



Operators Manual

PulseFire

36992 r#0



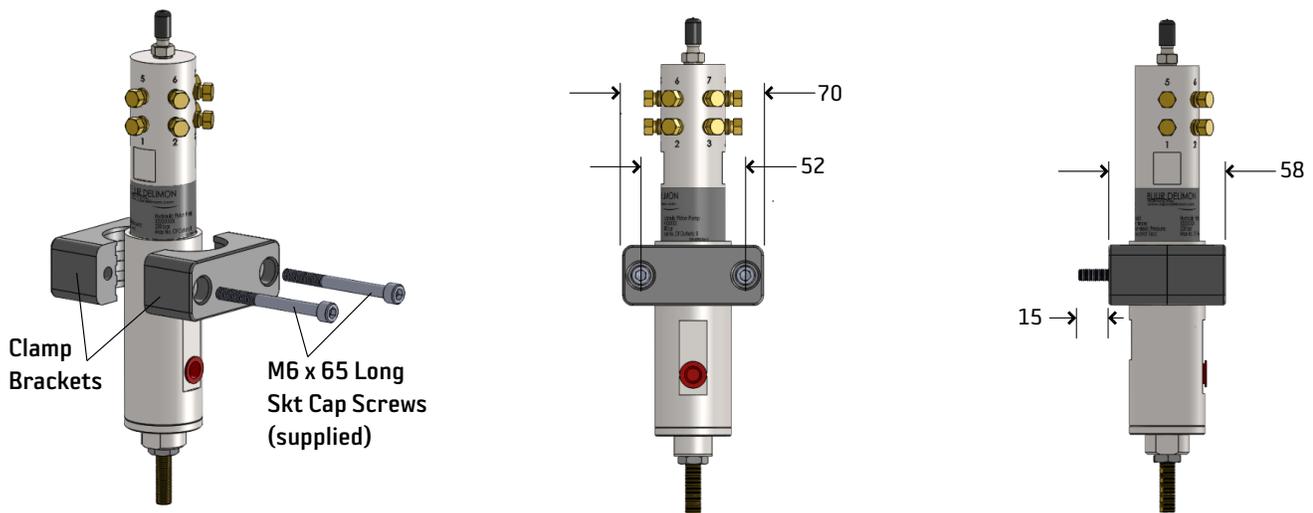
PulseFire Operators Manual Installation Instructions

Oiler Mounting

Oiler is supplied with a pair of clamp brackets and screws which securely clamps the oiler, while also providing the fixation for mounting to the equipment.

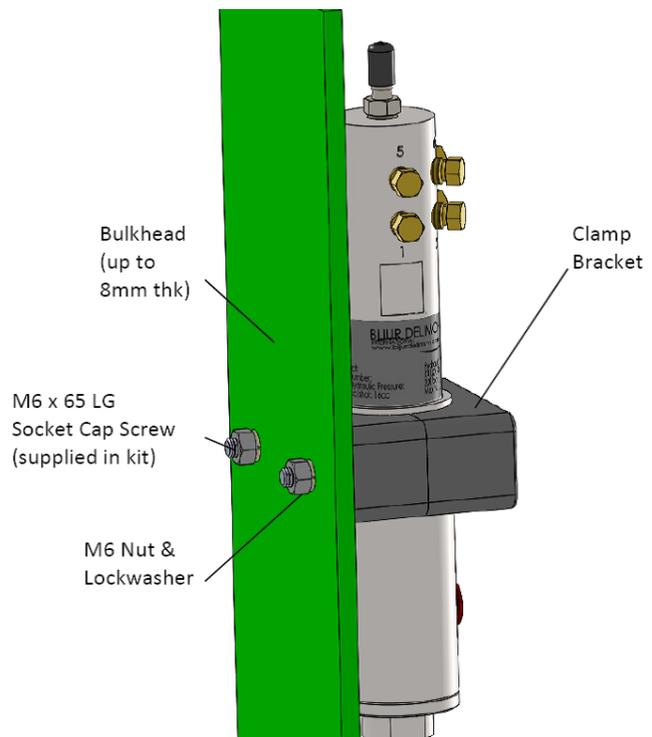
Oiler can be mounted horizontally or vertically.

Examples of Oiler below :



Oiler may be bolted directly to pre-tapped M6 holes (@52 centres) on the machine OR more usually, secured through a bulkhead (with $\Phi 6.5$ drilled holes @ 52 centres) and fastened with nuts and washers. The screws supplied enable mounting with either option.

When choosing location for oiler, bear in mind side clearances necessary for fitting the metering units and tubing



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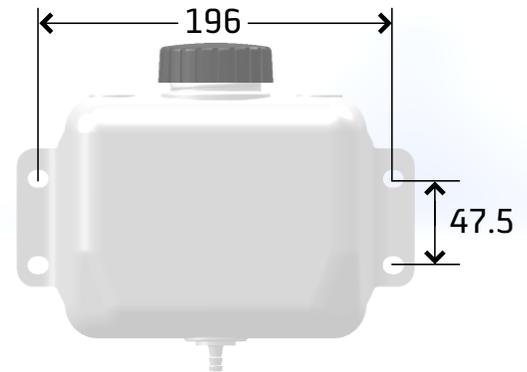
Reservoir Mounting

Choose a suitable flat location on the equipment to mount the reservoir. Reservoir should be visible and reasonably accessible for topping up lubricant.

Cap is vented and also tethered to prevent accidental loss or fall.

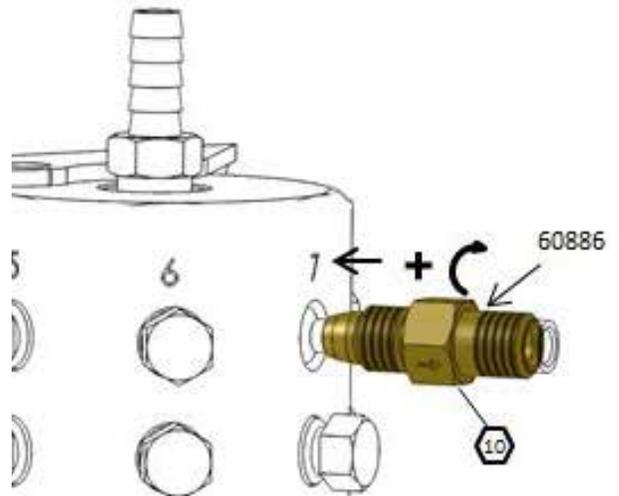
Mounting dimensions are shown below in mm. Mounting holes are suited for M8 bolts.

It is recommended to use a suitable plain and locking washer when mounting reservoir to equipment.



Metering Unit Installation

Oiler is normally supplied with 8 brass plugs on the 8 outlet ports. Depending on how many outlets are required, these plugs may be removed and replaced with metering units. The metering unit p/n 60886 should be inserted into the oiler, with the arrow pointing outwards. The end of the metering unit seals on the metal port of the oiler. Simply torque the metering unit, spanner tight. No o-rings, olives, sealing compound, etc. necessary.



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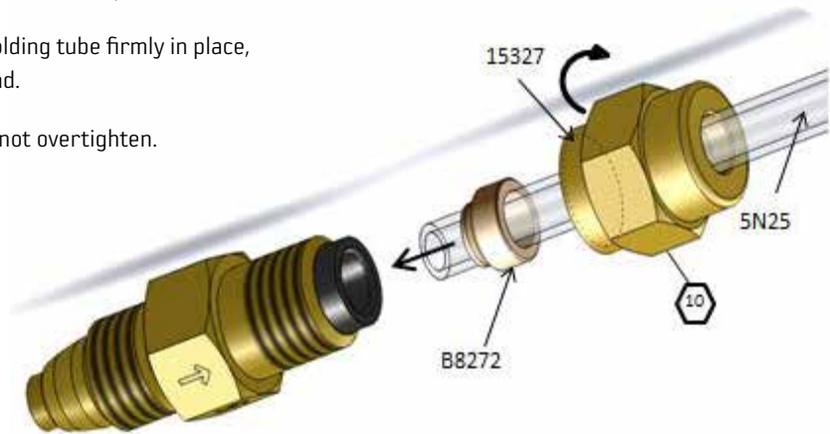
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Outlet Tube Installation

Outlet tube suitable for insertion into the metering unit, should be 4mm external diameter and made from a flexible but hard-wearing tube. BDI recommends our p/n 5N25 which is a clear, nylon material.

The tube should be installed as follows :

1. End of tube should be cut square with a dedicated tube cutter.
Do not use a snips as roundness of tube may be compromised as a result.
2. Slip on nut p/n 15327, followed by compression sleeve p/n B8272.
3. Insert tube into metering unit, and while holding tube firmly in place, slide up the nut and begin tightening by hand.
4. Finish tightening with a 10mm spanner. Do not overtighten.

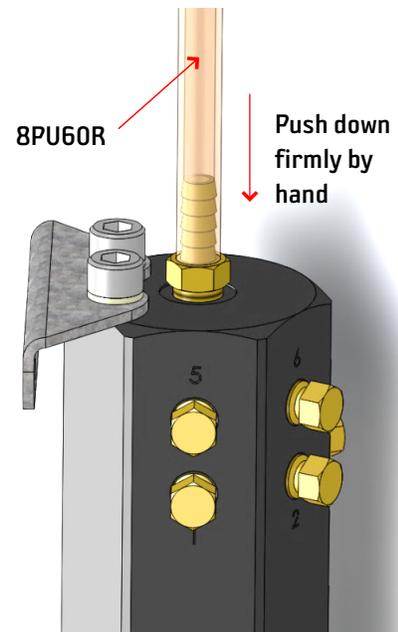


Inlet Tube Installation

BDI recommends our p/n 8PU60R as a suitable inlet tube from the lubricant reservoir to the oiler.

The tube can simply be pushed on firmly over the barb connection on the oiler. It is not necessary to use any additional clips to secure.

The tube should be pushed fully to the base of the fitting.



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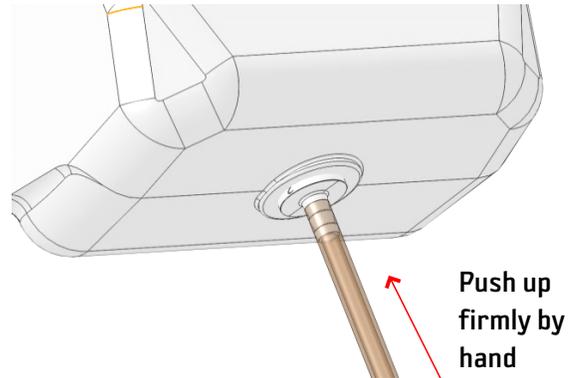
Reservoir Feed Tube Installation

BDI recommends our p/n 8PU60R polyurethane tube as suitable from the reservoir to the oiler.

The tube can simply be pushed on firmly over the barb connection on the oiler.

It is not necessary to use any additional clips to secure.

The tube should be pushed fully to the base of the fitting.



Brush Mounting and Tube Connection

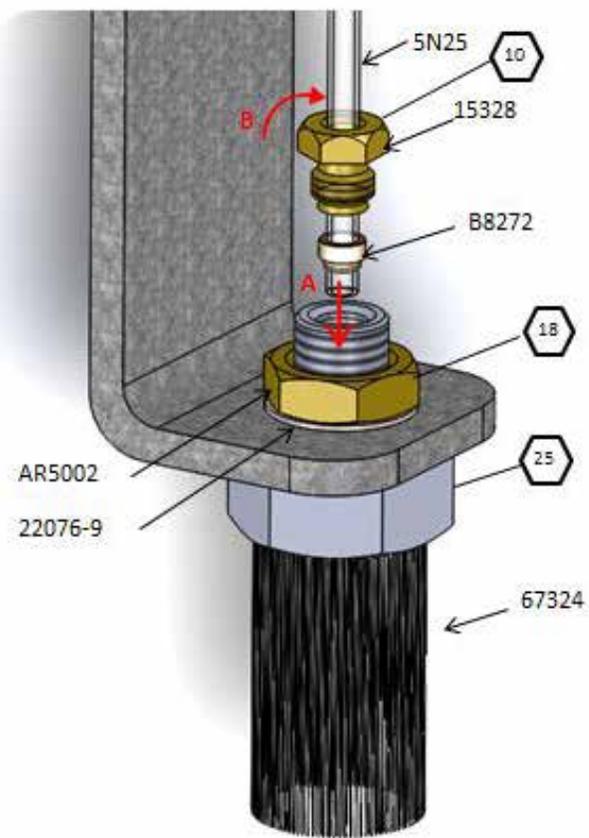
BDI supplies the brush p/n 67324, complete with toothed lock washer p/n 22076-9 and M12 nut p/n AR5002.

Appropriate mounting brackets are the responsibility of the OEM. The bracket would simply need a $\Phi 13$ hole or slot to mount the brush stem through.

Mount the brush from the underside, sliding the brush stem through the mounting hole. Fit lock washer and tighten nut with an 18mm spanner. It may be necessary to hold the brush hex with a 25mm (or 1") spanner until the washer gets a grip and resists the rotation.

Internally the stem of the brush is designed similar to the outlet ports on the oiler. The compression bushing p/n 15328 should first be introduced on the end of the tailtube, followed by the compression sleeve p/n B8272.

While holding the tube firmly and fully in the brush port, slide down compression bushing into the port, and commence threading by hand, until hand-tight. Finish tightening with a 10mm spanner.



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Hydraulic Connection

The hydraulic inlet is a G1/8" port to ISO1179 standard. It is located in the bottom cap of the oiler to the side.

Depending on the type of hydraulic hoses used on any machine, will dictate the type of fitting which should be fitted into this port.

The table below is just a small sample of such adapters from the Parker range.

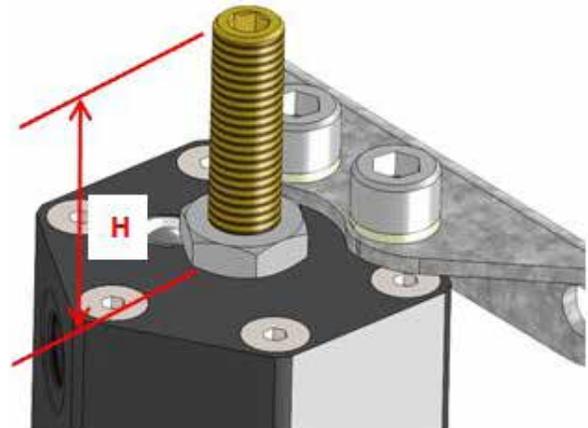
Hose Inside Diameter	O-Lok® (ORFS Adapter)	Triple-Lok® (37° Cone - JIC)	BSPP (60° Cone -ISO 8434-6)	DIN EO 24° Cone
1/8"				GE08LR1/8EDOMD
3/16"				
1/4"	4F42EDMLOS	4F42EDMXS	4F3MK4S	GE12LR1/8EDOMD
5/16"	6-2F42EDMLOS	5F42EDMXS		
3/8"	6-2F42EDMLOS	6-2F42EDMXS		

Adjusting Output Delivery

The oiler is designed to deliver a maximum of 15.4cc. However provision is made on the unit to adjust downwards this output as follows :

1. Loosen locknut at base of adjustment screw using a 13mm spanner.
2. Using a 4mm Hexagon key, adjust clockwise the brass screw to reduce the delivery. See table below.
3. Once the required delivery has been set, retighten the locknut.

"H" - Distance from top of screw to Base of Oiler (mm)	Output Delivery (cc)
29 (max)	15.4
23.5	12
20.2	10
17	8
13.8	6
10.5	4
7.3	2
4 (flush with locknut)	0



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Priming

1. Open reservoir cap and fill reservoir with lubricant.
2. Remove the inlet tube from the oiler and allow the lubricant to flow freely through the tube until all the air has been expelled.
3. Reconnect the inlet tube to the oiler. The system is now ready for priming process.
4. BDI recommends opening out the delivery adjustment screw to the maximum to facilitate quick priming.
5. Unscrew 1 of the plugs on any unused outlet, using a 10mm spanner. (If all outlets are used, remove one of the metering units)
6. Activate the hydraulics to the oiler, allow piston to advance to the end and then plug outlet port with the existing plug once more.
7. De-activate the hydraulics, allowing the piston to revert to home position, and slowly drawing in lubricant from the reservoir.
8. Repeat the process once again, unscrewing outlet port, releasing the air on activation of the piston, and then closing outlet port, creating a suction on the return of the piston.
9. Repeat 2 or 3 more times, until lubricant begins to be expelled out the open outlet port.
10. Re-plug the port once more. The oiler is now fully purged from air.
11. Depending on the lengths of the tail tubes, the oiler will need to be activated a further number of times, until the tubes are filled up and lubricant is arriving at the brush connection.

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