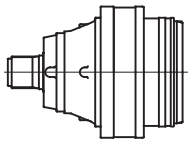
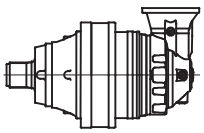
PD 109

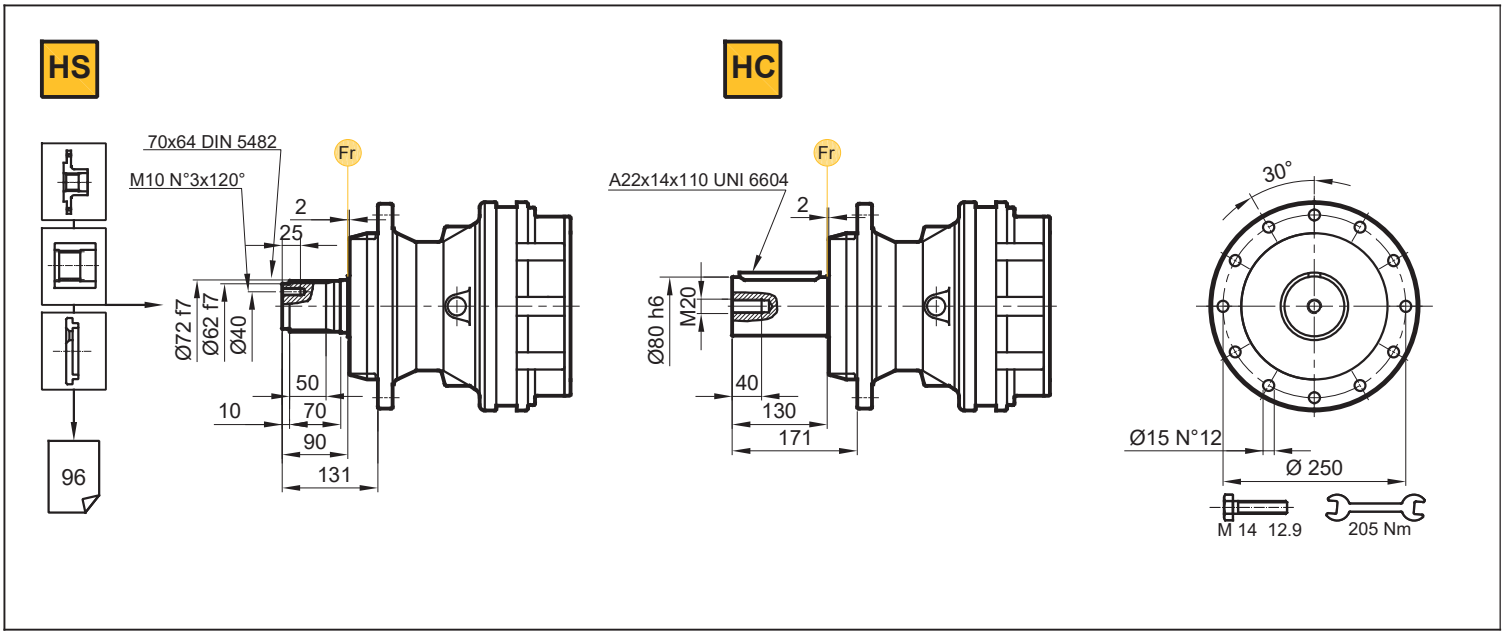
	i	T_2 [Nm] $n_2$xh				n_{1max} [min^{-1}]	T_{2max} [Nm]	P_t [kW]
		10 000	20 000	50 000	100 000			
PD 109 S1	3.66	7930	7020	5970	5290	2800	14040	30
	4.42	7240	6410	5450	4830	2800	12820	30
	5.00	6360	5630	4790	4240	2800	11260	30
	5.80	5380	4760	4050	3590	2800	9520	30
	7.00	4350	3850	3280	2900	2800	7700	30
PD 109 S2	13.9	7930	7020	5970	5290	2800	14020	18
	15,1	7930	7020	5970	5290	2800	14020	18
	18.9	7930	7020	5970	5290	2800	14020	18
	20.6	6360	5630	4790	4240	2800	11260	18
	22.9	7240	6410	5450	4830	2800	12820	18
	26.6	7240	6410	5450	4830	2800	12820	18
	30.0	6360	5630	4790	4240	2800	11260	18
	36.3	6360	5630	4790	4240	2800	11260	18
	42.1	5380	4760	4050	3590	2800	9520	18
	50.8	4350	3850	3280	2900	2800	7700	18
PD 109 S3	53.8	7930	7020	5970	5290	2800	14040	14
	64.8	7930	7020	5970	5290	2800	14040	14
	71.7	7240	6410	5450	4830	2800	12820	14
	78.2	7930	7020	5970	5290	2800	14040	14
	88.3	6360	5630	4790	4240	2800	11260	14
	93.7	7240	6410	5450	4830	2800	12820	14
	102.1	7930	7020	5970	5290	2800	14040	14
	112.9	7240	6410	5450	4830	2800	12820	14
	127.9	7930	7020	5970	5290	2800	14040	14
	139.2	6360	5630	4790	4240	2800	11260	14
	148.5	7930	7020	5970	4830	2800	12820	14
	154.5	7240	6410	5450	5290	2800	14040	14
	174.4	6360	5630	4790	4240	2800	11260	14
	194.9	5380	4760	4050	3590	2800	9520	14
	216.7	7240	6410	5450	4830	2800	12820	14
	244.7	6360	5630	4790	4240	2800	11260	14
	283.8	5380	4760	4050	3590	2800	9520	14
	342.6	4350	3850	3280	2900	2800	7700	14
PD 109 S4	301.2	7930	7020	5970	5290	2800	14040	8
	332.4	7930	7020	5970	5290	2800	14040	8
	347.8	7930	7020	5970	5290	2800	14040	8
	400.7	7930	7020	5970	5290	2800	14400	8
	434.4	7930	7020	5970	5290	2800	14400	8
	474.3	7930	7020	5970	5290	2800	14400	8
	523.6	7930	7020	5970	5290	2800	14400	8
	571.7	7930	7020	5970	5290	2800	14400	8
	632.4	7240	6410	5450	4830	2800	12820	8
	661.8	7240	6410	5450	4830	2800	12820	8
	747.2	6360	5630	4790	4240	2800	11260	8
	768.6	7240	6410	5450	4830	2800	12820	8
	832.3	7240	6410	5450	4830	2800	12820	8
	869.9	6360	5630	4790	4240	2800	11260	8
	976.5	6360	5630	4790	4240	2800	11260	8
	1048.5	6360	5630	4790	4240	2800	11260	8
	1177.0	6360	5630	4790	4240	2800	11260	8
	1366.9	6360	5630	4790	4240	2800	11260	8
	1651.6	6360	5630	4790	4240	2800	11260	8
	2968.9	4350	3850	3280	2900	2800	7700	8

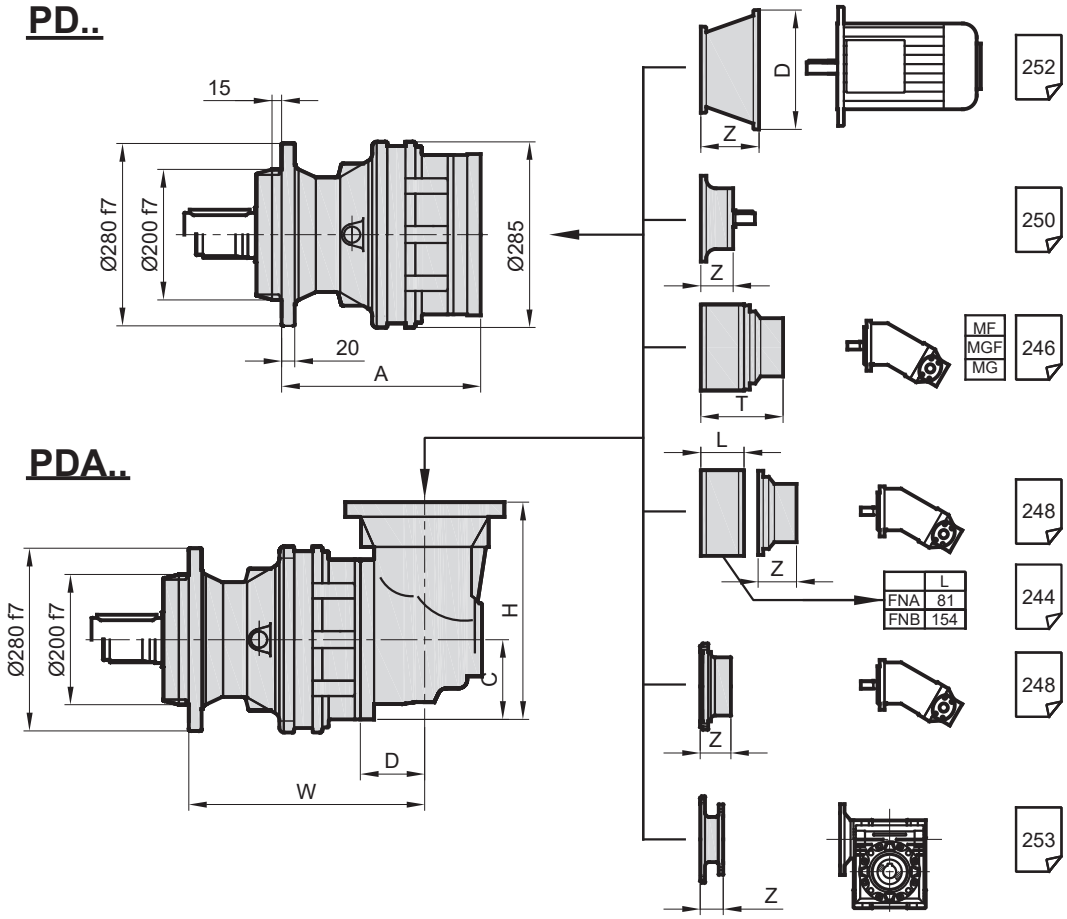
PDA 109

	i	T_2 [Nm] $n_2$xh				n_{1max} [min^{-1}]	T_{2max} [Nm]	P_t [kW]
		10 000	20 000	50 000	100 000			
PDA 109 S2	12.3	7930	7020	5970	5290	2800	14040	18
	14.9	7240	6410	5450	4830	2800	12820	18
	16.8	6360	5630	4790	4240	2800	11260	18
	19.5	5380	4760	4050	3590	2800	9520	18
	20.5	7240	6410	5450	4830	2800	12820	18
	23.1	6360	5630	4790	4240	2800	11260	18
	26.8	5380	4760	4050	3590	2800	9520	18
	32.4	4350	3850	3280	2900	2800	7700	18
PDA 109 S3	53.5	7240	6410	5450	4830	2800	12820	14
	60.4	6360	5630	4790	4240	2800	11260	14
	67.1	7240	6410	5450	4830	2800	12820	14
	77.9	7240	6410	5450	4830	2800	12820	14
	87.9	6360	5630	4790	4240	2800	11260	14
	94.1	7240	6410	5450	4830	2800	12820	14
	106.2	6360	5630	4790	4240	2800	11260	14
	123.2	5380	4760	4050	3590	2800	9520	14
	148.7	4350	3850	3280	2900	2800	7700	14
PDA 109 S4	157.6	7930	7020	5970	5290	2800	14040	8
	174.3	7240	6410	5450	4830	2800	12820	8
	190.3	7240	6410	5450	4830	2800	12820	8
	210.1	7240	6410	5450	4830	2800	12820	8
	229.2	7930	7020	5970	5290	2800	14040	8
	248.2	7930	7020	5970	5290	2800	14040	8
	274.5	7240	6410	5450	4830	2800	12820	8
	299.1	7930	7020	5970	5290	2800	14040	8
	330.9	7240	6410	5450	4830	2800	12820	8
	361.3	7240	6410	5450	4830	2800	12820	8
	392.6	5380	4760	4050	3590	2800	9520	8
	452.5	7240	6410	5450	4830	2800	12820	8
	510.9	6360	5630	4790	4240	2800	11260	8
	556.4	5380	4760	4050	3590	2800	9520	8
	593.3	6360	5630	4790	4240	2800	11260	8
	656.0	6360	5630	4790	4240	2800	11260	8
	716.9	6360	5630	4790	4240	2800	11260	8
	831.6	5380	4760	4050	3590	2800	9520	8
	920.5	6360	5630	4790	4240	2800	11260	8
	1067.8	5380	4760	4050	3590	2800	11260	8

⚠ $\frac{(n_2 \times h = 20000)}{T_{2max} = T_2 \times 2}$

PD/PDA 109



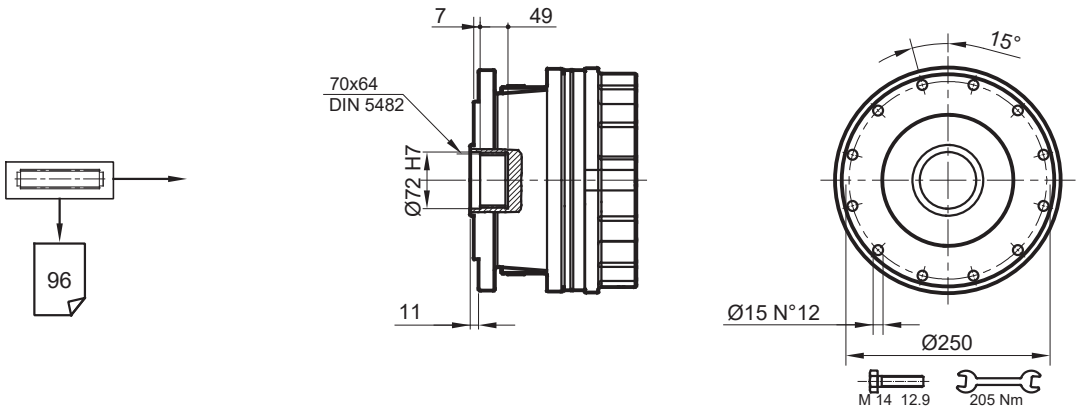


Stage	W	D	C	H	A	PD H	PDA H
S1	-	-	-	-	250,5	65	-
S2	314	118,5	140	390	310,5	77	115
S3	386	75	92,5	253,5	358,5	83	94
S4	434	75	92,5	253,5	406,5	90	101

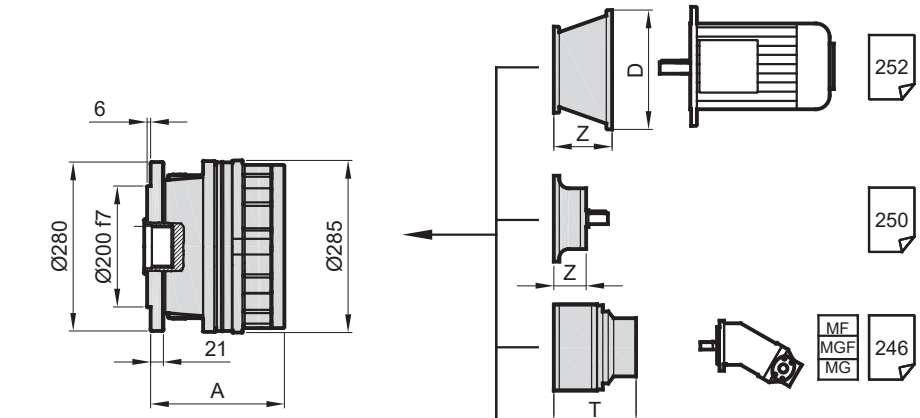
	H71		H80-90		H100		H132		H160-180		H200		H225		H250-280	
Stage	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z
S1	-	-	-	-	-	-	-	-	350	120,5	400	148,5	450	148,5	550	183,5
S2	185	35,5	201	61,5	247	71	300	104	350	120,5	400	148,5	450	148,5	-	-
S3	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-
S4	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-

PD/PDA 109

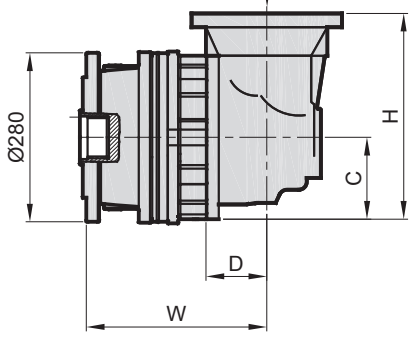
SF



PD..



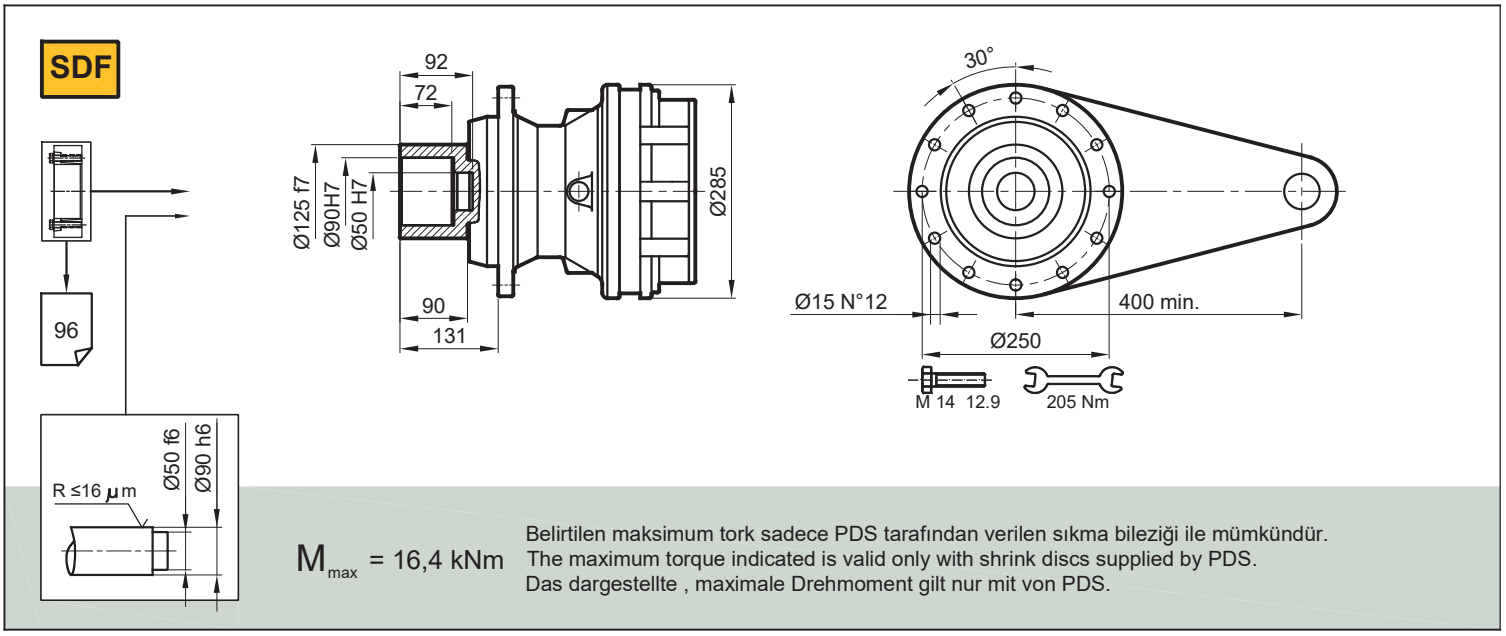
PDA..



Stage	W	D	C	H	A	PD SF	PDA SF
S1	-	-	-	-	196	47	-
S2	259,5	118,5	140	390	256	60	97
S3	331,5	75	92,5	253,5	304	66	77
S4	379,5	75	92,5	253,5	352	73	84

	H71		H80-90		H100		H132		H160-180		H200		H225		H250-280	
Stage	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z
S1	-	-	-	-	-	-	-	-	350	120,5	400	148,5	450	148,5	550	183,5
S2	185	35,5	201	61,5	247	71	300	104	350	120,5	400	148,5	450	148,5	-	-
S3	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-
S4	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-

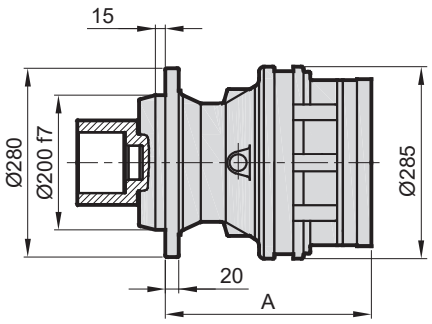
PD/PDA 109



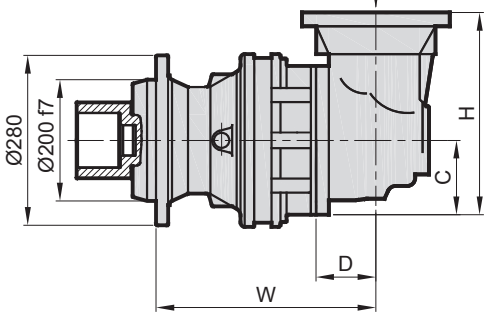
M_{max} = 16,4 kNm

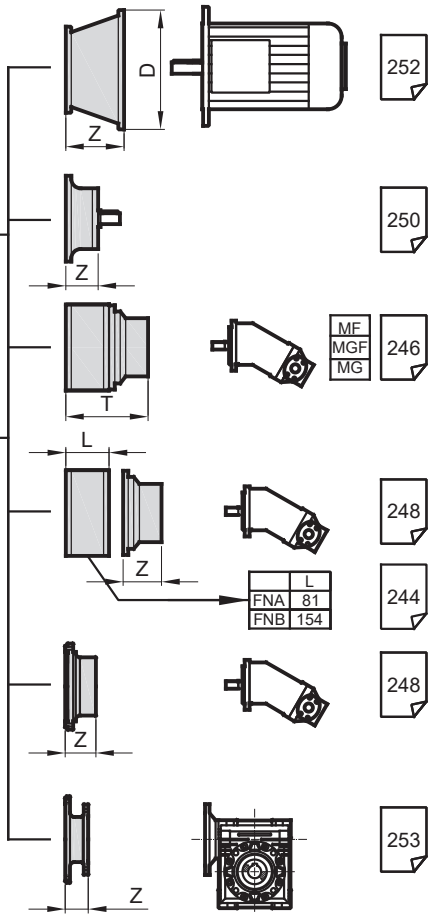
Belirtilen maksimum tork sadece PDS tarafından verilen sıkma bileziği ile mümkündür.
The maximum torque indicated is valid only with shrink discs supplied by PDS.
Das dargestellte , maximale Drehmoment gilt nur mit von PDS.

PD..



PDA..



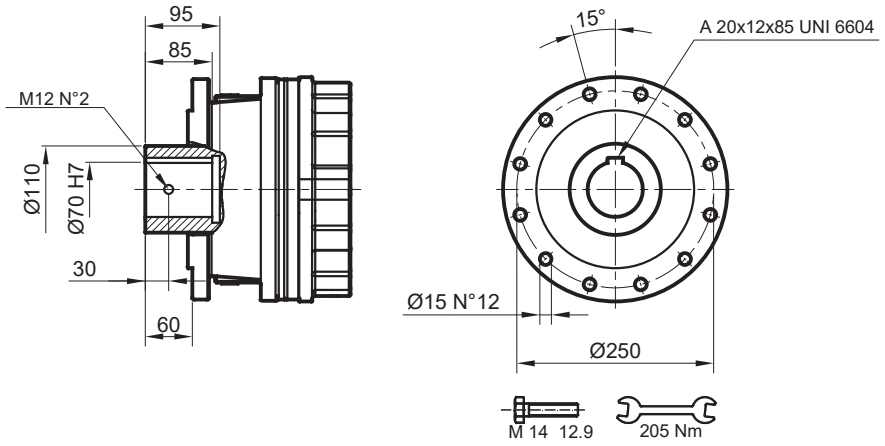


Stage	W	D	C	H	A	PD SDF	PDA SDF
S1	-	-	-	-	250,5	64	-
S2	314	118,5	140	390	310,5	76	114
S3	386	75	92,5	253,5	358,5	83	94
S4	434	75	92,5	253,5	406,5	89	100

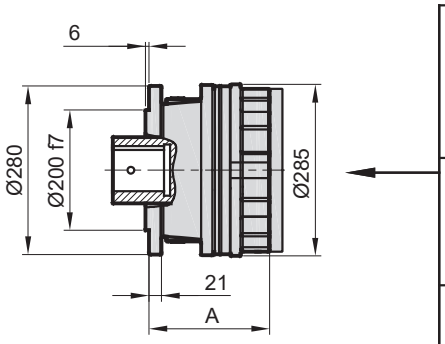
	H71		H80-90		H100		H132		H160-180		H200		H225		H250-280	
Stage	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z
S1	-	-	-	-	-	-	-	-	350	120,5	400	148,5	450	148,5	550	183,5
S2	185	35,5	201	61,5	247	71	300	104	350	120,5	400	148,5	450	148,5	-	-
S3	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-
S4	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-

PD/PDA 109

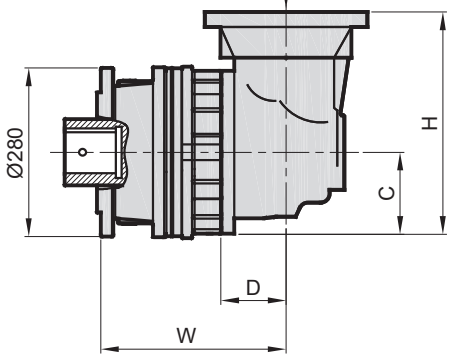
DKM

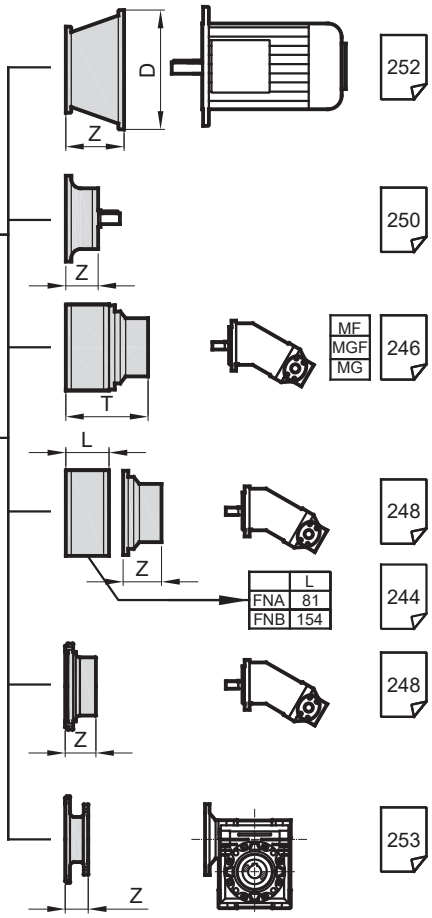


PD..



PDA..



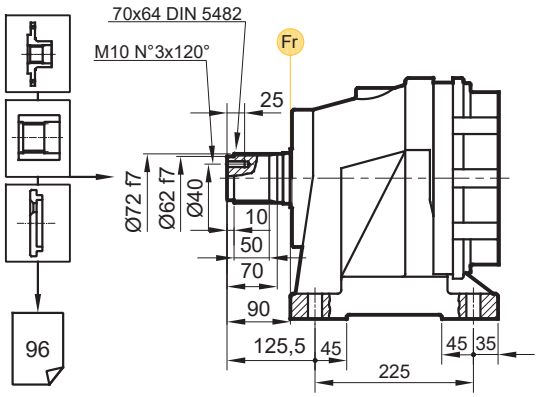


Stage	W	D	C	H	A	PD DKM	PDA DKM
S1	-	-	-	-	196	51	-
S2	259,5	118,5	140	390	256	63	100
S3	331,5	75	92,5	253,5	304	69	80
S4	379,5	75	92,5	253,5	352	76	87

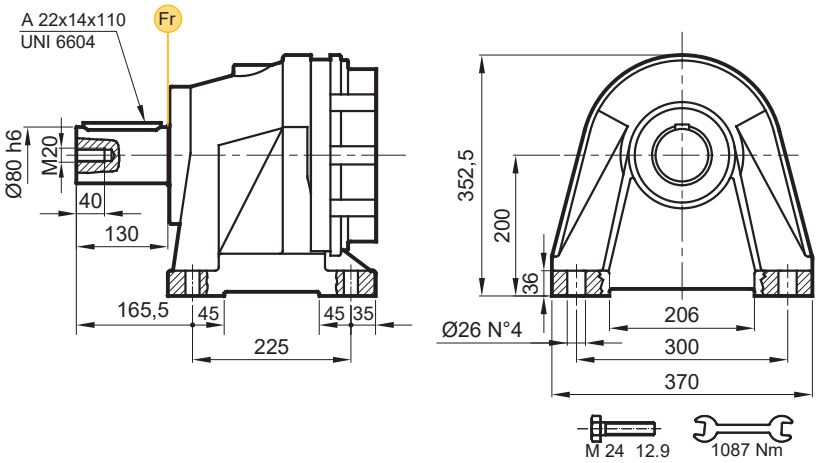
	H71		H80-90		H100		H132		H160-180		H200		H225		H250-280	
Stage	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z
S1	-	-	-	-	-	-	-	-	350	120,5	400	148,5	450	148,5	550	183,5
S2	185	35,5	201	61,5	247	71	300	104	350	120,5	400	148,5	450	148,5	-	-
S3	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-
S4	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-

PD/PDA 109

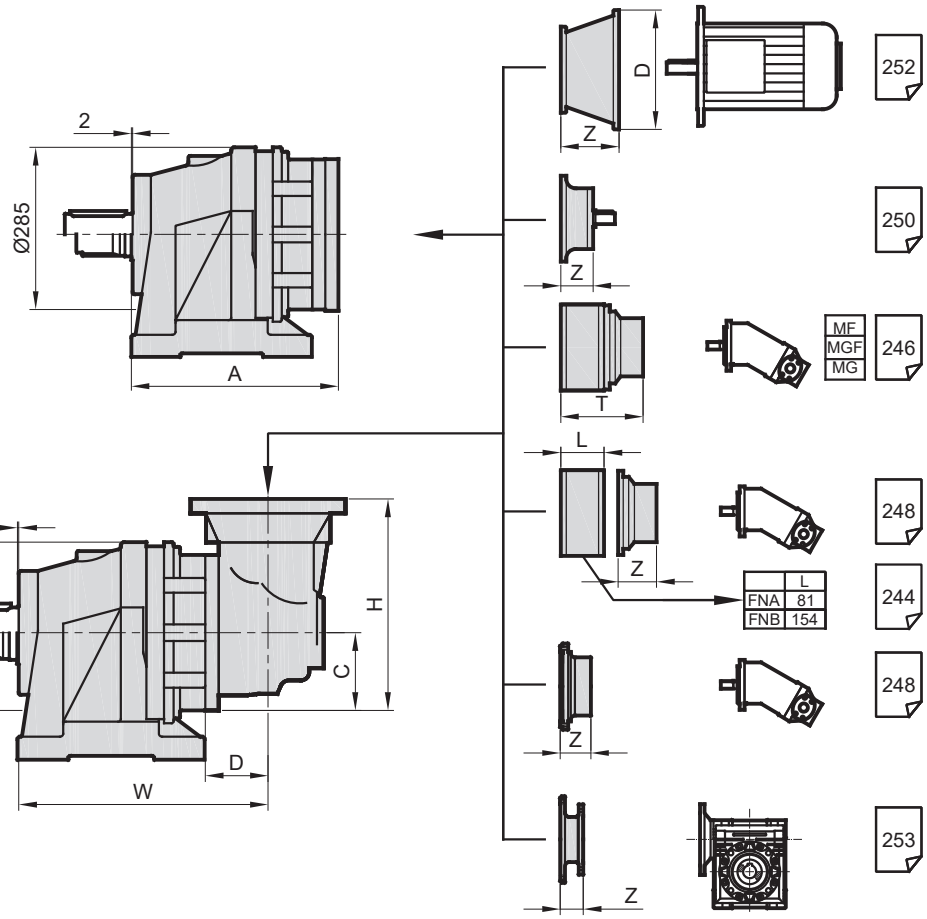
FVS



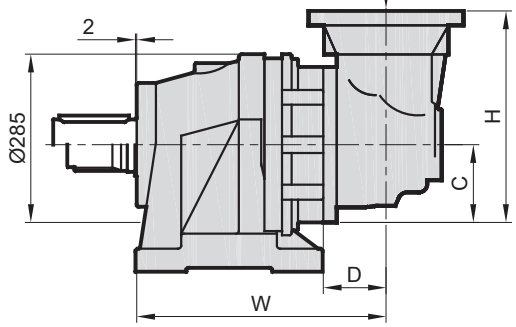
FVC



PD..



PDA..

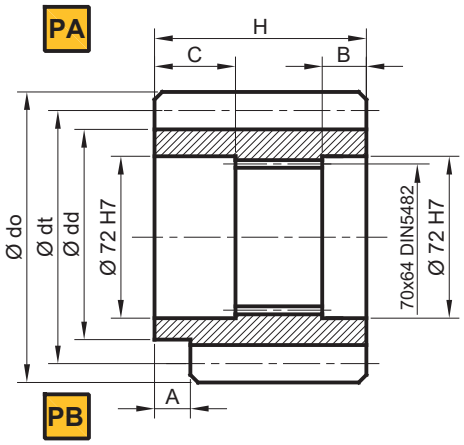


Stage	W	D	C	H	A	PD FVC	PDA FVC
S1	-	-	-	-	291,5	114	-
S2	355	118,5	140	390	351,5	126	164
S3	427	75	92,5	253,5	399,5	133	144
S4	475	75	92,5	253,5	447,5	140	151

	H71		H80-90		H100		H132		H160-180		H200		H225		H250-280	
Stage	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z	D	Z
S1	-	-	-	-	-	-	-	-	350	120,5	400	148,5	450	148,5	550	183,5
S2	185	35,5	201	61,5	247	71	300	104	350	120,5	400	148,5	450	148,5	-	-
S3	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-
S4	185	35,5	201	61,5	247	71	300	104	350	120,5	-	-	-	-	-	-

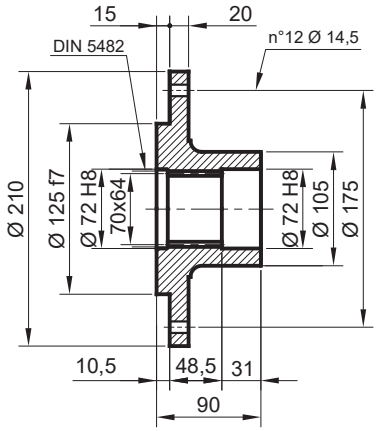
PD/PDA 109

P *Pinyon / Pinion / Ritzel*

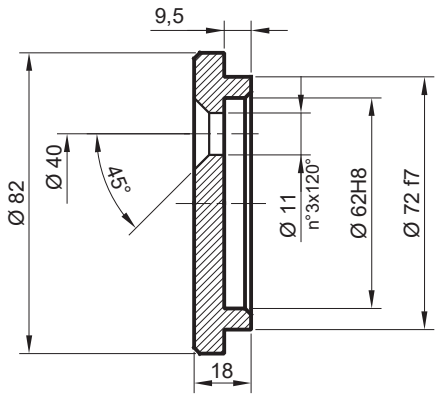


	m	z	x	dd	dt	do	H	A	B	C	Malzeme Material Material
PA	10	11	1,21	72,9	110	142,1	90	0	10	31	42CrMo4
PB	10	11	1,21	72,9	110	142,1	90	9	18,5	31	42CrMo4
PA	10	12	0	95	120	140	90	0	10	31	42CrMo4
PA	10	13	0	95	120	155	90	0	10	30	42CrMo4

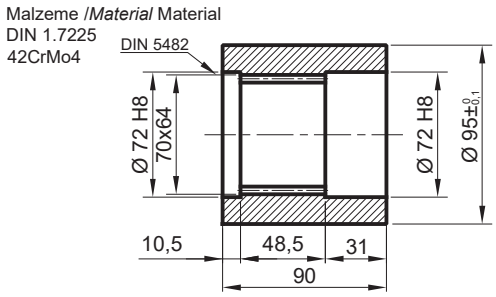
FL Flanş / *Flange* / Flansch



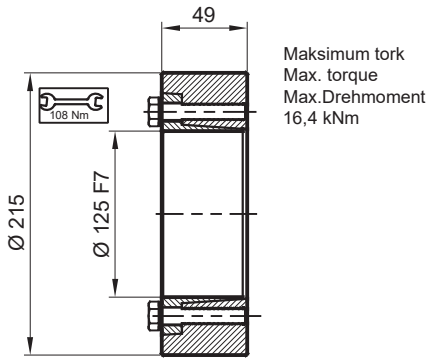
SP Sabitleme Pulu / *Stop bottom plate* / Endscheibe



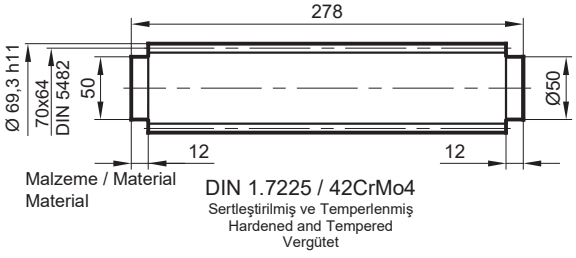
FK Frezeli Kaplin / *Spined bushing* Innenverzahnte Buchse



SB Sıkma Bileziği / Shrink disc Schrumpfscheibe



FM Frezeli Mil / Splined rod Außenverzahnte Welle



R01-2020

PD/PDA 109

RADYAL YÜK(Fr)

Aşağıdaki diyagramlar radyal yükleri ve k faktörlerini arzu edilen n_2x h değerlerinde verir.

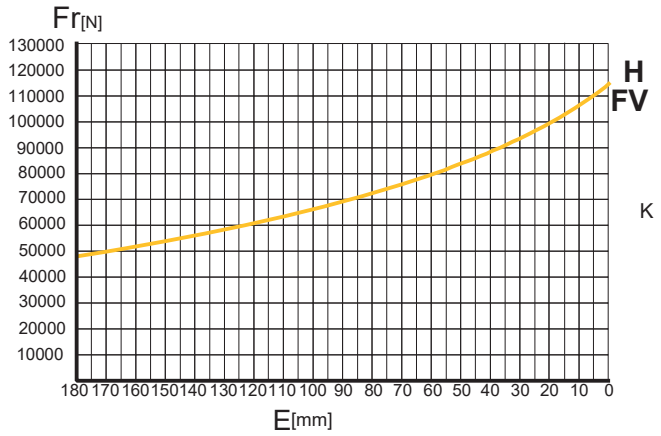
RADIAL LOADS(Fr)

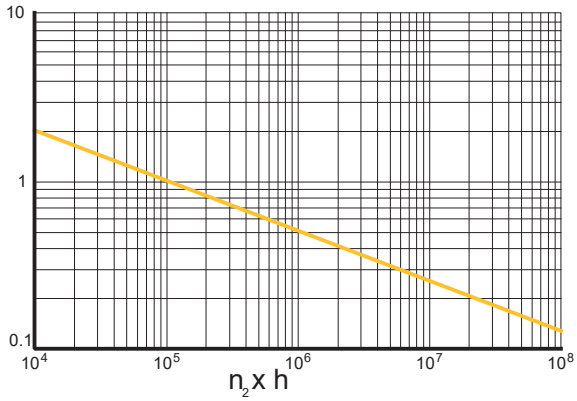
The following curves show the radial loads and the K factors to obtain the required n_2x h value.

RADIALLAST (Fr)

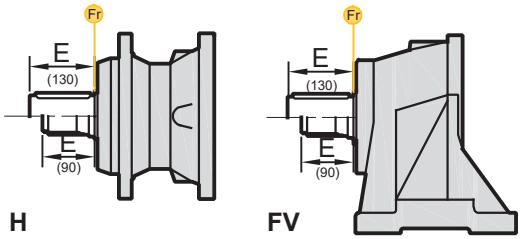
In den nachstehenden Diagrammen ist die Radiallast und der Koeffizient K dargestellt und kann mit dem gewünschten Wert n_2x h verglichen werden.

H-FV





	nxh				
	10^5	10^4	10^6	10^7	10^8
F	Fr	Fr . K			
FV	Fr .0,75	Fr . K . 0,75			



AKSİYEL YÜKLER (Fa)

Tablodaki aksiyel yük değerleri çıkış tipi ve tatbik edilen yük yönünde verilmiştir.

AXIAL LOADS (Fa)

The values of the axial loads in the table refer to the output versions and load directions of application.

AXIALLAST (Fa)

Die dargestellten Werte der Axiallast basieren auf der Version und der applizierten Lastrichtung.

Fa [N]	H	FV	
	40000	40000	←
	60000	60000	→