

# GROVER INDUSTRIAL TRANSFER AND SUPPLY PUMPS



**PUMP PRESSURE RATIOS**  
1:1 TO 48:1

**FLUID DELIVERIES**  
TO 50 GPM

**PUMP WETTED PARTS AVAILABLE**

- CARBON STEEL WITH TEFLON
- CARBON STEEL WITH BUNA N
- CARBON STEEL WITH LEATHER
- STAINLESS STEEL WITH TEFLON
- HARD CHROME CYLINDERS
- STAINLESS STEEL CYLINDERS

**PUMP STYLES AVAILABLE**

- 5-GALLON PAIL (2" BUNG)
- 55-GALLON DRUM (2" BUNG)
- OPEN TOP 55-GALLON DRUM
- WALL MOUNTED
- CART MOUNTED
- TANK MOUNTED
- "STROKER" PUMPS
- DISPENSOMATIC
- DIVORCED/INLINE
- WET-CUP
- CONE NUT/DOUBLE BALL
- PRIMING PISTON

**"ROYAL" AND "ROCKET" SERIES AIR MOTORS**

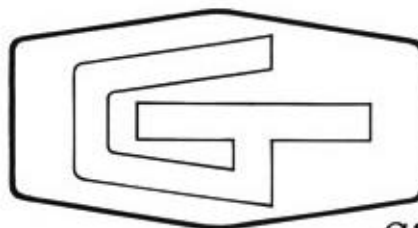
- 2½" ROCKET AIR MOTOR
- 3" ROCKET AIR MOTOR
- 3" ROYAL AIR MOTOR
- 4" ROYAL AIR MOTOR
- 5" ROYAL AIR MOTOR
- 7" ROYAL AIR MOTOR
- 8" ROYAL AIR MOTOR

**ACCESSORIES (See Section 7)**

- AIR REGULATOR AND GAUGES
- DRUM BRACKETS
- WALL BRACKETS
- 5-GALLON PAIL COVERS
- 55-GALLON DRUM COVERS
- HOSE
- AIR OPERATED PUMP ELEVATORS
- PORTABLE DOLLIES AND CARTS

**APPLICATIONS**

- ABRASIVES • ACIDS • ADHESIVES
- CLEANING COMPOUNDS • CHEMICALS
- DYES • INKS • INSECTICIDES
- LUBRICANTS • PAINTS
- PHARMACEUTICALS • RESINS
- SOAPS • SOLVENTS • WAXES



**NOTE:** Models and specifications subject to change without notice.

*Since 1925*



## TRANSFER AND SUPPLY PUMPS

### ADVANTAGES OF GROVER PUMPS

1. They eliminate electric motors in hazardous work areas.
2. Since they pump only on demand, electrical controls and circulating or by-pass systems are not required.
3. Flow rate is infinitely adjustable from zero to maximum capacity.
4. Maintenance is both minimal and convenient in abrasive materials such as liquid tripoli, abrasive slurries, and coatings containing sand, perlite, etc.
5. They have adequate power to deliver through long pipelines any material that will flow to or can be forced to the pump inlet.
6. They can operate partially primed or dry without damage to the system.
7. They are versatile. The pump can be immersed in the material, plumbed vertically into standard tank pipe outlets, or mounted on a portable dolly or on a wall with flexible hose connecting to tank or barrels.
8. All "Rocket" and "Royal" air motor pumps have the Grover exclusive exhaust muffler as standard equipment.

### LOW-VOLUME 2" STEM TRANSFER PUMPS

This series of pumps with ratios from 1:1 to 25:1 and capacities up to 7 gpm is designed to be used with either open or closed drums or for wall or portable-dolly mounting. Available in carbon steel construction or all wettable parts made of stainless steel and using appropriate piston materials, including Teflon, Buna N, or leather, they are recommended for abrasives, acids, adhesives, cleaning compounds, dyes, inks, insecticides, lubricants, paints, pharmaceuticals, resins, soaps, solvents and waxes. Maintenance is simple and inexpensive. This group includes light-duty models as well as rugged pumps with abusive application capabilities. Also offered is a limited group of pumps with wetted parts of carbon steel, stainless steel cylinders and appropriate piston materials as stated above.

### INDUSTRY PROVEN SINCE 1925

Grover reliable pump performance comes from over 50 years experience in pump design for handling difficult materials. Exclusive long, slow pump stroke action pushes rather than pounds material through lines. All pumps are double action and pump equally on both strokes to assure a constant material flow. Air driven pumps stall out against pressure; therefore, permit flow control from zero to maximum capacity. Grover pump stems give extra large material passage space to reduce flow restriction. Large valves eliminate clogging by even very fibrous materials. Grover pumps offer a combination of power, efficiency, volume and low maintenance in both difficult and routine applications. Most pumps include Grover's exclusive wet-cup design.

### HIGH-VOLUME 3" AND 4" STEM TRANSFER PUMPS

This series consists of pumps with capacities to 50 gpm and ratios from 2:1 to 14:1. These pumps are recommended for difficult applications as well as for more routine uses in which their combined capacity and pressure and low maintenance characteristics are advantageous. They are becoming increasingly popular in chemical processing applications because they pump only on demand, they are versatile, and maintenance is inexpensive even in abrasive slurries. While these pumps are usually plumbed into conventional piping systems or mounted on portable dollies for versatility, the stem may be immersed in material tanks. All models are available with carbon steel construction or all wettable parts made of stainless steel and using appropriate piston materials, including Teflon, Buna-N, or leather. Also offered is a limited group of pumps with wetted parts of carbon steel, stainless steel cylinders and appropriate piston materials as stated above.

### SUPPLY PUMPS

Grover pumps are widely used to supply a broad range of materials to other equipment in manufacturing operations—typified by the following: (1) Lacquers, inks, adhesives and other coatings to reverse roll coaters and other coating machinery. (2) Inks and adhesives to fountains on printing and labeling machinery. (3) Adhesives to spray, extrusion and other application devices. (4) Inks, paints, etc. to various types of mills—sand, shot, ball. (5) Reactive resins to proportioning equipment. (6) Many materials to automated filling machines. (7) Plastisols to dip tanks. (8) Clay slips to mold drops lines in pottery plants and to filter presses for manufacture of fine china. In applications of this type, an air regulator is used to control the discharge rate of the pump in any quantity from a few ounces per minute to the maximum capacity of the pump. Moreover, since they pump only on demand, delivery can be started and stopped by opening or closing a valve at the point of delivery. Our wet-packing design makes Grover pumps ideally suitable for air-hardening materials.

# TRANSFER AND SUPPLY SELECTION GUIDE FOR LOW-PRESSURE PUMPS (1:1 TO 25:1 RATIO)



## MATCH THE CORRECT GROVER TRANSFER PUMP TO THE RIGHT APPLICATION

PUMP SERIES	RATIO	MAX. DELIVERY	MAX. FLUID PRESSURE	DESCRIPTION	MATERIALS
S2-P1 S2-P2 R2-B2 R3-B2 R30-B2 R30X-B2	1:1 2:1 2:1 4:1 4:1 4:1	5 GPM 2 GPM 2.7 GPM 2.7 GPM 2.7 GPM 3.3 GPM	100 psi 200 psi 200 psi 400 psi 400 psi 400 psi	Portable, lightweight pumps ideal for transferring and dispensing from containers where medium volume and low pressure requirements exist.	Light viscosity fluids such as solvents, lubricants, polish, oil, thinner, mild acids, light adhesives, paints, strippers, liquid waxes, inks, coolants, and chemicals, 0 to 2000 CPS normal use.
532T R40-B2 942T R50-B2 952T R70-B2	4:1 7:1 7:1 11:1 11:1 25:1	2.7 GPM 3.3 GPM* 6.6 GPM 3.3 GPM* 6.6 GPM 3.3 GPM*	400 psi 700 psi 700 psi 1100 psi 1100 psi 2500 psi	These pumps may be used with heavier viscosity fluids or for longer supply lines. Pumps are available for closed and open top containers as well as wall, cart or tank mounting.	Light to medium viscosity fluids such as water, cleaning agents, paints, inks, syrups, adhesives, chemicals and lacquers. 0 to 30,000 CPS normal use.
R40-3 R50-3 R70-3 973T R80-3 983T	3:1 5:1 11:1 11:1 14:1 14:1	8.5 GPM* 8.5 GPM* 8.5 GPM* 12 GPM 8.5 GPM* 12 GPM	300 psi 500 psi 1100 psi 1100 psi 1400 psi 1400 psi	These pumps may be used for light to heavier viscosity fluids where more volume is required. Normally pumps are wall, cart or tank mounted. Pumps can supply long supply line to multiple outlets.	Medium to heavy viscosity fluids such as paints, inks, syrups, adhesives, chemicals, slurries, creams, paste, plastisols, and oils. 0 to 100,000 CPS normal use.
R40-4 R50-4 R70-4 R80-4 984 986T	2:1 3:1 7:1 9:1 9:1 4:1	15 GPM* 15 GPM* 15 GPM* 15 GPM* 20 GPM 40 GPM	200 psi 300 psi 700 psi 900 psi 900 psi 400 psi	These pumps may be used for light to heavy viscosity fluids where high volume is required. Large pump internal passages also allow pumping heavy, fibrous materials. Pumps are adaptable to wall, cart or tank mounting.	

### NOTES:

- Rated pump delivery (GPM) is based on continuous operation of pump at a speed of approximately 60 cycles per minute with free flow conditions.
- Maximum fluid pressure is based on 100 psi air input to air motor.
- Pumps are always rated at maximum pressure obtained at zero fluid output, since pressure changes with outlet volume demands. As pump outlet volume increases, the available pressure decreases. See pump curves.
- Viscosity of fluid and selection of transfer pump depends on temperature of fluid, distance fluid is to be pumped, flowability of fluid, fluid volume required, pump configuration for fluid container, and compatibility of wetted pump parts to fluid.
- Pump series 986T is capable of intermittent transfer at rate of 50 GPM in free flow conditions.
- PSI discharge pressure x 2.31 = Head Ft. (Approx.)

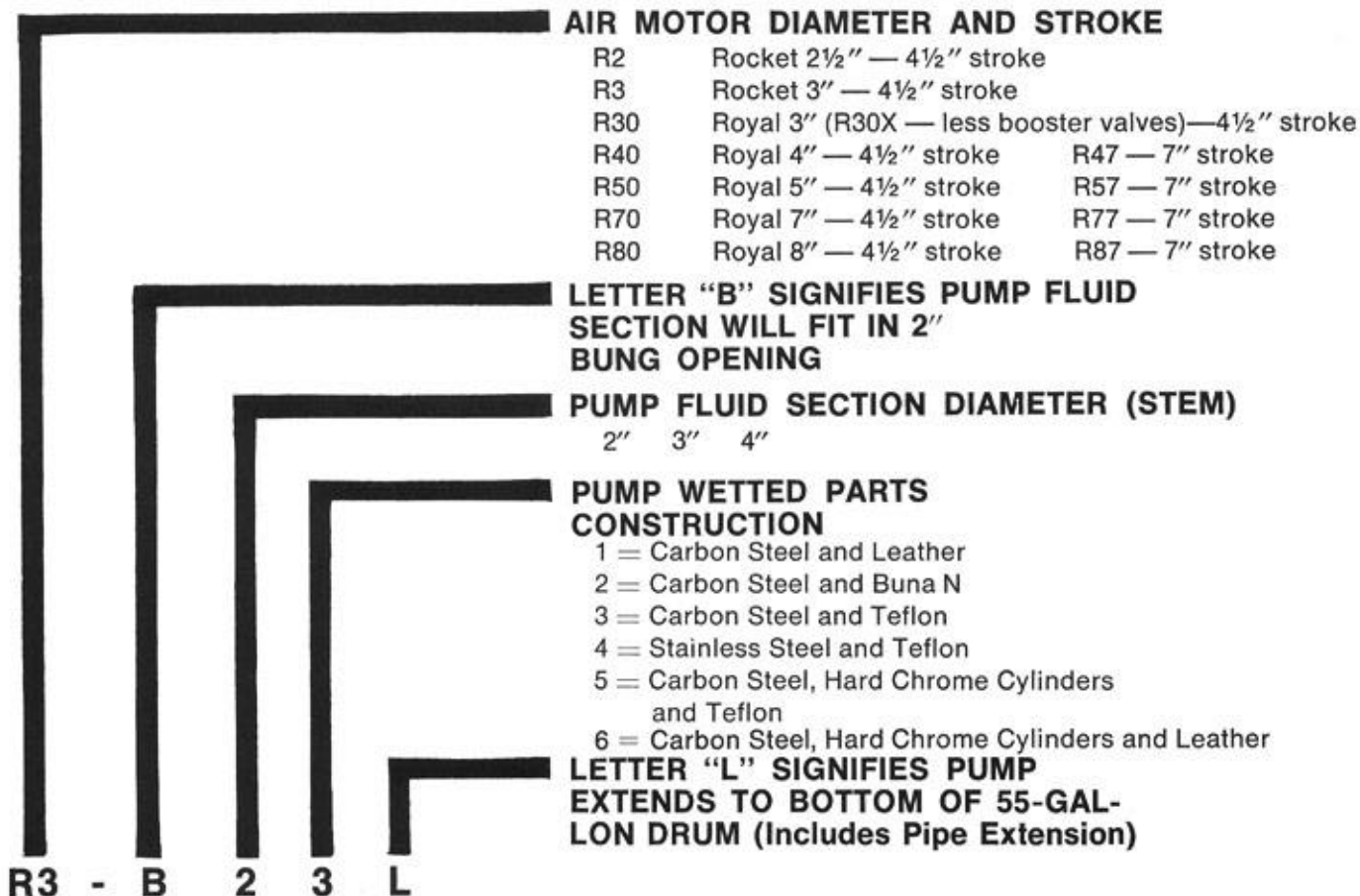
\*For 7" Stroke Pumps (R47, R57, R77, R87)

- B2 series maximum delivery is 5.0 GPM
- 3 series maximum delivery is 13.5 GPM
- 4 series maximum delivery is 23.0 GPM

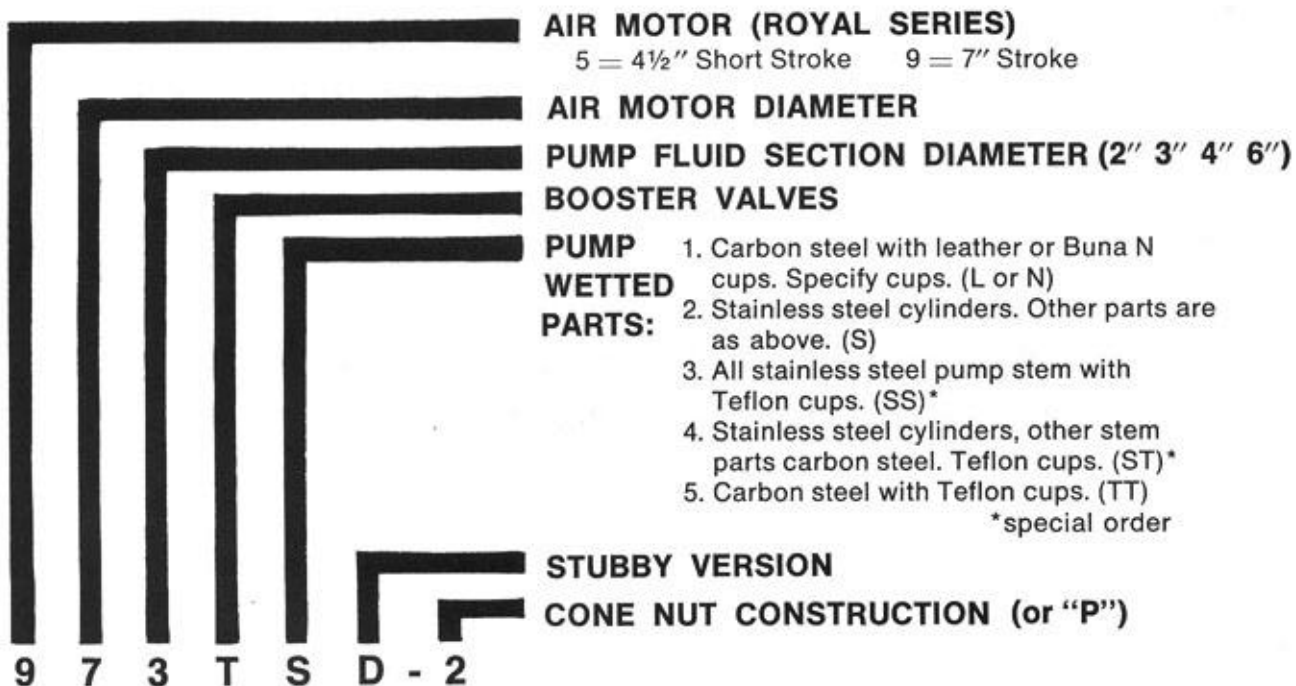


## LOW PRESSURE PUMP NUMBERING SYSTEM

### 7" AND 4½" STROKE DIVORCED PUMPS (WET-CUP)

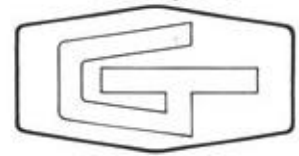


### SPECIALTY PUMPS



**AIR OPERATED PUMPS**

... Light viscosity  
fluid transfer and  
supply pumps



2" Bung

**1:1 AND 2:1 "STROKER" PUMPS**

Portable, lightweight units capable of providing a high-volume transfer of light viscosity fluids. Available with Teflon or leather packings for transfer of a variety of materials. Pumps speed-up, slow-down or stall in response to system demands. Pump is easily controlled with addition of a dispensing valve. Pumps have 2-inch NPT (M) adapter for mounting to 2-inch bung opening. Stubby, siphon supply models (normally wall mounted) are for use with any size containers. Air motor includes muffler for quiet operation.

PUMP NO. S2-P11 (1:1 RATIO) stubby pump. Wetted parts carbon steel and leather.

PUMP NO. S2-P11L (1:1 RATIO) drum length pump. Wetted parts carbon steel and leather.

PUMP NO. S2-P13 (1:1 RATIO) stubby pump. Wetted parts carbon steel and Teflon.

PUMP NO. S2-P13L (1:1 RATIO) drum length pump. Wetted parts carbon steel and Teflon.

PUMP NO. S2-P14 (1:1 RATIO) stubby pump. Wetted parts stainless steel and Teflon.

PUMP NO. S2-P14L (1:1 RATIO) drum length pump. Wetted parts stainless steel and Teflon.

PUMP NO. S2-P21 (2:1 RATIO) stubby pump. Wetted parts carbon steel and leather.

PUMP NO. S2-P21L (2:1 RATIO) drum length pump. Wetted parts carbon steel and leather.

PUMP NO. S2-P23 (2:1 RATIO) stubby pump. Wetted parts carbon steel and Teflon.

PUMP NO. S2-P23L (2:1 RATIO) drum length pump. Wetted parts carbon steel and Teflon.

PUMP NO. S2-P24 (2:1 RATIO) stubby pump. Wetted parts stainless steel and Teflon.

PUMP NO. S2-P24L (2:1 RATIO) drum length pump. Wetted parts stainless steel and Teflon.

**PUMP PERFORMANCE AND SPECIFICATIONS**

MODEL NUMBER	RATIO	DELIVERY (Cont.)	DELIVERY (Int.)	CYCLES PER GAL.	AIR INLET PIPE SIZE	LENGTH STD. MODEL	MATERIAL INLET PIPE SIZE	MATERIAL OUTLET PIPE SIZE	OPTIONAL AIR REGULATOR AND GAUGE	OPTIONAL DRUM BRACKET	OPTIONAL WALL BRACKET
S2-P11/13/14	1:1	5	12	20	1/4" NPT(F)	34 1/2"	3/4" NPT(F)	1/2" NPT(F)	367BP	8354A	8140A
S2-P11L/13L/14L	1:1	5	12	20	1/4" NPT(F)	56 1/2"	3/4" NPT(F)	1/2" NPT(F)	367BP	8354A	8140A
S2-P21/23/24	2:1	2	5	50	1/4" NPT(F)	34 1/2"	1/2" NPT(F)	1/2" NPT(F)	367BP	8354A	8140A
S2-P21L/23L/24L	2:1	2	5	50	1/4" NPT(F)	56 1/2"	1/2" NPT(F)	1/2" NPT(F)	367BP	8354A	8140A

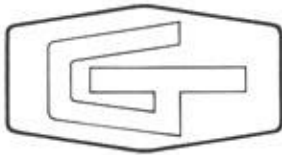
**GROVER OIL DISPENSOMATIC PUMP**

The Grover Dispensomatic is a complete and efficient dispensing system for oils, industrial fluids and solvents. No installation is required. Merely screw it into the drum bung, connect an air hose, adjust the air regulator to the desired flow and Dispensomatic is ready to use.

**MODEL NO. 7260K (1:1 RATIO)** includes 2052KZ Pump, 7800 Dispenser Control, 367BP Air Regulator and Gauge and 918 Air Coupler.



7260K



## AIR OPERATED PUMPS

... Light viscosity  
fluid transfer and  
supply pumps

2" Bung • 2.7 GPM • 200 PSI

### 2:1 "ROCKET" PUMPS (2½" AIR MOTOR)

Divorced pump design protects air motor against fouling and contamination from fluid being pumped. Pumps may be used for supply or transfer from closed or open-head 55-gallon drums. Pail length models are available for direct supply from 5, 10, 16 and 30-gallon containers. Grover pumps have exclusive wet-cup design.

Pumps speed-up, slow-down or stall in response to system demand. No energy consumption or loss of pressure and no wear when pump is stalled. Pumps include 2½" air motor with muffler for quiet operation.

Pumps are ideal for transfer and dispensing of water, anti-freeze, solvents, paints, chemicals and light adhesives. Pumps material from original containers. Pumps have 2" NPT (M) adapter for mounting to 2" bung opening.

- \* **PUMP NO. R2-B21L-A (DRUM LENGTH)** shipped as pump only. Wetted parts carbon steel and leather.
- \* **PUMP NO. R2-B22L-A (DRUM LENGTH)** shipped as pump only. Wetted parts carbon steel and Buna N.
- \* **PUMP NO. R2-B23L-A (DRUM LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.
- \* **PUMP NO. R2-B24L-A (DRUM LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.
- PUMP NO. R2-B21-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and leather.
- PUMP NO. R2-B22-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Buna N.
- PUMP NO. R2-B23-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.
- PUMP NO. R2-B24-A (PAIL LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.
- PUMP NO. R2-B25-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.
- PUMP NO. R2-B26-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and leather.

\*Pumps are stubby and include extension pipe for 55-gallon use.



R2-B21L-A  
R2-B22L-A  
R2-B23L-A  
R2-B24L-A

R2-B21-A  
R2-B22-A  
R2-B23-A  
R2-B24-A  
R2-B25-A  
R2-B26-A

2:1 ROCKET PUMP  
SPECIFICATIONS

AIR MOTOR DIAMETER	2½"
LENGTH DRUM MODEL	53"
LENGTH PAIL MODEL	32"
AIR INLET	1/4" NPT(F)
FLUID INLET	1" NPT(F)
FLUID OUTLET	3/4" NPT(F)
OPTIONAL AIR REGULATOR AND GAUGE	367P 367BP
OPTIONAL DRUM BRACKET	8354A
OPTIONAL WALL BRACKET	8140A

2:1 ROCKET PUMP PERFORMANCE

CY- CLES PER GAL.	AIR REQUIRED (CFM) FOR EA. GAL. DELIVERED			STROKE	MAXIMUM FLUID DEL. IN GPM	
	60 PSI	80 PSI	100 PSI			
					CONTIN- GIOUS	INTERMIT- TENT
22	1.7	2.2	2.6	4½"	2.7	4.5

NOTE: "Rocket" pump air motors require 50 psi minimum air pressure for air motor operation.



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

**2" Bung • 2.7 GPM • 400 PSI**

## 4:1 "ROCKET" PUMPS (3" AIR MOTOR)

Divorced pump design protects air motor against fouling and contamination from fluid being pumped. Units include 3" air motor with muffler for quiet operation.

Grover pumps efficiently supply or transfer a variety of materials such as quick drying coatings, adhesives, viscous paints and other heavy process fluids. Stainless steel models with Teflon cups supply or transfer a variety of light to medium viscosity corrosive fluids. Grover's exclusive wet-cup design is featured in pumps. Model R3-B25 ideal for high solids paints. Pump has honed, hard chrome cylinders.

Immersed supply models mount on 55-gallon closed-top, bung type drums. Can also be mounted on open-end drums or supply tanks, using drum or wall bracket. Siphon-supply, pail length models have threaded foot-valve for installing suction hoses for use with any size container. Pumps have 2" NPT (M) adapter for mounting to 2" bung opening.

\***PUMP NO. R3-B21L-A (DRUM LENGTH)** shipped as pump only. Wetted parts carbon steel and leather.

\***PUMP NO. R3-B22L-A (DRUM LENGTH)** shipped as pump only. Wetted parts carbon steel and Buna N.

\***PUMP NO. R3-B23L-A (DRUM LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

\***PUMP NO. R3-B24L-A (DRUM LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.

**PUMP NO. R3-B21-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and leather.

**PUMP NO. R3-B22-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Buna N.

**PUMP NO. R3-B23-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

**PUMP NO. R3-B24-A (PAIL LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.

**PUMP NO. R3-B25-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R3-B26-A (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and leather.

\*Pumps are stubby and include extension pipe for 55-gallon use.



R3-B21L-A  
R3-B22L-A  
R3-B23L-A  
R3-B24L-A

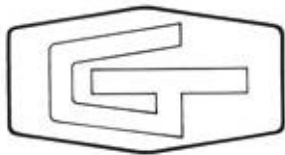
R3-B21-A  
R3-B22-A  
R3-B23-A  
R3-B24-A  
R3-B25-A  
R3-B26-A

### 4:1 ROCKET PUMP SPECIFICATIONS

AIR MOTOR DIAMETER	3"
LENGTH DRUM MODEL	53"
LENGTH PAIL MODEL	32"
AIR INLET	1/4" NPT(F)
FLUID INLET	1" NPT(F)
FLUID OUTLET	3/4" NPT(F)
OPTIONAL AIR REGULATOR AND GAUGE	367P 367BP
OPTIONAL DRUM BRACKET	8354A
OPTIONAL WALL BRACKET	8140A

4:1 ROCKET PUMP PERFORMANCE						
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
22	3.4	4.0	5.0	4½"	2.7	4.5

NOTE: "Rocket" pump air motors require 40 psi minimum air pressure for air motor operation.



## AIR OPERATED PUMPS

... Medium viscosity fluid transfer and supply pumps

2" Bung • 3.3 GPM • 400 PSI

### 4:1 "ROYAL 30" PUMPS (3" AIR MOTOR) HEAVY DUTY INDUSTRIAL AIR MOTOR PUMPS WITH GROVER AIR BOOSTER VALVES\*

Divorced pump models with 3" booster valve assisted air motor for powered medium viscosity fluid applications. Air motor booster valves include mufflers for quiet operation.

Air operated pumps supply or transfer a variety of materials such as quick drying coatings, adhesives, viscous paints and other heavy process fluids. Stainless steel models with Teflon cups supply or transfer a variety of light to medium viscosity corrosive fluids. Grover's exclusive wet-cup design is featured in pumps.

Pumps can be mounted on 5-gallon bung type pails or can also mount on 55-gallon bung type drums by adding siphon tube. Pumps have threaded foot-valve for installing siphon hoses. Use drum bracket for open-top drums. Pumps have 2" NPT (M) adapter for mounting to 2" bung openings.

**PUMP NO. R30-B21 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and leather.

**PUMP NO. R30-B22 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Buna N.

**PUMP NO. R30-B23 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

**PUMP NO. R30-B24 (PAIL LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.

**PUMP NO. R30-B25 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R30-B26 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and leather.

\*Above "Royal 30" pumps may be ordered with air motors LESS booster valves. Air exhaust includes muffler.

Order: R30X-B21  
R30X-B22  
R30X-B23  
R30X-B24  
R30X-B25  
R30X-B26

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
18	3.4	4.0	5.0	4½"	3.3	5.5



R30-B21  
R30-B22  
R30-B23  
R30-B24  
R30-B25  
R30-B26

#### 4:1 ROYAL 30 PUMP SPECIFICATIONS

AIR MOTOR DIAMETER	3"
LENGTH PAIL MODEL	42"
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	2



# AIR OPERATED PUMPS

... Medium to high  
viscosity fluid  
transfer and  
supply pumps



2" Bung • 3.3 GPM • 700 PSI / 5 GPM • 700 PSI

7:1 "ROYAL 40" AND "ROYAL 47"  
PUMPS (4" AIR MOTOR)

HEAVY DUTY INDUSTRIAL  
AIR MOTOR PUMPS WITH  
GROVER AIR BOOSTER VALVES

Divorced pump models with 4" booster valve assisted air motor for medium to high viscosity fluid applications or long supply lines for light to medium viscosity fluids. Air motor booster valves include mufflers. Pumps feature Grover's exclusive wet-cup design.

Pumps can be mounted on 5-gallon bung type pails or can also mount on 55-gallon bung type drums by adding siphon tube. Pumps have threaded foot-valve for installing siphon hoses. Use drum bracket for open-top drums. Pumps have 2" NPT (M) adapter for mounting to 2" bung opening.

**PUMP NO. R40-B21 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and leather.

**PUMP NO. R40-B22 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Buna N.

**PUMP NO. R40-B23 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

**PUMP NO. R40-B23 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

**PUMP NO. R40-B24 (PAIL LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.

**PUMP NO. R40-B25 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R40-B26 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. B47-B21 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and leather.

**PUMP NO. R47-B22 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Buna N.

**PUMP NO. R47-B23 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel and Teflon.

**PUMP NO. R47-B24 (PAIL LENGTH)** shipped as pump only. Wetted parts stainless steel and Teflon.

**PUMP NO. R47-B25 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R47-B26 (PAIL LENGTH)** shipped as pump only. Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R40-B21  
R40-B22  
R40-B23  
R40-B24  
R40-B25  
R40-B26

7:1 ROYAL PUMP  
SPECIFICATIONS

AIR MOTOR DIAMETER	4"
LENGTH R40 LENGTH R47	38-5/16" 47-7/16"
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	2

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
R40-B2	18	5.0	6.0	7.0	4 1/2"	3.3	5.5
R47-B2	12	5.0	6.0	7.0	7"	5	8.3



## AIR OPERATED PUMPS

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

**8.5 GPM • 300 PSI / 13.3 GPM • 300 PSI**

### 3:1 "ROYAL 40" AND "ROYAL 47" PUMPS (4" AIR MOTOR)

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

Divorced pump models with 4" 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. R40-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R40-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R40-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R40-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R40-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R40-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R47-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R47-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R47-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R47-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R47-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R47-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R40-31  
R40-32  
R40-33  
R40-34  
R40-35  
R40-36

#### 3:1 ROYAL PUMP SPECIFICATIONS

AIR MOTOR DIAMETER	4"
LENGTH R40 LENGTH R47	40-7/8" 49-5/8"
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	2

#### 3:1 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
R40-3	7	2.4	3.0	3.6	4 1/2"	8.5	14.2
R47-3	4.5	2.4	3.0	3.6	7"	13.3	22.2

**AIR OPERATED PUMPS**

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



**15 GPM • 200 PSI / 23 GPM • 200 PSI**

**2:1 "ROYAL 40" AND "ROYAL 47"  
PUMPS (4" AIR MOTOR)**

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

Divorced pump models with 4" 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. R40-41 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R40-42 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R40-43 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R40-44 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R40-45 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R40-46 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R47-41 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R47-42 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R47-43 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R47-44 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R47-45 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R47-46 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R40-41  
R40-42  
R40-43  
R40-44  
R40-45  
R40-46

**2:1 ROYAL PUMP  
SPECIFICATIONS**

AIR MOTOR DIAMETER	4"
LENGTH R40 LENGTH R47	43-7/8" 52-5/8"
AIR INLET	1/2" NPT(M)
FLUID INLET	2" NPT (M)
FLUID OUTLET	1 1/4" NPT (F) (SWIVEL)
OPTIONAL AIR REGULATOR AND GAUGE	368P
OPTIONAL DRUM BRACKET	8196A
OPTIONAL WALL BRACKET	8123A
BOOSTER VALVES	2

**2:1 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
R40-4	4	1.7	2.0	2.4	4 1/2"	15	25
R47-4	2.5	1.7	2.0	2.4	7"	23	39



## AIR OPERATED PUMPS

... High viscosity  
fluid transfer  
and supply pumps

2" Bung • 3.3 GPM • 1100 PSI / 5 GPM • 1100 PSI

11:1 "ROYAL 50" AND "ROYAL 57"  
PUMPS (5" AIR MOTOR)

HEAVY DUTY INDUSTRIAL  
AIR MOTOR PUMPS WITH  
GROVER AIR BOOSTER VALVES

Divorced pump models with 5" booster valve assisted air motor for high viscosity fluid applications or long supply lines for medium to high viscosity fluids. Air motor booster valves include mufflers. Pumps feature Grover's exclusive wet-cup design.

Pumps can be mounted on 5-gallon bung type pails or can also mount on 55-gallon bung type drums by adding siphon tube. Pumps have threaded foot-valve for installing siphon hoses. Use drum bracket for open-top drums. Pumps have 2" NPT (M) adapter for mounting to 2" bung opening.

**PUMP NO. R50-B21 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R50-B22 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R50-B23 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R50-B24 (PAIL LENGTH)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R50-B25 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R50-B26 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R57-B21 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R57-B22 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R57-B23 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R57-B24 (PAIL LENGTH)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R57-B25 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R57-B26 (PAIL LENGTH)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R50-B21  
R50-B22  
R50-B23  
R50-B24  
R50-B25  
R50-B26

11:1 ROYAL PUMP  
SPECIFICATIONS

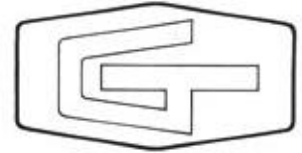
AIR MOTOR DIAMETER	5"
LENGTH R50 LENGTH R57	38-5/16" 47-1/16"
AIR INLET	1/2" NPT(M)
FLUID INLET	1" NPT(F)
FLUID OUTLET	3/4" NPT(F) (SWIVEL)
OPTIONAL AIR REGULATOR AND GAUGE	368P
OPTIONAL DRUM BRACKET	8196A
OPTIONAL WALL BRACKET	8123A
BOOSTER VALVES	2

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
R50-B2	18	8.0	9.0	11.0	4 1/2"	3.3	5.5
R57-B2	12	8.0	9.0	11.0	7"	5	8.3

# AIR OPERATED PUMPS

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



**8.5 GPM • 500 PSI / 13.3 GPM • 500 PSI**

**5:1 "ROYAL 50" AND "ROYAL 57"  
PUMPS (5" AIR MOTOR)**

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

Divorced pump models with 5" 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. R50-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R50-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R50-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R50-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R50-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R50-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R57-31 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R57-32 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R57-33 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R57-34 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R57-35 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R57-36 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R50-31  
R50-32  
R50-33  
R50-34  
R50-35  
R50-36

### 5:1 ROYAL PUMP SPECIFICATIONS

AIR MOTOR DIAMETER	5"
LENGTH R50 LENGTH R57	40-7/8" 49-5/8"
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	2

### 5:1 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
R50-3	7	4.4	5.0	6.1	4 1/2"	8.5	14.2
R57-3	4.5	4.4	5.0	6.1	7"	13.3	22.2



## AIR OPERATED PUMPS

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

15 GMP • 300 PSI / 23 GPM • 300 PSI

### 3:1 "ROYAL 50" AND "ROYAL 57" PUMPS (5" AIR MOTOR)

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

Divorced pump models with 5" 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. R50-41 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R50-42 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R50-43 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R50-44 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R50-45 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R50-46 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.

**PUMP NO. R57-41 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and leather.

**PUMP NO. R57-42 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Buna N.

**PUMP NO. R57-43 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel and Teflon.

**PUMP NO. R57-44 (STUBBY)** shipped as pump only.  
Wetted parts stainless steel and Teflon.

**PUMP NO. R57-45 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and Teflon.

**PUMP NO. R57-46 (STUBBY)** shipped as pump only.  
Wetted parts carbon steel with honed, hard chrome cylinders and leather.



R50-41  
R50-42  
R50-43  
R50-44  
R50-45  
R50-46

3:1 ROYAL PUMP  
SPECIFICATIONS

AIR MOTOR DIAMETER	5"
LENGTH R50 LENGTH R57	43-7/8" 52-5/8"
AIR INLET	1/2" NPT(M)
FLUID INLET	2" NPT(M)
FLUID OUTLET	1 1/4" NPT(F) (SWIVEL)
OPTIONAL AIR REGULATOR AND GAUGE	368P
OPTIONAL DRUM BRACKET	8196A
OPTIONAL WALL BRACKET	8123A
BOOSTER VALVES	2

3:1 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
R50-4	4	2.7	3.0	3.7	4 1/2"	15	25
R57-4	2.6	2.7	3.0	3.7	7"	23	39