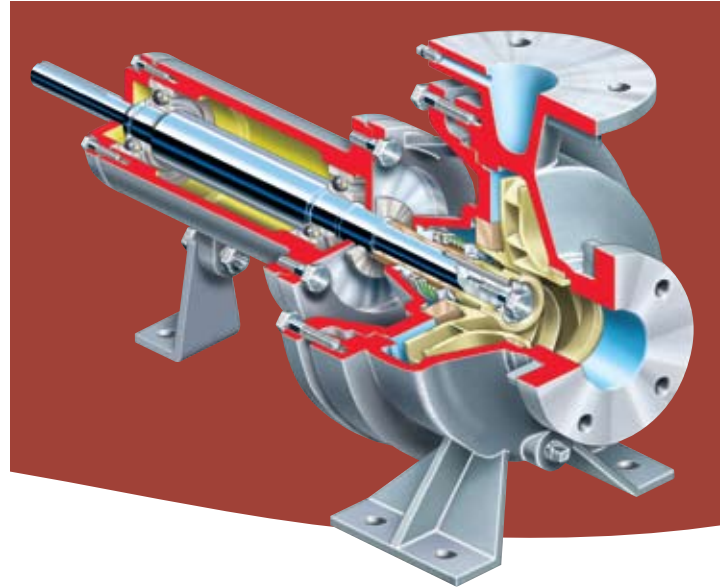


D800 Series

Frame Mounted and Close Coupled General Industry Pumps



Trouble-Free Operation for General Industry

The D800 Series of pumps has evolved as Flowserve engineers have reacted to the growing need for economical pumps for general industrial service. Covering a large flow and head range, the D800 is versatile and reliable. It is available in multiple configurations to suit site requirements and incorporates many proven features to reduce and facilitate maintenance.

Applications

- Water
- Light chemicals
- Coolants
- Building trades
- Brines
- HVAC
- Solvents
- OEM
- Light oils

Operating Parameters

- Flows to 455 m³/h (2000 gpm)
- Heads to 150 m (500 ft)
- Temperatures to 120°C (250°F)
- Pressures to 15 bar (220 psi)
- Speeds to 3600 rpm

Features and Benefits

Precision Dry-Rabbit Fit with one-piece adapter and seal cover ensures positive alignment and reduces maintenance downtime

Top Centerline Discharge Casing has bottom foot for added support; tap and plug holes for drain connections can be provided

Precision Cast High-Efficiency Closed Impeller is statically and hydraulically balanced to reduce power consumption. The impeller is keyed to shaft to provide positive drive and prevent spin-off. Balance holes minimize axial thrust and seal chamber pressure

Casing Nozzles conform to ANSI B16.1 specifications with a minimum 125 pound load rating. Threaded or flat-face flanged

Complete Mechanical Seal Assembly is pre-set on the shaft sleeve to ease assembly and reduce maintenance downtime

Renewable Wear Rings and Shaft Sleeves restore worn operating clearances and extend pump life at minimal cost

Bell Type Mechanical Seal Cover facilitates flushing and cooling

Sealed-for-Life Pre-Lubricated Motor Bearings provide two-year minimum life

Flexible Spacer Type Coupling allows pump internals to be removed without disconnecting motor leads or system piping

Optional Stainless Steel Inducer improves suction performance by reducing NPSHR

Versatility and Flexibility

D800 is available in two configurations and with a number of options.

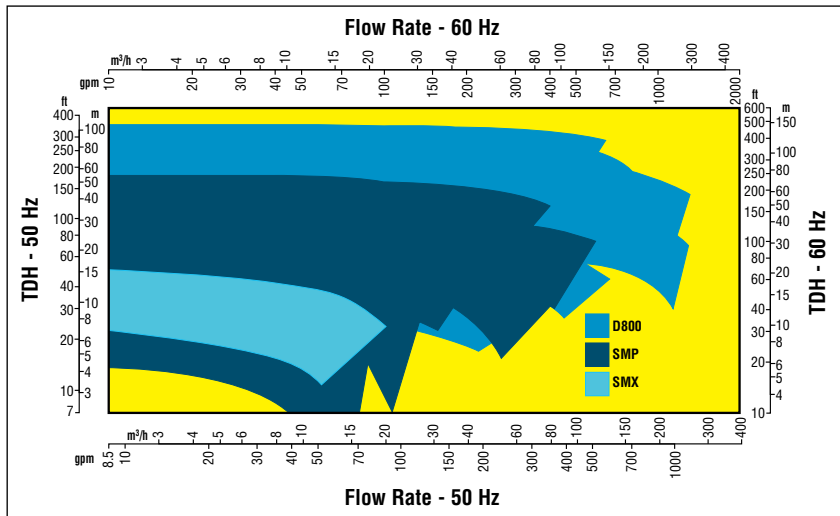
- Configurations
 - Frame mounted (D814)
 - Close coupled (D824)
- Threaded or flat-faced flanges; flanged connections available through 200 mm (8 in)
- Interchangeability between the frame mounted and close coupled configurations
- Liquid end can be mounted to standard bearing housing or directly to NEMA C-face JM (JMV) shaft motor
- Kit program
- Stainless steel suction inducer
- Coupling guard

Materials of Construction

Part	Standard Fitted		All Iron Fitted		316 Stainless Steel	
	D814	D824	D814	D824	D814	D824
Casing	Cast Iron - 25				316 SS	
Case Wear Ring*	Bronze		Steel		316 SS	
Casing Gasket	Synthetic Fibers with Nitrile Binder					
Impeller	Bronze		Cast Iron - 25		316 SS	
Adapter	Cast Iron - 25				316 SS	
Shaft Sleeve	Bronze			316 SS		
Shaft and Key	Steel (Bar)					
Casing Foot	Ductile Iron	N/A	Ductile Iron	N/A	Ductile Iron	N/A
Bearing Frame	Cast Iron	N/A	Cast Iron	N/A	Cast Iron	N/A

* Wear ring is standard with 225 mm, 300 mm and 375 mm (9 in, 12 in and 15 in) impellers; optional with all other sizes.

D800 Range Chart



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