

PISTON PUMPS

CHOP-CHECK PUMP MODELS



Chop-Check pumps are designed to move medium-to-high viscosity fluids in difficult applications.

For over 85 years, the ARO[®] Fluid Products business of Ingersoll Rand[®] has developed relationships with more than 200 original equipment manufacturers and distributors, enabling us to better focus on the unique pumping needs of many industries. It's a strategic merger of our customers' application expertise, along with our decades-long legacy of designing and building outstanding piston pumps.

Piston pumps are the heartbeat that keeps material flowing through your most vital systems. When a steady stream is essential to your operation, it's important to trust products that can handle the pressure—that's where ARO[®] comes in.

ARO[®] offers a versatile range of piston pump packages capable of meeting the specific needs of your specific application. Available in multiple configurations with a broad selection of pressure ratios and displacement rates, our pumps can help unlock superior performance and increase production across a number a unique applications.

Unmatched application expertise in:



Simply better pumps

ARO[®] LOWER PUMP END TECHNOLOGY

Whether your application requires a 2-ball, 4-ball, or chop-check piston pump, with ARO[®] you get a pump that's better engineered, from the inside out. We offer design features and performance enhancements that ensure your pump is as durable and dependable as possible — maximizing output and minimizing downtime for a long time to come.

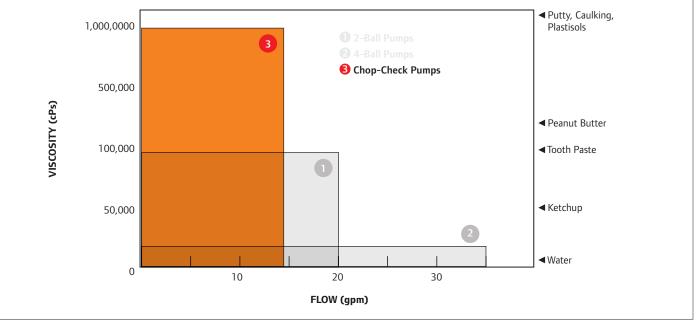
Pump selection made simple

With an ARO[®] piston pump, you can be assured of getting reliable equipment with the least amount of effort, calculation, or hassle on your part. There are basically four factors to take into consideration when selecting the right configuration for your application:

▼ Type of fluid ▼ Viscosity or thickness ▼ Required flow rate ▼ Required output pressure

Pump selection at a glance

Knowing fluid viscosity and flow rates makes it easier to choose the right pump for your application. Not sure what size air motor or piston pump you need? No problem. You can find out by calling ARO[®] Technical Support and working directly with our expert pump consultants, or by visiting our website to access specific pump performance data. Either way, you'll be sure to get a motor and pump package that operates efficiently, reliably, and safely.



Best-in-class output

• Our 6" stroke delivers best-in-class displacement per cycle, delivering better flow rate, better output, and less fatigue on parts.

Easy serviceability

- Plungers and packings are easily accessible, minimizing downtime.
- Pump packings on the lower pumps are adjustable, featuring a wave spring and guide arrangement.
- Parts are available in convenient service kits so you have the right parts at the right time.

Superior performance with abrasive fluids

- ARO[®] chop-check pumps feature plunger rods that are hard chromeplated or made of hardened stainless steel. The result: components that resist the scoring caused by pumping abrasive fluids.
- Available in affordable **high-grade stainless-steel** construction.
- Electro-polished and passivated for material compatibility and corrosion-free operation.
- **Eight packing options** are available, including ultra-high molecular weight polyethylene (UHMW-PE), for even better material compatibility and excellent abrasion resistance.

Simply Versatile

The heavy-hitters of the line, ARO[®] chop-check pumps are designed to move medium-to highviscosity fluids ranging from 15,000 cPs to more than 1,000,000 cPs, and at delivery rates up to 12.2 gpm (46.3 L/min).

Applications advantages of Chop-Check:



Extrusion: Chop-Check pumps are workhorses - able to deliver viscous adhesives, sealants, caulking and heavy lubricants to the application point at the desired pressure and flow rate.



Transfer & Supply: Depending on the model, some Chop-Check pumps are capable of achieving flow rates up to 12.2 gpm, ensuring efficient transfer of heavy greases, inks and other viscous materials.

Materials advantages of Chop-Checks:

Chop-Check pumps have a primer piston to 'feed' material into the pump. They are often used in conjunction with a follower plate to force material down. This prevents loss of prime due to Channeling - a condition where the pump inlet becomes surrounded by air due to the cavity formed when a high viscosity material does not level off when removed (Slumpability).

- Stringy materials: Chop-Checks have mechanical, flat checks to overcome materials that resist cut-off and adhere to themselves.
- Tacky materials: Chop-Check pump options come in high ratios to generate the fluid pressure needed to move materials that will adhere to hoses and equipment while wet.



Selection Chart



See Page

12:1	3.2 gal/min 12.3 l/min	Carbon steel	8
13:1	12.2 gal/min 46.3 l/min	Carbon steel	10
20:1	12.2 gal/min 39.7 l/min	Carbon steel	12
22:1	0.5 gal/min 1.9 l/min	Carbon steel	14
22:1	0.5 gal/min 1.9 l/min	Stainless steel	15
23:1	1.8 gal/min 6.9 l/min	Carbon steel	17
23:1	3.2 gal/min 12.3 l/min	Carbon steel	19
28:1	6.0 gal/min 22.7 l/min	Carbon steel	21
30:1	12.2 gal/min 46.3 l/min	Carbon steel	23
43:1	0.74 gal/min 2.8 l/min	Carbon steel or stainless steel	24
44:1	3.8 gal/min 14.3 l/min	Carbon steel	26
44:1	6.0 gal/min 22.9 l/min	Carbon steel	28
46:1	1.8 gal/min 6.9 l/min	Carbon steel	30
65:1	1.3 gal/min 5.1 l/min	Carbon steel	32
65:1	6.0 gal/min 22.9 l/min	Carbon steel	34

Viscosity Guide

Flow (gpm)	Maximum Delivery Rate gpm (L/min)	Ratio	Fluid Pressure Range psi (bar)	Pump Model Number	Material of Construction	Lower End Type	500 cPs 1,000 cPs 5,000 cPs
	0.5 (1.9)	22:1	660 - 3300 (45.4 - 227.6)	NM2322E-XX-P4X	Carbon Steel	Chop-Check	Flooded Inlet
	0.5 (1.9)	22:1	660 - 3300 (45.4 - 227.6)	NM2322F-XX-P4X	Stainless Steel	Chop-Check	Flooded Inlet
	0.74 (2.8)	43:1	1308 - 6549 (90.2 - 451.7)	AF0443S21XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	0.74 (2.8)	43:1	1308 - 6549 (90.2 - 451.7)	AF0443T21XXXX	Stainless Steel	Chop-Check	Flooded Inlet
0-2	0.74 (2.8)	43:1	1308 - 6549 (90.2 - 451.7)	AF0443S71XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	1.3 (5.1)	65:1	1950 - 7475 (134.5 - 515.5)	AF0665S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	1.8 (6.9)	23:1	690 - 3690 (47.6 - 254.5)	AF0423S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	1.8 (6.9)	46:1	1380 - 7485 (95.1 - 516.2)	AF0646S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	3.2 (12.3)	23:1	690 - 4215 (47.6-290.7)	AF0623S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
2-4	3.2 (12.3)	12:1	360 - 2085 (24.8-143.8)	AF0412S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	3.8 (14.3)	44:1	1320 - 5964 (91 - 411.3)	AF0844S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	6 (22.7)	28:1	840 - 3360 (57.9 - 231.7)	AF0828S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
4-10	6 (22.7)	44:1	1320 - 3960 (91 - 273)	AF1044S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	6 (22.7)	65:1	1950 - 5850 (134.5 - 403.3)	AF1265S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	12.2 (46.3)	13:1	390 - 1900 (26.9 - 131)	AF0813S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
10-20	12.2 (46.3)	20:1	600 - 2250 (41.4 - 155.1)	AF1020S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet
	12.2 (46.3)	30:1	900 - 3250 (62.1 - 224.1)	AF1230S11XXXX	Carbon Steel	Chop-Check	Flooded Inlet

7,500 cPs	10,000 cPs	12,500 cPs	15,000 cPs	20,000 cPs	35,000 cPs	50,000 cPs	75,000 cPs	100,000 cPs	250,000 cPs	500,000 cPs	750,000 cPs	1 000 000 c
7,500 CF3	10,000 CF3	12,500 CF3	13,000 CF3	20,000 CF3	35,000 CF3		m Mounted	100,000 (13	230,000 CF3	500,000 CF3	730,000 CF3	1,000,000 C
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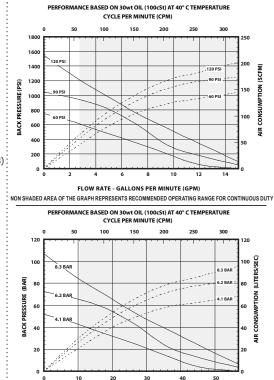
AF0412 Series Pumps





Materials: Caulking, Inks, Mastin Sealants	cs, Heavy Lubricants,	•
Pump Specifications		
Ratio	12:1	
Stroke (double acting)	6″ (15.24 cm)	_
Material Inlet	Flange Mount	ACK PRESSURE (PSI)
Material Outlet	1" NPT(F)	RESSU
Air Inlet (female)	1/2" NPT(F)	BACK P
Air Inlet Pressure Range psi (bar)	30-150 (2-10.3)	-
Fluid Pressure Range psi (bar)	360-2085 (24.8-143.8)	
Max Cycles/Minute	60	
Displacement/Cycle cu in (cm3)	12.5 (204.8)	: NON S
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 e	xact weight.	SSURE
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DIMENSIONS	
A ¹ in (mm)	54.01 (1371.83)
B in (mm)	30.74 (780.69)
C in (mm)	17.74 (450.49)
¹ For models without ba	Il valve regulator subtract 2.08 in (5



.83 mm)



Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit	
Lower Pump Ma	Lower Pump Material - Carbon Steel, Nickel Plated (AF0412SXXXXXX)						
AF0412S11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66243-C43-B	А	637071-C43-B	
AF0412S11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	66243-343-B	А	637071-343-B	
AF0412S11HH47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE/Leather (Staggered)	66243-G43-B	А	637071-G43-B	
AF0412S11GF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Glass Filled PTFE (Staggered)	UHMW-PE	66243-P43-B	А	637071-P43-B	
AF0412S11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	66243-R43-B	А	637071-R43-B	
Lower Pump Ma	terial - Stainless S	teel, (AF0412TXXX)	(XX)				
AF0412T11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-P ^E	1756T11FF47	А	K1756T11FF00	
AF0412T11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	1756T11KK47	А	K1756T11KK00	
AF0412T11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	1756T11RK47	А	K1756T11RK00	
AF0412T11SS47	17-4 Stainless Steel w/Hard Chrome	Virgin PTFE	Virgin PTFE	1756T11SS47	A	K1756T11SS00	

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

(Model shown w/ball valve regulator)



12:1 Ratio Pump Packages



			Packages			
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
Carbon Steel Packages						
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
TP0412S51KK47AN2	55 Gallon Two Post Ram	AF0412S11KK47	RM552S-C	67195-2	Double Tube, EPR	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 w/PTFE Coating
TP0412S51GF47AA2	55 Gallon Two Post Ram	AF0412S11GF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
Stainless Steel Packages						
SP0412T21KK47S22	5 Gallon Single Post Ram	AF0412T11KK47	RM051S-C-B	67536-1	Single Lip, Polyurethane	Stainless Steel
SP0412T21KK47TU2	5 Gallon Single Post Ram	AF0412T11KK47	RM051S-C-B	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0412T21KK47S22	5 Gallon Two Post Ram	AF0412T11KK47	RM052S-C	67536-1	Single Lip, Polyurethane	Stainless Steel
TP0412T21KK47TU2	5 Gallon Two Post Ram	AF0412T11KK47	RM052S-C	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0412T51KK47TK2	55 Gallon Two Post Ram	AF0412T11KK47	RM552S-C	67527-1	Double Tube, EPR	Screen - Aluminum w/PTFE Coating
TP0412T51KK47TL2	55 Gallon Two Post Ram	AF0412T11KK47	RM552S-C	67527-2	Double Tube, FDA Neoprene	Screen - Aluminum w/PTFE Coating





AF0813 Series Pumps



AFX

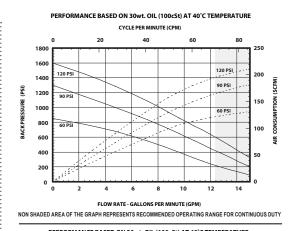
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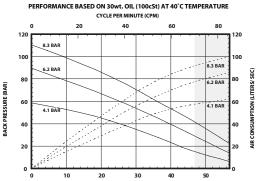


(Model shown w/ball valve regulator)

Materials: Caulking, Inks, Mast Sealants	ics. Heavy Lubricants,			
Pump Specifications				
Ratio	13:1			
Stroke (double acting)	6″ (15.24 cm)			
Material Inlet	Flange Mount			
Material Outlet	1-1/2" NPT(F)			
Air Inlet (female)	3/4" NPT(F)			
Air Inlet Pressure Range psi (bar)	30 - 120 (2.1 - 8.3)			
Fluid Pressure Range psi (bar)	390 - 1900 (26.9 - 131.0)			
Max Cycles/Minute	70			
Displacement/Cycle cu in (cm3)	40.4 (662.0)			
Cycles/gal (L)	5.7 (1.5)			
Flow @ 70 Cycles gpm (L/min)	12.2 (46.3)			
Noise Level @ 60 psi dBA	86.8			
Weight* lb (kg)	125.5 (56.9)			
Container Suitability Remote Mounting *Estimated weight. Contact Technical Support for exact weight.				

DIMENSIONS					
A ¹ in (mm)	54.40 (1381.71)				
B in (mm)	31.34 (796.11)				
C in (mm) 19.94 (506.40)					
¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)					





FLOW RATE - LITERS PER MINUTE (LPM) NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Mode	el Material - Carbo	n Steel, Nickel Plated				
AF0813S11FF44	Carbon Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66236-C4E-B	В	637128-C44-B
AF0813S11GF44	Carbon Steel w/Hard Chrome	UHMW-PE/Glass Filled PTFE (Staggered)	UHMW-PE	66236-P4E-B	В	637128-P44-B
AF0813S11HF44	Carbon Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE	66236-F4E-B	В	637128-F44-B
AF0813S11PF14	Carbon Steel w/Hard Chrome	Polyurethane	UHMW-PE	66236-J3E-B	В	637128-J34-B

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



AFX Series 13:1 Ratio Pump Packages



			Packages			
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
TP0813S51HF44AA2	55 Gallon Two Post Ram	AF0813S11HF44	RM552S-C	66517-1	Double Lip, Polyurethane	Aluminum
Model No.	Package Type	Pump Model	Floor Mount Kit	Ball Valve	Material Supply Hose	Material Hose w/Fittings
FM0813S11PF14001	Floor Mount	AF0813S11PF14-1	65139	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-C3B-B Regulated 750 – 2,500 psi (52 – 173 bar) / 6,000 psi (414 bar) max. inlet / stainless steel

62274	Air Line Oil
96916	Standard Air Motor Muffler
66333-В	Wet-Sol (1 Quart)
66353-1	Stabilizing Bracket
637489	Universal Air Motor Service Kit
637472	55 Gallon Two Post Ram Repair Kit (RM552S-X / RM552H-X)
67480	55 Gallon Two Post Ram Cross Over Kit
67501	55 Gallon Two Post Ram Low Level Cut-Off Kit
67503	55 Gallon Drum Hold Down Kit



AFX

AF1020 Series Pumps

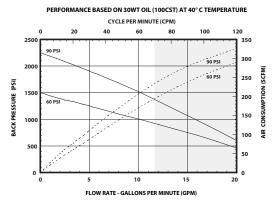


Materials: Caulking, Inks. Mastics, Heavy Lubricants, Sealants **Pump Specifications** Ratio 20:1 Stroke (double acting) 6" (15.24 cm) Material Inlet Flange Mount

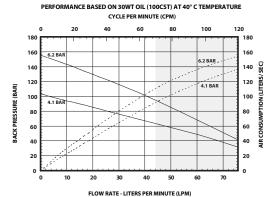
1-1/2" NPT(F) Material Outlet Air Inlet (female) 3/4" NPT(F) Air Inlet Pressure Range psi (bar) 30 - 90 (2.1 - 6.2) Fluid Pressure Range psi (bar) 600 - 2250 (41.4 - 155.2) Max Cycles/Minute 70 Displacement/Cycle cu in (cm3) 40.4 (662.0) Cycles/gal (L) 5.7 (1.5) Flow @ 70 Cycles gpm (L/min) 12.2 (46.3) Noise Level @ 60 psi dBA 89.8 144 (65.3) Weight* lb (kg) **Container Suitability Remote Mounting** *Estimated weight. Contact Technical Support for exact weight

DIMENSIONS A¹ in (mm) 54.40 (1381.71) B in (mm) 31.34 (796.11) C in (mm) 19.94 (506.40)

¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)



NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY



NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Mode	l Material - Carbo	n Steel, Nickel Plat	ed			
AF1020S11FF44	Carbon Steel, w/Hard Chrome	UHMW-PE	UHMW-PE	66236-C4E-B	В	637128-C44-B
AF1020S11HF44	Carbon Steel, w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE	66236-F4E-B	В	637128-F44-B
AF1020S11PF14	Carbon Steel, w/Hard Chrome	Polyurethane	UHMW-PE	66236-J3E-B	В	637128-J34-B

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

Recommended Accessories



(Model shown w/ball valve regulator)





			Packages			
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
TP1020S51FF44AA2	55 Gallon Two Post Ram	AF1020S11FF44	RM552S-C	66517-1	Double Lip, Polyruethane	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

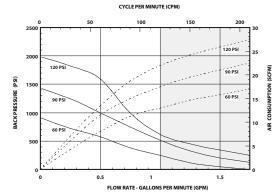
62274	Air Line Oil
96916	Standard Air Motor Muffler
66333-В	Wet-Sol (1 Quart)
66353-1	Stabilizing Bracket
637489	Universal Air Motor Service Kit
637472	55 Gallon Two Post Ram Repair Kit (RM552S-X / RM552H-X)
67480	55 Gallon Two Post Ram Cross Over Kit
67501	55 Gallon Two Post Ram Low Level Cut-Off Kit
67503	55 Gallon Drum Hold Down Kit

NM2322E Series Pumps



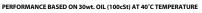
Materials: Caulking, Inks, Mastics Sealants	s, Heavy Lubricants,
Pump Specifications	
Ratio	22:1
Stroke (double acting)	3″ (7.62 cm)
Material Inlet	Follower Plate
Material Outlet	Mounted 1/2″ NPT(F)
Air Inlet (female)	1/4" NPT(F)
Air Inlet Pressure Range psi (bar)	30 -150 (2.1 - 10.3)
Fluid Pressure Range psi (bar)	660 - 3,300 (45.4 - 227.6)
Max Cycles/Minute	120
Displacement/Cycle cu in (cm3)	1.9 (31.1)
Cycles/gal (L)	121.6 (32.1)
Flow @ 60 Cycles gpm (L/min)	.5 (1.9)
Noise Level @ 100 psi dBA	85
Weight* lb (kg) NM2322E-11-P43 NM2322E-11-P48 NM2322E-11-P71	29 (13.2) 29 (13.2) 33 (15.0)

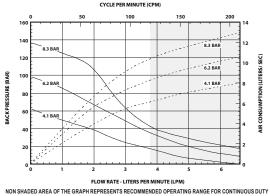
*Estimated weight. Contact Technical Support for exact weight.



PERFORMANCE BASED ON 30wt. OIL (100cSt) AT 40°C TEMPERATURE

NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY





DIMENSIONS	A in (mm)	B in (mm)	C in (mm)
NM2322E-11-P4X	33-23/32" (856.1)	24-15/32" (620.8)	14-3/16″ (360.5)
NM2322E-71-P4X	42-5/8" (1082.6)	33-11/32" (846.9)	14-3/16″ (360.5)
NM2322F-11-P4X	33-23/32″ (856.1)	24-15/32″ (620.8)	14-3/16″ (360.5)
NM2322F-71-P4X	42-5/8″ (1082.6)	33-11/32″ (846.9)	14-3/16″ (360.5)

Pump Model	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Model M	aterial - Carbo	on Steel				
NM2322E-11-P43	17-4, Stainless*	UHMW-PE PTFE Staggered	UHMW-PE with standard plunger	67100-P43	С	637290-P43
NM2322E-11-P48	17-4, Stainless*	UHMW-PE PTFE Staggered	UHMW-PE with alternative piston**	67100-P48	С	637290-P48
NM2322E-71-P43	17-4, Stainless*	UHMW-PE PTFE Staggered	UHMW-PE with standard plunger	67100-P43	C	637290-P43

*Hard-chrome plated ** Better for fluids containing filler material

Recommended Accessories



22:1 3"

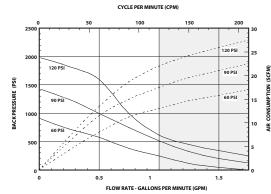
NM2322F Series Pumps



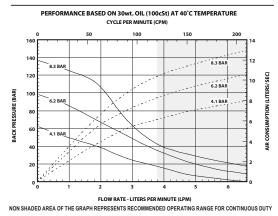
22:1

3"

Materials: Caulking, Inks, Mastic Sealants	s, Heavy Lubricants,				
Pump Specifications					
Ratio	22:1				
Stroke (double acting)	3″ (7.62 cm)				
Material Inlet	Follower Plate Mounted				
Material Outlet	1/2" NPT(F)				
Air Inlet (female)	1/4" NPT(F)				
Air Inlet Pressure Range psi (bar) 30 -150 (2.1 - 10.3)					
Fluid Pressure Range psi (bar) 660 - 3,300 (45.4 - 227.6)					
Max Cycles/Minute	120				
Displacement/Cycle cu in (cm3)	1.9 (31.1)				
Cycles/gal (L)	121.6 (32.1)				
Flow @ 60 Cycles gpm (L/min)	.5 (1.9)				
Noise Level @ 100 psi dBA	85				
Weight* lb (kg) NM2322F-11-P43 NM2322F-11-P48 NM2322F-11-P71	• •				
*Estimated weight. Contact Technical Support for exact weight.					



NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY



DIMENSIONS	A in (mm)	B in (mm)	C in (mm)
NM2322E-11-P4X	33-23/32" (856.1)	24-15/32" (620.8)	14-3/16″ (360.5)
NM2322E-71-P4X	42-5/8" (1082.6)	33-11/32" (846.9)	14-3/16″ (360.5)
NM2322F-11-P4X	33-23/32" (856.1)	24-15/32" (620.8)	1 4-3/16" (360.5)
NM2322F-71-P4X	42-5/8″ (1082.6)	33-11/32″ (846.9)	14-3/16″ (360.5)

Pump Model	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Model Material - Stainless Steel						
NM2322F-11-P43	17-4, Stainless*	UHMW-PE PTFE Staggered	UHMW-PE with standard plunger	67101-P43	C	637291-P43
NM2322F-11-P48	17-4, Stainless*	UHMW-PE PTFE Staggered	UHMW-PE with alternative piston**	67101-P48	C	637291-P48
NM2322F-71-P43	17-4, Stainless*	UHMW-PE PTFE Staggered	UHMW-PE with standard plunger	67101-P43	C	637291-P43

*Hard-chrome plated ** Better for fluids containing filler material

Recommended Accessories



PERFORMANCE BASED ON 30wt. OIL (100cSt) AT 40°C TEMPERATURE



NM2322E/F Packages





Packages						
Model No.	Package Type	Pump Model	Ram Model	Follower	Follower Seal Description	Material
NP322L01-1	5-Gallon Pail, Cart Mount	NM2322E-11-P43	67075-B	67486-1	290mm Single Lip, Polyethylene / Urethane	Carbon steel
NP322L02-1	5-Gallon Pail, Cart Mount	NM2322F-11-P43	67075-B	67487-1	290mm Single Lip, PTFE Coated Nitrile	Stainless steel
NP322R03-1	55-Gallon Drum, Two-Post Ram	NM2322E-11-P43	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
NP322R03-2	55-Gallon Drum, Two-Post Ram	NM2322F-11-P43	RM552S-C	66516-6	Double Lip, Polyurethane	Teflon-coated Aluminum
NP322EP43R7-10	5-Gallon Drum, Single-Post Ram	NM2322E-11-P43	RM051S-C-B	67486-1	290mm Single Lip, Polyethylene / Urethane	Carbon steel
NP322FP43R7-13	5-Gallon Drum, Single-Post Ram	NM2322F-11-P43	RM051S-C-B	67487-1	290mm Single Lip, PTFE Coated Nitrile	Stainless steel
NP322EP43R8-10	5-Gallon Drum, Two-Post Ram	NM2322E-11-P43	RM052S-C	67486-1	290mm Single Lip, Polyethylene / Urethane	Carbon steel
NP322FP43R8-13	5-Gallon Drum, Two-Post Ram	NM2322F-11-P43	RM052S-C	67487-1	290mm Single Lip, PTFE Coated Nitrile	Stainless steel

Recommended Accessories

Swivel



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), 66541-12 Orifice .125" (3.17 mm)

- Con

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

1″ 65

651418-40-B for 40 Mesh (375 Microns) **651418-70-B** for 70 Mesh (200 Microns)



651780-A3A-B Regulated 400 – 1,250 psi (28 – 86 bar) / 3,000 psi (207 bar) max. inlet / stainless steel **651780-B1A-B** Regulated 400 – 1,250 psi (28 – 86 bar) / 3,000 psi (207 bar) max. inlet / carbon steel **651780-B1B-B** Regulated 400 – 1,250 psi (28 – 86 bar) / 5,000 psi (345 bar) max. inlet / carbon steel **651780-B3R-B** Regulated 400 – 1,250 psi (28 – 86 bar) / 5,000 psi (345 bar) max. inlet / stainless steel



Reducer Bushings Connects Pump to 3/8- or 1/2-inch hoses

 Y45-306-T
 1/2" NPT to 3/8" NPT

 Y45-312-T
 1" NPT to 1/2" NPT

 97141
 3/4" NPT to 1/2" NPT

62274	Air Line Oil
96916	Standard Air Motor Muffler
66333-B	Wet-Sol (1 Quart)
66353-1	Stabilizing Bracket
637316	Air Motor Service Kit
637465	5 Gallon Single Post Ram Repair Kit
637472	55 Gallon Two Post Ram Repair Kit (RM552S-X / RM552H-X)
67480	55 Gallon Two Post Ram Cross Over Kit
67481	5 Gallon Two Post Ram Cross Over Kit
67482	5 Gallon Single Post Ram Cross Over Kit
67500	5 Gallon Two Post Ram Low Level Cut-Off Kit
67502	5 Gallon Single Post Ram Low Level Cut-Off Kit
67501	55 Gallon Two Post Ram Low Level Cut-Off Kit
67503	55 Gallon Drum Hold Down Kit
67134	Adapter to a 55 Gallon follower plate or 65138 floor stand



AF0423 Series Pumps

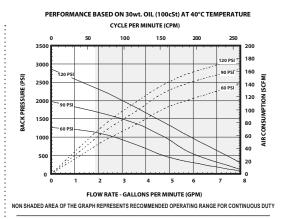


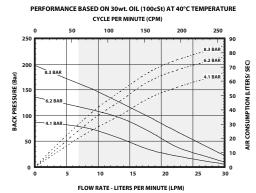
(Model shown w/ball valve regulator)

Materials: Caulking, Inks, Mastics, Heavy Lubricants, Sealants

Pump Specifications Ratio 23:1 Stroke (double acting) 6" (15.24 cm) Material Inlet Flange Mount Material Outlet 1" NPT(F) 1/2" NPT(F) Air Inlet (female) Air Inlet Pressure Range psi (bar) 30 -150 (2.1-10.3) Fluid Pressure Range psi (bar) 690-3690 (47.6-254.5) Max Cycles/Minute 60 Displacement/Cycle cu in (cm3) 6.9 (113.0) Cycles/gal (L) 33.1 (8.8) Flow @ 60 Cycles gpm (L/min) 1.8 (6.9) Noise Level @ 60 psi dBA 86.5 Weight* lb (kg) 63.7 (28.9) Container Suitability Remote Mounting *Estimated weight. Contact Technical Support for exact weight.

DIMENSIONS	
A ¹ in (mm)	54.01 (1371.83)
B in (mm)	30.74 (780.69)
C in (mm)	17.74 (450.49)





NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Mat	erial - Carbon Steel,	Nickel Plated				
AF0423S11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66266-C43-B	А	637074-C43-B
AF0423S11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	66266-343-B	A	637074-343-B
AF0423S11HH47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE/Leather (Staggered)	66266-G43-B	А	637074-G43-B
AF0423S11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	66266-R43-B	A	637074-R43-B
Lower Pump Mat	erial - Stainless Stee	el Steel, (AF0423TXX	XXXX)			
AF0423T11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	1380T11FF47	А	K1380T11FF00
AF0423T11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	1380T11KK47	А	K1380T11KK00
AF0423T11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	1380T11RK47	А	K1380T11RK00
AF0423T11SS47	17-4 Stainless Steel w/Hard Chrome	Virgin PTFE	Virgin PTFE	1380T11SS47	А	K1380T11SS00

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

AFX Series 23:1 Ratio Pump Packages



			Packages			
Model No.	Package Type	Pump Model	Ram Model	Follower	Follower Seal Description	Material
Carbon Steel Packages						
SP0423S21FF47E32	5 Gallon Single Post Ram	AF0423S11FF47	RM051S-C-B	67485-1	Single Lip, Polyethylene/ Urethane	Carbon Steel, Electroless Nickel Coating
TP0423S21FF47E32	5 Gallon Two Post Ram	AF0423S11FF47	RM051S-C-B	67485-1	Single Lip, Polyethylene/ Urethane	Carbon Steel, Electroless Nickel Coating
TP0423S51FF47AA2	55 Gallon Two Post Ram	AF0423S11FF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0423S51HH47AA2	55 Gallon Two Post Ram	AF0423S11HH47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0423S51RK47AA2	55 Gallon Two Post Ram	AF0423S11RK47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
Stainless Steel Packages						
SP0423T21KK47S22	5 Gallon Single Post Ram	AF0412T11KK47	RM051S-C-B	67536-1	Single Lip, Polyurethane	Stainless Steel
SP0423T21KK47TU2	5 Gallon Single Post Ram	AF0412T11KK47	RM051S-C-B	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0423T21KK47522	5 Gallon Two Post Ram	AF0412T11KK47	RM052S-C	67536-1	Single Lip, Polyurethane	Stainless Steel
TP0423T21KK47TU2	5 Gallon Two Post Ram	AF0412T11KK47	RM052S-C	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0412T51KK47TK2	55 Gallon Two Post Ram	AF0412T11KK47	RM552S-C	67527-1	Double Tube, EPR	Screen - Aluminum w/PTFE Coating
TP0412T51KK47TL2	55 Gallon Two Post Ram	AF0412T11KK47	RM552S-C	67527-2	Double Tube, FDA Neoprene	Screen - Aluminum w/PTFE Coating





AFX **Series**

AF0623 Series Pumps

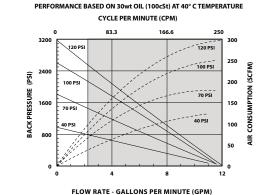


(Model shown w/ball valve regulator)

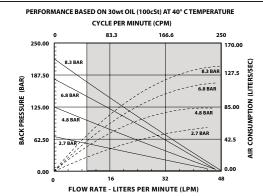
Materials: Caulking, Inks, Mast Sealants	ics,Heavy Lubricants,
Pump Specifications	
Ratio	23:1
Stroke (double acting)	6" (15.24 cm)
Material Inlet	Flange Mount
Material Outlet	1" NPT(F)
Air Inlet (female)	1/2" NPT(F)
Air Inlet Pressure Range psi (bar)	30-150 (2.1-10.2)
Fluid Pressure Range psi (bar)	690-4215 (47.6-290.7)
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	84.7
Weight* lb (kg)	67.3 (30.5)
Container Suitability	Remote Mounting
*Estimated weight. Contact Technical Support for	exact weight.

DIMENSIONS					
A ¹ in (mm)	54.01 (1371.83)				
B in (mm)	30.74 (780.69)				
C in (mm)	17.74 (450.49)				

¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)



NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY



NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
ower Pump Mater.	ial - Carbon Steel,	Nickel Plated				
AF0623S11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66243-C43-B	А	637071-C43-B
AF0623S11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	66243-343-B	А	637071-343-B
AF0623S11HH47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE/Leather (Staggered)	66243-G43-B	А	637071-G43-B
AF0623S11HHD7***	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE/Leather (Staggered)	66243-G93-B	А	637071-G93-E
AF0623S11GF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Glass Filled PTFE (Staggered)	UHMW-PE	66243-P43-B	А	637071-P43-E
AF0623S11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	66243-R43-B	А	637071-R43-E
ower Pump Mater.	ial - Stainless Stee	, (AF0623TXXXXXX)				
AF0623T11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	1756T11FF47	А	K1756T11FF00
AF0623T11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	1756T11KK47	А	K1756T11KK00
AF0623T11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	1756T11RK47	А	K1756T11RK00
AF0623T11SS47	17-4 Stainless Steel w/Hard Chrome	Virgin PTFE	Virgin PTFE	1756T11SS47	A	K1756T11SS00

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

*** High Capacity Solvent Cup w/Multiple Wave Spring

AFX Series 23:1 Ratio Pump Packages



			Packages			
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
Carbon Steel Packages						
SP0623S21FF47E32	5 Gallon Single Post Ram	AF0623S11FF47	RM051S-C-B	67485-1	Single Lip, Polyethylene/Urethane	Carbon Steel, Electroless Nickel Coating
SP0623S21RK47EC2	5 Gallon Single Post Ram	AF0623S11RK47	RM051S-C-B	66732	Double Lip, Nitrile	Carbon Steel, Electroless Nickel Coating
TP0623S21FF47E32	5 Gallon Two Post Ram	AF0623S11FF47	RM052S-C	67485-1	Single Lip, Polyethylene/Urethane	Carbon Steel, Electroless Nickel Coating
TP0623S51FF47AA2	55 Gallon Two Post Ram	AF0623S11FF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0623S51FF47AN2	55 Gallon Two Post Ram	AF0623S11FF47	RM552S-C	67195-2	Double Tube, EPR	Aluminum
TP0623S51HH47AA2	55 Gallon Two Post Ram	AF0623S11HH47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0623S51GF47AA2	55 Gallon Two Post Ram	AF0623S11GF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
Stainless Steel Package	e s					
SP0623T21KK47S22	5 Gallon Single Post Ram	AF0623T11KK47	RM051S-C-B	67536-1	Single Lip, Polyurethane	Stainless Steel
SP0623T21KK47TU2	5 Gallon Single Post Ram	AF0623T11KK47	RM051S-C-B	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0623T21KK47S22	5 Gallon Two Post Ram	AF0623T11KK47	RM052S-C	67536-1	Single Lip, Polyurethane	Stainless Steel
TP0623T21KK47TU2	5 Gallon Two Post Ram	AF0623T11KK47	RM052S-C	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0623T51KK47TK2	55 Gallon Two Post Ram	AF0623T11KK47	RM552S-C	67527-1	Double Tube, EPR	Screen - Aluminum w/PTFE Coating
TP0623T51KK47TL2	55 Gallon Two Post Ram	AF0623T11KK47	RM552S-C	67527-2	Double Tube, FDA Neoprene	Screen - Aluminum w/PTFE Coating





AF0828 Series Pumps

Materials: Caulking, Inks, Mastics,

Heavy Lubricants, Sealants



AFX

Series

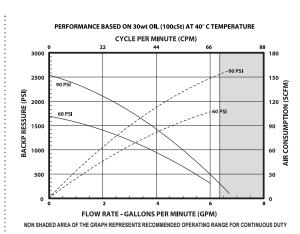


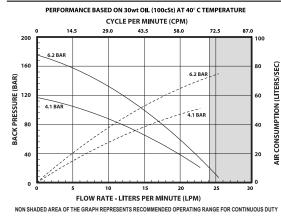
Pump Specifications Ratio 28:1 Stroke (double acting) 6" (15.24 cm) Material Inlet Flange Mount 1-1/4" NPT(F) Material Outlet Air Inlet (female) 3/4" NPT(F) 30 - 120 Air Inlet Pressure Range psi (bar) (2.1 - 8.3)Fluid Pressure Range psi (bar) 840 - 3360 (57.9 - 231.7) Max Cycles/Minute 70 Displacement/Cycle cu in (cm3) 20.0 (327.8) Cycles/gal (L) 11.55 (3.0) Flow @ 70 Cycles gpm (L/min) 6.1 (22.9) Noise Level @ 60 psi dBA 86.8 Weight* lb (kg) 140 (63.5) **Container Suitability** Remote Mounting *Estimated weight. Contact Technical Support for exact weight.

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

DIME	NSIONS			
A ¹ in ((mm)	53.46	(1357.88)	
B in (r	nm)	30.41	(772.29)	
C in (r	nm)	19.25	(488.95)	
1.5				(53.03

¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)





Pump Model*	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Pump Service Kit
Lower Pump Model M	aterial - Carbon Steel, Nick	el Plated			
AF0828S11FF47	17-4 Stainless Steel, w/Hard Chrome	UHMW-PE	UHMW-PE	67300-C4D	637348-C4D
AF0828S11PF17	17-4 Stainless Steel, w/Hard Chrome	Polyurethane	UHMW-PE	67300-J3D	637348-J3D

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

Recommended Accessories



(800) 495-0276 • arotechsuppot@irco.com • AROzone.com • Chop-Check Piston Pumps 21





			Packages			
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
TP0828S51FF47AA2	55 Gallon Two Post Ram	AF0828S11FF47	RM552S-C	66517-1	Double Lip, Polyurethane	Aluminum



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 m

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-C1R-B** Regulated 750 – 5,000 psi (52 – 345 bar) / 6,000 psi (414 bar) max. inlet / carbon steel

	-
62274	Air Line Oil
96916	Standard Air Motor Muffler
66333-B	Wet-Sol (1 Quart)
66353-1	Stabilizing Bracket
637489	Universal Air Motor Service Kit
637472	55 Gallon Two Post Ram Repair Kit (RM552S-X / RM552H-X)
67480	55 Gallon Two Post Ram Cross Over Kit
67501	55 Gallon Two Post Ram Low Level Cut-Off Kit
67503	55 Gallon Drum Hold Down Kit



AFX

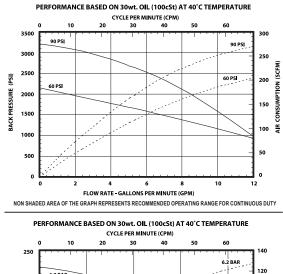
AF1230 Series Pumps

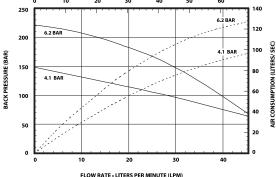




Materials: Caulking, Inks, Mastics, Heavy Lubricants,					
Pump Specifications					
Ratio	30:1				
Stroke (double acting)	6″ (15.24 cm)				
Material Inlet	Bolted Flange				
Material Outlet	1-1/2" NPT(F)				
Air Inlet (female)	3/4" NPT(F)				
Air Inlet Pressure Range psi (bar)	30 - 90 (2.1 - 6.2)				
Fluid Pressure Range psi (bar)	900 - 3250 (62.1 - 224.1)				
Max Cycles/Minute	70 -				
Displacement/Cycle cu in (cm3)	40.4 (662.0)				
Cycles/gal (L)	5.7 (1.5)				
Flow @ 70 Cycles gpm (L/min)	12.2 (46.3)				
Noise Level @ 60 psi dBA	93				
Weight lb (kg)	78 (35.42)				
Container Suitability	Remote Mounting				

DIMENSION	S				
A ¹ in (mm)	54.43 (1382.47)				
B in (mm)	31.34 (796.11)				
C in (mm)	19.94 (506.40)				
¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)					





NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model*	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit	
Lower Pump Model Material - Carbon Steel, Nickel Plated							
AF1230S11FF44	Carbon Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66236-C4E-B	В	637128-C44-B	
AF1230S11HF44	Carbon Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE	66236-F4E-B	В	637128-F44-B	
AF1230S11PF14	Carbon Steel w/Hard Chrome	Polyurethane	UHMW-PE	66236-J3E-B	В	637128-J34-B	

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





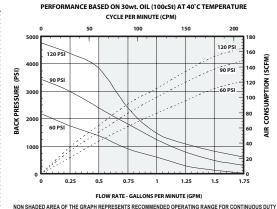
AF0443 Series Pumps

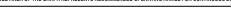


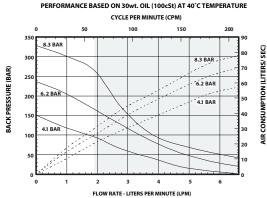


Materia		ılking, Inks, N avy Lubricant					
Pump Sp	ecific	ations					5000
Ratio			4	3:1		~	4000
Stroke (doub	ole acti	ng)	4	″ (10.2 cm)		IS4)	
Material Inle	t			ollower Plat Mounted	e	3ACK PRESSURE (PSI)	3000
Material Out	let		1	/2″ NPT(F)		BACK	2000
Air Inlet (fen	nale)		1	/2″ NPT(F)			1000
Air Inlet Pres	sure R	ange psi (ba	ar) 3	0-150 (2.1-	10.3)		
Fluid Pressu	re Rang	je psi (bar)		308-6549 90.2-451.7))		0
Max Cycles/	Minute	2	6	0		NO	N SHAD
Displacemen	t/Cycle	e cu in (cm3	3) 2	.85 (46.7)			
Cycles/gal (I	_)		8	1 (21.7)			
Flow @ 60 C	ycles g	pm (L/min) (.74 (2.8)			350
Noise Level	@ 60 p	si dBA	8	6.5			300
Weight* lb (kg)		4	4 (20)		(BAR)	25
Container Su	litabilit	у	5	Gallon (35	lbs)	SURE	200
*Estimated weight	. Contact	Technical Suppor	t for exac	t weight.		3ACK PRESSURE (BAR)	150
DIMENSIO	NS					BACK	10
	S	tandard	Ex	t. Tie Rods	_		
A ¹ in (mm)		(1069.09)		9 (1295.15)			50
B in (mm)	24.44	(620.83)	33.3	4 (846.89)			C

14.19 (360.48)







NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Materi	al - 300 Series Stair	less Steel				
AF0443T21GN47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE Glass Filled PTFE (Staggered)	UHMW-PE, Hydraulic Gland Type	67101-P43	С	637291-P43
AF0443T21GF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE Glass Filled PTFE (Staggered)	UHMW-PE	67101-P48	С	637291-P48
Lower Pump Materi	al -Carbon Steel, Nic	kel-Plated				
AF0443S21GN47	Carbon Steel	UHMW-PE Glass Filled PTFE (Staggered)	UHMW-PE, Hydraulic Gland Type	67100-P43	С	637290-P43
AF0443521GF47	Carbon Steel	UHMW-PE Glass Filled PTFE (Staggered)	UHMW-PE	67100-P48	С	637290-P48
AF0443S71GN47***	Carbon Steel	UHMW-PE Glass Filled PTFE (Staggered)	UHMW-PE, Hydraulic Gland Type	67100-P43	С	637290-P43

** Add "-1" to Model No. for Ball Valve Regulator *** With Extended Tie Rods

C in (mm)

Recommended Accessories

14.19 (360.48)

¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)



(Model shown w/ball valve regulator)

43:1 Ratio Pump Packages Series



			Packages			
Model No. Package Type		Pump Model	Cart/Lift Model	Follower	Follower Seal Description	Material
CL0443S21GN47E31	Cart Mount w/Lift	AF0443S21GN47-1	67075-B	67486-1	Single Lip, Polyethylene/Urethane	Carbon Steel, Electroless Nickel Coating
CL0443T21GN47S31	1GN47S31 Cart Mount w/Lift AF0443T21GN47-1 67075-B 67487-1		Single Lip, Polyethylene/Urethane	Stainless Steel		
Model No.	Package Type	Pump Model	Ram Model	Follower	Follower Seal Description	Material
SP0443S21GN47E52	5 Gallon Single Post Ram	AF0443S21GN47	RM051S-C-B	67486-3	Single Lip, Nitrile/Polyethylene	Carbon Steel, Electroless Nickel Coating
SP0443T21GN47S22	5 Gallon Single Post Ram	AF0443T21GN47	RM051S-C-B	67487-1	Single Lip, Urethane/Polyethylene	Stainless Steel
TP0443S21GN47E52	5 Gallon Two Post Ram	AF0443S21GN47	RM052S-C	67486-3	Single Lip, Nitrile/Polyethylene	Carbon Steel, Electroless Nickel Coating
TP0443T21GN47S22	5 Gallon Two Post Ram	AF0443T21GN47	RM052S-C	67487-1	Single Lip, Urethane/Polyethylene	Stainless Steel
TP0443S21GN47E32	5 Gallon Two Post Ram	AF0443S21GN47	RM052S-C	67486-1	Single Lip, Urethane/Polyethylene	Carbon Steel, Electroless Nickel Coating

Recommended Accessories



AFX

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

1/2" F (2) inlet 1/2" F (1) outlet / 6,000 psi (414 bar) max. / 200 micron 651420-70 for Carbon Steel 651422-70 for Stainless Steel

3/8" Fluid Pressure Regulators 651780-A3A-B Regulated 400 – 1,250 psi (28 – 86 bar) / 3,000 psi (207 bar) max. inlet / stainless steel 651780-B1A-B Regulated 400 – 1,250 psi (28 – 86 bar) / 3,000 psi (207 bar) max. inlet / carbon steel 651780-B1B-B Regulated 1,000 - 3,000 psi (69 - 345 bar) / 6,000 psi (414 bar) psi max. inlet / carbon steel 651780-B3R-B Regulated 400 – 5,000 psi (28 – 345 bar) / 6,000 psi (414 bar) max. inlet / stainless steel

62274	Air Line Oil
96916	Standard Air Motor Muffler
66333-B	Wet-Sol (1 Quart)
F35341-400	Filter
104317	Filter Element
637489	Universal Air Motor Service Kit
637465	5 Gallon Single Post Ram Repair Kit
637466	5 Gallon Two Post Ram Repair Kit
67481	5 Gallon Two Post Ram Cross Over Kit
67482	5 Gallon Single Post Ram Cross Over Kit
67500	5 Gallon Two Post Ram Low Level Cut-Off Kit
67502	5 Gallon Single Post Ram Low Level Cut-Off Kit



AF0844 Series Pumps





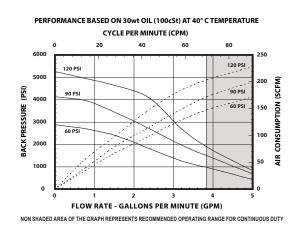
Heavy Lubricants, Se	
Pump Specifications	
Ratio	44:1
Stroke (double acting)	6″ (15.24 cm)
Material Inlet	Flange Mount
Material Outlet	1" NPT(F)
Air Inlet (female)	3/4" NPT(F)
Air Inlet Pressure Range psi (bar)	30 - 120 (2.1 - 8.3)
Fluid Pressure Range psi (bar)	1320 - 5964 (91.0 - 411.3)
Max Cycles/Minute	70
Displacement/Cycle cu in (cm3)	12.5 (204.8)
Cycles/gal (L)	18.5 (4.8)
Flow @ 70 Cycles gpm (L/min)	3.8 (14.3)
Noise Level @ 60 psi dBA	86.8
Weight* lb (kg)	89 (40.4)
Container Suitability	Remote Mounting

Materials: Caulking, Inks, Mastics,

*Estimated weight. Contact Technical Support for exact weight.

85.32)
).8)
0.49)

¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)



PERFORMANCE BASED ON 30wt OIL (100cSt) AT 40° C TEMPERATURE CYCLE PER MINUTE (CPM) 20 40 60 80 400 120 350 AIR CONSUMPTION (LITERS/SEC) 8.3 BAR 8.3 BAF 100 BACK PRESSURE (BAR) 300 6.2 BAR 80 6.2 BAR 250 4.1 BA 200 60 4.1 BAR 150 40 100 20 50 0 5 10 15 0 FLOW RATE - LITERS PER MINUTE (LPM)

NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Mod	del Material - Carb	on Steel, Nickel-Plat	ed			
AF0844S11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66243-C4D-B	А	637071-C43-B
AF0844S11HH47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE/Leather (Staggered)	66243-G4D-B	А	637071-G43-В
AF0844S11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	66243-R4D-B	А	637071-R43-В
Lower Pump Mod	del Material - Stair	less Steel,(AF08441	xxxxxx)			
AF0844T11FF4G	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	1756T11FF4G	А	K1756T11FF00
AF0844T11KK4G	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	1756T11KK4G	А	K1756T11KK00
AF0844T11RK4G	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	1756T11RK4G	А	K1756T11RK00
AF0844T11SS4G	17-4 Stainless Steel w/Hard Chrome	Virgin PTFE	Virgin PTFE	1756T11SS4G	А	K1756T11SS00

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

AFX Series 44:1 Ratio Pump Packages



Packages						
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
Carbon Steel Packages						
TP0844S21FF47E32	5 Gallon Two Post Ram	AF0844S11FF47	RM052S-C	67485-1	Single Lip, Polyurethane/Urethane	Carbon Steel, Electroless Nickel Coating
TP0844S51FF47AA2	55 Gallon Two Post Ram	AF0844S11FF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0844S51FF47AN2	55 Gallon Two Post Ram	AF0844S11FF47	RM552S-C	67195-2	Double Tube, EPR	Aluminum
TP0844S51HH47AA2	55 Gallon Two Post Ram	AF0844S11HH47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0844S51HH47AC2	55 Gallon Two Post Ram	AF0844S11HH47	RM552S-C	66516	Double Lip, Nitrile	Aluminum
TP0844S51RK47AA2	55 Gallon Two Post Ram	AF0844S11RK47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0844S51RK47AC2	55 Gallon Two Post Ram	AF0844S11RK47	RM552S-C	66516	Double Lip, Nitrile	Aluminum
TP0844S51RK47TA2	55 Gallon Two Post Ram	AF0844S11RK47	RM552S-C	66516-6	Double Lip, Polyurethane	Alumium w/PTFE Coating
HD0844S51FF47AN2	55 Gallon Heavy Duty Two Post Ram	AF0844S11FF47	RM552H-C	67195-2	Double Tube, EPR	Aluminum
Stainless Steel Packages	5					
TP0844T21KK4GS22	5 Gallon Two Post Ram	AF0844T11KK4G	RM052S-C	67536-1	Single Lip, Polyurethane	Stainless Steel
TP0844T21KK4GTU2	5 Gallon Two Post Ram	AF0844T11KK4G	RM052S-C	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0844T51KK4GTK2	55 Gallon Two Post Ram	AF0844T11KK4G	RM552S-C	67527-1	Double Tube, EPR	Screen - Aluminum w/PTFE Coating
TP0844T51KK4GTL2	55 Gallon Two Post Ram	AF0844T11KK4G	RM552S-C	67527-2	Double Tube, FDA Neoprene	Screen - Aluminum w/PTFE Coating





AF1044 Series Pumps

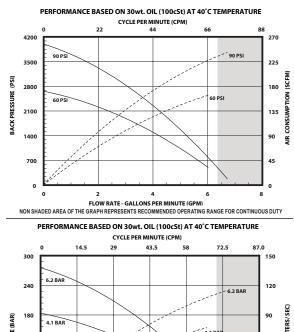




Heavy Lubricants, Se	ealants
Pump Specifications	
Ratio	44:1
Stroke (double acting)	6″ (15.24 cm)
Material Inlet	Flange Mount
Material Outlet	1-1/4" NPT(F)
Air Inlet (female)	3/4" NPT(F)
Air Inlet Pressure Range psi (bar)	30 - 90 (2.1 - 6.2)
Fluid Pressure Range psi (bar)	1320 - 3960 (91.0 - 273.1)
Max Cycles/Minute	70
Displacement/Cycle cu in (cm3)	20.0 (327.8)
Cycles/gal (L)	11.5 (3.0)
Flow @ 70 Cycles gpm (L/min)	6.1 (22.9)
Noise Level @ 60 psi dBA	89.8
Weight lb (kg)	64 (29.06)
Container Suitability	Remote Mounting

Materials: Caulking, Inks, Mastics,

DIMENSIONS						
A ¹ in (mm)	53.43 (1357.12)	_				
B in (mm)	30.38 (771.53)	-				
C in (mm)	19.25 (488.95)	-				
¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)						



CYCLE PER MINUTE (CPM) 0 14.5 29 43.5 58 72.5 87.0 150 10 6.2 BAR 10 6.2 BA

(Model shown w/ball valve regulator)

Pump Model*	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit	
Lower Pump Model Material - Carbon Steel, Nickel Plated							
AF1044S11FF47	17-4 Stainless Steel, w/Hard Chrome	UHMW-PE	UHMW-PE	67300-C4D	В	637348-C4D	
AF1044S11PF17	17-4 Stainless Steel, w/Hard Chrome	Polyurethane	UHMW-PE	67300-J3D	В	637348-J3D	
	w/Hard Chrome						

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





44:1 Ratio Pump Packages



Packages						
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
TP1044S51FF47AM2	55 Gallon Two Post Ram	AF1044S11FF47	RM552S-C	67196-1	Double Tube, Neoprene	Aluminum
TP1044S51FF47AC2	55 Gallon Two Post Ram	AF1044S11FF47	RM552S-C	66517	Doubel Lip, Nitrile	Aluminum
HD1044S51FF47AN2	55 Gallon Heavy Duty Two Post Ram	AF1044S11FF47	RM552H-C	67196-2	Double Tube, EPR	Aluminum

Recommended Accessories

Extrusion Guns



 ${\bf 651533}$ For low- to medium-viscosity fluids 1/4'' NPS (M) inlet

651500 For material over 200,000 cP 3/8" (F) 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-C1R-B Regulated 750 – 5,000 psi (52 – 345 bar) / 6,000 psi (414 bar) max. inlet / carbon steel

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	
637472	55 Gallon Two Post Ram Repair Kit (RM552S-X / RM552H-X)	
67480	55 Gallon Two Post Ram Cross Over Kit	
67501	55 Gallon Two Post Ram Low Level Cutt-Off Kit	
67503	55 Gallon Drum Hold Down Kit	
67504	Heavy Duty (HD) 55 Gallon Drum Hold Down Kit (used with RM552H-C)	



AFX Series AF0646 Series Pumps

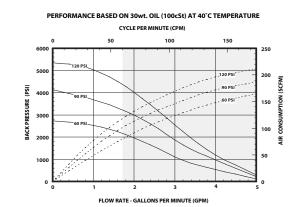




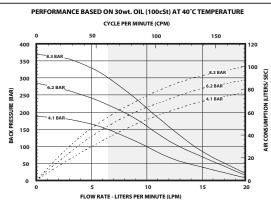
Marker College	
Materials: Caulking, Inks, Masti Heavy Lubricants, Se	
, ,	didills
Pump Specifications	
Ratio	46:1
Stroke (double acting)	6" (15.24 cm)
Material Inlet	Flange Mount
Material Outlet	1" NPT(F)
Air Inlet (female)	1/2" NPT(F)
Air Inlet Pressure Range psi (bar)	30-150 (2.1 -10.3)
Fluid Pressure Range psi (bar)	1380 - 7485 (95.1-516.2)
Max Cycles/Minute	60
Displacement/Cycle cu in (cm3)	6.97 (114)
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.

DIMENSIONS	
A ¹ in (mm)	54.01 (1371.83)
B in (mm)	30.74 (780.69)
C in (mm)	17.74 (450.49)



NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY



NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit
Lower Pump Ma	aterial - Carbon Ste	eel, Nickel-Plated				
AF0646S11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	66266-C43-B	А	637074-C43-B
AF0646S11GF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Glass Filled PTFE (Staggered)	UHMW-PE	66266-P43-B	А	637074-P43-B
AF0646S11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	66266-343-B	А	637074-343-В
AF0646S11HH47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE/Leather (Staggered)	UHMW-PE/Leather (Staggered)	66266-G43-B	А	637074-G43-B
AF0646S11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	66266-R43-B	А	637074-R43-B
Lower Pump Ma	aterial - Stainless S	teel, (AF0646TXXXX	(XX)			
AF0646T11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	1380T11FF47	А	K1380T11FF00
AF0646T11KK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE	Glass Filled PTFE	1380T11KK47	А	K1380T11KK00
AF0646T11RK47	17-4 Stainless Steel w/Hard Chrome	Glass Filled PTFE/ UHMW-PE (Staggered)	Glass Filled PTFE	1380T11RK47	А	K1380T11RK00
AF0646T11SS47	17-4 Stainless Steel w/Hard Chrome	Virgin PTFE	Virgin PTFE	1380T11SS47	А	K1380T115500

(Model shown w/ball valve regulator)

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



46:1 Ratio Pump Packages



			Tuckages			
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Follower Plate Material
Carbon Steel Packages						
SP0646S21FF47E32	5 Gallon Single Post Ram	AF0646S11FF47	RM051S-C-B	67485-1	Single Lip, Polyurethane/Urethane	Carbon Steel, Electroless Nickel Coating
TP0646S21FF47E32	5 Gallon Two Post Ram	AF0646S11FF47	RM052S-C	67485-1	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 Coatin
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/Fitting
FM0646S11GF47001	Floor Mount	AF0646S11GF47-1	65138	67073	628088-7	628089-6
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Follower Plate Material
Stainless Steel Package	25					
SP0646T21KK47S22	5 Gallon Single Post Ram	AF0646T11KK47	RM051S-C-B	67536-1	Single Lip, Polyurethane	Stainless Steel
SP0646T21KK47TU2	5 Gallon Single Post Ram	AF0646T11KK47	RM051S-C-B	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0646T21KK47S22	5 Gallon Two Post Ram	AF0646T11KK47	RM052S-C	67536-1	Single Lip, Polyurethane	Stainless Steel
TP0646T21KK47TU2	5 Gallon Two Post Ram	AF0646T11KK47	RM052S-C	67532-1	Single Tube, EPR	Aluminum w/PTFE Coating
TP0646T51KK47TK2	55 Gallon Two Post Ram	AF0646T11KK47	RM552S-C	67527-1	Double Tube, EPR	Screen - Aluminum w/PTFE Coating
TP0646T51KK47TL2	55 Gallon Two Post Ram	AF0646T11KK47	RM552S-C	67527-2	Double Tube, FDA Neoprene	Screen - Aluminum w/PTFE Coating





AFX Series

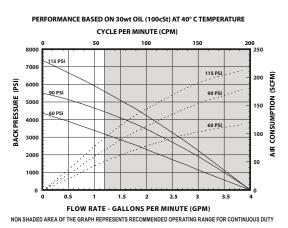
AF0665 Series Pumps

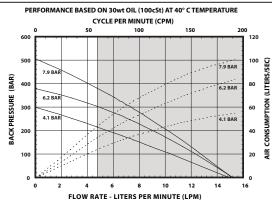




Materials: Caulking, Inks, Mast Heavy Lubricants, S			
Pump Specifications			
Ratio	65:1		
Stroke (double acting)	6″ (15.24 cm)		
Material Inlet	Flange Mount		
Material Outlet	3/4" NPT(F)		
Air Inlet (female)	1/2" NPT(F)		
Air Inlet Pressure Range psi (bar)	30-115 (2.1-7.9)		
Fluid Pressure Range psi (bar)	1950 - 7475 (134.5 - 515.5)		
Max Cycles/Minute	60		
Displacement/Cycle cu in (cm3)	5.2 (84.6)		
Cycles/gal (L)	44.8 (11.9)		
Flow @ 60 Cycles gpm (L/min)	1.3 (5.1)		
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.			

DIMENSIONS	
A ¹ in (mm)	54.01 (1371.83)
B in (mm)	30.74 (780.69)
C in (mm)	17.74 (450.49)
For models without ball va	alve regulator subtract 2.08 in (52.83 mm





NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Plunger Upper Lower Lower Pump Lower Pump Pump Service Model** Packings Packings Model Material **Mounting Footprint** Kit 17-4 Stainless Steel А AF0665S11FF47 UHMW-PE UHMW-PE 67348-C43 637464-C43 w/Hard Chrome UHMW-PE/Mineral Filled 17-4 Stainless Steel А AF0665S11GF47 UHMW-PE 67348-P43 637464-P43 PTFE (Staggered) w/Hard Chrome

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

Recommended Accessories



(Model shown w/ball valve regulator)





SPX Series Single Post Ram

5





TPX Series Two Post Ram

			Packages			
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material
SP0665S21FF47A72	5 Gallon Single Post Ram	AF0665S11FF47	RM051S-C-B	67347-2	Single Tube, EPR	Aluminum
SP0665S21FF47A82	5 Gallon Single Post Ram	AF0665S11FF47	RM051S-C-B	67347-1	Single Tube, Neoprene	Aluminum
SP0665S21FF47E32	5 Gallon Single Post Ram	AF0665S11FF47	RM051S-C-B	67485-1	Single Lip, Polyurethane/Urethane	Carbon Steel, Electroless Nickel Coating
SP0665S21FF47EA2	5 Gallon Single Post Ram	AF0665S11FF47	RM051S-C-B	66732-1	Double Lip, Polyurethane	Carbon Steel, Electroless Nickel Coating
TP0665S21FF47E32	5 Gallon Two Post Ram	AF0665S11FF47	RM052S-C	67485-1	Single Lip, Polyurethane/Urethane	Carbon Steel, Electroless Nickel Coating
TP0665S21FF47EA2	5 Gallon Two Post Ram	AF0665S11FF47	RM052S-C	66732-1	Double Lip, Polyurethane	Carbon Steel, Electroless Nickel Coating
TP0665S21FF47A72	5 Gallon Two Post Ram	AF0665S11FF47	RM052S-C	67347-2	Single Tube, EPR	Aluminum
TP0665S21FF47A82	5 Gallon Two Post Ram	AF0665S11FF47	RM052S-C	67347-1	Single Tube, Neoprene	Aluminum
TP0665S51FF47AA2	55 Gallon Two Post Ram	AF0665S11FF47	RM552S-C	66516-1	Double Lip, Polyurethane	Aluminum
TP0665S51FF47AC2	55 Gallon Two Post Ram	AF0665S11FF47	RM552S-C	66516	Double Lip, Nitrile	Aluminum
TP0665S51FF47AM2	55 Gallon Two Post Ram	AF0665S11FF47	RM552S-C	67195-1	Double Tube, Neoprene	Aluminum
TP0665S51FF47AN2	55 Gallon Two Post Ram	AF0665S11FF47	RM552S-C	67195-2	Double Tube, EPR	Aluminum
TP0665S51GF47AN2	55 Gallon Two Post Ram	AF0665S11GF47	RM552S-C	67195-2	Double Tube, EPR	Aluminum

Recommended Accessories

Swivel



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)



 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

 1/2" F (2) inlet 1/2" F (1) outlet / 6,000 psi (414 bar)i max. / 200 micron

 651420-70 for Carbon Steel

 63/8" Fluid Pressure Regulators

 671700 A34 D2 A24 D2 Hold 00 1 2500 Fild20 A04 hold (400 1 250 Fild20 A04 hold (400 hold (40

651780-A3A-B Regulated 400 – 1,250 psi (28 – 86 bar) / 3,000 psi (207 bar) max. inlet / stainless steel 651780-B1A-B Regulated 400 – 1,250 psi (28 – 86 bar) / 3,000 psi (207 bar) max. inlet / carbon steel 651780-B1B-B Regulated 1,000 – 3,000 psi (69 – 345 bar) / 6,000 psi (414 bar) max. inlet / carbon steel 651780-B3R-B Regulated 400 – 5,000 psi (28 – 345 bar) / 6,000 psi (414 bar) max. inlet / stainless steel

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
637472	55 Gallon Two Post Ram Repair Kit (RM552S-X / RM552H-X)
67480	55 Gallon Two Post Ram Cross Over Kit
67481	5 Gallon Two Post Ram Cross Over Kit
67482	5 Gallon Single Post Ram Cross Over Kit
67500	5 Gallon Two Post Ram Low Level Cut-Off Kit
67501	55 Gallon Two Post Ram Low Level Cut-Off Kit
67502	5 Gallon Single Post Ram Low Level Cut-Off Kit
67503	55 Gallon Drum Hold Down Kit



AF1265 Series Pumps





Heavy Lubricants, S	ealants
Pump Specifications	
Ratio	65:1
Stroke (double acting)	6" (15.24 cm)
Material Inlet	Flange Mount
Material Outlet	1-1/4" NPT(F)
Air Inlet (female)	3/4" NPT(F)
Air Inlet Pressure Range psi (bar)	30 - 90 (2.1 - 6.2)
Fluid Pressure Range psi (bar)	1950 - 5850 (134.5 - 403.4)
Max Cycles/Minute	70
Displacement/Cycle cu in (cm3)	20.0 (327.8)
Cycles/gal (L)	11.5 (3.0)
Flow @ 70 Cycles gpm (L/min)	6.1 (22.9)
Noise Level @ 60 psi dBA	93
Weight* lb (kg)	165 (74.8)
Container Suitability	Remote Mounting

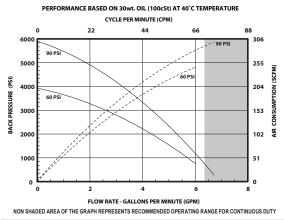
Materials: Caulking, Inks, Mastics,

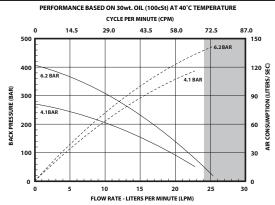
Home Lubricante Coalante

*Estimated weight. Contact Technical Support for exact weight.

DIMENSIONS			
53.46 (1357.88)			
30.38 (771.65)			
19.25 (488.95)			

¹ For models without ball valve regulator subtract 2.08 in (52.83 mm)





NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE FOR CONTINUOUS DUTY

Pump Model**	Plunger Material	Upper Packings	Lower Packings	Lower Pump Model	Lower Pump Mounting Footprint	Pump Service Kit		
Lower Pump Model Material - Carbon Steel, Nickel Plated								
AF1265S11PF17	17-4 Stainless Steel w/Hard Chrome	Polyurethane	UHMW-PE	67300-J3D	В	637348-J3D		
AF1265S11FF47	17-4 Stainless Steel w/Hard Chrome	UHMW-PE	UHMW-PE	67300-C4D	В	637348-C4D		

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





65:1 Ratio Pump Packages



Packages									
Model No.	Package Type	Pump Model	Ram/Lift Model	Follower	Follower Seal Description	Material			
TP1265S51PF17AA2	55 Gallon Two Post Ram	AF1265S11PF17	RM552S-C	66517-1	Double Lip, Polyurethane	Aluminum			
TP1265S51FF47AN2	55 Gallon Two Post Ram	AF1265S11FF47	RM552S-C	67196-2	Double Tube, EPR	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-C1R-B** Regulated 750 – 5,000 psi (52 – 345 bar) / 6,000 psi (414 bar) max. inlet / carbon steel

	-	
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	
637472	55 Gallon Two Post Ram Repair Kit (RM552S-X / RM552H-X)	
67480	55 Gallon Two Post Ram Cross Over Kit	
67501	55 Gallon Two Post Ram Low Level Cut-Off Kit	
67503	55 Gallon Drum Hold Down Kit	

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