



L&T Valves Limited

**TEST
REPORT**

REF. NO.

POD-ABFV-004

REV.NO.

0

DATE

28/01/2014

PAGE

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Proof of Design Test Report: DN 150, Class 150 AQUASEAL Butterfly Valve

1.0 Objective:

The objective of the test is to conduct a Proof of Design (POD) test as per the procedure POD-BFV-01, R2 on an AQUASEAL Butterfly Valve.

2.0 Test Details:

Valve manufacturer	M/s L&T Valves Limited, Kancheepuram
Location of test	M/s L&T Valves Limited, Manapakkam
Test dates	21/01/2014 to 28/01/2014
Customer	Internal reference
Size / Pressure class / Type	DN 150 (NPS 6) / Class 150 / AQUASEAL Butterfly Valve
Valve body heat no / Valve serial no	L84 / 2N26Y544
Valve material	IS EN 1563 EN-GJS-400-18 (SG Iron)
Body lining	Black Nitrile
Disc	IS EN 1563 EN-GJS-400-18 (SG Iron) - Nylon coated
Actuator model	Rotex ECF-125
Method of sample selection	Random
Test fluid	Water
General assembly drawing	A DWL R2Q-BF-01, R0

Reviewed
Witnessed

Test Conducted by:

S. Sugumar / N. Senthamizh Selvan

L&T Valves Limited

**N. SENTHAMIL SELVAN
LEVEL-II LT.MT.PT
L&T VALVES LIMITED**

Test Witnessed by:

V. Ramakrishnan
L&T Valves Limited

Witnessed by:

P. Venkatamahalakshmaiah
Surveyor to TUV





Proof of Design Test Report: DN 150, Class 150 AQUASEAL Butterfly Valve

3.0 Test Procedure:

<i>Procedure reference</i>	POD-BFV-01, R2
<i>Shaft orientation</i>	Horizontal
<i>Differential pressure for cycling</i>	20 bar
<i>Seat test Pressure - Hydrostatic</i>	22 bar
<i>Dwell time under pressure</i>	15 seconds
<i>Number of mechanical cycles</i>	10000 cycles
<i>Measurement of leakage</i>	Every 1000 cycles
<i>Acceptance Criteria for seat leakage - Hydrostatic</i>	No visible leakage


4.0 Test Results:

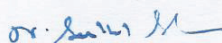
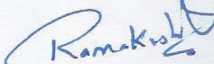

4.1 Body Shell test

Test	Pressure (bar)	Duration (second)	Leakage (ml/minute)
Hydrostatic Shell	30	60	Nil

4.2 Disc strength test

Test	Pressure (bar)	Duration (second)	Leakage (ml/minute)
Side A	30	60	Nil
Side B	30	60	Nil

Reviewed
Witnessed 

Test Conducted by:  S.Sugumar / N.Senthamizh Selvan L&T Valves Limited	Test Witnessed by:  V. Ramakrishnan L&T Valves Limited	Witnessed by:  P.Venkatamahalakshmaiah Surveyor to TUV
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