HYDROMINE™
PROJECTS INTERNATIONAL

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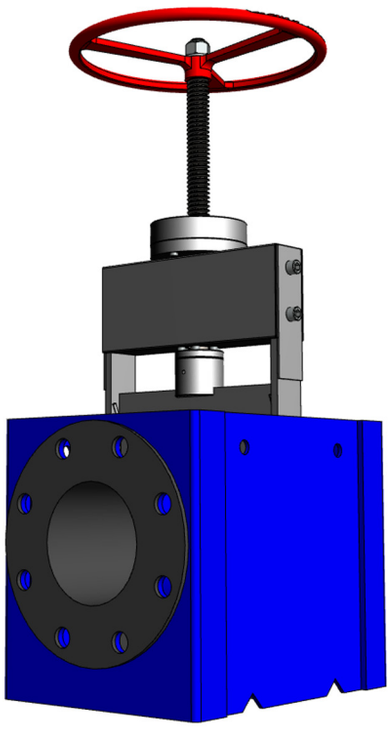
HYDROMINE™ LFC_22 Pinch Type Manual Isolation Valve (BARET Valve)

Overview:

The HYDROMINE™ LFC_22 Pinch type Manual Isolating valves (BARET Valve) were designed to be simple and easy to operate.

The HYDROMINE™ LFC_22 Pinch type Manual Isolation valve has been developed in conduction with Zimbabwe Valve's "BARET Valve" to present a robust, simple and cost effective (up to 2.5 MPa / 363 psi) solution to abrasive liquids handling issues in any industrial sector.



Operating Conditions:

The BARET Valve have a long history, being used in applications with slurries, pulps and a wide range of aggressive fluids, which are often difficult and costly to manage using other types of valves, such as gate, knife gate etc. The natural rubber sleeve formulation gives good wearing characteristics and long work life.

Simplicity:

The HYDROMINE™ LFC_22 Pinch type Manual Isolation valve (BARET Valve) is designed to minimize wearing parts. It is operated by a rising spindle, handwheel mechanism. The benefit of the rising spindle is that one can immediately see if the valve is open, close or partly open. As opposed to non-rising spindle valves where the valve position cannot be determined at a glance.

Low Maintenance Requirement:

The HYDROMINE™ LFC_22 Pinch type Manual Isolation valve (BARET Valve) sleeves are relatively easy to change should it be worn or ruptured. The non-rising spindle option in particular has the following features that help streamline and simplify maintenance: the bearings can be changed, with the valve remaining in situ, in the open position; a grease nipple in the bearing box enables easy lubrication of bearings; the spindle design allows for straightforward lubrication and cleaning; and lifting holes make handling and installation easier.

Robust, Reliable & Efficient:

The valve body are fabricated (as opposed of being cast), and it's structure a good rigid transfer of pipeline forces. The sleeve is well protected, in the tubular housing against external agencies, including sunshine, and damage by outside interference.

Flow Rates:

The valve offers a free flow with no flow restriction.

Actuation:

A wide range of electrical, pneumatic, and hydraulic actuators can be fitted on the valve.

Materials of Construction & Dimensions:

Part name	Material Specification	Valve size	Maximum Pressure Rating		Face to face	
Body	Fabricated carbon steel		(MPa)	(psi)	(mm)	(inch)
Sleeve	Natural rubber	DN50 / 2"	2,5	362,6	190	7,48
Spindle	431 S/Steel	DN80 / 3"	2,5	362,6	255	10,04
Bearing box	431 / 304 S/Steel	DN100 / 4"	2,5	362,6	305	12,01
Driving bush	LG 2	DN150 / 6"	2,5	362,6	406	15,98
Bearings	Thrust bearings	DN200 / 8"	1,6	232,06	520	20,47
		DN250 / 10"	1	145,04	635	25
		DN300 / 12"	0,6	87,02	750	29,53

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Design & Manufacture Standards:

The HYDROMINE™ LFC_22 Pinch type Manual Isolation Valve (BARET Valve) has been designed in accordance with various international standards.

Available sizes: DN50 / 2" to DN300 / 12"
Pressure rating: up to 2.5 MPa / 363psi

Available end connections: ANSI BI6.5, BS4504, BS10, AS/NZS 4331.1 (ISO 7005-1) DIN and other as per client's requirement.

Manufacturing Standards:

The BARET Valve has been manufactured to an ISO 9002 Quality Assurance System since 1994