

# AF0646 Series Pumps

## 46:1 Ratio, 6" Air Motor, Chop-Check Lower End



(Model shown w/ball valve regulator)

DIMENSIONS	
A <sup>1</sup> in (mm)	54.01 (1371.83)
B in (mm)	30.74 (780.69)
C in (mm)	17.74 (450.49)

<sup>1</sup>For models without ball valve regulator subtract 2.08 in (52.83 mm)

### Pump Specifications

Ratio	46:1
Stroke (double acting)	6" (15.24 cm)
Material Inlet	Flange Mount
Material Outlet	1" NPT(F)
Air Inlet (female)	1/2" NPT(F)
Air Inlet Pressure Range psi (bar)	0 - 150 (0 - 10.3)
Fluid Pressure Range psi (bar)	0 - 7485 (0 - 516.2)
Max Cycles/Minute	60
Displacement/Cycle cu in (cm <sup>3</sup> )	6.97 (113)
Cycles/gal (L)	33.1 (8.8)
Flow @ 60 Cycles gpm (L/min)	1.8 (6.9)
Noise Level @ 60 psi dBA	84.7
Weight* lb (kg)	67 (30.4)
Container Suitability	Remote Mounting

\*Estimated weight. Contact Technical Support for exact weight.



Transfer and Supply



Extrusion

#### Materials

Caulking	Mastics	Sealants
Inks	Heavy Lubricants	



#### Chop-Check Lower End Style

- Capable of moving medium- to high-viscosity fluids ranging from 15,000 to more than 1,000,000 cPs.
- Material delivery rates up to 12.2 gpm (46.3 L/min)

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Pump Service Kit
Lower Pump Material - Carbon Steel, Nickel-Plated					
AF0646S11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66266-C43-B	637074-C43-B
AF0646S11GF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Glass Filled PTFE (Staggered)	UHMW-PE	66266-P43-B	637074-P43-B
AF0646S11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	66266-343-B	637074-343-B
AF0646S11HH47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE/Leather (Staggered)	66266-G43-B	637074-G43-B
AF0646S11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/UHMW-PE (Staggered)	Glass Filled PTFE	66266-R43-B	637074-R43-B

\*\*Add "-1" to Model No. for Ball Valve Regulator

#### RECOMMENDED ACCESSORIES

67445-2 Muffler Kit	66334-B Wet-Sol Packing Lubricant	23644-400 ARO-Stop Valve	65139 Floor Mount	67442 Ball Valve Regulator	637489 Universal Air Motor Service Kit

For manuals, flow curves, and more

[ingressrandproducts.com/AFX](http://ingressrandproducts.com/AFX)

For simple pump selection or application assistance

(800) 495-0276 [arohotline@irco.com](mailto:arohotline@irco.com)

# ARO

**Ingessrand**  
Industrial Technologies

# 46:1 Ratio Pump Packages



**SPX Series**  
Single Post Ram

5  
GALLON



**TPX Series**  
Two Post Ram

55  
GALLON



**FMX Series**  
Floor Mount

BULK

Packages						
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Description	Material
SP0646S21FF47E32	5 Gallon Single Post Ram	AF0646S11FF47	RM051S-C	67342-1	Single Lip, Polyurethane/Urethane	Carbon Steel, Electroless Nickel Coating
TP0646S21FF47E32	5 Gallon Two Post Ram	AF0646S11FF47	RM052S-C	67342-1	Single Lip, Polyurethane/Urethane	Carbon Steel, Electroless Nickel Coating
TP0646S51FF47AA2	55 Gallon Two Post Ram	AF0646S11FF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0646S51GF47AA2	55 Gallon Two Post Ram	AF0646S11GF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0646S51KK47AA2	55 Gallon Two Post Ram	AF0646S11KK47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0646S51KK47TA2	55 Gallon Two Post Ram	AF0646S11KK47	RM552S-C	66516-6	Double Lip, Polyurethane	Aluminum w/PTFE Coating
TP0646S51HH47AA2	55 Gallon Two Post Ram	AF0646S11HH47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0646S51RK47AA2	55 Gallon Two Post Ram	AF0646S11RK47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum

  

Model No.	Package Type	Pump Model	Floor Mount Kit	Ball Valve	Material Supply Hose	Material Hose w/Fittings
FM0646S11GF47001	Floor Mount	AF0646S11GF47-1	65138	67073	628088-7	628089-6

### RECOMMENDED ACCESSORIES



**Extrusion Guns**

**651500** For material over 200,000 cP 3/8" (F) inlet  
**651533** For low- to medium-viscosity fluids 1/4" NPS (M) inlet



**Extrusion Gun Nozzle Kits**

**66541-6** Orifice .063" (1.63 mm), **66541-9** Orifice .093" (2.36 mm),  
**66541-2** Orifice .125" (3.17 mm)



**Swivel**

**636085** Straight, 3/8" (M) x 3/8" (F) / fabric with neoprene / 8,000 psi (552 bar) max. working pressure  
**636088** Z-360°, 3/8" (M) x 3/8" (F) / fabric with neoprene / 8,000 psi (552 bar) max. working pressure  
**75364** Straight, for use with 651533 gun / 1/4"-18 NPTF to 1/4"-18 NPSM / 10,000 psi (690 bar) max working pressure



**Material Filters**

1" F (2) inlet 3/8" F (3) outlet / 6,000 psi (414 bar) max. / Carbon Steel  
**651418-40-B** for 40 Mesh (375 Microns)  
**651418-70-B** for 70 Mesh (200 Microns)



**3/4" Fluid Pressure Regulators**

**651780-C1B-B** Regulated 750 – 2,500 psi (52 – 173 bar) / 6,000 psi (414 bar) max. inlet / carbon steel  
**651780-C1C-B** Regulated 2,000 – 5,000 psi (138 – 345 bar) / 6,000 psi (414 bar) max. inlet / carbon steel  
**651780-C3B-B** Regulated 750 – 2,500 psi (52 – 173 bar) / 6,000 psi (414 bar) max. inlet / stainless steel  
**651780-C3R-B** Regulated 750 – 5,000 psi (52 – 345 bar) / 6,000 psi (414 bar) max. inlet / stainless steel

### Other Accessories & Repair Kits

62274	Air Line Oil
96916	Standard Air Motor Muffler
66333-B	Wet-Sol (1 Quart)
66354-1	Stabilizing Bracket
637489	Universal Air Motor Service Kit
637465	5 Gallon Single Post Ram Repair Kit
637466	5 Gallon Two Post Ram Repair Kit
637491	55 Gallon Two Post Ram Repair Kit (RM552S-X)
67448	Cross Over Kit
67500	Low-Level Cut-Off Kit