

▼ Shown top to bottom: HF-101, HF-100, HF-102, LX-101, A65, and FZ1055



Genuine Enerpac System Components

Hydraulic Oil		Highviscosity index ensures maximum lubricity over a wide range of operation temperatures.
Contents	Model Number	
1 Quart	HF-100	
1 Gallon	HF-101	
5 Gallons*	HF-102	
55 Gallons	HF-104	
1 Gallon**	LX-101	

* Packed in two 2½ gallon cans.

** Hand pump oil.

HF Oil

- Specially formulated for power pumps
 - maximum volumetric efficiency
 - maximum heat transfer
 - prevents cavitation
 - anti-sludge, anti-rust, anti-foam additives
- Maximum film protective lubricity
 - anti-oxidation additives

LX Hand Pump Oil

- Specially formulated for hand pumps
 - anti-sludge, anti-rust additives
- Reduced handle effort over HF oil
 - good low temperature performance
- Not for use in power pumps

▼ Oil Specifications Chart

	LX Oil	HF Oil
ISO Grade	15	32
Viscosity Index	101 min	100 min
Viscosity at 210 °F	3.2/3.7 S.U.S.	42/45 S.U.S.
Viscosity at 100 °F	13.5/16.5 S.U.S	150/165 S.U.S.
Viscosity at 0 °F	<2100 S.U.S.	<12000 S.U.S.
API Gravity	31.0/35.0	31.0/33.0
Flash, C.O.C. °F	370	375
Pour Point, °F	-30	-25
Paraffinic Base Color	Yellow	Blue

NOTE: SAE grades do not apply to hydraulic oil.

Manifolds

Description		Model No.	Dimensions (in)
7" Long Manifold with 7 female ports.		A-64	
14" Long Manifold that allows direct mounting of control valves to the manifold. 7 female ports.		A-65	
6-Port Hexagon Manifold Plugs furnished for all ports 3/8"-18 NPTF.		A-66	
Premounted Manifold Functions as split-flow valve to control 2 to 4 single-acting cylinders simultaneously. All ports 3/8"-18 NPTF.		AM-21 AM-41	

Hydraulic Oil, Manifolds and Fittings

Recommended Tubing for Hand Plumbing Applications

Enerpac does not supply high-pressure pipe or tubing but recommends the use of cold drawn steel tubing instead of regular pipe in the following dimensions:

In place of 1/4" pipe use 3/8" tubing with a 0.065" minimum wall thickness.

For 3/8" pipe use schedule 80 as a minimum or 1/2" with a 0.095" minimum wall thickness.

For 1/2" pipe use schedule 80 as a minimum or 3/4" tubing with a 0.135" minimum wall thickness.

All tubing wall thicknesses based on a 55,000 psi minimum tensile strength.

**A, AM
FZ,
HF, LX
Series**



Description		Model Number	Dimensions (in)				Diagram
			A	B	C	D	
Street Elbow From: 3/8"-NPTF Male To: 3/8"-NPTF Female		FZ-1616	.94	1.30	3/8"-18 NPTF	3/8"-18 NPTF	
Reducing Connector From: 3/8"-NPTF Female To: 1/4"-NPTF Female		FZ-1615	1.13	1.00	3/8"-18 NPTF	1/4"-18 NPTF	
From: 1/2"-NPTF Female To: 3/8"-NPTF Female		FZ-1625	1.88	1.14	1/2"-18 NPTF	3/8"-18 NPTF	
Hex Nipple From: 1/4"-NPTF Male To: 1/4"-NPTF Male		FZ-1608	1.50	.63	1/4"-18 NPTF	1/4"-18 NPTF	
From: 3/8"-NPTF Male To: 3/8"-NPTF Male		FZ-1617	1.47	.75	3/8"-18 NPTF	3/8"-18 NPTF	
Coupling From: 3/8"-NPTF Female To: 3/8"-NPTF Female		FZ-1614 FZ-1605	1.13 1.13	1.00 .75	3/8"-18 NPTF 1/4"-18 NPTF	3/8"-18 NPTF 1/4"-18 NPTF	
Cross From: 3/8"-NPTF Female To: 3/8"-NPTF Female		FZ-1613	1.77	1.00	3/8"-18 NPTF	-	
Tee From: 3/8"-NPTF Female To: 3/8"-NPTF Female		FZ-1612	1.77	1.00	3/8"-18 NPTF	-	
Elbow From: 3/8"-NPTF Female To: 3/8"-NPTF Female		FZ-1610	1.38	.88	3/8"-18 NPTF	-	
Bushing From: 3/8"-NPTF Male To: 1/4"-NPTF Female		FZ-1630	.75	.75	1/4"-18 NPTF	3/8"-18 NPTF	
Swivel Fitting From: 3/8"-NPTF Male To: 3/8"-NPTF Female		FZ-1660	1.56	.88	3/8"-18 NPTF	3/8"-18 NPTF	
Adaptor Female	Male		FZ-1055	1.75	.94	1/4"-18 NPTF	3/8"-18 NPTF
3/8"-18 NPTF	1/4"-18 NPTF					1/4"-18 NPTF	1/2"-14 NPTF
1/2"-14 NPTF	3/8"-18 NPTF					3/8"-18 NPTF	1/2"-14 NPTF