

Date : 13.02.2008
File: SEP-206/08
File.: SEP-206/08

Annex to Certificate
DGRl no : 07 202 1423 WZ 1022 08
AD 2000-W0-no.: 07 202 1423 WP 1022 08

Firm: Viraj Forgings (a unit of Viraj Profiles Ltd.)
Place: G-75, MIDC, TARAPUR INDUSTRIAL AREA
& 140/1 SARAVALI, DIST. THANE, MAHARASHTRA, INDIA-401506

Item	Name of Material / Grade	Specification	Condition	Product Form	Thickness [mm]	Dimension Ø [mm] [kg/ft] SIZE	Technical Requirements	Remarks Doc-Nr.: WVL_20_03_E (2007-04)
1	STAINLESS STEEL WNR 1.4301 WNR 1.4303 WNR 1.4306 WNR 1.4307 WNR 1.4404 WNR 1.4401 WNR 1.4541 WNR 1.4571 WNR 1.4580 WNR 1.4438 WNR 1.4462	EN-10222-5 DIN 10098-3	+AT /AT	PLATE FLANGE, LOOSE PLATE FLANGE, BLIND, WELDING NECK HUBBED SLIP ON FLANGE SCREWED FLANGE, INTEGRAL FLANGE DIN 2527, DIN 2566, DIN 2573 DIN 2576, DIN 2641, DIN 2642 DIN 2655, DIN 2656, DIN 2627 DIN 2628, DIN 2629, DIN 2631 DIN 2632, DIN 2633, DIN 2634 DIN 2635, DIN 2637, DIN 2638 DIN 2673 BARS BUTT WELD FITTINGS (STUB ENDS)	PN 2.5 TO PN 100 PN 6 TO PN 320	10 TO 600 10 TO 600 100-500 mm DN 15- DN 600	PED 97/23/EC + AD 2000 W2 W10	EN 10922-1 DIN B16.9
	BF Z7 CN 18-09 BF Z3 CN 19-09 BF Z7 CND 17, 11.02 BF Z3 CND 17, 11.02 BF Z6 CNDT 17-12 BF Z6 CND 18-10 BF Z6 CNT 18-10	NFE-29204	+AT /AT	PLATE FLANGE, BLIND FLANGE LOOSE PLATE FLANGE, WELD NECK FLANGE, HUBBED SLIP ON FLANGE, LOOSE HUBBED INTEGRAL FLANGE, SCREWED FLANGE, HUBBED SOCKET WELD	PN 2.5 TO PN420	DN 10- DN 600	PED 97/23/EC	NFE-29203
	F 304 F 304H F 316 F 316H F 304L F 304L F 316L F 321H F 347 F 347H F 310 F 51	ASME/ASTM SA/A 182 A403 ASME Sec II, A, D	+AT /AT	FLANGES (SORF, SWRF, THRF, WNRTJ, WNRF, SORTJ, WN-Orifice, Lap-Joint) BUTT WELD FITTINGS BARS	150#- 2500 lbs	1/2" TO 36" 1/2" TO 24" 100-500 mm	PED 97/23/EC	ASME B 16.5/B16.36 B16.47

TUV-CERT
Certification Body for Pressure Equipment
of TUV NORD Systems GmbH & Co. KG (Esse)

TÜV NORD Systems GmbH & Co. KG



Notified Body for Pressure Equipment Directive (PED), Registration no. 0045
 Scope of approval for material manufacturer acc. to Pressure Equipment Directive 97/23/EC,
 annex I, sec. 4.3 and AD 2000-Merkblatt W0

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 Place: G-75, MIDC, TARAPUR INDUSTRIAL AREA
 & 140 /1 SARAVALI, DIST. THANE, MAHARASHTRA, INDIA-401506

Item	Name of Material / Grade	Specification	Condition	Product Form	Thickness [mm]	Dimension Ø[mm] / SIZE	Technical Requirements	Remarks Doc-Nr.: WW_20_03_E (2007-04)
1	2	3	4	5	6	7	8	9
	SUS F304 SUS F304L SUS F316 SUS F316H SUS F316L SUS F347 SUS F347H SUS F317 SUS F317L SUS F321 SUS F321H SUS F310 SUS F51	JIS G3214	+AT / AT	SLIPON HUB, SHUTOFF WELDING NECK FLANGE SLIPON PLATE, SQUARE FLANGE	5 K TO 40 K	10 TO 600	PED 97/23/EC	JIS B2220/B2291
	F 304 F304H F316 F316H F304L F316L F321 F321H F347 F347H F310 F51	ASME/ASTM SA/A 162 ASME Sec II A, D	+AT / AT	WELDING NECK, SLIPON BLIND SREWED BOSS, SO BOSS SOCKET WELD, LAPPED FLANGE	150# TO 2500# PN2.5 TO PN40	0.5" TO 36"	PED 97/23/EC	BS-4504 BS-1580 BS 10 TABLE D/E/F/H

Certification Body for Pressure Equipment
 of TÜV NORD Systems GmbH & Co. KG (Essen)

Explanation: +AT / AT = solution heat treated; N = normalized; NT = normalized and annealed; +QT / V = quenched and tempered; M = thermomechanical treated
 Hints for non harmonised materials see acc. to Directive 97/23/EC:
 The specific operation conditions have to be given by the pressure equipment manufacturer. If necessary, the involved notified body has give his agreement.

Essen, 13.02.2008
File: SEP-206/08 Hüb/Hos
Certificate-No.: 07 202 1423 WP 1022 08

Letter of Confirmation

Material manufacturer: **Viraj Forgings (A Division of Viraj Profiles Ltd.)
Survey No. 140/1, Saravali & G-75, MIDC,
Tarapur Industrial Estate, Boiser
Dist. Thane – 401 506, Maharashtra, India**

Factory: Survey No. 140/1, Saravali & G-75, MIDC,
Tarapur Industrial Estate, Boiser
Dist. Thane – 401 506, Maharashtra, India

Approval as manufacturer according to AD 2000-Merkblatt W0

Note: Re-approval

Product: **Stainless Steel Forged Flanges, Fittings and Bars**

1. We herewith certify that the requirements according to AD 2000-Merkblatt W0 comply for the scope of approval listed in the annex to the certificate.
2. According to our report no. 4406131 dated 13.02.08 you have at your disposal:
 - 2.1. Equipment which permits a proper production according to the state of the art.
 - 2.2. A quality management system which ensures the proper production and processing of materials regarding the products mentioned in the annex to the certificate as well as the observance of the Technical Regulations decisive therefor.
 - 2.3. Qualified supervisory and inspection personnel, especially a
 - Works Inspector acc. to EN 10204
 - responsible supervisor for non-destructive tests
 - responsible personnel for restamping.
3. The inspector of TÜV India examined the details and informations mentioned in the questionnaire to AD 2000-Merkblatt W0 verification on occasion of a factory inspection and convinced himself of the observance of the basic principles of the approval according to AD 2000-Merkblatt W0.

4. You are obliged to inform the inspector of essential changes or amendments of the scope of approval, of the production facilities, the competent supervising and test staff or the quality management and possible apply for a supplementary verification.
5. This confirmation is valid for 3 Years and supposes the annual approval of the observance of the material specific requirements as well as proof of constant product quality.
6. Upon request the validity time of the confirmation can be extended.
7. In the meantime the expert of TÜV India is authorized to convince himself of the observance of the requirements in substantial cases.
The charges for this verification are for your account.
8. Remark: *)
The manufacturer Viraj Forgings (A Division of Viraj Profiles Ltd.), India fulfilled the requirements acc. to Pressure Equipment Directive (97/23/EC), annex I, sec. 4.3.

Certified by the certification body for pressure equipment of TÜV NORD Systems GmbH & Co. KG, (notified body, reg. no. 0045).

TÜV NORD Systems GmbH & Co. KG
Engineering Division
Department Process Industry
Head of Department



Middelhaue



i.A. Hübinger