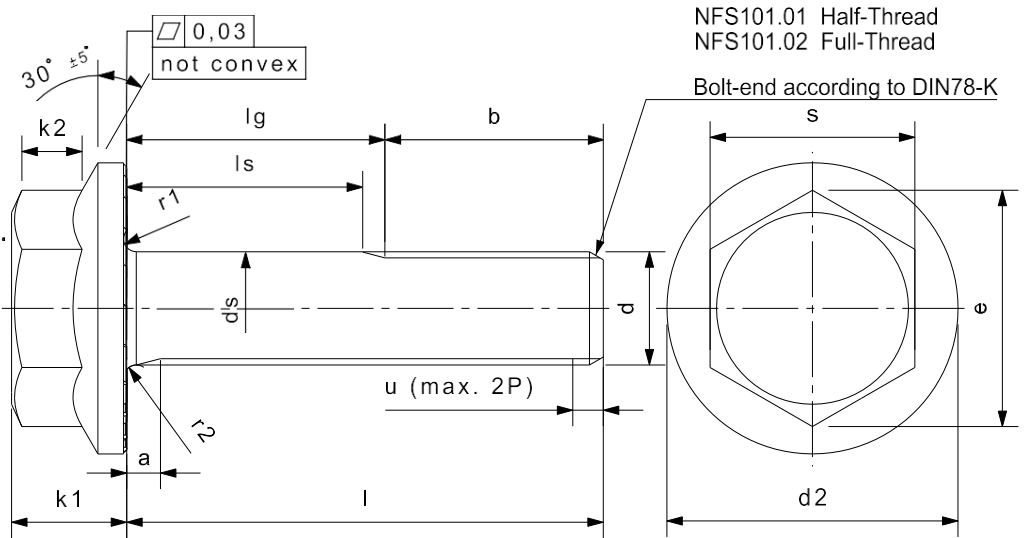
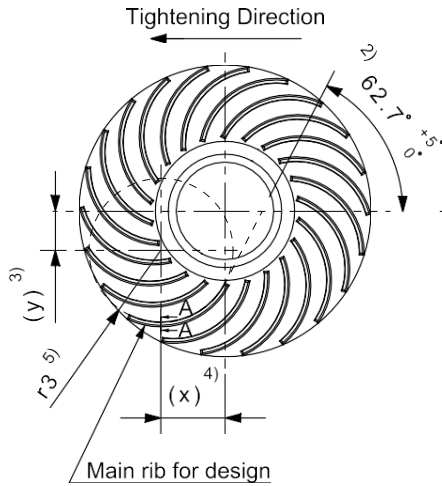


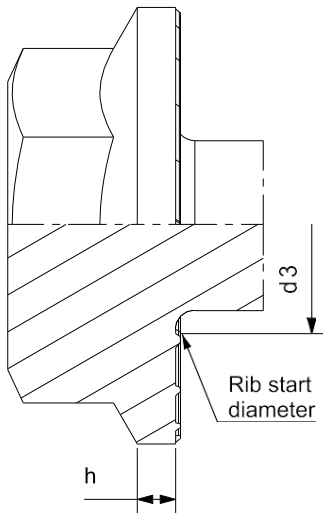
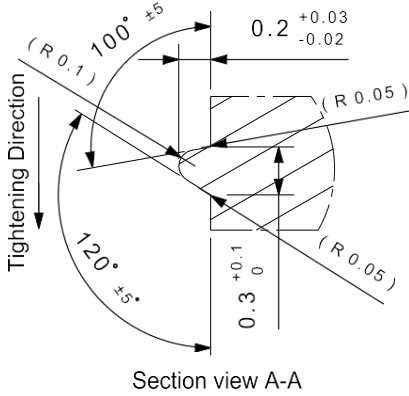
All dimensions are in mm



Designation example for M8, length l=30 and grade FK100:

NFS101.02 - M8x30-100<sup>1)</sup>

d	M8	M10	M12	M14	M16
P	1.25	1.5	1.75	2	2
a	max. 2.5	3	3.5	4	4
b	l ≤ 125mm	22	26	30	34
	l > 125mm	28	32	36	40
d2	max.	18.2	21	24	27.5
	min.	17.36	20.16	23.16	26.66
ds	(nom)max.	8	10	12	14
	min.	7.78	9.78	11.73	13.73
d3	max.	9.2	11.2	14.2	16.2
	min.	9	10.9	13.9	15.9
e	min.	14.38	16.64	18.9	21.1
h	min.	1	1.4	1.4	1.6
	nom.	7	8.5	10	12
k1	max.	7.29	8.79	10.29	12.35
	min.	6.71	8.21	9.71	11.65
k2	min.	3	3.6	4.4	5.4
r1	min.	0.4	0.4	0.6	0.6
	max.	0.6	0.6	1.1	1.1
r2	min.	0.7	0.8	1.3	1.4
	max.	1	1.1	1.65	1.75
s	(nom)max.	13	15	17	19
	min.	12.73	14.73	16.73	18.67
x	ref.	4	4.53	4.89	5.6
y	ref.	2.44	3.11	4.43	5.06
r3	(nom)min.	4.5	5.1	5.5	6.3
	max.	4.7	5.3	5.7	6.5
Number of Ribs	22	25	36	40	50



1) Material

- Steel, strength class 90 - (case-hardened, edge hardness 400-550 HV1, Rm = 900 – 1100 N/mm<sup>2</sup>, Rp 0.2 min = 720 N/mm<sup>2</sup>, case hardened depth max = 0.3 mm)

- Steel, strength class 100 - (case-hardened, edge hardness 400-550 HV1, Rm = 1040 – 1200 N/mm<sup>2</sup>, Rp 0.2 min = 830 N/mm<sup>2</sup>, case hardened depth max = 0.3 mm)

General Requirements

Product class A acc. To DIN 267/2, DIN ISO 4759/1 and DIN ISO 8992

2) Main rib start angle. Coincides with y-axis.  
3) y coordinate of main rib circle center.  
4) x coordinate of main rib circle center.  
5) Radius of main rib circle.

nominal length	d		M8		M10		M12		M14		M16	
	min.	max.	lg max.	ls min.	lg max.	ls min.	lg max.	ls min.	lg max.	ls min.	lg max.	ls min.
10.00	9.71	10.29										
12.00	11.65	12.35										
16.00	15.65	16.35										
20.00	19.58	20.42										
25.00	24.58	25.42										
30.00	29.58	30.42										
35.00	34.50	35.50										
40.00	39.50	40.50										
45.00	44.50	45.50										
50.00	49.50	50.50										
55.00	54.40	55.60										
60.00	59.40	60.60										
65.00	64.40	65.60										
70.00	69.40	70.60										
75.00	74.40	75.60										
80.00	79.40	80.60										
85.00	84.30	85.70										
90.00	89.30	90.70										
100.00	99.30	100.70										
110.00	109.30	110.70										
120.00	119.30	120.70										
130.00	129.20	130.80										
140.00	139.20	140.80										
150.00	149.20	150.80										
160.00	159.20	160.80										
180.00	179.20	180.80										
200.00	199.08	200.92										

Shaft Length ls and lg<sup>1)</sup>

For lengths over the line use full-thread NFS101.02

1) lg max. = nom. Length - b<sub>i</sub> ls min. = lg max. - 5P (P = standard pitch, see ISO 261)  
 In case of out of standard lengths for half-thread, the nominal length (l) and teeth length (b) should be written in the designation. For example M10 with l = 48 and b = 20 the designation should be: NFS101.01 - M10x48/20-100