

AIR OPERATED PUMPS ... Transfer of abrasive,

with Riser Tube and Pulsation Chamber

... Transfer of abrasive, viscous, fibrous, or solid filled fluids

All models listed include riser tube and pulsation chamber. Pumps are divorced and include booster valve assisted air motor with mufflers. Most models feature long stroke for maximum fluid delivery and performance. All drum length models require No. 8355A drum bracket for use in open-top 55-gallon

drums. Stubby models include threaded foot-valve with both 1½" NPTF and 2" NPTM connection for siphon hose or pipe plumbing. Stubby models may be mounted on a portable dolly, wall bracket, or vertically plumbed directly into storage tank or mixing vat outlets.

4:1 PUMPS • 3" AIR MOTOR • 2" STEM
PUMP NO. 532TS (DRUM LENGTH) shipped as pump only with
riser tube and pulsation chamber. Wetted parts carbon steel
with stainless steel cylinders. Specify cups leather or Buna N.
PUMP NO. 532TSD (STUBBY) same as above except shortened
stem with 1½" NPTF and 2" NPTM threaded foot-valve.

7:1 PUMPS • 4" AIR MOTOR • 2" STEM
PUMP NO. 942TS (DRUM LENGTH) shipped as pump only with
riser tube and pulsation chamber. Wetted parts carbon steel
with stainless steel cylinders. Specify cups leather or Buna N.
PUMP NO. 942TSD (STUBBY) same as above except shortened
stem with 1½" NPTF and 2" NPTM threaded foot-valve.

11:1 PUMPS • 5" AIR MOTOR • 2" STEM
PUMP NO. 952TS (DRUM LENGTH) shipped as pump only with
riser tube and pulsation chamber. Wetted parts carbon steel
with stainless steel cylinders. Specify cups leather or Buna N.
PUMP NO. 952TS-2 (DRUM LENGTH) shipped as pump only
with riser tube and pulsation chamber. Wetted parts carbon
steel with stainless steel cylinders. Specify cups leather
or Buna N. Pump has cone nut construction for pumping
cementitious or fibrous materials.

PUMP NO. 952TSD (STUBBY) same as 952TS except shortened stem with 1½" NPTF and 2" NPTM threaded foot-valve.

11:1 PUMPS • 7" AIR MOTOR • 3" STEM
PUMP NO. 973TS (DRUM LENGTH) shipped as pump only with
riser tube and pulsation chamber. Wetted parts carbon steel
with stainless steel cylinders. Specify cups leather or Buna N.
PUMP NO. 973TSD (STUBBY) same as above except shortened
stem with 1½" NPTF and 2" NPTM threaded foot-valve.

14:1 PUMPS • 8" AIR.MOTOR • 3" STEM
PUMP NO. 983TS (DRUM LENGTH) shipped as pump only with
riser tube and pulsation chamber. Wetted parts carbon steel
with stainless steel cylinders. Specify cups leather or Buna N.
PUMP NO. 983TSD (STUBBY) same as above except shortened
stem with 1½" NPTF and 2" NPTM threaded foot-valve.



				Р	UMP PER	RFORMA	NCE AN	D SPEC	IFICATIO	NS				
PUMP SERIES NUMBER	STEM DIA.	AIR MOTOR DIAMETER	FLUID	CYCLES R GALLON	(E	AIR REQUIRED CFM) FOR EACH GAL ELIVERE	R 	STROKE	FLUID OUTLET (SWIVEL)	OPTIONAL AIR REG. AND GAUGE	MAX. CONT. FLUID DEL.	OPTIONAL WALL BRACKET	BOOSTER	OPTIONAL DRUM BRACKET
	S	ΑO		PE	60 PSI	80 PSI	100 PSI			0,4	Σu			0 4
532TS	2"	3"	4:1	22	3.4	4.0	5.0	4½"	%"F	368C	3	8345	2	8355A
942TS	2"	4"	7:1	9	5.0	6.0	7.0	7"	%"F	368C	7	8345	2	8355A
952TS	2"	5"	11:1	9	8.0	9.0	11.0	7"	%"F	368C	7	8345	2	8355A
973TS	3"	7"	11:1	5	8.0	10.0	12.0	7"	1"F	368C	12	7945B	4	8355A
983TS	3"	8"	14:1	5	10.0	13.0	16.0	7"	1"F	368C	12	7945B	4	8355A

AIR OPERATED PUMPS ... Transfer of abrasive,

. . . Transfer of abrasive, viscous, fibrous, or solid filled fluids



SPECIAL APPLICATION PUMPS

PUMP NO. 984TSD (STUBBY) 9:1 ratio pump shipped as pump only. Wetted parts carbon steel with stainless steel cylinders. Specify cups leather or Buna N.

PUMP NO. 984P (STUBBY) 9:1 ratio pump same as above but includes cone nut construction for pumping cementitious and fibrous materials.

PUMP NO. 973TSD-2 (STUBBY) 11:1 ratio pump shipped as pump only. Wetted parts carbon steel with stainless steel cylinders. Specify cups leather or Buna N. Pump has cone nut construction for pumping cementitious or fibrous materials.

PUMP NO. 552TSA (DRUM LENGTH) 11:1 ratio pump shipped as pump only. Primarily used for grout materials. Short (4½") stroke air motor. Wetted parts carbon steel with stainless steel cylinders, leather cups.

PUMP NO. 552TSA-2 (DRUM LENGTH) same as 552TSA except pump has cone nut construction.

PUMP NO. 574TSA (DRUM LENGTH) 7:1 ratio pump shipped as pump only. Primarily used for grout materials. Short (4½") stroke air motor. Wetted parts carbon steel with stainless steel cylinders, leather cups.

PUMP NO. 986TD (STUBBY) 4:1 ratio pump shipped as pump only. Wetted parts carbon steel. Specify cups leather or Buna N. High volume pump.

PUMP NO. 986TTD (STUBBY) 4:1 ratio pump shipped as pump only. Wetted parts carbon steel and Teflon. High volume pump.

NOTE: Above pump air motors include mufflers for quiet operation.



						PUMF	PER	FOR	MANCE AND	SPECIF	ICATIONS					
PUMP MODEL NUMBER	STEM DIA.	AIR MOTOR DIAMETER	FLUID	CYCLES R GALLON	FOF	AIR REQUIRED (CFM) FOR EA. GAL. DELIVERED		STROKE	FLUID	FLUID	AIR	OPTIONAL AIR REG. AND GAUGE	MAX. CONT. FLUID DEL.	OPTIONAL WALL BRACKET	BOOSTER	OPTIONAL DRUM BRACKET
	٧,	₹0		PE	60 PSI	80 PSI	100 PSI			22.70		0 A	Σu	0 4	_	0 -
984TSD	4"	8"	9:1	3	6.0	7.8	9.6	7"	2"NPT(M)	1½"M	1/2"NPT(M)	368C	20	7945C	4	N/A
984P	4"	8"	9:1	3	6.0	7.8	9.6	7"	2"NPT(M)	1½"M	1/2"NPT(M)	368C	20	7945C	4	N/A
973TSD-2	3"	7"	11:1	5	8.0	10.0	12.0	7"	2"NPT(M)	1"F	1/2"NPT(M)	368C	12	7945B	4	8355A
552TSA	2"	5"	11:1	14	8.0	9.0	11.0	41/2"	2"NPT(M)	¾"F	½"NPT(M)	368C	3	8345	2	8355A
574TSA	4"	7"	7:1	5	5.0	6.3	7.7	41/2"	2"NPT(M)	1½"M	½"NPT(M)	368C	8	7945C	4	N/A
986T	6"	8"	4:1	1½"	3.0	3.9	4.8	7"	3"NPT(F)	2"M	½"NPT(M)	368C	40*	N/A	4	N/A

^{*986}T series pumps capable of 50 GPM intermittent duty operation.

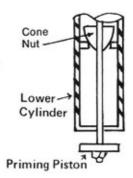


AIR OPERATED PUMPS ... Viscous Materials adhesives caulking materials

Transfer and Extrusion Priming Piston Pumps

GROVER PRIMING PISTON PUMPS WITH WET-CUP

Grover priming piston pumps are designed for use in transferring or applying highly viscous seam sealers, adhesives and caulking materials. Priming piston pump intake assembly assures pump priming with heavy materials. Pumps may be used with accessory powered elevators and follower plates. Air motors include mufflers for quiet operation.



PUMP NO. 5907A (STUBBY) 11:1 ratio pump shipped as pump only. Wetted parts carbon steel with stainless steel cylinders, Teflon cups.

PUMP NO. 5913A (DRUM LENGTH) 11:1 ratio pump shipped as pump only. Wetted parts carbon steel with stainless steel cylinders, Teflon cups.

PUMP NO. 5912A (STUBBY) 25:1 ratio pump shipped as pump only. Wetted parts carbon steel with stainless steel cylinders, Teflon cups.

PUMP NO. 5914A (DRUM LENGTH) 25:1 ratio pump shipped as pump only. Wetted parts carbon steel with stainless steel cylinders, Teflon cups.

PUMP NO. 5983P (STUBBY) 14:1 ratio pump shipped as pump only. Wetted parts carbon steel with stainless steel cylinders, Teflon cups.

PUMP MODEL	CYCLES PER GALLON		ACH GAL	MAXIMUM MATERIAL DELIVERED	
	GALLON	60 PSI	80 PSI	100 PSI	(GPM)
5907A 5913A	20	8	9	11	3
5912A 5914A	20	15	19	23	3
5983P	10	10	13	16	6



See Section 5 For More Priming Piston Pump Information.

					PF	RIMING PIS	TON	PUMP S	SELECTION		
PRIMING PISTON PUMP MODEL	RATIO	AIR MOTOR DIA.	STEM DIA.	STROKE	OVER- ALL LENGTH	AIR INLET PIPE SIZE	MATERIAL OUTLET PIPE SIZE	OPTIONAL AIR REGULATOR AND GAUGE	TYPE FOOT ASSEMBLY MOUNTING	OPTIONAL DRUM BRACKET	OPTIONAL WALL BRACKET
5907A	11:1		2"	3¼"	47%"	%"NPT(M)	1"F	368P	TANK - OR FITS FOLLOWER PLATES	N/A	8345
5913A	11:1	5"	2"	3¼"	58''	%"NPT(M)	1"F	368P	DRUM FITS 55-GALLON DRUMS	8355A	8345
5912A	25:1	7"	2"	3¼"	47%"	%"NPT(M)	1"F	368P	TANK - OR FITS FOLLOWER PLATES	N/A	7945B
5914A	25:1	7"	2"	3%"	58"	%"NPT(M)	1"F	368P	DRUM - FITS 55-GALLON DRUMS	8355A	7945B
5983P	14:1	8"	3"	3¼"	60"	%"NPT(M)	1%"F	368P	TANK - OR FITS FOLLOWER PLATES	N/A	N/A

AIR OPERATED PUMPS

In-Line Models For Lubricant Type Fluids



In-line supply pumps for supply of gear lube, oils and other non-corrosive, non-abrasive products. All pumps are carbon steel, aluminum and have Buna N cups. All pumps are double action.

"Rocket" pumps are fitted with an adjustable bung adapter and a 34" telescoping suction tube that will automatically adjust to a 15, 30 or 55-gallon drum. The telescoping tube can be replaced with a rigid 34" drop tube to fit bulk tanks of various depths. "Royal" pumps have a 1" high volume extension tube. A simple foot valve replacement changes a drum pump to a stubby pump. All pumps include air motor muffler.

"ROCKET" PUMPS

7990 ROCKET OIL PUMP 3:1 ratio, Double Action, 21/2" Air Motor with Muffler, 2" Stem, 1983A Surge Chamber, 34" Telescoping Suction Tube, Bung Adapter, 918 Air Coupler and 60D Air Adapter. Flow: 7-8 gt./min.

8350 ROCKET OIL PUMP 4:1 ratio, Double Action, 3" Air Motor with Muffler, 2" Stem, 1983A Surge Chamber, 34" Telescoping Suction Tube, Bung Adapter, 918 Air Coupler and 60D Air Adapter. Flow: 11 qt./min.

7993 ROCKET STUB PUMP 3:1 ratio Double Action, 21/2" Air Motor with Muffler, 2" Stem, 1983A Surge Chamber, 2" NPT (m) foot valve, 918 Air Coupler, 60D Air Adapter. Flow: 7-8 qt./min.

8353 ROCKET STUB PUMP 4:1 ratio Double Action, 3" Air Motor with Muffler, 2" Stem, 1983A Surge Chamber, 2" NPT (m) foot valve, 918 Air Coupler, 60D Air Adapter. Flow: 11 qt./min.

HEAVY DUTY "ROYAL" PUMPS

8640 HEAVY DUTY OIL PUMP 7:1 ratio Double Action, 4" Industrial Air Motor with Booster Valves and Dual Mufflers, 2" Stem, 1983A Surge Chamber, 1" Extension Tube, Bung Adapter, 5000 Air Coupler, 54H Air Adapter, 368P Air Regulator and Gauge. Flow: 21 qt./min.

8650 HEAVY DUTY OIL PUMP 12:1 ratio Double Action, 5" Industrial Air Motor with Booster Valves and Dual Mufflers, 2" Stem, 1983A Surge Chamber, 1" Extension Tube, Bung Adapter, 5000 Air Coupler, 54H Air Adapter, 368P Air Regulator and Gauge. Flow: 20 pt./min.

8643 HEAVY DUTY STUB PUMP 7:1 ratio Double Action, 4" Industrial Air Motor with Booster Valves and Dual Mufflers, 2" Stem, 1983A Surge Chamber, 2" NPT (m) foot valve, 5000 Air Coupler, 54H Air Adapter, 368P Air Regulator and Gauge. Flow: 21 qt./min.

8653 HEAVY DUTY STUB PUMP 12:1 ratio Double Action, 5" Industrial Air Motor with Booster Valves and Dual Mufflers, 1983A Surge Chamber, 2" NPT (m) foot valve, 5000 Air Coupler, 54H Air Adapter, 368P Air Regulator and Gauge. Flow: 20 pt./min.



8650

8643

8653

8344A

8344A

8344A

8344A

8345A

8345A

8345A



R80-A4

AIR OPERATED AIRLESS PUMPS

Airless Pump Numbering System

Air Motor Diameter

Royal 3" diameter 31/4" Stroke R33 R30 Royal 3" diameter 41/2" Stroke Royal 4" diameter 41/2" Stroke R40 Royal 5" diameter 41/2" Stroke R50 Royal 7" diameter 41/2" Stroke R70

Royal 8" diameter 41/2" Stroke R80

Pump Fluid Section*

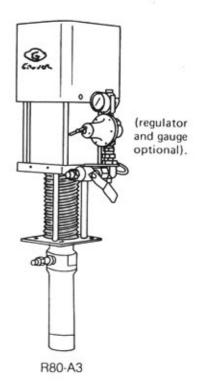
A1 0.5 GPM @ 85 CPM A2 1.22 GPM @ 60 CPM

A3 2.4 GPM @ 60 CPM

A4 3.5 GPM @ 60 CPM

*Hard chromed steel piston and cylinder, tungsten carbide seats, stainless steel balls, Teflon and leather "V" packings

Models	Ratio	GPM	Cycle Rate
R30-A2	11:1	1.22	60
R50-A3	17:1	2.4	60
R40-A2	21:1	1.22	60
R70-A4	23:1	3.5	60
R33-A1	30:1	.50	85
R50-A2	33:1	1.22	60
R80-A4	33:1	3.5	60
R70-A3	38:1	2.4	60
R80-A3	48:1	2.4	60



See Grover airless catalog Form 1-286 for airless outfits and accessories.

				AIR						
Pump Model	Cycles Per Gal.		Required (C a. Gal. Deli		Stroke		luid Delivery SPM	Air	Fluid Inlet	Fluid Outlet
		60 PSI	80 PSI	100 PSI		Intermittent	Circulating System	Inlet		
R30-A2	49	7.6	9.0	11.2	4½"	1.22	0.49	%"NPT(M)	%''NPT(F)	%''NPT(F
R50-A3	25	11,1	12.5	15.3	4%"	2.40	0.96	½"NPT(M)	%''NPT(F)	%''NPT(F
R40-A2	49	13,6	16.3	19.1	41/2"	1.25	0.50	%"NPT(M)	%"NPT(F)	%"NPT(F
R70-A4	17	14.1	18.0	21.7	4%"	3.50	1.40	¾''NPT(F)	1" NPT(F)	%"NPT(F
R33-A1	170	19,1	22.5	27.9	3¼"	0.50	N/A	3/8"NPT(F)	%"NPT(M)	3/8"NPT
R50-A2	49	21.8	24.5	29.9	4%"	1,22	0.49	%"NPT(F)	%''NPT(F)	%"NPT(F
R80-A4	17	21.4	27.9	34.3	4½"	3,50	1.40	%"NPT(F)	1" NPT(F)	%''NPT(F
R70-A3	25	20.8	26.4	31.9	4½"	2,40	0.96	%''NPT(F)	%"NPT(F)	%"NPT(F
R80-A3	25	35.7	46.4	57.1	4%"	2.40	0.96	%''NPT(F)	%"NPT(F)	1/2"NPT(F