

Certificate

Quality-Assurance System for Manufacturer of Materials acc. to Directive 97/23/EC

Certificate no.: 01 202 IND/Q-11 0032

Name and address of the
manufacturer:

**Advanced Fittings Pvt. Ltd.
Parmar Industrial Estate. Phase II, Unit No.38,
Pelhar Village, Near Vasai Phata, Western Express
Highway, N.H.- 8, Vasai (E), India**

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 97/23/EC, Annex I, Par. 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to Directive
97/23/EC:

**QM System acc. to EN 764-5, article 4.2 and
AD 2000-Merkblatt W0**

Audit report no.:

IND/Q-11 0032

Range of materials:

Manufacturing and Supply of Pipe Fittings Seamless & Welded, Forged Flanges & Fittings and Machined Components, see annex to certificate

Manufacturing plant:

**Advanced Fittings Pvt. Ltd.
Parmar Industrial Estate. Phase II, Unit No.38,
Pelhar Village, Near Vasai Phata, Western Express
Highway, N.H.- 8, Vasai (E), India**

Valid until:

November 23, 2017

Cologne, February 24, 2015


Dipl.-Wirt.-Ing. Smitha Pazhamannil



TÜV Rheinland-Certification Body for
Pressure Equipment
TÜV Rheinland Industrie Service GmbH
Notified Body, ID-No. 0035
Am Grauen Stein, D-51105 Köln

E-106b-Rev7

Annex to Certificate No.: 01 202 IND/Q-11 0032

Details of the Validity of the Approval as Manufacturer of Materials in accordance to DGR 97/23/EC and AD2000-W0/TRD 100 respectively

Company Name: Advanced Fittings Pvt Ltd		Manufacturer		Work		Nationality		Date		Page No..		TÜV-Name /Stamp	
Location: Vasai		Parmar Industrial Estate, Phase II, Unit No.38, Pelhar Village, Near Vasai Phata, Western Express Highway, N.H.- 8, Vasai (E)		India		28-11-2014		1		TÜV Rheinland		Industrie Service GmbH	
Cur-Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions		Weight max	Technical Specifications Requirements Technical Regulations	Remarks					
				Thickness Mm	Ø Mm								
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
BW FITTINGS CARBON STEEL	SEAMLESS A234 WPB	N	ELBOW REDUCERS BENDS, TEE CAP	1.65 59.5 21.3	610	610	For ASTM Materials A PMA is required						
BW FITTINGS LTCS	SEAMLESS A 420 WPL6	NT	ELBOW REDUCERS BENDS, TEE CAP	1.65 59.5 21.3	610	610							
BW FITTINGS STAINLESS STEEL	SEAMLESS A403,304,304H/L, 304L,316,316H/L, 316Ti, 321,904L	AT	ELBOW REDUCERS BENDS, TEE CAP,STUB END	1.65 33.3 21.3	324	324							
BW FITTINGS DUPLEX STEEL	SEAMLESS UNS S31803	AT & QT	ELBOW REDUCERS BENDS, TEE CAP, STUB END	1.65 33.3 21.3	324	324							
BW FITTINGS ALLOY STEEL	SEAMLESS A234WP5, WP11, WP22, WP9, WP91	NT	ELBOW REDUCERS BENDS, TEE CAP	1.65 59.5 21.3	610	610							




Remarks

* AT = solution treated
 N = Normalized or normalizing formed
 SR = stress relieved
 M = thermo mechanical treated
 AR = not treated

QT = quenched and tempered
 NT = normalized and tempered
 S = soft annealed

a = Material
 b = delivery condition
 c = Article
 d = dimensions in tech. Regulations
 e = Weight
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Cur-Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions Thickness Mm		Weight max 1=t/ 2=kg	Technical Specifications Requirements Technical Regulations		Remarks
2	3	4	5	from to	from to	↓	Rev.: 01 of: 5	10	
				6a	6b	7a	7b	8a	8b
<p>The use of the materials according to DGR 97/23/EC is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.</p>									
BW FITTINGS CARBON STEEL	WELDED A234 WPB	N	ELBOW REDUCERS BENDS, TEE CAP	1.65 60	21.3 1219	1219			For ASTM Materials A PMA is required
BW FITTINGS LTCS	WELDED A 420 WPL6	NT	ELBOW REDUCERS BENDS, TEE CAP	1.65 60	21.3 1219	1219			
BW FITTINGS STAINLESS STEEL	WELDED A403.304.304H/L, 304L,316,316H/L, 316Ti, 321,904L	AT	ELBOW REDUCERS BENDS, TEE CAP,STUB END	1.65 60	21.3 1219	1219			
BW FITTINGS DUPLEX STEEL	WELDED UNS S31803	AT & QT	ELBOW REDUCERS BENDS, TEE CAP, STUB END	1.65 60	21.3 1219	1219			
BW FITTINGS ALLOY STEEL	WELDED A234WP5, WP11, WP22, WP9, WP91	NT	ELBOW REDUCERS BENDS, TEE CAP	1.65 60	21.3 1219	1219			
Remarks	* AT = solution treated N = Normalized or normalizing formed SR = stress relieved M = thermo mechanical treated AR = not treated		QT = quenched and tempered NT = normalized and tempered S = soft annealed		a = Material b = delivery condition c = Article d = dimensions in tech. Regulations e = Weight f = No. of tech. Regulation				

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Location: Vasai							Rev.: 01	of: 5				
Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions			Weight max	Technical Specifications Requirements Technical Regulations	Remarks		
					Thickness Mmm	Ø Mmm						
					from	Up to	from	Up to	1=t / 2=kg			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
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	SW FITTINGS CARBON STEEL	A 105	N	ELBOW TEE, UNION COUPLING NIPPLE, CAP	3.18 3.18 3.18 3.18	13.8 13.8 13.8 13.8	13.7 13.7 13.7 13.7	114.3 114.3 114.3 114.3			For ASTM Materials A PMA is required	
	SW FITTINGS LTCS	A 350 LF2	NT	ELBOW TEE, UNION COUPLING NIPPLE, CAP	3.18 3.18 3.18 3.18	13.8 13.8 13.8 13.8	13.7 13.7 13.7 13.7	114.3 114.3 114.3 114.3				
	SW FITTINGS STAINLESS STEEL	A182F,304,304H/L, 304L,316,316H/L, 316Ti, 321,904L	AT	ELBOW TEE, UNION COUPLING NIPPLE, CAP	3.18 3.18 3.18 3.18	13.8 13.8 13.8 13.8	13.7 13.7 13.7 13.7	114.3 114.3 114.3 114.3				
	SW FITTINGS DUPLEX STEEL	A182 F51, F53, F55, F60	AT & QT	ELBOW TEE, UNION COUPLING NIPPLE, CAP	3.18 3.18 3.18 3.18	13.8 13.8 13.8 13.8	13.7 13.7 13.7 13.7	114.3 114.3 114.3 114.3				
	SW FITTINGS ALLOY STEEL	A 182 F5, F11, F22, F9, F91	NT	ELBOW TEE, UNION COUPLING NIPPLE, CAP	3.18 3.18 3.18 3.18	13.8 13.8 13.8 13.8	13.7 13.7 13.7 13.7	114.3 114.3 114.3 114.3				
Remarks		* AT = solution treated N = Normalized or normalizing formed SR = stress relieved M = thermo mechanical treated AR = not treated				QT = quenched and tempered NT = normalized and tempered S = soft annealed				a = Material b = delivery condition c = Article d = dimensions in tech. Regulations e = Weight f = No. of tech. Regulation		

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Location: Vasai					Rev.: 01	of: 5						
Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions		Weight max 1=t / 2=kg	Technical Specifications Requirements Technical Regulations	Remarks			
					Thickness mm	Ø Mmm						
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
	FLANGE CARBON STEEL	A 105	N	WELD NECK SLIP ON BLIND SOCKETWELD	6	60	21.3	610				For ASTM Materials A PMA is required
	FLANGE LTCS	A 350 LF2	NT	WELD NECK SLIP ON BLIND SOCKETWELD	6	60	21.3	610				
	FLANGE STAINLESS STEEL	A182F,304,304H/L, 304L,316,316H/L, 316Ti, 321,904L	AT	WELD NECK SLIP ON BLIND SOCKETWELD	6	60	21.3	610				
	FLANGE DUPLEX STEEL	A182 F51, F53, F55, F60	AT & QT	WELD NECK SLIP ON BLIND SOCKETWELD	6	60	21.3	610				
	FLANGE ALLOY STEEL	A 182 F5, F11, F22, F9, F91	NT	WELD NECK SLIP ON BLIND SOCKETWELD	6	60	21.3	610				



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					from to	from to	Re sult		
1	2	3	4	5	6a 6b 7a 7b 8a 8b	8a 8b	9	10	
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	CARBON STEEL	A 105	N	WELDOLET, SOCKOLET, ELBOLET, THREADOLET	2.24 8.56 13.7 114.3	114.3		For ASTM Materials A PMA is required	
	LTCS	A 350 LF2	NT	WELDOLET, SOCKOLET, ELBOLET, THREADOLET	2.24 8.56 13.7 114.3	114.3			
	STAINLESS STEEL	A182F,304,304H/L, 304L,316,316H/L, 316Ti, 321,904L	AT	WELDOLET, SOCKOLET, ELBOLET, THREADOLET	2.24 8.56 13.7 114.3	114.3			
	DUPLEX STEEL	A182 F51, F53, F55, F60	AT & QT	WELDOLET, SOCKOLET, ELBOLET, THREADOLET	2.24 8.56 13.7 114.3	114.3			
	ALLOY STEEL	A 182 F5, F11, F22, F9, F91	NT	WELDOLET, SOCKOLET, ELBOLET, THREADOLET	2.24 8.56 13.7 114.3	114.3			
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