# SPLIT BUTTERFLY VALVE

## WHY SPLIT VALVE TECHNOLOGY???

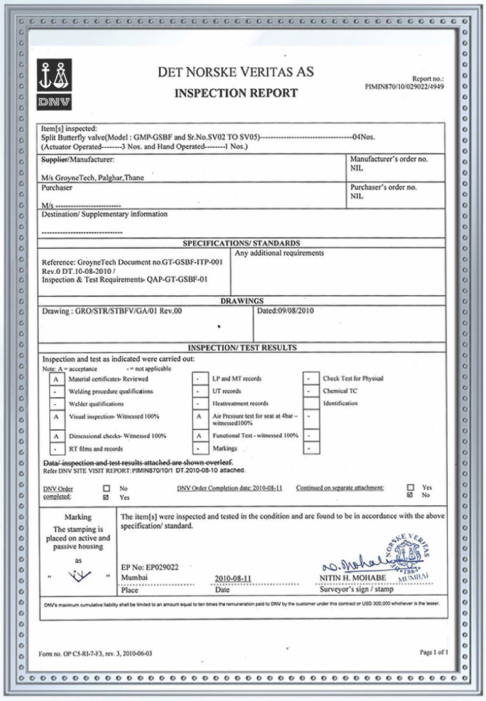
**Due to increase potency of drug development in recent years, has resulted in the need of striking change in design of facility & process, by using compact containment technology to ensure high containment level (OEL) & to achieve protection over contamination bet between "PRODUCTS, OPERATOR & ENVIRONMENT".**

**GroyneTech introduces "Split Butterßly Valve" Technology for transfer of drugs from one process to other maintaining the containment level.**

**GroyneTech valve designed to achieve containment level of 1 – 10 microgram/m³ (** Depends on frequency of operation & density of product with handling of valve)**


## TYPICAL APPLICATION:

**IBC CHARGING**
**VESSEL CHARGING**
**REACTOR CHARGING**
**GLOVE BOX CHARGING**
**BAG TRANSFER**
**CAINSTER CHARGING**
**CLOSE LOOP MATERIAL TRANSFER SYSTEM**



DET NORSKE VERITAS AS
INSPECTION REPORT

Report no.: PIMIN870/10/029022/4949

Item[s] inspected:
Split Butterfly valve(Model : GMP-GSBF and Sr.No.SV02 TO SV05)----------04Nos.
(Actuator Operated--------3 Nos. and Hand Operated--------1 Nos.)

Supplier/Manufacturer: M/s GroyneTech, Palghar,Thane
Manufacturer's order no. NIL
Purchaser
Purchaser's order no. NIL
M/s ----------
Destination/ Supplementary information
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SPECIFICATIONS/ STANDARDS
Reference: GroyneTech Document no.GT-GSBF-ITP-001 Rev.0 DT.10-08-2010 / Inspection & Test Requirements- QAP-GT-GSBF-01
Any additional requirements

DRAWINGS
Drawing : GRO/STR/STBFV/GA/01 Rev.00
Dated:09/08/2010

INSPECTION/ TEST RESULTS
Inspection and test as indicated were carried out.
Note: A = acceptance - = not applicable

| | | | | | |
|---|---|---|---|---|---|
| A | Material certificates- Reviewed | - | LP and MT records | - | Check Test for Physical |
| - | Welding procedure qualifications | - | UT records | - | Chemical TC |
| - | Welder qualifications | - | Heattreatment records | - | Identification |
| A | Visual inspection- Witnessed 100% | A | Air Pressure test for seat at 4bar – witnessed100% | - | |
| A | Dimensional checks- Witnessed 100% | A | Functional Test - witnessed 100% | - | |
| - | RT films and records | - | Markings | - | |

Data/ inspection and test results attached are shown overleaf.
Refer DNV SITE VISIT REPORT: PIMIN870/10/01 DT.2010-08-10 attached.

DNV Order completed: ☐ No ☒ Yes
DNV Order Completion date: 2010-08-11
Continued on separate attachment: ☐ Yes ☒ No

Marking
The stamping is placed on active and passive housing as "V"

The item[s] were inspected and tested in the condition and are found to be in accordance with the above specification/ standard.

EP No: EP029022
Mumbai
Place
2010-08-11
Date
NITIN H. MOHABE
Surveyor's sign / stamp

DNV's maximum cumulative liability shall be limited to an amount equal to ten times the remuneration paid to DNV by the customer under this contract or USD 300,000 whichever is the lesser.

Form no. OP CS-RI-7-F3, rev. 3, 2010-06-03
Page 1 of 1

## TECHNICAL FEATURES : DESCRIPTIONS

| | |
|---|---|
| **Material of construction** | **: Valve Body SS 316L (Optional SS 304)** |
| **FLAP** | **: SS 316L** |
| **Sealing** | **: Gasket Silicone Food Grade (Optional –EPDM & VITON)** |
| **Actuation** | **: Manual Override (Optional – Pneumatic Actuator)** |
| **Medium** | **: Powder & Granules** |
| **Finishing** | **: Internal: 0.5Ra, External:0.8Ra (Optional – Electro Polish)** |
| **End Connection** | **: TC End & Flange End** |
| **Size** | **: 2", 4" & 8"** |
| **Documentation** | **: Functional design Specißication (FDS) & Installation Qualißication & Operational Manual (IQOM).** |