## Section 1800 Index

## **Section 1800 Index**

## CHAIN LUBRICATION.....18



General and engineering data helpful in determining your lubricating requirements.

## **ELECTRO CHAIN LUBRICATORS ......20**



Automatic electro chain lubricators are especially suitable for intermittent operation. They are turned on and off automatically with a solenoid valve.

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## MANUAL CHAIN LUBRICATORS......21



Manual chain lubricators are ideal for continuous operation. They are turned on and off with a toggle shut-off.

## SHANKS BRUSHES......23



Consist of brushes attached to holders.

## SHANK BRUSH DISPENSERS ......22

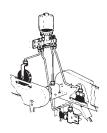


Consist of a central oiler with single or multiple feed valves.

SPARE PARTS AND ACCESSORIES ......26-27



## STANDARD CHAIN LUBRICATION SYSTEMS ......19



Central reservoir dispensing oil to one or more points.

## VALVE BRUSHES ......25



Consist of a metering valve with sight which is then connected to various styles of brushes.

## VALVE BRUSH DISPENSERS......24



Consist of a central full flow dispenser.

## **Chain Lubrication**

### **Chain Lubrication**

All chains should be lubricated in order to protect a costly investment. You will profit by the recommendations made, since chain life will be increased many times. Even under dusty and abrasive conditions, lubrication is recommended. Only when it is impossible to lubricate should a chain be operated dry at a sacrifice in chain life.

The primary purpose of chain lubrication is to provide a film of oil at all load carrying points where motion occurs. This will reduce friction, minimize wear, stretch, corrosion, and reduce power consumption. Benefits obtained will pay

for the lubricating equipment in a very short time.

The proper selection of equipment for dispensing the lubricant to the wearing surfaces of the chain is of prime importance. Many factors influence the choice of equipment shown in this brochure. The selection of a suitable lubricant is equally important, and we suggest you consult your oil company.

## Helpful Engineering Data

Power S=	$\underline{T \times P \times N}$	T = Number of teeth driving sprocket
<b>U</b> _	12	N = RPM of driving sprocket Dp = Pitch dia. of driving
Dp=	<u>P × T</u> 3.14	sprocket  S = Chain speed in feet per minute
L=	33000 × H S	P = Chain pitch in inches H = Horsepower L = Chain pull in pounds

## **Drive Chains**

The amount and type of lubrication are governed by the type of chain and operating conditions. The lubrication needed will depend upon friction and heat. All power drive chains create heat, some considerable, some little. Generally, the operating temperature should not exceed 160° F.

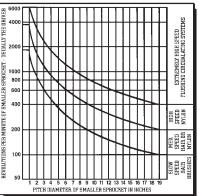


Fig. 1.

Proper lubricating methods for power drive chains can be divided into four areas, and selected from chart Fig. 1.

1. Determine pitch diameter in inches of the small sprocket.

2. Determine revolutions per minute of the small sprocket.

3. Extend lines from pitch diameter and RPM. The area in which these lines

meet will indicate the lubricating method.

The four recommended methods of chain lubrication are:

Slow speed area.

Use brush lubricator with standard brushes.

Medium speed area.

Use brush lubricator with either standard or nylon brushes.

High speed area.

Use brush lubricator with nylon brushes for best wearing qualities.

Extremely high speed area.

Use force feed oiling system to carry away heat.

## **Conveyor and Elevator Chains**

The lubrication of these chains depends upon many factors, and operating conditions usually govern the method of lubrication. We will be glad to make specific recommendations for individual applications.

Many methods of lubrication may be used which in most cases depend on the nature of the surrounding atmosphere. Clean atmosphere may permit the use of brush type

lubrication. The existence of lint or non-abrasive dust suggests the use of chain cleaners, followed by brush lubricating. Chain cleaners are strongly recommended when abrasive conditions exist, and oiling even in these cases is considered advantageous as it will prolong chain life.

Chains operating at elevated temperatures (above 250° F) can be lubricated by brush oilers with stainless steel brushes, or with stainless steel wire wheel brushes, which are rotated by the chain, transferring oil from a pan to the underside of the chains. Spraying is also widely used to lubricate "hot" chains.

Special methods of lubrication should be found, if possible, for chains which come in contact with material being handled. These problems are sometimes very difficult as the material itself might be very sensitive or prohibit the use of oil or grease.

## **Chain Brush Lubrication**

The use of a brush is the most effective and reliable method of chain lubrication, avoiding excess oil, dripping and slippery floors. The bristles of a brush are flexible and will follow the contour of the moving chain thus spreading and distributing oil to essential high and low points.

A brush will also perform a cleaning action in addition to oiling. Accumulated dirt and old lubricants are wiped off automatically. Brush type lubrication therefore accomplishes the dual function of oiling as well as cleaning. Oil-Rite's brush type lubricators are adaptable to most equipment. They may be selected from many styles, and if only a small space is available, components can be installed separately and connected with tubing.

Standard brushes for general purpose use have specially selected bristles for oil retention and good wear. They are normally furnished with all regular catalog items. Crimped black nylon brushes are available for greater wear resistance, longer life and are recommended for high speed chains. Crimped stainless steel brushes can be used for lubricating high temperature chains (above 250° F) as well as for cleaning.

Selection of brush size and mounting:

- Select lubricator with a brush size wide enough to almost cover the chain width.
- Whenever possible locate brush on the inside surface of the chain, so oil will penetrate chain links by centrifugal force.
- 3. Brushes should ride the chain at a point where there is a minimum of sway to prevent damage to the brush.
- Rotate brushes occasionally and adjust to compensate for wear. Provision is made on nearly all units for a minimum of ½" brush wear.

Chain Cleaning

Chains operating in dusty and dirty surroundings should be cleaned periodically. Complete removal of chains for cleaning purposes is not necessary as chains can effectively be cleaned automatically without

removal.



## **Stainless Steel Brushes**

Brushes with stainless steel bristles suitably mounted offer one method of chain cleaning. Care should be taken to install the brushes at a point where chains sway is at a minimum.



## **Wire Wheel Brushes**

Wire wheel brushes are ideal for cleaning chains. They can be mounted on opposite sides of the chain and rotated by the chain itself, thus cleaning it automatically.

Write us for recommendations regarding chain lubrication for your machinery. You can benefit from practical ideas tested and successfully used by others.



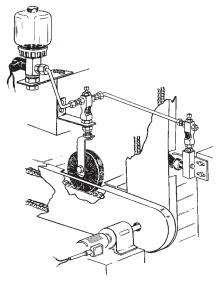
**CHAIN LUBRICATORS** dispense oil by gravity from a reservoir to an integral brush through an adjustable needle valve. Available with manual or electro shutoff.

These units have an adjustable oil feed rate which is observed through the lower sight chamber. Flow to brush is controlled by either the manual shutoff or by wiring a solenoid valve across the line of the drive motor, providing automatic operation. The flexible bristles of the brush follow the contour of the moving chain and spread oil to all load-bearing points. Brushes can be adjusted for wear and can be readily replaced.

Reservoirs are transparent, break-resistant, high temperature plastic which allows quick visual check of oil supply. A <sup>5</sup>/<sub>8</sub> - 18 threaded mounting shank is provided with each unit.

**SINGLE LINE SYSTEMS** manually or solenoid actuated, these systems are designed to operate with a central reservoir. Connected in series with a single line or pipe, it dispenses oil by gravity from a full flow dispenser to a valve brush, Style SFGC.

Shutting off oil supply on dispenser will immediately stop the flow of oil to the valve brush eliminating danger of reaching into drives in hazardous quarters. Remote mounting of brushes permit installation in narrow quarters. A single dispenser for gravity feeding will feed up to 24 valve brushes. Pressure dispensers can feed as many as 60 valve brushes from a single line. Brushes can be adjusted for wear and can be readily replaced.



Single Line System Consists of:

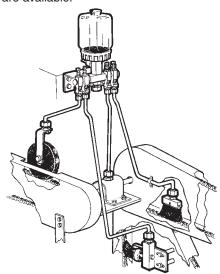
- A. Central Dispenser Select capacity in Style DEF or DFF to suit. Example: Cat. No. B-1734-4, (Shown on Page 24).
- B. Valve Brush, Style SFGC
   Select any one or combination
   Specify: Model Number
   Standard, Nylon or Stainless Steel
   Bristles.
- C. Tubing and Fittings
   To connect dispenser to valve brushes. (Accessories shown on Page 26.)

**MULTIPLE LINE SYSTEMS** release oil from a centralized dispenser through multiple needle valves.

These systems supply oil to widely separated points. They are controlled, observed and filled from one central station which eliminates danger of reaching into drives or hazardous quarters. Shutting off of oil supply at central dispenser will immediately stop oil flow to valves. However, the oil which remains in the tubing will dispense to brushes.

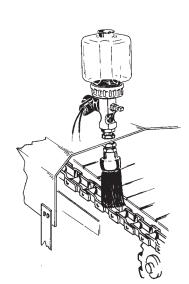
Central dispensers can be equipped with 2 to 24 sight feed valves. Oil-Rite's new manifold multiple feed valve systems are very versatile and sturdy in construction. This exclusive and unique feature allows for the first time, the option of changing the manifold arrangement in the field by merely stacking them together. Each feed valve can be separately adjusted and the setting retained.

Manual and solenoid controlled models are available.



Multiple Line Systems Consists of:

- A. Central Dispenser
   Select capacity in Style DE or DM to
   suit. Example: Electro Oiler, Cat. No.
   B-3192-3, (Shown on Page 22) 1 Qt.
   Cap., 120 Volts, 60 Hz. 4 Feed
   Outlets
- B. Shank Brush, Style SFCL(Page 23).
   Select any one or combination
   Specify: Model Number
   Standard, Nylon or Stainless Steel
   Bristles
- C. Tube Fittings
  To connect multiple feed outlets of central dispenser to each shank brush. (Accessories shown on Page 26.)



Single Chain Lubricators Consist of:

A. Complete System—External piping is not required. Simply mount lubricator at a position where there is a minimum amount of chain sway. (Accessories shown on Page 26.)



## **Chain Lubricators**

ELECTRO CHAIN LUBRICATORS WITH BRUSHES are especially suitable for intermittent operations. They are turned on and off automatically with a solenoid valve which is wired across the line of the chain drive motor. The solenoid can also

be operated by a separate switch or timer for intermittent use Oil is fed to brushes by gravity through a solenoid valve. It is then fed to an adjustable precision needle valve with a friction lock, which guards against loosening from vibration. Drop feeding can be observed through the viewing window in the

mounting shank.

The flexible bristles of the brush follow the contour of the moving chain and spread oil to all load-carrying points. This results in a reduction of chain wear which prolongs the life of costly chains. Oiling occurs only when the chain moves through the brush riding on the chain. For typical installation, see page 19.

## **SPECIFICATIONS:**

 Pressure Atmospheric Pressure

Gravity Feed Only
Reservoir and Sight Are Vented Temperature 160° F. Max. Acrylic

225° F. Max. Pyrex or Polycarbonate Adjustable Needle Valve with

Solenoid Shutoff

Acrylic, Polycarbonate or Pyrex Reservoir

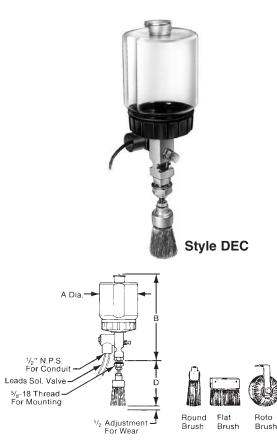
 Valve Body Aluminum Alloy

Buna-N Seals

Sight

Metering

 Covers Aluminum Alloy or Polypropylene

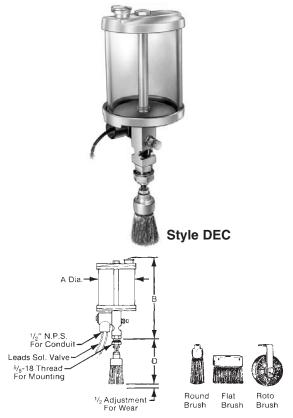


## When Ordering Specify:

- Model Number
- Voltage and Frequency
- Brush Type, Size and Material (Natural, Nylon or Stainless Steel)

Model Number Polycarbonate	Capacity	А	В
B-1743-1	1 OZ.	2	5
B-1743-2	2 <sup>1</sup> / <sub>2</sub> OZ.	2	6
B-1743-3	5 OZ.	2 <sup>7</sup> /8	5 <sup>15</sup> / <sub>16</sub>
B-1743-4	9 OZ.	2 <sup>7</sup> /8	73/16
B-1743-5	1 PT.	3 <sup>5</sup> /8	8 <sup>1</sup> / <sub>2</sub>
B-1743-6	1 QT.	35/8	11 <sup>7</sup> /8
B-1743-7	1/2 GAL.	5	123/4

Drugh Ciro		Round	Brush	Flat Brush	Roto Brush	
Brush Size	<sup>1</sup> / <sub>4</sub> Dia	5/8 Dia	1 Dia	1 <sup>1</sup> / <sub>2</sub> Dia	$2^{1}/4 \times {}^{3}/8$	3 Dia.×1 Wide
D	3 <sup>5</sup> /8	31/16	33/4	33/4	3	4 <sup>7</sup> /8



## When Ordering Specify:

- Model Number
- Voltage and Frequency
- Brush Type, Size and Material (Natural, Nylon or Stainless Steel)

	Model I	Number	Capacity	Α	В
	Acrylic	Pyrex	Сараспу	A	В
*	B-2192-2	B-2192-12	2 <sup>1</sup> / <sub>2</sub> OZ.	2	59/16
*	B-2192-3	B-2192-13	5 OZ.	2 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>16</sub>
*	B-2192-4	B-2192-14	9 OZ.	3	7
	B-2192-5	B-2192-15	1 PT.	3 <sup>1</sup> / <sub>2</sub>	8
	B-2192-6	B-2192-16	1 QT.	4 <sup>1</sup> / <sub>4</sub>	95/16
	B-2192-7	B-2192-17	1/2 GAL.	5 <sup>1</sup> / <sub>2</sub>	11 <sup>7</sup> / <sub>16</sub>
	B-2192-8	_	1 GAL.	5 <sup>1</sup> / <sub>2</sub>	16 <sup>7</sup> / <sub>16</sub>

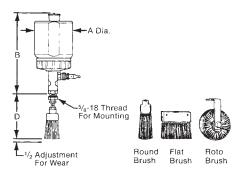
Bruch Sizo		Round	Brush		Flat Brush	Roto Brush
Brush Size	<sup>1</sup> / <sub>4</sub> Dia	<sup>5</sup> / <sub>8</sub> Dia	1 Dia	1 <sup>1</sup> / <sub>2</sub> Dia	$2^{1}/4 \times {}^{3}/8$	3 Dia. × 1 Wide
D	35/8	3 <sup>1</sup> /16	33/4	3 <sup>3</sup> / <sub>4</sub>	3	4 <sup>7</sup> /8

MANUAL CHAIN LUBRICATORS WITH BRUSHES are ideal for continuous operation. They are turned on and off with a toggle shutoff and oil is dispensed through a brush riding the chain.

Oil is fed to brushes by gravity through an adjustable precision needle valve with a friction lock, which guards against loosening from vibration. The toggle shutoff is used to start and stop oil flow, but will not affect the metering adjustment. Drop feeding can be observed through the viewing window in the mounting shank.

The flexible bristles of the brush follow the contour of the moving chain and spread oil to all load-carrying points. This results in a reduction of chain wear which prolongs the life of costly chains. Any desired amount of oil will be spread evenly on the chain assuring positive lubrication. For typical installation, see page 19.

# Style DOSC



## When Ordering Specify:

- Model Number
- Brush Type, Size and Material (Natural, Nylon or Stainless Steel)

Model Number Polycarbonate	Capacity	Α	В
B-1745-1	1 OZ.	2	41/2
B-1745-2	2 <sup>1</sup> / <sub>2</sub> OZ.	2	5 <sup>1</sup> / <sub>2</sub>
B-1745-3	5 OZ.	2 <sup>7</sup> /8	5 <sup>7</sup> /16
B-1745-4	9 OZ.	2 <sup>7</sup> /8	6 <sup>11</sup> / <sub>16</sub>
B-1745-5	1 PT.	3 <sup>5</sup> /8	8
B-1745-6	1 QT.	35/8	11 <sup>3</sup> /8
B-1745-7	1/2 GAL.	5	12 <sup>1</sup> / <sub>4</sub>

Bruch Size		Round	Brush	Flat Brush	Roto Brush	
Brush Size	<sup>1</sup> / <sub>4</sub> Dia	<sup>5</sup> / <sub>8</sub> Dia	1 Dia	1 <sup>1</sup> / <sub>2</sub> Dia	$2^{1}/4 \times ^{3}/8$	3 Dia.×1 Wide
D		3 <sup>1</sup> / <sub>16</sub>			3	4 <sup>7</sup> /8

## SPECIFICATIONS:

• Temperature

Atmospheric Pressure Pressure

Gravity Feed Only

Reservoir and Sight Are Vented 160° F. Max. Acrylic 225° F. Max. Pyrex or Polycarbonate

Adjustable Needle Valve with Metering

Toggle Shutoff

 Reservoir Acrylic, Polycarbonate or Pyrex

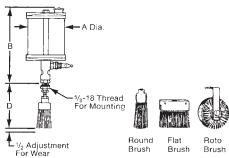
 Valve Body Aluminum Alloy

 Seals Buna-N

 Sight Glass

 Covers Aluminum Alloy or Polypropylene





## When Ordering Specify:

- Model Number
- Brush Type, Size and Material (Natural, Nylon or Stainless Steel)

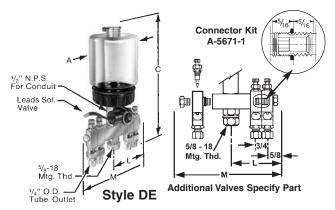
1	Model I	Number	Capacity	Α	В
	Acrylic	Pyrex	Сараспу	A	В
*	B-2191-2	B-2191-12	2 <sup>1</sup> / <sub>2</sub> OZ.	2	5
*	B-2191-3	B-2191-13	5 OZ.	21/2	5 <sup>1</sup> / <sub>2</sub>
*	B-2191-4	B-2191-14	9 OZ.	3	6 <sup>7</sup> /16
	B-2191-5	B-2191-15	1 PT.	31/2	7 <sup>7</sup> /16
	B-2191-6	B-2191-16	1 QT.	41/4	8 <sup>3</sup> / <sub>4</sub>
	B-2191-7	B-2191-17	1/2 GAL.	5 <sup>1</sup> / <sub>2</sub>	10 <sup>7</sup> /8
	B-2191-8	1	1 GAL.	5 <sup>1</sup> / <sub>2</sub>	15 <sup>7</sup> /8

1	Brush Size		Round	Brush		Flat Brush	Roto Brush
1	Brush Size	<sup>1</sup> / <sub>4</sub> Dia	<sup>5</sup> / <sub>8</sub> Dia	1 Dia	1 <sup>1</sup> / <sub>2</sub> Dia	$2^{1}/4 \times {}^{3}/8$	3 Dia. x 1 Wide
	D	3 <sup>5</sup> /8	3 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	33/4	3	4 <sup>7</sup> /8

## **Shank Brush Dispensers**

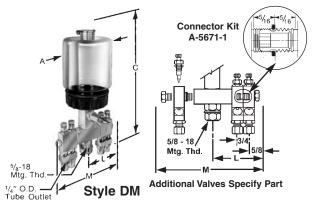
SHANK BRUSH DISPENSERS consist of a central oiler with single or multiple feed valves and copper or plastic tubing which connects to shank brushes.

This system allows single or multiple chain oiling from one reservoir. Remote mounting of brushes permit installation in extremely narrow quarters. Drop feeding is controlled by feed valves directly beneath central oiler, thus eliminating danger of reaching into drives in hazardous quarters. Shutting off oil supply on central oiler will immediately stop drop feeding of valves. The oil which remains in the tubing, however, will dispense to brushes. Central oilers can be equipped with 1 to 24 feed outlets. Manual or automatic solenoid valve controlled models are available.



Model Number	Capacity	Α	С
B-3192-2	9 OZ.	2 <sup>7</sup> /8	9 <sup>1</sup> / <sub>16</sub>
B-3192-3	1 PT.	35/8	10 <sup>1</sup> /16
B-3192-4	1 QT.	35/8	13 <sup>7</sup> /16
B-3192-5	1/2 GAL.	5	14 <sup>1</sup> /8
For Additiona	al information See Se	ction 1000	

Feeds	2	3	4	5	6	12	24
L	2	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	31/2	5 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>4</sub>
М	3 <sup>15</sup> / <sub>16</sub>	A <sup>11</sup> /16	57/16	63/16	6 <sup>15</sup> / <sub>16</sub>	11 <sup>7</sup> /16	20 <sup>7</sup> /16



Model Number			Capacity		А		С
B-3	193-2		9 OZ.		2 <sup>7</sup> /8	3	9 <sup>1</sup> / <sub>16</sub>
B-3193-3			1 P	T.	35/8	3	10 <sup>1</sup> / <sub>16</sub>
B-3193-4			1 Q	T.	35/8	3	13 <sup>7</sup> / <sub>16</sub>
B-3	193-5		1/2 GAL.		5		14 <sup>1</sup> /8
	For Ac	lditional i	nformatio	n See Se	ction 100	0	
First 0		0	4	-	_	40	0.4
Feeds	2	3	4	5	6	12	24

 $3^{1/2}$ 

615/16

 $5^{3}/_{4}$ 

11<sup>7</sup>/16

 $10^{1}/4$ 

 $20^{7}/16$ 

## **SPECIFICATIONS:**

Atmospheric Pressure Pressure

Gravity Feed Only

Reservoir and Sight Are Vented

225° F. Max.

 Temperature Adjustable Needle Valve with Metering

Solenoid or Toggle Shutoff

 Reservoir Polycarbonate

Steel, Plated or Aluminum Alloy Valves

 Seals Buna-N Sight Glass

Polypropylene Covers Body Aluminum Alloy

 Connector Kit Buna N (Other Material Available)

## When Ordering Specify:

Model or Catalog Number

Voltage and Frequency (If Applicable)

Number of Feeds (2 - 24, If Applicable)



	Model Number	Capacity	Outlet Thread Size	Α	С	D
*	B-1763-12	1 OZ.		2	5 <sup>9</sup> / <sub>16</sub>	5/8
*	B-1763-13	2 <sup>1</sup> / <sub>2</sub> OZ.	<sup>5</sup> /8-18 N.F. FOR	2	6 <sup>9</sup> / <sub>16</sub>	5/8
	B-1763-14	5 OZ.	REMOTE	2 <sup>7</sup> /8	6 <sup>9</sup> /16	5/8
	B-1763-15	9 OZ.	MOUNTING WITH 1/8	2 <sup>7</sup> /8	7 <sup>13</sup> / <sub>16</sub>	
	B-1764-5	1 PT.	FEMALE	35/8	9 <sup>1</sup> /8	<sup>5</sup> /8
	B-1764-6	1 QT.	N.P.T. OUTLET	35/8	12 <sup>1</sup> / <sub>2</sub>	5/8
	B-1764-8	1/2 GAL.		5	13 <sup>3</sup> /8	5/8
	For Additional information See Section 1000					

Special - Please Consult Factory



Model Number	Capacity	Outlet Thread Size	Α	С	D
B-1681-12	1 OZ.		2	5 <sup>1</sup> / <sub>16</sub>	<sup>5</sup> / <sub>8</sub>
B-1681-13	2 <sup>1</sup> / <sub>2</sub> OZ.	5/8-18 N.F. FOR REMOTE MOUNTING WITH 1/8 FEMALE N.P.T. OUTLET	2	6 <sup>1</sup> / <sub>16</sub>	5/8
B-1681-14	5 OZ.		2 <sup>7</sup> /8	6	5/8
B-1681-15	9 OZ.		2 <sup>7</sup> /8	7 <sup>1</sup> / <sub>4</sub>	5/8
B-1682-5	1 PT.		3 <sup>5</sup> /8	8 <sup>5</sup> /8	5/8
B-1682-6	1 QT.		35/8	12	5/8
B-1682-8 1/2 GAL.		5	12 <sup>7</sup> /8	5/8	
Fo	For Additional information See Section 1000				

## **Shank Brushes**

SHANK BRUSHES consist of brushes attached to holders. Mounting means are provided. Brushes can be adjusted for wear on most models and can easily be replaced at low cost. All shank brushes can be supplied with natural, nylon, or stainless steel bristles.

## **SPECIFICATIONS:**

Temperature

Above 250° F. use Stainless Steel Brush

Aluminum Alloy Adapters

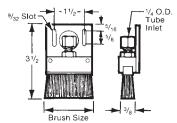
Brackets

Steel, Plated Natural, Nylon or Stainless Steel Brushes

## When Ordering Specify:

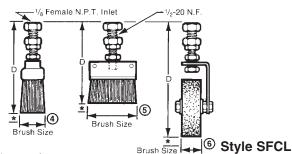
Shank Brushes

- Model Number
- Bristle Material



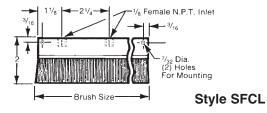
Style SFCL

Model Number	Brush Size
A-2048-1	2 <sup>1</sup> / <sub>4</sub> × <sup>3</sup> / <sub>8</sub>



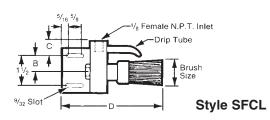
1/2"	Adjustment	for	wear

Model Number	Figure	Brush Size	D
A-2256-1		1/4 Dia.	4 <sup>1</sup> / <sub>8</sub>
A-2256-2	4	5/8 Dia.	39/16
A-2256-3	7	1 Dia.	4 <sup>1</sup> / <sub>4</sub>
A-2256-4		1 <sup>1</sup> / <sub>2</sub> Dia.	4 /4
A-2256-5	5	$2^{1}/4 \times {}^{3}/8$	3 <sup>1</sup> / <sub>2</sub>
A-2256-6	6	3 Dia. x 1	5 <sup>3</sup> /8

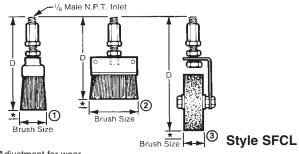


	Model Number	Brush Size	No. of Inlets
I	A-2258-1	$2^{1/4} \times {}^{3/8}$	1
I	A-2258-2	$4^{1}/_{2} \times ^{3}/_{8}$	2
	A-2258-3	$6^{3}/4 \times {}^{3}/8$	3
	A-2258-4	9 × <sup>3</sup> / <sub>8</sub>	4
	A-2258-5	$11^{1}/_{4} \times ^{3}/_{8}$	5

\* Special - Please Consult Factory



Model Number	Brush Size	В	С	D
A-2260-1	1/4 Dia.	1/4		4 <sup>13</sup> /16
A-2260-2	<sup>5</sup> /8 Dia.	/4	3/4	4 <sup>1</sup> / <sub>4</sub>
A-2260-3	1" Dia.		, ·	4 <sup>15</sup> / <sub>16</sub>
A-2260-4	1 <sup>1</sup> / <sub>2</sub> Dia.	3/4		4.5/16
A-2260-5	$2^{1/4} \times {}^{3/8}$		1	3 <sup>1</sup> / <sub>2</sub>



\* 1/2" Adjustment for wear

Model Number	Figure	Brush Size	D
A-2257-1		1/4 Dia.	4
A-2257-2	1 1	5/8 Dia.	3 <sup>7</sup> / <sub>16</sub>
A-2257-3	· ·	1 Dia.	4 <sup>1</sup> /8
A-2257-4		1 <sup>1</sup> / <sub>2</sub> Dia.	4 /0
A-2257-5	2	$2^{1}/_{4} \times {}^{3}/_{8}$	33/8
A-2257-6	3	3 Dia. x 1	5 <sup>1</sup> / <sub>4</sub>



## Valve Brush Dispensers

VALVE BRUSH DISPENSERS consist of a central full flow dispenser and copper or plastic tubing which is then connected to valve brushes.

These systems allow single or multiple chain oiling from one reservoir. Remote mounting of brushes permit installation in narrow quarters. Shutting off oil supply on dispenser will immediately stop drop feeding to valve brush. The valve brushes can be fed at an extremely slow rate for application demanding a minimum oil film on chains. A single dispenser for gravity feeding will feed up to 24 valve brushes. Manual or solenoid controlled models are available.

### **SPECIFICATIONS**

## **Full Flow Dispensers:**

Pressure Atmospheric Pressure Gravity Feed Only Reservoir is Vented Temperature 225° F. Max.

 Metering Full Flow with Solenoid or Toggle Shutoff

Port ¼ Dia.

 Reservoir Polycarbonate

Seals Buna-N Shank Aluminum Alloy Cover Polypropylene

 Filler Cap Steel, Plated

## When Ordering Specify:

 Model or Catalog Number Voltage and Frequency (if Applicable)

### **SPECIFICATIONS**

## Air Operated Dispensers:

Pressure 30 P.S.I. Max.

160° F. Max. for Acrylic 225° F. Max. for Steel Temperature

5 C.F.M. at 20 P.S.I. Air Capacity Liquid Capacity 3 G.P. H. at 10 P.S.I.

Components **Externally Mounted**  Reservoir Clear Acrylic or Steel,

Painted Covers Aluminum Alloy

Seals Buna-N

## When Ordering Specify:

Catalog Number

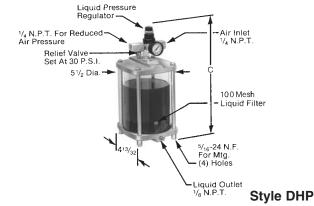


## Style DEF

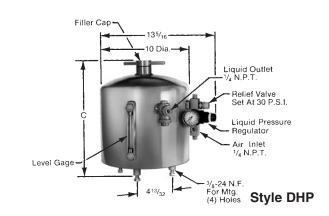
Model Number	Capacity	Α	С
B-1733-1	1 OZ.	2	4 <sup>3</sup> /16
B-1733-2	2 <sup>1</sup> / <sub>2</sub> OZ.	2	5 <sup>3</sup> / <sub>16</sub>
B-1733-3	5 OZ.	27/8	5 <sup>1</sup> /8
B-1733-4	9 OZ.	27/8	6 <sup>3</sup> / <sub>8</sub>
B-1733-5	1 PT.	3 <sup>5</sup> /8	7 <sup>11</sup> / <sub>16</sub>
B-1733-6	1 QT.	35/8	11 <sup>1</sup> /16
B-1733-7	1/2 GAL.	5	<b>11</b> <sup>15</sup> / <sub>16</sub>
For Additional information See Section 1000			

- A Dia. → Toggle Shutoff 1/4 N.P.T. Outlet 5/8-18 Thread For Mounting Style DFF 1/8 N.P.T. Outlet-

Catalog Number	Capacity	Α	С
B-1734-1	1 OZ.	2	4 <sup>3</sup> / <sub>16</sub>
B-1734-2	2 <sup>1</sup> / <sub>2</sub> OZ.	2	5 <sup>3</sup> / <sub>16</sub>
B-1734-3	5 OZ.	2 <sup>7</sup> /8	5 <sup>1</sup> /8
B-1734-4	9 OZ.	2 <sup>7</sup> /8	6 <sup>3</sup> /8
B-1734-5	1 PT.	3 <sup>5</sup> / <sub>8</sub>	7 <sup>11</sup> / <sub>16</sub>
B-1734-6	1 QT.	3 <sup>5</sup> /8	11 <sup>1</sup> /16
B-1734-7	1/2 GAL.	5	<b>11</b> <sup>15</sup> / <sub>16</sub>
For Additiona	I information See Sec	ction 1000	



	Catalog Number	Capacity	С		
*	B-1318-1	1 QT.	83/4		
1	B-1318-2	1/2 GAL.	12 <sup>1</sup> / <sub>4</sub>		
1	B-1318-3	1 GAL.	17 <sup>1</sup> / <sub>4</sub>		
*	B-1318-4	2 GAL.	30 <sup>1</sup> / <sub>4</sub>		
	For Additional information See Section 1000				



	Catalog Number	Capacity	С			
*	B-1266-1	2 <sup>1</sup> / <sub>2</sub> OZ.	12 <sup>1</sup> / <sub>2</sub>			
*	B-1266-2	5 GAL.	20 <sup>1</sup> / <sub>2</sub>			
	For Additional information See Section 1000					

<sup>\*</sup> Special - Please Consult Factory



## **Valve Brushes**

VALVE BRUSHES consist of a metering valve with sight which is then connected to various styles of brushes. A mounting means is provided. Brushes can be adjusted for wear and are easily replaceable at low cost. All valve brushes can be supplied with natural, nylon, or stainless steel bristles.

## **SPECIFICATIONS:**

Temperature

 Adapters Brackets

Brushes

Valve Body

Seals

Above 250° F. use Stainless steel Brush

Aluminum Alloy

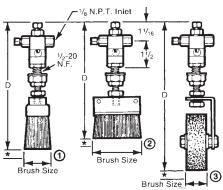
Steel, Plated Natural, Nylon or Stainless Steel

Steel. Plated Buna-N

## When Ordering Specify:

Valve Brushes

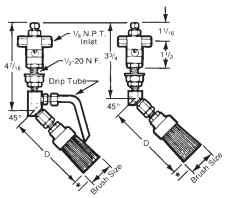
- Model Number
- Bristle Material



\* 1/2" Adjustment for wear

Style SFGC

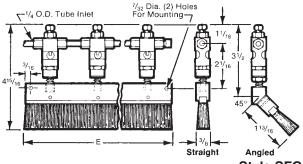
Model Number	Figure	Brush Size	D
A-2261-1		¹/₄ Dia.	65/16
A-2261-2	1	5/8 Dia.	5°/4
A-2261-3	'	1 Dia.	6 <sup>7</sup> / <sub>16</sub>
A-2261-4		1 <sup>1</sup> / <sub>2</sub> Dia.	
A-2261-5	2	$2^{1}/_{4} \times {}^{3}/_{8}$	5''/16
A-2261-6	3	3 Dia. × 1 W.	7 <sup>9</sup> / <sub>16</sub>



\* 1/2" Adjustment for wear

Style SFGC

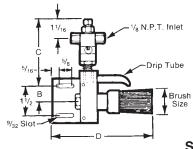
			,
Model Number		Brush Size	D
W/Drip Tube	Without	Bracii Cizo	
B-1008-1	B-1049-1	1/4 Dia.	4
B-1008-2	B-1049-2	<sup>5</sup> /8 Dia.	3 <sup>7</sup> /16
B-1008-3	B-1049-3	1 Dia.	4 <sup>1</sup> /8
B-1008-4	B-1049-4	1 <sup>1</sup> / <sub>2</sub> Dia.	4 /8
B-1008-5	B-1049-5	$2^{1/4} \times {}^{3/8}$	33/8



\* 1/2" Adjustment for wear

Style SFGC

Model Number		E
Straight	45° Angled	
B-309-1	B-310-1	2 <sup>1</sup> / <sub>4</sub>
B-309-2	B-310-2	4 <sup>1</sup> / <sub>2</sub>
B-309-3	B-310-3	6 <sup>3</sup> / <sub>4</sub>
B-309-4	B-310-4	9
B-309-5	B-310-5	11 <sup>1</sup> / <sub>4</sub>



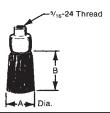
Style SFGC

Model Number	Brush Size	В	С	D
B-1009-1	1/4 Dia.	1/.		4 <sup>13</sup> / <sub>16</sub>
B-1009-2	<sup>5</sup> / <sub>8</sub> Dia.	1/4	3 <sup>3</sup> /8	41/4
B-1009-3	1" Dia.		3 /8	4 <sup>15</sup> /16
B-1009-4	1 <sup>1</sup> / <sub>2</sub> Dia.	3/4		4 /16
B-1009-5	$2^{1/4} \times {}^{3/8}$		35/8	31/2



## **Spare Parts and Accessories**





Catalog Number	Α	В	Round Brush Material
A-2080-1			Natural
A-2080-2	1/4	3/4	Nylon
A-2080-3			Stainless Steel
B-536-1			Natural
B-536-2	5/8	1 <sup>1</sup> /8	Nylon
B-536-3			Stainless Steel
B-536-6			Natural
B-536-7	1	1 <sup>3</sup> / <sub>4</sub>	Nylon
B-536-8			Stainless Steel
B-536-11			Natural
B-536-12	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	Nylon
B-536-13			Stainless Steel

## **Brass Fittings**

**Straight Connector** 



Catalog Number	N.P.T.	O.D. Tube
A-4173-3	1/8	1/4

## **Plasitc Fittings**

**Straight Connector** 



Catalog Number	N.P.T.	Barb
A-4177-45	1/8	1/8

## "T" Connector



Catalog Number	N.P.T.	O.D. Tube
Λ_/1177_2	1/2	1/.

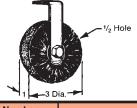
**Straight Connector** 



Catalog Number	N.P.T. to Barb

1/8 **to** 1/16

Roto Brush



Catalog Number With Holder Without		Roto Brush Material	
A-2307-4	A-2440-2	Nylon	
A-2307-6	A-2440-3	Stainless Steel	

90° L Connector



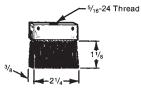
Catalog Number	N.P.T.	O.D. Tube
A-4173-31	1/8	1/4

**Straight Connector** 



Catalog Number	Barb	Barb
A-4177-46	1/8	1/8

Flat Brush



Catalog Number		Flat Brush Material	
With Holder	Without	Fiat Brush Materia	
A-2087-1	B-579-1	Natural	
A-2087-2	B-579-2	Nylon	
A-2087-3	B-579-3	Stainless Steel	

**Tubing** 

**Clear Flexible Polyurethane Tubing** 



Catalog Number	O.D.	I.D.
A-4891-1	1/4	1/8

90° L Connector



Catalog Number	Barb to Barb	
A-4177-44	1/8 <b>to</b> 1/8	

## Solenoid



Solenoid Operator(Specify voltage Frequency)		
Model Number	B-1725	

Spare Coil (Only)		
Catalog Number Voltage and Frequency		
<b>B-2508-101</b> 120 Volts - 60 Hz.		
<b>B-2508-102</b> 240 Volts - 60 Hz.		
<b>B-2508-103</b> 480 Volts - 60 Hz.		
Other Voltage and Frequency Available.		

**Copper Tubing** 



Catalog Number	O.D.	I.D.
	$\overline{}$	
A-4207-4	1/4	1/8

"T" Connector

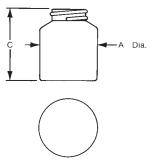


Catalog Number	Barb to Barb
A-4177-43	1/8 <b>to</b> 1/8

## **Spare Parts and Accessories**

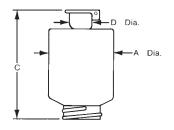
## **Polycarbonate Reservoirs**

## No Hole



Catalog Number	Capacity	Α	С
A-3515-1	1 OZ.		1 <sup>13</sup> /16
A-3515-2	2 <sup>1</sup> / <sub>2</sub> OZ.	2	2 <sup>13</sup> / <sub>16</sub>
A-3277-1	5 OZ.	2 <sup>7</sup> /8	23/4
A-3277-2	9 OZ.	2 /8	4
B-1654-1	1 PT.	3 <sup>5</sup> /8	43/4
B-1654-2	1QT.	3 /8	8 <sup>1</sup> /8
B-2432-1	1/2 GAL.	5 9	

## With Hinge Lid



Catalog Number	Capacity	Α	С	D
B-2017-1	1 OZ.	2	2 <sup>1</sup> /8	3/8
B-2017-2	2 <sup>1</sup> / <sub>2</sub> OZ.		3 <sup>1</sup> /8	7/8
B-2017-3	5 OZ.	2 <sup>7</sup> /8	3 <sup>1</sup> / <sub>16</sub>	5.1
B-2017-4	9 OZ.	2 /8	4 <sup>5</sup> /16	5/8
B-2017-5	1 PT.	35/8	53/8	
B-2017-6	1QT.	3 /8	83/4	1
B-2017-9	1/2 GAL.	5	95/8	

## Polypropylene Enclosure Caps

## No Hole



Catalog Number	Used On
B-1586-1	1 OZ. to 9 OZ.
B-2189-1	1 PT. to <sup>1</sup> / <sub>2</sub> GAL.

## With Center Hole



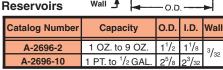
Catalog Number	Used On
B-1677-2	1 OZ. to 9 OZ.
B-2221-6	1 PT. to 1/2 GAL.



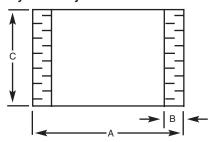


Catalog Number	Filter	
A-4655-1	100 Mesh	

## Buna-N Gaskets For Polycarbonate Reservoirs



## **Acrylic and Pyrex Reservoirs**

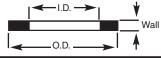


-				
Reservoirs Pyrex				
Catalog Number	Capacity	Α	В	С
A-2691-4	1 OZ.	1 <sup>1</sup> /2	1/8	1 <sup>3</sup> /8
A-2691-6	2 <sup>1</sup> / <sub>2</sub> OZ.	2	5/32	1 <sup>7</sup> /8
A-2691-7	5 OZ.	2 <sup>1</sup> / <sub>2</sub>	3/16	2 <sup>3</sup> /8
A-2691-8	9 OZ.	3	13/64	3
A-2691-9	1 PT.	3 <sup>1</sup> / <sub>2</sub>	<sup>7</sup> / <sub>32</sub>	4
A-2691-10	1 QT.	41/4	1/	5
A-2691-11	1/2 GAL.	5 <sup>1</sup> / <sub>2</sub>	1/4	7

<sup>7</sup> / <sub>16</sub> -20 Thd.—	
Acrylic and	Acrylic
	Pyrex
Reservoir	
Filter	Filter
<del></del> [	
<sup>13</sup> / <sub>16</sub> Dia.→	
100	
Mesh	
<sup>5</sup> / <sub>8</sub> -18 Thd. → 15/ <sub>16</sub> → Hex.	

Catalog Number	Capacity	А
A-4656-1	5 OZ.	2 <sup>15</sup> / <sub>32</sub>
A-4656-2	9 OZ.	3 <sup>7</sup> /32
A-4656-3	1 PT.	4 <sup>7</sup> / <sub>32</sub>
A-4656-4	1 QT.	5 <sup>7</sup> / <sub>16</sub>
A-4656-5	1/2 GAL.	7 <sup>7</sup> /16
A-4656-6	1 GAL.	12 <sup>7</sup> / <sub>16</sub>

## Buna-N Enclosure Gaskets for Acrylic and Pyrex Reservoirs.



Seals				
Catalog No.	Capacity	O.D.	I.D.	Wall
A-2696-2	1 OZ.	1 <sup>17</sup> /32	1 <sup>1</sup> /8	
A-2696-4	2 <sup>1</sup> / <sub>2</sub> OZ.	21/32	1 <sup>5</sup> /8	
A-2696-5	5 OZ.	2 <sup>17</sup> / <sub>32</sub>	1 <sup>7</sup> /8	٠, ا
A-2696-6	9 OZ.	31/32	$2^{17}/_{32}$	3/32
A-2696-7	1 PT.	3 <sup>17</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>32</sub>	
A-2696-8	1 QT.	4 <sup>19</sup> / <sub>64</sub>	35/8	
A-2696-9	<sup>1</sup> / <sub>2</sub> , 1 & 2 GAL.	5 <sup>35</sup> / <sub>64</sub>	4 <sup>7</sup> /8	

Reservoirs Acrylic				
Catalog Number	Capacity	Α	В	С
A-2692-21	1 OZ.	1 <sup>1</sup> / <sub>2</sub>	1/8	1 <sup>3</sup> /8
A-2692-25	2 <sup>1</sup> / <sub>2</sub> OZ.	2		1 <sup>7</sup> /8
A-2692-28	5 OZ.	2 <sup>1</sup> / <sub>2</sub>		2 <sup>3</sup> /8
A-2692-30	9 OZ.	3		3
A-2692-33	1 PT.	31/2		4
A-2692-34	1 QT.	4 <sup>1</sup> / <sub>4</sub>		5
A-2692-36	1/2 GAL.			7
A-2692-37	1 GAL.	5 <sup>1</sup> / <sub>2</sub>	3/16	12
A-2692-38	2 GAL.			25



## Helpful information

## HELPFUL HINTS FOR OPERATION AND MAINTENANCE OF CHAIN CONVEYORS AND ELEVATORS

### **EXCESSIVE NOISE**

## **Possible Causes**

- 1. Misalignment
- 2. Too little or too much slack
- 3. Improper lubrication
- 4. Loose casing or sprockets
- 5. Worn chain or sprockets

### What to Do

- 1. Check alignment and correct
- 2. Adjust take-up
- Lubricate properly (follow instructions in lubrication section)
- 4. Draw up all bolts...brace housings if necessary
- 5. Replace chain and sprocket

## WEAR ON CHAIN SIDE BARS AND SIDES OF SPROCKET TEETH

## **Possible Causes**

- 1. Misalignment
- 2. Obstruction in guides, ways or troughs

### What to Do

- 1. Correct alignment of sprockets and shafts
- Remove obstruction...repair or replace damaged guides, ways or troughs

## **CHAIN CLIMBS SPROCKETS**

## **Possible Causes**

- 1. Poorly fitting sprockets
- 2. Chain worn long in pitch...or worn out
- 3. Insufficient chain wrap or excessive slack
- 4. Material build-up in sprocket tooth pockets
- 5. Loose or broken buckets

## What to Do

- 1. Replace sprockets... and chain if necessary
- Replace chain
- Increase chain wrap with idler or adjust center for proper slack
- 4. Remove material build-up
- 5. Tighten, repair or replace buckets

## **BROKEN PINS AND ROLLERS**

## **Possible Causes**

- 1. Conveyor speed too high for chain
- 2. Shock or suddenly applied loads
- 3. Inadequate lubrication
- 4. Material build-up in sprocket tooth pockets
- 5. Buckets striking casing

## What to Do

- 1. Use chain of shorter pitch or sprocket with more teeth
- 2. Reduce shock loads...easy starts give long life
- Lubricate properly (follow instructions in lubrication section)
- 4. Remove material build-up
- Check bucket clearance with casing and tighten loose buckets

## **PULSATION**

## **Possible Causes**

- 1. Chain tension too low
- 2. Chain speed too slow
- 3. Obstruction
- 4. Heavy or tacky lubricants
- 5. Sprockets with too few number of teeth, resulting in large amount of chordal action

## What to Do

- 1. Adjust take-ups to restore proper tension
- 2. Increase size of sprocket or increase conveyor speed
- 3. Remove obstruction and be sure lower strand is not

- striking foreign obstruction, ways or trough
- Lubricate correctly (follow instructions in lubrication section)
- 5. Replace with sprockets having correct number of teeth

### **CHAIN GETS STIFF JOINTS**

### **Possible Causes**

- 1. Misalignment
- 2. Material in chain joint
- 3. Improper lubrication
- 4. Corrosion
- 5. Peening of side bars
- 6. Excessive overloads

### What to Do

- Check sprocket and shaft alignment, and correct replace damaged chain if necessary
- 2. Remove foreign material
- Lubricate properly (follow instructions in lubrication section)
- 4. Protect chain from corrosion with case...clean and lubricate more often
- Check for interference between chain and another member, and correct

## **BROKEN SPROCKET TEETH**

### **Possible Causes**

- 1. Excessive shock loads
- 2. Objects wedged between chain and sprocket
- 3. Chain climbing sprocket teeth

## What to Do

- 1. Avoid shocks...easy starts give long life
- Remove and protect from foreign objects...alter trough at discharge point to prevent dropping of objects onto sprocket teeth
- 3. (Refer to Chain Climbs Sprocket)

## RAPID WEAR ON TROUGHS, WAYS OR CASINGS

## **Possible Causes**

- Abrasive material or obstructions in troughs, ways or casings
- 2. Bent or damaged flights, attachments or links
- 3. Insufficient trough lubrication

## What to Do

- Remove obstructions and try to avoid accumulation of abrasive material
- Replace or repair damaged flights, attachments and links
- Lubricate properly where lubrication is permitted

## **DAMAGE TO CONVEYED ARTICLES**

## Possible Causes

- 1. Bent or damaged flights, attachments or links
- 2. Obstruction in troughs, ways or casings
- Improper timing

## What to Do

- 1. Repair or replace damaged parts
- 2. Remove obstruction
- Check timing sequence, chain elongation, chain selection

## **CHAIN CLINGS TO SPROCKETS**

## Possible Causes

- 1. Incorrect or badly worn sprockets
- 2. Heavy or tacky lubricants
- 3. Material build-up in driver sprocket tooth pockets

## What to Do

- 1. Replace chain and sprockets
- 2. Clean and lubricate properly
- Remove material build-up...protect from contact with foreign material, or use sprockets with mud relief, pitch line clearance.