VALVES

Divorced pump models with 7" booster valve assisted air motor for high viscosity or high pressure fluid applications or for long supply lines. Air motor booster valves include mufflers. Pumps feature Grover's exclusive wet-cup design.

Pumps can be mounted on 55-gallon bung type drums by adding siphon tube. Pumps have threaded foot-valve for installing siphon hoses when wall or cart mounted. Use drum bracket for open-top drums. 7" air motor pumps are too heavy for 5-gallon pail mounting. Pumps have 2" NPT (M) adapter for mounting to 2" bung opening.

**PUMP NO. R70-B23 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

**PUMP NO. R70-B24 (PAIL LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.

**PUMP NO. R77-B23 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

**PUMP NO. R77-B24 (PAIL LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.

NOTE: These pumps are NOT airless designed plunger pumps.



R70-B23  
R70-B24

25:1 ROYAL PUMP SPECIFICATIONS

AIR MOTOR DIAMETER	7"
LENGTH R70 LENGTH R77	42-1/6" 50-13/16"
AIR INLET	1/2" NPT(M)
FLUID INLET	1" NPT(F)
FLUID OUTLET	3/4" NPT(F) (SWIVEL)
OPTIONAL AIR REGULATOR AND GAUGE	368P
OPTIONAL DRUM BRACKET	8196A
OPTIONAL WALL BRACKET	8123A
BOOSTER VALVES	4

25:1 ROYAL PUMP PERFORMANCE

Pump Series	CY-CLES PER GAL.	AIR REQUIRED (CFM) FOR EA. GAL. DELIVERED			STROKE	MAXIMUM FLUID DEL. IN GPM	
		60 PSI	80 PSI	100 PSI		CONTINUOUS	INTERMITTENT
R70-B2	18	15.0	19.0	23.0	4 1/2"	3.3	5.5
R77-B2	12	15.0	19.0	23.0	7"	5	8.3



## AIR OPERATED PUMPS

... High pressure/  
high volume  
transfer and  
supply pumps

**8.5 GPM • 1100 PSI / 13.3 GPM • 1100 PSI**

**11:1 "ROYAL 70" AND "ROYAL 77"  
PUMPS (7" AIR MOTOR)**

**HEAVY DUTY INDUSTRIAL AIR MOTOR PUMPS  
WITH GROVER AIR BOOSTER VALVES**

Divorced pump models with 7" booster valve assisted air motor for high volume fluid applications. Pumps feature Grover's exclusive wet-cup design and air motor includes mufflers.

**PUMP NO. R70-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R70-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R70-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R70-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R70-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R70-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R77-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R77-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R77-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R77-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R77-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R77-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R70-31  
R70-32  
R70-33  
R70-34  
R70-35  
R70-36

11:1 ROYAL PUMP  
SPECIFICATIONS

AIR MOTOR DIAMETER	7"
LENGTH R70 LENGTH R77	44-5/8" 53-3/8"
AIR INLET	1/2" NPT(M)
FLUID INLET	2" NPT(M)
FLUID OUTLET	3/4" NPT(F) (SWIVEL)
OPTIONAL AIR REGULATOR AND GAUGE	368P
OPTIONAL DRUM BRACKET	8196A
OPTIONAL WALL BRACKET	8123A
BOOSTER VALVES	4

11:1 ROYAL PUMP PERFORMANCE

Pump Series	CY- CLES PER GAL.	AIR REQUIRED (CFM) FOR EA. GAL. DELIVERED			STROKE	MAXIMUM FLUID DEL. IN GPM	
		60 PSI	80 PSI	100 PSI		CONTIN- UOUS	INTERMIT- TENT
R70-3	7	8.0	10.0	12.0	4 1/2"	8.5	14.2
R77-3	4.5	8.0	10.0	12.0	7"	13.3	22.2

# AIR OPERATED PUMPS

... High pressure/  
high volume  
transfer and  
supply pumps



15 GPM • 700 PSI / 23 GPM • 700 PSI

## 7:1 "ROYAL 70" AND "ROYAL 77" PUMPS (7" AIR MOTOR) HEAVY DUTY INDUSTRIAL AIR MOTOR PUMPS WITH GROVER AIR BOOSTER VALVES

Divorced pump models with 7" booster valve assisted air motor for high volume fluid applications. Pumps feature Grover's exclusive wet-cup design and air motor includes mufflers.

**PUMP NO. R70-41 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R70-42 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R70-43 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R70-44 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R70-45 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R70-46 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R77-41 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R77-42 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R77-43 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R77-44 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R77-45 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R77-46 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



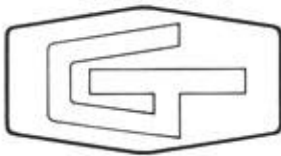
R70-41  
R70-42  
R70-43  
R70-44  
R70-45  
R70-46

7:1 ROYAL PUMP  
SPECIFICATIONS

AIR MOTOR DIAMETER	7"
LENGTH R70 LENGTH R77	47-5/8" 56-3/8"
AIR INLET	1/2" NPT(M)
FLUID INLET	2" NPT(M)
FLUID OUTLET	3/4" NPT(F) (SWIVEL)
OPTIONAL AIR REGULATOR AND GAUGE	368P
OPTIONAL DRUM BRACKET	8196A
OPTIONAL WALL BRACKET	8123A
BOOSTER VALVES	4

7:1 ROYAL PUMP PERFORMANCE

Pump Series	CY- CLES PER GAL.	AIR REQUIRED (CFM) FOR EA. GAL. DELIVERED			STROKE	MAXIMUM FLUID DEL. IN GPM	
		60 PSI	80 PSI	100 PSI		CONTIN- UOUS	INTERMIT- TENT
R70-4	4	5.0	6.3	7.7	4 1/2"	15	25
R77-4	2.6	5.0	6.3	7.7	7"	23	39



## AIR OPERATED PUMPS

... High pressure/  
high volume  
transfer and  
supply pumps

8.5 GPM • 1400 PSI / 13.3 GPM • 1400 PSI

### 14:1 "ROYAL 80" AND "ROYAL 87" PUMPS (8" AIR MOTOR) HEAVY DUTY INDUSTRIAL AIR MOTOR PUMPS WITH GROVER AIR BOOSTER VALVES

Divorced pump models with 8" booster valve assisted air motor for high volume fluid applications. Pumps feature Grover's exclusive wet-cup design and air motor includes mufflers.

**PUMP NO. R80-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R80-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R80-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R80-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R80-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R80-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R87-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R87-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R87-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R87-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R87-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R87-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R80-31  
R80-32  
R80-33  
R80-34  
R80-35  
R80-36

14:1 ROYAL PUMP  
SPECIFICATIONS

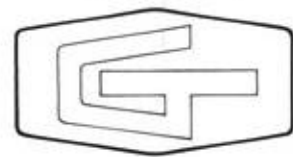
AIR MOTOR DIAMETER	8"
LENGTH R80 LENGTH R87	44-5/8" 53-3/8"
AIR INLET	1/2" NPT(M)
FLUID INLET	2" NPT(M)
FLUID OUTLET	3/4" NPT(F) (SWIVEL)
OPTIONAL AIR REGULATOR AND GAUGE	368P
OPTIONAL DRUM BRACKET	8196A
OPTIONAL WALL BRACKET	8123A
BOOSTER VALVES	4

14:1 ROYAL PUMP PERFORMANCE

Pump Series	CY- CLES PER GAL.	AIR REQUIRED (CFM) FOR EA. GAL. DELIVERED			STROKE	MAXIMUM FLUID DEL. IN GPM	
		60 PSI	80 PSI	100 PSI		CONTIN- UOUS	INTERMIT- TENT
R80-3	7	10.0	13.0	16.0	4 1/2"	8.5	14.2
R87-3	4.5	10.0	13.0	16.0	7"	13.3	22.2

**AIR OPERATED PUMPS**

... High pressure/  
high volume  
transfer and  
supply pumps



**15 GPM • 900 PSI / 23 GPM • 900 PSI**

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PUMPS (8" AIR MOTOR)**

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Wetted parts carbon steel and leather.

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**PUMP NO. R80-43 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R80-44 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R80-45 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R80-46 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R87-41 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R87-42 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R87-43 (STUBBY)** shipped as pump only.  
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**PUMP NO. R87-44 (STUBBY)** shipped as pump only.  
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R80-41  
R80-42  
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R80-46

9:1 ROYAL PUMP PERFORMANCE							
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9:1 ROYAL PUMP SPECIFICATIONS	
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