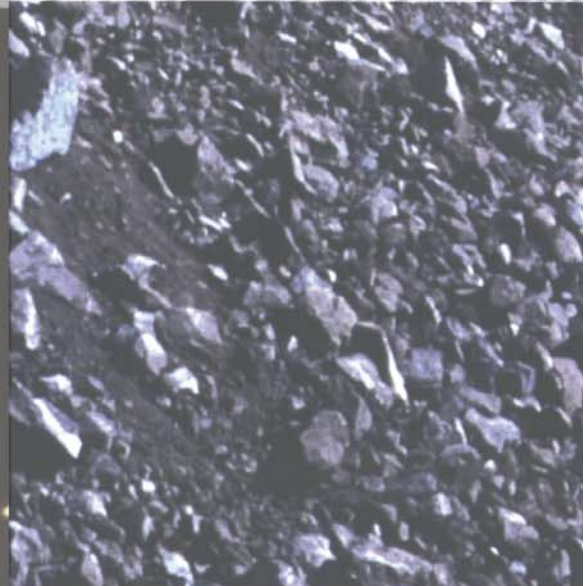


Diaval[®]

Diaphragm and Process Valves
www.diaval.com



DIAPHRAGM VALVES



www.diaval.com

Diaphragm Valves have proven to be the answer to many process engineers' greatest desire of reliability at an acceptable cost of ownership. Of simple and reliable design, diaphragm valves offer secure operation with full leak tight operation. The maintenance, when required, is limited to the replacement of the diaphragm, the bolted bonnet design permits the dismantling of the valve without removing the valve body from the pipe work.

The body's seatless design eases the internal lining, which opens a broad range of inexpensive options to process engineers when selecting materials resistant to corrosion and abrasion duties. Conventional isolating valves would require expensive exotic materials to resist the effects of severe corrosion whereas a fully lined diaphragm valve with an iron based body material can equal or surpass the performance.

The **DIAVAL** portfolio clearly meets the requirements of modern industrial processes and the needs of all engineers. Through constant product development and in house polymer research technology, DIAVAL Diaphragm Valves are a reliable alternative to existing costly and expensive to maintain conventional valves.

DIAVAL INTERNATIONAL manufactures one of the most comprehensive Diaphragm Valve portfolios, combining body linings, diaphragm grades and actuation, currently available in the international market. Your DIAVAL Team is available to guide you along a great cost saving experience.

DIAVAL range of superior design and major cost saving benefits, for secure and full leaktight operation under the most severe conditions.

The **DIAVAL** range is totally interchangeable with other diaphragm valves in the market thus easing the plant choice.

Valve stroke Indicator; a yellow position indicator gives clear and positive valve position from any angle.

Greased for life valve spindle; spindle chamber incorporates a grease reservoir that lubricates the spindle along operations thus avoiding valve spindle jamming. Sealed bonnet arrangements are available for toxic and hazardous fluids.

Valve stroke limiter; the bonnet design prevents over closure of the valve thus avoiding early diaphragm rupture.

Ergonomically Designed Hand wheel; great comfort and ease of operation. Other operation options such as actuators, padlocks, interlocks, extended spindle and others are available from DIAVAL.

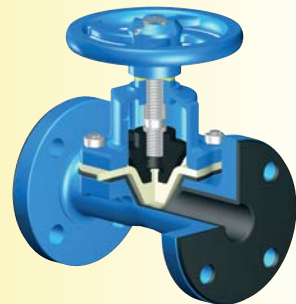
Self draining; weir valves are self draining when installed at an angle of 20° above horizontal. ST and Full Flow valves are self cleaning with an unobstructed bore.

Diaphragms; wide range of diaphragm materials to meet the needs of today's industrial processes and standards. Resilient diaphragms provide 100% leak-tight shut off and isolates all bonnet parts from the line fluid.

Safety; Optional Sealed bonnet arrangements available for toxic and hazardous fluids, Interlocking arrangement, padlocking and flange sealing coating.

Linings; porous free chemically resistant linings designed to eliminate the need of expensive metals. Wide range of polymers and fluoropolymers available to match all industrial needs. Full face rubber lining removes the need for gaskets unlike spigot face lining.

Body end connections; flanged and screwed ends to meet all European, Imperial and American standards. Other end styles available for the aseptic range.





Unlined Valves

Specifically suited to handle corrosive and general applications, it permits the larger options of linings and diaphragm grades to be combined. Given the shorter valve stroke, it is the preferred option to fluoropolymers lining and the only design suiting to PTFE diaphragms.

Diaval Weir Diaphragm Valves allow for more diaphragm cycles with less running and downtime costs, its pocketless design avoids line fluid contamination. Weir valves are the option when flow control is required.



Rubber Lined Valves



Fluoropolymer Lined Valves

The range is comprehensive of the following specifications:

Unlined Body Materials
Grey Iron * Ductile Iron * Cast Steel * Stainless Steel * FeCr * Monel
Rubber Lined Bodies
Hard Rubber (Ebonite) * Soft Rubber * Butyl Rubber * Neoprene® Rubber * Hypalon® Rubber * EPDM * LINATEX *
Fluorocarbon Lined Bodies
PFA * EFTE * HALAR * PVDF *
Size Range
DN 10 – DN 300 (3/8” – 12”)
Body End Connections
Threaded BSPP – NPT * Flanged DIN, BS, ANSI
Actuation
Manual Hand wheel * Pneumatic Actuators * Electric Actuators.
Options
Sealed Bonnets * Vacuum Reinforced Diaphragms * Extended Bonnets * Padlocking * Interlocking



Unlined Valves



Rubber Lined Valves



**Full Flow Type
LINATEX® Lined Valves**

Specifically suited to handle erosive and abrasive applications, its unobstructed full bore provides excellent performance with low pressure drop. At valve fully open it offers a self cleaning design. It is the best choice for dirty, contaminated and powder media.

Slurries are efficiently handled by the Straight Through Valve design. Unlike Weir valves, the larger valve stroke restricts the use of diaphragms to rubber compounds only.

Diaval Straight Through Diaphragm Valves are comprehensive of all general design advantages leading to cost saving benefits.

Also suited to handle erosive and abrasive applications, the **oversized bonnet** ensures unobstructed full bore while providing minimal low pressure drop. It results in a velocity reduction and therefore makes the valve more abrasion resistant. Operating the valve is also made easier because of an oversized handwheel. At valve fully open it offers a self cleaning design. It is the best choice for dirty, contaminated and powder media. Slurries are efficiently handled by the Full Flow Valve design. Like Straight Through valves, the larger valve stroke restricts the use of diaphragms to rubber compounds only.

Diaval Full Flow Diaphragm Valves are comprehensive of all general design advantages leading to cost saving benefits.

The range is comprehensive of the following specifications:

Unlined Body Materials
Grey Iron * Ductile Iron * Cast Steel * Stainless Steel * FeCr * Monel
Rubber Lined Bodies
Hard Rubber (Ebonite) * Soft Rubber * Butyl Rubber * Neoprene® Rubber * Hypalon® Rubber * EPDM * LINATEX *
Fluorocarbon Lined Bodies
PFA * EFTE * HALAR * PVDF *
Size Range
DN 10 – DN 300 (1/2" – 12")
Body End Connections
Threaded BSPP – NPT * Flanged DIN, BS, ANSI
Actuation
Manual Hand wheel * Pneumatic Actuators * Electric Actuators.



The **DIIVAL® actuation** range comprises own brand and outsourced actuators and control accessories for diverse applications.

Weir valves up to DN 50 can be fitted with compact type actuators, they are integral with the bonnet assembly permitting quick and easy assembly and replacement without the need to remove the valve body from the pipeline. It is a compact solution that saves installation space and permits better handling. The actuators are available both for single acting (NC and NO) and double acting.

For Weir valves DN 65 and above and the full range of Straight Through valves, Diaval has developed a range of yoke type, spring and diaphragm actuators which permit trouble free operation throughout a large diversity of air supply and line pressure conditions.

The actuators are available both for single acting (NC and NO) and double acting. This series of actuators is fitted with hand wheel override as standard.

The actuation range is complimented by a number of control accessory options such as solenoids, limit switches, compression tubing, air flow regulators, positioners and so on.





DIAVAL® Sanitary-Cast valve range

Diaval® Sanitary-Cast Diaphragm Valves are the recommended choice for flow applications in the food, beverage, dairy and brewery industries as well as certain bio-process and pharmaceutical applications. Diaphragm Valves are ideally suited in situations where unobstructed flow, throttling and positive shut-off are required for sensitive or troublesome flow media. The Diaphragm isolates the process media from the environment and all moving parts of the valve and so protecting the media from contamination while preventing it from interfering with the valve operation.

The valve body is free of any entrapment areas and is self-draining when mounted in a line having a 2 deg incline.

Diaval® Sanitary-Cast Diaphragm Valves are manufactured to the highest standards of the investment cast process thus ensuring a high quality casting with excellent surface finish.

Standard bodies are electro-polished to provide a bright finish and the interior surface is mechanically polished to 150G (25 Ra).

Other surface finishes are available on request.



DIAVAL® Aseptic and Bio Tec valve range

New synergies have been established with a leading European designer and manufacturer of ultra pure aseptic valves for the pharmaceutical and cosmetics industry. The valves are badge manufactured for **DIAVAL** and accommodates to every individual customer requirement. They are, basically, customer oriented valves having all accreditations and certifications needed in this industrial field.

Designs range from "conventional" patterns to tailor made solutions such as block bodied valves, flush bottom, manifold disposal and with all grades of polished finish.

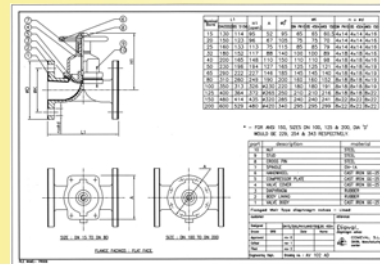
The Bio Tec line is complemented with the genuine **DIAVAL** sanitary cast valve for food and dairy industries.

More details and data sheets will be soon available through our **DIAVAL** site.

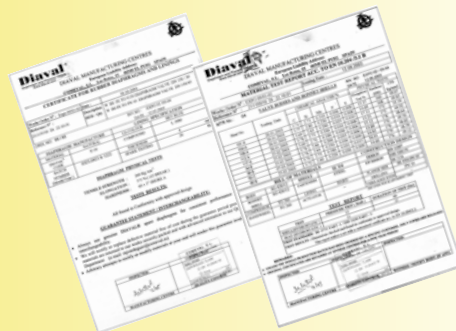
Total Traceability ...



Latest Design Techniques ...



Testing & Certification ...



Approvals ...



OTHER PRODUCTS



**Ball, plug and butterfly valves for process
DIAVAL RANGE**



***Chemical * Petrochemical * Water Treatment * Mining * Phosphates * Fertilizers *
 Sugar, Mills * Pharmaceutical * Food & Beverages * OEM * Marine * Plastics***

Diaval® Customer Reference List - Partial and Non Exclusive List:

O.C.P. (Morocco)	Rhodia (Belgium)	Shell - ENEL (Italy)	IQA - Shell (Spain)
Bechtel (United Kingdom)	Solvay (Belgium)	BASF (Germany)	Dow Chemicals (Spain)
Mopani Copper Mine (Zambia)	Metito - Vivendi Water (Saudi Arabia)	Technimont (Italy)	Cadagua (Spain)
Cairo Oil Refinery (Egypt)	Quimigal (Portugal)	Jordan Phosphates (Jordan)	Veolia Water (France)

Global Service with a touch of local identity ...



... Across the Globe, there is a Diaval agent ready to serve you.