AVIAID

SERIES 2

RACING'S MOST EFFICIENT DRY SUMP OIL PUMPS

The Series 2 pump is built in 4, 5 & 6 stage configurations for critical specification applications. Components are designed to deal with low weight oil and deliver efficient scavenge while retaining rock-solid reliability, survivability and efficiency that has characterized the AVIAID pump design since Tom Davis mounted the first 3 stage dry sump pump on Questor Grand Prix engine in 1968. Our specially featured pump sections serve these requirements in road race, circle track, marine and drag race applications. Mounts include SBC BBC, Bert/Brinn and KSE Cam cover mount bolt patterns.

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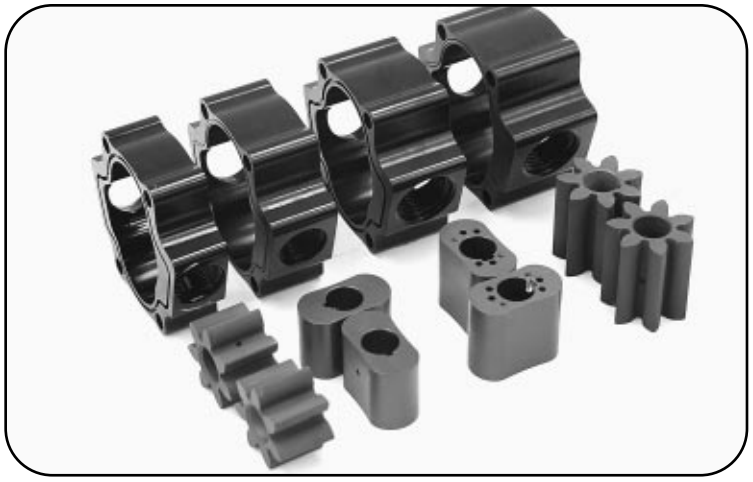
SCAVENGE SECTIONS

Four scavenge section sizes offer optimum matching of pump size to engine requirements. Made of aluminum, the scavenge section sizes are 1.00", 1.25", 1.50" & 1.75". The standard Teflon coated gear set delivers 40% greater displacement than the standard S1 gear set for the same section length. Scavenge capacity can be maximized with the optional Teflon coated Rootes type rotor scavenge section, offering an additional 25% scavenge capacity for maximum scavenge in the smallest package.

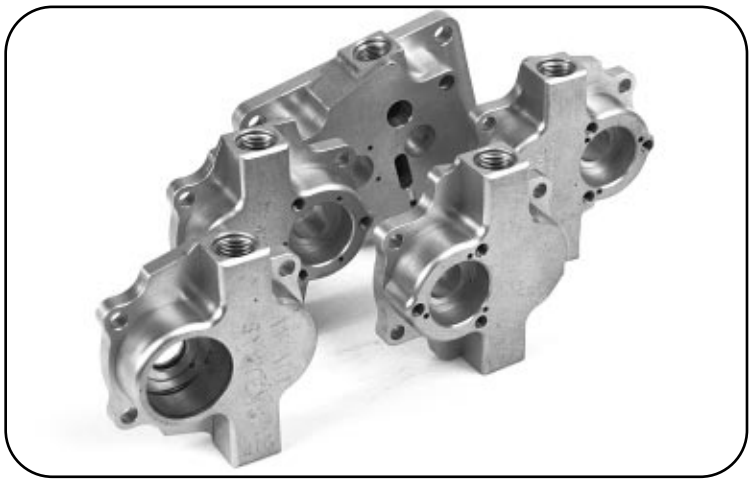


PUMP ENDS

Angled port pump ends allow for left and right side pump mounting configurations, in both standard and reverse rotation. Non-regulator configuration pump end accommodate mounting of most 3/8" hex drive accessory equipment.

REGULATOR SECTIONS

Five regulator sections allow placement of a regulated pressure section at the front or rear of a pump, in standard and reverse rotation configurations. All rear mounted regulator sections accommodate mounting of most 3/8" hex drive accessory equipment.

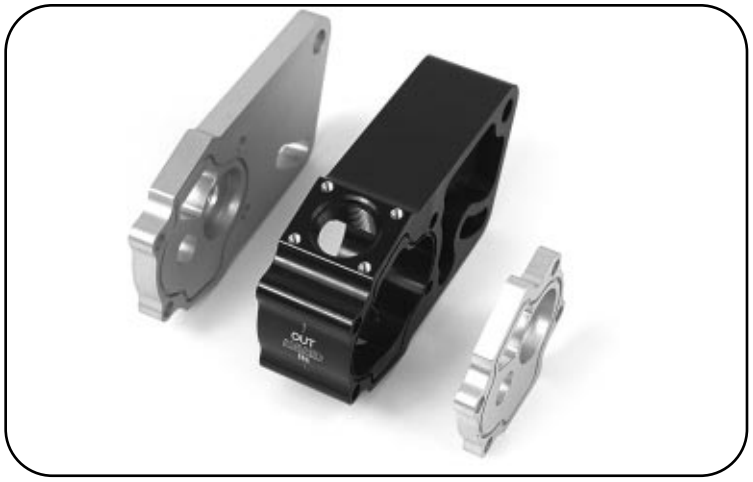


ANGLED SECTIONS

Standard pump housing ports are angled 14 degrees to facilitate hose connections in tight engine packages. Several optional port angle configurations are available in 1.25" and 1.50' scavenge sections to deal with difficult plumbing packages, one higher-angled and one lower-angled than standard.

PUMP MOUNTS

Pump mounting is accomplished using the typical pump mounting blade pair. Primary blades incorporate pump drive shaft bearings and idler shaft support fitment. Depending on mounting particulars mounting bodies incorporating pump housings allow further options in providing rigid pump fitment. Pump separators including the same shaft bearings and supports as primary blades are used in conjunction with mounting bodies and cam drive mountings..

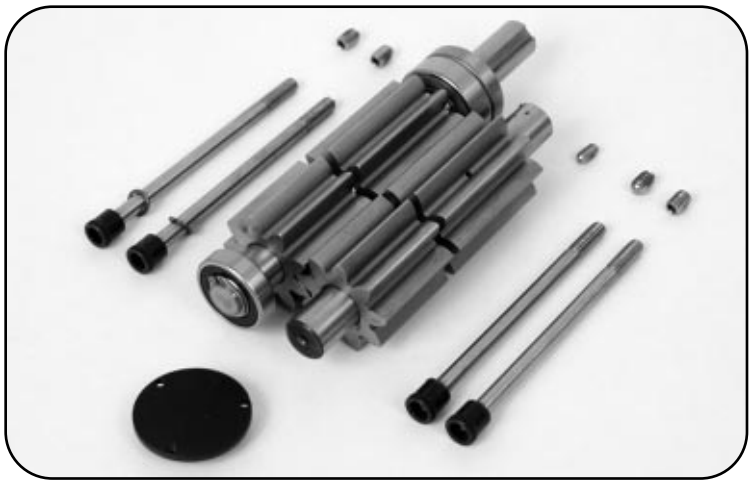


PRESSURE SECTIONS

Cast iron pressure sections are standard to accommodate the extreme performance requirements of “Zero” weight oils across the entire operating temperature range of the pump. 5 different sizes are available, 0.600", 0.800", 1.000", 1.250" and 1.500". This allows tailoring oil delivery to the exact requirements of the engine.

SHAFT & GEAR ASSEMBLIES

An important feature of Aviaid dry sump pumps is that they can easily be rebuilt in the field. Should debris enter the pump and cause damage to either the section or gears, replacement parts are available. These include gear sets (from .600" to 2.000" wide), drive and idler shafts, studs and lock screws.

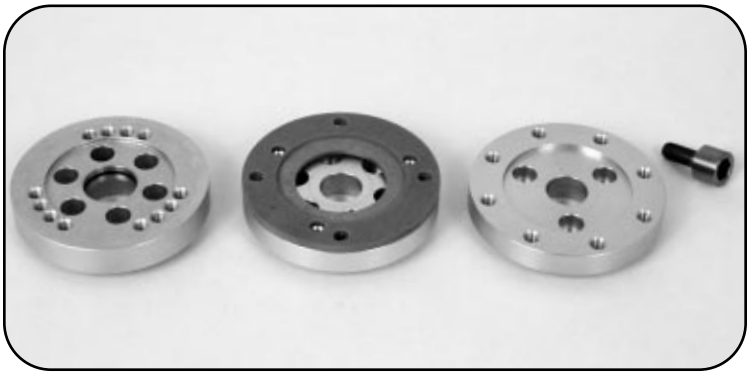


REBUILD KITS

Should an in-field rebuild be required, Aviaid offers rebuild kits for 4, 5 and 6-section Series 2 pumps. The standard kits include O-rings, key, snap-rings and all required fasteners. Deluxe kits also include bearings.

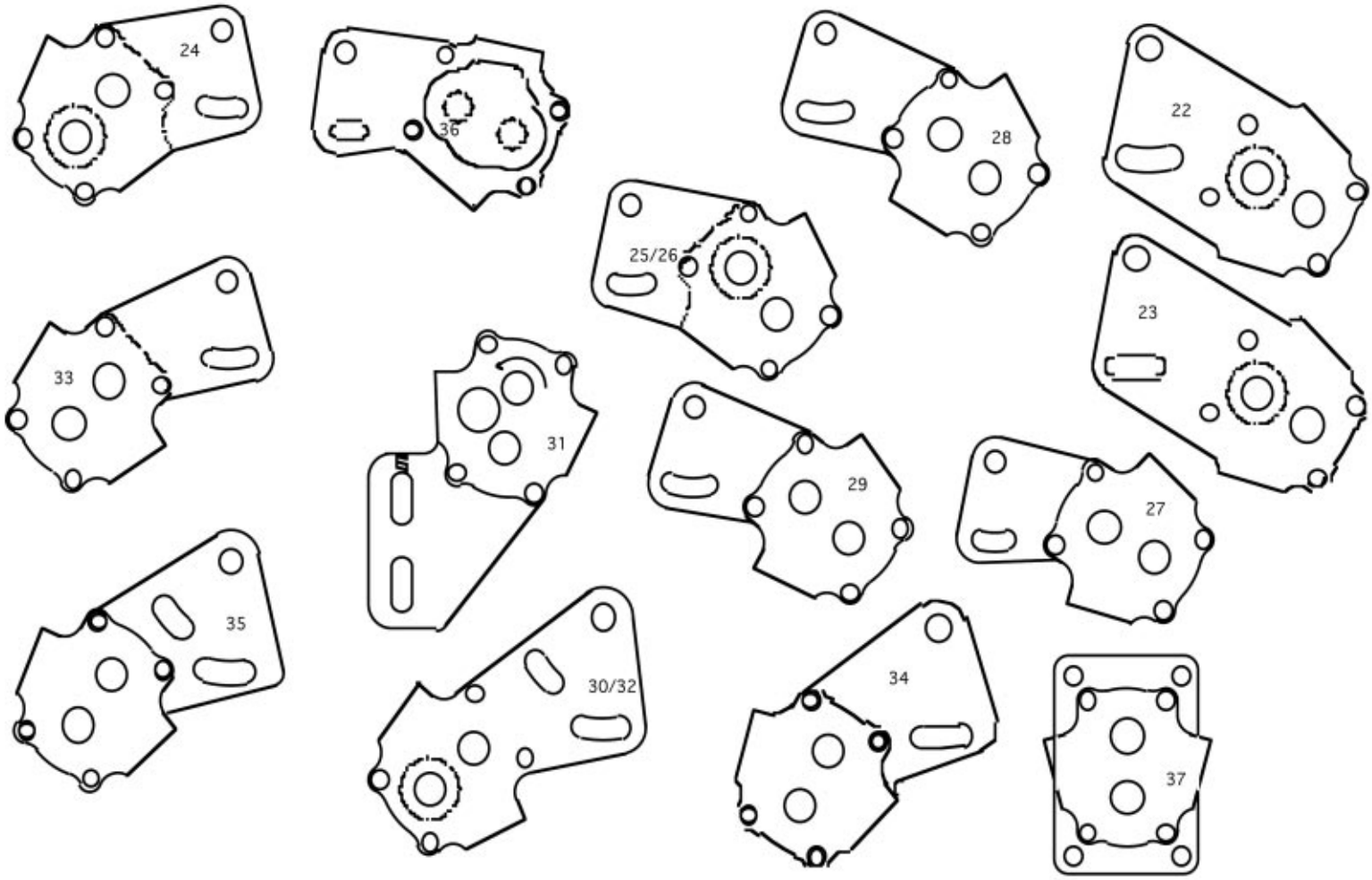
ACCESSORY DRIVES

A variety of accessory drives are available to accommodate various fuel pumps and power steering pumps.



MOUNTING BLADES

To facilitate the use of Series 2 dry sump pumps in a variety of applications, Aviaid offers a wide range of mounting blades. Here are drawings of the most popular Series 2 blades. New applications are being developed continually.



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