



## Engineering Data

### 60 GPM Steel Cyclone

The Cyclone Reservoir is designed to rapidly remove entrained air from hydraulic fluid. As the name implies, it efficiently accomplishes this task by way of well-known cyclonic action. As fluid is returned to the reservoir it is forced to revolve at a very high rate of speed. The heavier, non-aerated fluid is forced to the outside wall of the reservoir interior whereby it is available at the pump inlet port. The lighter air bubbles migrate to the center of the reservoir and are dissipated through the filler/breather cap.

Being far more efficient at removing entrained air than a conventional hydraulic reservoir, the Cyclone dramatically reduces the volume of fluid required to be stored within the reservoir. Reductions in reservoir size and installed weight of up to 90 percent are possible as compared to traditional reservoirs.

**Construction** - powder coated steel

**Diameter** - 13 In. (330 mm)

**Height** - 22.1 In. (562 mm)

**Space Claim** - 1.7 Cu. Ft. (51 liter)

**Maximum Flow Rate** - 60 GPM (227 lpm)

**Minimum Flow Rate** - 30 GPM (113 lpm) to insure adequate cyclonic action

**Suction Head @ Max Flow** - 0.25 PSI (1.7 kPa)

**Makeup Volume** - 2.76 GAL (10 liter)

**Total Volume**- 8.00 GAL (30 liter)

**Dry Weight** - 56.4 Lbs. (25.6 kg)

**Maximum Ambient Temperature** - 220° F (104° C)

**Maximum Pressure Capability** - 5 PSIG (0.35 Bar)

**Gradability** - 60% Grade (31° angle)

**Filtration** - the Cyclone Reservoir makes no claim to filter contaminants from the fluid. This task must be performed by way of external pressure or return line filtration.

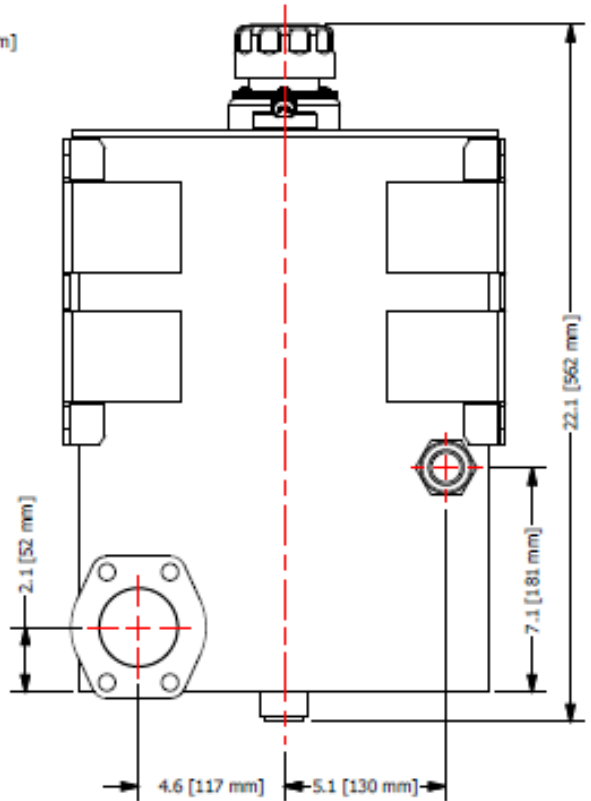
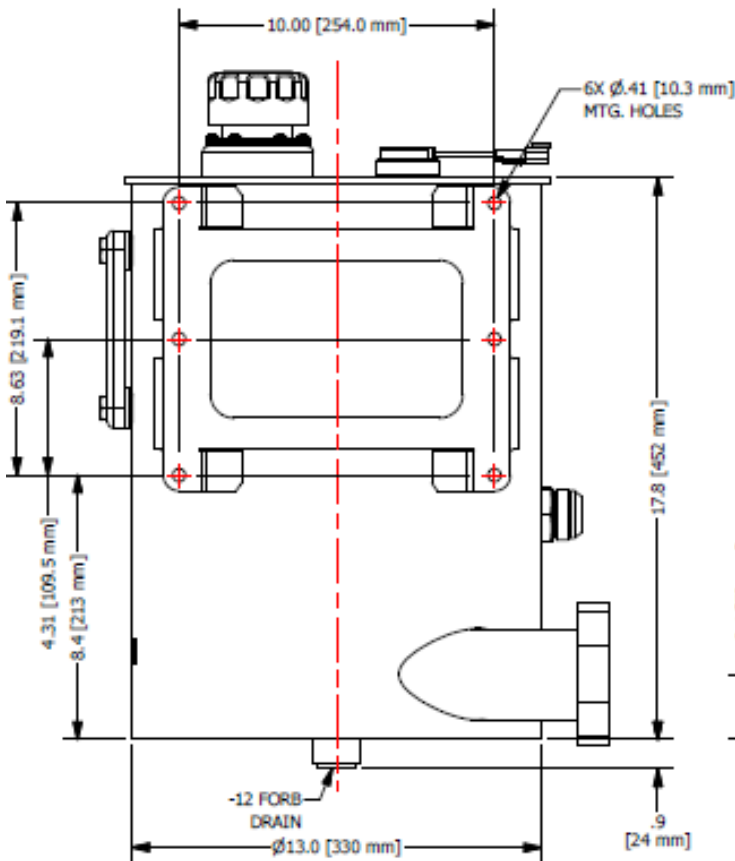
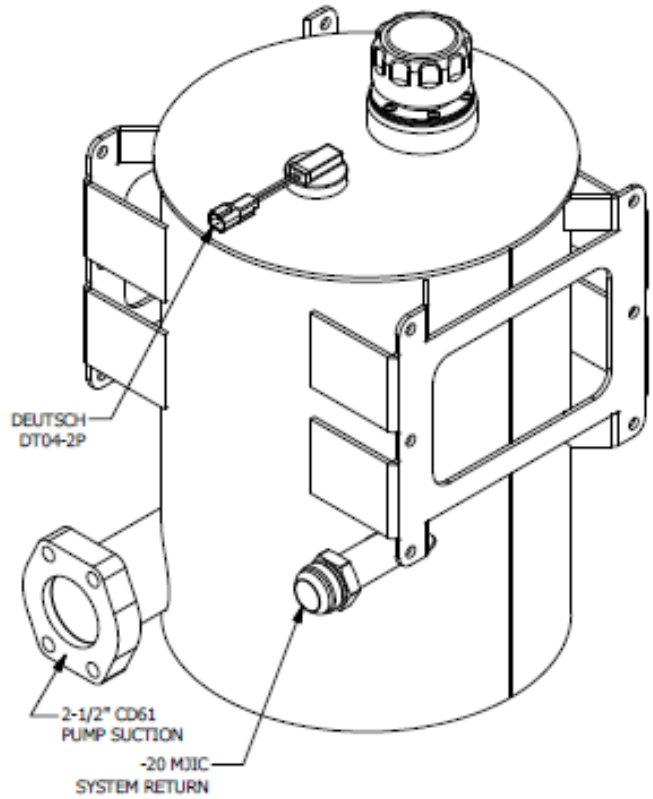
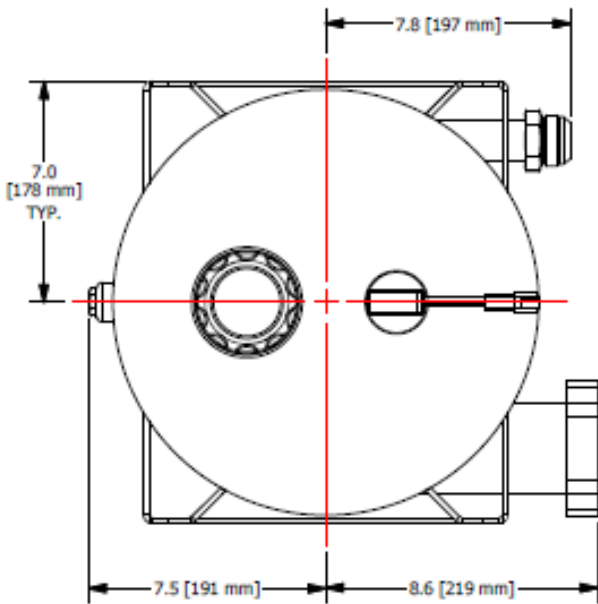
**Heat Exchangers** - the Cyclone Reservoir makes no claim to remove heat from the fluid. This task must be performed by way of external return line heat exchange equipment.

**Fluid Compatibility** - the Cyclone Reservoir is compatible with most traditional hydraulic fluids.

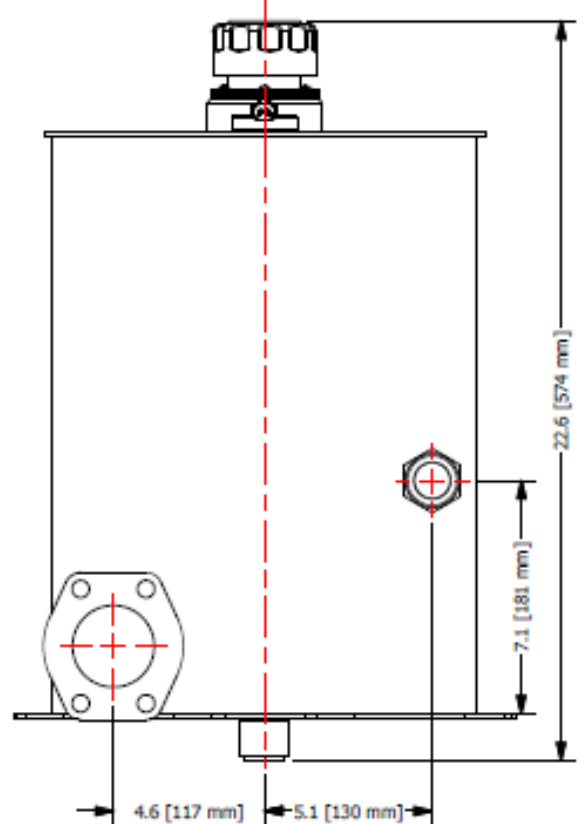
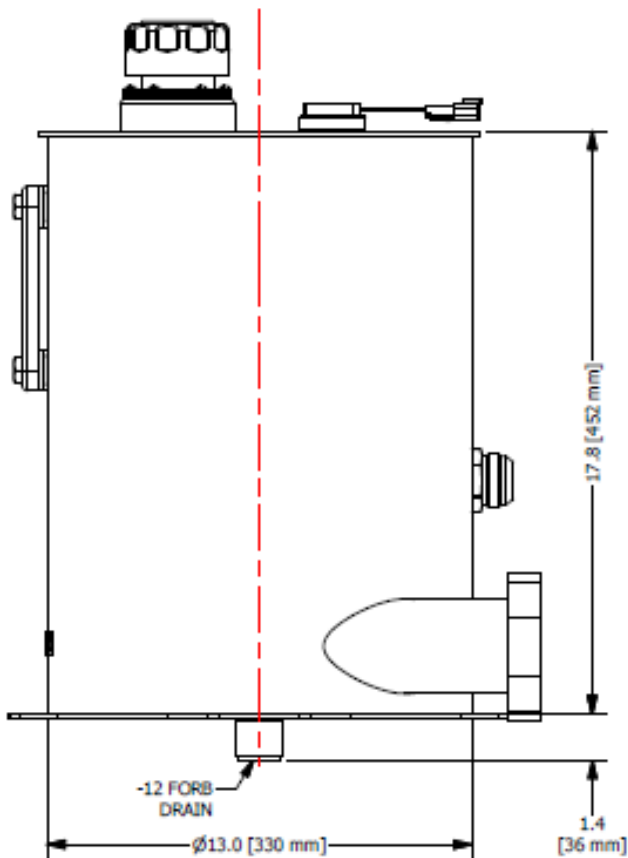
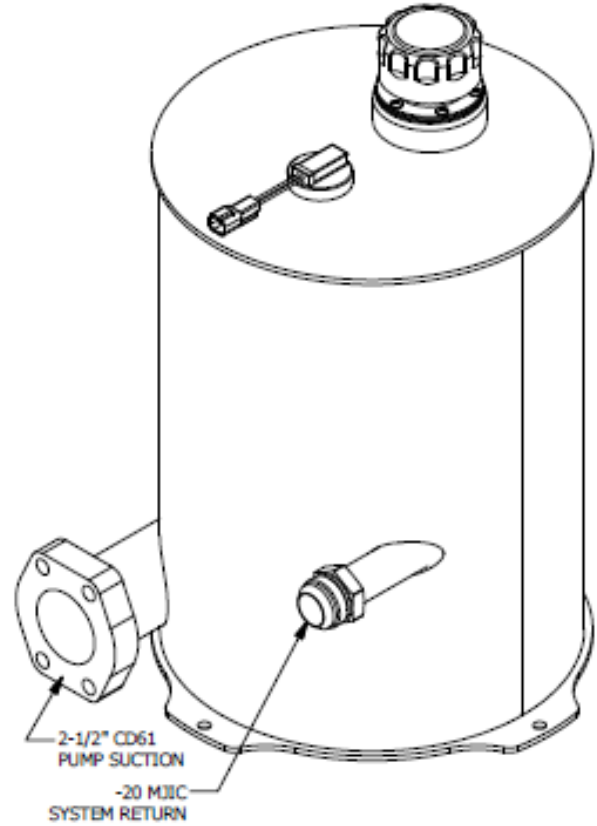
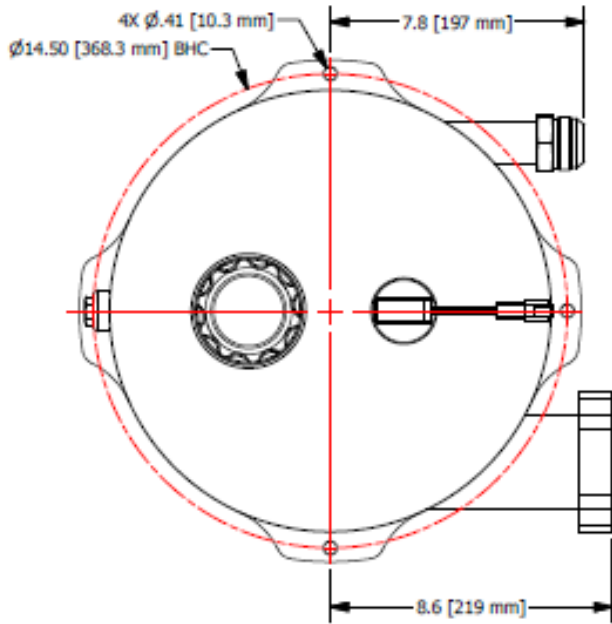
**Level Switch** - 12 or 24 Vdc, normally open when level is low. Max current equals 1.0 Amp. Connector is Deutsch DT04-2P.

**Installation** - it is recommended that each connection hose be clamped to the machine within 12" or the reservoir.

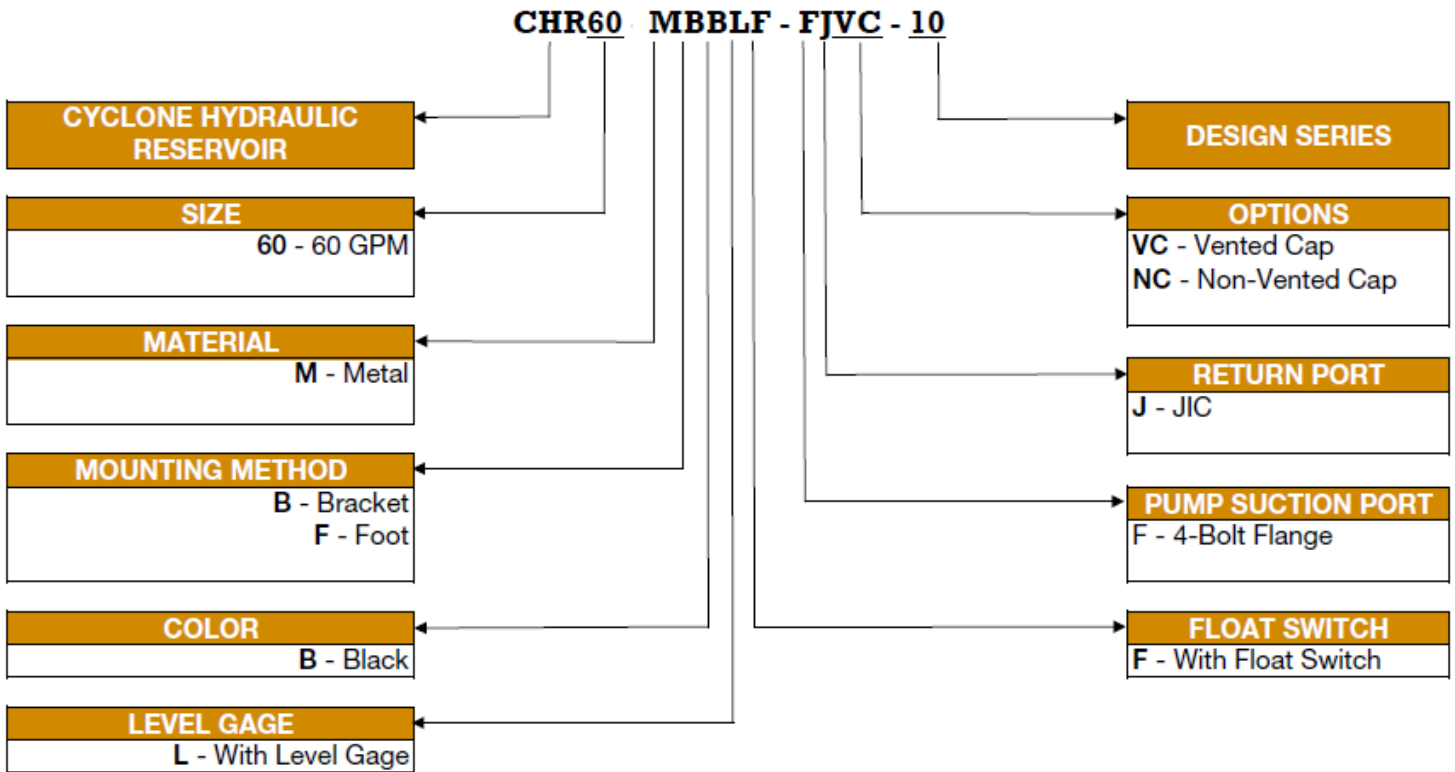
# Dimensional Data



# Mounting Options



# How to order



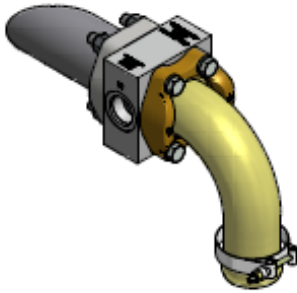
## Additional Items

As a best practice we recommend utilizing Aeroquip hydraulic hoses and clamps for the Cyclone Hydraulic Reservoir. Below are the corresponding part numbers for the 60 GPM Steel Cyclone.

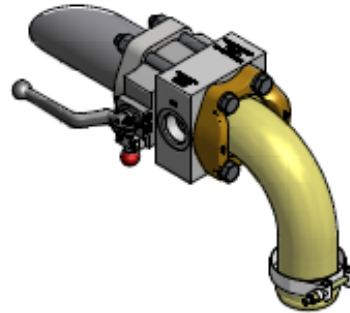
RESERVOIR	PORT	HOSE	HOSE CLAMP
CHR-60-M	<b>Suction</b>	2" Code 61 4-Bolt Flange	Not Applicable
	<b>Return</b>	#20 Male JIC	Not Applicable
	<b>Drain</b>	#12 Female JIC	Not Applicable

In addition to hydraulic hoses and clamps, there are a variety of companion flange options available. With straight, 45 degree and 90 degree fitting orientations, the Cyclone can be assembled multiple ways. Contact us today to learn the various options available for your application.

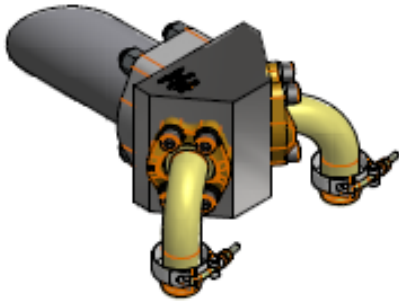
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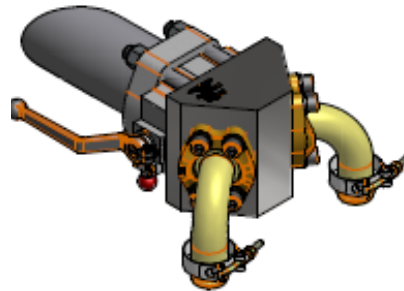
ASSEMBLED WITH MANIFOLD AND  
WIHTOUT SHUTOFF VALVE



ASSEMBLED WITH MANIFOLD  
AND SHUTOFF VALVE



ASSEMBLED WITHOUT SHUT OFF VALVE



ASSEMBLED WITH SHUT OFF VALVE

## Contact

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