



玫德集团有限公司

JINAN MEIDE CASTING CO., LTD

DI GROOVED FITTINGS AND COUPLINGS-LIGHT-DUTY RIGID

COUPLING

Type: 1GX

Doc No:DS-400-1GX-01-E

1.0 PRODUCT OVERVIEW

The light-duty rigid couplings are used for grooved pipeline connection. At the joint part, the adjacent pipe ends are not allowed to have relative angular displacement and corresponding axial rotation.



Dimensions:

11/4"(DN32)–10"(DN250)

Design Standard:

ISO6182、AWWA C606、GB 5135.11、GB/T 36019

Connection Standard:

ASME B36.10、ASTM A53-A53M、ISO 4200、GB/T 3091

Working Pressure:

175PSI-363PSI

Application:

The new type flexible couplings are suitable for medium and low pressure pipeline systems with nominal pressure 175-363 PSI, nominal size DN32-DN250, temperature range of - 20 °C+180°C, which are widely applied in water supply and drainage, fire-fighting, air conditioning, etc.

Pipe Material:

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Welded and seamless rolled steel pipes according to ASME B36.10、ASTM A53-A53M、ISO 4200、GB/T 3091

Surface Treatment:

- ☐ Electrophoretic painting
- ☐ Epoxy power painting
- ☐ Hot-dip galvanizing
- ☐ Black
- ☐ Others would be available upon clients' detailed request

2.0 APPROVALS



3.0 SPECIFICATIONS

Housing:

Ductile iron 65-45-12, nodularity is higher than 90% to ensure the excellent mechanical and physical properties of the products.

Gasket:

1、EPDM Gasket, code E:

Temperature: $-34^{\circ}\text{C} \sim +110^{\circ}\text{C}$ ($-30^{\circ}\text{F} \sim +230^{\circ}\text{F}$);

Applicable media: water, gas, diluted acid (base), and other chemicals (excluding hydrocarbons)

Note: Strictly prohibit the use of oil and hydrocarbons.

2、NBR, code D:

Temperature: $-29^{\circ}\text{C} \sim +82^{\circ}\text{C}$ ($-20^{\circ}\text{F} \sim +180^{\circ}\text{F}$);

Applicable media: Petroleum products, vegetable oils, mineral oils, etc.

Note: strictly prohibit use with high temperature substances.

3、Silicone Rubber, code S:

Temperature: $-40^{\circ}\text{C} \sim +177^{\circ}\text{C}$ ($-40^{\circ}\text{F} \sim +350^{\circ}\text{F}$)

Applicable media: High temperature and dry air and some high temperature chemicals, drinking water and so on.

4、Chloroprene Rubber, code LD:

Temperature: $-32^{\circ}\text{C} \sim +82^{\circ}\text{C}$ ($-26^{\circ}\text{F} \sim +180^{\circ}\text{F}$)

Applicable media: sea water

5、Fluororubber, code F:

Temperature: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim +356^{\circ}\text{F}$)

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Applicable media: Hot oil, some chemical products, good oxidation resistance.

Bolts/Nuts:

ANSI Heavy Hex Nut

1. Material: SAE J995 2.
2. Thread: ANSI B 1.1-1982, class 2B.
3. Surface Treatment: Zinc electroplated per ASTM B633 CLASS FE/ZN5 TYPE III , thickness $\geq 5\mu\text{m}$ per class SC1.

Metric Heavy Hex Nut

1. Material: ISO 898-2:1992 \ GB/T3098.2-2000 Class 8.
2. Thread: ISO 261, tolerance 6h for M10& M12, 7h for M16 and above.
3. Surface Treatment: Zinc Electroplated followed by a yellow chromate dip per ISO 2081 FE/ZN5, ISO4520 CLASS 1A.

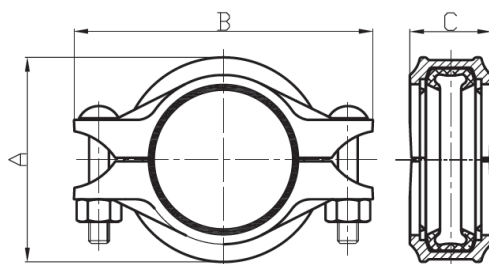
ANSI Oval Neck Track Bolt

1. Material: SAE J429 5.
2. Thread: UNC thread per ANSI B 1.1 Class 2A.
3. Surface Treatment: Silver chromate electroplated per ASTM B633 CLASS FE/ZN5 TYPE III, thickness $\geq 5\mu\text{m}$ per class SC1.

Metric Oval Neck Track Bolt

1. Material: ISO 898-1: 1992 \ GB/T3098.1-2000 Class 8.8.
2. Thread: ISO metric thread per ISO 261, tolerance 6h.
3. Surface Treatment: Yellow chromate electroplated per ISO 2081 FE/ZN5 ISO4520 CLASS 1A.

4.0 DIMENSIONS AND PERFORMANCE



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Nominal Size	Pipe O.D	Working Pressure	Dimensions			Bolt Size
			A	B	C	
DN/in	mm/in	PSI/MPa	mm/in	mm/in	mm/in	No.-Size mm
32	42.4	363	65	103.5	44	2-3/8X55
1 1/4	1.669	2.50	2.56	4.07	1.73	2-M10X57
40	48.3	363	70.8	108	44	2-3/8X55
1 1/2	1.900	2.50	2.79	4.25	1.73	2-M10X57
50	60.3	363	82.5	129.5	44	2-3/8X55
2	2.375	2.50	3.25	5.10	1.73	2-M10X57
65	73.0	363	94.5	136	44	2-3/8X55
2 1/2	2.875	2.50	3.72	5.35	1.73	2-M10X57
65	76.1	363	98	138	44	2-3/8X55
2 1/2	3.000	2.50	3.86	5.43	1.73	2-M10X57
80	88.9	363	110	152	45	2-3/8X55
3	3.500	2.50	4.33	5.98	1.77	2-M10X57
100	108.0	363	130	174	47	2-3/8X55
4	4.250	2.50	5.12	6.85	1.85	2-M10X57
100	114.3	363	140	183	47	2-3/8X55
4	4.500	2.50	5.51	7.20	1.85	2-M10X57
125	133	363	160	212	49	2-1/2X70
5	5.250	2.50	6.30	8.35	1.93	2-M12X70
125	139.7	363	168	220	49	2-1/2X70
5	5.500	2.50	6.61	8.66	1.93	2-M12X70
150	159.0	363	186	238	50	2-1/2X70
6	6.250	2.50	7.32	9.37	1.97	2-M12X70
150	165.1	363	195	247	50	2-1/2X70
6	6.500	2.50	7.68	9.72	1.97	2-M12X70
200	219.1	363	251	316	58	2-5/8X80
8	8.625	2.50	9.88	12.44	2.28	2-M16X85
250	273	363	311	384	58	2-3/4X115
10	10.75	2.50	12.24	15.12	2.28	2-M20X115

5.0 REFERENCE MATERIALS

Approved certification for Grooved Fittings and Couplings

I-JM-Grooved fitting: Installation Instructions for grooved fittings and couplings

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