# **Meter Units**

# Inch and Metric Threads



#### General

Meter units are oil proportioning devices for cyclic systems. Each outlet of a lubricating system is controlled by a meter unit. The lubricator in the system dispenses known amounts of oil to the distribution network and meter units deliver this oil in varying amounts to the bearing points.

The first letter of the meter unit identifies the type of threads on the unit. Meter units that begin with the letter "F" denote imch threads, while those that start with the letter "A" signify metric threads.

Standard flow rates range from 00 (medium slow) to 3 (fast). For special situations, 3/0 (slow) and 5 (extra, extra fast) rates are available. Each incremental increase in rate size doubles the oil flow to a point.

# **Application**

Meter units type "F" must be used with all cyclic type lubricators (cannot be used with continuous lubricators). Meter units feed in one direction only. This is indicated by arrow stamped on body.

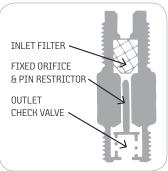
#### How to Order

Meter units have a letter and number designation stamped on the flat surface of the hexagonal body. Part numbers are listed in the tables on the following pages. When ordering, specify the complete name and part number, e.g. Meter Unit, Type FSA-0, Part #B1083. (Use the chart below as reference only for letter and number designation definitions.)

# Thread Type F- Inch thread - 5 lb check valve A- Metric thread - 5 lb check valve M- Inch thread - 1.25 lb check valve Type, Location & Mating Parts

- B- British Thread Tee Type: A 1/8 BSP thread on each end (FB-) is designed for use with a series of junction headers providing various combinations of tubing connections, 2-way, 3-way and 4-way. They are generally mounted directly at the bearing, similar to the "FSA," but the multiple combinations of junction headers afford great flexibility in the tubing arrangement.
- Junction Type: Threaded into a junction or junction header with a tail tube leading to the bearing. The inlet thread on the "FJ-" meter unit is 5/16-24 to mate with standard junctions and junction headers. The "AJ-" meter unit has the metric-M8xl thread which is very close to a 5/16-24 thread. There are three different "Junction" types identified by the third letters "B", "C" and "D". Type "-JB" is the most commonly used meter unit and has a 5/16-24 or M8xl outlet thread for a 5/32 tail tube to the bearing. The type "-JC" also has a 5/16-24 outlet thread but has a tubing connection insert for a 3/32 dia. tail tube. Type "-JD" are thinner than standard junctions and also have closer hole spacing. Type "-JD" are made from 5/16" hexagon bar and have a 1/4-28 outlet thread to accommodate the 5/16 hex compression nut #B3610.
- K- Insert Type: Designed to be inserted into a tapped hole mating with a drilled passage, so there is no tubing connection to the fitting itself. The "-KA" and "-KB" are provided with a 1/8 NPT thread on one end only (outlet end of the "-KA" and the inlet end of the "-KB"). The "FKD" and "FKE" are the 1/8 BSP equivalent of the "FKA" and "FKB".
- R- Reverse Flow Type: Have the same threads as the FSA, but in reverse. The inlet thread is 1/8 NPT and the outlet thread is 5/16-24. These are generally used to connect to pressurized drilled oil passages within the machine with tail tubes leading to the bearings. The "FRA" accommodates 5/32" O.D. tail tubes and the "FRC" has the insert for 3/32" tubes.
- S— Straight Type: Mounted directly at the bearing and at the end of a pressure line. The inlet end is a 5/16-24 male thread for connection to 5/32" tubing and the outlet end has a 1/8 pipe thread to provide a sealed connection to the bearing tap. The "-SA" has a 1/8 NPT outlet thread and the "-SB" has a 1/8 BSP thread.
- T- Tee Type: Identical to the British Thread Tee-Type meter unit, except these units have a 1/8 NPT thread on each end.





#### References

- + Brochure #106: Single Line Resistance Systems
- + Brochure #151: Specialty Fluid Fittings
- + Flier #005: Bijur Sales Flier

#### -Flow Rate

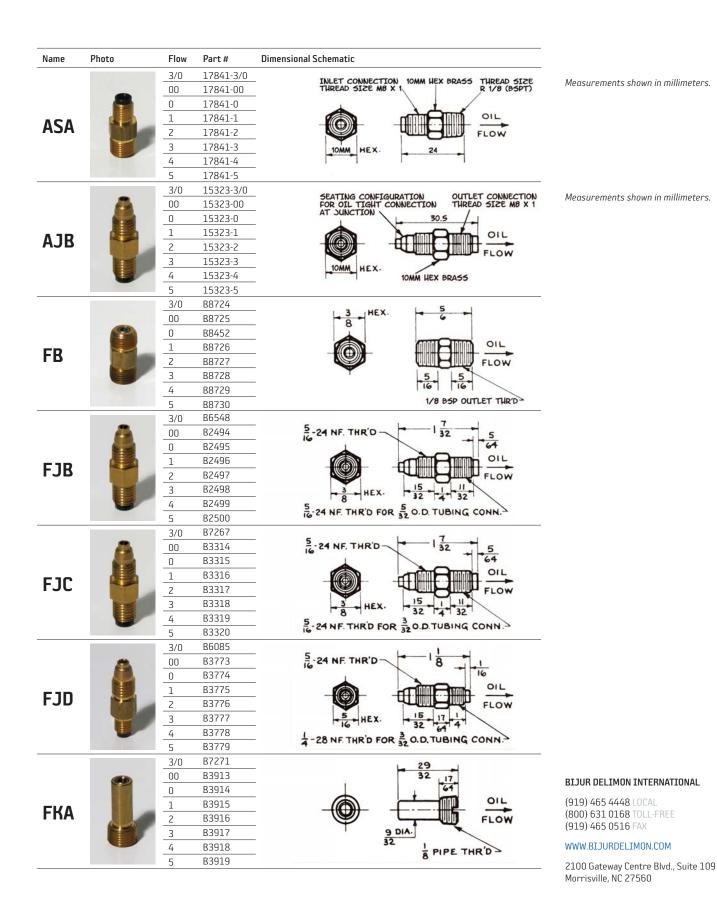
- 3/0- Extra slow
- 00- Slow 0- Medium slow
- U- Medium sid
- 1- Medium
- 2- Medium fast
- 3- Fast4- Extra fast
- 5- Extra, extra fast

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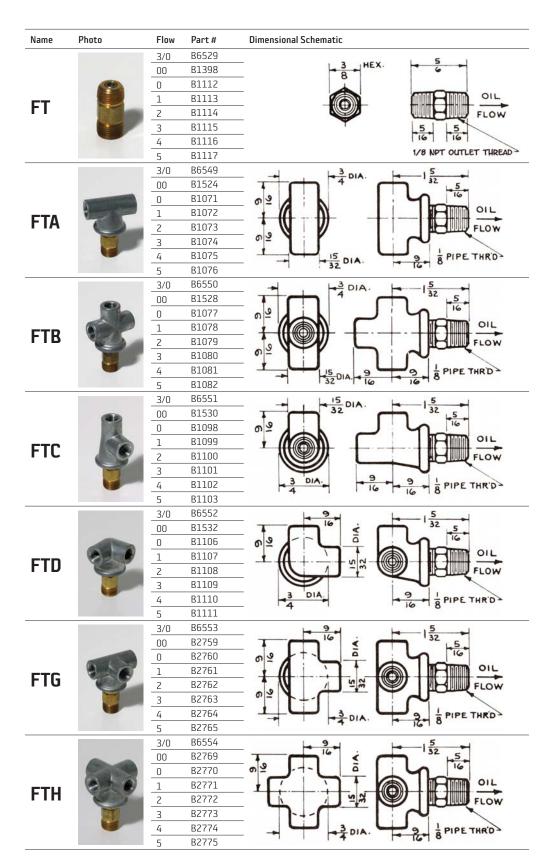
Name	Photo	Flow	Part #	Dimensional Schematic
		3/0	B7273	, 29, ,
FKB	*	00	B3980	29 17 32 64 OIL
		0	B3981	
		1	B3982	
		2	B3983	FLOW
	9	3	B3984	9 DIA. 32
		4	B3985	B PIPE THR'D 32
		5	B3986	8 1 1 2 1 111(2
		3/0	B8878	. 29
FKD		00	B8870	9 DIA.  B PIPE THR'D
		0	B8871	
		1	B8872	
		2	B8873	
		3	B8874	
		4	B8875	
		5	B8876	
		3/0	B8868	. 40
		00	B8860	17   32
FKE		0	B8861	- 17 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		1	B8862	الم الم
		2	B8863	FLOW
		3	B8864	9 DIA.
		4	B8865	B PIPE THR'D 32
		5	B8866	8 PIPE THRU
FRA		3/0	B7265	
		00	B2559	A PIPE THE'D
		0	B3215	
		1	B3216	OIL
		2	B3217	FLOW
		3	B3218	3 HEX. 15 19 5
		4	B3219	- 16 16 16 16 16 16 16 16 16 16 16 16 16
		5	B3220	TE-24 NF THR'D FOR \$5 O.D. TUBING CONN.
		3/0	B7269	
		00	B3579	B PIPE THR'D
		0	B3580	8 - 5
		1	B3580	mm OIL
FRC		2	B3581	FLOW
		3	B3582	3 5 19 5
		4	B3584	HEX. 16 64 16
		5	B3585	5-24 NF. THR'D FOR 32 O.D. TUBING CONN.
		3/0	B6526	
		00	B1620	3 HEX. 61
		0	B1020	8 5 4
		1	B1083	OIL
<b>FSA</b>		2	B1084	— <b></b>
		3	P1000	FLOW
		4	B1080	24 NF. THR'D FOR 15 1 15 16 16 16 16
		5	B1088	5 O.D. TUBING CONN.
FSB			B8717	0
		3/0	B8718	HEX. 64
		00	B8455	8 5
		0		- 64 mm
		1	B8719	— <b></b>
		2	B8720	FLOW
		3	B8721	5 -24 NF. THR'D FOR 16 16
		4	B8722	5 O.D. TUBING CONN. 1/8 BSP OUTLET THE'D
		5	B8723	TO DEF OUTLET THE

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Name	Photo	Flow	Part #	Dimensional Schematic
FTK		3/0	B6555	0 9 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0
		00	B4128	
		0	B4129	
		1	B4130	
		2	B4131	
		3	B4132	
		4	B4133	
		5	B4134	
FTL		3/0	B6556	9 6 32 5
		00	B4368	4 ININ
		0	B4369	02 1 1 10
		1	B4370	OIL OIL
		2	B4371	FLOW
		3	B4372	
		4	B4373	3 DIA 9 9 8 PIPE THR'D
		5	B4374	4 16 4 16
MJ	A	00	B8042	
		1	B8043	5-24 NF. THR'D
		2	B8044	- 64
		5	B9514	
UIJ				FLOW
				3 HEX. 15 1 32
				5-24 NF. THR'D FOR 1 O.D. TUBING CONN.
				16 ET III. TINGS TOR 8 S.D. TOBING COME.

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