TECHNAFLO

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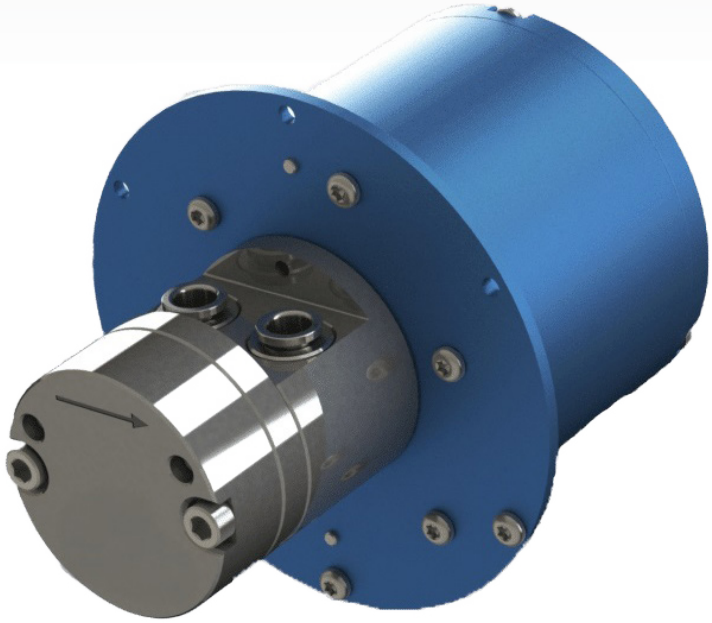


D SERIES

Powered by ORBIS™ Technology

Ingersoll Rand

ORBIS TECHNOLOGY

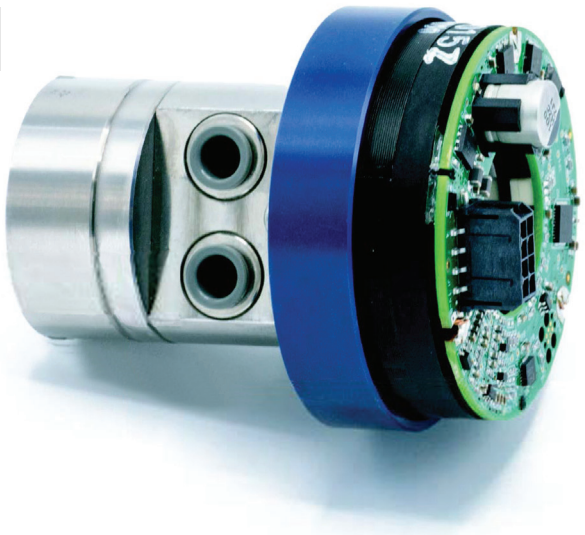
ORBIS Technology enhanced drive solution for Ingersoll Rand D Series pumps offers an integrated brushless DC motor with closed-loop control allowing customers to precisely manage performance requirements. This combination provided a reduced package size, long life, reliability, and a performance range that satisfies a high variety of applications. D Series external gear pumps provide non-pulsing flow while the seal-less design provide a leak-free pumping solution.

Suggested Applications

- Clinical Chemistry
- Continuous Ink Jet
- Dialysis Equipment
- Laser Cooling
- Slide Staining

Performance Range

Flow Range	up to 42 GPH (up to 160 LPH)
Differential Pressure	to 80 PSI (5 BAR)
System Pressure	to 150 PSI (10 BAR)
Viscosity	0.0 CPS to 2,000 CPS



12500 S. PULASKI ROAD ALSIP, IL 60803 USA
P: 1.708.389.2500 • F: 1.708.388.0869
INGERSOLLRAND.COM/PUMPS

INTRODUCING A NEW DARING SOLUTION...

Ingersoll Rand Group has drawn on over 125 years of positive displacement pump design and manufacturing experience to solve our customers' most challenging problems. Building on a vast knowledge of hydraulics, mechanics and electronics comes proven D Series pump powered by ORBIS Technology. ORBIS Technology enhanced drive solution offers an integrated brushless DC moto with closed-loop control delivering performance that satisfies a high variety of applications in a compact design with exceptional reliability and extended life.

D Series external gear pumps are known for their seal-less construction and non-pulsing flow which makes them perfect for precise circulating, dosing, and metering applications. If the application requires a leak-free, compact, and technically advanced pump, Ingersoll Rand's D Series pumps with ORBIS Technology is the solution.

Features

- Robust D Series Platform
- Compact Footprint
- Only Static O-Ring Seals
- Available Integrated Push-to-Connect Fittings
- Neodymium Driven Magnet
- Closed-Loop Speed Control
- Variety of Control Options

Benefits:

ORBIS Technology utilizes a closed-loop speed control system that achieves a set point for speed very quickly and holds this point independent of load which ensures fluid delivery will be consistent regardless of application and system variables. Standard product supports four-wire and two-wire configurations. The four-wire configuration allows speed control of 0 to 5 volts from 800 to 3600 RPM, tach out for speed monitoring reversing control, as well as fault-out and current-out. An alternate simplified two-wire configuration can easily replace a brushed motor in OEM applications.

Ingersoll Rand's robust D Series platform has proven performance and long life of up to 20,000 hours. The pump is driven by a Neodymium magnet that delivers 85 mNm of torque to cover a wide range of applications.

The compact footprint of ORBIS Pump and motor allows it to integrate into almost any application. Static O-Ring seals are leak-free and make field repair with service packs simple. Also, optional integrated push-to-connect tube fittings reduces installation time by at least 50% and saves additional space compared to traditional ports.

BIRKDALE CLOSE, MANNERS INDUSTRIAL ESTATE • ILKESTON, DERBYSHIRE DE7 8YA UK
P: 44.0.115.932.5226
INGERSOLLRAND.COM/PUMPS

SPECIFICATION DATA

DISPLACEMENT	PUMP	MAXIMUM SPEED	MAXIMUM DIFFERENTIAL PRESSURE	MAXIMUM SYSTEM PRESSURE	FLOW @ 0 PSI 3500 RPM
ML/REV	SERIES	RPM	PSIG (BARG)	PSIG (BARG)	GPH (LPH)
0.38	D	3600	80 (5.5)	150 (10.3)	20 (76)
0.57	D	3600	70 (4.8)	150 (10.3)	30 (114)
0.68	D	3600	60 (4.1)	150 (10.3)	36 (136)
0.80	D	3600	50 (3.4)	150 (10.3)	42 (160)

MATERIALS OF CONSTRUCTION

	D SERIES
Wetted Components	316 SS
Gears	PPS, PEEK
Bearing	PEEK
O-Rings	Viton, PTFE, EPR, Nitrile, or Neoprene
Magnets	Neodymium

316 SS = Stainless Steel | PPS = Polyphenylene Suflide | PEEK = PolyEtherEtherKetone | EPR = Ethylene Propylene Rubber

Ingersoll Rand

12500 South Pulaski Road
Alsip, Illinois 60803 USA
P: 708.389.2500

Birkdale Close
Manners Industrial Estate
Ilkeston, Derbyshire DE7 8YA UK
P: 44.0.115.932.5226
www.ingersollrand.com/pumps