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Versatile type of lubrication, providing a continuous flow of liquid, etc.

CUSTOM LUBRICATION SYSTEMS FORM51



Ordering information for circulating systems. Included on the form is information about lubricant, pump dispenser type, heat exchanger and environment, etc.

BULLS-EYE SIGHT FEED VALVES - UNIVERSAL PATTERN52



Allows for visual observation of the liquid stream from a distance, with the volume of flow controlled by an adjustable needle valve

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These types of liquid filter have a 40 micron filter that can be cleaned or replacement with ease.

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Use of these vent plugs help relieve pressure or vacuum.

WINDOW FLOW SIGHTS FOR FULL FLOW53



Primarily these are used in low pressure oil lines. They have no restriction on the inside.

Circulating Lubrication Systems

CIRCULATING OIL SYSTEMS are the most versatile type of lubrication system available. They are often used on large expensive bearings, or when it is absolutely essential to provide continuous operation under adverse conditions.

A typical pump dispenser which provides a continuous flow of liquid to the bearings is shown. By proper direction of liquid flow, this system can be used for heavily loaded bearings operating at high speeds and temperatures. This type of system is good in extremely dirty and corrosive atmospheres. The liquid is normally returned to the pump dispenser by gravity. Adequately sized return lines are necessary with vents to provide a free flow of return liquid back to the reservoir. Any restricted flow at this point could cause high liquid level in the bearing housing, creating heat, and damaging the bearings. Flow sights are often used to monitor the return liquid flow. There are

also a wide variety of sight feed valves and control valves available to adjust and regulate the liquid flow into the bearing.

Several of the common options available for the pump dispensers are dual pumps for a back up system, dual filters available in micron ratings down to 5 microns, heat exchangers, either air cooled or water cooled, permitting heat removal rates extending into the hundreds of thousands of BTU/HR. Heaters can also be provided to maintain a certain liquid temperature, and can be utilized for cold weather start ups. Pressure regulating devices, along with pressure switches, low level switches, and filter condition alarms are also available.

These systems can be found as simple off the shelf devices or can be specifically designed and engineered to actual customer needs.

SPECIFICATIONS:

Tank Removable Top Cover for Cleaning

Operating
Temperature
Viscosity
By-Pass
By-Pass
Adjustable
Set at 35 P.S.I.

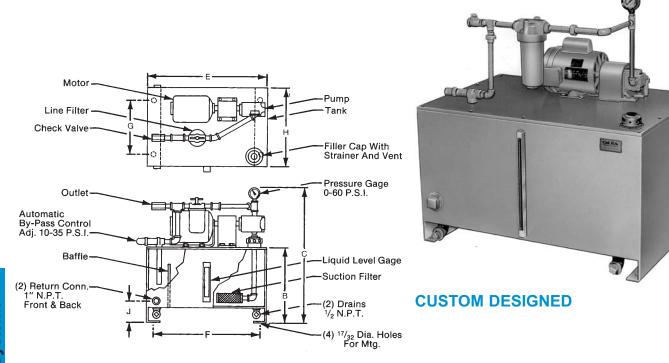
• Line Filter Self-Cleaning 88 Micron

Suction Filter
Tank
Pump
Piping
Check Valve

100 Mesh
Welded Steel
Cast Iron
Iron
Brass

When Ordering Specify:

- Model Number
- Fill in information on next page.



Model			Open Motor		Outlet								L		
Number	G.P.M.	Capacity	H.P.	Volts &Frequency	R.P.M.	Phase	N.P.T.	В	С	Е	F	G	Н	J	
B-1473-1	1	5 GAL.	1/4	115V. 60 Hz.	1750	1	1/4	11 ¹ / ₂	21 ¹ / ₂	16	14 ¹ / ₄	7	10	4	*
B-1474-1	2	10 GAL.	1/3	115V. 60 Hz.	1750	1	3/8	15	30	20	18 ¹ / ₄	9	12	5	*
B-1475-1	3	10 GAL.	1/3	115V. 60 Hz.	1750	1	1/2	15	25	20	18 ¹ / ₄	9	12	5	*
B-1476-1	4	15 GAL.	1/2	115V. 60 Hz.	1750	1	1/2	15	26	24	21 ³ / ₄	12 ³ / ₄	15	41/2	*
B-1477-1	5	15 GAL.	1	230/460V. 60 Hz.	1750	3	3/4	15	37	24	21 ³ / ₄	12 ³ / ₄	15	4 ¹ / ₂	*
B-1478-1	9	30 GAL.	2	230/460V. 60 Hz.	1750	3	3/4	27	43	24	21 ³ / ₄	12 ³ / ₄	15	41/2	*
B-1479-1	11	30 GAL.	3	230/460V. 60 Hz.	1750	3	3/4	27	43	24	213/4	12 ³ / ₄	15	4 ¹ / ₂	*

^{*} Special - Please Consult Factory

Specification Sheet

Circulating Lubrication System Specifications Sheet

COMPANY:									
ADDRESS:									
CITY: STATE: ZIP:									
CONTACT PERSON: PHONE					ONE:		DATE DUE:		
FAX: E-MAIL:									
LUBRICANT INFORMATION									
LIQUID TYPE	AND NAME:			VISCOSITY @ 100° F. SSU:					
GALLONS PE	R MINUTE:			SYSTEM PR					
FILTRATION	FILTRATION REQUIREMENTS- 88 MICRONS STANDARD:								
PUMP DISPENSER INFORMATION									
RESERVOIR	CAPACITY (GA	AL.):			МОТОГ	R TYPE			
TEMPERATU	· · · · · · · · · · · · · · · · · · ·	YES	NO 🗌	OPEN/DRIP P	ROOF EX	P. PROOF	TENV/TEFC		
TEMPERATU	RE SWITCH	YES	ΝО □	OTHER SPE	CIFICATIONS				
PRESSURE S	WITCH	YES	№ 🗌		AVAILABLE	CURRENT			
LOW LEVEL	SWITCH	YES	NO 🗌	VOLTAGE	FRE	QUENCY	PHASE		
FLOW SWITC	Н	YES	ио □						
NEEDLE VAL	NEEDLE VALVES YES NO								
DIFFERENTIA	AL PRESSURE	SWITCH ACRO	OSS FILTER	(S)	YES 🗌	NO			
DIFFERENTIA	AL PRESSURE	GAGE(S) ACR	OSS FILTER	R(S)	YES 🗌	NO			
PUMP/MOTO	R:	SINGLE _	DUAL 🗌	SPECIAL:					
LINE FILTER:		SINGLE	DUAL 🗌						
HEAT EXCHA	NGER:	SINGLE _	DUAL 🗌						
		HEAT EX	CHANGE	ER INFOF	RMATION				
HEAT EXCHA	NGER TO REM	MOVE:	B.T.U.'s/l	HOUR					
		R COOLED		AIR COOLED					
° F-LIQUID IN °	F-LIQUID OUT	° F - H ₂ O MAX.	H ₂ O PSI	H ₂ O GPM	° F-LIQUID IN	° F-LIQUID OUT	° F - AIR MAX		
				<u> </u>			Ī		
TEMPERATUR	RE CONTROLS	S: AUTOMA	TIC	MANUAL	FURNI	SHED BY CU	STOMER		
		IMMERSIC	N HEAT	ER INFO	RMATION				
MIN. LIQUID T	EMP OPER. L	IQUID TEMP I	HEAT UP TII	ME \	WATTS	VOLTAGE & F	REQUENCY		
		+			-				
TEMPERATUR	RE CONTROLS	S: AUTOMA	TIC	MANUAL [FURNI	SHED BY CUS	STOMER		
	INSTALLATION ENVIRONMENT INFORMATION								
INDOOR AMBIENT TEMP. ALT				TITUDE NOTE ALL SIZE LIMITATIONS					
OUTDOOR [
1		MENT TO BE L	.UBRICATEI	D, INCLUDIN	IG NO. POIN	TS AND ELE	VATIONS AND		
RETURN LINE	E ELEVATION.								

Accessories

UNIVERSAL PATTERN BULLS-EYE SIGHT FEED VALVES

allow visual observation of the liquid stream from a distance, with the volume of flow controlled by an adjustable needle valve. The Bulls-Eye sight feed valve has excellent flow characteristics with low pressure drop.

These units are principally used on gravity or pressure oiling systems of larger machinery for lubrication where considerable capacities of liquid must be dispensed.

Large sight glass windows on both sides of the valve can easily be removed for cleaning or replacement without disconnecting the valve. Threaded retaining rings on both sides secure the glass with full circumferential support for excellent sight pressure integrity.

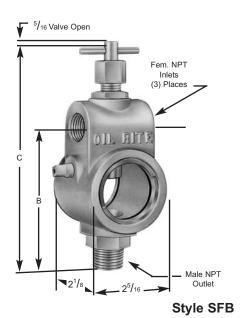
SPECIFICATIONS:

 Pressure 125 P.S.I. Inlet to Orifice 55 P.S.I. Sight Chamber Max. with Vent Sealed

Temperature
 Valve Body
 Needle Ass'y
 Z25° F. Maximum
 Aluminum Alloy
 Steel, Plated

• Sight Glass 1½ Dia.

Seals Buna-NPort 1/4 I.D.



When Ordering Specify:

Catalog Number

Catalog Number	Body Style	Inlet N.P.T.	Outlet N.P.T.	В	С
B-2501-1	T-Handle	1/4	1/4	4	6 ¹¹ /32
B-2501-2		3/8	3/8		
B-2501-3		1/2	1/2		
B-2501-4		1/2	3/4		
B-2501-5		1/4	1/4		
B-2501-6	Tamper- proof	3/8	3/8	4	611/32
B-2501-7		1/2	1/2		
B-2501-8		1/2	3/4		

CONSTANT FLOW CONTROL VALVES are used in low pressure lubricating systems. They do not require frequent adjustment usually needed on ordinary valves.

They have a fixed flow rate and can be equipped with orifices producing a specific flow rate ranging from ounces per minute to gallon per minute. The flow rate selected will remain constant within plus or minus 20% for 3 to 9 ounces per minute, and within plus or minus 10% for 1 pint to 1 gallon per minute. This accuracy will be retained with varying pressures, ranging from 15 PSI minimum to 125 PSI maximum, and with any oil having a viscosity of 400 SSU minimum to 750 SSU maximum.

SPECIFICATIONS:

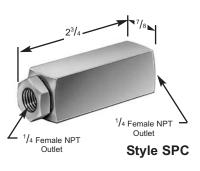
• Flow Rate Non Adjustable (See Table)

Pressure
 15 P.S.Í. Min.
 125 P.S.I. Max.

Oil Viscosity
 Temperature
 Between 400 and 750 S.S.U.
 225° F. Maximum

Valve Body
 Seals
 Valve Body
 Buna-N

Seals Buna-Piston Brass



When Ordering Specify:

Catalog Number

	Catalog Number	Flow Rate Per Min.	Flow Tolerance	Orifice Size	
*	B-1844-1	3 OZ.		.024	
*	B-1844-2	6 OZ.	± 20%	.033	
*	B-1844-3	9 OZ.	1 20 /0	.038	
*	B-1844-4	1 PT.		.047	
*	B-1844-5	1QT.		.067	
*	B-1844-6	¹ / ₂ GAL.	± 10%	.093	
*	B-1844-7	3/4 GAL.	1070	.106	
*	B-1844-9	1 GAL.		.111	

^{*} Special - Please Consult Factory

WINDOW FLOW SIGHTS FOR FULL FLOW are primarily used in low pressure oil lines. There are no restrictions on the inside, therefore, no pressure drop, resulting in the full flow of liquid equal to respective pipe size. They can be installed in any position, either horizontally, vertically, or at an angle, and are offered in various pipe sizes.

SPECIFICATIONS:

• Pressure Temperature

• Sight

 Body Seals

125 P.S.I. Maximum 225° F. Maximum Glass Pressure **Tight Solid Gaskets**

Steel. Plated Buna-N



When Ordering Specify:

Catalog Number

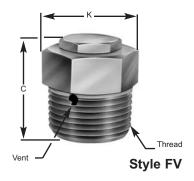
Catalog Number	N.P.T.	Α	В	С	D	K Hex
A-715-1	¹ / ₈ Fem.	11/32	1 ¹ / ₁₆	21/4	9/16	¹³ / ₁₆
A-715-2	¹ / ₄ Fem.	⁷ / ₁₆	7 /16	2 /4	/ 16	716
A-711-2	3/8 Fem.	37/64	13/8	27/8	3/4	¹⁵ / ₁₆
A-733-2		45/64	1 ³ /8	35/8	7/8	11/16
A-2109-1	3/4 Fem.	⁵⁹ / ₆₄	11/2	$3^{51}/_{64}$	¹⁵ / ₁₆	1 ¹ / ₄

VENT PLUGS WITH FILTER can be used to relieve pressure or vacuum. These vent plugs assure pressure equalization and minimize undesirable problems, such as bearing seal blowout due to excessive pressure.

The vent plugs allow air to freely communicate through a 40 micron filter. The filter is easy to clean—just unscrew the hex cap on top, remove filter element, clean and reassemble.

SPECIFICATIONS:

 Temperature 225° F. Maximum Body Steel. Plated Filter 40 Micron



When Ordering Specify:

Catalog Number

Catalog Number	Catalog Thread Number Size		K Hex	
A-3432-1	¹ / ₈ Male N.P.T.	1	¹¹ / ₁₆	
A-3432-2	74 IVIGIO IN.I . I.	1	11/16	
A-3432-3	³ / ₈ Male N.P.T.	1 ¹ / ₁₆	3/4	
A-3432-4	¹ / ₂ Male N.P.T.	1 ³ / ₁₆	¹⁵ / ₁₆	
A-3432-5	³ / ₄ Male N.P.T.	1 ¹ / ₄	1 ¹ / ₁₆	

LIQUID FILTERS have a 40 micron filter element that can be easily removed for occasional cleaning or for replacement of the element itself.

An idea of the capacity of the filter can be visualized from a test of 750 SSU liquid at 70° F. gravity feed with a 6 inch head. This resulted in a flow of ½ ounce per minute. The maximum pressure of the unit should not exceed 125 P.S.I.

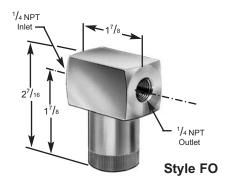
125 P.S.I. Maximum

SPECIFICATIONS:

 Pressure Flow Capacity

¹/₈ G.P.M. at 10 P.S.I. with S.A.E. 20 Oil Temperature 225° F. Maximum

• Body Aluminum Filter 40 Micron Seals Buna-N



When Ordering Specify:

Catalog Number

Catalog Inlet Number N.P.T.		Outlet N.P.T.	Filter	
A-4739-1	1/4 Fem.	1/4 Fem.	40 Micron	

