

外径	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)
8	2 (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	2.5 (5)	3 (4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	2.5 (7)	3 (6)	3.5 (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	2 (9)	2.5 (8)	3 (7)	3.5 (6)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	2 (10)	2.5 (9)	3 (8)	3.5 (7)	4 (6)	-	-	-	-	-	-	-	-	-	-	-	-	-
15	3 (9)	3.5 (8)	4 (7)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	3 (10)	3.5 (9)	4 (8)	4.5 (7)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17.3	3.5 (10.3)	4 (9.3)	4.5 (8.3)	5 (7.3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	3.5 (11)	4 (10)	4.5 (9)	5 (8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	2.5 (14)	3 (13)	3.5 (12)	4 (11)	4.5 (10)	5 (9)	5.5 (8)	6 (7)	-	-	-	-	-	-	-	-	-	-
20	3.5 (13)	4 (12)	4.5 (11)	5 (10)	5.5 (9)	6 (8)	-	-	-	-	-	-	-	-	-	-	-	-
21.7	4 (13.7)	5 (11.7)	6 (9.7)	7 (7.7)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.4	3.5 (18.4)	4 (17.4)	4.5 (16.4)	5 (15.4)	5.5 (14.4)	6 (13.4)	7 (11.4)	-	-	-	-	-	-	-	-	-	-	-
27.2	2.6 (22)	3.2 (20.8)	3.5 (20.2)	4 (19.2)	4.5 (18.2)	5 (17.2)	5.5 (16.2)	6 (15.2)	7 (13.2)	-	-	-	-	-	-	-	-	-
30	2.5 (25)	3 (24)	3.5 (23)	4 (22)	4.5 (21)	5 (20)	5.5 (19)	6 (18)	6.5 (17)	7 (16)	8 (14)	-	-	-	-	-	-	-
31.8	2.6 (26.6)	3.2 (25.4)	4 (23.8)	5 (21.8)	5.5 (20.8)	6 (19.8)	6.5 (18.8)	7 (17.8)	8 (15.8)	9 (13.8)	-	-	-	-	-	-	-	-
34	2.6 (28.8)	3.2 (27.6)	3.5 (27)	4 (26)	4.5 (25)	5 (24)	5.5 (23)	6 (22)	6.4 (21.2)	7 (20)	8 (18)	9 (16)	10 (14)	12 (10)	-	-	-	-
38.1	2.6 (32.9)	3.2 (31.7)	3.5 (31.1)	4 (30.1)	4.5 (29.1)	5 (28.1)	5.5 (27.1)	6 (26.1)	7 (24.1)	8 (22.1)	9 (20.1)	10 (18.1)	11 (16.1)	-	-	-	-	-
40	2.6 (34.8)	3.5 (33)	4 (32)	5 (30)	6 (28)	7 (26)	8 (24)	9 (22)	10 (20)	-	-	-	-	-	-	-	-	-
42.7	2.6 (37.5)	3.2 (36.3)	3.5 (35.7)	4 (34.7)	4.5 (33.7)	5 (32.7)	5.5 (31.7)	6 (30.7)	6.4 (29.9)	7 (28.7)	8 (26.7)	9 (24.7)	10 (22.7)	12 (18.7)	14 (14.7)	15 (12.7)	-	-
45	3.5 (38)	4 (37)	4.5 (36)	5 (35)	6 (33)	7 (31)	8 (29)	9 (27)	10 (25)	12 (21)	15 (15)	-	-	-	-	-	-	-
48.6	3.2 (42.2)	3.5 (41.6)	4 (40.6)	4.5 (39.6)	5 (38.6)	6 (36.6)	7 (34.6)	7.1 (34.4)	8 (32.6)	9 (30.6)	10 (28.6)	11 (26.6)	12 (24.6)	14 (20.6)	15 (18.6)	16 (16.6)	-	-

外径	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)
50	3.2 (43.6)	4 (42)	5 (40)	6 (38)	7 (36)	8 (34)	9 (32)	10 (30)	11 (28)	12 (26)	15 (20)	-	-	-	-	-	-	-
50.8	2.6 (45.6)	3.2 (44.4)	3.5 (43.8)	4 (42.8)	4.5 (41.8)	5 (40.8)	6 (38.8)	7 (36.8)	8 (34.8)	9 (32.8)	10 (30.8)	11 (28.8)	12 (26.8)	15 (20.8)	16 (18.8)	-	-	-
52	3.2 (45.6)	3.5 (45)	4 (44)	5 (42)	6 (40)	7 (38)	8 (36)	10 (32)	11 (30)	12 (28)	13.7 (24.6)	15 (22)	18 (16)	-	-	-	-	-
54	3.2 (47.6)	3.5 (47)	4 (46)	5 (44)	5.5 (43)	6 (42)	7 (40)	8 (38)	9 (36)	10 (34)	11 (32)	12 (30)	13 (28)	15 (24)	-	-	-	-
55	4 (47)	5 (45)	6 (43)	7 (41)	8 (39)	10 (35)	12 (31)	14 (27)	15 (25)	-	-	-	-	-	-	-	-	-
57	3.5 (50)	4 (49)	5 (47)	6 (45)	7 (43)	8 (41)	9 (39)	10 (37)	11 (35)	12 (33)	13 (31)	15 (27)	18 (21)	-	-	-	-	-
60.5	3.2 (54.1)	3.5 (53.5)	4 (52.5)	4.5 (51.5)	5 (50.5)	5.5 (49.5)	6 (48.5)	7 (46.5)	8 (44.5)	8.7 (43.1)	9 (42.5)	10 (40.5)	12 (36.5)	15 (30.5)	18 (24.5)	-	-	-
63.5	3.2 (57.1)	3.5 (56.5)	4 (55.5)	5 (53.5)	5.5 (52.5)	6 (51.5)	7 (49.5)	8 (47.5)	9 (45.5)	10 (43.5)	12 (39.5)	15 (33.5)	18 (27.5)	-	-	-	-	-
65	3.5 (58)	4 (57)	5 (55)	6 (53)	7 (51)	8 (49)	9 (47)	10 (45)	12 (41)	14 (37)	15 (35)	16 (33)	18 (29)	-	-	-	-	-
68.1	10 (48.1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70	3.5 (63)	4 (62)	5 (60)	6 (58)	7 (56)	8 (54)	9 (52)	10 (50)	11 (48)	12 (46)	14 (42)	15 (40)	18 (34)	20 (30)	-	-	-	-
73	4 (65)	5 (63)	6 (61)	7 (59)	8 (57)	9 (55)	10 (53)	12 (49)	15 (43)	18 (37)	20 (33)	25 (23)	-	-	-	-	-	-
76.3	3.5 (69.3)	4 (68.3)	4.2 (67.9)	5 (66.3)	5.5 (65.3)	6 (64.3)	6.5 (63.3)	7 (62.3)	8 (60.3)	9 (58.3)	10 (56.3)	11 (54.3)	12 (52.3)	13 (50.3)	14 (48.3)	15 (46.3)	16 (44.3)	18 (40.3)
76.3	19 (38.3)	19.2 (37.9)	20 (36.3)	22 (32.3)	25 (26.3)	-	-	-	-	-	-	-	-	-	-	-	-	-
80	3.5 (73)	4 (72)	5 (70)	6 (68)	7 (66)	8 (64)	9 (62)	10 (60)	12 (56)	14 (52)	15 (50)	17 (46)	18 (44)	20 (40)	25 (30)	-	-	-
82.6	3.5 (75.6)	4 (74.6)	5 (72.6)	6 (70.6)	7 (68.6)	8 (66.6)	9 (64.6)	10 (62.6)	11 (60.6)	12 (58.6)	13 (56.6)	14 (54.6)	15 (52.6)	18 (46.6)	20 (42.6)	22 (38.6)	22.5 (37.6)	23 (36.6)
82.6	25 (32.6)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85	4 (77)	5 (75)	6 (73)	7 (71)	8 (69)	9 (67)	10 (65)	12 (61)	15 (55)	18 (49)	20 (45)	25 (35)	-	-	-	-	-	-
89.1	4.5 (80.1)	5 (79.1)	6 (77.1)	7 (75.1)	8 (73.1)	9 (71.1)	10 (69.1)	11.1 (66.9)	12 (65.1)	13 (63.1)	14 (61.1)	15 (59.1)	16 (57.1)	18 (53.1)	20 (49.1)	25 (39.1)	-	-
95	4 (87)	5 (85)	6 (83)	7 (81)	8 (79)	10 (75)	12 (71)	15 (65)	16 (63)	18 (59)	20 (55)	25 (45)	-	-	-	-	-	-
96	4 (88)	5 (86)	6 (84)	8 (80)	10 (76)	12 (72)	15 (66)	18 (60)	20 (56)	25 (46)	30 (36)	-	-	-	-	-	-	-

外径	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)
101.6	4.2 (93.2)	5 (91.6)	6 (89.6)	7 (87.6)	8 (85.6)	9 (83.6)	10 (81.6)	11 (79.6)	12 (77.6)	12.7 (76.2)	13 (75.6)	14 (73.6)	15 (71.6)	16 (69.6)	18 (65.6)	19 (63.6)	-	-
101.6	25 (51.6)	28 (45.6)	30 (41.6)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
105	3.5 (98)	4 (97)	5 (95)	6 (93)	7 (91)	8 (89)	10 (85)	12 (81)	15 (75)	18 (69)	20 (65)	22 (61)	25 (55)	28 (49)	30 (45)	35 (35)	-	-
108	3.5 (101)	4 (100)	5 (98)	6 (96)	7 (94)	8 (92)	10 (88)	12 (84)	15 (78)	18 (72)	20 (68)	25 (58)	30 (48)	35 (38)	-	-	-	-
110	3.5 (103)	4 (102)	5 (100)	6 (98)	7 (96)	8 (94)	9 (92)	10 (90)	12 (86)	15 (80)	18 (74)	20 (70)	25 (60)	27 (56)	30 (50)	35 (40)	-	-
114.3	3.5 (107.3)	4.5 (105.3)	5 (104.3)	6 (102.3)	7 (100.3)	8 (98.3)	9 (96.3)	10 (94.3)	11.1 (92.1)	12 (90.3)	13.5 (87.3)	14 (86.3)	15 (84.3)	16 (82.3)	18 (78.3)	20 (74.3)	-	-
114.3	30 (54.3)	35 (44.3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	3.5 (113)	4 (112)	5 (110)	6 (108)	7 (106)	8 (104)	10 (100)	12 (96)	15 (90)	18 (84)	20 (80)	25 (70)	30 (60)	35 (50)	-	-	-	-
124	22 (80)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
127	4 (119)	4.5 (118)	5 (117)	6 (115)	7 (113)	8 (111)	10 (107)	12 (103)	13 (101)	15 (97)	18 (91)	20 (87)	25 (77)	30 (67)	35 (57)	-	-	-
130	5 (120)	6 (118)	7 (116)	8 (114)	10 (110)	12 (106)	13 (104)	15 (100)	18 (94)	20 (90)	25 (80)	26 (78)	27 (76)	30 (70)	35 (60)	40 (50)	-	-
135	4 (127)	5 (125)	6 (123)	8 (119)	10 (115)	12 (111)	15 (105)	18 (99)	20 (95)	23 (89)	25 (85)	30 (75)	35 (65)	-	-	-	-	-
139.8	4 (131.8)	5 (129.8)	6 (127.8)	7 (125.8)	8 (123.8)	9 (121.8)	10 (119.8)	11 (117.8)	12 (115.8)	12.7 (114.4)	15 (109.8)	15.9 (108)	18 (103.8)	20 (99.8)	22 (95.8)	25 (89.8)	-	-
139.8	40 (59.8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	6 (134)	7 (132)	8 (130)	10 (126)	12 (122)	15 (116)	18 (110)	20 (106)	22 (102)	25 (96)	30 (86)	35 (76)	40 (66)	-	-	-	-	-
150	10 (130)	12 (126)	15 (120)	20 (110)	25 (100)	30 (90)	40 (70)	-	-	-	-	-	-	-	-	-	-	-
152.4	5 (142.4)	6 (140.4)	7 (138.4)	8 (136.4)	10 (132.4)	12 (128.4)	13 (126.4)	15 (122.4)	16 (120.4)	18 (116.4)	20 (112.4)	22 (108.4)	25 (102.4)	30 (92.4)	35 (82.4)	40 (72.4)	45 (62.4)	-
159	7 (145)	8 (143)	10 (139)	12 (135)	15 (129)	18 (123)	20 (119)	25 (109)	28 (103)	30 (99)	35 (89)	40 (79)	45 (69)	-	-	-	-	-
165.2	5 (155.2)	6 (153.2)	8 (149.2)	10 (145.2)	11 (143.2)	12 (141.2)	15 (135.2)	18 (129.2)	20 (125.2)	23 (119.2)	25 (115.2)	30 (105.2)	35 (95.2)	40 (85.2)	45 (75.2)	-	-	-

外径	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)	肉厚 (内径)
168.3	5 (158.3)	6 (156.3)	7 (154.3)	8 (152.3)	10 (148.3)	12 (144.3)	15 (138.3)	18 (132.3)	20 (128.3)	22 (124.3)	23 (122.3)	25 (118.3)	30 (108.3)	35 (98.3)	40 (88.3)	45 (78.3)	50 (68.3)	-
177.8	5 (167.8)	6 (165.8)	8 (161.8)	10 (157.8)	12 (153.8)	15 (147.8)	18 (141.8)	20 (137.8)	22 (133.8)	25 (127.8)	30 (117.8)	35 (107.8)	40 (97.8)	45 (87.8)	50 (77.8)	-	-	-
180	6 (168)	8 (164)	10 (160)	12 (156)	15 (150)	18 (144)	20 (140)	25 (130)	30 (120)	35 (110)	40 (100)	45 (90)	50 (80)	-	-	-	-	-
185	5 (175)	6 (173)	7 (171)	8 (169)	10 (165)	12 (161)	15 (155)	18 (149)	20 (145)	25 (135)	30 (125)	35 (115)	40 (105)	-	-	-	-	-
190.7	6 (178.7)	7 (176.7)	8 (174.7)	10 (170.7)	11 (168.7)	12 (166.7)	15 (160.7)	18 (154.7)	20 (150.7)	25 (140.7)	30 (130.7)	35 (120.7)	40 (110.7)	45 (100.7)	50 (90.7)	-	-	-
193.7	8 (177.7)	10 (173.7)	12 (169.7)	15 (163.7)	18 (157.7)	20 (153.7)	25 (143.7)	30 (133.7)	35 (123.7)	40 (113.7)	45 (103.7)	50 (93.7)	-	-	-	-	-	-
200	8 (184)	10 (180)	12 (176)	15 (170)	18 (164)	20 (160)	25 (150)	30 (140)	35 (130)	40 (120)	-	-	-	-	-	-	-	-
203	20 (163)	25 (153)	30 (143)	35 (133)	40 (123)	-	-	-	-	-	-	-	-	-	-	-	-	-
205	8 (189)	10 (185)	12 (181)	15 (175)	18 (169)	20 (165)	25 (155)	30 (145)	35 (135)	40 (125)	45 (115)	-	-	-	-	-	-	-
210	8 (194)	10 (190)	12 (186)	15 (180)	18 (174)	20 (170)	25 (160)	30 (150)	35 (140)	40 (130)	-	-	-	-	-	-	-	-
216.3	8 (200.3)	10 (196.3)	12 (192.3)	15 (186.3)	18 (180.3)	18.2 (179.9)	20 (176.3)	23 (170.3)	25 (166.3)	30 (156.3)	35 (146.3)	40 (136.3)	45 (126.3)	50 (116.3)	-	-	-	-
219.1	8 (203.1)	10 (199.1)	12 (195.1)	15 (189.1)	18 (183.1)	20 (179.1)	25 (169.1)	30 (159.1)	35 (149.1)	40 (139.1)	45 (129.1)	50 (119.1)	-	-	-	-	-	-
232	8 (216)	10 (212)	12 (208)	15 (202)	18 (196)	20 (192)	25 (182)	30 (172)	35 (162)	40 (152)	45 (142)	50 (132)	-	-	-	-	-	-
241.8	8 (225.8)	10 (221.8)	12 (217.8)	15 (211.8)	18 (205.8)	20 (201.8)	25 (191.8)	30 (181.8)	35 (171.8)	40 (161.8)	45 (151.8)	50 (141.8)	-	-	-	-	-	-
244.5	8 (228.5)	10 (224.5)	12 (220.5)	15 (214.5)	18 (208.5)	20 (204.5)	25 (194.5)	30 (184.5)	35 (174.5)	40 (164.5)	45 (154.5)	50 (144.5)	-	-	-	-	-	-
254	8 (238)	10 (234)	12 (230)	15 (224)	20 (214)	25 (204)	30 (194)	35 (184)	40 (174)	45 (164)	-	-	-	-	-	-	-	-
260	10 (240)	12 (236)	15 (230)	20 (220)	25 (210)	30 (200)	-	-	-	-	-	-	-	-	-	-	-	-
267.4	8 (251.4)	10 (247.4)	12 (243.4)	15 (237.4)	18 (231.4)	20 (227.4)	25 (217.4)	30 (207.4)	35 (197.4)	40 (187.4)	45 (177.4)	50 (167.4)	55 (157.4)	-	-	-	-	-

