

吉瑞普
Grip Pipe Tech

BEIJING GRIP PIPE TECHNOLOGY CO., LTD.

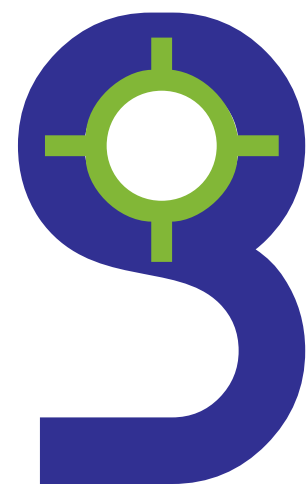


吉瑞普
Grip Pipe Tech



COMPANY PROFILE

PRODUCTS OVERVIEW



吉瑞普
Grip Pipe Tech

Beijing Grip Pipe Technology Company Limited

Started its pipe couplings and clamps R&D in the late 1990s and started manufacturing in early 2000. Our patent reliable and high quality pipe couplings and clamps were popular among military industries soon after they obtained the samples. Our products ideally solved their technical problems.

Since the, BeijingGrip was acknowledged as an appointed pipe couplings supplier for marine equipment, shipbuilding, oil & gas in China for over decades.

We continue developing and improving our products to meet customers increasingly demands across China domestic and overseas marketplaces .

Our company are certified by **ISO9001-2008**, and our pipe couplings are type approved by **ABS, BV, CCS, DNV, RINA, KR, LR, Class NK**, all of these recognise our product quality and make us the No.1 pipe couplings manufacturer in China. We have 2000 square meters manufacturing workshop, two R&D teams and one QC team to ensure timely and qualified production.

Along with the development and business growth, we expanded overseas markets from the year 2012. Our mission is to supply our high quality and cost-effective pipe couplings to users worldwide!



GRIP-G

Axially Restrained With Double Anchor Rings Pipe Coupling

Page 06



GRIP-GS

Customized narrow coupling.

Page 11



GRIP-D

Double Lock Pipe Clamp (Pipe repair with a 2 lock active sealing system coupling)

Page 15



GRIP-GF

Fireproof Coupling

Page 19



GRIP-RZ

Coupled pipe repair clamp

Page 23



GRIP-GTG

Axially restrained coupling for metal and non-metal pipes connection

Page 25



GRIP-M

The multifunctional coupling--- connection and compensator in one

Page 08



Grip-R

Pipe Repair Clamp

Page 13



Grip-Z

Reinforced Axially Restrained Coupling

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GRIP-LM

Pull rod clamps

Page 21



GRIP-GT

Axially restrained coupling with copper ring

Page 25



GRIP-RT

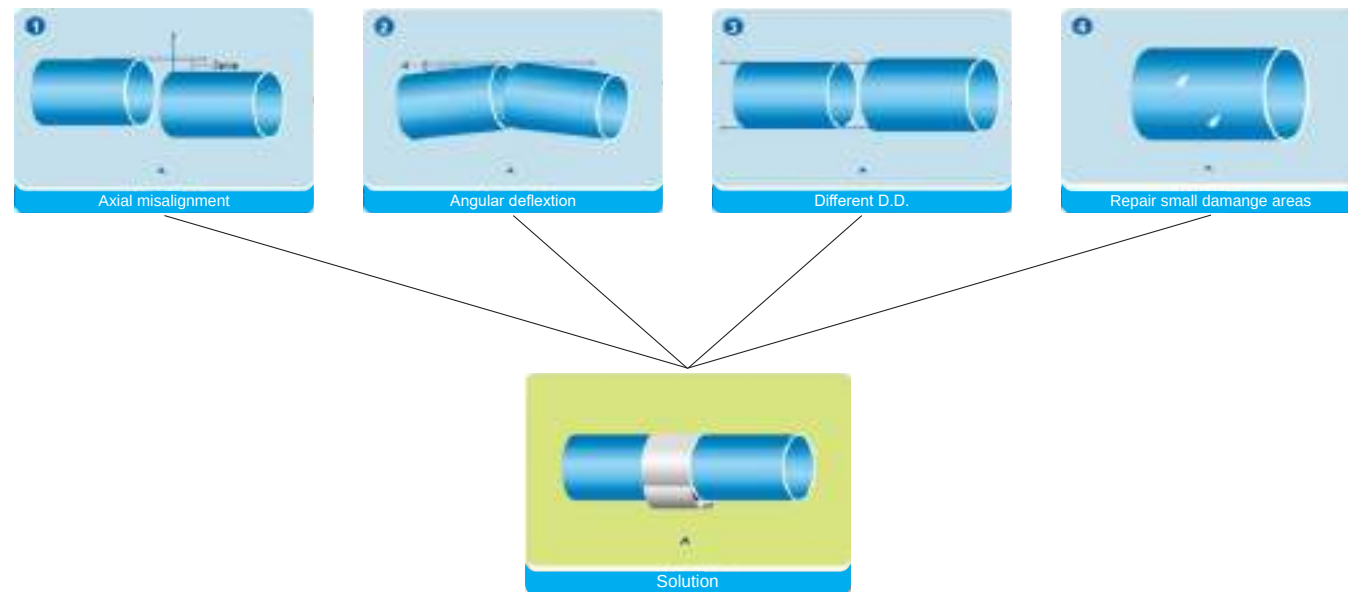
Double Lock Pipe Coupling with Side Outlet

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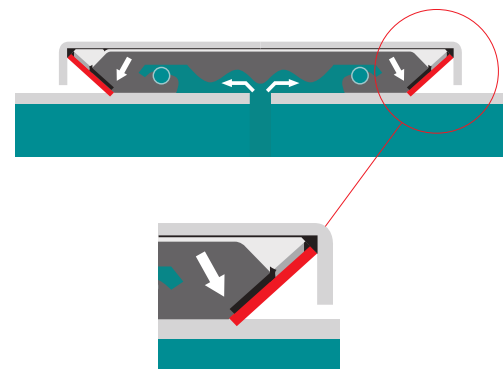
Products Overview

GRIP pipe couplings offer you an easy way to install, a time saving and money saving solution. GRIP pipe couplings allow pipes to be joined without the need for flanging, grooving, threading or welding. By simply putting two pipes together and connecting with a GRIP pipe coupling, space, weight, time and cost savings are achieved with every installation.



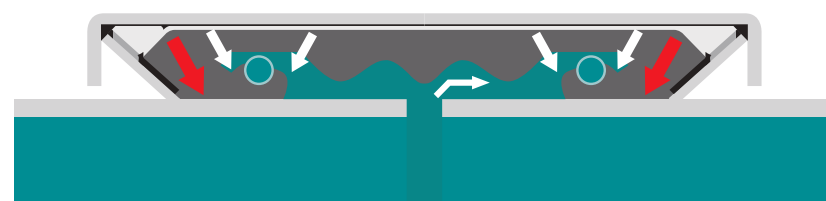
Progressive sealing effect

(Lip with pressure equalisation channel)
Increasing internal pressure increase the contact pressure of sealing lips



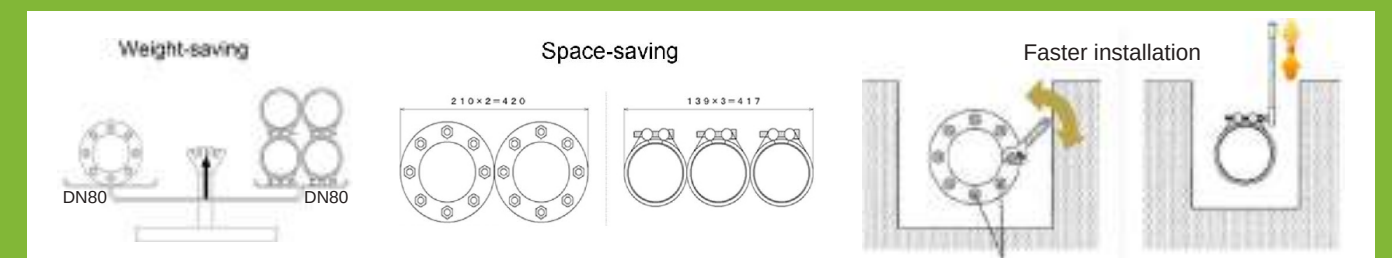
Progressive anchoring effect

Is easy on pipes, as pressure increases, so does the gripping effect



BENEFITS OF GRIP COUPLINGS

- Compatible with any traditional jointing system
- Joins pipes of the same or dissimilar materials
- Quick and simple repairs of damaged pipes without down time
- Stress-free, flexible pipe joint
- Compensates axial movement and angular deflection
- Pressure-resistant and leak-proof even with inaccurate pipe assembly
- Detachable and reusable
- Maintenance free and trouble free
- No time-consuming alignment and fitting work
- Easy installation technology
- Progressive sealing effect
- Progressive anchoring effect
- Corrosion resistant and temperature resistant
- Good resistant to chemicals
- Long service time
- Compact design for space-saving installation of pipes
- Light weight
- Friendly for confined space installation
- Easy installation, no fire or explosion hazard during installation
- No cost for protective measures
- Absorbs vibration / oscillations



GRIP Couplings are widely used in shipbuilding, water treatment, material processing, equipment manufacturing, and civil engineering.

Applications:

- Shipbuilding
- Oil & Gas
- Renewable energy
- Equipment accessory
- Water treatment
- Civil engineering
- Commercial construction
- Bulk material processing

CERTIFICATIONS



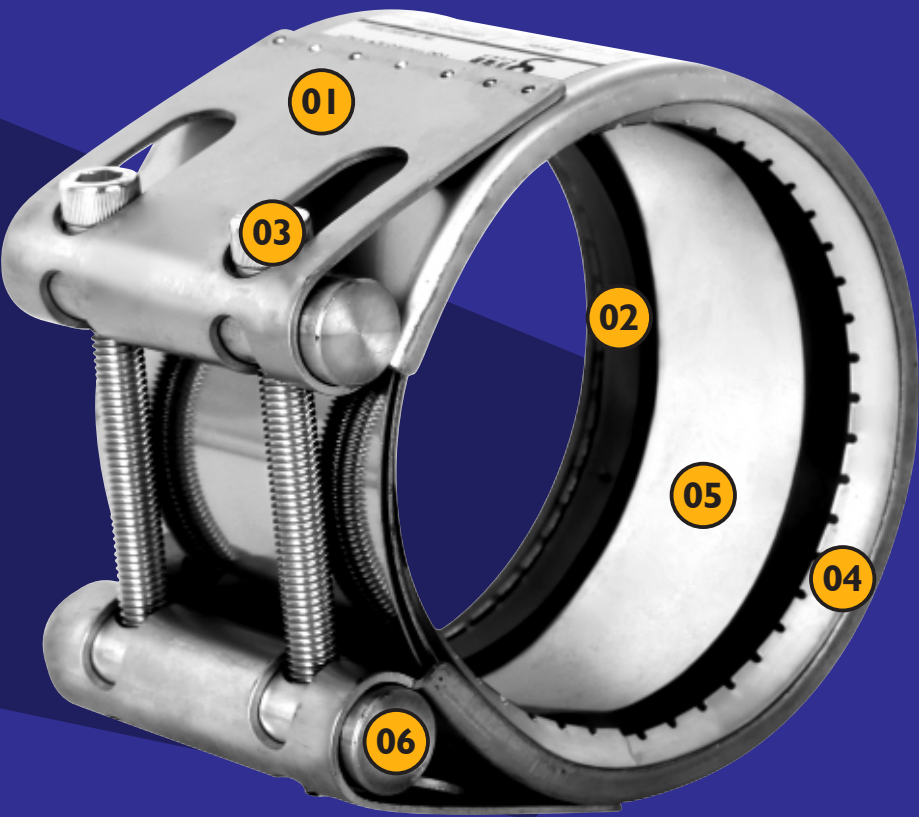
PRODUCT TESTING



All products are strictly tested before shipment to ensure reliable quality and best performances.

Grip Pipe Tech

PRODUCTS DETAILS



- 01 Casing
- 02 Sealing sleeve
- 03 Bolt
- 04 Anchoring ring
- 05 Strip insert
- 06 Bar

Components \ Material	V1	V2	V3	V4	V5	V6
Casing	AISI 304	AISI 316L	AISI 316TI	AISI 316L	AISI 316TI	AISI 304
Bolts	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	AISI 4135
Bars	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	AISI 4135
Anchoring ring	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301
Strip insert (optional)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301

Material of seal	Media	Temperature range
EPDM	All quality of waters, waste water, air, solids and chemical products	-30℃ up to +120℃
NBR	Water, gas, oil, fuel and other hydrocarbans	-30℃ up to +120℃
MVQ	High temperature liquid, oxygen, ozone, water and so on	-40℃ up to +280℃
FPM/FKM	Ozone, oxygen, acids, gas, oil and fuel (only with strip insert)	-40℃ up to +300℃

GRIP PRODUCTS

GRIP-G

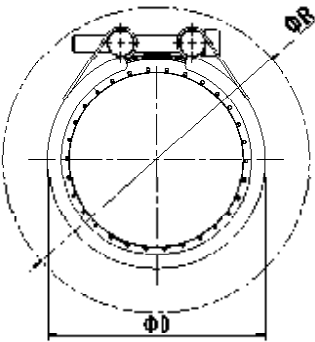
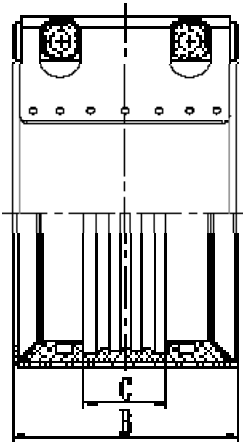
Axially Restrained With Double Anchoring Rings Coupling

The GRIP-G model coupling is designed to replace the need for flanging , welding, pipe grooving and pipe threading by providing a quick and easy solution to joining plain-end pipes.

The GRIP-G model have two anchor rings which are placed adjacent to, but separate from, the sealing mechanism.

Suitable for pipes O.D **φ21.3-φ609.6** mm

Outside view



Material \ Components	V1	V2	V3	V4	V5	V6
Casing	AISI 304	AISI 316L	AISI 316TI	AISI 316L	AISI 316TI	
Bolts	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Bars	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Anchoring ring	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	
Strip insert (optional)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	

Note:
1: Strip insert can be customized in AISI 316L/316TI
2: Please consult the BJ-GRIP technical department or its agents when what you need is beyond the range of normal specifications

GRIP PRODUCTS

GRIP-G

Pipe outer diameter	Clamping range	Working pressure	Product O.D.	Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt		
O.D.	Min-Max			Φ D	B	C	without strip insert	with strip insert (Max)			
(mm)	(In.)	(mm)	(bar)	(bar)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M	
21.3	10.838	20-22	18	46	39	61	26	5-8	10	8	M6×2
26.9	1.059	26-28	18	46	43	61	26	5-8	10	8	
30	1.181	29-31	18	46	46	61	26	5-8	10	8	
33.7	1.327	32-35	18	40	50	61	26	5-8	10	8	
38	1.496	37-39	18	35	57	61	26	5-8	10	10	
42.4	1.669	41-43	18	32	61.3	61	26	5-8	10	10	M8×2
44.5	1.752	44-45	18	32	63.4	61	26	5-8	10	10	
48.3	1.902	47-49	18	32	67.2	61	26	5-8	10	10	
54	2.126	53-55	18	32	73	76	37	5-10	15	10	
57	2.244	56-58	18	32	76	76	37	5-10	15	10	
60.3	2.374	59-61	18	32	79.2	76	37	5-10	15	10	M8×2
66.6	2.622	64-68	18	32	88.7	95	37	5-10	25	20	
70	2.756	68-71	18	32	92	95	41	5-10	25	20	
73	2.874	72-74	18	32	95	95	41	5-10	25	20	
76.1	2.996	75-77	18	32	98.2	95	41	5-10	25	20	
79.5	3.130	78-81	18	32	101.6	95	41	5-10	25	20	
84	3.307	83-85	18	32	106	95	41	5-10	25	20	
88.9	3.500	87-91	18	32	111	95	41	5-10	25	20	
100.6	3.961	99-102	16	32	123	95	41	5-10	25	30	
101.6	4.000	100-103	16	32	123.7	95	41	5-10	25	30	
104	4.094	103-105	16	32	126	95	41	5-10	25	30	M10×2
108	4.252	106-109	16	32	130	95	41	5-10	25	30	
114.3	4.500	113-116	16	30	136.4	95	41	5-10	25	30	
127	5.000	126-128	16	25	151	110	54	5-10	35	40	
129	5.079	128-130	16	25	153	110	54	5-15	35	40	
130.2	5.126	129-132	16	25	154.3	110	54	5-15	35	40	
133	5.236	131-135	16	25	157	110	54	5-15	35	40	
139.7	5.500	138-142	16	25	163.8	110	54	5-15	35	40	
141.3	5.563	140-143	16	25	165.4	110	54	5-15	35	40	
154	6.063	153-156	16	25	176.4	110	54	5-15	35	40	
159	6.260	158-161	16	25	183	110	54	5-15	35	40	M12X2
168.3	6.626	167-170	16	22	189	110	54	5-15	35	40	
193.7	7.626	192-196	10	22	215	142	80	15-20	40	60	
200	7.874	198-202	10	22	222	142	80	15-20	40	60	
204	8.031	202-206	10	22	224	142	80	15-20	40	60	
206	8.110	204-208	10	22	234	142	80	15-20	40	60	
219.1	8.626	216-222	10	22	250	142	80	15-20	40	80	
244.5	9.626	242-247	10	20	275	142	80	15-20	40	80	
250	9.843	247-253	10	20	279	142	80	15-20	40	80	
254	10.000	251-257	10	20	282	142	80	15-20	40	80	
256	10.079	253-259	10	20	284	142	80	15-20	40	80	
267	10.512	264-270	10	20	297	142	80	15-20	40	80	
273	10.748	270-276	10	20	303	142	80	15-20	40	80	

Note:
Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.

 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.

 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

Typing errors may occurs, technical details are subject to change as improvements of products.

GRIP PRODUCTS

GRIP-M

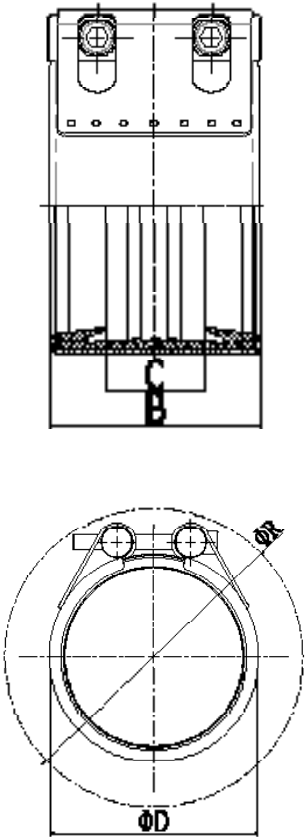
The multi-functional coupling connection and compensator in one

The Grip-M model have two thick sealing lips which allow for pipe expansion and contraction. This type of coupling not only connects pipes, it simultaneously compensates the axial movement, giving a significant added value to the coupling.

Suitable for pipes O.D **φ26.9-φ2032** mm



Outside view



Material	V1	V2	V3	V4	V5	V6
Components						
Casing	AISI 304	AISI 316L	AISI 316Ti	AISI 316L	AISI 316Ti	
Bolts	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Bars	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Anchoring ring						
Strip insert (optional)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	

Note:
1: Strip insert can be customized in AISI 316L/316Ti
2: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specifications.

GRIP PRODUCTS

GRIP-M

Pipe outer diameter	Clamping range	Working pressure		Product O.D.	Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt	
O.D.	Min-Max			Φ D	B	C	without strip insert	with strip insert (Max)			
(mm)	(In.)	(mm)	(bar)	(mm)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M	
26.9	1.059	26-28	25	40	38.9	61	26	5-8	10	8	M6×2
30	1.181	29-31	25	40	42	61	26	5-8	10	8	
33.7	1.327	32-35	25	40	45.7	61	26	5-8	10	8	
38	1.496	37-39	25	40	52	61	26	5-8	10	10	
42.4	1.669	41-43	25	40	56.4	61	26	5-8	10	10	
44.5	1.752	44-45	25	40	58.5	61	26	5-8	10	10	
48.3	1.902	47-50	25	40	62.3	61	26	5-8	10	10	
54	2.126	52-56	20	35	70	76	37	5-10	15	10	M8×2
57	2.244	55-59	20	35	73	76	37	5-10	15	10	
60.3	2.374	59-62	20	35	76.3	76	37	5-10	15	10	
66.6	2.622	64-68	20	40	82.6	95	37	5-10	25	20	
70	2.756	68-71	20	40	86	95	41	5-10	25	20	
73	2.874	71-75	20	40	89	95	41	5-10	25	20	
76.1	2.996	74-78	20	40	92.1	95	41	5-10	25	20	
79.5	3.130	78-80	20	40	95.5	95	41	5-10	25	20	
84	3.307	82-86	20	40	100	95	41	5-10	25	20	
88.9	3.500	87-91	20	40	104.9	95	41	5-10	25	20	
100.6	3.961	99-103	18	35	118.6	95	41	5-10	25	25	
101.6	4.000	100-104	18	35	119.6	95	41	5-10	25	25	
104	4.094	102-106	18	35	122	95	41	5-10	25	25	
108	4.252	103-107	18	35	126	95	41	5-10	25	25	
114.3	4.500	113-116	18	35	132.3	95	41	5-10	25	25	
127	5.000	126-128	18	40	149	110	54	5-10	35	25	M10×2
129	5.079	128-130	18	40	151	110	54	5-10	35	25	
130.2	5.126	129-132	18	40	152.2	110	54	5-10	35	25	
133	5.236	131-135	18	40	155	110	54	5-10	35	25	
139.7	5.500	138-142	18	40	161.7	110	54	5-10	35	25	
141.3	5.563	140-143	18	40	163.3	110	54	5-10	35	25	
154	6.063	153-156	18	35	176	110	54	5-10	35	25	
159	6.260	158-161	18	35	181	110	54	5-10	35	25	M12×2
168.3	6.626	167-170	18	35	190.3	110	54	5-10	35	25	
180	7.087	178-182	16	30	202	142	75	10-25	40	60	
200	7.874	198-202	16	30	222	142	75	10-25	40	60	
219.1	8.626	216-222	16	30	249.1	142	75	10-25	40	80	
250	9.843	247-253	16	25	280	142	75	10-25	40	80	
267	10.512	264-270	16	25	297	142	75	10-25	40	80	
273	10.748	270-276	16	25	303	142	75	10-25	40	80	
304	11.969	301-307	10	20	334	142	75	10-25	40	80	
323.9	12.752	321-327	10	20	353.9	142	75	10-25	40	80	
355.6	14.000	353-358	8.5	16	385.6	142	75	10-25	40	80	
377	14.843	375-379	8.5	16	407.0	142	75	10-25	40	80	
406.4	16.000	404-409	7.5	16	436.0	142	75	10-25	40	80	
457.2	18.000	454-460	6.5	12	487.0	142	75	10-25	40	80	

Note:
Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.

 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.

 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

Typing errors may occurs, technical details are subject to change as improvements of products.

GRIP PRODUCTS

GRIP-M

Pipe outer diameter	Clamping range	Working pressure		Product O.D.	Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt	
O.D.	Min-Max			Φ D	B	C	without strip insert	with strip insert (Max)			
(mm)	(In.)	(mm)	(bar)	(bar)	(mm)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M
508	20.000	505-511	6	10	538.0	142	73	10-25	40	80	M12×2
558.8	22.000	556-562	5.5	10	588.8	142	73	10-25	40	80	
609.6	24.000	606-613	5	10	639.6	142	73	10-25	40	100	
711.2	28.000	708-715	4	5	741.2	142	73	10-25	40	100	
762	30.000	758-766	4	5	792.0	142	73	10-25	40	100	
812.8	32.000	809-817	4	5	842.8	142	73	10-25	40	100	
914.4	36.000	910-918	4	5	944.4	142	73	10-25	40	100	
1016	40.000	1012-1020	4	5	1046.0	142	73	10-25	40	150	
1117.6	44.000	1114-1122	3.5	5	1147.6	142	73	10-25	40	150	
1219.2	48.000	1215-1224	3.5	5	1249.2	142	73	10-25	40	150	
1320.8	52.000	1316-1325	3	5	1350.8	142	73	10-25	40	150	
1422.4	56.000	1418-1427	3	5	1452.4	142	73	10-25	40	150	
1524	60.000	1519-1529	2.5	5	1554	142	73	10-25	40	150	
1600	62.992	1595-1605	2.5	5	1630	142	73	10-25	40	150	
1625.6	64.000	1621-1631	2.5	5	1655.6	142	73	10-25	40	150	
1727.2	68.000	1722-1732	2.5	5	1757.2	142	73	10-25	40	150	
1828.8	72.000	1824-1834	2	5	1858.8	142	73	10-25	40	150	
1930.4	76.000	1925-1936	2	5	1960.4	142	73	10-25	40	150	
2032	80.000	2027-2037	2	5	2062	142	73	10-25	40	150	

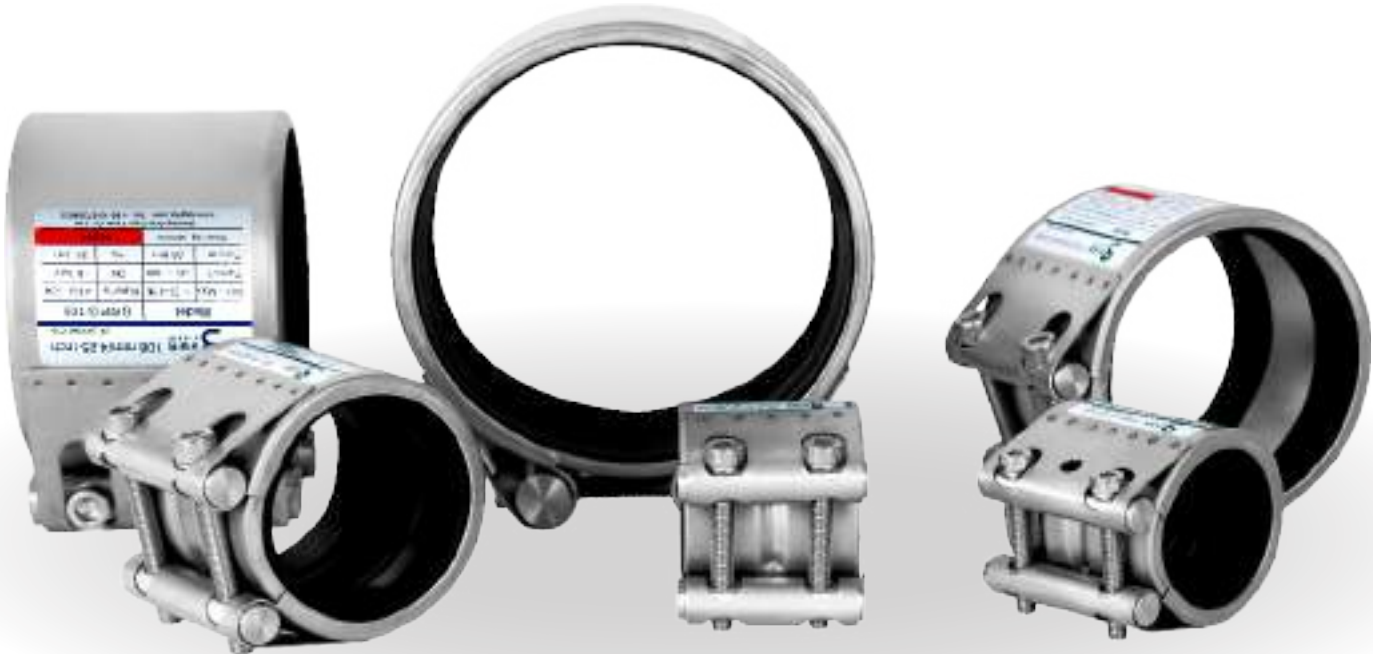
Note:
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 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

Typing errors may occurs, technical details are subject to change as improvements of products.



GRIP PRODUCTS

GRIP-GS

Customized narrow coupling.

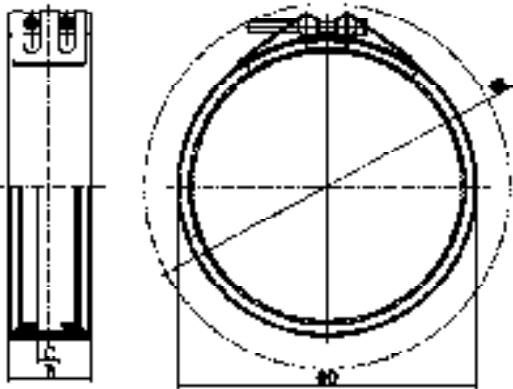
Axial pull-out resistant.

Suitable for narrow space.

Suitable for pipes O.D. $\phi 76.1\text{-}\phi 377$ mm



Outside view



Components	Material					
	V1	V2	V3	V4	V5	V6
Casing	AISI 304	AISI 316L	AISI 316TI	AISI 316L	AISI 316TI	
Bolts	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Bars	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Anchoring ring	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	
Strip insert (optional)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	

Note:
1: Strip insert can be customized in AISI 316L/316TI
2: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specification

GRIP PRODUCTS

GRIP-GS

Pipe outer diameter		Clamping range	Working pressure		Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt
O.D.							without strip insert	with strip insert (Max)		
(mm)	(In.)	(mm)	(bar)	(bar)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M
76.1	2.996	74-78	16	32	64	26	0-5	10	25	M8×2
79.5	3.130	78-80	16	32	64	26	0-5	10	25	
84	3.307	82-86	16	32	64	26	0-5	10	25	
88.9	3.500	87-91	16	32	64	26	0-5	10	25	
100.6	3.961	99-103	16	32	64	26	0-5	10	30	
101.6	4.000	100-104	16	32	64	26	0-5	10	30	
104	4.094	102-106	16	32	64	26	0-5	10	30	
108	4.252	103-107	16	32	64	26	0-5	10	30	
114.3	4.500	113-116	16	30	64	26	0-5	10	30	
127	5.000	126-128	8	25	64	26	0-5	10	30	M8×2
129	5.079	128-130	8	25	64	26	0-5	10	30	
130.2	5.126	129-132	8	20	64	26	0-5	10	30	
133	5.236	131-135	8	20	64	26	0-5	10	30	
139.7	5.500	138-142	8	20	64	26	0-5	10	30	
141.3	5.563	140-143	8	16	64	26	0-5	10	30	
154	6.063	153-156	8	16	64	26	0-5	10	30	
159	6.260	158-161	8	12	64	26	0-5	10	30	
168.3	6.626	167-170	8	12	64	26	0-5	10	30	
180	7.087	178-182	8	12	64	26	0-5	10	45	
200	7.874	198-202	8	12	64	26	0-5	10	45	
219.1	8.626	216-222	8	12	64	26	0-5	10	45	
250	9.843	247-253	8	12	64	26	0-5	10	45	
267	10.512	264-270	8	12	64	26	0-5	10	45	
273	10.748	270-276	8	12	64	26	0-5	10	45	
304	11.969	301-307	6	10	64	26	0-5	10	45	
323.9	12.752	321-327	6	10	64	26	0-5	10	45	
355.6	14.000	353-358	6	10	64	26	0-5	10	45	
377	14.843	375-379	6	10	64	26	0-5	10	45	

Note:
Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.

 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.

 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

Typing errors may occurs, technical details are subject to change as improvements of products.

GRIP PRODUCTS

GRIP-R

Repair Clamp Coupling

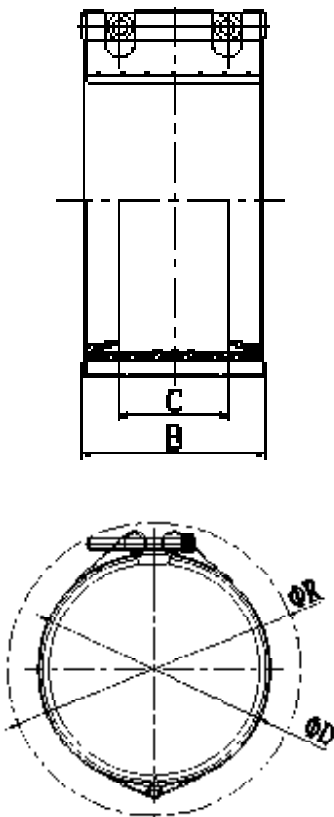
The Grip-R model coupling is ideal for all situations where you need to make a permanent repair under pressure.

Simply open up the coupling, wrap it around the pipe and fasten. You have repaired the pipeline such as pipe joints, cracks etc in minutes and avoided the need for costly downtime.

Suitable for pipes O.D **φ26.9-φ168.3** mm



Outside view



Material						
	V1	V2	V3	V4	V5	V6
Components						
Casing	AISI 304	AISI 316L	AISI 316Ti	AISI 316L	AISI 316Ti	
Bolts	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Bars	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Anchoring ring						
Strip insert (optional)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	

Note:
1: Strip insert can be customized in AISI 316L/316Ti
2: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specification

GRIP PRODUCTS

GRIP-R

Pipe outer diameter		Clamping range		Working pressure		Product O.D.	Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt
O.D.		Min-Max				Φ D	B	C	without strip insert	with strip insert (Max)		
(mm)	(In.)	(mm)	(bar)	(bar)		(mm)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M
26.9	1.059	26-28	25	40		38	57	30	5-8	10	8	M6×2
30	1.181	29-31	25	40		42	57	30	5-8	10	8	
33.7	1.327	32-35	25	40		45	57	30	5-8	10	8	
38	1.496	37-39	25	40		50.3	61	26	5-8	10	10	M8×1
42.4	1.669	41-43	25	40		54.7	61	26	5-8	10	10	
44.5	1.752	44-45	25	40		56.8	61	26	5-8	10	10	
48.3	1.902	47-50	25	40		64.2	61	26	5-8	10	10	M8×2
54	2.126	52-56	20	35		70	76	37	5-10	15	10	
57	2.244	55-59	20	35		73	76	37	5-10	15	10	
60.3	2.374	59-62	20	35		76.2	76	37	5-10	15	10	
66.6	2.622	64-68	20	40		85.5	95	37	5-10	25	20	
70	2.756	68-71	20	40		89	95	41	5-10	25	20	
73	2.874	71-75	20	40		92	95	41	5-10	25	20	M8×2
76.1	2.996	74-78	20	40		95.2	95	41	5-10	25	20	
79.5	3.130	78-80	20	40		98.5	95	41	5-10	25	20	
84	3.307	82-86	20	40		103	95	41	5-10	25	20	
88.9	3.500	87-92	20	40		108	95	41	5-10	25	20	
100.6	3.961	99-103	18	35		120	95	41	5-10	25	20	
101.6	4.000	100-104	18	35		120.7	95	41	5-10	25	20	M8×2
104	4.094	102-106	18	35		123	95	41	5-10	25	20	
104.8	4.126	103-107	18	35		124	95	41	5-10	25	20	
108	4.252	106-110	18	35		127	95	41	5-10	25	20	
114.3	4.500	112-116	18	35		133.4	95	54	5-10	25	20	
127	5.000	125-129	18	40		148	110	54	5-10	35	25	
129	5.079	127-131	18	40		150	110	54	5-10	35	25	M12×2
130.2	5.126	128-132	18	40		151.3	110	54	5-10	35	25	
133	5.236	131-135	18	40		154	110	54	5-10	35	25	
139.7	5.500	138-142	18	40		160.8	110	54	5-10	35	25	
141.3	5.563	139-143	18	35		162.4	110	54	5-10	35	25	
154	6.063	152-156	18	35		173.4	110	54	5-10	35	25	
159	6.260	157-161	18	35		180	110	54	5-10	35	25	
168.3	6.626	166-171	18	35		186	110	54	5-10	35	25	

Note:
Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.
 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.
 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.
Figures are based on typical values for standard wall carbon steel pipe.
Typing errors may occurs, technical details are subject to change as improvements of products.

GRIP PRODUCTS

GRIP-D

Double Lock Pipe Clamp (Pipe repair with a 2 lock active sealing system coupling)

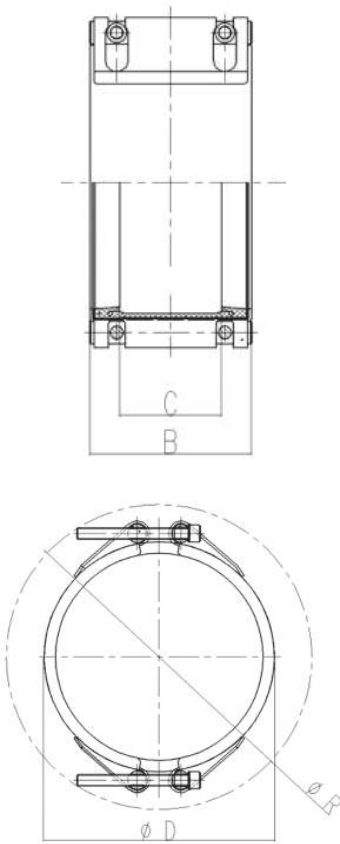
The Grip-D model can be fitted to exiting pipes insitu, without any need to remove or relay the pipes.

This makes it ideal solution for permanent repairs of pipe joints, cracks etc.

Suitable for pipes O.D **φ180-φ2032** mm



Outside view



Material	V1	V2	V3	V4	V5	V6
Components						
Casing	AISI 304	AISI 316L		AISI 316L	AISI 316TI	AISI 304
Bolts	AISI 304	AISI 316L		AISI 304	AISI 304	AISI 4135
Bars	AISI 304	AISI 316L		AISI 304	AISI 304	AISI 4135
Anchoring ring						
Strip insert (optional)	AISI 301	AISI 301		AISI 301	AISI 301	AISI 301

Note:
1: Bars can be customized in AISI12 L 14 galvanised
2: Strip insert can be customized in AISI 316L/316TI
3: Please consult the BJ-GRIP technical department or its Agents what you need is beyond the range of normal specification

GRIP PRODUCTS

GRIP-D

Pipe outer diameter	Clamping range	Working pressure		Product O.D.	Width		Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt
O.D.	Min-Max			Φ D	B		C	without strip insert	with strip insert (Max)		
(mm)	(In.)	(mm)	(bar)	(bar)	(mm)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M
180	7.087	178-182	16	30	204	142	250	73	10-25	40	60
200	7.874	198-202	16	30	224	142	250	73	10-25	40	60
219.1	8.626	216-222	16	30	251.1	142	250	73	10-25	40	60
250	9.843	247-253	16	25	282	142	250	73	10-25	40	80
267	10.512	264-270	16	25	299	142	250	73	10-25	40	80
273	10.748	270-276	16	25	305	142	250	73	10-25	40	80
304	11.969	301-307	10	20	336	142	250	73	10-25	40	80
323.9	12.752	320-327	10	20	355.9	142	250	73	10-25	40	80
355.6	14.000	352-359	8.5	16	387.6	142	250	73	10-25	40	80
377	14.843	375-379	8.5	16	409	142	250	73	10-25	40	80
406.4	16.000	402-411	7.5	16	438	142	250	73	10-25	40	80
457.2	18.000	452-462	6.5	12	489	142	250	73	10-25	40	80
508	20.000	503-513	6	10	540	142	250	73	10-25	40	100
558.8	22.000	554-564	5.5	10	590.8	142	250	73	10-25	40	100
609.6	24.000	605-615	5	10	641.6	142	250	73	10-25	40	100
711.2	28.000	708-715	4	5	743.2	142	250	73	10-25	40	100
762	30.000	758-766	4	5	794	142	250	73	10-25	40	100
812.8	32.000	809-817	4	5	844.8	142	250	73	10-25	40	100
914.4	36.000	910-918	4	5	946.4	142	250	73	10-25	40	100
1016	40.000	1012-1020	4	5	1048	142	250	73	10-25	40	150
1117.6	44.000	1113-1122	3.5	5	1149.6	142	250	73	10-25	40	150
1219.2	48.000	1215-1224	3.5	5	1251.2	142	250	73	10-25	40	150
1320.8	52.000	1316-1325	3	5	1352.8	142	250	73	10-25	40	150
1422.4	56.000	1418-1427	3	5	1454.4	142	250	73	10-25	40	150
1524	60.000	1519-1529	2.5	5	1556	142	250	73	10-25	40	150
1625.6	64.000	1621-1631	2.5	5	1657.6	142	250	73	10-25	40	150
1727.2	68.000	1722-1732	2.5	5	1759.2	142	250	73	10-25	40	150
1828.8	72.000	1824-1834	2	5	1860.8	142	250	73	10-25	40	150
1930.4	76.000	1925-1935	2	5	1962.4	142	250	73	10-25	40	150
2032	80.000	2027-2037	2	5	2064	142	250	73	10-25	40	150

Note:
Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.
 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.
 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.
Figures are based on typical values for standard wall carbon steel pipe.
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GRIP PRODUCTS

GRIP-Z

Reinforced Axially Restrained Coupling

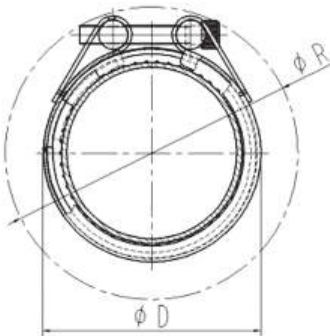
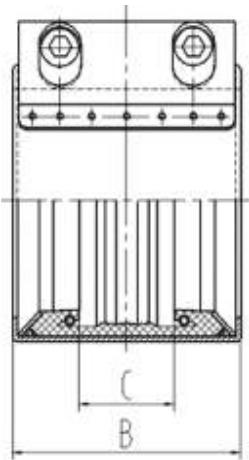
The GRIP-Z model is a standard axially restrained coupling with reinforced internal structure so that can bear higher pressure.

The double anchoring rings can bite into the two pipes to prevent them from pulling apart.

Suitable for pipes O.D **φ30-φ168.3** mm



Outside view



Material	V1	V2	V3	V4	V5	V6
Components						
Casing	AISI 304	AISI 316L	AISI 316Ti			AISI 304
Bolts	AISI 316L	AISI 316L	AISI 316L			AISI 4135
Bars	AISI 316L	AISI 316L	AISI 316L			AISI 4135
Anchoring ring	AISI 301	AISI 301	AISI 301			AISI 301
Strip insert (optional)	AISI 301	AISI 301	AISI 301			AISI 301

Note:

1: Bars can be customized in AISI12 L 14 galvanised

2: Strip insert can be customized in AISI 316L/316Ti

3: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specification

GRIP PRODUCTS

GRIP-Z

Pipe outer diameter	Clamping range	Working pressure		Product O.D.	Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt	
O.D.	Min-Max			Φ D	B	C	without strip insert	with strip insert (Max)			
(mm)	(In.)	(mm)	(bar)	(mm)	(mm)	(mm)	(mm)	Max (mm)			
30	1.181	29-31	32	64	47.5	61	17	3-5	10	15	M8×2
33.7	1.327	32-35	32	64	51.5	61	17	3-5	10	15	
38	1.496	37-39	32	64	58.5	61	17	3-5	10	20	
42.4	1.669	41-43	32	64	62.8	61	17	3-5	10	20	M8×2
44.5	1.752	44-45	32	64	64.9	61	17	3-5	10	20	
48.3	1.902	47-49	32	64	68.7	61	17	3-5	10	20	
54	2.126	53-55	30	64	74.5	76	33	5-10	15	20	M8×2
57	2.244	56-58	30	64	77.5	76	33	5-10	15	20	
60.3	2.374	59-61	30	64	80.7	76	33	5-10	15	20	
66.6	2.622	64-68	30	64	90.7	96	37	5-10	25	35	M10×2
70	2.756	68-71	25	64	94	96	37	5-10	25	35	
73	2.874	72-74	25	64	97	96	37	5-10	25	35	
76.1	2.996	75-77	25	64	100.2	96	37	5-10	25	35	
79.5	3.130	78-81	25	64	103.6	96	37	5-10	25	35	
84	3.307	83-85	25	64	108	96	37	5-10	25	35	
88.9	3.500	88-90	25	64	113	96	37	5-10	25	35	
100.6	3.961	99-102	22	60	125	96	37	5-10	25	35	M12×2
101.6	4.000	100-103	22	60	125.7	96	37	5-10	25	35	
104	4.094	103-105	22	60	128	96	37	5-10	25	35	
108	4.252	106-109	22	60	132	96	37	5-10	25	35	
114.3	4.500	113-116	22	50	138.4	96	37	5-10	25	35	
127	5.000	126-128	22	50	153.5	111	54	5-10	35	40	
129	5.079	128-130	22	50	155.5	111	54	5-10	35	40	
130.2	5.126	129-132	22	50	156.8	111	54	5-10	35	40	M12×2
133	5.236	131-135	22	50	159.5	111	54	5-10	35	40	
139.7	5.500	138-142	22	50	166.3	111	54	5-10	35	40	
141.3	5.563	140-143	22	50	167.9	111	54	5-10	35	40	
154	6.063	153-156	22	50	178.9	111	54	5-10	35	40	
159	6.260	158-161	22	50	185.5	111	54	5-10	35	40	
168.3	6.626	167-170	22	50	191.5	111	54	5-10	35	50	

Note:

Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.

 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.

 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

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GRIP PRODUCTS

GRIP-GF

Fireproof Coupling

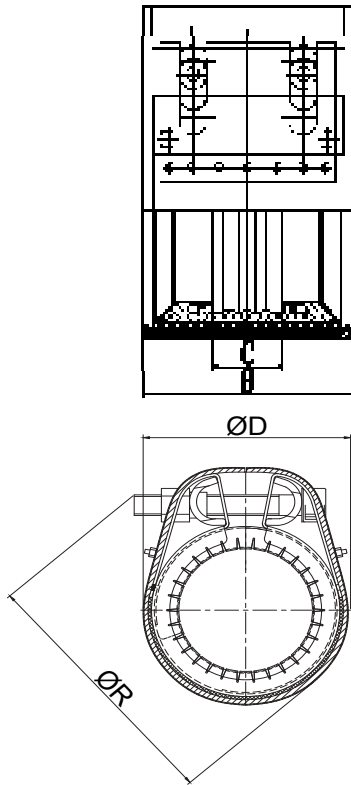
The Grip-GF model combines with functional design with the latest technologies.

The GRIP-GF is based on the proven coupling technology, which has been developed for the shipbuilding industry, also is successfully used for tunneling, fire hose applications etc. In the circumstance of a fire, GRIP-GF coupling protectively enclosing the coupling. During this process, the coupling retains its full operational capability without any damage.

Suitable for pipes O.D **φ21.3-φ609.6** mm

The GRIP-GF represents the ultimate in high security fire protected mechanical pipe couplings.

Outside view



Material						
	V1	V2	V3	V4	V5	V6
Components						
Casing	AISI 304	AISI 316L	AISI 316Ti	AISI 316L	AISI 316Ti	
Bolts	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Bars	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	
Anchoring ring	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	
Strip insert (optional)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	

Note:

1: Strip insert can be customized in AISI 316L/316Ti

2: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specification

GRIP PRODUCTS

GRIP-GF

Pipe outer diameter	Clamping range	Working pressure		Product O.D.	Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt	
O.D.	Min-Max			Φ D	B	C	without strip insert	with strip insert (Max)			
(mm)	(In.)	(mm)	(bar)	(mm)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M	
21.3	0.838	20-23	18	46	52	56	18	5-8	10	8	M6×1
25	0.980	24-26	18	46	56	71	25	5-8	10	8	
26.9	1.059	26-28	18	46	58	71	25	5-8	10	8	M6×2
30	1.181	29-31	18	46	61	71	25	5-8	10	8	
33.7	1.327	32-35	18	40	65	71	25	5-8	10	8	
38	1.496	37-39	18	35	73	71	25	5-8	10	10	
42.4	1.669	41-43	18	32	77	71	25	5-8	10	10	M8×2
44.5	1.752	44-45	18	32	80	71	25	5-8	10	10	
48.3	1.902	47-49	18	32	83	71	25	5-8	10	10	
54	2.126	53-55	18	32	90	86	37	5-10	15	10	
57	2.244	56-58	18	32	93	86	37	5-10	15	10	
60.3	2.374	59-61	18	32	96	86	37	5-10	15	10	
66.6	2.622	64-68	18	32	105	105	41	5-10	25	20	M8×2
70	2.756	68-71	18	32	108	105	41	5-10	25	20	
73	2.874	72-74	18	32	111	105	41	5-10	25	20	
76.1	2.996	75-77	18	32	114	105	41	5-10	25	20	
79.5	3.130	78-81	18	32	118	105	41	5-10	25	20	
84	3.307	83-85	18	32	122	105	41	5-10	25	20	
88.9	3.500	87-91	18	32	127	105	41	5-10	25	20	
100.6	3.961	99-102	16	32	139	105	41	5-10	25	30	
101.6	4.000	100-103	16	32	140	105	41	5-10	25	30	
104	4.094	103-105	16	32	142	105	41	5-10	25	30	
108	4.252	106-109	16	32	146	105	41	5-10	25	30	
114.3	4.500	113-116	16	32	152	105	41	5-10	25	30	
127	5.000	126-128	16	25	171	120	54	5-15	35	40	M10×2
129	5.079	128-130	16	25	173	120	54	5-15	35	40	
130.2	5.126	129-132	16	25	174	120	54	5-15	35	40	
133	5.236	131-135	16	25	177	120	54	5-15	35	40	
139.7	5.500	138-142	16	25	184	120	54	5-15	35	40	
141.3	5.563	140-143	16	25	185	120	54	5-15	35	40	
154	6.063	153-156	16	25	198	120	54	5-15	35	40	
159	6.260	158-161	16	25	203	120	54	5-15	35	40	
168.3	6.626	167-170	16	25	212	120	54	5-15	35	40	
193.7	7.626	192-196	10	22	243	152	60	15-20	40	60	
200	7.874	198-202	10	22	249	152	60	15-20	40	60	
204	8.031	202-206	10	22	253	152	60	15-20	40	60	
206	8.110	204-208	10	22	255	152	76	15-20	40	60	
219.1	8.626	216-222	10	22	268	152	76	15-20	40	80	M12×2
244.5	9.626	242-247	10	22	294	152	60	15-20	40	80	
250	9.843	247-253	10	22	299	152	60	15-20	40	80	
254	10.000	251-257	10	22	303	152	60	15-20	40	80	
256	10.079	253-259	10	22	305	152	60	15-20	40	80	
267	10.512	264-270	10	22	316	152	76	15-20	40	80	
273	10.748	270-276	10	20	322	152	76	15-20	40	80	

Note:

Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.

Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.

Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

Typing errors may occurs, technical details are subject to change as improvements of products.

GRIP PRODUCTS

GRIP-LM

Harness Restraint Coupling

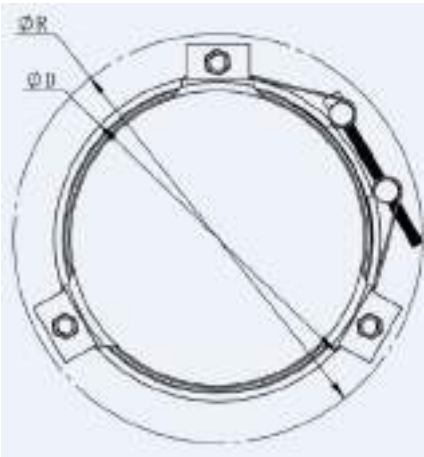
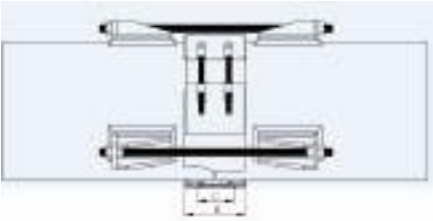
The GRIP-LM model pipe coupling including three restraint harness rods which can effectively reduce the axial pull strength of pipes. The perfect combination of harness rods and coupling greatly lessen vibration, lower noise as well as provide ideal compensation. Easy and quick installation make GRIP -LM a reliable choice for you.

Suitable for pipes O.D **φ180-φ762** mm

GRIP-LM only can be used on metal pipes.



Outside view



Material						
	V1	V2	V3	V4	V5	V6
Components						
Casing	AISI 304	AISI 316L	AISI 316TI	AISI 316L	AISI 316TI	AISI 304
Bolts	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	AISI 4135
Bars	AISI 304	AISI 316L	AISI 316L	AISI 304	AISI 304	AISI 4135
Anchoring ring						
Strip insert (optional)	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	

Note:
 1: Bars can be customized in AISI12 L 14 galvanised
 2: Strip insert can be customized in AISI 316L/316TI
 3: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specification

GRIP PRODUCTS

GRIP-LM

Pipe outer diameter	Clamping range	Working pressure		Product O.D.	Width	Distance between sealing lips	Setting gap between pipe ends		Torque rate	Bolt
O.D.	Min-Max			Φ D	B	C	without strip insert	with strip insert (Max)		
(mm)	(In.)	(mm)	(bar)	(bar)	(mm)	(mm)	(mm)	Max (mm)	(Nm)	M
180	7.087	166-171	16	30	202	142	75	10-25	40	60
200	7.874	198-202	16	30	222	142	75	10-25	40	60
219.1	8.626	216-222	16	30	249.1	142	75	10-25	40	80
250	9.843	247-253	16	25	280	142	75	10-25	40	80
267	10.512	264-270	16	25	297	142	75	10-25	40	80
273	10.748	270-276	16	25	303	142	75	10-25	40	80
304	11.969	301-307	10	20	334	142	75	10-25	40	80
323.9	12.752	320-327	10	20	353	142	75	10-25	40	80
355.6	14.000	352-359	8.5	16	385.6	142	75	10-25	40	80
377	14.843	375-379	8.5	16	407	142	75	10-25	40	80
406.4	16.000	402-411	7.5	16	436	142	75	10-25	40	80
457.2	18.000	452-462	6.5	16	487	142	75	10-25	40	80
508	20.000	503-513	6	12	538	142	75	10-25	40	80
558.8	22.000	554-564	5.5	10	588.8	142	75	10-25	40	80
609.6	24.000	605-615	5	10	639.6	142	75	10-25	40	100
711.2	28.000	708-715	4	5	741.2	142	75	10-25	40	100
762	30.000	758-766	4	5	792	142	75	10-25	40	100

Note:
 Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.
 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.
 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.
 Figures are based on typical values for standard wall carbon steel pipe.
 Typing erros may occurs, technical details are subject to change as improvements of products.

GRIP PRODUCTS

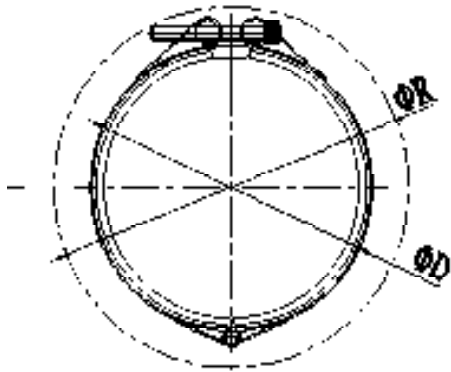
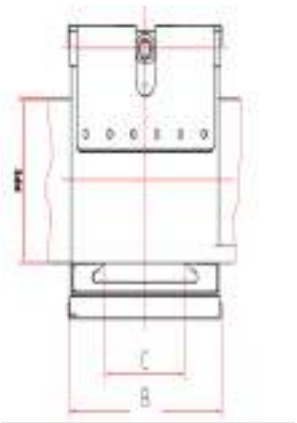
GRIP-RS & DS

Elbow Repair Clamp

Elbow repair clamps mainly repair the leak at the part of pipe elbow and root of flange, caused by sand hole, welds, fluid impact, and others to reach fast and permanent repair. It is suitable for pipes from O.D **φ21.3-φ508** mm.



Outside view



Compenents	Material	V1	V2	V3	V4	V5	V6
Casing		AISI 304	AISI 316L	AISI 316TI	AISI 316L	AISI 316TI	AISI 304
Bolts		AISI 304	AISI 316	AISI 316	AISI 304	AISI 304	12.9
Bars		AISI 304	AISI 316	AISI 316	AISI 304	AISI 304	AISI 1213
Anchoring ring							
Strip insert (optional)		AISI 301	AISI 301	AISI 301	AISI 301	AISI 301	AISI 301

Note:
1: Strip insert can be customized in AISI 301/304/316L/316TI
2: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specification

GRIP PRODUCTS

GRIP-RS & DS

Pipe outer diameter	Clamping range	Working pressure	Product O.D.	Width	Distance between sealing lips	Torque rate	Bolt
O.D.	Min-Max		Φ D	B	C		
(mm)	(mm)	(bar)	(mm)	(mm)	(mm)	(Nm)	M
21.3	20-22	25	32	28	14	8	M6×1
26.9	26-28	25	38	28	14	8	
30	29-31	25	42	28	14	8	
33.7	32-35	25	45	28	14	8	
38	37-39	25	50	28	14	10	M8×1
42.4	41-43	25	55	28	14	10	
44.5	44-45	25	57	28	14	10	
48.3	47-50	25	64	28	14	10	
54	52-56	20	70	28	14	10	
57	55-59	20	73	28	14	10	
60.3	59-62	20	76	28	14	10	
63	62-64	20	79	28	14	10	
66.6	64-68	20	86	53	28	20	M10×1
70	68-71	20	89	53	28	20	
73	71-75	20	92	53	28	20	
76.1	74-78	20	95	53	28	20	
79.5	78-80	20	99	53	28	20	
84	82-86	20	103	53	28	20	
88.9	87-91	20	108	53	28	20	
100.6	99-103	18	120	53	28	20	
101.6	100-104	18	121	53	28	20	
104	102-106	18	123	53	28	20	
104.8	103-107	18	124	53	28	20	
108	106-110	18	127	53	28	20	
114.3	112-116	18	133	53	28	20	M12×1
127	125-129	18	148	53	28	25	
129	127-131	18	150	53	28	25	
130.2	128-132	18	151	53	28	25	
133	131-135	18	154	53	28	25	
139.7	138-142	18	161	53	28	25	
141.3	139-143	18	162	53	28	25	
154	152-156	18	173	53	28	25	
159	157-161	18	180	53	28	25	
168.3	166-171	18	186	53	28	25	
180	178-182	14	204	53	28	25	
200	198-202	14	224	53	28	25	
219.1	216-222	14	251	53	28	25	
250	247-253	14	282	53	28	25	
267	264-270	14	299	53	28	25	
273	270-276	14	305	53	28	25	
304	301-307	12	336	53	28	25	
323.9	320-327	12	356	53	28	25	
355.6	352-359	10	388	53	28	25	
377	375-379	10	409	53	28	25	
406.4	402-411	10	438	53	28	25	
457.2	452-462	10	489	53	28	25	
508	503-513	10	540	53	28	25	

Note:
Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.
Figures are based on typical values for standard wall carbon steel pipe.
Typing erros may occurs, technical details are subject to change as improvements of products.

GRIP PRODUCTS

GRIP-GT

Axially restrained coupling with copper ring

The GRIP-GT model is ideal for various non-metal pipes axially restrained connection. Unique threaded copper anchoring ring design enable the coupling connect the pipes properly without slight scratch or damage. The coupling connects the pipe evenly. Suitable for pipes O.D $\phi 26.9$ - $\phi 200.0$ mm



GRIP PRODUCTS

GRIP-GTG

Axially restrained coupling for metal and non-metal pipes connection

The GRIP-GTG model is a perfect solution for pipes with different materials typically as metal and non-metal ones. Suitable for pipes O.D $\phi 26.9$ - $\phi 200.0$ mm



GRIP PRODUCTS

GRIP-RT

Double Lock Pipe Coupling with Side Outlet

The GRIP-RT combines all the advantages of GRIP coupling technologies, with the added benefit of a side outlet. A simple, low-cost solution for a wide range of applications, including venting, sample-taking, measurement points and system extensions. Suitable for pipes O.D $\phi 26.9$ - $\phi 203.2$ mm. GRIP-RT can be customized according to customers requests. Applicable for below models: GRIP-G, GRIP-M, GRIP-R, GRIP-D, GRIP-Z, GRIP-GT, GRIP-GTG



INSTALLATION STEPS & ACCESSORY



01

Step 1: Deburr and remove the ash, dust and sundry, Keep the two pipe ends cut surface smooth.



02

Step 2: Find the assembly line, and mark the location of the insert connector.



03

Step 3: Put the coupling on and keep it.



04

Step 4: put the other pipe in the coupling and ensure the coupling in mark position. coupling in mark position.



05

Step 5: Tightening the two bolts alternately with specified torque wrench



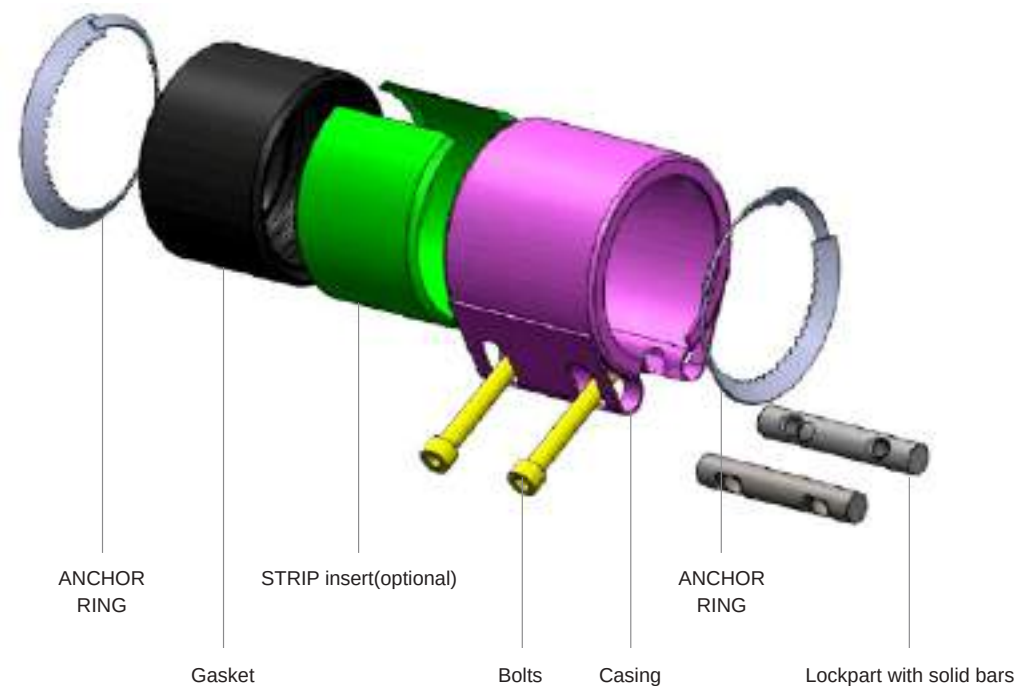
06

Step 6: Finished

INSTALLATION GUIDE

Handling of GRIP couplings

- Do not drop the coupling
- Keep the coupling clean- leave it in its packaging until you are ready to use it
- Do not dismantle the coupling
- Check the coupling for completeness: check the anchor rings are present on both sides if you are using axially resistant couplings and if you have requested a vacuum ring, please check that it is in place



Installation tool: Torque Wrench(Not included in the product)

To ensure successful installation, a torque wrench must be used. Please select proper wrench for each types as indicated on the label.

The coupling do not require an maintenance and must not be tightened once the torque has been reached. We recommend you mark the coupling once the screws have been torqued up. This will ensure that you and others know that the screws have been tightened.

If you are unsure as to whether the screws have already been tightened, loosen the screws completely and repeat the installation from scratch.



PIPELINE COMPENSATORS

Flexible compensators



GRIP-FR1
Flexible Rubber Joint



GRIP-FR2
Flexible Rubber Joint



GRIP-CEC
SS bellows expansion joint



GRIP-DC
SS Dismantling connector



GRIP-SC
Spherical Compensator



GRIP-FA
SS Flexible Adapter

Band Repair Clamp



GRIP-S1 Band Repair Clamp



GRIP-S2 SS Band Repair Clamp



GRIP-S Economic Coupling