

**DIRECT  
PRIMING  
SYSTEM  
BY POWLEY**





Top Plate

Top Plate Gasket



Air/Oil Separation Filter

Filter Stabilizer



Coalescer Oil Tank

Oil Cap



Coalescer Low Oil Safety Switch



Coalescer Oil Feed Filter



Oil Feed Pipe



Return Oil Pipe



UTILE Vacuum Pump 25/65 cfm

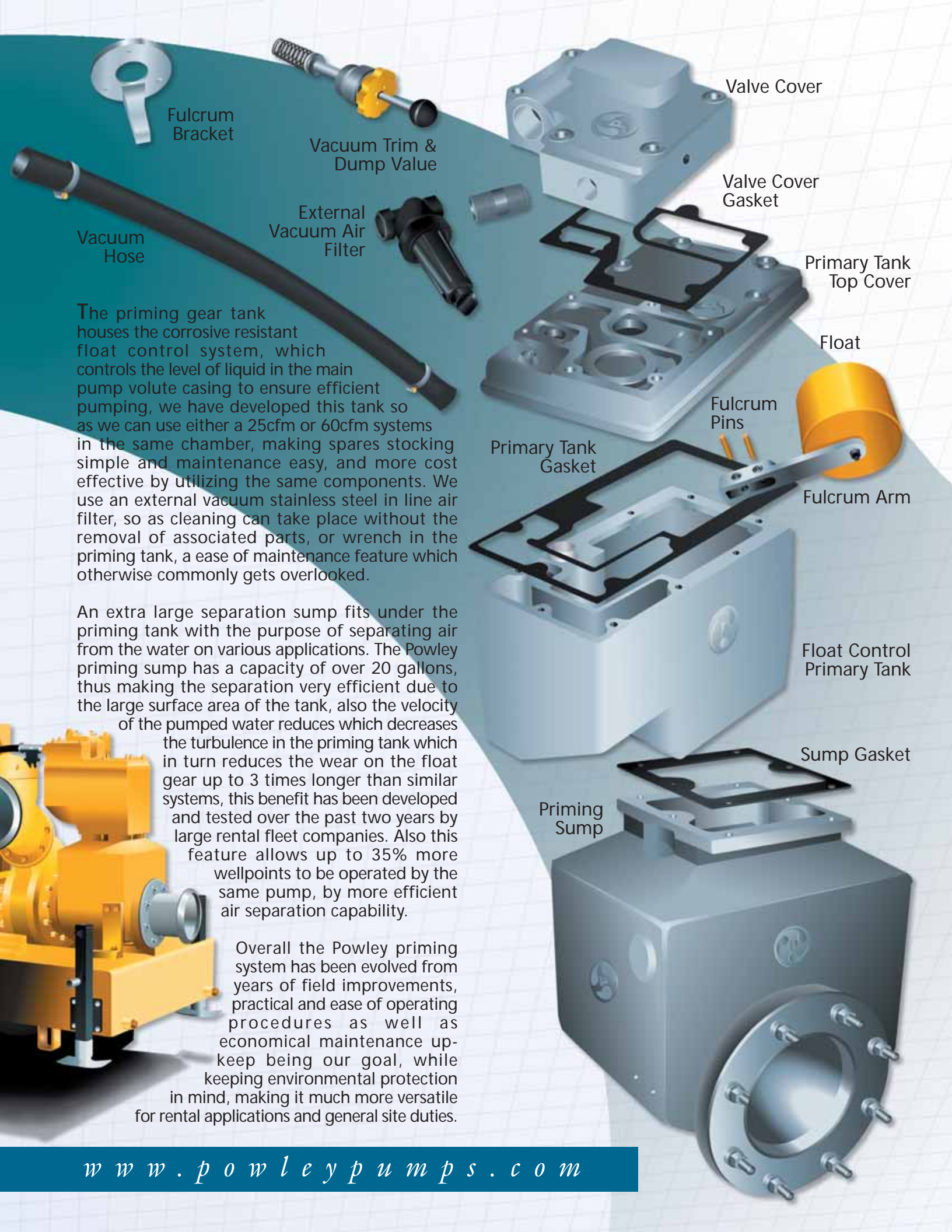
Vacuum Pump Drive Gears & Belt



# DIRECT PRIMING SYSTEM BY POWLEY

The Powley Direct Positive Vacuum pump is the well proven Utile SPB60 (60cfm) or SP25 (25cfm) capacity cool running, fully oil lubricated, with sealed return oil system, custom designed for pumps for uses from wellpoint dewatering to sewage overpumping applications, where high air flow is expected, also high solids with gases (raw sewage) can be primed much quicker and more reliably than other systems without the risk of "expelling pumped product" onto the ground creating an environmental issue, as some other systems use. The oil reservoir/oil separator tank (Coalescer Tank) is manufactured out of close grain alloy, with a extra large oil capacity of 5.5 gallons, with a condensing area of over 2 square feet, this allowing a near perfect condensing of oil from the oil as contained in the air/oil mixture being exhausted by the vacuum pump, this again an environmental feature as well as giving extra oil cooling to our system, crucial on high lift and wellpoint jobs, a low oil cut out switch is fitted and wired to the low oil switch on the diesel engine for safety purposes.





The priming gear tank houses the corrosive resistant float control system, which controls the level of liquid in the main pump volute casing to ensure efficient pumping, we have developed this tank so as we can use either a 25cfm or 60cfm systems in the same chamber, making spares stocking simple and maintenance easy, and more cost effective by utilizing the same components. We use an external vacuum stainless steel in line air filter, so as cleaning can take place without the removal of associated parts, or wrench in the priming tank, a ease of maintenance feature which otherwise commonly gets overlooked.

An extra large separation sump fits under the priming tank with the purpose of separating air from the water on various applications. The Powley priming sump has a capacity of over 20 gallons, thus making the separation very efficient due to the large surface area of the tank, also the velocity of the pumped water reduces which decreases the turbulence in the priming tank which in turn reduces the wear on the float gear up to 3 times longer than similar systems, this benefit has been developed and tested over the past two years by large rental fleet companies. Also this feature allows up to 35% more wellpoints to be operated by the same pump, by more efficient air separation capability.

Overall the Powley priming system has been evolved from years of field improvements, practical and ease of operating procedures as well as economical maintenance up-keep being our goal, while keeping environmental protection in mind, making it much more versatile for rental applications and general site duties.

# POWLEY PUMP PARTS

We carry a full range of Sykes and Acme compatible pump parts and spares, which are stocked in quantity at our workshops and warehouse in the Atlanta area.

25 and 65 cfm vacuum pumps available from stock.

Larger capacity on request.



*All parts of our priming system, apart from the vacuum pump & coalescer filters are manufactured and machined in the USA.*



## Distribution & Workshop

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