



PIPE FITTINGS

For Joint, Distributor Water
in DI, HDPE, STEEL, AC Pipe System



HUIHUA VALVE INDUSTRY CO.

<http://www.hiwaflow.com>



HIWA Tech(Shandong) Co.Ltd. is a large-scale professional foundry, lies in Huimin District Binzhou City, Shandong Province, which was invested by HIWA Group. It is also the most important investment enterprises for Huimin District. The total investment more than 120 million yuan.

HIWA Tech(Shandong) Co.Ltd. has more than 68000M2 modern production plant, it is an very big enterprise for production of ductile iron castings and finished products of ductile iron, gray cast iron, carbon steel, precision stainless steel & kinds of iron fittings. Fowry foundry include 4 modern casting line, total workers more than 300, professional technical engineers more than 50, the factory include modern lost wax casting workshop, resin sand workshop, molding workshop, casting workshop, machining workshop, assembly workshop etc.

HIWA owns new Mixer using mixed clay green sand. The modeling hosts are all controlled by modern microcomputers. The hourly output of vertical modeling casting machine is 240 boxes, sand processing system uses Siemens PLC programming control and touch screen operation, the main components of Mixer are all produced from the most advanced materials. The accurate metering equipment and dosing technology make the percent of pass rate is over 90%. The company could expertly execute national standard GB, international standard of ASTM, AISI, DIN, NF, JIS, BS, AS, AAR etc.

HIWA has not only leading production facilities and production equipment in the industry, but also the most advanced testing equipment: spectrum analyzer, metalloscope, tensile testing machine, low temperature impact testing machine, X-ray detection machine, magnetic defect detector, ultrasonic detectors, three coordinates measuring instrument. The above equipments ensure that high-precision castings and finished products are supplied to customers, meantime ensure to meet the customers' inspection requirements of physical and chemical properties of the material, non-destructive testing, high-precision geometry dimension test etc.

HIWA abandons the traditional concepts that foundry only provides the rough pieces and creates new conceptions of supplying solutions, terminal castings and customer services, in order to maximize the added value. The company is based on the high-grade and high-end market. The products is in addition to be supplied to the domestic market, mainly exported to abroad. Like the United States, Germany, Japan, Spain, Italy, the United Kingdom, France, Netherlands, Australia, Canada etc. more than 30 countries. 10 of the cooperators are fortune 500 companies and Fowry have become their important supplier in China.



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HIWA Principle

- Communication
- Cooperation
- Mutual Benefits.



HIWA Advantages

- The Perfect Quality Management System
- Excellent Software and Hardware Technical Support
- Strong Casting Capacity
- Excellent Processing Equipment
- Strict Quality Control System
- Perfect After Sales Service



HIWA Objective

- The first class management
- The first class team
- The first class quality
- The first class services



Universal

Uni-Fit

Coupling & Flange Adaptor

For Ductile Iron, Steel & PVC Pipes



Uni-Fit Coupling & Flange Adaptor

hiwa

HIWA Uni-Fit pipe fittings are designed to accommodate plain ended pipes with different outside diameters. Thus reduces the need for stockholding, as one single coupling is able to connect different pipes materials such as ductile iron, steel, PVC, AC and others.

◆ Perfect Sealing Gasket

- The sealing gasket with good circumferential ribs which provides a easy slide fits for maximum sealing even on pitted, scored or corroded pipes.

◆ Excellent Coating Protection

- The normal painting for universal fittings is RAL5017 fusion bond epoxy coated powder which with good anticorrosion characteristic, and the bolts and nuts are Dacromet, which with good anticorrosion, thermostability characteristic than Zinc Plated.

◆ Easy to Install

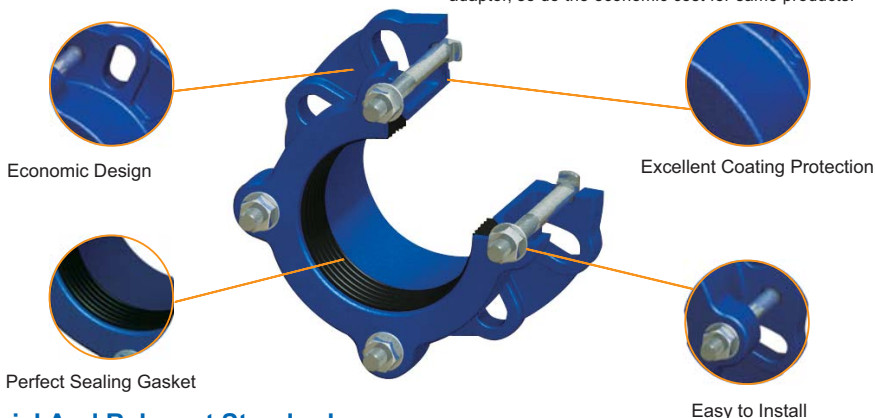
- The Uni-Fit range is supplied with carriage bolts, only need a torque wrench, from one end to tightened the nuts to finish the installation, simple and save time.

◆ Simple to Fit

- Available as standard and long sleeve versions, the Uni-Fit range allowing for greater cutting tolerances and a greater pipe insertion depth which simplifies the installation.

◆ Economic Design

- Such concave design can reduce the weight of the flange adaptor, so do the economic cost for same products.



Material And Relevant Standards: Coupling

◆ Centre Sleeve & End Rings

- Ductile Iron to BS EN-GJS-500-7

◆ Gaskets

◆ Standard

- EPDM to BS EN681-1
- NBR TO BS EN682

◆ Tee Bolts/Bolts

- Standard: Steel to BS EN ISO 898-1 Class4.8
- Other material available for request.

◆ Nuts/Washers

- Nuts: Steel to BS EN ISO 898-2 .
- Other material available for request.

◆ Washers

- Decromet Coated Steel

◆ Coatings

- Blue FBE coated to RAL5017
- Option: Rilsan Nylon 11.

Flange Adaptor

◆ Flanged Adaptor Body & End Rings

- Ductile Iron to BS EN-GJS-500-7

◆ Gaskets

◆ Standard

- EPDM TO BS EN681-1
- NBR TO BS EN682

◆ Tee Bolts/Bolts

- Standard: Steel to BS EN ISO 898-1 Class4.8
- Other material available for request.

◆ Nuts/Washers

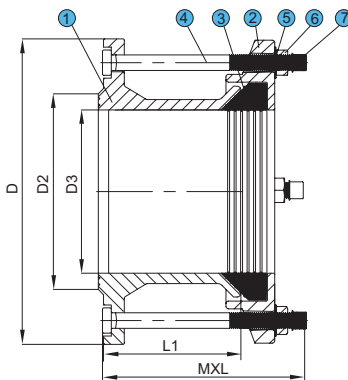
- Nuts: Steel to BS EN ISO 898-2 .
- Other material available for request.

◆ Washers

- Decromet Coated Steel

◆ Coatings

- Blue FBE coated to RAL5017
- Option: Rilsan Nylon 11.



◆ Material Specification:

Item No.	Item Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.
- Angular deflection +/- 3°.

◆ Dimensions(mm)

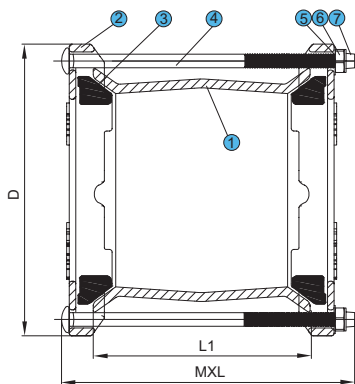
Size	Pipe OD(mm)	D	D2	D3	L1	MXL	Bolt No.	Weight(kg)	Flange Designation			
									PN10/PN16	ANSI 125/150	Table D	Table E
DN40	48-60	150	84	64	82	M12X125	2	3.2	•	•	•	•
DN50	59-72	165	99	77	82	M12X125	2	3.3	•	•	•	•
DN65	72-85	185	108	90	82	M12X125	2	3.8	•	•	•	•
DN80	88-103	200	132	108	82	M12X125	4	4.9	•	•	•	•
DN100	109-128	220	156	133	82	M12X125	4	5.4	•	•	•	•
DN125	132-153	250	184	158	82	M12X140	4	7.0	•	•		•
DN150	159-182	285	211	187	82	M12X140	4	7.4	•	•		•
DN175	192-210	340	266	215	82	M12X140	4	10.8	•	•		•
DN200	218-235	340	266	241	82	M12X140	4	10.2	•	•		•
DN225	242-267	405	319	272	82	M12X140	4	14.9	•	•		
DN250	272-289	405	319	295	90	M12X140	6	13.8	•	•		
DN300	315-332	460	370	338	90	M12X150	6	18.6	•	•		
DN300	322-339	460	370	345	90	M12X150	6	18.7	•			•
DN350	351-378	520	425	382	115	MUX 180	8	31.1	•			
DN350	374-391	520	425	393	115	M14X180	8	35.9	•			
DN400	400-429	580	477	432	115	M14X180	8	36.9	•			
DN400	425-442	580	477	444	115	M14X180	8	36.4	•			
DN450	476-493	640	550	498	115	M14X180	10	41.5	•			
DN500	527-544	715	585	548	115	M14X180	10	53.5	•			
DN600	630-647	840	682	650	115	M14X180	10	69.9	•			

Hiwa product specification in this catalogue for reference only, the product construction subject to Hiwa's design. Hiwa reserve the right to change the design, construction, specification without prior notice and without incurring any obligation. Any definite information kindly contact with Hiwa directly.

Universal Coupling



Fig.FC10



◆ Features

- Mild Steel S235JR with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals.
- High Tolerance Mechanical Pipe Fittings.
- Angular deflection +/- 6°.

◆ Dimensions(mm)

Size	Pipe OD(mm)	D	L1		Bolt No.-MXL		Weight (kg)	
			S	L	S	L	S	L
DN40	48-60	155	95	190	2-M12X170	2-M12X260	2.3	2.8
DN50	59-72	165	95	190	2-M12X170	2-M12X260	2.4	2.8
DN65	72-85	180	95	190	2-M12X170	2-M12X260	2.7	3.2
DN80	88-103	185	95	190	4-M12X180	4-M12X280	3.7	4.5
DN100	109-128	225	95	190	4-M12X180	4-M12X280	4.3	5.2
DN125	132-153	250	95	190	4-M12X180	4-M12X280	5.8	7.0
DN150	159-182	275	110	190	4-M 12X210	4-M12X280	6.4	7.5
DN175	192-210	305	130	190	4-M 12X220	4-M12X280	7.7	8.7
DN200	218-235	315	130	190	4-M 12X220	4-M12X280	9.4	10.8
DN225	242-267	350	130	245	4-M 12X220	4-M12X350	12.3	15.4
DN250	272-289	395	130	245	6-M 12X220	6-M12X350	13.3	16.8
DN300	315-332	450	130	245	6-M 12X220	6-M12X350	16.2	20.2
DN300	322-339	460	130	245	6-M 12X220	6-M12X350	16.3	20.3
DN350	351-378	510	130	245	8-M 14X235	8-M14X350	23.7	28.3
DN350	374-391	520	130	245	8-M 14X235	8-M14X350	27.3	34.6
DN400	398-429	550	130	245	8-M 14X235	8-M14X350	28.8	37.2
DN400	425-442	565	130	245	8-M 14X235	8-M14X350	29.1	37.1
DN450	476-493	615	130	245	10-M14X235	10-M14X350	33.1	42.2
DN500	527-544	665	130	245	10-M14X235	10-M14X350	39.3	49.4
DN600	630-647	770	130	245	10-M14X235	10-M14X350	47.6	60.0

*S: Standard Sleeve L: Long Sleeve

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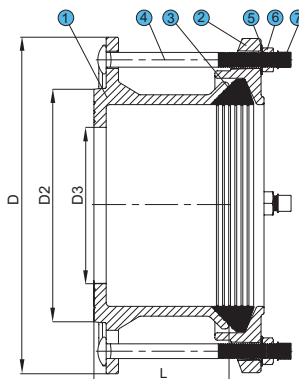


◆ Material Specification:

Item No.	Item Name	Material	Specification
1	Center Sleeve	Carbon Steel	S235JR
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

Fig.FA10-A



◆ Material Specification:

Item No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.
- Angular deflection +/- 3°.

◆ Dimensions(mm)

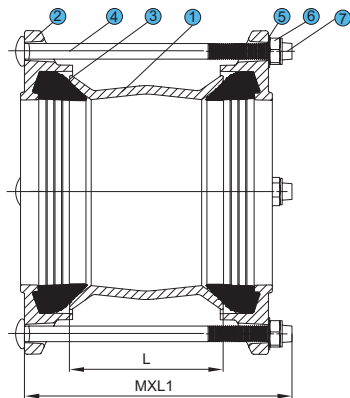
Size	Pipe OD(mm)	D	D2	D3	L	MXL1	Bolt No.	Weight(kg)	Flange Designation			
									PN10/PN16	ANSI 125/150	Table D	Table E
DN50	58-74	166	110	50	100	M12X150	4	4.2	•	•	•	•
DN60	68-84	187	125	65	100	M12X150	4	5.0	•	•	•	•
DN80	84-105	200	140	80	100	M12X150	4	6.3	•	•	•	•
DN100	99-118	235	155	100	100	M12X150	4	6.8	•	•	•	•
DN100	109-133	235	155	100	105	M12X150	4	7.8	•	•	•	•
DN125	133-157	285	185	133	110	M12X170	4	11.0	•	•	•	•
DN150	157-183	285	215	150	110	M12X170	4	12.5	•	•		•
DN200	194-215	345	265	200	120	M12X170	4	15.5	•	•		•
DN200	218-242	245	265	200	120	M12X170	4	17.5	•	•		•
DN250	242-268	410	320	245	120	M12X170	6	20.5	•	•		
DN250	266-291	410	320	250	120	M12X170	6	21.0	•	•		
DN250	280-305	410	320	250	120	M12X170	6	25.5	•	•		
DN300	302-327	490	370	300	120	M12X170	6	27.0	•	•		•
DN300	324-350	455	410	310	140	M12X190	6	24.0	•			
DN350	352-378	520	470	350	120	M14X170	8	25.4	•			
DN350	384-410	520	470	360	140	M14X190	8	29.2	•			
DN400	384-410	580	525	400	160	M14X210	8	29.2	•			
DN400	410-436	580	525	400	160	M14X210	8	34.5	•			
DN400	436-462	580	525	410	160	M14X210	8	36.8	•			

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Universal Coupling



Fig.FC10-A



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.
- Angular deflection +/- 6°.



◆ Material Specification:

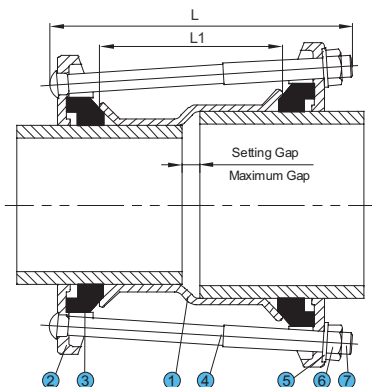
Item No.	Parts Name	Material	Specification
1	Center Sleeve	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Dimensions(mm)

Size	Pipe OD(mm)	L	MXL1	Bolt No.	Weight(kg)
DN50	58-74	100	M12X190	4	2.6
DN65	68-84	100	M12X190	4	3.9
DN80	84-105	100	M12X190	4	5.2
DN100	99-118	100	M12X190	4	5.5
DN100	109-133	100	M12X190	4	6.8
DN125	133-157	100	M12X190	4	6.8
DN150	157-182	115	M12X210	4	9.4
DN150	177-201	115	M12X210	4	9.8
DN200	194-215	115	M12X210	4	9.9
DN200	218-242	160	M12X230	6	14.4
DN225	242-268	160	M12X230	6	18.5
DN250	266-291	160	M12X250	6	18.6
DN250	280-305	160	M12X250	6	20.5
DN300	302-327	160	M12X250	6	22.0
DN300	324-350	160	M14X260	6	16.5
DN350	352-378	160	M14X260	8	19.9
DN350	384-410	160	M14X260	8	21.1
DN400	410-436	160	M14X260	8	21.8
DN400	436-462	160	M14X260	8	23.5

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◆ Material Specification:

No.	Parts Name	Material	Specification
1	Center Sleeve	Carbon Steel	S235JR
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-1:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Features

- Mild Steel S235JR with FBE Coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.
- Angular deflection $\pm 6^\circ$.

◆ Dimensions(mm)

Size Range				Overall Length	Sleeve Length	Setting Gap	Max Gap	Bolts No.& Size	Weight
Small Pipe O.D		Large Pipe O.D							kg
Min	Max	Min	Max	L	L1				
59	72	68	84	210	115	20	40	4-M12X190	2.5
59	72	88	103	210	115	20	40	4-M12X190	3.9
68	84	88	103	210	115	20	40	4-M12X190	4.0
88	103	107	128	210	115	20	40	4-M12X190	5.1
107	128	132	153	220	115	20	40	4-M12X210	6.8
132	153	159	182	220	125	20	40	4-M12X220	8.2
159	182	192	210	230	125	25	50	4-M12X220	9.2
192	210	218	235	230	135	25	50	4-M12X230	10.1
218	235	242	266	230	135	25	50	4-M12X230	14.0
242	266	272	289	230	135	25	50	4-M12X230	15.5
272	289	315	332	230	135	25	50	4-M12X230	20.3

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single

Dedicated

Coupling & Flange Adaptor

For Ductile Iron & Steel Pipes



HIWA Single OD Dedicated Flange Adaptors Covering a similar range to the straight coupling, are manufactured to join plain ended pipe to flanged valves, fittings, flow meters and pipes. Flange drillings are available to all international standards or to customer specifications. Four dedicated couplings join pipes of the same outside diameter, such couplings can be manufactured to suit both metric and imperial dimensions for Steel, Ductile Iron pipes etc.

Design Features

◆ Long Life Sealing

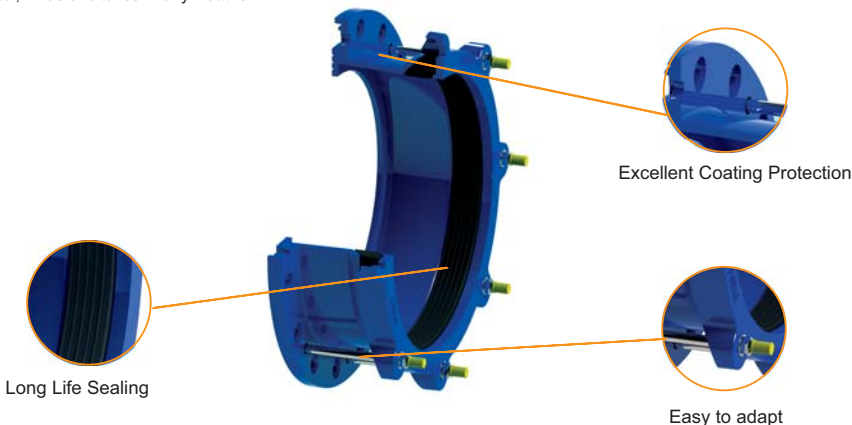
- The elastomeric sealing gasket can supply more than 25 years lifetime.

◆ Easy to Adapt

- Available to many installation conditions, like under-water, kinds of ditches in any weather.

◆ Excellent Coating Protection

- The normal painting for universal fittings is RAL5017 fusion bond epoxy coated powder which with good anticorrosion characteristic, and the bolts and nuts are Dacromet coating, which with good anticorrosion, thermostability characteristic.



Material and Relevant Standards:

Coupling

◆ Centre Sleeve & End Rings

- Ductile Iron to BS EN-GJS-500-7
- Mild Steel to EN10025 S235JR.

Gaskets

◆ Standard

- EPDM TO BS EN681-1
- NBR TO BS EN682

◆ Tee Bolts/Bolts

- Standard: Steel to BS EN ISO 898-1 Class4.8
- Other material available for request.

◆ Nuts/Washers

- Nuts: Steel to BS EN ISO 898-2 .
- Other material available for request.

◆ Washers

- Decromet Coated Steel

◆ Coatings

- Blue FBE coated to RAL5017
- Option: Rilsan Nylon 11.

Flange Adaptor

◆ Body & End Ring

- Ductile Iron to BS EN-GJS-500-7
- Mild Steel to EN10025 S235JR.

Gaskets

◆ Standard

- EPDM TO BS EN681-1
- NBR TO BS EN682

◆ Tee Bolts/Bolts

- Standard: Steel to BS EN ISO 898-1 Class4.8
- Other material available for request.

◆ Nuts/Washers

- Nuts: Steel to BS EN ISO 898-2 .
- Other material available for request.

◆ Washers

- Decromet Coated Steel

◆ Coatings

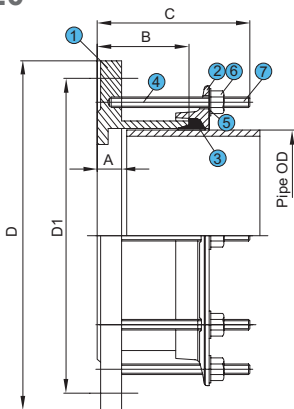
- Blue FBE coated to RAL5017
- Option: Rilsan Nylon 11.

Dedicated Flange Adaptor



Fig. FA20

For Ductile Iron Pipe



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request

◆ Features

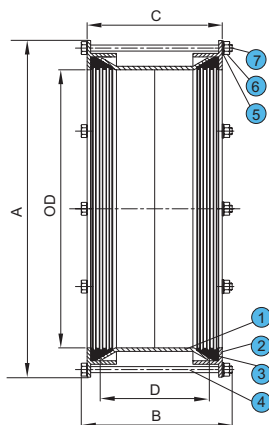
- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- Suitable for Ductile Iron Pipes.

◆ Dimensions(mm)

Size	Pipe OD	B	C	A	PN10 Flange Drilling			PN16 Flange Drilling			Bolts No.	Bolts Size (M x L)
					D	D1	N-Φd	D	D1	N-Φd		
DN40	56	73	105	19	150	110	4-19	150	110	4-19	4	M12X100
DN50	66	73	105	19	165	125	4-19	165	125	4-19	4	M12X100
DN60	77	73	105	19	175	135	4-19	175	135	4-19	4	M12X100
DN65	82	73	105	19	185	145	4-19	185	145	4-19	4	M12X100
DN80	98	73	105	19	200	160	8-19	200	160	8-19	4	M12X100
DN100	118	73	105	19	220	180	8-19	220	180	8-19	4	M12X100
DN125	144	76	115	19	250	210	8-19	250	210	8-19	4	M12X100
DN150	170	76	115	19	285	240	8-23	285	240	8-23	4	M12X110
DN200	222	76	115	20	340	295	8-23	340	295	12-23	4	M12X110
DN250	274	90	130	22	400	350	12-23	400	355	12-28	6	M12X120
DN300	326	90	130	24.5	455	400	12-23	455	410	12-28	6	M12X120
DN350	378	110	180	24.5	505	460	16-23	520	470	16-28	8	M16X170
DN400	429	110	180	24.5	565	515	16-28	580	525	16-31	8	M16X170
DN450	480	110	190	24.5	615	565	20-28	640	585	20-31	10	M16X170
DN500	532	115	190	26.5	670	620	20-28	715	650	20-34	10	M16X180
DN600	635	115	190	30	780	725	20-31	840	770	20-37	10	M16X180
DN700	738	115	190	32.5	895	840	24-31	910	840	24-37	12	M16X180
DN800	842	115	190	35	1015	950	24-34	1025	950	24-40	12	M16X180
DN900	942	120	190	37.5	1115	1050	28-34	1125	1050	28-40	14	M16X180
DN1000	1048	120	190	40	1230	1160	28-37	1255	1170	28-43	14	M16X180
DN1200	1255	130	190	45	1455	1380	32-40	1485	1390	32-49	16	M16X180
DN1400	1462	130	190	46	1675	1590	36-43	1685	1590	36-49	18	M20X200
DN1600	1668	190	275	49	1915	1820	40-49	1930	1820	40-56	20	M20X240
DN1800	1875	190	275	52	2115	2020	44-49	2130	2020	44-56	22	M20X240
DN2000	2082	190	275	55	2325	2230	48-49	2345	2230	48-62	24	M20X240

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For Ductile Iron Pipe



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Center Sleeve	Carbon Steel	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- Suitable for Ductile Iron Pipes.

◆ Dimensions(mm)

Size	Pipe O.D	A	B	C	D	Bolts No.	Bolts Size (M x L)
DN40	56	120	166	125	102	2	M12X158
DN50	66	126	166	125	102	2	M12X158
DN60	77	135	166	125	102	2	M12X158
DN65	82	156	166	125	102	2	M12X158
DN80	98	184	166	130	102	4	M12X158
DN100	118	205	166	130	102	4	M12X158
DN125	144	232	166	130	102	4	M12X158
DN150	170	264	173	133	102	4	M12X165
DN200	222	315	173	133	102	6	M12X165
DN250	274	374	173	136	102	6	M12X165
DN300	326	426	173	136	102	6	M12X165
DN350	378	494	254	200	152	8	M16X240
DN400	429	544	254	200	152	8	M16X240
DN450	480	595	254	200	152	10	M16X240

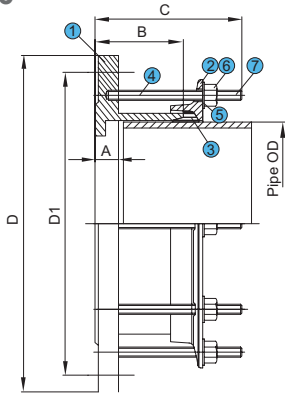
Size	Pipe O.D	A	B	C	D	Bolts No.	Bolts Size (M x L)
DN500	532	650	254	210	152	10	M16X240
DN600	635	753	254	210	152	12	M16X240
DN700	738	858	254	210	152	12	M16X240
DN800	842	962	254	210	152	12	M16X240
DN900	945	1070	280	238	178	14	M16X280
DN1000	1048	1173	280	238	178	14	M16X280
DN1100	1152	1282	280	240	178	16	M16X280
DN1200	1255	1385	280	240	178	18	M16X280
DN1400	1462	1592	295	250	178	20	M20X280
DN1600	1668	1798	295	250	178	24	M20X280
DN1800	1875	2015	375	320	254	32	M20X360
DN2000	2082	2222	375	320	254	36	M20X360

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Dedicated Flange Adaptor



Fig. FA30



For Steel Pipe

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- Suitable for Steel Pipes.

◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GJS500-7
2	End Ring	Ductile Iron	GJS500-7
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request

◆ Dimensions(mm)

Size	Pipe O.D	B	C	A		PN10 Flange Drilling			PN16 Flange Drilling			Bolts No.	Bolts Size (MXL)
				PN10	PN16	D	D1	N-Φd	D	PCD	N-Φd		
DN50	60.5	73	105	19	19	165	125	4-19	165	125	4-19	4	M12X100
DN65	76.3	73	105	19	19	185	145	4-19	185	145	4-19	4	M12X100
DN80	89.1	73	105	19	19	200	160	8-19	200	160	8-19	4	M12X100
DN100	114.3	73	105	19	19	220	180	8-19	220	180	8-19	4	M12X100
DN125	139.8	76	115	19	19	250	210	8-19	250	210	8-19	4	M12X110
DN150	168.3	76	115	19	19	285	240	8-23	285	240	8-23	4	M12X110
DN200	219.1	76	115	20	20	340	295	8-23	340	295	12-23	4/6	M12X110
DN250	273.1	90	130	22	24	400	350	12-23	400	355	12-28	6	M12X120
DN300	323.9	90	130	24	24	455	400	12-23	455	410	12-28	6	M12X120
DN350	355.6	110	180	24	26	505	460	16-23	520	470	16-28	8	M16X170
DN400	406.4	110	180	24	28	565	515	16-28	580	525	16-31	8	M16X170
DN450	457.2	110	190	25	30	615	565	20-28	640	585	20-31	10	M16X170
DN500	508	115	190	26	31	670	620	20-28	718	650	20-34	10	M16X180
DN600	609.6	115	190	30	36	780	725	20-31	840	770	20-37	10	M16X180
DN700	711.2	115	190	32	39	895	840	24-31	910	840	24-37	12	M16X180
DN800	812.8	115	190	35	43	1015	950	24-34	1025	950	24-40	12	M16X180
DN900	914.4	115	190	37	46	1115	1050	28-34	1125	1050	28-40	14	M16X180
DN1000	1016	115	190	40	50	1230	1160	28-37	1255	1170	28-43	14	M16X180
DN1200	1219.2	130	190	45	57	1455	1380	32-40	1485	1390	32-49	16	M16X180

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Fig. FC40

For Steel Pipe



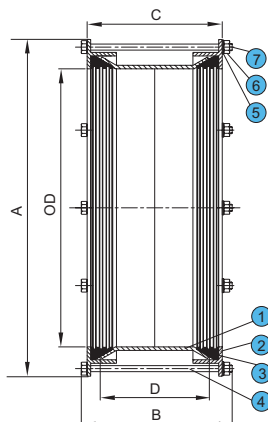
◆ Material Specification:

No.	Parts Name	Material	Specification
1	Center Sleeve	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request

◆ Dimensions(mm)

Size	Pipe O.D	A	B	C	D	Bolts No.	Bolts Size (M X L)
DN15	21.3	98	150	112	83	2	M12X140
DN20	26.9	102	150	112	83	2	M12X140
DN25	33.7	115	150	112	83	2	M12X140
DN32	42.4	120	150	112	83	2	M12X140
DN40	48.3	125	150	112	83	2	M12X140
DN50	60.3	138	150	112	83	2	M12X140
DN65	76.1	160	160	118	102	2	M12X152
DN80	88.9	172	160	125	102	3	M12X152
DN90	101.6	184	160	125	102	4	M12X152
DN100	114.3	200	160	125	102	4	M12X152
DN125	139.7	232	173	125	102	4	M12X165
DN150	165.2	258	173	125	102	4	M12X152
DN150	168.3	260	173	125	102	4	M12X152
DN200	216.3	310	173	125	102	6	M12X152
DN200	219.1	313	173	125	102	6	M12X152
DN250	267.4	366	173	127	102	6	M12X152
DN250	273.1	373	173	127	102	6	M12X152
DN300	318.5	420	173	129	102	6	M12X152



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- Suitable for Steel Pipes .

Size	Pipe O.D	A	B	C	D	Bolts No.	Bolts Size (M x L)
DN300	323.9	424	173	129	102	6	M12X152
DN350	355.6	471	254	200	152	8	M16X240
DN400	406.4	521	254	200	152	8	M16X240
DN450	457.2	572	254	200	152	8	M16X240
DN500	508	628	254	210	152	10	M16X240
DN550	558.8	679	254	210	152	10	M16X240
DN600	609.6	730	254	210	152	10	M16X240
DN650	660.4	780	254	210	152	12	M16X240
DN700	711.2	831	254	210	152	12	M16X240
DN750	762	882	254	210	152	12	M16X240
DN800	812.8	932	254	210	152	12	M16X240
DN850	863.6	983	254	210	152	12	M16X240
DN900	914.4	1040	254	210	152	14	M16X240
DN1000	1016	1141	280	238	178	14	M16X280
DN1050	1066.8	1197	280	240	178	16	M16X280
DN1100	1117.6	1248	280	240	178	16	M16X280
DN1200	1219.2	1350	280	240	178	16	M16X280

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Flexible

Dismantling Joint

Heavy & Light Duty Style

For DI, Steel Pipe



HIWA dismantling joint is a double flanged fittings that provides easy installation and disassembly of flanged pipe networks and fittings, or flanged equipment such as valves, meters and pumps. These fittings are widely used in water, sewage and neutral liquids fields up to 70°C with a nominal bore from 50mm to 2000mm.

HIWA dismantling joints are available on the following two basic structures to suit customer's requirements.



◆ Features and Benefits:

- 1. $\pm 25\text{mm}$ longitudinal adjustment simplifies future pipework modifications and reduces down time.
- 2. Can be locked at required length with tie rods supplied.
- 3. FBE anticorrosive coated make long service life.
- 4. Both restrained or un-restrained styles for selection.
- 5. The integral tie-bar assembly avoid the need for other external restraints.
- 6. Special configurations and high pressure alternatives are available on request.

◆ Typical Applications:

- The dismantling joint is particularly suitable for simplifying the installation and removal of :
- Non return valves
- Check Valves
- Isolation valves
- Control Valves
- Flow metering equipment
- Pump sets
- Pressure reducing valves
- Flanged pipe and fittings

◆ General Application Areas:

- 1. Sewage treatment works
- 2. water treatment works
- 3. Power generation equipment and gas distribution stations.
- 4. Industrial cooling systems
- 5. Pumping stations

Heavy Duty Dismantling Joint

hiwa

Fig. FD10

HIWA FD10 Dismantling Joint, the seal using the tie-bar, they also suitable for most applications and are rated up to 25 bar.

◆ Longitudinal Adjustment

- $\pm 25\text{mm}$ longitudinal adjustment simplifies future pipework modifications and reduces down time.

◆ Excellent Coating Protection

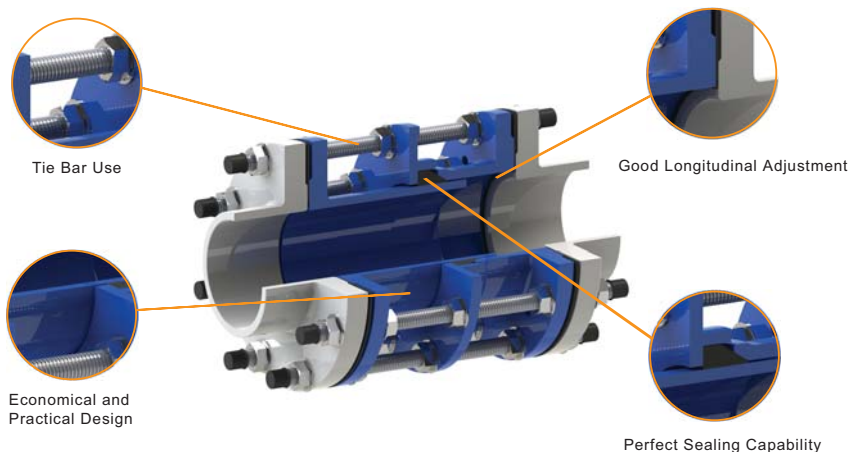
- The normal painting is RAL5017 FBE coated powder which with good anticorrosion characteristic, the studs, nuts, washers with Dacromet coated, which with good anticorrosion, thermostability characteristic than galvanized plated.

◆ Perfect Sealing Capability

- The rubber gasket is compressed by the middle flange through fasten nuts of tie bars, and the sealing capability achieve as soon as the fasteners reach required torque.

◆ Tie Bar Use:

- The dismantling joint can be locked at required length with tie bars supplied.



Material and Technical Specifications:

◆ Body and Middle Flange:

- Ductile Iron to EN1563 GGG50.
- Mild Steel to EN10025 S235JR.

◆ Fasteners:

- **Studs, Nuts, Washer:** Tensile Steel 4.8
- **Tie Bars:** Tensile Steel 4.8 or 8.8 according to actual application.

◆ Fasteners Coating:

- Dacromet Coating for normal application.
- Galvanized coating or Teflon coating also available on request.

◆ Seals(Rubber Gasket):

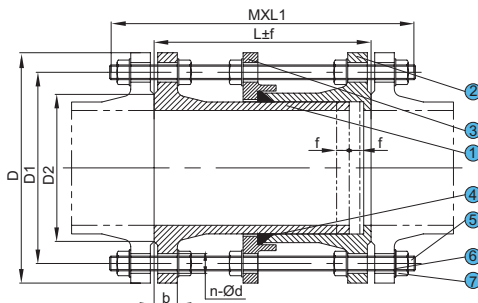
- EPDM to EN681
- NBR to EN682
- WRAS approved seals for potable water also available on request

◆ Temperature: Up to 70°C

- High temperatures will affect the life of products installation. Special temperature application kindly contact with Fowry directly.

◆ Material Specification:

Item No.	Item Name	Material	Specification
1	long flange body	Ductile Iron	GGG50
2	Short flange body	Ductile Iron	GGG50
3	Middle flange	Ductile Iron	GGG50
4	Seal Ring	Rubber	EPDM
5	Stud	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-2:1992



◆ Dimensions(mm)

Size	ID	OD	Length(mm)		Adjustment(mm)	EN1092 PN10					No. of Tie-bar		
			L	L1	L ±25	D	D1	D2	b	n-M	25% restrained	50% restrained	100% restrained
DN50	65	66	205	310	±25	165	125	99	19	4-M16			4
DN65	80	82	205	310	±25	185	145	118	19	4-M16			4
DN80	83	98	205	340	±25	200	160	132	19	8-M16		4	8
DN100	101	118	205	340	±25	220	180	156	19	8-M16		4	8
DN150	154	170	205	340	±25	285	240	211	19	8-M20		4	8
DN200	206.5	222	215	350	±25	340	295	266	20	8-M20		4	8
DN250	258	274	220	370	±25	400	350	319	22	12-M20	3	6	12
DN300	307	326	240	390	±25	455	400	370	24.5	12-M20	3	6	12
DN350	359	378	240	400	±25	505	460	429	24.5	16-M20	4	8	16
DN400	408	429	250	420	±25	565	515	480	24.5	16-M24	4	8	16
DN450	456	480	265	440	±25	615	565	530	25.5	20-M24	5	10	20
DN500	508	532	275	440	±25	670	620	582	26.5	20-M24	5	10	20
DN600	613.4	635	295	460	±25	780	725	682	30	20-M27	5	10	20
DN700	711	738	300	480	±25	895	840	794	32.5	24-M27	6	12	24
DN800	817	842	320	500	±25	1015	950	901	35	24-M30	6	12	24
DN900	911	945	320	500	±25	1115	1050	1001	37.5	28-M30	7	14	28
DN1000	1012	1048	330	545	±25	1230	1160	1112	40	28-M33	7	14	28
DN1200	1216	1255	350	580	±25	1455	1380	1328	45	32-M36	8	16	32
DN1400	1420	1462	380	630	±25	1675	1590	1530	46	36-M39	9	18	36
DN1500	1520	1565	400	665	±25	1785	1700	1640	47.5	36-M39	9	18	36
DN1600	1620	1668	400	700	±25	1915	1820	1750	49	40-M45	10	20	40
DN1800	1820	1875	420	730	±25	2115	2020	1950	52	44-M52	10	20	40

◆ Basic Technical Data:

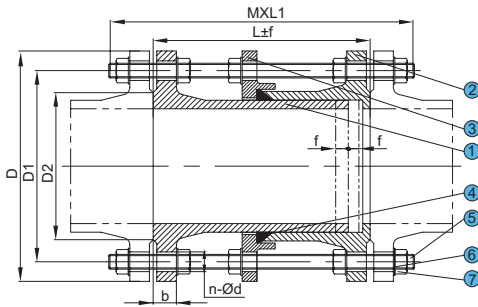
- Dimension Range: DN50 to DN1800.
- Working Pressure: PN10.
- Flange Drilling: BS EN1092 PN10.
- Max. Temperature: 80°C for NBR & EPDM.
- High temperature is available on request .
- Un-Restrained Dismantling Joint without Tie-bar.

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Heavy Duty Dismantling Joint PN16



Fig. FD10



◆ Material Specification:

Item No.	Item Name	Material	Specification
1	long flange body	Ductile Iron	GGG50
2	Short flange body	Ductile Iron	GGG50
3	Middle flange	Ductile Iron	GGG50
4	Seal Ring	Rubber	EPDM
5	Stud	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-2:1992

◆ Dimensions(mm)

Size	ID	OD	Length(mm)		Adjustment(mm)	EN1092 PN16						No. of Tie-bar		
			L	L1		L±25	D	D1	D2	b	n-M	25% restrained	50% restrained	100% restrained
DN50	65	66	205	310	±25		165	125	99	19	4-M16			4
DN65	80	82	205	310	±25		185	145	118	19	4-M16			4
DN80	83	98	205	340	±25		200	160	132	19	8-M16		4	8
DN100	101	118	205	340	±25		220	180	156	19	8-M16		4	8
DN150	154	170	205	340	±25		285	240	211	19	8-M20		4	8
DN200	206.5	222	215	350	±25		340	295	266	20	12-M20	3	6	12
DN250	258	274	220	380	±25		400	355	319	22	12-M24	3	6	12
DN300	307	326	240	400	±25		455	410	370	24.5	12-M24	3	6	12
DN350	359	378	240	410	±25		520	470	429	26.5	16-M24	4	8	16
DN400	408	429	250	430	±25		580	525	480	28	16-M27	4	8	16
DN450	456	480	265	450	±25		640	585	548	30	20-M27	5	10	20
DN500	508	532	275	460	±25		715	650	609	31.5	20-M30	5	10	20
DN600	613.4	635	295	500	±25		840	770	720	36	20-M33	5	10	20
DN700	711	738	300	500	±25		910	840	794	39.5	24-M33	6	12	24
DN800	817	842	320	530	±25		1025	950	901	43	24-M36	6	12	24
DN900	911	945	320	530	±25		1125	1050	1001	46.5	28-M36	7	14	28
DN1000	1012	1048	330	570	±25		1255	1170	1112	50	28-M39	7	14	28
DN1200	1216	1255	350	620	±25		1485	1390	1328	57	32-M45	8	16	32
DN1400	1420	1462	380	630	±25		1685	1590	1530	60	36-M45	9	18	36
DN1500	1520	1565	400	665	±25		1820	1710	1640	62.5	36-M52	9	18	36
DN1600	1620	1668	400	700	±25		1930	1820	1750	65	40-M52	10	20	40
DN1800	1820	1875	420	730	±25		2130	2020	1950	70	44-M52	11	22	44

◆ Basic Technical Data:

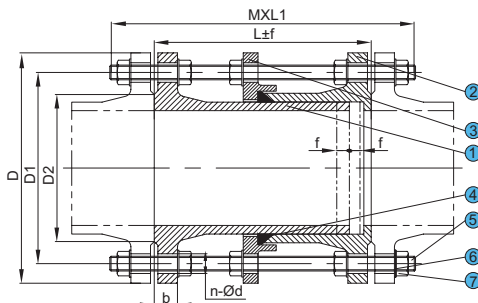
- Dimension Range: DN50 to DN1800.
- Working Pressure: PN16.
- Flange Drilling: BS EN1092 PN16.
- Max. Temperature: 80°C for NBR & EPDM.
- High temperature is available on request .
- Un-Restrained Dismantling Joint without Tie-bar.

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Fig. FD10

◆ Material Specification:

Item No.	Item Name	Material	Specification
1	long flange body	Ductile Iron	GGG50
2	Short flange body	Ductile Iron	GGG50
3	Middle flange	Ductile Iron	GGG50
4	Seal Ring	Rubber	EPDM
5	Stud	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-2:1992



◆ Dimensions(mm)

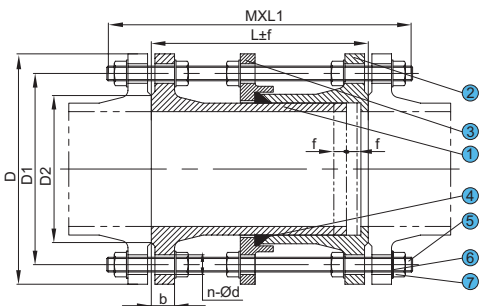
Size	ID	OD	Length(mm)		Adjustment(mm)	EN1092 PN25					No. of Tie-bar		
			L	L1	L±25	D	D1	D2	b	n-M	25% restrained	50% restrained	100% restrained
DN50	65	66	205	310	±25	165	125	99	19	4-M16			4
DN65	80	82	205	310	±25	185	145	118	19	8-M16		4	8
DN80	83	98	205	340	±25	200	160	132	19	8-M16		4	8
DN100	101	118	205	340	±25	235	190	156	19	8-M20		4	8
DN150	154	170	205	340	±25	300	250	211	20	8-M24		4	8
DN200	206.5	222	215	350	±25	360	310	274	22	12-M24	3	6	12
DN250	258	274	220	400	±25	425	370	330	24.5	12-M27	3	6	12
DN300	307	326	240	420	±25	485	430	389	27.5	16-M27	4	8	16
DN350	359	378	240	420	±25	555	490	448	30	16-M30	4	8	16
DN400	408	429	250	430	±25	620	550	503	32	16-M33	4	8	16
DN450	456	480	265	460	±25	670	600	548	34.5	20-M33	5	10	20
DN500	508	532	275	460	±25	730	660	609	36.5	20-M33	5	10	20
DN600	613.4	635	295	500	±25	845	770	720	42	20-M36	5	10	20
DN700	711	738	300	500	±25	960	875	820	46.5	24-M39	6	12	24
DN800	817	842	320	530	±25	1085	990	928	51	24-M45	6	12	24
DN900	911	945	320	530	±25	1185	1090	1028	55	28-M45	7	14	28
DN1000	1012	1048	330	570	±25	1320	1210	1140	60	28-M52	7	14	28
DN1200	1216	1255	350	620	±25	1530	1420	1350	69	32-M52	8	16	32

◆ Basic Technical Data:

- Dimension Range: DN50 to DN1200.
- Working Pressure: PN25.
- Flange Drilling: BS EN1092 PN25.
- Max. Temperature: 80°C for NBR & EPDM.
- High temperature is available on request .
- Un-Restrained Dismantling Joint without Tie-bar.

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Fig. FD10



◆ Material Specification:

Item No.	Item Name	Material	Specification
1	long flange body	Ductile Iron	GGG50
2	Short flange body	Ductile Iron	GGG50
3	Middle flange	Ductile Iron	GGG50
4	Seal Ring	Rubber	EPDM
5	Stud	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-2:1992

◆ Dimensions(mm)

Size	ID	OD	Length(mm)		Adjustment(mm)	AS2129 Table D/E						No. of Tie-bar		
			L	L1	L±25	D	D1	D2	b	Table D n-M	Table E n-M	25% restrained	50% restrained	100% restrained
DN80	83	98	205	340	±25	185	146	122	19	4-M16	4-M16			4
DN100	101	118	205	340	±25	215	178	154	19	4-M16	8-M16			4
DN150	154	170	205	340	±25	280	235	186	19	8-M16	8-M20		4	8
DN200	206	222	215	350	±25	335	292	211	20	8-M16	8-M20		4	8
DN250	258	274	220	380	±25	405	356	328	22	8-M20	12-M20	3	6	12
DN300	307	326	240	400	±25	455	406	378	25	12-M20	12-M24	3	6	12
DN350	359	378	240	410	±25	525	470	438	27	12-M24	12-M24	3	6	12
DN400	408	429	250	430	±25	580	521	489	28	12-M24	12-M24	3	6	12
DN450	456	480	265	450	±25	640	584	532	30	12-M24	16-M24	4	8	16
DN500	508	532	275	460	±25	705	641	609	32	16-M24	16-M24	4	8	16
DN600	613	635	295	500	±25	825	756	717	36	16-M27	16-M30	4	8	16
DN700	711	738	300	500	±25	910	845	806	40	20-M27	20-M30	5	10	20
DN800	817	842	320	530	±25	1060	984	942	43	20-M33	20-M33	5	10	20
DN900	911	945	320	530	±25	1175	1092	1050	47	24-M33	24-M33	6	12	24
DN1000	1012	1048	330	570	±25	1255	1175	1130	50	24-M36	24-M36	6	12	24
DN1200	1216	1255	350	620	±25	1490	1410	1365	57	32-M33	32-M36	8	16	32

◆ Basic Technical Data:

- Dimension Range: DN80 to DN1200.
- Working Pressure: PN16.
- Flange Drilling: AS2129 Table D/E & BS10 Table D/E
- Max. Temperature: 80°C for NBR & EPDM.
- High temperature is available on request .
- Un-Restrained Dismantling Joint without Tie-bar.

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HIWA FD20 Dismantling Joint., the seal using the flange adaptor stud bolts, they normally suitable for most application and rated up to 16 bar.

◆ Good Longitudinal Adjustment

- $\pm 25\text{mm}$ longitudinal adjustment simplifies future pipework modifications and reduces down time.

◆ Excellent Coating Protection

- The normal painting is RAL5017 FBE coated powder which with good anticorrosion characteristic, the studs, nuts, washers with Dacromet coated, which with good anticorrosion, thermostability characteristic than galvanized plated.

◆ Economical and Practical Design

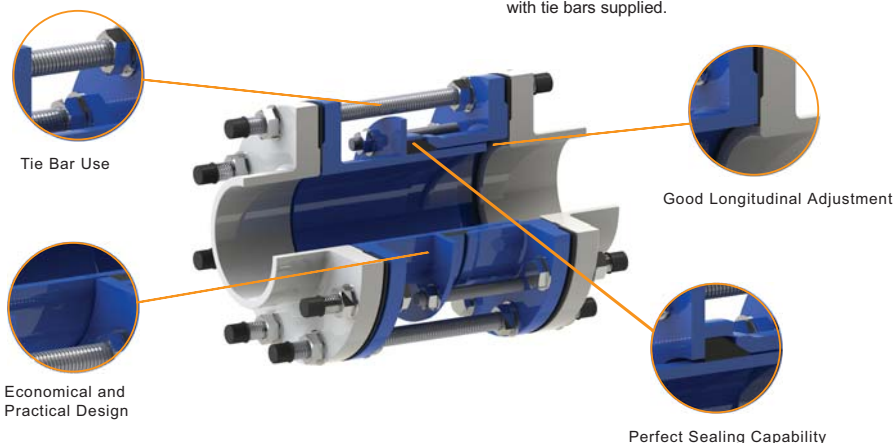
- Flange Adaptor plus flanged spigot design make light weight to reduce cost, flange adaptor with univesal flange drilling facilitate dissimilar flanged pipe connection.

◆ Perfect Sealing Capability

- The rubber gasket is compressed independently of tie bars, the sealing capability achieve as soon as the fasteners reach required torque.

◆ Tie Bar Use:

- The dismantling joint can be locked at required length with tie bars supplied.



Material and Techincal Specifications:

◆ Body and Gland Ring:

- Ductile Iron to EN1563 GGG50.
- Mild Steel to EN10025 S235JR.

◆ Fasteners:

- **Studs of Flange Adaptor:** Tensile Steel 4.8
- **Tie Bars:** Tensile Steel 4.8 or 8.8 according to actual application.

◆ Fasteners Coating:

- DDacromet Coating for normal application.
- Galvanized coating or Teflon coating also available on request.

◆ Seals(Rubber Gasket):

- EPDM to EN681
- NBR to EN682
- WRAS approved seals for potable water also available on request.

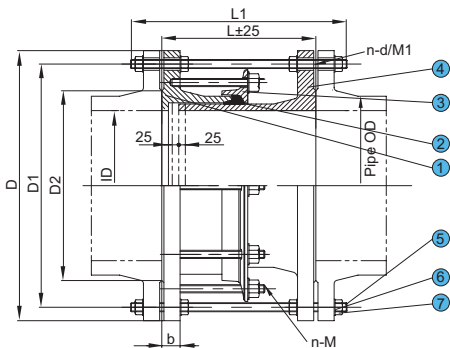
◆ Temperature: Up to 70°C

- High temperatures will affect the life of products installation. Special temperature application kindly contact with Fowry directly.

Light Duty Dismantling Joint PN10

hiwa

Fig. FD20



◆ Material Specification:

Item No.	Item Name	Material	Specification
1	Short Flanged Body	Ductile Iron	GGG50
2	Seal Ring	Rubber	EPDM
3	End Ring	Ductile Iron	GGG50
4	Flange Spigot	Ductile Iron	GGG50
5	Stud	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-2:1992

◆ Dimensions(mm)

Size	ID	OD	Length(mm)		Adjustment(mm)	EN1092 PN10					Bolt/Nut	
			L	L1		D	D1	D2	b	n-d	n-M	M1
DN80	83	98	205	340	±25	200	160	132	19	8-19	4-M12	M16
DN100	101	118	205	340	±25	220	180	156	19	8-19	4-M12	M16
DN150	154	170	205	340	±25	285	240	211	19	8-23	4-M12	M20
DN200	206.5	222	215	350	±25	340	295	266	20	8-23	4-M12	M20
DN250	258	274	220	370	±25	400	350	319	22	12-23	6-M12	M20
DN300	307	326	240	390	±25	455	400	370	24.5	12-23	6-M12	M20
DN350	359	378	240	400	±25	505	460	429	24.5	16-23	8-M16	M20
DN400	408	429	250	420	±25	565	515	480	24.5	16-28	8-M16	M24
DN450	456	480	265	435	±25	615	565	530	25.5	20-28	10-M16	M24
DN500	508	532	275	440	±25	670	620	582	26.5	20-28	10-M16	M24
DN600	613.4	635	295	460	±25	780	725	682	30	20-31	10-M16	M27
DN700	711	738	300	480	±25	895	840	794	32.5	24-31	12-M16	M27
DN800	817	842	320	500	±25	1015	950	901	35	24-34	12-M16	M30
DN900	911	945	320	500	±25	1115	1050	1001	37.5	28-34	12-M16	M30
DN1000	1012	1048	330	545	±25	1230	1160	1112	40	28-37	12-M16	M33
DN1200	1216	1255	350	580	±25	1455	1380	1328	45	32-41	12-M16	M36

◆ Basic Technical Data:

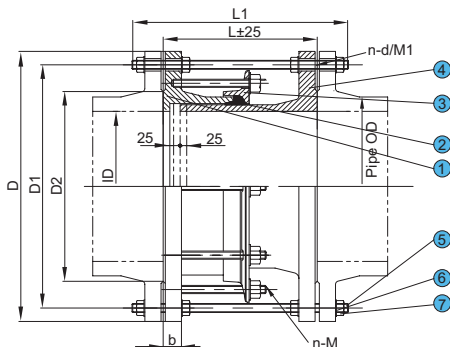
- Dimension Range: DN80 to DN1200.
- Working Pressure: PN10.
- Flange Drilling: BS EN1092 PN10.
- Max. Temperature: 80°C for NBR & EPDM.
- High temperature is available on request .
- Un-Restrained Dismantling Joint without Tie-bar .

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Fig. FD20

◆ Material Specification:

Item No.	Item Name	Material	Specification
1	Short Flanged Body	Ductile Iron	GGG50
2	Seal Ring	Rubber	EPDM
3	End Ring	Ductile Iron	GGG50
4	Flange Spigot	Ductile Iron	GGG50
5	Stud	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-2:1992



◆ Dimensions(mm)

Size	ID	OD	Length(mm)		Adjustment(mm)	EN1092 PN16					Bolt/Nut	
			L	L1		D	D1	D2	b	n-d	n-M	M1
DN80	83	98	205	340	±25	200	160	132	19	8-19	4-M12	M16
DN100	101	118	205	340	±25	220	180	156	19	8-19	4-M12	M16
DN150	154	170	205	340	±25	285	240	211	19	8-23	4-M12	M20
DN200	206.5	222	215	350	±25	340	295	266	20	12-23	6-M12	M20
DN250	258	274	220	380	±25	400	355	319	22	12-28	6-M12	M24
DN300	307	326	240	400	±25	455	410	370	24.5	12-28	6-M12	M24
DN350	359	378	240	410	±25	520	470	429	26.5	16-28	8-M16	M24
DN400	408	429	250	430	±25	580	525	480	28	16-31	8-M16	M27
DN450	456	480	265	450	±25	640	585	548	30	20-31	10-M16	M27
DN500	508	532	275	460	±25	715	650	609	31.5	20-34	10-M16	M30
DN600	613.4	635	295	500	±25	840	770	720	36	20-37	10-M16	M33
DN700	711	738	300	500	±25	910	840	794	39.5	24-37	12-M16	M33
DN800	817	842	320	530	±25	1025	950	901	43	24-41	12-M16	M36
DN900	911	945	320	530	±25	1125	1050	1001	46.5	28-41	14-M16	M36
DN1000	1012	1048	330	570	±25	1255	1170	1112	50	28-44	14-M16	M39
DN1200	1216	1255	350	620	±25	1485	1390	1328	57	32-50	16-M16	M45

◆ Basic Technical Data:

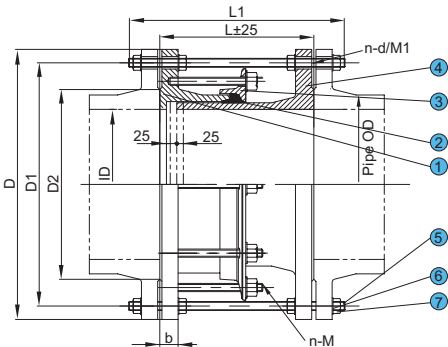
- Dimension Range: DN80 to DN1200.
- Working Pressure: PN16.
- Flange Drilling: BS EN1092 PN16.
- Max. Temperature: 80°C for NBR & EPDM.
- High temperature is available on request .
- Un-Restrained Dismantling Joint without Tie-bar.

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Light Duty Dismantling Joint AS/BS Table D/E



Fig. FD20



◆ Material Specification:

Item No.	Item Name	Material	Specification
1	Short Flanged Body	Ductile Iron	GGG50
2	Seal Ring	Rubber	EPDM
3	End Ring	Ductile Iron	GGG50
4	Flange Spigot	Ductile Iron	GGG50
5	Stud	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-2:1992

◆ Dimensions(mm)

Size	ID	OD	Length(mm)		Adjustment(mm)		AS2129 Table D/E				AS2129 Table D			AS2129 Table E		
			L	L±25			D	D1	D2	b	n-d	n-M	M1	n-d	n-M	M1
DN80	83	98	205	±25	185	146	122	19	4-18	4-M12	M16	4-18	4-M12	M16		
DN100	101	118	205	±25	215	178	154	19	4-18	4-M12	M16	8-18	4-M12	M16		
DN150	154	170	205	±25	280	235	186	19	8-18	4-M12	M16	8-22	4-M12	M20		
DN200	206	222	215	±25	335	292	211	20	8-18	4-M12	M16	8-22	4-M12	M20		
DN250	258	274	220	±25	405	356	328	22	8-22	4-M12	M20	12-22	6-M12	M20		
DN300	307	326	240	±25	455	406	378	25	12-22	6-M12	M20	12-26	6-M12	M24		
DN350	359	378	240	±25	525	470	438	27	12-26	6-M16	M24	12-26	6-M16	M24		
DN400	408	429	250	±25	580	521	489	28	12-26	6-M16	M24	12-26	6-M16	M24		
DN450	456	480	265	±25	640	584	532	30	12-26	6-M16	M24	16-26	8-M16	M24		
DN500	508	532	275	±25	705	641	609	32	16-26	8-M16	M24	16-26	8-M16	M24		
DN600	613	635	295	±25	825	756	717	36	16-30	8-M16	M27	16-33	8-M16	M30		
DN700	711	738	300	±25	910	845	806	40	20-30	10-M16	M27	20-33	10-M16	M30		
DN800	817	842	320	±25	1060	984	942	43	20-36	10-M16	M33	20-36	10-M16	M33		
DN900	911	945	320	±25	1175	1092	1050	47	24-36	12-M16	M33	24-36	12-M16	M33		
DN1000	1012	1048	330	±25	1255	1175	1130	50	24-36	12-M16	M36	24-39	12-M16	M36		
DN1200	1216	1255	350	±25	1490	1410	1365	57	32-36	16-M16	M33	32-39	12-M16	M36		

◆ Basic Technical Data:

- Dimension Range: DN80 to DN1200.
- Working Pressure: PN16
- Flange Drilling: AS2129 Table D/E & BS10 Table D/E
- Max. Temperature: 80℃ for NBR & EPDM.
- High temperature is available on request .
- Un-Restrained Dismantling Joint without Tie-bar.

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Restrained

Grip

Coupling & Flange Adaptor

For HDPE Pipe



Fig.FA802 & FC802

HIWA tensile restrained coupling & flange adaptor, are tensile resistant fittings for HDPE pipes, it contains an end load resistant mechanism, that grips and seals onto HDPE Pipes to prevent the pipe pull off from the pipe system. It's suitable for use with water, drainage, sewage ... pipe systems, and the maximum working temperature is 80°C.

◆ Suitable for Water & Gas

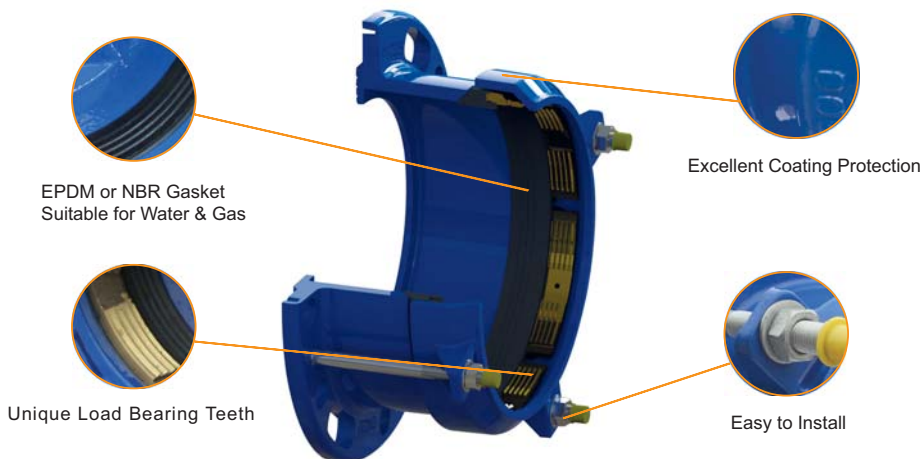
- The Restrained Coupling & Adaptor are supplied as standard with EPDM gasket for water applications to EN681, also available with NBR gasket to EN682 for natural gas, petroleum products, drainage, sewage ect.

◆ Excellent Corrosion Protection

- Metal units are coated with RAL5017 fusion bond epoxy coated powder which with good anticorrosion characteristic. The nuts and bolts are Dacromet, offering long term protection against corrosion, impact and abrasion to ensure continued reliable performance.

◆ Unique Load Bearing Teeth

- As the compression bolts are tightened, unique load bearing brass teeth are insert into the gasket grip around the outside diameter of the pipe, providing a fully end load restraint joint.



Material And Relevant Standards:

Coupling

◆ Centre Sleeve

- Ductile Iron to EN-GJS-450-10, EN-GJS-500-7
- Rolled Steel to EN St.37.2

◆ End Rings

- Ductile Iron to EN-GJS-450-10, EN-GJS-500-7

◆ Bolts/Nuts/Washers

- Cold forged steel to ISO898-1, Class6.8, Dacromet Coated.
- Other material available for request.

◆ Sealing Ring:

- EPDM to BS EN 681-1+Brass Teeth

◆ Coatings

- RAL5017 FBE coated.
- Others available on request.

Flange Adaptor

◆ Body & End Rings

- Ductile Iron to BS EN-GJS-500-7

◆ End Rings

- Ductile Iron to EN-GJS-450-10, EN-GJS-500-7

◆ Bolts/Nuts/Washers

- Cold forged steel to ISO898-1, Class6.8, Dacromet Coated.
- Other material available for request.

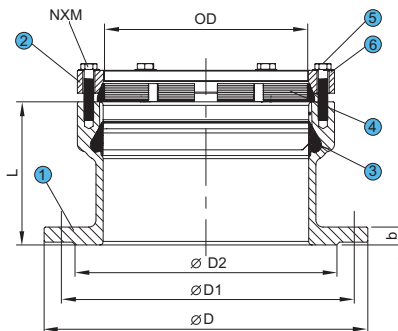
◆ Sealing Ring:

- EPDM to BS EN 681-1+Brass Teeth

◆ Coatings

- RAL5017 FBE coated.
- Others available on request.

Fig.FA801



◆ Material Specification:

No.	Item Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Grip Ring	Brass	
5	Bolt	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings

◆ Dimensions(mm)

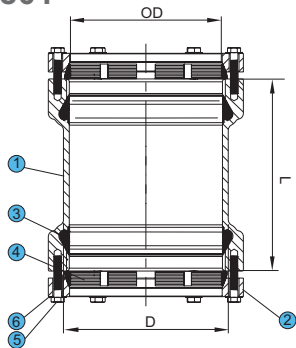
Size	Pipe OD	PN	D	D1	D2	b	L	NXM	DIN EN	Weight
									PN10/PN16	kg
DN50	63	10/16	165	125	99	19	73	2XM10	•	4
DN65	75	10/16	185	145	118	19	74	2XM10	•	5.2
DN80	90	10/16	200	160	132	19	75	4XM10	•	6.4
DN100	110	10/16	220	180	156	19	76	4XM10	•	7.3
DN100	125	10/16	220	180	156	19	77	4XM10	•	11
DN125	125	10/16	250	210	184	19	76	4XM10	•	11.5
DN125	140	10/16	250	210	184	19	76.5	4XM10	•	13
DN150	160	10/16	285	240	211	19	96	4XM10	•	14.5
DN150	180	10/16	285	240	211	19	96	4XM10	•	14.5
DN200	200	16	340	295	266	20	112	4XM10	•	18.5
DN200	225	16	340	295	266	20	113	4XM10	•	19.5
DN250	250	16	400	350	319	22	128	6XM10	•	28
DN250	280	16	400	355	319	22	136	6XM10	•	30
DN300	315	16	455	410	370	24	158	6XM10	•	41

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Tensile Restrained Coupling for HDPE Pipe



Fig.FC801



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings

◆ Material Specification:

No.	Item Name	Material	Specification
1	Center Sleeve	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Grip Ring	Brass	
5	Bolt	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	

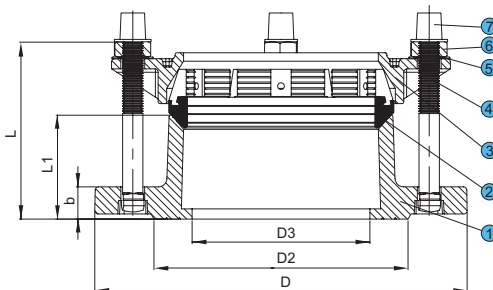
Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Dimensions(mm)

Pipe O.D	D	L	NXM	Weight
		mm	mm	kg
63	130	125	2xM10	4
75	146	126	4xM10	5.8
90	159	128	4xM10	6.5
110	182	130	4xM10	8
125	195	134	4xM10	9.5
140	212	145	4xM10	11
160	235	170	4xM10	13
180	256	185	4xM10	15.5
200	275	210	4xM10	18
225	302	215	4xM10	18.5
250	325	240	6xM10	31.5
280	359	250	6xM10	36
315	394	300	6xM10	48

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Fig.FA802



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	Sealing Ring	Rubber+Brass	EPDM+Brass
3	End Ring	Ductile Iron	GGG50
4	Bolts	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nuts	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.

◆ Dimensions(mm)

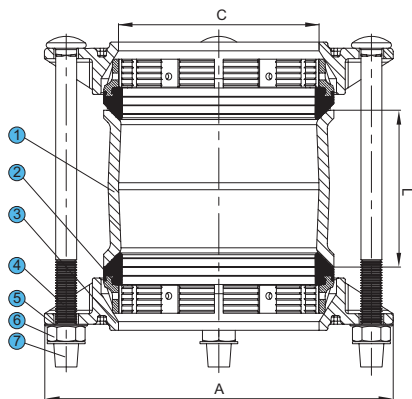
Size	Pipe OD	D3	D	b	L1	L	Bolts Qty	DIN EN	Weight
								PN10/PN16	kg
DN50	50	50	165	19	63	115	2XM12	•	3.61
DN50/DN60DN65	63	55	180	19	63	115	2XM12	•	4.29
DN60/DN65	75	66	180	19	63	115	2XM12	•	4.39
DN80	90	84	180	19	63	115	4XM12	•	4.58
DN100	110	105	200	19	63	115	4XM12	•	6.44
DN125	125	135	220	19	63	115	4XM12	•	6.63
DN150	160	154	285	19	63	115	4XM12	•	8.39
DN200	200	210	340	19	63	140	4XM14	•	13.75
DN200	225	210	340	20	88	160	4XM14	•	14.72
DN250	250	260	400	22	88	160	6XM16	•	23.89
DN250	280	275	400	22	88	160	6XM16	•	24.38
DN300	315	302	455	24	88	160	6XM16	•	27.89

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Tensile Restrained Coupling for HDPE pipe



Fig.FC802



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.

◆ Material Specification:

No.	Parts Name	Material	Specification
1	Center Sleeve	Ductile Iron	GGG50
2	Sealing Ring	Rubber+Brass	EPDM+Brass
3	End Ring	Ductile Iron	GGG50
4	Bolts	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nuts	Galvanized Steel	ISO898-2:1992
7	Cap	Plastic	

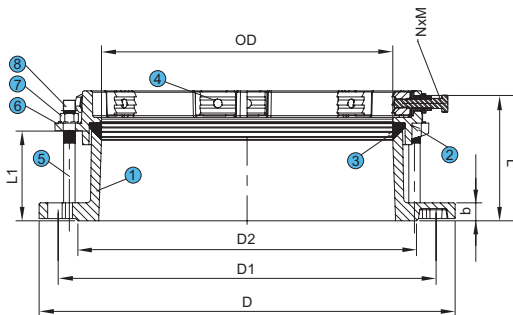
Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Dimensions(mm)

Pipe OD	ID	A	L	Bolts Qty	Weight(kg)
50	55	140	95	2XM12	2.73
63	67	150	95	2XM12	3.41
75	80	150	95	4XM12	4.10
90	95	180	95	4XM12	4.58
110	115	200	95	4XM12	6.34
125	130	240	95	4XM12	7.80
160	165	270	95	4XM14	9.56
200	205	325	110	4XM14	15.11
225	230	325	135	4XM14	19.01
250	255	380	135	6XM16	27.30
280	285	380	135	6XM16	29.25
315	320	420	170	6XM16	43.88

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Fig.FA802-B



◆ Material Specification:

No.	Item Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Grip Tooth	Brass	
5	Bolt	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-1:1992
8	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings

◆ Dimensions(mm)

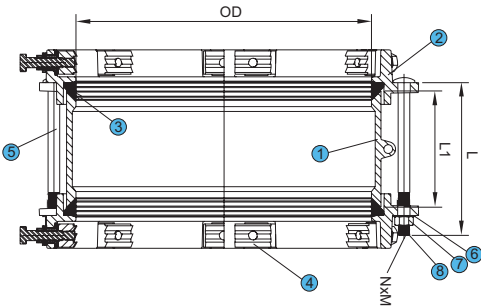
Size	Pipe OD	D	D2	b	L	L1	N x M	DIN EN	Weight
								PN10/PN16	kg
DN400	400	580	480	26.5	160	110	8xM16	•	68
DN500	500	715	609	28	180	115	10xM16	•	85
DN500	560	715	609	31	200	115	10xM16	•	93
DN600	630	840	720	26.5	180	120	10xM16	•	110

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Tensile Restrained Coupling for HDPE Pipe



Fig.FC802-B



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings

◆ Material Specification:

No.	Item Name	Material	Specification
1	Center Sleeve	Carbon Steel	S235JR
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Grip Tooth	Brass	
5	Bolt	Galvanized Steel	ISO898-1:1999
6	Washer	Galvanized Steel	
7	Nut	Galvanized Steel	ISO898-1:1992
8	Cap	Plastic	

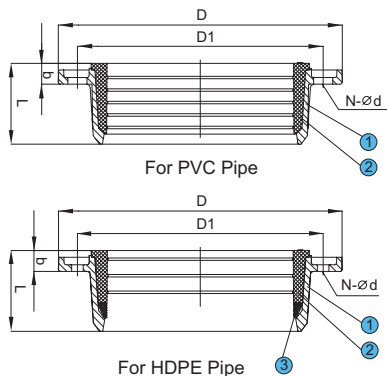
Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Dimensions(mm)

Pipe O.D	L	L1	NxM	Weight
				kg
OD400	240	152	8xM16	50
OD500	250	152	10xM16	72
OD560	250	152	10xM16	66
OD630	250	152	10xM16	90

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Fig.FA40



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	Seal Ring	Rubber	EPDM
3	Grip Ring	Brass	

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- EPDM or EPDM+Brass Seal Ring.
- Flange Drilling to ISO PN10/PN16.

◆ Dimensions(mm)

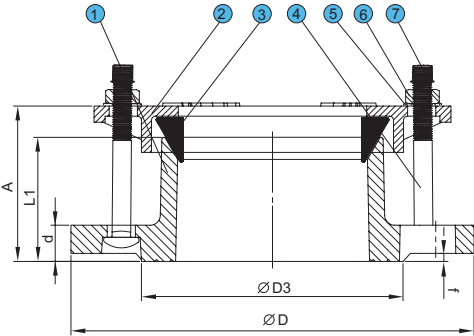
Size	Pipe OD	D	b	L	PN10		PN16		Weight(kg)	
					D1	N-Φd	D1	N-Φd	PVC	HDPE
DN40	50	165	19	48	110	4-19	110	4-19	1.74	1.79
DN50/DN65	63	165	19	53	125	4-19	125	4-19	1.84	1.90
DN60/DN65	63	185	19	53	135/145	4-19	135/145	4-19	1.72	1.78
DN60/DN65	75	185	19	57	135/145	4-19	135/145	4-19	1.89	1.96
DN80	75	200	19	57	160	8-19	160	8-19	2.46	2.54
DN80	90	200	19	63	160	8-19	160	8-19	2.46	2.57
DN100	110	220	19	63	180	8-19	180	8-19	3.09	3.24
DN125	125	250	19	72	210	8-19	210	8-19	4.14	4.46
DN125	140	250	19	72	210	8-19	210	8-19	4.32	4.83
DN150	160	285	19	87.5	240	8-23	240	8-23	5.45	6.07
DN200	200	340	20	93.5	295	8-23	295	12-23	6.25	7.14
DN200	225	340	20	93.5	295	8-23	295	12-23	7.18	8.11
DN250	250	400	22	98	350	12-23	355	12-28	9.73	10.93
DN300	315	455	24.5	115	400	12-23	410	12-28	14.04	15.44
DN350	355	520	26.5	115	460	16-23	470	16-28	25.00	26.80
DN400	400	580	28	128	515	16-28	525	16-31	21.80	23.54

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Flange Adaptor for PVC Pipe



Fig. FA50



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.

◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvanized Steel	ISO898-1:1999
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	ISO898-1:1992
7	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

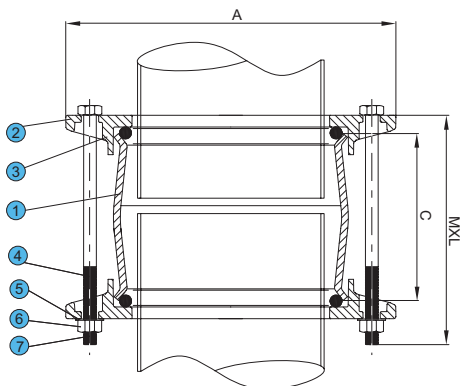
◆ Dimensions(mm)

Pipe OD	D	D3	A	L1	d	f	Bolt & Qty	Weight(kg)
63	175	99	155	63	18	3	4-M12	3
75	175	99	168	63	18	3	4-M12	3.4
90	190	131	185	68	18	3	4-M12	3.75
110	210	153	205	68	18	3	4-M12	4.5
160	275	201	260	68	18	3	4-M12	6.2
200	330	266	310	68	19	3	4-M12	9
225	330	266	325	68	19	3	4-M12	11.3
250	405	319	355	68	19	3	6-M12	15.5
315	455	370	425	88	20	4	6-M12	18.2

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Fig.FC50

For Water System



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Center Sleeve	Ductile Iron	GGG50
2	End Ring	Ductile Iron	GGG50
3	Rubber Seal	Rubber	EPDM
4	Bolt	Galvansized Steel	ISO898-1:1999
5	Washer	Galvansized Steel	
6	Nut	Galvansized Steel	ISO898-1:1992
7	Cap	Plastic	

◆ Features

- Ductile Iron GGG50 with Blue FBE Coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolt,washer,nut.
- EPDM or NBR rubber seal.

◆ Dimensions(mm)

PVC Pipe OD	A(mm)	C(mm)	Bolts No.	MXL	Weight(kg)
63	136	125	2	M12X180	1.70
75	150	125	2	M12X180	2.12
90	164	125	3	M12X180	2.48
110	185	145	3	M12X200	3.31
125	205	145	3	M12X200	3.69
140	224	153	4	M12X200	4.66
160	240	185	4	M12X240	6.57
180	275	181	4	M12X240	7.50
200	288	185	6	M12X240	8.02
250	339.5	202	6	M12X260	13.90
315	412	202	6	M12X260	17.14
400	495	202	8	M12X260	21.79
500	592	202	10	M12X260	26.76

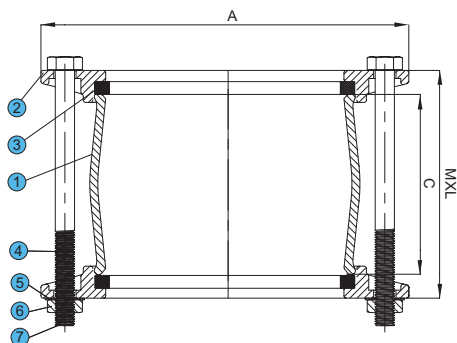
Hiwa product specification in this catalogue for reference only,the product construction subject to Hiwa's design,Hiwa reserve the right to change the design,construction, specification without prior notice and without incurring any obligation. Any definite information kindly contact with Hiwa directly.

Gibault Joint for PVC Pipe



Fig.FC60

For Irrigation System



◆ Features

- Cast Iron GG20 with Black Bitumen Painting.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel, bolts,washers,nuts
- EPDM or NBR rubber seals .

◆ Material Specification:

No.	Parts Name	Material	Specification
1	Center Sleeve	Cast Iron/Ductile Iron	GG20/GGG50
2	End Ring	Cast Iron/Ductile Iron	GG20/GGG50
3	Seal Ring	Rubber	EPDM
4	Bolt	Galvanized Steel	
5	Washer	Galvanized Steel	
6	Nut	Galvanized Steel	
7	Cap	Plastic	

◆ Dimensions(mm)

PVC Pipe OD	A	C	Bolts No.	MXL	Weight(kg)
50	130	80	2	M10X160	2.2
63	137	100	2	M10X160	2.2
75	149	100	2	M10X160	2.7
90	164	120	2	M10X180	3
110	184	120	3	M10X180	4.5
125	199	120	3	M12X190	6.5
140	214	120	3	M12X190	7
160	234	140	3	M12X210	8
180	254	140	3	M12X210	10
200	274	140	3	M12X210	12
250	341	160	4	M14X240	19
315	406	160	4	M14X240	25
400	495	160	6	M14X240	30
500	600	160	6	M14X240	40

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Multifunctional

Tapping Saddle

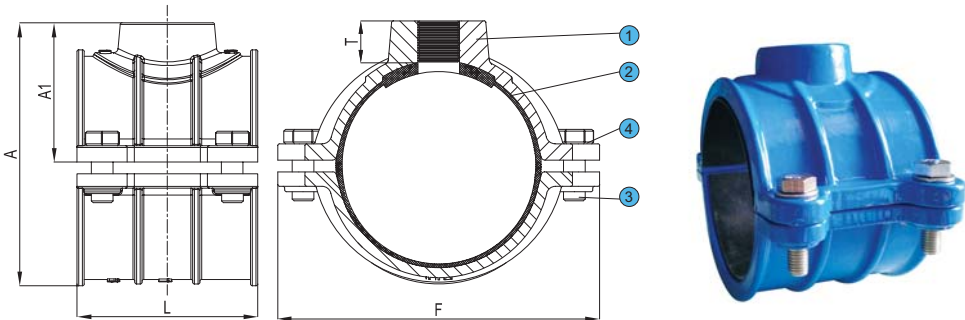
For PVC,DI,STEEL,AC Pipes



Saddle Clamp for PVC Pipe



Fig. T501



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .

◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	Gasket	Rubber	EPDM
3	Bolt	Galvanized Steel	ISO898-1:1999
4	Washer	Galvanized Steel	

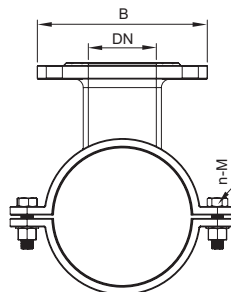
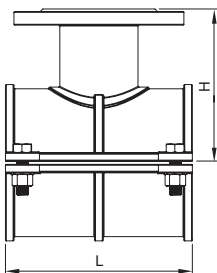
Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Dimensions(mm)

Pipe OD	D	L	A	A1	F	T	Bolt Size	Weight(kg)
40	3/4"-1"	70	74	43	100	18	M8*30	1.1
50	3/4"-1"	80	84	48	114	18	M10*35	1.7
63	3/4"-2"	90	97	54	127	18	M10*35	1.8
75	3/4"-2"	100	110	61	144	18	M10*35	2.2
90	3/4"-2"	100	124	70	156	20	M10*35	2.5
110	3/4"-2"	100	144	80	178	20	M10*35	3
125	3/4"-2"	110	160	90	197	20	M12*35	3.3
140	3/4"-2"	125	176	97	212	20	M12*35	4.5
160	3/4"-2"	125	198	109	233	20	M12*35	5.2
200	3/4"-3"	140	240	131	282	20	M14*40	6.6
225	3/4"-2"	125	266	144	307	20	M14*40	9.5
250	3/4"-3"	140	291	156	334	20	M14*40	10.5
315	3/4"-3"	140	356	189	400	20	M14*40	14.5

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Fig. T502



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	Gasket	Rubber	EPDM
3	Bolt	Galvanized Steel	ISO898-1:1999
4	Washer	Galvanized Steel	
5	Nut	Galvanized Steel	ISO898-1:1992

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolts, nuts.
- EPDM or NBR rubber seals .

◆ Dimensions(mm)

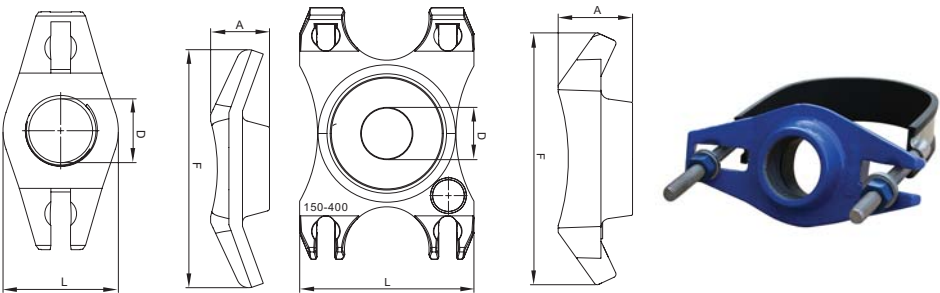
Pipe OD	D	L	H	B	n-M
OD90	DN50	180	130	165	2-M14
OD90	DN60/65	180	130	185	2-M14
OD110	DN50	200	130	165	2-M14
OD110	DN60/65	200	130	185	2-M14
OD110	DN80	200	140	200	2-M14
OD110	DN100	220	150	220	2-M14
OD160	DN50	185	170	165	2-M16
OD160	DN60/65	185	180	185	2-M16
OD160	DN80	185	190	200	2-M16
OD160	DN100	185	200	220	2-M16
OD200	DN50	220	195	165	2-M16
OD200	DN60/65	220	215	185	2-M16
OD200	DN80	220	225	200	2-M16
OD200	DN100	220	230	220	2-M16
OD200	DN150	295	250	285	3-M16
OD225	DN50	220	195	165	2-M16
OD225	DN60/65	220	215	185	2-M16
OD225	DN80	220	225	200	2-M16
OD225	DN100	220	230	220	2-M16
OD250	DN50	200	250	165	2-M16
OD250	DN60/65	200	250	185	2-M16
OD250	DN80	200	255	200	2-M16
OD250	DN100	220	265	220	2-M16
OD315	DN50	200	290	165	2-M16
OD315	DN60/65	200	295	185	2-M16
OD315	DN80	200	300	200	2-M16
OD315	DN100	220	310	220	2-M16
OD400	DN50	225	340	165	2-M16
OD400	DN60/65	225	350	185	2-M16
OD400	DN80	225	360	200	2-M16
OD400	DN100	225	370	220	2-M16

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Universal Tapping Saddle-Thread Outlet



Fig. T503



◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Stainless Steel bolts,nuts,washers.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.

◆ Material Specification:

No.	Parts Name	Material	Specification
1	Headstock	Ductile Iron	GGG50
2	Gasket	Rubber	EPDM
3	*Band	Stainless Steel+Rubber	ISO898-1:1999
4	Washer	Stainless Steel	
5	Nut	Stainless Steel	ISO898-1:1992

*Definite "Band" Information kindly refer to page 42.

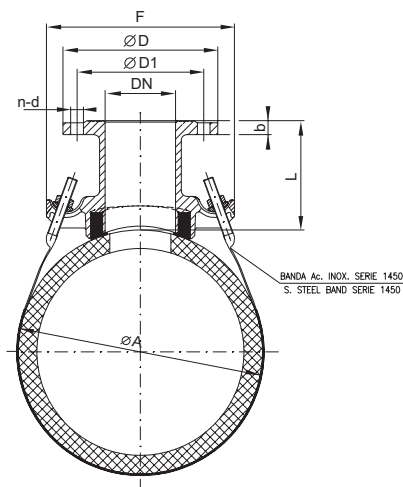
◆ Dimensions(mm)

Headstock	D	A	F	L	Weight(kg)
50-200	3/4"	45	150	70	1.1
50-200	1"	45	150	70	1.1
50-200	1 1/4"	45	150	70	1.1
50-200	1 1/2"	45	150	70	1.1
100-300	1"	45	195	92	2.7
100-300	1 1/4"	45	195	92	2.7
100-300	1 1/2"	45	195	92	2.7
100-300	2"	45	195	92	2.7
150-400*	2"	65	216	157	5.9
150-400*	2 1/2"	65	216	157	5.9
150-400*	3"	65	216	157	5.9

*150-400 headstock with double band.

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Fig. T504



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	Gasket	Rubber	EPDM
3	Bolt	Galvanized Steel	ISO898-1:1999
4	Washer	Galvanized Steel	
5	Nut	Galvanized Steel	ISO898-1:1992
6	*Band	Stainless Steel	AISI304

*Definite "Band" Information kindly refer to page 42.

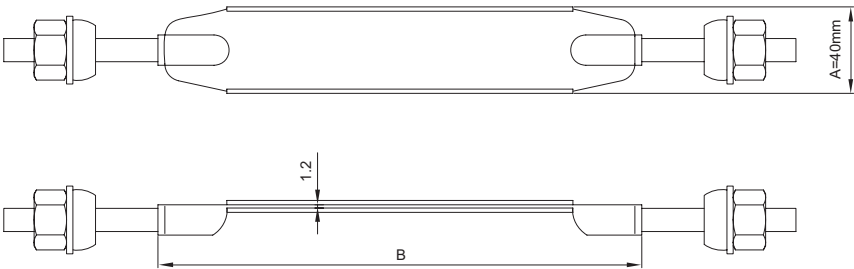
◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Stainless Steel bolts,nuts,washers.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.

◆ Dimensions(mm)

DN	PN	Pipe OD		D	b	D1	n-d	L	F	SS Band Qty.	Weight(kg)
DN50	10/16	80	700	165	18	125	4x18	155	217	2	5.5
DN80	10	125	700	200	20	160	4x18	167	247	2	8.5
DN80	16	125	700	200	20	160	8x18	167	247	2	8.5
DN100	10/16	150	500	220	20	180	8x18	163	267	2	10.5
DN150	10/16	500	900	285	22	240	8x25	177	378	3	21
DN150	10/16	300	500	285	22	240	8x23	171	378	3	21
DN200	10	450	1300	540	24	295	8x23	185	432	4	35
DN200	16	450	1300	540	24	295	12x25	185	432	4	35

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◆ **Technical Specifications:**

- Stainless Steel AISI304 with 40mm Width & 1.25mm thickness.
- Stainless Steel Studs & Nuts
- With supporting hemispheres and studs.
- Protecting gasket for tube of EPDM.
- Recommended for cast iron pipes and pipes of fibre cement.

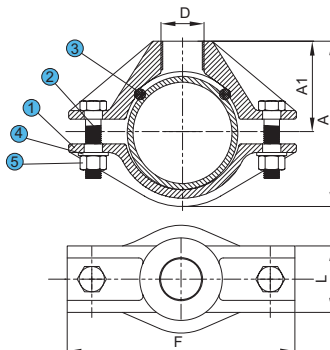


◆ **Dimensions(mm)**

Belt Length B	O.D Range	Headstock			Weight(kg)
		50-200	100-300	150-400	
160	60-77	•			0.32
200	77-95	•			0.34
270	98-119	•			0.39
295	125-135	•	•		0.44
368	139-160	•	•		0.48
392	150-180	•	•		0.50
450	170-195	•	•		0.53
530	200-230		•	•	0.57
610	230-250		•	•	0.61
675	250-280		•	•	0.66
770	285-315		•	•	0.72
860	315-340		•	•	0.78
965	355-380		•	•	0.85
1060	385-410			•	0.91
1135	410-435			•	0.93

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Fig. T505



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Ductile Iron	GGG50
2	Bolt	Rubber	EPDM
3	"O" ring	Galvanized Steel	ISO898-1:1999
4	Washer	Galvanized Steel	
5	Nut	Galvanized Steel	ISO898-1:1992

*Other Fasteners like Zinc Plated or PTFE coated are all available on request.

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Dacromet Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.

◆ Dimensions(mm)

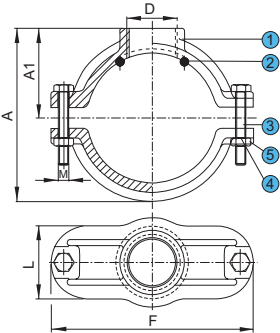
Pipe OD	D	L	A	A 1	F	Bolt Size	Weight(kg)
66	3/4"	80	118	65	155	M12x90	2.50
	1"	80	118	65	155	M12x90	2.50
	1 1/4"	80	118	65	155	M12x90	2.50
	1 1/2"	80	118	65	155	M12x90	2.50
98	3/4"	80	138.5	75	175	M12x90	2.70
	1"	80	138.5	75	175	M12x90	2.70
	1 1/4"	80	138.5	75	175	M12x90	2.70
	1 1/2"	80	138.5	75	175	M12x90	2.70
118	1"	92	165	91	195	M12x90	2.90
	1 1/4"	92	165	91	195	M12x90	2.90
	1 1/2"	92	165	91	195	M12x90	2.90
	2"	92	165	91	195	M12x90	2.90
144	1"	92	193	104	220	M12x90	3.10
	1 1/4"	92	193	104	220	M12x90	3.10
	1 1/2"	92	193	104	220	M12x90	3.10
	2"	92	193	104	220	M12x90	3.10
170	1"	92	209	107	245	M12x100	3.20
	1 1/4"	92	209	107	245	M12x100	3.20
	1 1/2"	92	209	107	245	M12x100	3.20
	2"	92	209	107	245	M12x100	3.20
222	1"	92	276	143	276	M12xM40	3.70
	1 1/4"	92	276	143	276	M12xM40	3.70
	1 1/2"	92	276	143	276	M12xM40	3.70
	2"	92	276	143	276	M12xM40	3.70
274	1 1/4"	122	333	174	330	M12x160	6.10
	1 1/2"	122	333	174	330	M12x160	6.10
	2"	122	333	174	330	M12x160	6.10
	2 1/2"	122	333	174	330	M12x160	6.10
326	3"	122	333	174	330	M12x160	6.10
	1 1/4"	122	385	200	330	M12x160	6.30
	1 1/2"	122	385	200	330	M12x160	6.30
	2"	122	385	200	330	M12x160	6.30
326	2 1/2"	122	385	200	330	M12x160	6.30
	3"	122	385	200	330	M12x160	6.30

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Saddle Clamp for PVC Pipe



Fig. T506



◆ Features

- Cast Iron GG20 with Black Bitumen Painting.
- PN10,PN16 working pressure.
- Equipped with Galvanized Steel bolt,washer,nut.
- EPDM or NBR rubber seal.

◆ Material Specification:

No.	Parts Name	Material	Specification
1	Body	Cast Iron	GG20
2	Gasket	Rubber	EPDM
3	Bolt	Galvanized Steel	ISO898-1:1999
4	Washer	Galvanized Steel	
5	Nut	Galvanized Steel	ISO898-1:1992

*Other Fasteners like Zinc Plated or PTFE coated are all available on request.

◆ Dimensions(mm)

Pipe OD	F	D	L	A	A 1	Bolt Size	Weight(kg)
32	90	1/2"-3/4"	44	57	32	M8 x 40	0.43
40	95	3/4"	48	65	35	M8 x 40	0.50
		1"	48	65	42		0.62
50	120	3/4"-1"	62	77	42	M10 x 50	0.94
63	132	3/4"-1"	62	89.5	47.5	M10 x 50	1.10
75	146	3/4"-1"	62	106	55	M10 x 50	1.25
		1 1/4"-1 1/2"	68	107	56		1.32
90	158	3/4"-1"	62	121	62	M10 x 50	1.50
		1 1/4"-1 1/2"	68	123	64	M10 x 70	1.70
110	180	3/4"-1 1/2"	70	151	80	M10 x 70	2.00
	196	2"-3"	70	151	80		3.00
125	194	3/4"-1 1/2"	70	166	86	M10 x 70	2.40
		2"-3"	70	168	88		3.00
140	215	3/4"-1 1/2"	70	186	98	M10 x 70	2.70
		2"-3"	70	186	100		3.00
160	235	3/4"-1 1/2"	70	194	106	M10 x 70	3.00
		2"-3"	70	198	110		4.00
180	255	1"-1 1/2"	70	223	115	M10 x 50	3.50
		2"-3"	70	223	115		4.00
200	275	3/4"-1 1/2"	70	241	123	M10 x 70	4.00
		2"-3"	70	243	125		5.00
250	340	1"-1 1/2"	70	297	150	M10 x 50	6.00
		2"-3"	80	297	150		7.50
315	415	2"-3"	75	382.5	195	M12 x 90	10.50

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Diverse

Fittings For PVC Pipe



Double Socket 11.25° Bend

Fig.P214



φd	L	H
50	90	100.7
63	95	108.6
75	100	119.6
90	105	116.5
110	115	130.4
125	125	151.4
140	130	141.4
160	145	159.3
180	155	186.3
200	155	177.3
225	155	180.2
250	175	204
280	185	227.9
315	190	229.9

Double Socket 22.5° Bend

Fig.P213



φd	L	H
50	90	113.8
63	95	112.8
75	100	119.8
90	105	126.8
110	115	136.8
125	125	152.7
140	130	155.7
160	145	174.7
180	155	211.6
200	155	188.7
225	155	188.7
250	175	209.6
280	185	235.6
315	190	258.5

Double Socket 45° Bend

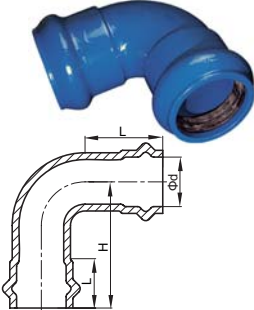
Fig.P212



φd	L	H
50	90	112.7
63	95	125.4
75	100	125
90	105	133
110	115	153
125	125	168
140	130	178
160	145	201
180	155	222.7
200	155	213
225	155	228.4
250	175	260
280	185	292
315	190	298

Double Socket 90° Bend

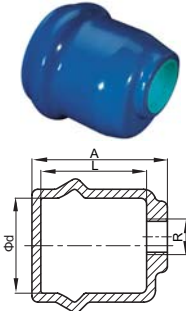
Fig.P211



φd	L	H
50	90	140
63	95	150
75	100	163
90	105	175
110	115	195
125	125	212.5
140	130	217.5
160	145	255
180	155	280
200	155	290
225	155	295
250	175	332.5
280	185	360
315	190	390

Caps-Threaded Branch

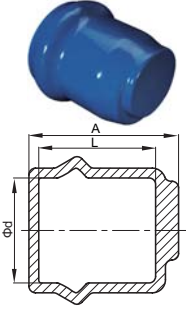
Fig.P611S



φd	R	A	L
50	1"	110	90
63	1"	115	95
75	1"	125	100
90	1"	130	105
110	2"	140	115
125	2"	165	125
140	2"	160	130
160	2"	175	145
180	2"	190	155
200	2"	190	155
225	2"	190	155
250	2"	205	175
280	2"	225	185
315	2"	225	190

Caps

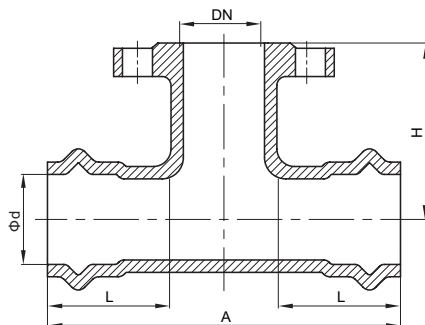
Fig.P611



φd	A	L
50	110	90
63	115	95
75	125	100
90	130	105
110	140	115
125	165	125
140	160	130
160	175	145
180	190	155
200	190	155
225	190	155
250	205	175
280	225	185
315	225	190

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FITTINGS FOR PVC PIPE



Double Socket Tee -Flanged Branch Fig.P312F

◆ **Dimensions(mm)**

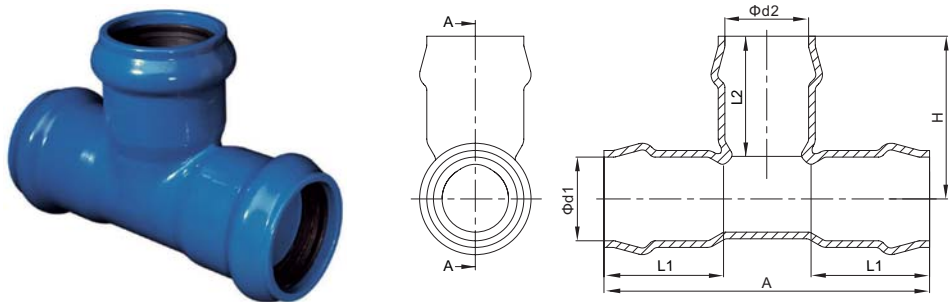
D N	φd	A	L	H
40	50	240	90	135
40	63	240	95	130
50	63	250	95	140
60	63	270	95	135
40	75	266	100	135
50	75	276	100	140
60	75	286	100	140
65	75	291	100	140
40	90	270	105	160
50	90	280	105	160
60	90	290	105	160
65	90	295	105	160
80	90	310	105	160
40	110	290	115	170
50	110	300	115	170
60	110	310	115	175
65	110	315	115	170
80	110	330	115	170
100	110	350	115	170
40	125	320	125	160
50	125	330	125	160
60	125	340	125	160
80	125	360	125	170
100	125	380	125	180
125	125	405	125	180
40	140	310	130	175
50	140	320	130	176
60	140	330	130	200
65	140	335	130	200
80	140	350	130	190

D N	φd	A	L	H
100	140	370	130	200
125	140	395	130	205
40	160	340	145	200
50	160	360	145	200
60	160	360	145	215
65	160	365	145	215
80	160	390	145	200
100	160	400	145	210
125	160	425	145	220
150	160	450	145	220
60	180	410	155	210
100	180	450	155	210
150	180	500	155	220
200	180	550	155	240
50	200	380	155	220
60	200	390	155	220
80	200	410	155	223
100	200	430	155	240
125	200	455	155	230
150	200	480	155	270
200	200	534	155	280
60	225	390	155	240
80	225	410	155	250
100	225	430	155	250
125	225	455	155	245
150	225	480	155	250
200	225	530	155	250
60	250	430	175	250
80	250	450	175	250
100	250	470	175	255

D N	φd	A	L	H
150	250	520	175	265
200	250	570	175	275
250	250	620	175	285
80	280	470	185	280
100	280	490	185	290
150	280	540	185	290
200	280	590	185	285
250	280	640	185	290
80	315	480	190	305
100	315	500	190	310
150	315	550	190	310
200	315	600	190	290
250	315	650	190	305
300	315	700	190	310
80	355	550	205	330
100	355	570	205	330
150	355	620	205	330
200	355	670	205	330
250	355	720	205	350
300	355	770	205	350
350	355	820	205	350
100	400	580	230	350
150	400	630	230	350
200	400	680	230	350
300	400	780	230	350
400	400	880	230	360
80	450	560	230	340
100	450	580	230	355
150	450	630	230	360
200	450	680	230	365

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FITTINGS FOR PVC PIPE



All Socket Tee Fig.P311

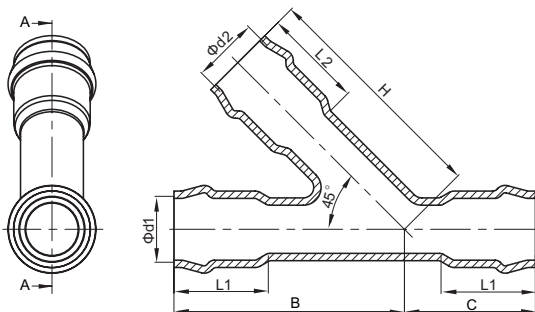
◆ Dimensions(mm)

Φd1	Φd2	A	L1	H	L2
63	50	245	95	125	90
63	63	255	95	125	95
75	63	275	100	135	95
75	75	291	100	143	100
90	63	275	105	145	95
90	75	290	105	150	100
90	90	308	105	155	105
110	63	300	115	155	95
110	75	315	115	165	100
110	90	328	115	165	105
110	110	345	113	175	113
125	63	340	125	155	95
125	75	345	125	163	100
125	90	360	125	165	105
125	110	375	125	175	115
125	125	393	125	190	125
140	63	325	130	170	95
140	75	335	130	175	100
140	90	350	130	180	105
140	110	370	130	185	115
140	125	370	130	205	125
140	140	390	130	200	130
160	63	350	145	180	95
160	75	365	145	190	100
160	90	380	145	190	105
160	110	400	140	200	115
160	125	415	145	210	125
160	140	425	145	210	130
160	160	446	140	225	140
180	110	440	155	210	115
180	140	465	155	210	130
180	160	480	155	230	145
180	180	500	155	250	155
200	75	390	155	210	100
200	90	410	155	210	105
200	110	430	155	220	115

Φd1	Φd2	A	L1	H	L2
200	125	440	155	230	125
200	140	455	155	230	130
200	160	480	155	245	140
200	180	510	155	260	155
200	200	520	155	260	155
225	90	410	155	215	105
225	110	430	155	230	115
225	125	450	155	245	125
225	140	455	155	240	130
225	160	480	155	255	145
225	180	490	155	275	155
225	200	520	155	270	155
225	225	540	155	270	155
250	90	450	175	235	105
250	110	470	175	245	115
250	140	510	175	260	130
250	160	520	175	270	145
250	200	560	175	285	155
250	250	605	175	305	175
280	90	490	185	250	105
280	110	510	185	260	115
280	160	560	185	285	145
280	200	610	185	300	155
280	225	620	185	300	155
280	250	655	185	320	175
280	280	675	185	340	185
315	90	480	190	265	105
315	110	500	190	275	115
315	140	540	190	290	130
315	160	550	190	300	145
315	200	610	190	330	155
315	225	610	190	315	155
315	250	640	190	355	175
315	280	665	190	355	185
315	315	700	190	350	190

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FITTINGS FOR PVC PIPE



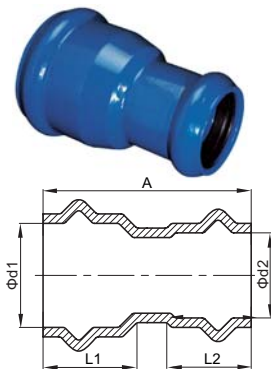
All Socket Tee 45° Fig.P312

◆ Dimensions(mm)

Φd1	Φd2	B	C	L1	H	L2
63	63	220	125	95	225	95
90	90	235	140	105	235	105
110	90	250	140	115	250	105
110	110	270	155	115	270	115
140	90	285	145	130	265	105
140	110	300	160	130	280	115
140	140	315	180	130	315	130
160	90	305	145	145	280	105
160	110	320	155	145	295	115
160	140	355	175	145	330	130
160	160	345	190	145	345	145
225	90	365	145	155	325	105
225	110	380	160	155	335	115
225	140	400	180	155	375	130
225	160	415	190	155	390	145
225	225	450	230	155	450	155
280	110	440	170	185	375	115
280	160	470	200	185	430	145
280	225	315	240	185	490	155
280	280	550	275	185	550	185
315	90	430	205	190	385	105
315	110	460	205	190	410	115
315	160	510	205	190	480	145

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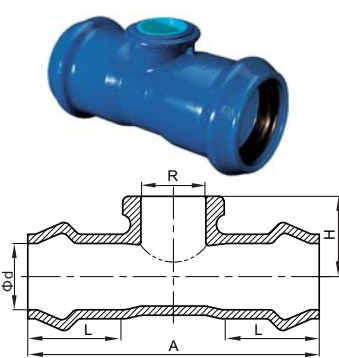
FITTINGS FOR PVC PIPE



Double Socket Taper Fig.P511

◆ **Dimensions(mm)**

Φd1	Φd2	A	L1	L2
63	50	200	95	90
75	63	210	100	95
90	63	215	105	95
90	75	225	105	100
110	63	240	115	95
110	75	250	115	100
110	90	250	115	105
125	63	280	125	95
125	75	290	125	100
125	90	290	125	105
125	110	305	125	115
140	90	275	130	105
140	110	280	130	115
140	125	290	130	125
160	90	290	145	105
160	110	300	145	115
160	125	310	145	125
160	140	310	145	130
180	140	350	155	130
180	160	350	155	145
200	90	310	155	105
200	110	310	155	115
200	140	340	155	130
200	160	340	155	145
200	180	360	155	155
225	110	315	155	115
225	140	325	155	130
225	160	340	155	145
225	200	350	155	155
250	110	350	175	115
250	160	370	175	145
250	200	390	175	155
250	225	400	175	155
280	160	390	185	145
280	225	410	185	155
280	250	420	185	175
315	200	400	190	155
315	225	400	190	155
315	250	420	190	175



Double Socket Collar-Threaded Branch Fig.P312S

Φd	R	A	L	H
50	1"	220	90	60
63	1"	230	95	60
63	1 1/4"	240	95	60
63	1 1/2"	245	95	60
63	2"	255	95	60
75	1"	246	100	64
75	1 1/4"	256	100	64
75	1 1/2"	260	100	64
75	2"	275	100	64
90	1"	250	105	80
90	1 1/4"	260	105	80
90	1 1/2"	265	105	80
90	2"	275	105	80
90	3"	305	105	95
110	1"	270	115	90
110	1 1/4"	280	115	90
110	1 1/2"	285	115	90
110	2"	295	115	90
110	3"	325	115	120
110	4"	355	115	115
125	1"	310	125	95
125	1 1/4"	310	125	95
125	1 1/2"	320	125	95
125	2"	330	125	100
140	1"	290	130	105
140	1 1/4"	300	130	105
140	1 1/2"	305	130	105
140	2"	315	130	105
160	1"	320	145	115
160	1 1/4"	330	145	115
160	1 1/2"	335	145	115
160	2"	345	145	115
160	3"	375	145	135
180	1"	370	155	130
180	2"	390	155	130
200	1"	360	155	135
200	2"	380	155	140
225	1"	350	155	150
225	1 1/4"	360	155	150
225	1 1/2"	365	155	150
225	2"	375	155	150
250	1"	390	175	160
250	2"	415	175	165
280	2"	460	185	175
315	2"	450	190	195

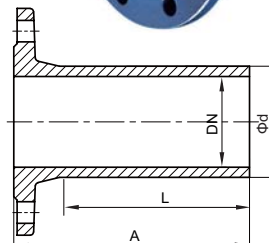
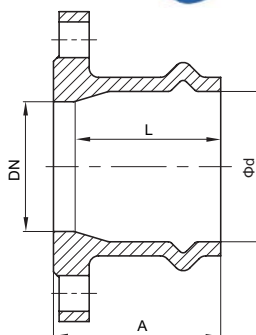
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FITTINGS FOR PVC PIPE

Flanged Socket Fig.P111

◆ Dimensions(mm)

DN	Φd	A	L
40	50	100	90
50	63	100	95
60	63	110	95
60	75	110	100
65	63	110	95
65	75	110	100
80	75	120	100
80	90	120	105
80	110	130	115
80	160	200	145
100	90	120	105
100	110	130	115
100	125	145	125
100	140	175	130
100	160	190	145
125	110	145	115
125	125	145	125
125	140	145	130
150	110	150	115
150	140	160	130
150	160	170	145
150	180	180	155
200	160	185	145
200	180	190	155
200	200	192	155
200	225	190	155
200	219	190	155
250	250	220	175
250	280	230	185
300	315	240	190
300	355	260	205



Flanged Spigot Fig.P112

◆ Dimensions(mm)

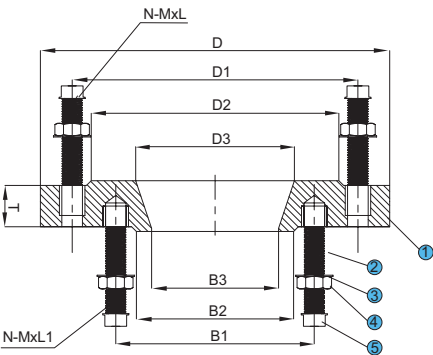
DN	Φd	A	L
40	50	120	90
50	63	125	95
65	75	130	100
80	90	125	95
100	90	130	95
100	110	130	95
125	125	170	135
125	140	170	135
150	160	160	120
200	180	170	130
200	200	170	130
200	225	205	170
250	250	200	150
250	280	245	200
300	315	200	155

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DI Fittings-Reducer Flange



Fig.SRF10



◆ Material Specification:

No.	Parts Name	Material	Specification
1	Flange	Ductile Iron	GGG50
2	Bolt	Galvanized Steel	ISO898-1:1999
3	Washer	Galvanized Steel	
4	Nut	Galvanized Steel	ISO898-1:1992
5	Cap	Plastic	

Other Fasteners like Dacromet Coated Steel or Teflon Coated Stainless Steel are all available on request.

◆ Dimensions(mm)

Size	PN	D	D1	D2	D3	N-MXL	B1	B2	B3	N-MXL1	T	Weight(kg)
DN80X50	PN16/10	200	160	132	82	8-M16X75	125	99	52	4-M16X75	20	4.9
DN100X50	PN16/10	220	180	156	104	8-M16X75	125	99	52	4-M16X75	20	5.8
DN100X80	PN16/10	220	180	156	104	8-M16X75	160	132	82	8-M16X75	20	9.3
DN150X50	PN16/10	285	240	211	156	8-M20X75	125	99	52	4-M16X75	20	9.9
DN150X80	PN16/10	285	240	211	156	8-M20X75	160	132	82	8-M16X75	20	7.9
DN150X100	PN16/10	285	240	211	156	8-M20X75	180	156	104	8-M16X75	20	8.4
DN200X150	PN16	340	295	266	208	12-M16X75	240	211	156	8-M20X75	22	13.9
DN250X150	PN16	400	355	319	258	12-M16X75	240	211	156	8-M20X75	24	17.0
DN300X200	PN16	455	410	370	308	12-M16X75	295	266	208	12-M20X75	24	19.4

◆ Features

- Ductile Iron GGG50 material with FBE coated.
- PN10,PN16 working pressure.
- Equipped with Dacromet Steel bolts, nuts.
- EPDM or NBR rubber seals .
- High Tolerance Mechanical Pipe Fittings.
- Angular deflection +/- 3°.



Hiwa product specification in this catalogue for reference only,the product construction subject to Hiwa's design,Hiwa reserve the right to change the design,construction, specification without prior notice and without incurring any obligation. Any definite information kindly contact with Hiwa directly.



Huihua Valve Industry Co.

Office: 18th Floor, Block B International Trade Center 107 Liuquan Road, Zibo City Shandong China P.C.: 255000

ZiBo Factory : No.36 MinAn Rd., ZiBo Hi-Tech Industry Zone, ZiBo Shandong China PC.: 255088

Tianjin Factory: No.2 Yingye Rd., Huangtai Ind., Park, Xiaozhan Town, Jinnan District Tianjin City China.
PC.: 300353

Foundry: Qianjin Village Xiaozhan Town Jinnan District Tianjin City China PC.: 300353.

Tel: 86 533 6077200 6077206

Fax: 86 533 6077233 6077244

Web: <http://www.hiwaflow.com>

E-mail: sales@hiwaflow.com



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