

ARO

Flex-Check™ Diaphragm Pumps

For the handling of fibrous, semi-solid materials and clean fluids



Introducing Flex-Check

The versatile Diaphragm Pump fluid check arrangement that can handle fibrous semi-solids and mounts in any configuration.

Featuring flexible-yet-durable internal fluid checks with a slotted-reed design that permits stringy, fibrous materials to pass through the pump. Its compact size, rugged construction and ability to be plumbed and mounted in any of 360-degrees make Flex-Check the most flexible fluid handling pump available on the market.

Flex - Check Features

- Passes stringy and fibrous fluids and semi-solids (up to 1/8")
- Positive priming with higher suction lift (20%) improvement over ball valve designs.
- Non-Siphoning Performance - Once the pump is shut off, the fluid flow stops, prime is maintained.



360° Mounting

Flex-Check fluid checks allow the pump to be plumbed and mounted in any configuration. Making them ideal for applications where space is tight.

Flex Check: How it works

The Flex Check valve is a single-piece, molded rubber component that opens and closes in response to differential pressure across the valve. Under low negative pressure, the valve is in its normal, closed state - assuring a positive seal. As differential pressure increases, the slot in the valve opens. The greater the pressure, the wider the flexible valve opens to allow more fluid (and fibrous material) to pass. Because the check is soft and flexible, it actually conforms to the material as it closes, thereby maintaining good suction and optimum flow. Because the Flex Checks operate under this change in differential pressure and are normally closed, gravity is not required for the pump to operate properly. This freedom from gravity allows you to mount the Flex Check pump in any position!

Flex Checks are self-cleaning and demonstrate excellent resistance to abrasive, highly loaded fluids, including semi-solids up to 1/8".

Flex-Check Pumping; it's the ultimate OEM pumping solution.



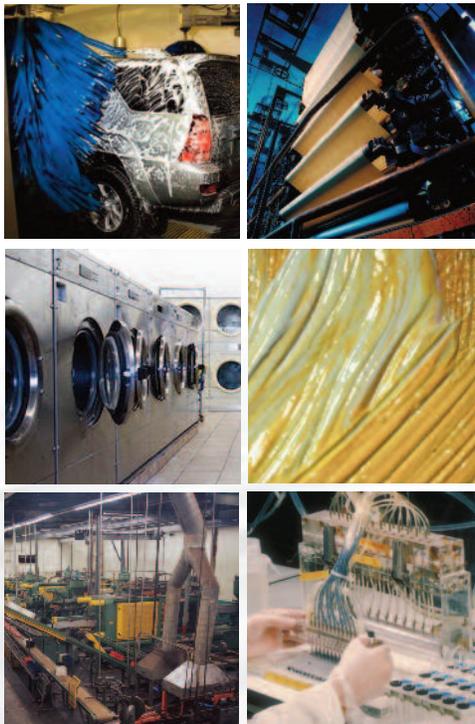
Markets / Applications

OEM

- Car Wash
- Flexographic-Inks, Printing
- Laundry

Industrial

- Chemical Dosing
- Low Viscosity Adhesives Supply



Ordering / Performance

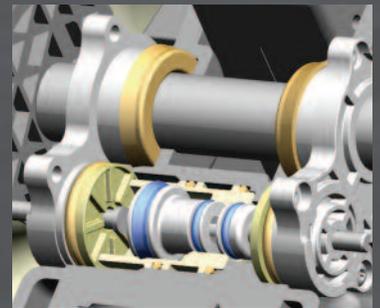
Models	Max. Flow (Flooded Inlet)	Max. Air Inlet Pressure	Max Outlet Pressure	Flex-Check Fluid Check Material	Diaphragm Material
PD03P-APS-OJC	8.7 GPM (32.9 lpm)	100 PSIG (.69 bar)	100 PSIG (.69 bar)	Nitrile	Hytrell
PD03P-APS-ONA	8.7 GPM (32.9 lpm)	100 PSIG (.69 bar)	100 PSIG (.69 bar)	Neoprene	Santoprene
PD03P-APS-OLT	8.7 GPM (32.9 lpm)	100 PSIG (.69 bar)	100 PSIG (.69 bar)	Viton	Teflon
PD03P-APS-OKA	8.7 GPM (32.9 lpm)	100 PSIG (.69 bar)	100 PSIG (.69 bar)	EPR	Santoprene

When we asked real pump users what they wanted in a compact pump, this is what they told us:

- ✓ Faster prime, with no loss of prime
- ✓ Good suction lift
- ✓ Ability to handle abrasives
- ✓ Ability to handle higher viscosity fluids as well as fibrous semi-solids without clogging up the pump
- ✓ Mounts and works in more than one position

And here is how we responded:

The ARO Flex Check Diaphragm Pump



Flex Check pumps feature patented ARO "simul-shift" and positive "O"-ring designs to avoid pump stall-out and costly air "blow-by".



Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

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