

ARMFLEX



EXPANSION JOINTS



ARMFLEX

STANDARD WARRANTY

All merchandise sold by us is subject to this Standard Warranty. Our products are warranted for one year to be free from defects in material or workmanship. Our liability for breach of any and all warranties, expressed or implied, is limited to refunding our invoice price of the product, or at our option, to replacement of the product. If any product manufactured by Aurum Mount Industrial Corporation is found by us to be defective either in material or workmanship, under proper usage and service, the invoice price will be refund or at our option will be replaced free of charge including transportation charges but not cost of installation. The refund of the invoice price or the replacement of the product is the maximum liability of the Company. The sale of our products under any other warranty or guarantee, expressed or implied, is not authorized by the Company.

TEN ADVANTAGEOUS FEATURES OF USING ARMFLEX FLEXIBLE RUBBER JOINTS

1. ABSORBS VIBRATION, NOISE AND SHOCK

Sound, traveling axially through ARMFLEX Joints, is stopped at once. Water hammer, pumping impulses and water born noises are absorbed by the molded light-weight thin-wall structure.

2. EASY TO INSTALL, EASY TO REMOVE

Loose flanges, no need of gasket or packing, and elastic spherical body make the joint easy to install or remove.

3. SECURITY ASSURED IN USAGE

Special spherical carcass endables its body, when subjected to high pressure and expansion, not contacting with the connecting bolt head. Thus, the joint may be used in a sense of damage proof and full security.

4. HIGHER BURST STRENGTH

Spherical shape is stronger than cylindrical shape or other configuration. Thus under pressure, ARMFLEX Joint is 4 times as strong as a cylindrical joint. Additionally, our products are made of best suitable material, and hence their burst pressure is much higher than those of other makes.

5. SUITABLE FOR SUCTION AND DELIVERY (DISCHARGE)

Owing to its excellent molding technique with its tough chemical fiber, ARMFLEX Joint can satisfactorily withstand the suction and discharge. Vacuum rating can stand up to 750mm Hg.

6. HIGH EFFICIENCY

ARMFLEX Joints has streamlined, flowing arch to reduce turbulence, sediment build-up, thrust area and the effects of thrust on the piping system equipment.

7. LOW DEFORMATION UNDER PRESSURE

Interanal pressure ins exerted in all directions distributing forces evenly over a large area. Hence, the deformation of ARMFLEX Joint due to pressure is much lower than that of other makers.

8. LIGHT AND COMPACT

The space required for the installation of ARMFLEX Joint is about half of the requirement of cylindrical. Weight is about one third.

9. GREATER MOVEMENTS ARE AVAILABLE

Axial compression and elongation, deflection and angular movements will be greater.

10. WIDE SERVICE RANGE

Made with chemical resistant elastomers such as Neoprene, Nitrile, Hypalgon, EPDM: insures a product compatible with the fluid being pumped or piped. Operate up to 16KG and -20°C to 100°C.

USE IN:

- Air conditioning systems
- Air ducts
- Chemical lines
- Circulating water lines
- Compressor lines
- Paper stock lines
- Pump-suction and discharge
- Refrigeration lines
- Turbine to condenser

MARINE INSTALLATIONS

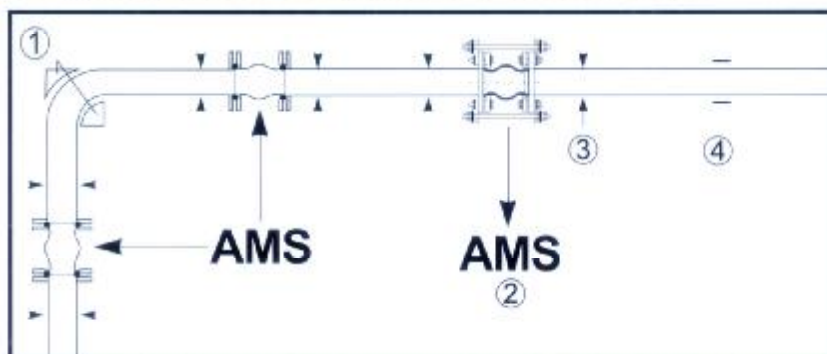
- Air intake on Diesel engines
- Ballast
- Between scoop and condenser
- Circulating lines to condenser
- Fog foam lines
- Fire and bilge pump lines
- Forced draft
- Overboard discharge
- Sanitary system
- Ventilation lines

• Applicable fluids

Water, warm water, seawater, weak, acids, alkalies, compressed air, etc.

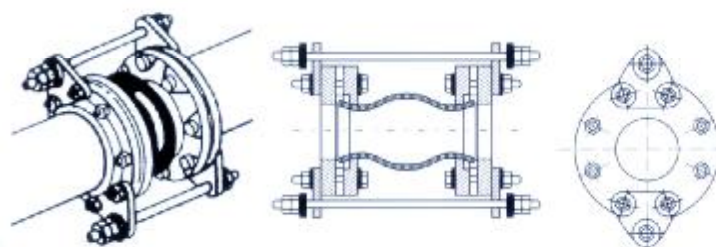
Remarks: For the other kinds of fluids, to which this connector become applicable by changing the composition of its constituent rubber, please consult the manufacturer.

CONTROL RODS-CONTROL OF EXTENSION



INSTALLMENT SCHEME

- 1) anchor
- 2) with control rods
- 3) fixation points
- 4) guiding points



APPLICTIONS

It is used to prevent an excessive extension the control rod or compression (cf. Rating table) which could damage the expansion joint: in general when there are high pressure risks (starting a pump...) or when wide temperature fluctuations occur.

CONTROL ROD UNIT MUST BE INSTALLED WHEN PRESSURE [TEST SURGE, OPERATING] EXCEEDS THE RATING BELOW.

JOINTS SIZE	AMS[PSIG]	AMT[PSIG]
1~4"	150	150
5"~10"	135	135
12"~14"	90	90
16"~28"	45	45

MOUNTING INSTRUCTIONS

- 1) The alignment of the piping system should be adjusted and secured with fixation points as close as possible on each side of the expansion joints at a distance less than 3 times the pipes nominal diameter.
- 2) These fixation points must be installed when mounting an expansion joint with control rods or in a case of an elbow pipe. If there is a considerable distance between 2 fixation points, guiding points can be installed in order to support and guide the pipe (cf. Installation scheme)
- 3) When installing take care the rubber expansion joint don't support compression or extension due to the weight of the upstream or downstream pipe.
- 4) Verify that the upstream and downstream pipe alignment does not deviate more than 1/8" (3mm) and that the expansion joint does not support heavy weight.
- 5) Verify that the surfaces coming in contact with the joint are perfectly clean and without cutting edges (pipe) thus avoiding damage to the joint surface.
- 6) Insert the bolts on the arch side of the joint, thus avoiding direct contact with the rubber.
- 7) If welding is carried out within close range, cover or dismount the expansion joint.
- 8) Do not paint or coat the joint with insulation.
- 9) During installation, the precompression should not exceed 5mm.
- 10) Store the joint in flat position avoiding humidity and extreme temperatures.

Mounting order:

- 1-Upstream pipe; anchor
- 2-Downstream pipe; anchor
- 3-Expansion joint.

- 3.b) When installing the rubber expansion joint take care (specially for type AMU) that it must not be twisted in any case.

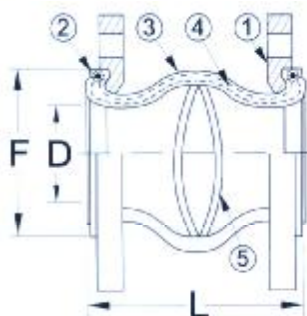
NOTE:
Bolt tightness should be checked daily within the first month (one week) after services and checked periodically thereafter.



AMS AMSH SERIES

SINGLE-SPHERE CONNECTORS

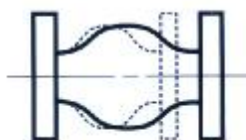
With Floating Flanges



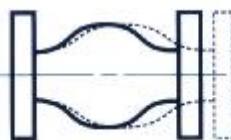
SYMBOL	PART	ENGINEERING MATERIAL
1	FLANGES	SS41(CHANGEABLE)
2	WIRE	CARBON STEEL WIRES STRAND
3	ELASTOMER	SPECIAL SYNTHETIC RUBBER
4	REINFORCING FABRIC	SYNTHETIC FIBER
5	VACUUM RING	SUS304

ALLOWABLE MOVEMENTS

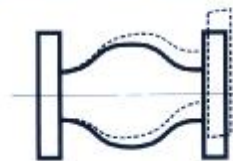
1.AXIAL COMPRESSION



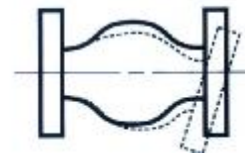
2.AXIAL ELONGATION



3.TRANSVERSE MOVEMENT



4.ANGULAR DEFLECTION



DIMENSION [mm]

ITEM NO.	SIZE I.D.	L	D ϕ	F ϕ	Allowable Movements in Operation			
					Axial Compression	Axial Elongation	Transverse Movement	Angular Deflection
AMS-101	1"	95	25	60	8 mm	4 mm	8 mm	15°
AMS-101Q	1-1/4"	95	40	69	8	4	8	15°
AMS-101H	1-1/2"	95	40	69	8	4	8	15°
AMS-102	2"	105	52	86	8	5	8	15°
AMS-102H	2-1/2"	115	68	106	12	6	10	15°
AMS-103	3"	130	76	116	12	6	10	15°
AMS-104	4"	135	103	150	18	10	12	15°
AMS-105	5"	170	128	180	18	10	12	15°
AMS-106	6"	180	152	209	18	10	12	15°
AMS-108	8"	205	194	260	25	14	22	15°
AMS-110	10"	240	250	320	25	14	22	15°
AMS-112	12"	260	300	367	25	14	22	15°
AMS-114	14"	265	320	408	25	16	22	15°
AMS-116	16"	265	372	472	25	16	22	15°
AMS-118	18"	265	415	522	25	16	22	15°
AMS-120	20"	265	454	570	25	16	22	15°
AMS-124	24"	254	580	690	19	13	19	15°
AMS-128	28"	254	680	800	19	13	19	15°



DIMENSION [mm]

ITEM NO.	SIZE I.D.	L	D \varnothing	F \varnothing	Allowable Movements in Operation			
					Axial Compression	Axial Elongation	Transverse Movement	Angular Deflection
AMS-201	1"	6"	25	60	1/2"	3/8"	1/2"	15°
AMS-201Q	1-1/4"	6"	40	69	1/2"	3/8"	1/2"	15°
AMS-201H	1-1/2"	6"	40	69	1/2"	3/8"	1/2"	15°
AMS-202	2"	6"	52	86	1/2"	3/8"	1/2"	15°
AMS-202H	2-1/2"	6"	68	106	1/2"	3/8"	1/2"	15°
AMS-203	3"	6"	76	116	1/2"	3/8"	1/2"	15°
AMS-204	4"	6"	103	150	5/8"	3/8"	1/2"	15°
AMS-205	5"	6"	128	180	5/8"	3/8"	1/2"	15°
AMS-206	6"	6"	152	209	5/8"	3/8"	1/2"	15°
AMS-208	8"	6"	194	260	5/8"	3/8"	1/2"	15°
AMS-210	10"	8"	250	320	5/8"	3/8"	1/2"	15°
AMS-212	12"	8"	300	367	3/4"	1/2"	3/4"	15°
AMS-214	14"	8"	320	408	3/4"	1/2"	3/4"	15°
AMS-216	16"	8"	372	472	3/4"	1/2"	3/4"	15°
AMS-218	18"	8"	415	522	3/4"	1/2"	3/4"	15°
AMS-220	20"	8"	454	570	3/4"	1/2"	3/4"	15°
AMS-224	24"	10"	580	690	3/4"	1/2"	3/4"	15°
AMS-228	28"	10"	680	800	3/4"	1/2"	3/4"	15°

ITEM NO.	SIZE I.D.	L	D \varnothing	F \varnothing	Allowable Movements in Operation			
					Axial Compression	Axial Elongation	Transverse Movement	Angular Deflection
AMS-301	1"	130	25	60	12	9	12	15°
AMS-301Q	1-1/4"	130	40	69	12	9	12	15°
AMS-301H	1-1/2"	130	40	69	12	9	12	15°
AMS-302	2"	130	52	86	12	9	12	15°
AMS-302H	2-1/2"	130	68	106	12	9	12	15°
AMS-303	3"	130	76	116	12	9	12	15°
AMS-304	4"	130	103	150	14	9	14	15°
AMS-305	5"	130	128	180	14	9	14	15°
AMS-306	6"	130	152	209	14	9	14	15°
AMS-308	8"	130	194	260	14	9	14	15°
AMS-310	10"	130	250	320	14	9	14	15°
AMS-312	12"	130	300	367	16	9	16	15°

OPERATING CONDITIONS

AMS

(1"-12") (14"-28")

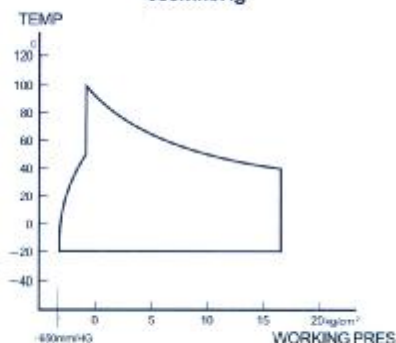
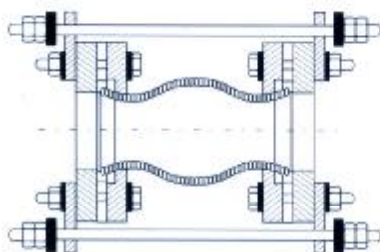
AMSH

(1"-12") (14"-28")

- Operating Pressure
- Burst Pressure
- Vacuum Rating
- Temperature

16 kg/cm² 8 kg/cm²
 60 kg/cm² 24 kg/cm²
 650mm/Hg

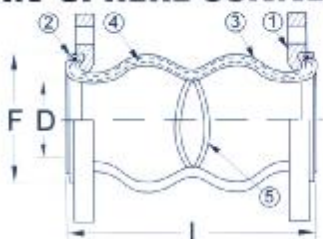
25 kg/cm² 16 kg/cm²
 75 kg/cm² 48 kg/cm²
 650mm/Hg





AMT AMTH SERIES

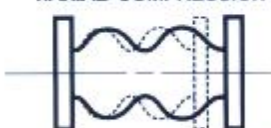
TWIN-SPHERE CONNECTORS With Floating Flanges



SYMBOL	PART	ENGINEERING MATERIAL
1	FLANGES	SS41(CHANGEABLE)
2	WIRE	CARBON STEEL WIRES STRAND
3	ELASTOMER	SPECIAL SYNTHETIC RUBBER
4	REINFORCING FABRIC	SYNTHETIC FIBER
5	VACUUM RING	SUS 304

ALLOWABLE MOVEMENTS

1.AXIAL COMPRESSION



2.AXIAL ELONGATION



3.TRANVERSE MOVEMENT



4.ANGULAR DEFLECTION



DIMENSION (mm)

ITEM NO.	SIZE I.D.	L	D ϕ	F ϕ	Allowable Movements in Operation			
					Axial Compression	Axial Elongation	Transverse Movement	Angular Deflection
AMT-101H	1-1/2"	175	40	69	50	30	45	35°
AMT-102	2"	175	52	86	50	30	45	35°
AMT-102H	2-1/2"	175	68	106	50	30	45	35°
AMT-103	3"	175	76	116	50	35	45	35°
AMT-104	4"	225	103	150	50	35	40	35°
AMT-105	5"	225	128	180	50	35	40	35°
AMT-106	6"	225	152	209	50	35	40	35°
AMT-108	8"	325	194	260	60	35	35	30°
AMT-110	10"	325	250	320	60	35	35	30°
AMT-112	12"	325	300	367	60	35	35	30°
AMT-114	14"	350	320	408	40	30	30	20°
AMT-116	16"	350	372	472	40	30	30	20°
AMT-118	18"	350	415	522	40	30	30	20°
AMT-120	20"	350	454	570	40	30	30	20°
AMT-124	24"	350	580	690	40	30	30	20°

DIMENSION (mm)

ITEM NO.	SIZE I.D.	L	D ϕ	F ϕ	Allowable Movements in Operation			
					Axial Compression	Axial Elongation	Transverse Movement	Angular Deflection
AMT-201H	1-1/2"	7"	40	69	50	30	45	35°
AMT-201	2"	7"	52	86	50	30	45	35°
AMT-202H	2-1/2"	7"	68	106	50	30	45	35°
AMT-203	3"	7"	76	116	50	35	45	35°
AMT-204	4"	9"	103	150	50	35	40	35°
AMT-205	5"	9"	128	180	50	35	40	30°
AMT-206	6"	9"	152	209	50	35	40	30°
AMT-208	8"	13"	194	260	60	35	35	30°
AMT-210	10"	13"	250	320	60	35	35	30°
AMT-212	12"	13"	300	367	60	35	35	20°



OPERATING CONDITIONS

- Operating Pressure
- Burst Pressure
- Vacuum Rating
- Temperature

AMT

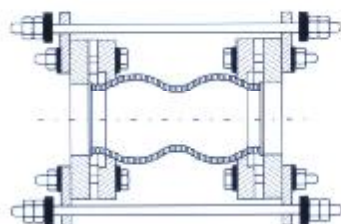
(1-1/2" - 12") (14" - 24")

16 kg/cm² 8 kg/cm²
60 kg/cm² 24 kg/cm²
650 mm/Hg

AMTH

(1-12") (14" - 24")

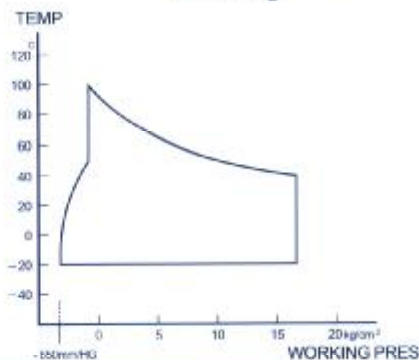
25 kg/cm² 16 kg/cm²
75 kg/cm² 48 kg/cm²
650 mm/Hg



AMT WITH ROOT RING



AMU SERIES



ROOT RING MUST BE INSTALLED WHEN PRESSURE (TEST SURGE, OPERATING) EXCEEDS THE RATING BELOW:

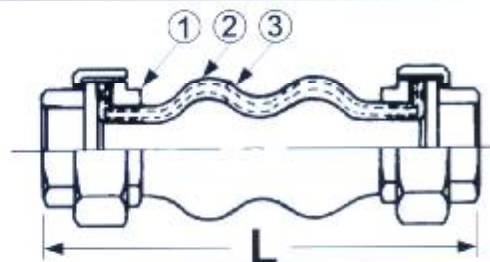
5" (125MM) THRU 10" (250MM) - 135 PSIG
12" (300MM) THRU 14" (350MM) - 91 PSIG
16" (400MM) THRU 24" (600MM) - 45 PSIG

TWIN-SPHERE CONNECTORS

With Union Threads

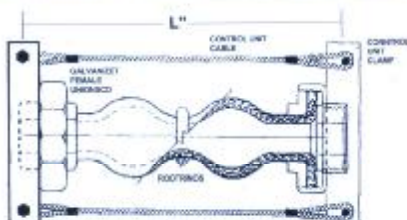
SYMBOL	PART	ENGINEERING MATERIAL
1	UNION	F302
2	REINFORCING CLOTH	NYLON FABRIC
3	ELASTOMER	SYNTHETIC RUBBER

STANDARD ITEM EMPLOYS BS UNION. MAY BE REPLACED WITH ANSI, DIN, AND OTHER STANDARD.



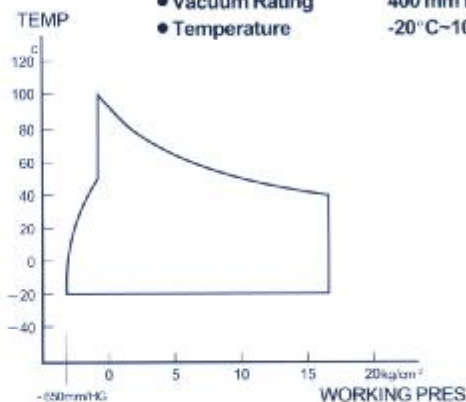
DIMENSION [mm]

SIZE I.D.	L	Allowable Movements in Operation			
		Axial compression	Axial elongation	Transverse movement	Angular deflection
15(1/2")	203mm	22mm	6mm	22mm	30°
20(3/4")	203	22	6	22	30°
25(1")	203	22	6	22	25°
32(1-1/4")	203	22	6	22	25°
40(1-1/2")	203	22	6	22	20°
50(2")	203	22	6	22	15°
65(2-1/2")	225	22	6	22	12°
80(3")	225	22	6	22	10°



OPERATING CONDITIONS

- Operating Pressure 10 kg/cm²
- Burst Pressure 50 kg/cm²
- Vacuum Rating 400 mm HG
- Temperature -20°C~100°C





**CERTIFICADO DE APROBACIÓN DEL SISTEMA DE CALIDAD
CERTIFICATE OF QUALITY SYSTEM APPROVAL**

N° CE-PED-01-AIC 001-05-CHN

BUREAU VERITAS S.A., actuando dentro del campo de su notificación (organismo notificador número 0052), declara que el sistema de calidad aplicado por el fabricante para la producción, inspección final y ensayo del equipo a presión identificado a continuación, ha sido examinado según los requisitos del artículo 11 del Anexo II de la Directiva de Equipos a Presión N° 87/23/CEE, y satisface las disposiciones correspondientes de la directiva que se aplica.

BUREAU VERITAS S.A., acting within the scope of its notification (notified body number 0052), attests that the quality system operated by the manufacturer for final inspection and testing of the pressure equipment identified hereunder has been examined against the provisions of article 11, module D1, of the Pressure Equipment directive n° 87/23/EEC, and found to satisfy the provisions of this directive which apply to it.

Fabricante (nombre) / Manufacturer (name):	ARMFLEX IND CORP
Ubicación / Address:	0006 South of Changhong Road, Lushi Village, Wuchong District, Suzhou City, Jiangsu, China
Marca comercial / Trade Mark:	ARMFLEX
Descripción del equipo / Equipment description:	Rubber expansion joint
Identificación de los equipos afectados (esta columna si es necesaria) / Identification of equipment concerned (if attached where necessary):	This certificate doesn't cover any pressure accessory and steel flanges that could be added to rub expansion as they are defined in drawing.
Cada certificado es válido hasta (MM/AAAA) / This certificate is valid until (MM/AAAA):	07/2008

La aprobación está condicionada a la realización de auditorías, ensayos y verificaciones llevadas a cabo por Bureau Veritas, según las condiciones establecidas en el contrato firmado entre el fabricante y Bureau Veritas.
The approval is conditional upon the surveillance audits, tests and verifications to be carried out by Bureau Veritas as per the provisions stated in the agreement signed by both the manufacturer and Bureau Veritas.

Cada certificado será declarado nulo y el fabricante será sancionado en el caso de cualquier incumplimiento de sus obligaciones, cuando el fabricante no cumple con sus obligaciones según el acuerdo con respecto a: (a) implementación de su sistema de calidad aprobado, (b) verificación del equipo con el tipo y (c) inspección y ensayo del producto final, y de forma general, cuando el fabricante no cumple en particular con cualquiera de sus obligaciones incluidas en la Directiva N° 87/23/CEE del 29 de mayo de 1987 respecto de los (a) requisitos (a) aplicables.
This certificate shall be deemed to be void and the manufacturer shall also bear any consequences pursuant to its use, where the manufacturer fails to comply with its obligations as per the agreement in respect of (a) implementation of the approved quality system, (b) conformity of the equipment with the type and (c) inspection and tests on the final product, and generally where the manufacturer fails to comply with any of its obligations under directive n° 87/23/EEC of 29 May 1987 as transposed in the applicable law.

Realizado en / Made at	07/2008 (MM/AAAA) / 07/2008 (MM/AAAA)	Firmado por / Signed by	Firma / Signature
Shanghai	07/2008	Johnson Kim	

Código de registro / Registration code: 202501-216-0008

Este certificado está sujeto a las condiciones de los requisitos generales de notificación de Bureau Veritas según el acuerdo firmado por el fabricante.
This certificate is subject to the terms of Bureau Veritas General Conditions of Notification attached to the agreement signed by the applicant.



CERTIFICATE OF REGISTRATION

This is to certify that the
Quality Management System of

ARMFLEX IND CORP

No.106 South of Changhong Road, Lushi Village, Wuchong District, Suzhou City, Jiangsu, China

苏州育斌实业有限公司

中国江苏省苏州市工业园区星港街106号

For Manufacture of EPDM, NEOPRENE, HYPALON, BUTYL and NBR Rubber Expansion Joint.

橡胶膨胀节的制造 (橡胶材料: 三元乙丙橡胶、氯丁橡胶、丁腈橡胶、丁基橡胶和聚乙炔橡胶)

Has been assessed by AFAQ-EAQA and complies with the
Quality Management System requirements of

ISO 9001:2000

CERTIFICATE NO:	ORIGINAL DATE OF CERTIFICATION	DATE OF ISSUE	DATE OF EXPIRY
3834	22 July, 2004	22 July, 2006	21 July, 2007



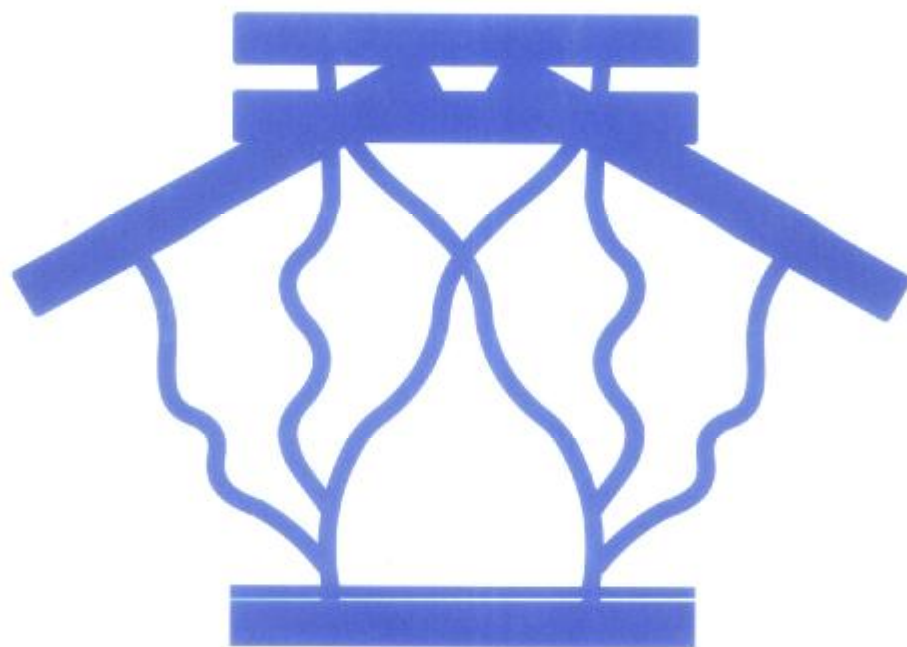
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APPROVED BY

ON BEHALF OF
AFAQ-EAQA LTD



FLEXIBLE RUBBER JOINT



金陵實業股份有限公司

AURUM MOUNT INDUSTRIAL CORPORATION

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