



AFD10 SERIES



AFD20 SERIES

FEATURES

- AS/NZS 4020 approved FBE coating
- Ductile iron body
- Teflon® coated stainless steel tie rods
- Fully restrained and unrestrained configurations
- Longitudinal \pm 25mm adjustment

OPTIONS

- NBR seal
- Wide selection of fastener materials and finishes:
 - Galvanized fasteners
 - 316 or 304 stainless steel
 - Dacromet® coating on fasteners
 - Tensile steel 4.8 or 8.8
- Flange drilling connections to suit a wide range of flanging standards:
 - AS2129 T/ E
 - ANSI 150
 - EN 1092
- PN25 pressure rating

TYPICAL APPLICATIONS

- The AFD10 & AFD20 dismantling joints are designed to simplify the installation, maintenance and removal of:
 - Isolation valves
 - Non-return valves
 - Control valves
 - Metering & associated equipment
 - Pumps & associated equipment
- The AFD10 & AFD20 dismantling joints are used in many areas, including:
 - Pumping stations
 - Water treatment plants
 - Sewage treatment plants
 - Industrial pipelines
- The AFD10's are a traditional dismantling joint, supplied with a complete set of tie rods as 100% restrained, though on request can be supplied as either 25% or 50% restrained.
- The AFD20 dismantling joints with fewer tie rods than the AFD10 has the advantage of easy and fast installation while still offering a secure and rigid dismantling joint.

TECHNICAL DATA

Size Range:	DN80 - DN2000
Pressure Classes:	PN16
Coating:	AS/NZS 4020 Approved, Fusion Bonded Epoxy
Temperature Range:	-10°C to 80°C
Flange Drilling Connection:	AS/NZS 4087 CL16

AFD10 & AFD20 SERIES

DISMANTLING JOINTS
DN80 - DN2000



DESCRIPTION

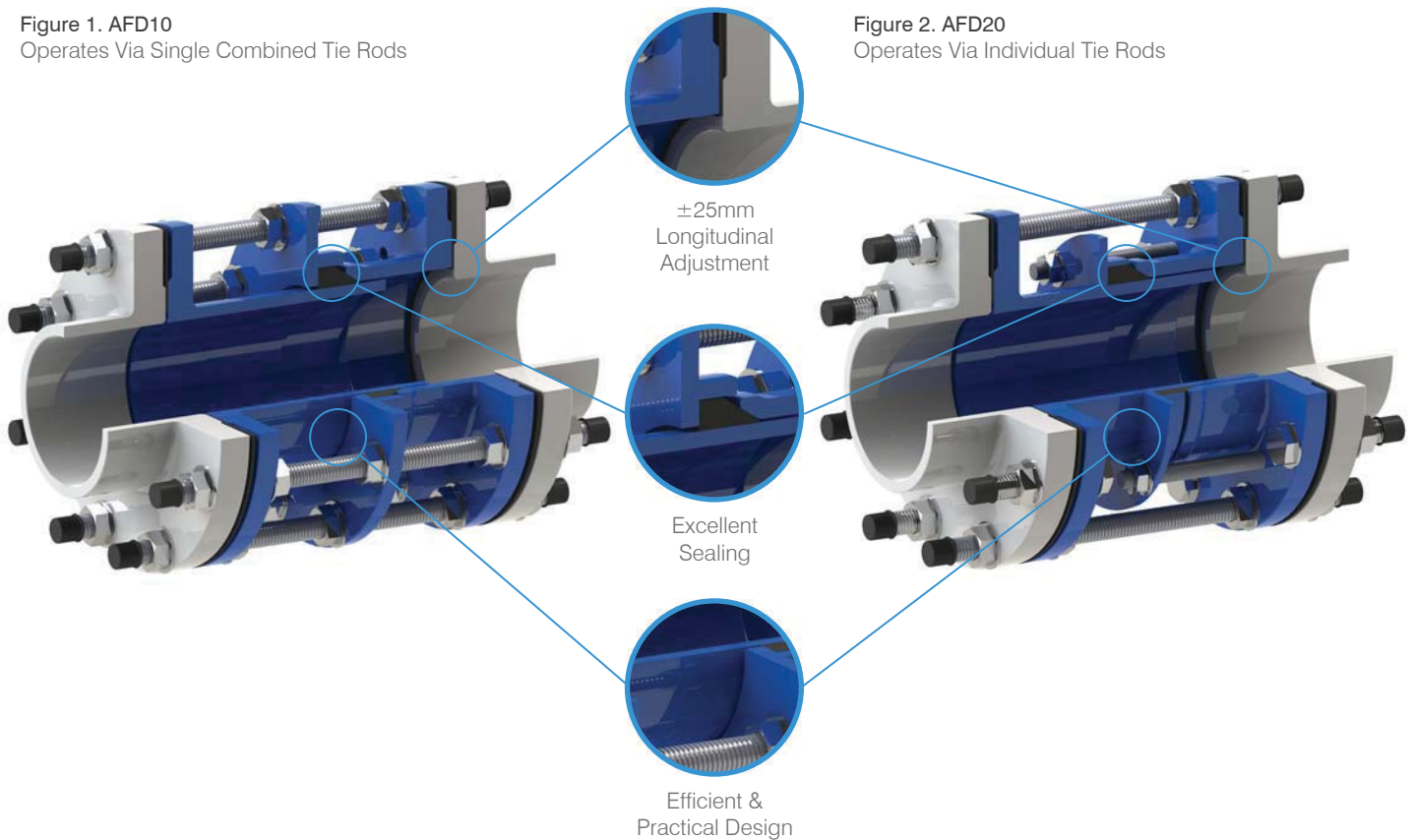
AVFI's AFD10 and AFD20 dismantling joints are double flanged that provides easy installation and disassembly of flanged pipe and associated equipment including valves, meters and pumps. The AFD10 and AFD20 are widely used for a variety of applications in the water and wastewater sectors, mining and industrial sectors.

The operating principle behind the AFD10 and AFD20 is that the centre sealing flange is drawn closer to the mating flange, thereby compressing the rubber sealing ring to achieve a complete seal. So simple, yet so efficient and practical.

The AFD10 features a single tie rod connecting all three flanges. The AFD20 features an end to end tie rod and a separate tie rod for the sealing flange. It is recommended to check with your local authority too confirm which series is permitted for your application.

Figure 1. AFD10
Operates Via Single Combined Tie Rods

Figure 2. AFD20
Operates Via Individual Tie Rods



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MATERIAL SPECIFICATIONS & PARTS LIST

NO.	DESCRIPTION	MATERIAL
1	Flanged Spigot Long	Ductile Iron (fusion bonded epoxy coated)
2	Flanged Spigot Short	Ductile Iron (fusion bonded epoxy coated)
3	Sealing Flange	Ductile Iron (fusion bonded epoxy coated)
4	Sealing Ring	EPDM
5	Tie Rod	Stainless Steel (Teflon® coated)
6	Washer	Stainless Steel 316
7	Nut	Stainless Steel 316

NOMINAL PRESSURE		PN16
Test:	Strength Test	24Bar
Pressure:	Sealing Test	17.6Bar
Max Working Temperature:		-10°C to +80°C

DIMENSIONAL DRAWINGS

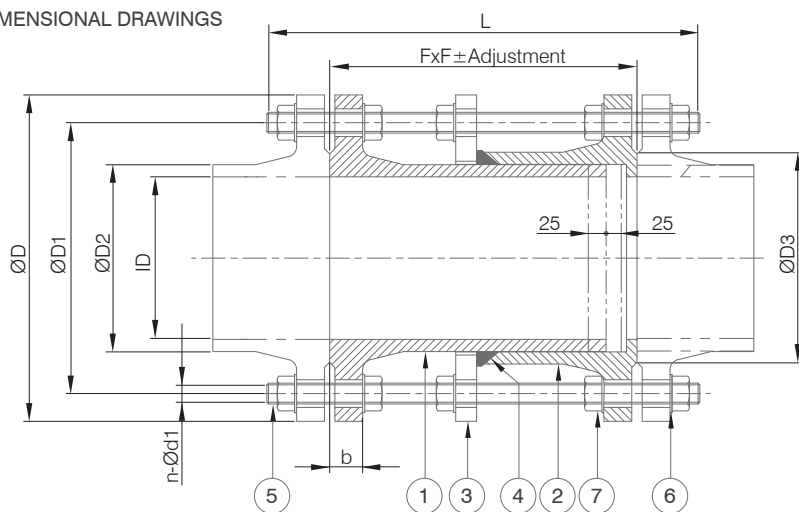


Figure 3. Restrained AFD10 Dismantling Joint

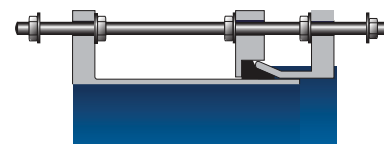
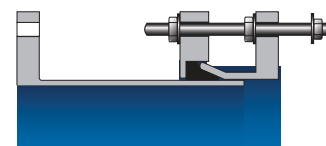


Figure 4. Unrestrained AFD10 Dismantling Joint



DIMENSIONS (MM)

AFD10 DN80 - DN1200						FLANGE DRILLING AS/NZS 4087 CL16					NO. OF TIE RODS		
DN	ID	L	FxF	Adjustment	b	ØD	ØD1	ØD2	ØD3	n-Ød1	25% Restrained	50% Restrained	100% Restrained
80	83	340	205	±25	19	185	146	98	122	4-M16			4
100	101	340	205	±25	19	215	178	118	154	4-M16			4
150	154	340	205	±25	19	280	235	170	186	8-M16		4	8
200	206	350	215	±25	20	335	292	222	211	8-M16		4	8
250	258	380	220	±25	22	405	356	274	328	8-M20		4	8
300	307	400	240	±25	25	455	406	326	378	12-M20	3	6	12
350	359	410	240	±25	27	525	470	378	438	12-M24	3	6	12
375	400	430	250	±25	28	550	495	406	463	12-M24	3	6	12
400	408	430	250	±25	28	580	521	429	489	12-M24	3	6	12
450	456	450	265	±25	30	640	584	480	532	12-M24	3	6	12
500	508	460	275	±25	32	705	641	532	609	16-M24	4	8	16
600	613	500	295	±25	36	825	756	635	717	16-M27	4	8	16
700	711	530	300	±25	40	910	845	738	806	20-M27	5	10	20
750	760	530	320	±30	43	995	927	775	888	20-M30	5	10	20
800	817	560	320	±25	43	1060	984	842	942	20-M33	5	10	20
900	911	580	320	±25	47	1175	1092	945	1050	24-M33	6	12	24
1000	1012	600	330	±25	50	1255	1175	1048	1130	24-M33	6	12	24
1200	1216	640	350	±25	57	1490	1410	1255	1365	32-M33	6	12	32

Other sizes available on request

Designs, materials and specifications shown are subject to change without notice due to our continuing program of product development. AFD10_AFD20_V1b_20180419.

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AFD20 SERIES

DISMANTLING JOINTS
INDIVIDUAL TIE ROD TYPE
DN80 – DN2000



MATERIAL SPECIFICATIONS & PARTS LIST

NO.	DESCRIPTION	MATERIAL
1	Flanged Spigot Long	Ductile Iron (fusion bonded epoxy coated)
2	Flanged Spigot Short	Ductile Iron (fusion bonded epoxy coated)
3	Sealing Flange	Ductile Iron (fusion bonded epoxy coated)
4	Sealing Ring	EPDM
5	Tie Rod	Stainless Steel (Teflon® coated)
6	Washer	Stainless Steel 316
7	Nut	Stainless Steel 316

NOMINAL PRESSURE		PN16
Test:	Strength Test	24Bar
Pressure:	Sealing Test	17.6Bar
Max Working Temperature:		-10°C to +80°C

DIMENSIONAL DRAWINGS

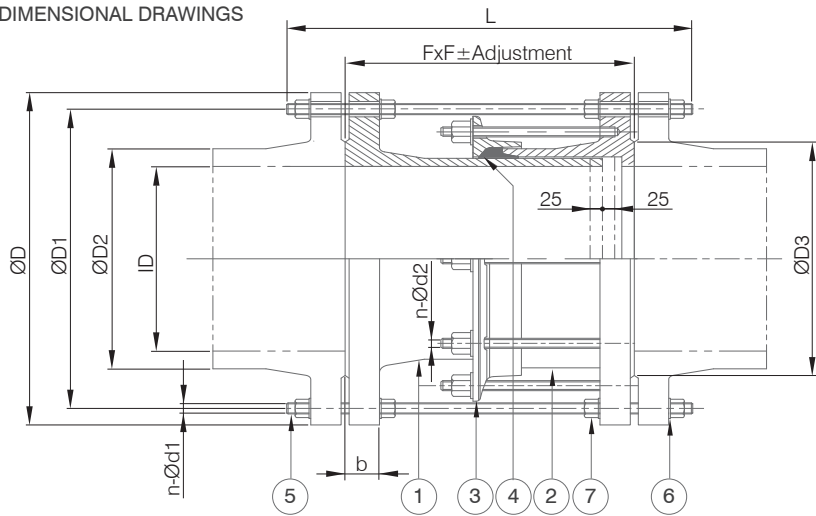
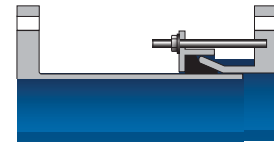


Figure 5. Restrained AFD20 Dismantling Joint



Figure 6. Unrestrained AFD20 Dismantling Joint



DIMENSIONS (MM)

AFD20 DN80 - DN1200						FLANGE DRILLING AS/NZS 4087 CL16 & TIE RODS DETAILS						
DN	ID	L	FxF	Adjustment	b	ØD	ØD1	ØD2	ØD3	n-Ød1	n-Ød2	NO. OF TIE RODS
80	83	330	205	±25	19	185	146	98	122	4-18mm	4-M12	4-M16*330mm
100	101	330	205	±25	19	215	178	118	154	4-18mm	4-M12	4-M16*330mm
150	154	330	205	±25	19	280	235	170	186	8-18mm	4-M12	4-M16*330mm
200	206	350	215	±25	20	335	292	222	211	8-18mm	4-M12	4-M16*350mm
250	258	380	220	±25	22	405	356	274	328	8-22mm	4-M12	4-M20*380mm
300	307	400	240	±25	25	455	406	326	378	12-22mm	6-M12	4-M20*400mm
350	359	410	240	±25	27	525	470	378	438	12-26mm	6-M16	4-M24*410mm
375	400	430	250	±25	28	550	495	406	463	12-26mm	6-M16	4-M24*430mm
400	408	430	250	±25	28	580	521	429	489	12-26mm	6-M16	4-M24*430mm
450	456	450	265	±25	30	640	584	480	532	12-26mm	6-M16	4-M24*450mm
500	508	460	275	±25	32	705	641	532	609	16-26mm	8-M16	4-M24*460mm
600	613	500	295	±25	36	825	756	635	717	16-30mm	8-M16	4-M27*500mm
700	711	510	295	±25	40	910	845	738	806	20-30mm	10-M16	5-M27*510mm
750	788	530	320	±30	41	995	927	813	888	20-33mm	10-M16	5-M30*530mm
800	817	560	320	±25	43	1060	984	842	942	20-36mm	10-M16	5-M33*560mm
900	911	580	320	±25	47	1175	1092	945	1050	24-36mm	12-M16	6-M33*580mm
1000	1012	600	325	±25	50	1255	1175	1048	1133	24-36mm	12-M16	6-M33*600mm
1200	1216	640	340	±25	57	1490	1410	1255	1368	32-36mm	16-M16	8-M33*640mm

Other sizes available on request