

Comparison	Lobe Pump	Discflo Pump
Dry Run Capability	No Tolerance	Infinite, as long as seal is externally flushed
Tolerances/Clearances	Lobe-lobe and lobe-casing clearance critical	No measure clearance between Discpac and Casing or seal housing
Abrasives	No tolerance	No long term effects; no impingement
Shear Capability	Special Care must be taken in Selecting pump Size capacity for minimum viscosity, due to slip Tends to cause problems some products (such as latex) to 'ball-up'	Little to no damage due to shear
Flow	< 50 gpm	> 50 gpm
Flow Movement	Turbulent; Pulsating	Laminar
Number of parts	Timing gear Set  Two Shafts  Two Lobes  Two Mechanical Seals or Packing sets	One Discpac Assembly  One Shaft  One Mechanical Seal or Packing set
Relief Valve	Strongly Recommended	Not Necessary
Maintenance	Delivery of parts can be long; down time cost can be extremely high; many customers maintain 100% standby	Usually no to little down time; parts availability generally off the shelves.