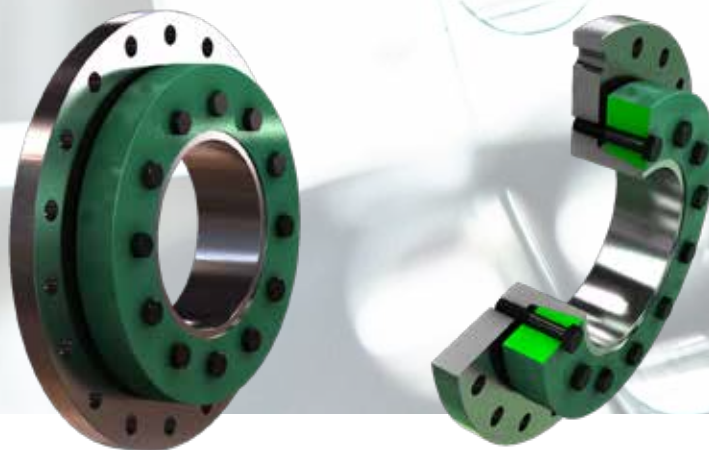
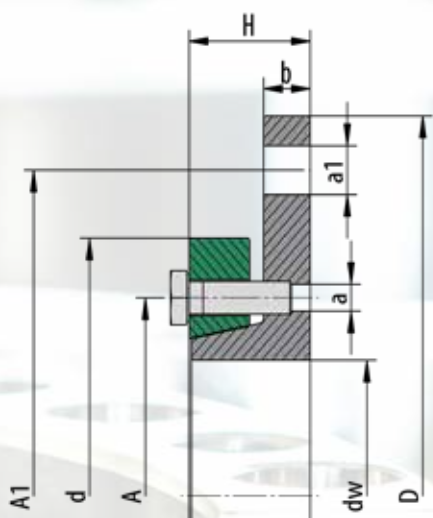
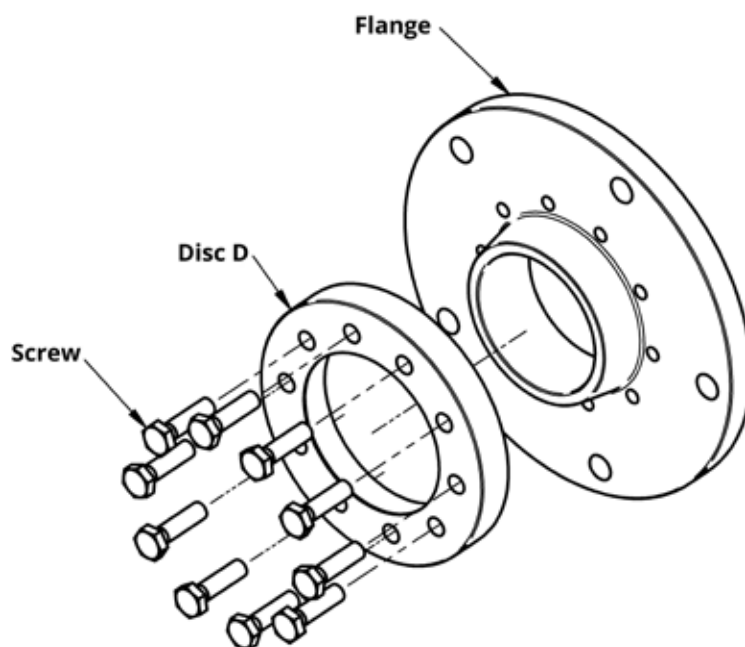


# Connecting Flange AFS



## Used Symbols

dW	[mm]	Shaft diameter
D	[mm]	Outer diameter of the connecting flange
Mt max	[Nm]	max transmittable torque
H	[mm]	Width of the connecting flange
d	[mm]	Outer diameter disc D
A	[mm]	Pitch circle diameter disc D
A1	[mm]	Pitch circle diameter flange
b	[mm]	Width of the flange
Z		Number of screws disc D
S		Size
MA	[Nm]	Required tightening torque
S/a		Number/ Size bores of the flange



## Design of the connecting flange

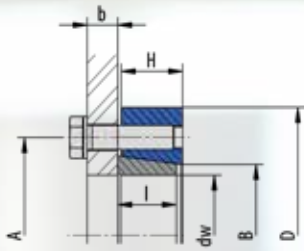
Alternative versions with centering, tapped holes and additional sizes on request.

Example: **AFS-200/470**

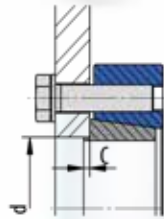
# Connecting Flange AFS

$d_w$ mm	$D$ mm	$M_t$ Nm	$H$ mm	$d$ mm	$A$ mm	$Z$ Pcs	$S$	$M_A$ Nm	$A_1$ mm	$S/a$	$M_A$ Nm	$b$ mm	Weight kg
<b>30</b>	<b>105</b>	310	23	70	54	6	M6 x 020	12	90	4/6,6	12	34	1,00
<b>35</b>	<b>110</b>	450	23	75	59	7	M6 x 020	12	95	5/6,6	12	34	1,1
<b>40</b>	<b>130</b>	645	26	85	64	8	M6 x 022	12	110	4/9	30	34	1,3
<b>45</b>	<b>135</b>	850	26	90	68	9	M6 x 022	12	115	4/9	30	34	1,4
<b>50</b>	<b>140</b>	1100	27	95	73	10	M6 x 025	12	120	5/9	30	34	1,7
<b>55</b>	<b>150</b>	1375	27	105	78	11	M6 x 025	12	130	5/9	30	34	1,9
<b>60</b>	<b>155</b>	1725	28	110	84	12	M6 x 025	12	135	6/9	30	34	2,0
<b>65</b>	<b>170</b>	1940	30	125	95	7	M8 x 030	30	150	7/9	30	34	2,6
<b>70</b>	<b>180</b>	2500	30	135	100	8	M8 x 030	30	160	8/9	30	34	3,1
<b>75</b>	<b>195</b>	3000	34	140	105	9	M8 x 030	30	170	6/11	59	34	3,6
<b>80</b>	<b>200</b>	3650	34	145	110	10	M8 x 030	30	175	7/11	59	34	4,1
<b>85</b>	<b>210</b>	4150	37	155	118	11	M8 x 035	30	185	7/11	59	34	4,8
<b>90</b>	<b>215</b>	4950	37	160	123	12	M8 x 035	30	190	8/11	59	34	5,4
<b>100</b>	<b>235</b>	7350	40	180	138	10	M10 x 040	59	210	10/11	59	34	5,7

# AF Series 12



Model A



Model AB



Model C

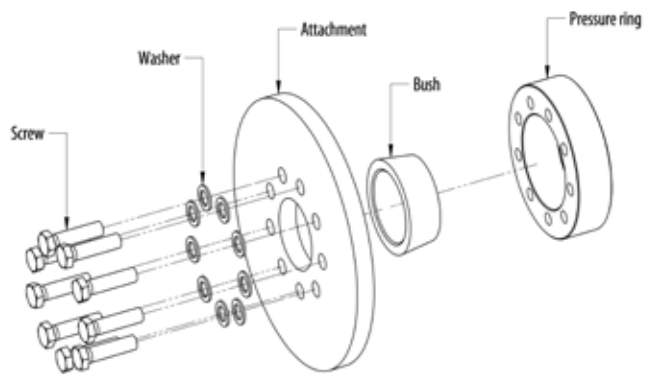


Model BC



## Used symbols

Typ		Nominal size
$d_w$	[mm]	Shaft diameter
$M_{t_{max}}$	[Nm]	Max transmittable torque
D	[mm]	Outer diameter
I	[mm]	Length of the bush
H	[mm]	Width of the external clamping element
A	[mm]	Pitch circle diameter
C	[mm]	Length of the centering
d	[mm]	Diameter of the centering
B	[mm]	Attachment size
<b>Screws</b>		
Z		Number of screws
S		Size of screws
$M_A$	[Nm]	Required tightening torque



Example: **AF-60-12-60 A**

## Design of the external clamping element

Pressure ring painted  
Dimension H in unlocked position

### Applies to all types:

$b > 1,4 \times$  Screw diameter

From M10 with washers

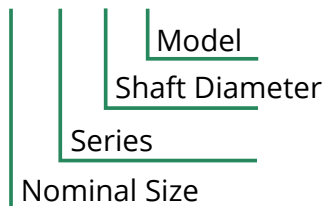
## Details of the fit

Shaft:

up to  $d_w$  150mm H7 / h6  
from  $d_w$  155mm H7 / g6

Centring:

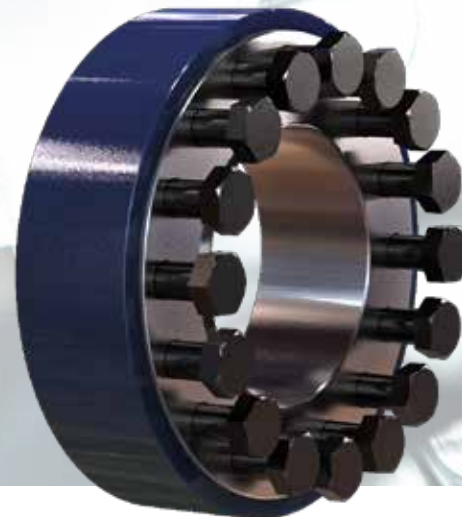
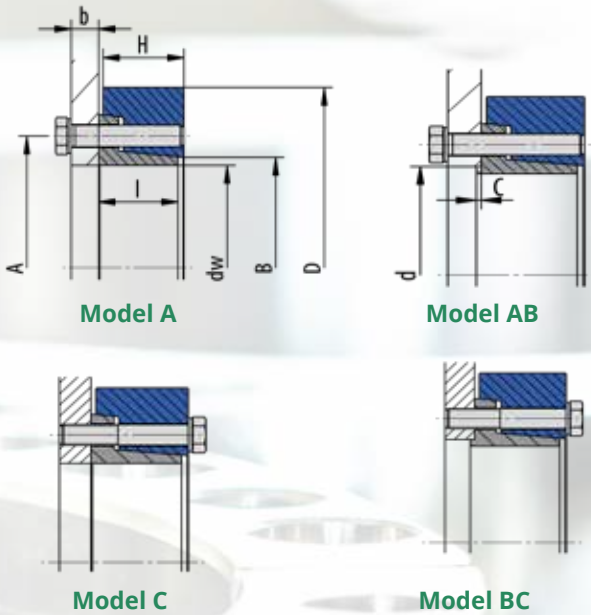
up to d 150mm H7 / h6  
from d 155mm H7 / g6



# AF Series 12

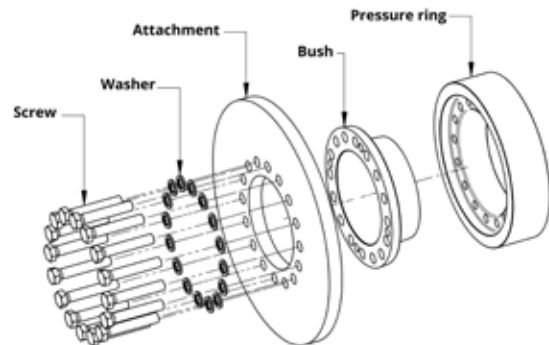
Type	$d_w$ mm	$Mt_{max}$ Nm	D mm	I mm	H mm	A mm	C mm	d mm	B mm	Z Pcs.	S	Class	Ma Nm	Weight kg
AF-10	11	20	39	9	10	25	1,5	12	13	3	M6x18	10.9	12	0,1
	10	20												
	9	20												
AF-12	13	50	44	12	13	28	1,5	14	16	3	M6x20	10.9	12	0,1
	12	50												
	11	50												
AF-15	16	130	52	14	15	36	2	18	21	3	M8x25	10.9	29	0,2
	15	130												
	14	130												
AF-20	20	200	60	16	17	42	2	22	25	3	M8x30	10.9	29	0,3
	18	200												
	16	200												
AF-25	25	340	70	18	19	48	2	27	31	5	M8x30	10.9	29	0,4
	22	340												
	20	340												
AF-30	30	550	76	20	21	56	2	32	35	6	M8x35	10.9	29	0,6
	28	550												
	25	550												
AF-40	40	1060	96	24	25	70	3	43	47	6	M10x35	10.9	58	1,2
	35	1060												
	30	1060												
AF-50	50	2200	112	29	30	84	3	53	58	7	M12x45	10.9	100	2
	45	1800												
	40	1000												
AF-60	60	3230	120	32	34	94	3	63	66	9	M12x50	10.9	100	2,3
	55	3230												
	50	2300												
AF-70	70	5800	148	38	40	112	4	74	79	8	M16x60	10.9	240	4,2
	65	5800												
	60	4500												
AF-80	80	8640	170	42	44	130	4	84	94	9	M16x65	10.9	240	6,1
	75	8640												
	70	6900												
AF-90	90	12000	185	48	50	144	4	94	104	12	M16x70	10.9	240	8
	85	12000												
	80	10700												
AF-100	100	15800	197	52	54	156	4	104	113	14	M16x75	10.9	240	9,5
	95	15800												
	90	15800												

# AF Series 22



## Used symbols

Typ		Nominal size
$d_w$	[mm]	Shaft diameter
$M_{t_{max}}$	[Nm]	Max transmittable torque
D	[mm]	Outer diameter
I	[mm]	Length of the bush
H	[mm]	Width of the external clamping element
A	[mm]	Pitch circle diameter
C	[mm]	Length of the centering
d	[mm]	Diameter of the centering
B	[mm]	Attachment size
<b>Screws</b>		
Z		Number of screws
S		Size of screws
$M_A$	[Nm]	Required tightening torque



Example: **AF-60-22-60 A**

## Design of the external clamping element

Pressure ring painted  
Dimension H in unlocked position

**Applies to all types:**  
 $b > 1,4 \times$  Screw diameter

From M10 with washers

## Details of the fit

Shaft:  
up to  $d_w$  150mm H7 / h6  
from  $d_w$  155mm H7 / g6

Centring:  
up to d 150mm H7 / h6  
from d 155mm H7 / g6

Model  
Shaft Diameter  
Series  
Nominal Size

# AF Series 22

Typ	$d_w$ mm	$Mt_{max}$ Nm	D mm	I mm	H mm	A mm	C mm	d mm	B mm	Z Pcs.	S	Class	Ma Nm	Weight kg
AF-12	12	50	35	10	7	24	1,5	14	13	3	M6x20	10.9	12	0,1
	11	50												
AF-14	14	70	38	10	7,3	26	1,5	16	15	3	M6x20	10.9	12	0,1
	13	70												
AF-16	16	80	41	13,5	9	28	2	18	17	3	M6x25	10.9	12	0,1
	15	80												
AF-18	18	130	44	13,5	9	30	2	20	19	4	M6x25	10.9	12	0,1
	17	130												
AF-20	20	140	47	13,5	9	32	2	22	21	4	M6x25	10.9	12	0,2
	19	140												
AF-25	25	200	50	17	17	36	2	27	26	5	M6x30	10.9	12	0,2
	24	200												
	22	200												
AF-30	30	300	60	18	19	44	3	32	32	6	M6x30	10.9	12	0,3
	28	300												
	26	300												
AF-35	36	500	72	20	21	52	3	38	38	5	M8x35	10.9	29	0,5
	35	500												
	32	450												
AF-40	44	750	80	22	23	61	3	46	47	6	M8x35	10.9	29	0,7
	40	750												
	38	720												
AF-50	50	1300	90	24	25	68	3	53	53	8	M8x40	10.9	29	0,9
	45	1300												
	42	1000												
AF-55	55	1600	100	26	27	72	3	58	58	8	M8x40	10.9	29	1,2
	52	1600												
	45	1600												
AF-60	62	2000	110	26	27	80	3	63	66	9	M8x40	10.9	29	1,4
	60	2000												
	50	2000												
AF-70	70	2100	115	26	27	86	4	74	72	9	M8x40	10.9	29	1,5
	65	2100												
	60	2100												
AF-80	80	4000	141	28	29	100	4	84	82	10	M10x45	10.9	58	2,5
	75	4000												
	70	4000												
AF-90	90	5700	155	34	35	114	4	94	94	12	M10x50	10.9	58	3,6
	85	5700												
	80	5700												

# AF Series 22

Type	$d_w$ mm	$Mt_{max}$ Nm	D mm	I mm	H mm	A mm	C mm	d mm	B mm	Z Pcs.	S	Class	Ma Nm	Weight kg
AF-100	100	8400	170	39	40	124	4	104	104	12	M12x60	10.9	100	4,6
	95	8400												
	90	8400												
AF-110	110	9200	185	45	46	136	5	116	114	12	M12x70	10.9	100	6,2
	105	9200												
	100	9200												
AF-125	125	21000	215	48	50	160	5	126	134	12	M16x75	10.9	240	8,8
	120	21000												
	115	21000												
AF-140	140	26000	230	52	54	176	5	146	146	14	M16x80	10.9	240	11
	135	26000												
	130	26000												
AF-155	160	31000	263	54	55	192	5	166	162	15	M16x80	10.9	240	15
	155	31000												
	150	31000												
AF-170	170	36000	290	61	62	204	5	176	175	16	M16x90	10.9	240	21
	165	36000												
	160	36000												
AF-180	180	43000	300	61	62	218	5	186	185	18	M16x90	10.9	240	22
	175	43000												
	170	43000												
AF-190	190	60000	320	77	78	232	5	196	195	15	M20x110	10.9	470	31
	185	60000												
	180	60000												
AF-200	200	67000	340	75	78	246	5	206	209	16	M20x110	10.9	470	35
	195	67000												
	190	67000												
AF-220	220	93000	370	95	96	270	5	226	230	14	M24x130	10.9	820	53
	210	93000												
	200	93000												
AF-240	240	117000	405	98	100	296	5	246	248	16	M24x140	10.9	820	64
	230	117000												
	220	117000												
AF-260	260	126000	430	106	106	318	5	266	266	16	M24x150	10.9	820	80
	250	126000												
	240	126000												
AF-280	280	151000	460	118	118	340	5	286	288	18	M24x160	10.9	820	95
	270	151000												
	260	151000												
AF-300	300	178000	485	125	126	360	5	306	309	20	M24x170	10.9	820	110
	290	178000												
	280	178000												
AF-320	320	248000	520	125	126	380	5	330	328	20	M27x170	10.9	1210	134
	300	248000												
	280	248000												

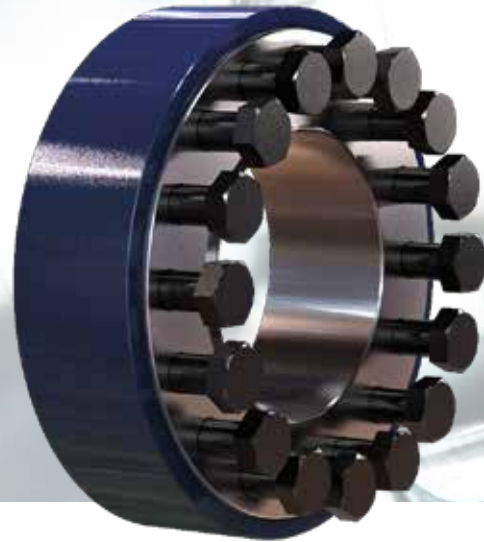
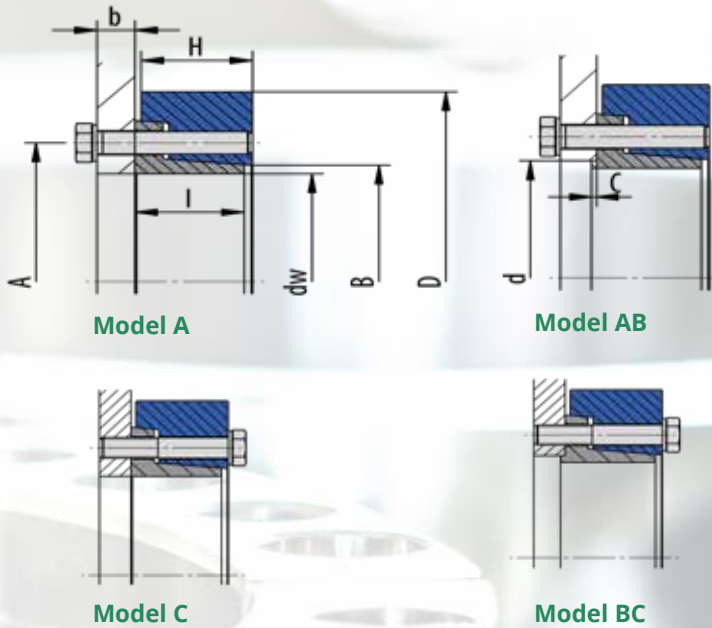
# AF Series 22

Type	$d_w$ mm	$Mt_{max}$ Nm	D mm	I mm	H mm	A mm	C mm	d mm	B mm	Z Pcs.	S	Class	Ma Nm	Weight kg
<b>AF-340</b>	340	275000	570	134	136	402	5	350	351	21	M27x180	10.9	1210	180
	320	275000												
	300	275000												
<b>AF-360</b>	360	290000	590	142	144	424	8	370	367	21	M27x180	10.9	1210	200
	340	290000												
	320	290000												
<b>AF-390</b>	390	363000	630	146	148	458	8	400	398	20	M30x190	10.9	1640	222
	370	363000												
	350	363000												
<b>AF-420</b>	420	407000	650	166	168	490	8	430	424	21	M30x210	10.9	1640	263
	400	407000												
	380	407000												
<b>AF-440</b>	440	426000	670	174	176	512	8	450	448	21	M30x220	10.9	1640	309
	420	426000												
	400	426000												



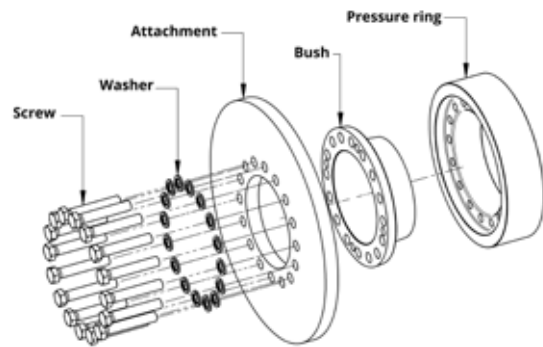


# AF Series 23

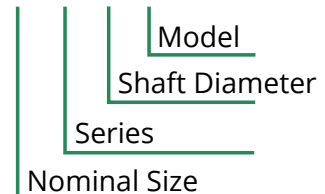


## Used symbols

Typ		Nominal size
$d_w$	[mm]	Shaft diameter
$M_{t\max}$	[Nm]	Max transmittable torque
D	[mm]	Outer diameter
I	[mm]	Length of the bush
H	[mm]	Width of the external clamping element
A	[mm]	Pitch circle diameter
C	[mm]	Length of the centering
d	[mm]	Diameter of the centering
B	[mm]	Attachment size
<b>Screws</b>		
Z		Number of screws
S		Size of screws
$M_A$	[Nm]	Required tightening torque



Example: **AF-60-23-60 A**



## Design of the external clamping element

Pressure ring painted  
Dimension H in unlocked position

### Applies to all types:

$b > 1,4 \times$  Screw diameter

From M10 with washers

## Details of the fit

Shaft:

up to  $d_w$  150mm H7 / h6  
from  $d_w$  155mm H7 / g6

Centring:

up to d 150mm H7 / h6  
from d 155mm H7 / g6

# AF Series 23

Type	$d_w$ mm	$Mt_{max}$ Nm	D mm	I mm	H mm	A mm	C mm	d mm	B mm	Z Pcs.	S	Class	Ma Nm	Weight kg
AF-50	50	3300	115	29	30	84	3	53	58	7	M12x45	10.9	100	2
	45	2200												
	40	1400												
AF-60	60	4700	120	32	34	94	3	63	66	9	M12x50	10.9	100	2,2
	55	3500												
AF-70	50	2300	148	38	40	112	4	74	79	8	M16x60	10.9	240	3,9
	70	9400												
	65	7600												
AF-80	60	5800	167	43	46	130	4	84	94	9	M16x65	10.9	240	5,4
	80	12000												
	75	10000												
AF-90	70	8000	185	48	50	144	4	94	104	12	M16x70	10.9	240	7,4
	90	18000												
	85	15000												
AF-100	80	12000	197	52	54	156	4	104	114	14	M16x75	10.9	240	8,7
	100	23000												
	95	19000												
AF-110	90	16000	215	56	58	166	5	116	124	10	M20x90	10.9	470	11
	110	27000												
	105	26000												
AF-120	100	22000	230	62	65	186	5	126	134	14	M20x90	10.9	470	13,6
	120	43000												
	115	38000												
AF-140	110	33000	290	75	76	216	5	146	160	16	M20x100	10.9	470	29
	140	56000												
	130	50000												
AF-160	120	39000	320	82	83	234	5	166	180	14	M24x110	10.9	820	36,1
	160	77000												
	150	77000												
AF-180	140	64000	340	91	94	276	5	186	205	16	M24x130	10.9	820	45,3
	180	104000												
	170	101000												
AF-200	160	85000	370	95	96	290	5	206	226	16	M27x140	10.9	1210	53,7
	200	144000												
	190	133000												
AF-220	180	114000	405	96	96	320	5	226	246	18	M27x140	10.9	1210	64,3
	220	178000												
	210	178000												
AF-240	200	159000	430	109	110	340	5	246	267	20	M27x150	10.9	1210	81
	240	211000												
	230	211000												
AF-260	220	211000	460	118	118	356	5	286	289	21	M27x160	10.9	1210	109,4
	260	232000												
	250	234000												
	240	234000												

# AF Series 23

Type	$d_w$ mm	$Mt_{max}$ Nm	D mm	I mm	H mm	A mm	C mm	d mm	B mm	Z Pcs.	S	Class	Ma Nm	Weight kg
<b>AF-280</b>	280	234000	485	124	125	360	5	306	304	21	M27x180	10.9	1210	116
	270	234000												
	260	234000												
<b>AF-300</b>	300	247000	520	128	126	380	5	330	315	21	M27x180	10.9	1210	141
	290	247000												
	280	247000												
<b>AF-320</b>	320	299000	550	134	136	402	5	350	336	24	M27x180	10.9	1210	161
	310	299000												
	300	299000												
<b>AF-340</b>	340	315000	570	140	143	424	8	370	368	24	M27x180	10.9	1210	177
	330	315000												
	320	315000												
<b>AF-360</b>	360	410000	610	144	147	454	8	400	383	24	M30x190	10.9	1640	210
	350	410000												
	340	410000												
<b>AF-390</b>	390	439000	630	164	167	486	8	430	428	24	M30x200	10.9	1640	250
	380	439000												
	360	439000												
<b>AF-420</b>	420	457000	670	172	175	506	10	450	440	24	M30x220	10.9	1640	292
	410	457000												
	390	457000												
<b>AF-440</b>	440	562000	700	172	175	534	10	470	468	28	M30x220	10.9	1640	318
	420	562000												
	400	562000												