

FLÖWON
Engineers

ISO 9001-2015 Certified

FLOW ON ENGINEERS

PRODUCT CATALOGUE

LINED VALVES

INTRODUCTION

Founded in 2009, “**FLOW-ON**” is one of the most Trusted and Emerging Manufacturer, Supplier and Exporter of the Indian valve industry. As we are having rich industrial experience, we provide high quality and highly reliable product range of valves. With the inimitable blend of experience and expertise we provide robust solutions which are flexible, highly efficient and cost effective and meet all the industrial requirements. With the mission to satisfactorily accommodate various Industry valve requirements we provide our valves with special features such as easy maintenance, Easy installation and negligible wear and tear.

We believe that “**Quality is our responsibility.**” With our rich industry experience we provide finest and best quality products in the valve industry. Whenever we talk about quality customers see quality of the final product. However our quality management system monitors every process steps and then has its quality test. As we are **ISO 9001:2015** certified so you can rely upon our products that they are inherently safe and reliable. We have created a cultural practice of quality that every employee makes it a habit to deliver best quality product.

Now “**FLOW-ON**” has become a synonym for high quality Valves which are available in both high/low pressures and work in both high/low temperatures and also suitable for highly corrosive fluids. We are Exporter & Supplier of **Gate Valves, Globe Valves, Non-Return Valves, Ball Valves, Butterfly Valves, Strainers, Forged Steel Gate- Globe- Ball- Check Valves, Pneumatic Actuated Ball Valves- Butterfly valves, Pneumatic Actuated Solenoid Valves, Electronic Motorized Control Valves, Flanges , Pipe Fittings Etc.**

Our Prominent clients

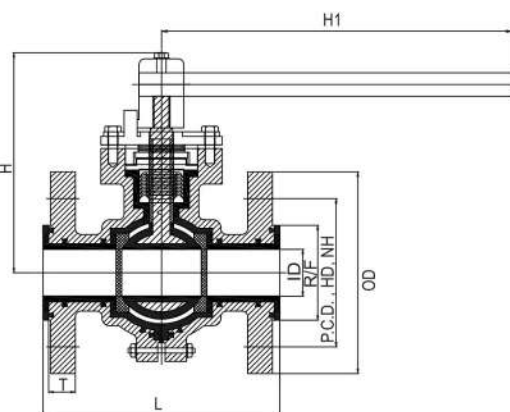


Design Feature:-

- Ø Interior valve bodies as well as the stem and ball are individually lined with PFA or PVDF/FEP
- Ø Ball is fully encapsulated in PFA/FEP. Ceramic Balls are also available which are interchangeable
- Ø Anti-blow out stem assembly for preventing stem blow out even when top gear is disassembled
- Ø Short pattern face to face dimension in accordance with ANSI B16.10 and ANSI B 16.5, 150 lbs.(flange dimension) - facilitating replacement of fully lined or sleeved plug valves with Horizon lined ball valves without altering existing pipework
- Ø Valves supplied with anti-static devices for protection against potentially dangerous electrostatic discharge
- Ø Free floating Ball Valve Principle ensures the ball seals against the downstream seat ring giving a positive sealing force even when line pressure is low
- Ø All inherent design features of a conventional ball valve such as low torque, quarter-turn operation, bubble tight shut off and a minimum pressure drop



Technical Specifications	
Sizes	DN 15 to DN 350 (NPS ½" to NPS 12")
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	BS EN 17292
Face to Face Std	ASME B16.10
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	API 598 / BS EN 12266-1
Type of Bore	Standard (Full Bore) Reduced Bore
End Connection Type	Flanged Ends, RF
Operated Type	Hand Wheel, Gear Box, Electric Actuator, Bare Shaft, etc.
Spark test	15 kv DC



TESTING STANDARDS		
Test Performed	API 598	API 598
SIZES	½" to 4"	6" to 12"
HYDRO-SHELL TEST	420 PSI	225 PSI
HYDRO- SEAT TEST	270 PSI	165 PSI
PNEUMATIC SEAT TEST	105 PSI	75 PSI

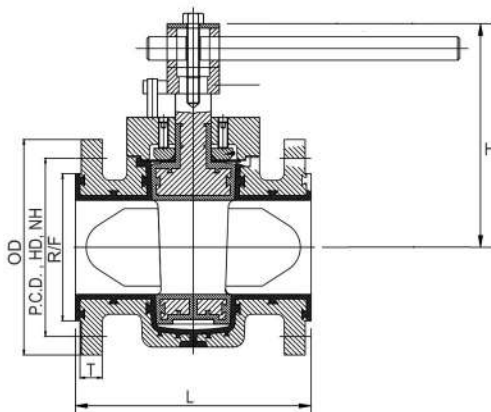
Design Feature:-

The 061 is a PFA lined, Ductile Iron, ANSI Class 150 flanged Plug Valve. It can be equipped with a manual handle or with pneumatic or electric actuators. A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

- Ø Cavity Less High Performance Design
- Ø Zero Leakage (Class VI Leakage Rate) due to large sealing area
- Ø Unique Lining makes it Fully Locked from Top, Bottom & Port.
- Ø Totally Maintenance Free Design.
- Ø "Locked-in" PFA liner
- Ø Rugged construction
- Ø Quick quarter-turn rotation
- Ø Ideal for corrosives
- Ø Easy turning without lubrication
- Ø Superior long-lasting shut-off.



Technical Specifications	
Sizes	DN 15 to DN 350 (NPS ½" to NPS 12")
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	API 599
Face to Face Std	ASME B16.10
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	BS EN 12266-1
Type of Bore	Standard (Full Bore) Reduced Bore
End Connection Type	Flanged Ends, RF
Operated Type	Hand Wheel, Gear Box, Electric Actuator, Bare Shaft, etc.
Spark test	15 kv DC



TESTING STANDARDS		
Test Performed	API 598	API 598
SIZES	½" to 4"	6" to 12"
HYDRO-SHELL TEST	225 PSI	225 PSI
HYDRO- SEAT TEST	165 PSI	165 PSI
PNEUMATIC SEAT TEST	85 PSI	85 PSI

LINED BUTTERFLY VALVE

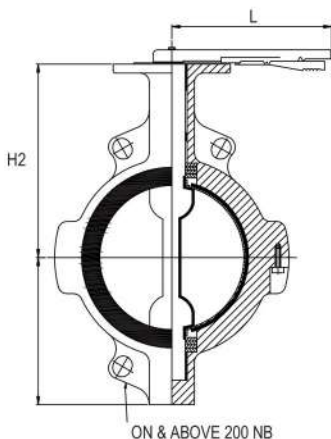
Design Feature:-

- Ø Areas where highly corrosive materials are used in the chemical process and plants.
- Ø Industries where the critical application like food, pharma and fine chemicals.
- Ø To control environment pollution.
- Ø Best quality in class with excellent performance.
- Ø Excellent corrosion resistance to the chemicals.
- Ø Maintenance Free / Long Services life cycle / Easy Installable, ensuring cost reduction in production and maintenance.
- Ø High Voltage electric spark test – all lined components.
- Ø Standard Hydraulic Test(15 kg/cm²) of body and seat(10 kg/cm²)
- Ø Virgin lining materials used – FEP/PFA.
- Ø Size : 50 NB to 500 NB
- Ø Thickness : 3.0 to 3.5 mm Mini. Over all wetted parts.
- Ø Spark Test : 15k.v.D.C
- Ø Type : FEP/PFA
- Ø Services : (FEP) Max – 160°C



Technical Specifications

Sizes	DN 15 to DN 350 (NPS ½" to NPS 12")
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	BS EN 17292
Face to Face Std	ASME B16.10
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	API 598 / BS EN 12266-1
Type of Bore	Standard (Full Bore)
End Connection Type	Wafer Ends, RF
Operated Type	Hand Wheel, Gear Box, Electric Actuator, Bare Shaft, etc.
Spark test	15 kv DC



ON & ABOVE 200 NB

TESTING STANDARDS

Test Performed	API 598	API 598
SIZES	½" to 4"	6" to 12"
HYDRO-SHELL TEST	420 PSI	225 PSI
HYDRO- SEAT TEST	270 PSI	165 PSI
PNEUMATIC SEAT TEST	105 PSI	75 PSI

The PFA lined Ball Check Valve are developed for use in extremely corrosive applications, full port design can be installed either vertically and dependent upon application horizontally as well.

Lining material such as PFA and conductive PFA have exceptional corrosion resistance.

The VCF valves are available for the connection with DIN EN 1092-1 or ANSI B16.5 flanges from DN 15-½” to DN 200-8”.

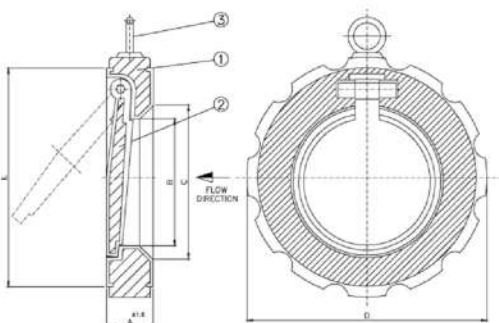
A **swing check valve** is a butterfly-style check valve in which the disc, the movable part to block the flow, swings on a hinge or grunion, either onto the seat to block reverse flow or off the seat to allow forward flow. The seat opening cross-section may be perpendicular to the center line between the two ports or at an angle.

Although **swing check valves** can come in various sizes, large check valves are often swing check valves.

Swing check valve shut off depends on gravity and reverse flow. The pivot point of the **swing check valve** is outside the edge of the disc and, the greater the head, the greater the possibility that the fluid will flow back through the valve before the disc can shut off. To affect complete shut off, the disc of a swing check valve must travel through a 90 angle arc to the swing check valve seat



Technical Specifications	
Sizes	DN 25 to DN 200 (1" to 8")
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	BS 5351
Face to Face Std	Manufacturer standard
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	API 598
Seat Leakage	Zero Leakage , Tight Shutoff
End Connection Type	Flanged Ends, RF
Seat	FEP / PFA / PTFE / PPH / PVDF
Spark test	15 kv DC



TESTING STANDARDS		
Test Performed	API 598	API 598
SIZES	½" to 4"	5" to 8"
HYDRO-SHELL TEST	270 PSI	270 PSI
HYDRO- SEAT TEST	195 PSI	195 PSI
PNEUMATIC SEAT TEST	45 PSI	45 PSI

LINED DIAPHRAGM VALVE

“FLOWON” Diaphragm valves are suitable for handling sticky and viscous fluids, slurries and highly corrosive and hazardous substances. It is needless to say that they could be used for handling air, water and normal liquid/gas flow as well. It is the most ideal valve to handle fluids that require high purity and should remain free from contamination.

Straight type diaphragm valves as opposed to weir-type diaphragm valves have specific advantages in certain media applications.

Straight Type Diaphragm Valve

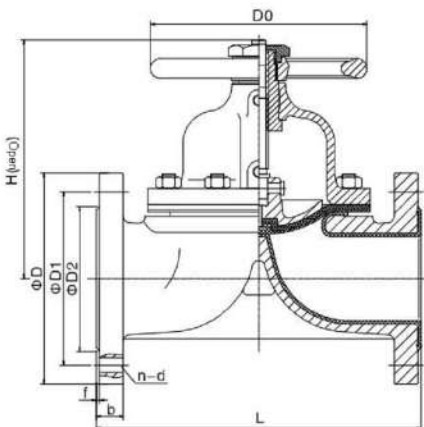
Full bore diaphragm valves are primarily used in the fields of water and waste water treatment, mining, the mineral, paper and cellulose processing industry, the chemical industry or at power stations and steelworks. Their virtually full bore gives them an advantage over other conventional shut-off valves, particularly when working with viscous liquids such as slurry and liquids with a high solid or fibre content. A metal valve body with hard rubber lining can be used when processing abrasive media such as surface water with sand content or milk of lime for water treatment. The entire medium wetted part is therefore protected by the lining, which prevents micro-pitting (hydroabrasion).

Weir Type Diaphragm Valve

Weir-type diaphragm valves are used far more frequently as shut-off valves than full bore diaphragm valves. Indeed, they can be used in around 90% of all industrial applications. Depending on the application in question, valves with purely metal bodies made of cast iron or stainless steel sometimes do not offer the necessary protection. The advantages of this process, coupled with our many years of expertise, produce high quality, precisely definable geometric features, a consistent wall thickness, as well as a high degree of process system safety and reproducibility of the linings. Other high quality materials such as PP (polypropylene) and hard rubber are also incorporated in the metal bodies using the same process. Some typical applications are sulphuric acid, chlorine and caustic soda.



Technical Specifications	
Sizes	DN 15 to DN 350 mm (NPS ½” to NPS 14”)
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	BS 5156
Face to Face Std	ASME B16.10
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	BS 6755
Body Lining	Neoprene / Natural Rubber / Ebonite / Butyl / Glass / FEP / PFA / EPDM / Food Grade etc.
Diaphragm	Neoprene / Hypalon / Butyl / EPDM / Nitrile / BUNA-N / Food Grade with PTFE pad
End Connection Type	Flanged Ends, RF
Operated Type	Hand Wheel, Gear Box, Electric Actuator, Bare Shaft, etc.
Spark test	15 kv DC



Lining Hardness
From Size 15 mm to 65 mm, Lining Thickness:- 3 mm
From Size 80 mm to 100 mm, Lining Thickness:- 3.5 mm
From Size 125 mm to 150 mm, Lining Thickness:- 4 mm
From Size 200 mm to 350 mm, Lining Thickness:- 5 mm

LINED “Y” STRAINER

PTFE Y-Strainers are a lower cost and more flexible solution when the higher capacity of a basket strainer is not needed. Installation can be vertical or horizontal and, like our basket strainers, they are designed for years of trouble-free operation in the harshest environments. PVDF units are available in pipe sizes up to 4”, PTFE units up to 3”. In addition to the standard flanged, NPT, Tri-Clamp and metric for both PTFE and PVDF units or, IPS socket- or butt-weld connections for PVDF units only, we can provide virtually any connection (True-Union, etc.) on special order.



Technical Specifications	
Sizes	DN 25 to DN 200 (NPS 1” to NPS 8”)
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	Manufacturers Standard
Face to Face Std	ASME B16.10
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	API 598 / BS EN 12266-1
Strainer mesh	Mesh 20 micron, 40 micron
End Connection Type	Flanged Ends, RF
Operated Type	Self Operated
Spark test	15 kv DC

LINED BASKET STRAINER

PTFE and PVDF Basket Strainers allows you to maximize up-time by stretching the time between clean-outs. Our elegantly simple design and robust construction ensure years of trouble-free service. The slant-head PTFE cartridge minimizes head-loss. And, the easily removable cartridge can be serviced in a matter of minutes. Both PTFE and PVDF units are available in pipe sizes up to 3”. Standard connections in PTFE include NPT, Tri-Clamp and Flanged. PVDF units are also available with socket- or butt-weld connections in both metric and IPS sizes. Other connections such as True-Union are available.



Technical Specifications	
Sizes	DN 25 to DN 200 (NPS 1” to NPS 8”)
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	Manufacturers Standard
Face to Face Std	ASME B16.10
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	API 598 / BS EN 12266-1
Strainer mesh	Mesh 20 micron, 40 micron
End Connection Type	Flanged Ends, RF
Operated Type	Self Operated
Spark test	15 kv DC

LINED SIGHT FLOW INDICATOR

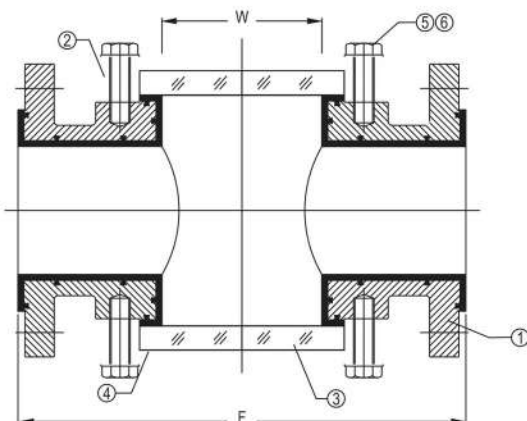
We have wide range in ptf lined sight flow indicator. We are manufacturing best quality products as per domestic and international standards. We have our own manufacturing unit and have well experience & expertise team.

Minimum liner face (R/F) thickness should be 80% of liner thickness. ptf lined sight flow indicator are supplied with one end loose flange and other end fix flange.

- Ø Cavity Less High Performance Design
- Ø Zero Leakage (Class VI Leakage Rate) due to large sealing area
- Ø Unique Lining makes it Fully Locked from Top, Bottom & Port.
- Ø Totally Maintenance Free Design.
- Ø "Locked-in" PFA liner
- Ø Rugged construction
- Ø Quick quarter-turn rotation
- Ø Ideal for corrosives
- Ø Superior long-lasting shut-off.



Technical Specifications	
Sizes	DN 25 to DN 200 (NPS 1" to NPS 8")
Material of Construction	Ductile Cast Iron A-395, Astm A 216 Gr. WCB, CF8, CF8M etc
Design & Manufacturing Standard	Manufacturers Standard
Face to Face Std	Manufacturers Standard
Shell Design	ANSI B 16.34
Flange Connection rating	ASME B16.5, 150# / DIN PN-10 / JIS
Testing Standard	BS EN 12266-1
Glass	Borosilicate
End Connection Type	Flanged Ends, RF
Lining material	FEP / PFA / PTFE / PPH / ETFE
Spark test	15 kv DC



TESTING STANDARDS		
Test Performed	API 598	API 598
SIZES	1" to 3"	4" to 8"
HYDRO-SHELL TEST	150 PSI	75 PSI

FLÖWON

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