

DELTA P D PUMPS PRIVATE LIMITED



TWIN SCREW PUMPS



SERIES D2S

For all your pumping needs since 1968...

SALIENT FEATURES



DELTA Twin Screw pumps employ a unique principle that makes it the only choice for certain applications.

No other design of Positive Displacement Rotary pumps offer so much versatility in the operating parameters with guaranteed total reliability and maintenance-free service.

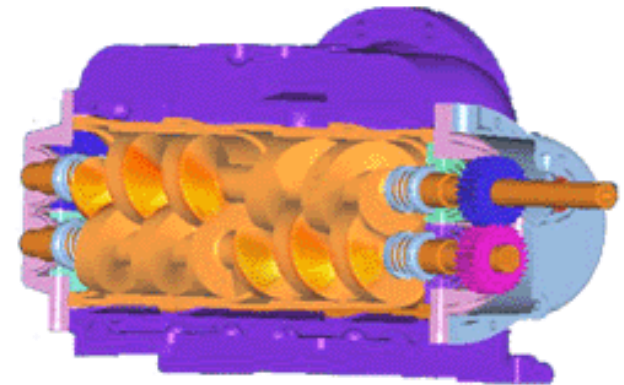
Twin screw pumps are considered to be the most versatile positive displacement pump.

It has the benefits of many PD technologies all in one design.



WORKING PRINCIPLES

- A pair of specially profiled screw, machined integral from solid stock and well supported on antifriction bearings run in precision bored interchangeable casing liners. Each screw set has one RH and one LH screw engaging with a similar but opposite hand screw pair.
- A pair of hardened and profile ground timing gears synchronize the screws to maintain a small but positive clearance between the flanks thus ensuring no metal to metal contact. The pumps can therefore run dry for sometime without any damage. This unique feature enables to run the pump even dry and handle fluids that do not have enough lubricating value and also very low or high viscous products.



Salient Features



- **Positive clearance between rotors**
- **Insensitive to varying viscosities**
- **No metal to metal contact between rotors**
- **Long maintenance free service**
- **Dry running capability**
- **Lowest NPSHR**
- **Negligible wear over years**
- **Shaft sealing at suction pressures**
- **Axial smooth steady flow**
- **Axial thrusts completely eliminated**
- **High speed running**
- **Interchangeable liner**
- **Pulsation free output**
- **Adaptability of various MOC**
- **Negligible vibrations**



TYPICAL PARAMETERS



- **Temperature: -30 to +350 C**
- **Viscosity: 1cSt to 50,000 cSt or more**
- **Pressure: Normal 16 bar/ 24bar, with special designs upto 50 bar**
- **Specialties: Partial heating/ complete heating/ cooling arrangements**
- **Sealing: Stuffing box/ mechanical seal with or without quenching/ heating/ cooling**
- **Mounting: Horizontal foot mount/ vertical pedestal**
- **Accessories: Relief valves, base frame, coupling, coupling guard, companion flanges, pressure gauges, electric motor/ diesel engines, variable speed drives and as per customer requirements.**

TYPICAL APPLICATIONS



- **Loading / unloading of fuel oil and other products from: Railway wagon rakes, Truck tankers, Barges, Ships and Tankers.**
- **Bulk cargo handling.**
- **Lubrication, circulation and cooling.**
- **Process pumping of high viscous products, bitumen, molasses, soap and similar products.**
- **Long distance pipeline pumping of viscous products.**



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THANK YOU

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