

DNV Id. No.:

Ref:- PUN/11/MK/451 Date: - 2011/12/01

# **DET NORSKE VERITAS**

## FIRE SAFE TEST CERTIFICATE

M/s. REYNOLD VALVES LTD.

J 182 MIDC TARAPUR, BOISAR DIST. THANE (MH)

Witnessed by surveyor of DET NORSKE VERITAS on 01st Dec. 2011, the fire safe testing of DN 200 mm # 150 FE Ball Valve , at your works.

## FIRE TEST WITNESS REPORT

## Description of valve tested:

Manufacturing standard

Design

Type Size /Class

Valve Sr. No. Heat No.

Drawing, No.

: API 608

: Ball valve

: 2 Piece

: DN 200MM / Class 150

: RVL/01

: 1295

: RVL/21FE/200MM REV. 0

## Material of construction

1) Body / Side piece

2) Ball

3) Body ring 4) Seal Ring

5) Gland packings

: ASTM A 216 GR. WCB

: ASTM A 351 GR CF8

: SS 304 sp. Wu with Grafoil fill : PTEF secondary metal to metal

: Grafoil

Fire safe testing is in accordance to API 607-2010 (6th Edition) and found the test results conforming to the required specifications. For further details please refer manufacturer's Doc. No: FS/DNV/20/11/01 dt. 1/12/2011.

## Range Qualified:

This valve qualifies following sizes and class ratings as per API 607 - 2010 (6th Edition)

Size:

DN 200 & Larger

Class:

#150, #300

M D KURADE Surveyor of DET NORSKE VERITAS

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritias, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million, in this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



DNV Id. No.:

Ref:- PUN/11/MK/452 Date:- 2011/12/01

# **DET NORSKE VERITAS**

## FIRE SAFE TEST CERTIFICATE

M/s. REYNOLD VALVES LTD.

J 182 MIDC TARAPUR, BOISAR DIST. THANE (MH)

Witnessed by surveyor of DET NORSKE VERITAS on 01st Dec. 2011, the fire safe testing of DN 25 mm # 800 S/W FCS Ball Valve, at your works.

## FIRE TEST WITNESS REPORT

## Description of valve tested:

Manufacturing standard

Design Type

Size /Class Valve Sr. No.

Heat No. Drawing, No. : API 608

: Ball valve : 2 Piece

: DN 25 MM / Class 800

: RVL/04

: 395

: RVL/21SW/25MM REV. 0

## Material of construction

1) Body / Side piece

2) Ball

3) Body ring4) Seal Ring

5) Gland packings

: ASTM A 105

: SS 304

: SS 304 sp. Wu with Grafoil fill

: VIRGIN PTFEI

: Grafoil

Fire safe testing is in accordance to API 607-2010 ( $6^{th}$  Edition) and found the test results conforming to the required specifications. For further details please refer manufacturer's Doc. No: FS/DNV/20/11/02 dt. 1/12/2011.

## Range Qualified:

This valve qualifies following sizes and class ratings as per API 607 - 2010 (6th Edition)

Size:

DN 25 & Below

Class:

#800, #900 , #1500.

M D KURADE Surveyor of DET NORSKE VERITAS

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Dnt Norske Ventas, then Det Norske Ventas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Ventas" shall mean the Foundation Det Norske Ventas as well as all its subsidiance, directors, officers, employees, agents and any other acting on behalf of Det Norske Ventas.



DNV Id. No.:

Ref:- PUN/11/MK/458 Date:- 2011/12/15

# **DET NORSKE VERITAS**

## FIRE SAFE TEST CERTIFICATE

M/s. REYNOLD VALVES LTD.

J 182 MIDC TARAPUR, BOISAR DIST. THANE (MH)

Witnessed by surveyor of DET NORSKE VERITAS on 15<sup>th</sup> Dec. 2011, the fire safe testing of DN 50 mm # 150 FE Ball Valve , at your works.

#### FIRE TEST WITNESS REPORT

## Description of valve tested:

Manufacturing standard

Design Type

Size /Class

Valve Sr. No.

Heat No.

Drawing, No.

: API 608

: Ball valve

: 2 Piece

: DN 50MM / Class 150

: RVL/03

: N587

: RVL/21FE/50MM REV. 0

#### Material of construction

1) Body / Side piece

2) Ball

Body ring
 Seal Ring

5) Gland packings

: ASTM A 216 GR. WCB

: SS 304

: SS 304 sp. Wu with Grafoil fill : PTEF secondary metal to metal

: Grafoil

Fire safe testing is in accordance to API 607-2010 (6<sup>th</sup> Edition) and found the test results conforming to the required specifications. For further details please refer manufacturer's Doc. No: FS/DNV/15/12/03 dt. 15/12/2011.

## Range Qualified:

This valve qualifies following sizes and class ratings as per API 607 - 2010 (6th Edition)

Size:

50 NB & Below (65, 80, 100 NB)

Class: #

#150, #300

M D KURADE
Surveyor of DET NORSKE VERITAS

If any person suffers loss or damage which is proved to have been caused by any negligent act or ornission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas as well as all its subsidiaries; directors, officers, employees, agents and any other exting on behalf of Det Norske Veritas."