

## AF0412 Series Pumps

12:1 Ratio, 4-1/4" Air Motor, Chop-Check Lower End



(Model shown w/ball valve regulator)

### Pump Specifications

|                                    |                     |
|------------------------------------|---------------------|
| Ratio                              | 12:1                |
| 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 -2085 (0 - 143.8) |
| Max Cycles/Minute                  | 60                  |
| Displacement/Cycle cu in (cm3)     | 12.5 (204.8)        |
| Cycles/gal (L)                     | 18.5 (4.8)          |
| Flow @ 60 Cycles gpm (L/min)       | 3.2 (12.3)          |
| Noise Level @ 60 psi dBA           | 86.5                |
| Weight* lb (kg)                    | 64 (29)             |
| Container Suitability              | Remote Mounting     |

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



**Transfer and Supply**



**Extrusion**

### Materials

Caulking  
Inks

Mastics  
Heavy Lubricants

Sealants



### 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 |                                    |                                        |                             |                  |                  |
| AF0412S11FF47                                     | 17-4 Stainless Steel w/Hard Chrome | UHMW-PE                                | UHMW-PE                     | 66243-C43-B      | 637071-C43-B     |
| AF0412S11KK47                                     | 17-4 Stainless Steel w/Hard Chrome | Glass Filled PTFE                      | Glass Filled PTFE           | 66243-343-B      | 637071-343-B     |
| AF0412S11HH47                                     | 17-4 Stainless Steel w/Hard Chrome | UHMW-PE/Leather (Staggered)            | UHMW-PE/Leather (Staggered) | 66243-G43-B      | 637071-G43-B     |
| AF0412S11GF47                                     | 17-4 Stainless Steel w/Hard Chrome | UHMW-PE/Glass Filled PTFE (Staggered)  | UHMW-PE                     | 66243-P43-B      | 637071-P43-B     |
| AF0412S11RK47                                     | 17-4 Stainless Steel w/Hard Chrome | Glass Filled PTFE/ UHMW-PE (Staggered) | Glass Filled PTFE           | 66243-R43-B      | 637071-R43-B     |

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

### RECOMMENDED ACCESSORIES



**67445-1**  
Muffler Kit



**66334-B**  
Wet-Sol Packing  
Lubricant



**23644-400**  
ARO-Stop  
Valve



**65139**  
Floor Mount



**67442**  
Ball Valve  
Regulator

**ServiceKits**

**637489**  
Universal Air Motor  
Service Kit

### 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)

# 12:1 Ratio Pump Packages



TPX Series  
Two Post Ram

| Packages         |                        |               |                |          |                          |                            |
|------------------|------------------------|---------------|----------------|----------|--------------------------|----------------------------|
| Model No.        | Package Type           | Pump Model    | Ram/Lift Model | Follower | Follower Description     | Material                   |
| TP0412S51FF47AA2 | 55 Gallon Two Post Ram | AF0412S11FF47 | RM552S-C       | 66516-1  | Double Lip, Polyurethane | Aluminum                   |
| TP0412S51KK47AA2 | 55 Gallon Two Post Ram | AF0412S11KK47 | RM552S-C       | 66516-1  | Double Lip, Polyurethane | Aluminum                   |
| TP0412S51HH47AA2 | 55 Gallon Two Post Ram | AF0412S11HH47 | RM552S-C       | 66516-1  | Double Lip, Polyurethane | Aluminum                   |
| TP0412S51GF47TA2 | 55 Gallon Two Post Ram | AF0412S11GF47 | RM552S-C       | 66516-6  | Double Lip, Polyurethane | Aluminum<br>w/PTFE Coating |
| TP0412S51GF47AA2 | 55 Gallon Two Post Ram | AF0412S11GF47 | RM552S-C       | 66516-1  | Double Lip, Polyurethane | Aluminum                   |

## 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              |
| 637491  | 55 Gallon Two Post Ram Repair Kit (RM552S-X) |
| 67448   | Cross Over Kit                               |
| 67500   | Low-Level Cut-Off Kit                        |