

**BRAND INDIA ENGINEERING
E-CATALOGUE**

Date: 18-01-2025

ADVANCE VALVES GLOBAL LLP

**PLOT NO 142 A & B, NOIDA
SPECIAL ECONOMIC ZONE,
PHASE II NOIDA.
GAUTAM-BUDH-NAGAR
PIN - 201305**

**ROHIT MODWEL
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Advance Valves commenced manufacturing Industrial Valves over 25 years ago, in 1986. The Company was promoted and is presently led by Mr. Uma Shanker. Since then Advance Valves has established its position among the top 5 quality manufacturers internationally in its product range. Advance Valves is today considered a pioneer in technology for its Dual Plate Check & Balancing Valves, and even for its Butterfly Valves, especially in the domestic market. Advance Valves has been regularly supplying its products to the Oil and Gas, Refineries and Petrochemical, Power, Water, Fertiliser, Steel, and HVAC sectors. Today, Advance Valves interacts with all the major clients and EPC's both in the domestic markets as well as globally. Advance Valves specializes in the manufacture of Dual Plate Check Valves (as per API 594/API 6D), High Performance Metal Seated and Soft Seated Butterfly Valves (as per API 609) in metallurgies suitable for all petrochemical, sour services, seawater services, power & chemical, mining, power and oxygen sectors, amongst other applications. These include offerings in Aluminum Bronze, Duplex S.S, Titanium, Hastelloy, Alloy 20, Inco Alloy amongst other super alloys. Our Balancing Valves are considered to be a de-facto standard in the Indian HVAC sector.

[Products Description](#)



BRAND INDIA ENGINEERING E-CATALOGUE

DUAL PLATE CHECK VALVE

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Technical Details

The salient features include:- 1. Sizes from 2" to 80" diameter. 2. ANSI Class 125 to ANSI Class 2500. 3. API 6A valves ranging from API 5000 to API 10000. 4. Suitable for -196° C (Cryogenic) to 900° C (Fire Safe applications). 5. Soft and Metal Seated. 7. Fugitive Emission Free Retainerless Design. 8. Models: Wafer, Double & Mono Flanged, Lugged & Sold Lugged, Butt Welded & Hub Ended, Extended Flanged Body, Jacketed Bodies, Ring Type Joints (RTJs) 9. Full Cladding. 10. Zero Velocity Non Slamming Characteristics. 12. No Valve - Induced Water Hammer Effect.

Design Features The Dual Plate Check Valve is an all purpose non return valve that is much stronger, lighter in weight and smaller in size compared to a conventional swing check valve or lift check valve. The Dual Plate Check Valve design is the outcome of attempts to solve the problems associated with conventional swing check valve and lift check valve. The Dual Plate Check Valve employs two-spring-loaded plates hinged on a central hinge pin. When the flow decreases, the plates close by the action of torsion spring before flow reversal takes place. This design offers the twin advantages of No Water Hammer and Non Slam simultaneously. All features put together make the Dual Plate Check Valve as the most efficient & versatile design. It is also referred to as SILENT CHECK VALVE Dual Plate Check Valve can be classified as Zero Velocity Valve. The design has everything which the other conventional valves miss. It is a valve most efficient in operation irrespective of fluid and service conditions and the easiest to handle and install in any piping system with no constraints. NO WATER HAMMER To eliminate water hammer, a Check Valve should close before the onset of reverse flow. Water hammer is almost non existent in dual plate check valves since closing of the valve does not depend on back pressure and back flow. Each plate being half the size of a swing check disc provides a straight flow path, offering least resistance. Due to spring assisted closing, valve closure starts as soon as flow velocity reduces below the designed minimum velocity and thereafter the closing rate flows the flow velocity reduction pattern. The valve closes as the flow velocity approaches zero and well before the flow reverses. This eliminates water hammer. In the figure the Heavy Disc in Swing Check Valves develops heavy momentum as it swings to the closed position. NO SLAMMING The Dual Plate Check Valve design is classified as "Non-Slam Design". The disc in a swing check valve is hinged at the top. As the flow reduces, the closure of disc is influenced by force of gravity and high inertia of the heavy disc. This momentum can cause severe damage when the disc slams on to the valve seat. To reduce this, one has to go for a balancing weight/dash pot arrangement etc. This makes the valve more expensive and bulky. Furthermore, any counter weight/dash pot arrangement is counterproductive as far as prevention of water hammer is concerned. The two plates in Dual Plate Check Valve are hinged in the center vertically for horizontal installations, altogether eliminating the effect of the gravity. Also the momentum developed as they move to the closed position is only a fraction of what is developed in a swing check valve as the weight of each plate is 1/4th the weight of swing disc and the tip velocity is less than half. Further due to spring assisted closing, the valve closes as the flow velocity approaches zero and before the flow reversal. As it starts closing, the flow as such cushions the plates and seat, hence minimizing slamming.

INDEPENDENT PLATE SUSPENSION For valve sizes 450mm (18") NB and above, each plate is supported independent of each other. In any position (Horizontal or Vertical) each plate's weight is directly transferred to the body.

LOWER PRESSURE DROP The design of the Dual Plate Check Valve divides the total force in half, since each plate covers only one half the area of a swing check disc. One half the forces on each plate require one-half thickness, hence one-fourth the mass of a swing check disc. F_f (hinge friction) plus F_s (spring force) times 0.75B (force point) minus F (force) times B (width) equals zero for equilibrium. F_f (Friction of Hinge) + F_s (0.75B) - FB = 0 Therefore, $F = 0.75 F_s + F_f$ (Friction of Hinge) B The weight of the plates does not increase the force required to move the plates. Dual Plate Check Valve has much lower pressure drop due to lower force. The best analogy between a swing check valve and Dual plate Check Valve would be a door hinged from the top and a door hinged on its side with an appropriate door closure. The force required for operating the two doors can be just visualized and compared. LOWER WEAR & TEAR OF SEAT FACES The plates are smaller in area and lighter in weight being two in number compared to

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ITC HS Code 848130
 Certification Category System Standard
 Certification/ Standard ISO
 Issuing Agency BUREAU VERITAS
 Date of Issue
 Date of Expiry
 Certificate Image



End Use Sectors

Oil & Gas, Power, Steel & Mining, LNG & Cryogenic, Marine & Water, Chemical &

Product Images



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BUTTERFLY TRIPLE OFFSET VALVE

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Technical Details

The salient features include :-

- 3" to 120"
- High pressure range of ANSI # 300, # 600 & #900
- Suitable for -196° C (Cryogenic) to 900° C (Fire Safe applications)
- Bi-directional performance
- End connections to suit, including Wafer, Lugged, Flanged, Butt Weld, Special design include Jacketed, Zero leakage & bi directional
- Metal to Metal seated, thus intrinsically fire safe
- Standard compliance with API 609, 598, 607, BS 6364 amongst others

1. Design Features 2. Construction Features 3. Installation Dimensions Design Features Advance Valves metal seating high pressure butterfly valves provides a bi-directional bubble tight shut off. This is achieved by introducing state-of-the-art triple eccentric disc geometry. The valve shaft is off-set against the seal, (1st off-set), and against center line of the valve (2nd off-set). The seating edges are machined with a continuously changing slope from an angle alpha on top of the oval seat ring to an angle beta at the opposite side (3rd off-set angular). This geometry ensures that the seat ring stays clear of the seat except at the final shut-off position, resulting in long seat life and operating cycles in excess of 500 000. Construction Features The valve seal, is manufactured from laminated stainless steel with PTFE or grap oil laminate depending on the applications. The seal is held in position by a bolt-on retaining ring and, together with the stainless seat ring, is easily replaceable. A gasket prevents leakage around the seal ring. The metal seating valve can operate within a temperature of -249° C to +600° C. Valve designs for cryogenic applications are available on request. For low temperature applications, the metal seat can be substituted by a PTFE seat. Advance High Pressure Butterfly Valves are manufactured in a wide range of materials to suit most applications. For low temperature applications, the metal seat can be substituted by a PTFE seat. Advance High Pressure Butterfly Valves are manufactured in a wide range of materials to suit most applications. Installation Dimensions DIMENSION TABLE UNDER UPDATION TO COVER THE COMPLETE RANGE COVERING UPTO 2200 MM AND PRESSURE Class ANSI #900.

ITC HS Code	848180
Certification Category	Product Standard
Certification/ Standard	API
Issuing Agency	API
Date of Issue	14-12-2015
Date of Expiry	14-09-2017

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energy API E-CATALOGUE

Certificate Image

May 16, 2017 Facility ID #: 609-0072
142 A & B, Noida Special Economic Zone
Phase II, Noida
Gautam Buddha Nagar, Uttar Pradesh 201305
India

Autonomous Notification - Extension Letter

RE: Certifications 609-0072

API has extended the expiration dates of your certification(s) to September 14, 2017. You can verify the status of your API certification(s) on the API Composite List by using the following URL: <http://www.compositelist.api.org/CompositeList.aspx?CertificateID=6090072>


If you have an API 609-0072 or ISO 9001 Certificate of Registration, this extension does not include those certificates since API's accreditation requirements do not allow the extension of registrations beyond their expiration date.

If you have not yet submitted your renewal documentation, please do so as soon as possible. If you have submitted renewal documentation and your audit has not been scheduled and/or performed, an API auditor will contact you shortly.

If your audit has already been performed, this letter does not extend or otherwise change your due date for submitting corrective actions to any nonconformities. Furthermore, any decision on certification resulting from a review of your audit invalidates this extension, unless otherwise specified.

The extension of your certificates is contingent upon the payment of any outstanding balances. API may withdraw this extension at its discretion for any audit, overdue balances. Any outstanding balances must be paid in order to avoid suspension or cancellation of your certifications. API will not review the audit or responses of facilities with outstanding balances.

API values to complete renewal recertification prior to a certificate's expiration. However, just as the demand for oil and natural gas has increased over the last several years, so has the demand for more advanced equipment and API certifications. While this demand has increased API's processing times, API is continuously working to improve these processing times in the future.

Sincerely,

Lisa Sallee
Vice President, API Global Industry Services



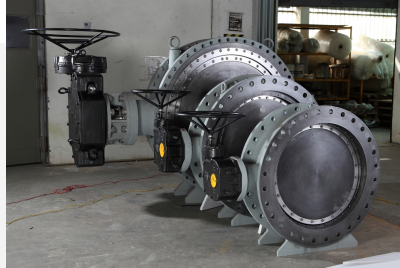
End Use Sectors

Oil & Gas, Power, Steel & Mining, LNG & Cryogenic, Marine & Water, Chemical &

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BUTTERFLY DOUBLE OFFSET VALVE

Technical Details

Advance Butterfly Valve has, over a period of years, established a reputation for manufacturing high technology valves. Our range of double offset butterfly valves are manufactured in sizes from 80mm to 3000mm and pressure from 10 Bar (class 125) to 20 Bar (class 150). The valves are available in wafer, lugged and double flanged configurations. A wide variety of drilling can be accommodated to meet most European, American and Asian specifications. Our design procedure include finite element stress analysis to ensure material suitability and strength The salient features include:-

- 3" to 120"
- Upto ANSI # 150
- From – 50° to 205° C
- End connections to suit, including Wafer, Lugged, Flanged, Zero leakage & bi directional
- EPDM, Buna N, Viton sealing
- Standard compliance with 609 & 598 among others

Construction Features Advance Valves is the leader in manufacturing of high performance valves, offering a comprehensive range of elastomers, PTFE and metal seating valves. Double Eccentric - Butterfly valves are manufactured in sizes from 3" to 120". It is available in wafer, lug-type and fully flanged configurations. Flange drilling can accommodate BS 4504, DIN 2631/2/3/4 as well as ANSI B 16, 5, API 605 and AWWA C207. Elastomer-seal valves operate on the double off-set principle and are pressure rated up to 25 Bar.

ITC HS Code	848180
Certification Category	Product Standard
Certification/ Standard	POD FROM BHEL, INDIA
Issuing Agency	BHEL
Date of Issue	22-07-2006
Date of Expiry	01-06-2017

BRAND INDIA ENGINEERING

Corporate Quality Surveillance System

CORPORATE QUALITY INSPECTION REPORT

The release of this CQ-IR does not release the Supplier of responsibility under the terms and conditions of the contract. This CQ-IR is released without prejudice to the purchaser's right under the terms and conditions of the contract. This document is not an authorization for release.

Supplier Ref No.: 05-18-02-020

Supplier: **ADVANCE VALVES PVT. LTD.** CQ-Center: * CQ-04841

Purchasing Unit / Agency: * RPL, NEW DELHI PO STATUS: OPEN

BHEL PO No.: * PWF/PE/MB/BLR-P-314/05 BHEL PO date: * 18/07/2006

BHEL LDC No.: * PWF/PE/MB/BLR-P-314/05 BHEL LDC date: 13/07/2006

Project Name: BALLYARY APC Package: BUTTERFLY VALVES

Inspection start date: 10/07/2006 Name: *Fayem* Inspection End Date: 18/07/2006

Call No: 7 Call-Status: CLOSED

PO Item / Component No	Description	Docx	Quantity	Quantity	Remarks
2	BUTTER FLY VALVE WITH 8 INCH CENTRIC DOUBLE FLANGED 150MM HD 150MM DN UNPAINTED	8888 NO.	22	22	1 22 A 22 SL NO. 02.100276

Units Recd OMS Sample Appd Disa Com. Code Accept

PERFORMANCE TEST OF 6 INCH VALVE SELECTED ON RANDOM BASIS FOR CHECK OF MIN 10000 CYCLES OPERATION WAS SUCCESSFULLY CONDUCTED W.E.F 10/07/06 TO 18/07/06. SEAT TEST CHECKED AFTER COMPLETION OF PERFORMANCE TEST. VISUAL TEST STRIP TEST WERE ALSO CONDUCTED AND FOUND ACCEPTABLE. TEST RESULTS ON BHEL ALL OFFERED VALVES ARE ACCEPTED AGAINST CALL. NO. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22. ALL OFFERED VALVES ARE ACCEPTED AGAINST CALL. PERFORMANCE TEST CERTIFICATE.

Name: *Sank* ADVANCE VALVES PVT. LTD. *Sank*

Inspector / Consultant: *Sank* Supplier: *ADVANCE VALVES PVT. LTD.* Sub-Supplier:

Signature: *Sank* Date: 18/07/2006 Location: *ADVANCE VALVES PVT. LTD.*

http://10.12.5.25/Cqisip/Transactions/trans_cqi_1a.jpg 22-Jul-06

ADVANCE VALVES PVT. LTD.
A-26, SECTOR - 54, NOIDA - 201 301 (INDIA)
Phone: +91 120 50994 30000 Fax: +91 120 50994 30001
e-mail: communicators@advancevalves.com Website: www.advancevalves.com

PROOF OF DESIGN REPORT

DT: 19/07/2006

TC No: BD/BHEL/001/06

CLIENT: BHEL

TESTING STANDARD: AWWA C504

DATE OF INSPECTION: 10/07/06 TO 18/07/06

P.O No: PWF/PE/MB/BLR-P-314/05 DT.18.10.05

W.O No: 05-H-BD-E-020.

ITEM: DOUBLE ECCENTRIC BUTTERFLY VALVE

TESTING CYCLE: 10,000 No.

TEST PRESSURE: 10.5 Kg/cm²

PRESSURE HOLDING TIME: 10 SEC

TAG NO. OF TESTED VALVE: G1100276

SIZE: 150 MM. RATING: #150

VALVE CONDITION AFTER CYCLE TESTING:

- SEAT TEST AT 10.5 Kg/cm² OK
- STRIP TEST OK
- O-RING CONDITION OK
- Visual inspection for surface defects, physical damage OK

FOR ADVANCE VALVES PVT. LTD. *Sank*

QUALITY ASSURANCE DEPARTMENT

Certificate Image

End Use Sectors

Product Images



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BUTTERFLY CONCENTRIC VALVE

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Technical Details

Advance Butterfly Valve are designed & manufactured to have optimum mix of structural stability, flow efficiency & effective seating coupled with advantage of light weight, compact design and ease of operation. Only a quarter turn is needed to fully open or close the valves. The salient features include:-

- Fit n Forget' Butterfly Valve – internally molded liner • 2" to 24" • Upto ANSI # 150 • From – 50° to 205° C • End connection in Wafer, Lugged & Flanged Models • Lining and metallurgy to suit a wide variety of applications, including sea water & water desalination plants • Seal type (EPDM, Buna N, Viton) • Standard compliance with API 609 & 598 Design Features

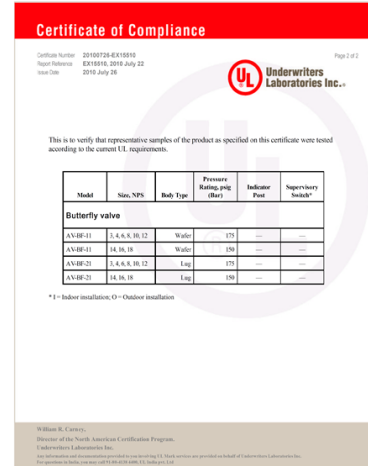
The valves are designed and manufactured to have optimal mix of structural stability, flow efficiency and effective seating coupled with advantage of light weight, compact design and ease of operation. The valves are provided with integrally moulded elastomer body liner for perfect seating and complete isolation of body material from fluid media. No gaskets are required as the body liner effects a perfect seal between the valve body and the mating pipe flanges. The valves are designed using Finite Element Methods. Advance Butterfly Valves conform to BS: 5155, IS: 13095 and also API 609. It also generally complies with AWWA C-504, International standard ISO 10631 and draft European standard pr EN 593. Construction Features Body is one piece design. Top Flange is designed to mount required Valve Operator. Body Liner is integrally moulded and bonded to the body. It provides the seating to valve disc, primary seal to the stem and 'gasket' joint with mating pipe flanges. Integrally moulded liner resists any stretching or distortion of the liner which is a common problem of loosely fitted liner leading to frequent replacements. Valve Disc material covers wide range of applications. It is optimally designed to have an ideal combination of strength and flow efficiency. Stem For optimal combination of flow efficiency and structural stability, Valves upto 200mm (8") have two piece stem. For sizes 250mm (10") to 600mm (24") N.B. stem is in single piece construction which ensures better distribution of weight of the disc. The stem drives the disc through taper pin(s) to eliminate any backlash between Stem & Disc. The material of construction for stem has been standardised as High Tensile Stainless steel (AISI 410). Stem Seal Arrangement Primary Sealing is provided by preloaded contact between flat seat surface and rounded polished disc hub area. Secondary Sealing is provided by the interference fit between stem and stem hole in seat at all positions. Even a tertiary sealing has been provided by fitting moulded O-ring between stem and bush supported by atmospheric sealing with O-rings. Thus Advance Butterfly Valves provide perfect sealing needing no other gland packing End Connections Wafer type flanges are as per BS 4504 PN 10 & 16, BS 1560 classes 125 & 150, ANSI B 16.5 Class 150, ANSI B 16.1 Class 125, BS 10 Table D, E & F and Indian Standard IS 6392 Table 10 to 20. Lug type valves are supplied to suit customer's specifications. Facilities Technology Advantages Rubber technology is fully developed in-house with facilities to mould, process all elastomers including mixing, vulcanizing and metal to elastomers bonding. The integral liner concept is a fail-safe design. Tests Offered Extensive in-house testing facilities are available to fully ensure quality at all stages. These include:

- Elastomer Test for Tension, Compression set, Hardness, Specific Gravity, Adhesion & Abrasion Resistance.
- Dye Penetrant Test
- Tests of Actuators (both electric & pneumatic type)
- Hydrostatic Pressure Testing for shell & seat
- Pneumatic Testing for seat
- Valve operating torque test.

Facilities for Pressure Drop test and Life cycle test exist for valid for upto 500 mm (20") NB. Apart from above, other NDT processes including MPI & Ultrasonic Test and tests for chemical & physical properties including special tests e.g. low temperature impact Test, Inter-granular Corrosion Test etc. are also offered to meet customer's requirement through independent Approved Inspection and Test Laboratories. Valve Testing: (Hydrostatic) Each valve is hydrostatically tested for seat & shell tests as per applicable standards. Additional tests as required can be carried out as per customer's specification and requirement.

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ITC HS Code 848180
 Certification Category Product Standard
 Certification/ Standard UL
 Issuing Agency UL
 Date of Issue
 Date of Expiry
 Certificate Image



Certification Category System Standard
 Certification/ Standard CE
 Issuing Agency BUREAU VERITAS
 Date of Issue 17-08-2016
 Date of Expiry 01-04-2019

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Certificate Image

ATTESTATION D'APPROBATION DE SYSTEME DE QUALITE
CERTIFICATE OF QUALITY SYSTEM APPROVAL
N° CE-0062-PED-H-AVG 001-16-ND-rev-A

Bureau Valves SA, agissant dans le cadre de sa notification (numéro d'organisme notifié 0002), atteste que le système de qualité appliqué par le fabricant pour la conception, la fabrication, l'inspection des produits finis et les essais des équipements sous pression (EQUIPEMENTS) est conforme aux dispositions correspondantes de la directive "Equipements sous pression" N° 2014/68/CE et est conforme aux dispositions correspondantes de la directive "Equipements sous pression" N° 2014/68/CE et est conforme aux dispositions correspondantes de la directive "Equipements sous pression" N° 2014/68/CE.

Bureau Valves SA, acting within the scope of its certification number (number 0002), attests that the quality system applied by the manufacturer for design, manufacture, final product inspection and testing of the pressure equipment classified manufacturer has been examined against the provisions of article 6, article 14, of the Pressure Equipment Directive n° 2014/68/CE and found to satisfy the provisions of the directive which apply to it.

Fabricant (Nom) / Manufacturer (Name): **ADVANCE VALVES GLOBAL LLP**
142MAB, Noida Special Economic Zone Phase - II
Address / Adresse: **201300, Noida, India**

Marque commerciale / Trading Name: **BlueV**

Description des Equipements / Equipment description: **Check Valves & Butterfly Valves**
Identification des équipements concernés (ou liste au verso ou en annexe si elle est volumineuse): **Refer ANNEX**

Existence d'une annexe à l'attestation d'approbation de système qualité / existence of an annex to the certificate: **Refer ANNEX**

Cette attestation est valable jusqu'au (date/années): **01/04/2019**
This certificate will expire on (date/années):

Le maintien de l'approbation est soumis à la réalisation par le Bureau Valves SA, des audits, visites, essais et vérifications selon le contrat signé par le fabricant et le Bureau Valves SA.
The approval is conditional upon the surveillance visits, tests and verifications to be carried out by Bureau Valves SA, as per the provisions stated in the agreement signed with the manufacturer.

Cette attestation est présentée dans le but de faciliter l'accès aux informations de son utilisation, de sa maintenance, de son contrôle et de sa réparation. Elle est destinée à être utilisée en complément de la documentation technique et des documents de référence. Elle ne doit pas être utilisée à des fins de publicité ou de promotion commerciale.
This certificate is presented in order to facilitate access to the information on its use, its maintenance, its control and its repair. It is intended to be used in conjunction with the technical documentation and reference documents. It must not be used for advertising or commercial promotion purposes.

Date de validité initial (ou de renouvellement) (Date/années): **01/04/2019**
Inspector / Surveillé: **RAJESH KULKARNI**

Etat et lieu de l'organisme / Approved and Designated in (Country/Location):	Etat et lieu de l'organisme / Approved and Designated in (Country/Location):	Etat et lieu de l'organisme / Approved and Designated in (Country/Location):	Etat et lieu de l'organisme / Approved and Designated in (Country/Location):
MUMBAI 05110016	France	KADAPPAH	INDIA

Code d'identification / Identification Code: **20160021/CE-0062-PED**

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60111 Boulevard du Chêne, 92200 NEUILLY SUR SEINE Page 1 of 3

ANNEXE à l'attestation d'approbation de système de qualité
ANNEX to the certificate of quality system approval
N° CE-0062-PED-H-AVG 001-16-ND-rev-A

Sl.No.	Nominal Size (in mm.)	Valve Rating	Pressure (Bar)	Category
Butterfly Valves				
1	50mm - 400mm.	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	
2	450mm - 1200mm	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	
3	1200mm-2200mm	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	
Check Valves				
1	50mm - 300mm	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	
2	350mm-600mm	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	
3	650mm-900mm	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	
4	950mm-1600mm	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	
5	1650mm-2000mm	#150	20	I to III
		#300	02	
		#500	102	
		#800	154	
		#1500	206	

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End Use Sectors

Oil & Gas, Power, Steel & Mining, LNG & Cryogenic, Marine & Water, Chemical &

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Sectors of Interest	Oil & Gas, Power, Steel & Mining, LNG & Cryogenic, Marine & Water, Chemical & Fertilizer, HVAC
Is OEM Supplier?	Indigenous
Is After Sales Service Provider?	No
Importance of niche products	DUAL PLATE CHECK VALVE • Metal to metal, Soft seating (resilient seals) & Dual Seating • Fugitive emission free design, • Completely Rubber Lined & Exotic Cladded Valves available; • Cryogenic to Fire Safe Applications; • Independent Plate Suspension; • Wide Selection of Metallurgy. BUTTERFLY TRIPLE OFFSET VALVE • Three offsets give tight sealing in a metal to metal configuration • Fire safe metal to metal seated – API 607 certified • Fugitive Emission free certified as per ISO 15848 from –196 deg C to +450 deg C • Zero Leakage, Low Emission; • One Piece Stem.
Potential market of niche products	Oil & Gas, Power, Steel & Mining, LNG & Cryogenic, Marine & Water, Chemical & Fertilizer, HVAC
Product Supply Record	1. RAPID- MALAYSIA 2. UMM LULU-UAE 3. BAB HABSHAN-UAE 4. BAB COMPRESSION-UAE 5. AGFA-UAE
Patented Technologies	1. Patent of Manual Balancing Valve (Patent Registration No- US 9512925 B2, Dec 6th, 2006)
Awards/Accolades	1. FLUOR APPRECIATION AWARD 2. CERTIFICATE OF EXCELLENCE From IES 3. HVAC & R EXCELLENCE AWARD From Bry-Ali. 4. Udyog Ratna Award 5. IFSY AWARD 6. VENTCONF AWARD 7. API MEET APPRECIATION AWARD 8. APPRECIATION AWARD FROM SKEC 9. RACON APPRECIATION AWARD 10. We do have so many Approvals from different End Users all over the globe.