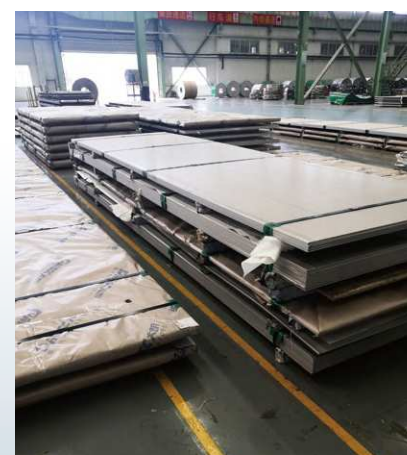




HK HuangShangYou Steel Industrial Limited
香港煌商佑鋼鐵實業有限公司



本公司所有產品可接受香港/澳門落單，大陸交貨/送貨服務

All products of our company can accept
Hong Kong/Macau orders, mainland delivery/delivery services.

寫字樓/Office:

香港九龍大角咀必發道69C
G/F, 69C Bedford Road, Tai Kok Tsui, Kowloon, Hong Kong
Tel: +852-28366968
Phone: +852-92991977 +852-92992577
E-mail: king@ulsteel.com

貨倉/Factory:

中國廣東省惠州市瀝林鎮丹溪村111號
No.111 Danxi Village, Lilin Town, Huizhou City,
Guangdong Province, China
Phone: +86-13392872790
E-mail: admin@ulsteel.com

公司 簡介

Company Profile

香港煌商佑鋼鐵實業有限公司

HK HUANGSHANGYOU STEEL INDUSTRIAL LIMITED

煌商佑不銹鋼結構有限公司成立至今，主要為客戶提供優質的不銹鋼材&不銹鋼製成品。價格公道，交貨準時，公司經過ISO9001質量體系認證。

經營激光焊接（laser welding）不銹鋼結構型材，不銹鋼H型鋼，工字鋼，槽鋼，角鋼，不等邊角鋼，T型鋼，圓管，方通，扁通，扁鋼，方鋼，圓支，板材，花紋鋼板，不銹鋼螺紋鋼，不銹鋼管道，不銹鋼網片，不銹鋼擴張網，不銹鋼螺絲（A4-70，A4-80），不銹鋼法蘭，Grade S304L，S316L，TP317L，1.4401，1.4404，1.4571，BS EN 10204-5，EN 10088-3，EN10088-5。本公司營銷不銹鋼材料品種繁多，未能盡錄，歡迎查詢。

公司配備加工中心，所有不銹鋼材料可按照客戶要求之尺寸進行加工燒焊，配送到地盤服務。

Established up to now, HK Huang-ShangYou Steel Industrial Limited is mainly to provided high quality stainless steel & stainless steel finished products to customers with reasonable price and on time delivery. The company has passed the ISO9001 quality system certification.

Business in Laser welding stainless steel structural profile, stainless steel H beam, I beam, channel, angle, unequal angle, T section, round tube, SHS, RHS, flat bar,

square bar, round bar, plate, chequered steel, stainless steel re-bar, stainless steel pipe, stainless steel mesh, stainless steel expanded metal, stainless steel screw (A4-70,A4-80), stainless steel flange, Grade S304L, S316L, TP317L, 1.4401,1.4404, 1.4571, BS EN 10204-5, EN 10088-3, EN10088-5. The varieties of stainless steel materials marketing of company not all recorded. Welcome any inquire.

Company owns fabrication center, all stainless steel materials can be welding according to profile requirement of customers, and submit delivery service to job site.



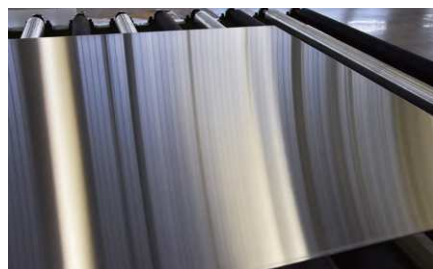
■大角咀地舖 Tai Kok Tsui Office

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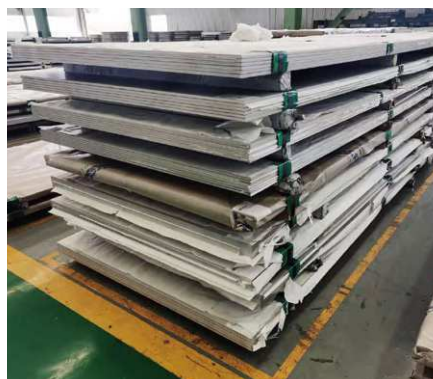


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不銹鋼型材 Stainless Steel Profile



不銹鋼板
Stainless Steel Plates



不銹鋼H型鋼
Stainless Steel H Sections



不銹鋼方通
Stainless Steel Square Hollow Sections



不銹鋼無縫管
Stainless Steel Seamless Circular Hollow Sections



不銹鋼扁鋼
Stainless Steel Flat Bars



不銹鋼方鋼
Stainless Steel Square Bars



不銹鋼角鐵/圓鋼
Stainless Steel Angles/Round Bars



不銹鋼花紋板
Stainless Steel Chequered Floor Plates

不銹鋼加工 Stainless Steel Fabrication



不銹鋼門
Stainless Steel Door



不銹鋼隔油缸
Stainless Steel Grease Trap



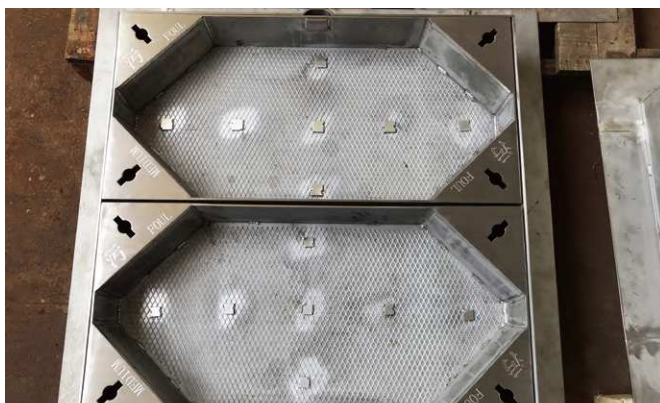
水務署貓梯 (WSD 7.3 H)
Cat Ladder of Water Supplies Department (WSD 7.3 H)



不銹鋼消防龍頭門
Stainless Steel Fire Hydrant Door



不銹鋼欄杆
Stainless Steel Railing



不銹鋼渠蓋
Stainless Steel Manhole Cover



不銹鋼樓梯
Stainless Steel Stair



不銹鋼平台
Stainless Steel Platform

加工產品
Hollow Sections & Tubes

管材
Hollow Sections & Tubes

板材
Plates

型鋼
Sections

不銹鋼網
Stainless Steel Wire Mesh

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Wire Rope Accessories

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Specifications

不銹鋼產品 Stainless Steel Products



不銹鋼指示牌
Stainless Steel Sign



不銹鋼喉碼
Stainless Steel Hose Clamp



不銹鋼電櫃
Stainless Steel Electric Cabinet



不銹鋼絲桿 (A4-80)
Stainless Steel Screw Rods (A4-80)



不銹鋼傳力桿
Stainless Steel Dowel Bars



不銹鋼防撞柱
Stainless Steel Bollards

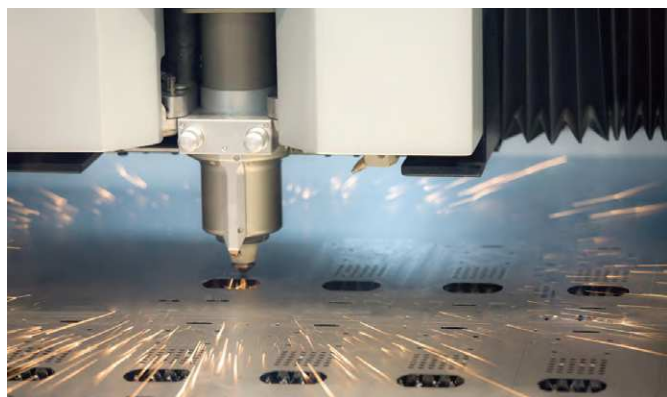


不銹鋼淋花柱
Stainless Steel Flower Watering Posts



不銹鋼長椅
Stainless Steel Bench

不銹鋼切割配送 Stainless Steel Cutting & Distribution



不銹鋼激光切割
Stainless Steel Laser Cutting



不銹鋼蝕刻加工
Stainless Steel Etching Processing



不銹鋼焊接
Stainless Steel Welding



不銹鋼冲孔板 (8mm)
Stainless Steel Perforated Plates (8mm)



不銹鋼拋光拉絲處理
Stainless Steel Polishing and Wire Drawing



不銹鋼捲圓鋼管
Stainless Steel Coil Round Steel Tubes



80mm不銹鋼316L板
316L Stainless Steel Plates (80mm)



不銹鋼折盆
Stainless Steel Bending Channels

加工產品
Hollow Sections & Tubes

管材
Hollow Sections & Tubes

板材
Plates

型鋼
Sections

不銹鋼網
Stainless Steel Wire Mesh

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Wire Rope Accessories

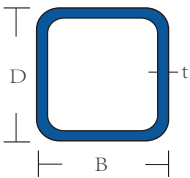
規格標準
Specifications

不銹鋼方型管

Stainless Steel Square Hollow Sections

歐洲標準 European Standard: EN 10296-2

美國標準 American Standard: ASTM269-2008, ASTM312, ASTMA270 / A270M-2015



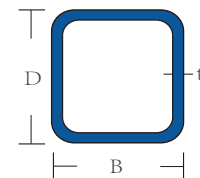
尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
10 x 10	1.0	0.29
	1.0	0.45
	1.2	0.54
	1.5	0.66
15 x 15	1.0	0.49
	1.2	0.58
	1.5	0.71
16 x 16	1.0	0.61
	1.2	0.73
	1.5	0.90
20 x 20	2.0	1.18
	2.5	1.35
25 x 25	1.0	0.77
	1.2	0.92
	1.5	1.14
	2.0	1.50
30 x 30	2.5	1.74
	3.0	2.17
35 x 35	1.0	0.93
	1.2	1.11
	1.5	1.38
	2.0	1.81
40 x 40	2.5	2.24
	3.0	2.65
45 x 45	1.0	1.09
	1.2	1.30
	1.5	1.62
	2.0	2.13
50 x 50	2.5	2.64
	3.0	3.12
60 x 60	1.0	1.25
	1.2	1.50
	1.5	1.86
	2.0	2.45
70 x 70	2.5	3.03
	3.0	3.60
	4.0	4.70
	5.0	5.40
80 x 80	1.5	2.10
	2.0	2.77
90 x 90	1.5	2.34
	2.0	3.09
	2.5	3.83
	3.0	4.56
100 x 100	4.0	5.98
	5.0	7.35
	6.0	8.20
	8.0	10.50
120 x 120	1.5	2.81
	2.0	3.73
	2.5	4.63
	3.0	5.52
140 x 140	3.2	5.67
	3.6	6.34
	4.0	7.26
	5.0	8.94
160 x 160	6.0	9.45

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
70 x 70	2.0	4.37
	2.5	5.28
	3.0	6.47
	3.5	7.25
	3.6	7.46
	4.0	8.53
	5.0	10.10
	6.3	12.50
75 x 75	8.0	15.30
	10.0	19.13
80 x 80	3.0	7.07
	4.0	9.43
	5.0	11.78
	6.0	14.14
80 x 80	1.5	3.77
	2.0	5.00
	2.5	6.22
	3.0	7.43
	3.5	8.35
	3.6	8.59
	4.0	9.81
	5.0	12.13
90 x 90	6.0	13.80
	6.3	14.40
	8.0	17.83
	10.0	21.88
90 x 90	3.0	8.16
	3.5	9.45
	3.6	9.72
	4.0	10.70
	5.0	13.30
	6.0	15.70
	6.3	16.40
	8.0	20.32
100 x 100	10.0	25.53
	2.0	6.28
	3.0	9.34
	4.0	12.36
	5.0	15.32
	6.0	17.60
	6.3	18.40
	8.0	22.90
100 x 100	10.0	27.86
	12.0	33.44
120 x 120	3.0	11.42
	4.0	15.12
	5.0	18.77
	6.0	21.30
	6.3	22.30
	8.0	27.90
	10.0	34.13
	12.0	39.94
120 x 120	12.5	41.6
	5.0	21.10
	6.0	25.97
	6.3	26.30
	8.0	32.89
	10.0	41.15
	12.5	49.50

不銹鋼方型管 (續) Stainless Steel Square Hollow Sections (Continued)

歐洲標準 European Standard: EN 10296-2

美國標準 American Standard: ASTM269-2008, ASTM312, ASTMA270/A270M-2015



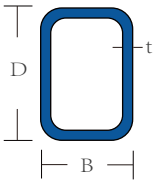
尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
150 x 150	3.0	14.13
	4.0	18.14
	5.0	23.30
	6.0	27.00
	6.3	28.30
	8.0	35.40
	10.0	43.47
	12.0	53.48
	12.5	55.71
	16.0	65.05
160 x 160	5.0	22.83
	6.0	27.39
	8.0	36.90
	10.0	46.88
	12.0	54.78
180 x 180	5.0	27.97
	6.0	33.26
	6.3	34.20
	8.0	43.00
	10.0	53.00
	12.0	61.01
	12.5	65.20
	16.0	81.30
200 x 200	3.0	18.91
	4.0	25.12
	5.0	31.27
	6.0	37.09
	6.3	38.2
	8.0	48.00
	10.0	59.30
	12.0	68.84
	12.5	73.00
	16.0	90.91

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
220 x 220	4.0	26.09
	5.0	32.62
	6.0	39.14
	8.0	52.18
	10.0	65.23
	12.0	78.28
250 x 250	4.0	31.50
	6.0	46.83
	6.3	48.10
	8.0	60.50
	10.0	75.00
	12.0	88.45
300 x 300	12.5	92.70
	16.0	111.48
350 x 350	6.0	55.30
	6.3	57.90
	8.0	74.18
	10.0	90.70
	12.0	108.68
	12.5	112.00
400 x 400	16.0	141.84
	8.0	85.70
	10.0	105.93
	12.0	126.74
400 x 400	12.5	132.00
	16.0	166.94
	8.0	97.56
	10.0	121.95
	12.0	146.34
400 x 400	12.5	152.00
	16.0	191.94

不銹鋼矩型管

Stainless Steel Rectangular Hollow Sections

歐洲標準 European Standard: EN 10296-2
美國標準 American Standard: ASTM269-2008, ASTM312, ASTMA270/A270M-2015



尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
20 x 10	1.0	0.45
	1.2	0.54
	1.5	0.66
20 x 15	1.5	0.78
	2.0	1.02
25 x 10	1.0	0.53
	1.5	0.78
25 x 15	1.0	0.61
	1.2	0.73
	1.5	0.90
	2.0	1.18
30 x 10	1.0	0.61
	1.2	0.73
	1.5	0.90
30 x 15	1.0	0.68
	1.2	0.81
	1.5	1.00
	2.0	1.30
30 x 20	1.0	0.77
	1.2	0.92
	1.5	1.14
	2.0	1.50
35 x 20	1.0	0.85
	1.5	1.26
	2.0	1.65
40 x 10	1.5	1.14
40 x 15	1.0	0.85
	1.2	1.01
	1.5	1.26
	2.0	1.65
40 x 20	1.0	0.93
	1.2	1.11
	1.5	1.38
	2.0	1.81
	2.5	2.03
40 x 25	3.0	2.65
	1.5	1.44
	2.0	1.89
40 x 27	2.5	2.23
	1.5	1.55
40 x 30	1.0	1.09
	1.2	1.30
	1.5	1.62
	2.0	2.13
50 x 10	3.0	3.12
	1.5	1.38
50 x 20	1.0	1.09
	1.2	1.30
	1.5	1.62
	2.0	2.13
50 x 25	1.2	1.42
	1.5	1.76
	2.0	2.32
	2.5	2.69
	3.0	3.41
50 x 30	1.2	1.50
	1.5	1.86
	2.0	2.45
	2.5	2.92

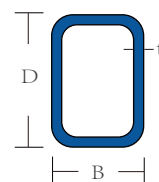
尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
50 x 30	3.0	3.45
	3.2	3.66
	4.0	4.46
	5.0	5.40
50 x 40	2.0	2.77
	3.0	4.08
60 x 10	1.5	1.62
60 x 20	1.2	1.50
	1.5	1.86
	2.0	2.45
60 x 30	1.2	1.69
	1.5	2.10
	2.0	2.77
	3.0	4.08
60 x 40	1.5	2.34
	2.0	3.09
	2.5	3.83
	3.0	4.56
	4.0	5.98
	5.0	6.97
70 x 20	6.3	8.49
	2.0	2.77
70 x 40	2.0	3.41
	3.0	5.04
70 x 50	2.0	3.56
	2.5	4.39
	3.0	5.19
	4.0	6.71
80 x 20	2.0	3.09
80 x 30	3.0	5.04
80 x 40	1.5	2.81
	2.0	3.73
	2.5	4.63
	3.0	5.52
	3.2	5.67
	4.0	7.26
	5.0	8.94
	6.3	10.5
80 x 50	8.0	12.8
	3.0	6.00
	4.0	7.34
	5.0	9.01
80 x 60	6.0	10.81
	2.0	4.37
	3.0	6.47
	4.0	8.53
90 x 50	3.0	6.28
	3.6	7.46
	5.0	10.11
	6.3	12.5
100 x 40	8.0	15.3
	1.5	3.29
	2.0	4.37
	3.0	6.47
	4.0	8.53
	5.0	10.66
	6.0	12.80

不銹鋼矩形管 (續)

Stainless Steel Rectangular Hollow Sections (Continued)

歐洲標準 European Standard: EN 10296-2

美國標準 American Standard: ASTM269-2008, ASTM312, ASTMA270/A270M-2015



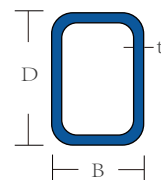
尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
100 x 50	2.0	4.69
	2.5	5.63
	3.0	6.95
	3.2	7.18
	4.0	9.17
	5.0	11.34
	6.3	13.4
100 x 60	8.0	16.6
	2.0	5.00
	3.0	7.43
	4.0	9.81
	3.6	8.59
	5.0	12.13
	6.3	14.4
100 x 80	8.0	17.8
	2.0	5.64
	3.0	8.39
	4.0	11.08
	5.0	13.85
	6.0	16.62
	8.0	22.16
120 x 40	2.0	5.00
	3.0	7.43
	4.0	9.81
	5.0	12.26
120 x 60	2.0	5.64
	3.0	8.39
	3.6	9.72
	4.0	11.08
	5.0	13.73
	6.3	16.40
	8.0	20.40
120 x 80	2.0	6.28
	2.5	7.65
	3.0	9.34
	4.0	12.36
	5.0	15.32
	6.0	17.60
	6.3	18.4
	8.0	22.9
120 x 100	10.0	27.9
	3.0	9.45
	4.0	12.60
	5.0	15.74
	6.0	18.89
140 x 60	8.0	25.19
	3.0	9.32
140 x 70	3.0	8.79
	4.0	11.72
	5.0	14.65
	6.0	17.58
	8.0	23.44
	10.0	29.30
140 x 80	3.0	9.21
	4.0	12.28
	5.0	15.35
	6.0	18.41
	8.0	24.55
	10.0	30.69

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
140 x 100	3.0	11.27
	2.0	6.28
150 x 50	3.0	9.34
	4.0	12.56
	5.0	15.70
	6.0	18.84
150 x 80	3.0	10.77
	4.0	14.36
	5.0	17.95
	6.0	21.54
	8.0	28.72
150 x 100	10.0	35.90
	3.0	11.74
	4.0	15.55
	5.0	19.31
	6.0	22.30
	6.3	23.3
160 x 80	8.0	29.10
	10.0	35.70
	12.5	43.6
	3.0	11.26
	4.0	15.01
	5.0	18.51
160 x 90	6.0	21.30
	6.3	22.3
	8.0	27.90
	10.0	34.2
	12.5	41.6
160 x 100	3.0	10.69
	4.0	14.25
	5.0	17.81
	6.0	21.38
	8.0	28.50
180x 80	10.0	35.63
	12.0	42.75
	3.0	11.34
	4.0	15.12
	5.0	18.89
180 x 100	6.0	22.67
	8.0	30.23
	3.0	12.21
	4.0	16.28
	5.0	20.35
	6.0	24.42
200 x 50	8.0	32.55
	10.0	40.69
	12.0	48.83
	3.0	11.25
200 x 80	4.0	15.00
	5.0	18.75
	6.0	22.50
	3.0	12.39
200 x 100	4.0	16.52
	5.0	20.65
	6.0	24.78
	8.0	33.04

不銹鋼矩形管 (續) Stainless Steel Rectangular Hollow Sections (Continued)

歐洲標準 European Standard: EN 10296-2

美國標準 American Standard: ASTM269-2008, ASTM312, ASTMA270/A270M-2015



尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
200 x 100	3.0	14.13
	4.0	18.74
	5.0	23.30
	6.0	27.00
	6.3	28.30
	8.0	35.40
	10.0	43.60
	12.5	53.40
200 x 120	16.0	66.40
	5.0	24.2
	6.3	30.3
	8.0	37.9
	10.0	46.7
200 x 150	12.5	57.3
	5.0	26.6
	6.3	33.2
	8.0	41.7
	10.0	51.4
250 x 100	12.5	63.2
	16.0	78.9
	5.0	26.6
	6.3	33.2
	8.0	41.7
250 x 150	10.0	51.4
	12.5	63.2
	16.0	78.9
	5.0	30.50
	6.3	38.20
300 x 100	8.0	48.0
	10.0	59.3
	12.5	73
	16.0	91.5
	6.3	38.2
300 x 150	8.0	48
	10.0	59.3
	12.5	73
	16.0	91.5
	4.0	27.00
300 x 200	5.0	33.75
	6.0	40.50
	8.0	54.00
	10.0	67.50
	12.0	81.00

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
300 x 200	6.3	48.10
	8.0	60.50
	10.0	75
	12.5	92.6
	16.0	117
300 x 250	6.3	53
	8.0	66.8
	10.0	82.8
	12.5	102
	16.0	129
350 x 150	6.3	48.1
	8.0	60.5
	10.0	75
	12.5	92.6
	16.0	117
350 x 250	8.0	73.1
	10.0	90.7
	12.5	112
	16.0	142
	6.3	53
400 x 150	8.0	66.8
	10.0	82.8
	12.5	102
	16.0	129
	6.3	57.9
400 x 200	8.0	73.10
	10.0	90.70
	12.5	112
	16.0	142
	10.0	106
400 x 300	12.5	132
	16.0	167
	8.0	85.7
	10.0	106
	12.5	132
450 x 250	16.0	167
	8.0	84.65
	10.0	105.82
	12.0	126.98
	8.0	96.91
500 x 200	10.0	121.14
	12.0	145.37
	12.0	145.37
500 x 300	8.0	96.91
	10.0	121.14
	12.0	145.37

備註:

Remarks:

可根據客戶要求訂做非標尺寸不銹鋼管規格厚度，歡迎查詢。

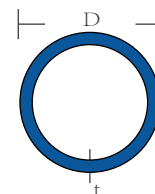
Can be customized according to customer requirements of non-standard size stainless steel pipe thickness. Welcome to inquire.

不銹鋼圓管

Stainless Steel Circular Hollow Sections

歐洲標準 European Standard: EN 10296-2, EN 10217-7

美國標準 American Standard: ASTM269-2008, ASTM312, ASTMA270/A270M-2015

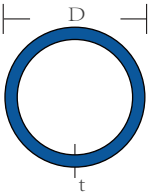


外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
15	1.0	0.35
	1.5	0.58
	2.0	0.65
16	1.0	0.38
	1.5	0.55
	2.0	0.70
	3.0	0.97
18	1.0	0.43
	1.5	0.62
	2.0	0.80
	3.0	1.21
20	1.0	0.48
	1.5	0.70
	2.0	0.90
	2.5	1.90
	3.0	1.27
21.3	1.5	0.74
	1.6	0.80
	2.0	0.97
	2.5	1.18
	2.6	1.22
	3.0	1.38
22	1.0	0.53
	1.5	0.77
	2.0	1.00
	2.5	1.21
	3.0	1.42
25	1.0	0.60
	1.5	0.88
	2.0	1.15
	2.5	1.41
	3.0	1.65
26.9	1.5	0.95
	1.6	1.01
	2.0	1.25
	2.5	1.53
	2.6	1.58
	3.0	1.80
33.7	3.2	1.87
	1.5	1.21
	1.6	1.29
	2.0	1.59
	2.5	1.95
	2.6	2.03
	2.9	2.24
	3.0	2.31
38	3.2	2.44
	4.0	2.98
	1.0	0.93
	1.5	1.38
	1.6	1.46
	2.0	1.82
	2.5	2.23
	3.0	2.64

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
42.4	1.5	1.54
	2.0	2.02
	2.5	2.50
	3.0	3.14
	4.0	3.79
	5.0	4.62
48.3	6.3	5.62
	1.2	1.42
	1.5	1.76
	2.0	2.32
	2.5	2.87
	3.0	3.40
	3.2	3.61
	4.0	4.44
60.3	5.0	5.34
	6.3	6.53
	1.2	1.78
	1.5	2.21
	2.0	2.92
	2.5	3.62
	3.0	4.30
	3.2	4.58
	4.0	5.64
	5.0	6.92
76.1	6.3	8.4
	8.0	10.33
	10.0	12.42
	1.2	2.25
	1.5	2.80
	2.0	3.71
	2.5	4.61
	3.0	5.49
88.9	3.2	5.86
	4.0	7.22
	5.0	8.77
	6.3	10.86
	8.0	13.45
	10.0	16.32
	1.2	2.64
	1.5	3.28
101.6	2.0	4.35
	2.5	5.41
	3.0	6.45
	3.2	6.87
	4.0	8.50
	5.0	10.50
	6.3	12.85
	8.0	15.98
	10.0	19.48
	1.5	3.76
	2.0	4.99
	3.0	7.41
	4.0	9.78
	5.0	11.93

不銹鋼圓管 (續)
Stainless Steel Circular Hollow Sections (Continued)

歐洲標準 European Standard: EN 10296-2, EN 10217-7
美國標準 American Standard: ASTM269-2008, ASTM312, ASTMA270/A270M-2015



外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
114.3	1.5	4.24
	2.0	5.62
	2.5	7.02
	3.0	8.36
	4.0	11.05
	5.0	13.68
	6.3	16.8
139.7	1.5	5.19
	2.0	6.90
	3.0	10.27
	4.0	13.59
	5.0	16.86
	6.3	20.7
	8.0	26
168.3	2.0	8.33
	2.5	10.38
	3.0	12.42
	4.0	16.46
	5.0	20.44
	6.3	25.2
	8.0	31.6
	10.0	39
	12.0	46.3
193.7	5.0	23.3
	6.3	29.1
	8.0	36.6
	10.0	45.3
	12.5	55.9
219.1	2.0	10.87
	3.0	16.23
	4.0	21.54
	5.0	26.81
	6.3	33.1
	8.0	41.6
	10.0	51.6
	12.5	63.7
244.5	4.0	23.73
	5.0	29.5
	6.3	37
	8.0	46.7
	10.0	57.8
	12.5	71.5
	16.0	90.2

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
273	2.0	13.57
	3.0	20.28
	4.0	26.94
	5.0	33
	6.3	41.4
	8.0	52.3
	10.0	64.9
	12.5	80.3
	16.0	101
323.9	2.0	16.12
	3.0	24.11
	4.0	32.04
	5.0	39.3
	6.0	47
	6.3	49.3
	8.0	62.3
	10.0	77.4
	12.5	96
	16.0	121
355.6	8.0	68.6
	10.0	85.2
	12.5	106
	16.0	134
406.4	3.0	30.30
	4.0	40.30
	6.0	59.2
	8.0	78.6
	10.0	97.8
	12.5	121
	16.0	154
457.0	6.0	66.7
	8.0	88.6
	10.0	110
	12.5	137
	16.0	174
508.0	6.0	74.3
	8.0	98.6
	10.0	123
	12.5	153
	16.0	194

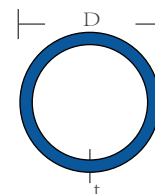
不銹鋼無縫圓管

Stainless Steel Seamless Tubes and Hollow Bars

歐洲標準 European Standard: EN 10216, EN 10297-2

德國標準 German Standard: DIN 17456/17458

美國標準 American Standard: ASTM A312/A312M-2018a



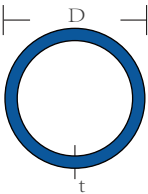
外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
15	1.0	0.35
	1.5	0.51
	2.0	0.65
	2.5	0.78
	3.0	0.90
	4.0	1.10
16	1.0	0.38
	1.5	0.55
	2.0	0.70
	2.5	0.85
	3.0	0.98
	3.5	1.10
18	4.0	1.20
	5.0	1.38
20	1.0	0.43
	1.5	0.62
	2.0	0.80
	2.5	0.97
	3.0	1.13
	3.5	1.27
21.3	4.0	1.40
	1.0	0.48
	1.5	0.70
	2.0	0.90
	2.5	1.10
	3.0	1.28
22	3.5	1.45
	4.0	1.60
	5.0	1.88
25	1.6	0.79
	2.0	0.97
	2.6	1.22
	2.9	1.34
	3.2	1.45
26.9	1.0	0.53
	1.5	0.77
	2.0	1.00
	2.5	1.22
	3.0	1.43
	4.0	1.80
25	1.0	0.6
	1.5	0.88
	2.0	1.15
	2.5	1.41
	3.0	1.65
	3.5	1.88
26.9	4.0	2.10
	5.0	2.50
	6.0	2.86
26.9	1.6	1.01
	2.0	1.25
	2.3	1.42
	2.6	1.58
	2.9	1.74
	3.2	1.90
26.9	4.0	2.29

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
33.7	1.6	1.29
	2.0	1.59
	2.6	2.03
	2.9	2.24
	3.2	2.45
	3.6	2.71
42.4	4.05	3.01
	4.5	3.29
	5.0	3.59
48.3	1.6	1.64
	2.0	2.02
	2.6	2.59
	3.2	3.14
	3.6	3.50
	4.05	3.89
60.3	1.6	1.87
	2.0	2.32
	2.6	2.98
	2.9	3.30
	3.2	3.62
	3.6	4.03
76.1	4.05	4.49
	4.5	4.94
	5.0	5.42
	6.3	6.63
	7.1	7.33
	8.0	8.07
76.1	1.6	2.35
	2.0	2.92
	2.6	3.76
	2.9	4.17
	3.2	4.58
	3.6	5.11
76.1	4.0	5.64
	4.5	6.29
	5.0	6.93
	6.3	8.52
	7.1	9.46
	8.0	10.48
76.1	10.0	12.6
	2.0	4.25
	2.3	5.42
	2.6	4.79
	2.9	5.32
	3.2	5.84
76.1	3.6	6.54
	4.0	7.22
	4.5	8.07
	5.0	8.91
	6.3	11.02
	7.1	12.27
76.1	8.0	13.64
	10.0	16.56
	12.5	19.92

不銹鋼無縫圓管 (續)

Seamless Tubes and Hollow Bars (Continued)

歐洲標準 European Standard: EN 10216, EN 10297-2
 德國標準 German Standard: DIN 17456/17458
 美國標準 American Standard: ASTMA312/A312M-2018a



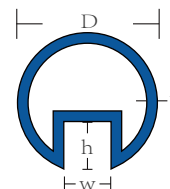
外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
88.9	2.0	4.35
	2.3	4.99
	2.6	5.62
	2.9	6.25
	3.05	6.56
	3.20	6.87
	3.6	7.69
	4.05	8.61
	4.5	9.51
	5.0	10.51
	5.49	11.47
101.6	5.6	11.68
	6.3	13.04
	7.62	15.52
	10.0	19.76
	11.13	21.67
	3.05	7.53
	3.6	8.84
114.3	4.05	9.90
	5.0	12.10
	5.74	13.78
	6.3	15.03
	8.08	18.92
	2.6	7.28
	3.05	8.50
	3.2	8.90
	3.6	9.98
	4.0	11.05
	4.5	12.38
	5.0	13.68
	5.4	14.73
	6.02	16.33
	7.1	19.06
	8.56	22.67
	11.13	28.75
	13.49	34.05
	14.2	35.59
	20.0	47.23

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
139.7	4.0	13.60
	5.0	16.87
	6.3	21.04
	7.1	23.57
168.3	3.4	14.04
	4.5	18.46
	5.0	20.45
	6.3	25.56
	7.1	28.67
	10.0	39.65
219.1	3.76	20.27
	6.3	33.58
	8.18	43.22
	10.0	52.36
	12.7	65.66
273	9.27	61.24
	12.7	82.81
323.9	9.53	75.05
	10.31	80.94
	12.7	99.00
	14.2	110.16
355.6	9.53	82.62
	12.7	109.09
406.4	9.53	94.74
	12.7	125.25

不銹鋼單槽圓管

Stainless Steel Single Slotted Tube

歐盟標準/國際標準 International Standard / European Standard
單位重量表 Unit Weight Table (Unit: kg/m)

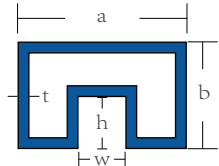


外徑 Outside Diameter	槽口尺寸 Slot Size	厚度(美標) (mm) Thickness(American Standard) (mm)				
		1.0	1.2	1.5	1.5A	2.0
		厚度(英標) (mm) Thickness(British Standard) (mm)				
D (mm)	w x h (mm)	0.9	1.0	1.2	1.35	1.8
25.4	14 x 14	0.77	0.86	1.03	1.16	1.55
28.0	15 x 15	0.85	0.94	1.13	1.27	1.69
30.0	13 x 17	0.92	1.02	1.23	1.38	1.84
31.8	13 x 15	0.93	1.04	1.24	1.40	1.87
31.8	18 x 15	0.93	1.04	1.24	1.40	1.87
38.1	15 x 15	1.07	1.19	1.43	1.61	2.15
38.1	23.5 x 13	1.05	1.16	1.39	1.57	2.09
38.1	19 x 23	1.19	1.32	1.59	1.78	2.38
42.2	19.7 x 26.2	1.33	1.48	1.77	1.99	2.66
42.4	15 x 15	1.17	1.30	1.56	1.76	2.34
42.4	20 x 15	1.17	1.30	1.56	1.76	2.34
42.4	24 x 24	1.30	1.45	1.73	1.95	2.60
48.3	19.7 x 31.8	1.55	1.72	2.06	2.32	3.09
48.3	24 x 24	1.43	1.59	1.91	2.15	2.87
48.3	27 x 30	1.52	1.69	2.03	2.28	3.04
48.3	30 x 27	1.48	1.64	1.97	2.22	2.95
50.0	28 x 21	1.43	1.59	1.91	2.14	2.86
50.8	13.8 x 15	1.36	1.51	1.81	2.04	2.72
50.8	15 x 15	1.36	1.51	1.81	2.04	2.72
50.8	19 x 38	1.69	1.88	2.26	2.54	3.38
50.8	20 x 20	1.43	1.59	1.91	2.15	2.87
50.8	20 x 25	1.50	1.67	2.01	2.26	3.01
50.8	25 x 25	1.50	1.67	2.01	2.26	3.01
60.0	25 x 25	1.71	1.90	2.28	2.57	3.42
60.0	25 x 40	1.93	2.14	2.57	2.89	3.86
60.3	20 x 20	1.65	1.83	2.20	2.47	3.29
60.3	34 x 34	1.85	2.05	2.46	2.77	3.70
63	15 x 15	1.64	1.82	2.18	2.45	3.27
63	19 x 38.1	1.97	2.19	2.62	2.95	3.94
63	20 x 20	1.71	1.90	2.28	2.56	3.42
63	23 x 34	1.91	2.12	2.55	2.86	3.82
63	25 x 25	1.78	1.98	2.37	2.67	3.56
76	25 x 25	2.07	2.30	2.76	3.11	4.15
76	38 x 45	2.36	2.62	3.15	3.54	4.72
100	23 x 27	2.64	2.94	3.52	3.96	5.29

不銹鋼單槽方/矩管

Stainless Steel Single Slotted Square/Rectangular Tube

歐盟標準/國際標準 International Standard / European Standard
單位重量表 Unit Weight Table (Unit: kg/m)



尺寸 Size	槽口尺寸 Slot Size	厚度(美標) (mm) Thickness (American Standard) (mm)				
		1.0	1.2	1.5	1.5A	2.0
		厚度(英標) (mm) Thickness (British Standard) (mm)				
a x b (mm)	w x h (mm)	0.9	1.0	1.2	1.35	1.8
25 x 21	14 x 14	0.86	0.96	1.15	1.29	1.72
31.8 x 31.8	15 x 15	1.13	1.25	1.51	1.69	2.26
32 x 32	15 x 5	0.99	1.10	1.32	1.49	1.98
30 x 25	15 x 5	0.86	0.96	1.15	1.29	1.72
38 x 25	20 x 15	1.12	1.24	1.49	1.68	2.24
38 x 38	15 x 15	1.31	1.45	1.74	1.96	2.61
40 x 30	24 x 24	1.35	1.50	1.80	2.03	2.70
40 x 40	15 x 15	1.36	1.52	1.82	2.05	2.73
40 x 40	20 x 20	1.44	1.60	1.92	2.15	2.87
40 x 60	15 x 15	1.65	1.84	2.20	2.48	3.30
50 x 50	15 x 15	1.65	1.84	2.20	2.48	3.30
50 x 50	20 x 20	1.72	1.92	2.30	2.59	3.45
50 x 25	25 x 15	1.29	1.44	1.72	1.94	2.59
50 x 25	15 x 15	1.29	1.44	1.72	1.94	2.59
50 x 40	18 x 18	1.55	1.72	2.07	2.33	3.10
55 x 45	35 x 28	1.84	2.04	2.45	2.76	3.68
60 x 40	15 x 15	1.65	1.84	2.20	2.48	3.30
60 x 40	24 x 24	1.78	1.98	2.37	2.67	3.56
60 x 60	25 x 25	2.08	2.31	2.78	3.12	4.17
75 x 45	20 x 25	2.08	2.31	2.78	3.12	4.17
75 x 45	25 x 25	2.08	2.31	2.78	3.12	4.17
75 x 45	35 x 28	2.13	2.36	2.83	3.19	4.25
70 x 30	42 x 6	1.52	1.69	2.03	2.28	3.05
71 x 26	15 x 12	1.57	1.74	2.09	2.35	3.13
80 x 80	34 x 50	3.02	3.35	4.02	4.52	6.03
100 x 30	34 x 19	2.14	2.38	2.85	3.21	4.28

不銹鋼雙槽/橢圓槽管

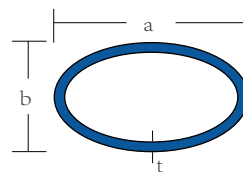
Stainless Steel Double Slotted Tube/Oval Groove Tube

歐盟標準/國際標準 International Standard / European Standard
單位重量表 Unit Weight Table (Unit: kg/m)

尺寸 Size	槽口尺寸 Slot Size	厚度(美標) (mm) Thickness (American Standard) (mm)				
		1.0	1.2	1.5	1.5A	2.0
		厚度(英標) (mm) Thickness (British Standard) (mm)				
D/a x b x c (mm)	w x h (mm)	0.9	1.0	1.2	1.35	1.8
50.8	15 x 15	1.58	1.75	2.10	2.36	3.15
76	25 x 25	2.43	2.70	3.24	3.65	4.86
85 x 40	25 x 13	3.37	3.75	4.49	5.06	6.74
85 x 40	25 x 20	3.57	3.97	4.76	5.36	7.14
40 x 40	15 x 15	2.24	2.48	2.98	3.35	4.47
60 x 40	15 x 15	2.73	3.04	3.64	4.10	5.46
60 x 40	20 x 20	2.88	3.20	3.83	4.31	5.75
70 x 35	26 x 17	2.99	3.32	3.98	4.48	5.97
80 x 40	20 x 20	3.43	3.81	4.57	5.14	6.86
80 x 40	24 x 24	3.54	3.94	4.72	5.32	7.09
80 x 40	33 x 26	3.60	4.00	4.80	5.40	7.20
86 x 58	40 x 20	3.88	4.32	5.18	5.83	7.77
87 x 65	25 x 25	4.18	4.65	5.58	6.28	8.37
100 x 52	45 x 40	4.75	5.27	6.33	7.12	9.49
110 x 40	33 x 26	4.48	4.98	5.98	6.72	8.96
120 x 33 x 74	15 x 12	4.84	5.38	6.46	7.26	9.69
140 x 50	36 x 20	5.32	5.91	7.09	7.98	10.64
100 x 68	42 x 27	4.63	5.15	6.18	6.95	9.27
103 x 68	25.3 x 13	4.31	4.79	5.75	6.47	8.62
60 x 20	7 x 7	2.22	2.47	2.96	3.33	4.44
60 x 20	30 x 5	2.16	2.40	2.88	3.24	4.32
80 x 25	50 x 10	2.96	3.29	3.95	4.44	5.92

不銹鋼橢圓管 Stainless Steel Oval Tube

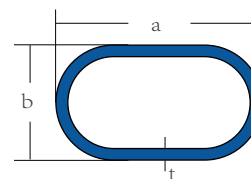
歐盟標準/國際標準 International Standard / European Standard
單位重量表 Unit Weight Table (Unit: kg/m)



尺寸 Size	厚度(美標) (mm) Thickness (American Standard) (mm)									
	0.8	0.9	1.0	1.2	1.5	1.5A	2.0	2.5	3.0	4.0
	厚度(英標) (mm) Thickness (British Standard) (mm)									
a x b (mm)	0.7	0.8	0.9	1.0	1.2	1.35	1.7	2.25	2.7	3.5
18.9 x 25.3	0.78	0.90	1.01	1.12	1.34	1.51	1.90	2.52	3.02	3.92
15 x 30	0.83	0.95	1.07	1.19	1.43	1.61	2.02	2.68	3.21	4.16
18 x 33	0.93	1.07	1.20	1.33	1.60	1.80	2.27	3.00	3.60	4.66
20 x 30	0.89	1.02	1.15	1.28	1.53	1.73	2.17	2.88	3.45	4.47
20 x 34.3	0.99	1.13	1.27	1.41	1.69	1.90	2.39	3.17	3.80	4.93
21 x 61	1.60	1.83	2.06	2.29	2.74	3.09	3.89	5.15	6.18	8.01
23 x 38	1.10	1.26	1.42	1.57	1.89	2.13	2.68	3.54	4.25	5.51
24.9 x 40	1.17	1.34	1.50	1.67	2.00	2.26	2.84	3.76	4.51	5.85
30 x 60	1.66	1.90	2.14	2.38	2.85	3.21	4.04	5.35	6.42	8.32
30 x 70	1.89	2.16	2.43	2.70	3.24	3.65	4.59	6.08	7.29	9.45
31 x 62	1.72	1.97	2.21	2.46	2.95	3.32	4.18	5.53	6.64	8.60
32 x 64	1.78	2.03	2.08	2.54	3.04	3.42	4.31	5.71	6.85	8.88
35 x 55	1.62	1.85	2.08	2.31	2.77	3.12	3.93	5.20	6.24	8.09
34 x 80	2.16	2.47	2.77	3.08	3.70	4.16	5.24	6.93	8.32	10.79
35 x 80	2.17	2.48	2.79	3.10	3.72	4.18	5.26	6.97	8.36	10.84
40 x 60	1.79	2.05	2.30	2.56	3.07	3.45	4.35	5.75	6.90	8.95
40 x 80	2.42	2.77	3.11	3.46	4.15	4.67	5.88	7.78	9.34	12.11
40 x 110	2.90	3.32	3.73	4.15	4.98	5.60	7.05	9.34	11.20	14.52
42 x 75	2.13	2.44	2.74	3.05	3.66	4.11	5.18	6.86	8.23	10.67
46 x 100	2.73	3.12	3.51	3.90	4.68	5.27	6.63	8.78	10.54	13.66
50 x 100	2.77	3.17	3.57	3.96	4.76	5.35	6.74	8.92	10.70	13.87
50 x 120	3.23	3.69	4.15	4.61	5.53	6.22	7.84	10.37	12.44	16.13
50 x 150	3.92	4.48	5.05	5.61	6.73	7.57	9.53	12.61	15.14	19.62
57 x 93	2.71	3.09	3.48	3.87	4.64	5.22	6.57	8.70	10.44	13.54
60 x 90	2.68	3.07	3.45	3.83	4.60	5.18	6.52	8.63	10.35	13.42
60 x 120	3.33	3.81	4.28	4.76	5.71	6.42	8.09	10.70	12.84	16.65
78 x 145	4.09	4.67	5.25	5.84	7.00	7.88	9.92	13.13	15.76	20.43
80 x 142	4.04	4.62	5.20	5.78	6.93	7.80	9.82	13.00	15.60	20.22
90 x 180	4.99	5.71	6.42	7.14	8.56	9.63	12.13	16.05	19.26	24.97
95 x 180	5.05	5.77	6.49	7.22	8.66	9.74	12.27	16.24	19.48	25.26
100 x 200	5.55	6.34	7.14	7.93	9.51	10.70	13.48	17.84	21.41	27.75

不銹鋼平橢管 Stainless Steel Flat Oval Tube

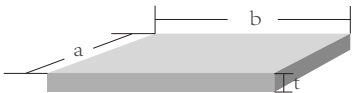
歐盟標準/國際標準 International Standard / European Standard
單位重量表 Unit Weight Table (Unit: kg/m)



尺寸 Size	厚度(美標) (mm) Thickness (American Standard) (mm)									
	0.8	0.9	1.0	1.2	1.5	1.5A	2.0	2.5	3.0	4.0
	厚度(英標) (mm) Thickness (British Standard) (mm)									
a x b (mm)	0.7	0.8	0.9	1.0	1.2	1.35	1.7	2.25	2.7	3.5
14 x 21	0.48	0.55	0.62	0.69	0.82	0.93	1.17	1.54	1.85	2.40
13 x 25	0.51	0.58	0.65	0.72	0.87	0.98	1.23	1.63	1.96	2.54
15 x 30	0.60	0.68	0.77	0.85	1.03	1.15	1.45	1.92	2.31	2.99
15 x 35	0.65	0.75	0.84	0.93	1.12	1.26	1.59	2.10	2.52	3.27
15 x 36	0.67	0.76	0.86	0.95	1.14	1.28	1.62	2.14	2.57	3.33
16 x 34	0.66	0.75	0.85	0.94	1.13	1.27	1.60	2.12	2.55	3.30
14 x 58	0.89	1.02	1.15	1.28	1.53	1.72	2.17	2.87	3.45	4.47
15 x 35	0.65	0.75	0.84	0.93	1.12	1.26	1.59	2.10	2.52	3.27
15.5 x 26	0.56	0.64	0.72	0.80	0.96	1.08	1.37	1.81	2.17	2.81
15.7 x 30	0.61	0.70	0.78	0.87	1.05	1.18	1.48	1.96	2.35	3.05
18 x 33	0.68	0.78	0.88	0.98	1.17	1.32	1.66	2.20	2.64	3.42
20 x 40	0.80	0.91	1.03	1.14	1.37	1.54	1.94	2.56	3.08	3.99
20 x 90	1.36	1.55	1.74	1.94	2.33	2.62	3.29	4.36	5.23	6.78
30 x 60	1.20	1.37	1.54	1.71	2.05	2.31	2.91	3.85	4.62	5.98
40 x 80	1.60	1.82	2.05	2.28	2.73	3.08	3.87	5.13	6.15	7.98
51 x 151	2.58	2.98	3.32	3.69	4.43	4.98	6.27	8.30	9.96	12.91
60 x 100	2.17	2.48	2.79	3.10	3.72	4.18	5.27	6.97	8.37	10.85

不銹鋼板

Stainless Steel Plates



歐洲標準 European Standard: EN 10088-2 美國標準 American Standard: ASTM A240/A240M

厚度 Thickness	重量 Sheet Weight (kg/sheet)						
	a x b (mm)						
t (mm)	1000 x 2000	1250 x 2500	1250 x 3000	1500 x 3000	1500 x 6000	2000 x 4000	2000 x 6000
0.4	6.4						
0.5	8.0	12.5	15.0				
0.6	9.6	15.0	18.0	21.6			
0.7	11.2	17.5	21.0	25.2			
0.8	12.8	20.0	24.0	28.8			
0.9	14.4	22.5	27.0	32.4			
1.0	16.0	25.0	30.0	36.0	72.0		
1.2	19.2	30.0	36.0	43.2	86.4	76.8	115.2
1.5	24.0	37.5	45.0	54.0	108.0	96.0	144.0
2.0	32.0	50.0	60.0	72.0	144.0	128.0	192.0
2.5	40.0	62.5	75.0	90.0	180.0	160.0	240.0
3.0	48.0	75.0	90.0	108.0	216.0	192.0	288.0
4.0	64.0	100.0	120.0	144.0	288.0	256.0	384.0
5.0	80.0	125.0	150.0	180.0	360.0	320.0	480.0
6.0	96.0	150.0	180.0	216.0	432.0	384.0	576.0
7.0	112.0	175.0	210.0	252.0	504.0	448.0	672.0
8.0	128.0	200.0	240.0	288.0	576.0	512.0	768.0
10.0	160.0	250.0	300.0	360.0	720.0	640.0	960.0
12.0	192.0	300.0	360.0	432.0	864.0	768.0	1152.0
15.0	240.0	375.0	450.0	540.0	1080.0	960.0	1440.0
20.0	320.0	500.0	600.0	720.0	1440.0	1280.0	1920.0
25.0	400.0	625.0	750.0	900.0	1800.0	1600.0	2400.0
30.0	480.0	750.0	900.0	1080.0	2160.0	1920.0	2880.0
40.0	640.0	1000.0	1200.0	1440.0	2880.0	2560.0	3840.0
50.0	800.0	1250.0	1500.0	1800.0	3600.0	3200.0	4800.0
60.0	960.0	1500.0	1800.0	2160.0	4320.0	3840.0	5760.0
70.0	1120.0	1750.0	2100.0	2520.0	5040.0	4480.0	6720.0
80.0	1280.0	2000.0	2400.0	2880.0	5760.0	5120.0	7680.0
90.0	1440.0	2250.0	2700.0	3240.0	6480.0	5760.0	8640.0
100.0	1600.0	2500.0	3000.0	3600.0	7200.0	6400.0	9600.0
110.0	1760.0	2750.0	3300.0	3960.0	7920.0	7040.0	10560.0

不銹鋼花紋鋼板

Stainless Steel Chequered Floor Plates



歐洲標準 European Standard: EN 10088-2 美國標準 American Standard: ASTM A240/A240M

厚度 Thickness	尺寸 Size	花紋高度 Height of Tears	重量 Sheet Weight
t (mm)	a x b (mm)	s (mm)	kg
2.0 + s	1250 x 2500	1.3~1.7	50.0
	1000 x 2000		52.7
3.0 + s	1000 x 3000	1.3~1.7	87.0
	1250 x 2500		83.5
	1250 x 3000		99.7
	1000 x 2000		70.6
4.0 + s	1000 x 4000	1.3~1.7	128.0
	1250 x 2500		104.0
	1500 x 3000		180.0
	1000 x 2000		94.0
5.0 + s	1250 x 2500	1.3~1.7	176.0
	1500 x 3000		212.0
6.0 + s	1250 x 3000	1.3~1.7	207.0

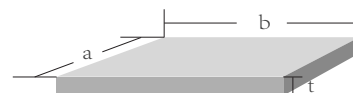
備註：

Remarks:

重量取決於花紋的高度s。 The weight depends on the height of tears (s) in the pattern.

設計板 Designed Plates

歐洲標準 European Standard: EN 10088-2 (DIN 17441)

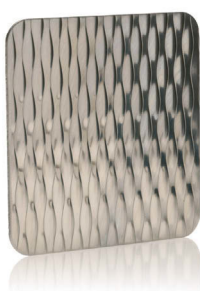


厚度 Thickness	重量 Sheet Weight (kg/sheet)			
	a x b (mm)			
t (mm)	1000 x 2000	1250 x 2500	1250 x 3000	1500 x 3000
0.80	12.80	20.00	24.00	28.80
1.00	16.00	25.00	30.00	36.00
1.25	20.00	31.25	37.50	45.00
1.50	24.00	37.50	45.00	54.00
2.00	32.00	50.00	60.00	72.00

圖案（單面） Patterns (one side)



2WL



5WL*



6WL*



亞麻圖案 Leinen



鑽石塊圖案 Diamond



菱形圖案 Rhombus



皮面圖案 Leather



冰花圖案 Ice flower

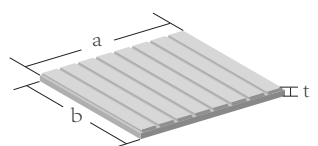


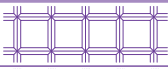
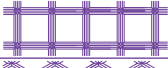
平行線圖案 Parallel lines

*圖案被壓在金屬板上，其餘的圖案背面是光滑的。

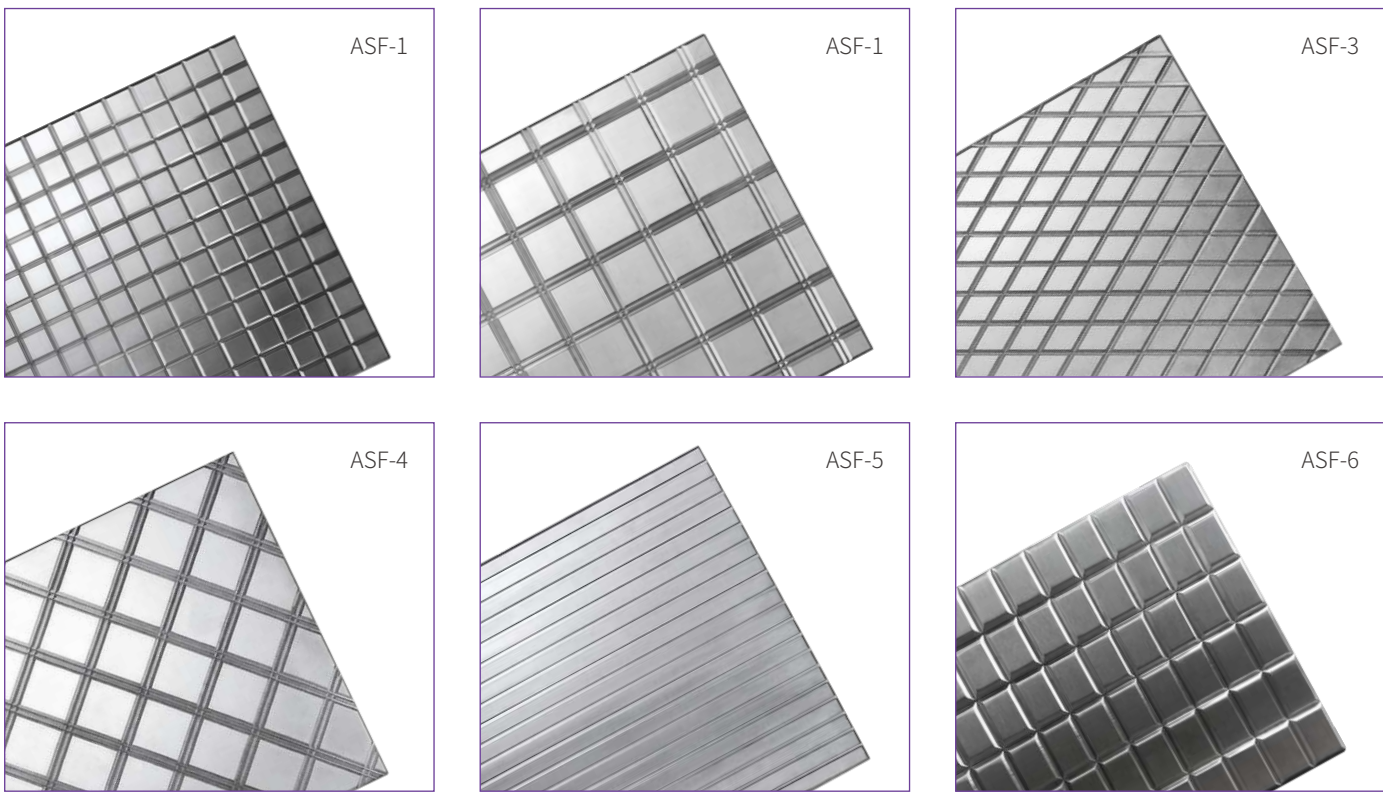
*The pattern is pressed into the sheet metal. With the remaining patterns, the reverse side is smooth.

不銹鋼防滑板 Stainless Steel Antiskid Plates



類型 Type	尺寸 Size	溝槽樣式 Groove Shape	溝槽類型 Groove Type	厚度 Thickness	溝槽寬度 Groove Width	溝槽深度 Groove Depth
	a x b (mm)			t (mm)	(mm)	(mm)
ASF-1	2400 x 1200		V Groove	3~4	5	1
				5~8	5	2
ASF-2	2400 x 1200		W Groove	3~4	5+5	1
				5~8	5+5	2
ASF-3	1200 x 1200		V Groove	3~4	5	1
				5~8	5	2
ASF-4	1200 x 1200		W Groove	3~4	5+5	1
				5~8	5+5	2
ASF-5	2400 x 1200		U Groove	3~4	3	1
				5~8	3	2
ASF-6	2400 x 1200		V Groove	3~4	5	1
				5~8	5	2

圖案（單面） Patterns (one side)



防滑性能測試標準 International Antiskid Test Report Standard:

中國標準 Chinese Standard: GB/T 4100-2006
 美國標準 American Standard: ASTM C 1028-07
 英國標準 British Standard: BS 7976-2: 2002
 澳洲標準 Australian Standard: AS/NZS 4586:2004
 德國標準 German Standard: DIN 51097-1992 DIN 51130-2004

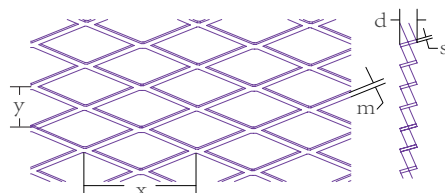
備註：
Remarks:

(1) 圖案背面是光滑的。 The reverse side is smooth.

(2) 特殊尺寸可接受定制。 Special dimensions was accepted on request.

不銹鋼擴張網 Stainless Steel Expanded Sheet

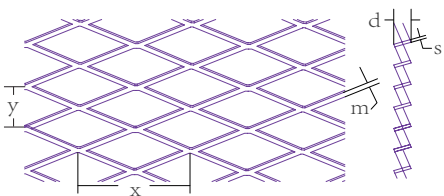
國際標準 International Standard: DIN 791, BS 405, BS 4592 Part 2



開口長度 Opening Lenght	開口寬度 Opening Width	鋼絞線寬度 Strand Width	鋼絞線厚度 Strand Thickness	擴張厚度 Expansion thickness	擴張寬度，可接受偏差±10% Expansion to width, Acceptable deviation ± 10 %							重量 Weight (7.85 kg/dm²)
y(mm)	x(mm) ±5%	m(mm) ±5%	S(mm) ±10%	d1(mm)	500mm	600mm	1000mm	1250mm	1500mm	2000mm	2500mm	kg/m²
4	2.0	0.50	0.30	0.80	x	x						1.20
4	2.0	0.50	0.50	1.00	x	x						2.00
4	2.0	0.70	0.50	1.30	x	x						2.80
4	2.0	1.00	0.50	1.60	x	x						3.90
5	3.0	0.50	0.40	0.90			x					1.06
5	3.0	0.60	0.50	1.00			x					1.65
5	3.0	0.60	0.60	1.20			x					1.92
5	3.0	0.70	0.60	1.30			x					2.24
6	3.0	0.50	0.50	1.00	x	x	x					1.30
6	3.0	0.70	0.50	1.30	x	x	x					1.80
6	3.0	1.00	0.50	1.40	x	x	x					2.60
6	3.0	1.25	0.50	1.70	x	x	x					3.30
6	3.0	1.50	0.50	2.00	x	x	x					4.00
6	3.0	1.25	0.80	2.20	x	x	x					5.30
6	3.5	0.50	0.50	0.90			x	x				1.14
6	3.5	0.60	0.50	1.00			x	x				1.37
6	3.5	0.70	0.60	1.20			x	x				1.92
6	3.5	1.00	0.60	1.70			x	x				2.75
8	4.0	0.50	0.50	0.90			x					1.00
8	4.0	0.80	0.60	1.20			x					1.90
8	4.0	1.00	0.80	1.70			x					3.20
8	4.0	1.20	1.00	2.10			x					4.80
10	4.4	1.50	0.30	1.80			x	x				1.60
10	5.0	2.00	0.40	2.00			x	x				2.50
10	4.8	2.00	0.50	3.50			x	x				3.30
10	5.0	0.80	0.60	1.50			x	x				1.50
10	5.0	1.20	1.00	2.40			x	x				3.80
10	8.0	0.80	0.60	1.50			x					0.98
10	8.0	1.00	0.80	1.90			x					1.60
10	8.0	1.20	1.00	2.20			x					2.40
10	8.0	1.50	1.00	2.90			x					3.00
12	6.0	0.80	0.50	1.40			x					1.06
12	6.0	1.00	0.50	1.60			x					1.33
12	6.0	1.20	0.80	2.10			x					2.55
12	6.0	1.50	1.00	2.80			x					4.00
16	6.0	1.50	0.50	2.50			x	x				2.00
16	6.0	2.00	0.60	2.80			x	x				3.20
16	6.0	1.50	0.80	2.50			x	x				3.20
16	6.0	2.00	1.00	3.50			x	x				5.30
16	8.0	1.00	0.80	1.30			x	x				2.00
16	8.0	1.50	0.50	2.60			x	x				1.50
16	8.0	1.50	1.00	2.80			x	x				3.00
16	8.0	2.00	1.00	3.40			x	x				4.00
16	8.0	2.00	1.50	4.30			x	x				6.00
16	11.0	1.00	0.80	0.90			x					1.16
16	11.0	1.20	1.00	2.10			x					1.75
16	11.0	1.50	1.00	2.70			x					2.18
16	11.0	1.50	1.25	2.80			x					2.73

不銹鋼擴張網 (續)
Stainless Steel Expanded Sheet (Continued)

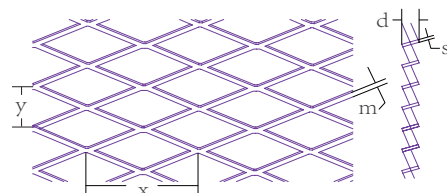
國際標準 International Standard: DIN 791, BS 405, BS 4592 Part 2



開口長度 Opening Lenght	開口寬度 Opening Width	鋼絞線寬度 Strand Width	鋼絞線厚度 Strand Thickness	擴張厚度 Expansion thickness	擴張寬度，可接受偏差±10% Expansion to width, Acceptable deviation ± 10 %							重量 Weight (7.85 kg/dm²)
					500mm	600mm	1000mm	1250mm	1500mm	2000mm	2500mm	
y(mm)	x(mm) ±5%	m(mm) ±5%	S(mm) ±10%	d1(mm)								kg/m²
16	13.0	0.80	0.50	1.50			x					0.50
16	13.0	1.00	0.80	1.90			x					1.00
16	13.0	1.20	1.00	2.20			x					1.50
16	13.0	1.50	1.25	1.80			x					2.30
20	8.0	1.50	1.00	2.80			x	x				3.00
20	8.0	2.00	1.00	3.30			x	x				4.00
20	8.0	2.50	1.00	3.70			x	x				5.00
20	8.0	2.00	1.50	4.30			x	x				6.00
28	10.0	2.00	1.00	3.60			x	x				3.20
28	10.0	2.50	1.00	4.10			x	x				4.00
28	10.0	2.50	1.50	4.40			x	x				6.00
28	10.0	3.00	2.00	5.40			x	x				9.60
28	12.0	1.50	1.50	3.70			x	x	x	x	x	3.00
28	12.0	2.00	1.00	3.80			x	x	x	x	x	2.70
28	12.0	2.50	1.00	4.00			x	x	x	x	x	3.30
28	12.0	3.00	2.00	5.80			x	x	x	x	x	8.00
28	15.0	1.20	1.00	2.10			x	x				1.28
28	15.0	1.50	1.25	2.70			x	x				2.00
28	15.0	1.50	1.50	2.70			x	x				2.40
28	15.0	2.00	1.50	3.60			x	x				3.20
30	12.0	1.50	1.00	2.80			x	x				2.00
30	12.0	1.50	1.50	2.80			x	x				3.00
30	13.0	2.00	1.50	3.70			x	x				3.70
30	13.0	2.50	2.00	4.80			x	x				6.15
35	15.0	1.50	1.00	2.80			x	x	x	x		2.00
35	15.0	1.70	1.25	2.80			x	x	x	x		3.00
35	15.0	2.00	1.50	3.70			x	x	x	x		3.70
35	15.0	2.50	2.00	4.80			x	x	x	x		6.15
39	18.0	1.50	1.00	2.50			x	x	x	x	x	1.35
39	18.0	2.00	1.50	3.00			x	x	x	x	x	2.70
39	18.0	3.00	3.00	5.00			x	x	x	x	x	8.00
39	18.0	5.00	4.00	8.50			x	x	x	x	x	17.80
42	12.0	2.50	1.00	4.50			x	x	x	x	x	3.30
42	13.0	3.00	2.00	5.50			x	x	x	x	x	7.40
42	12.0	2.00	1.50	5.00			x	x	x	x	x	4.00
42	15.0	1.50	1.00	2.70			x	x	x	x		1.60
42	15.0	1.70	1.25	3.20			x	x	x	x		2.20
42	15.0	2.00	1.50	3.70			x	x	x	x		3.20
42	15.0	2.50	2.00	4.70			x	x	x	x		5.33
42	20.0	1.50	1.50	2.70			x	x	x	x		1.00
42	20.0	1.50	1.25	2.70			x	x	x	x		1.50
42	20.0	2.00	1.50	3.70			x	x	x	x		2.40
42	20.0	2.50	2.00	4.70			x	x	x	x		4.00
52	24.0	2.00	2.00	4.70			x	x	x	x	x	2.60
52	24.0	3.00	3.00	6.00			x	x	x	x	x	6.10
52	24.0	3.50	1.50	7.00			x	x	x	x	x	3.50
52	24.0	6.00	4.00	9.00			x	x	x	x	x	16.00

不銹鋼擴張網 (續) Stainless Steel Expanded Sheet (Continued)

國際標準 International Standard: DIN 791, BS 405, BS 4592 Part 2

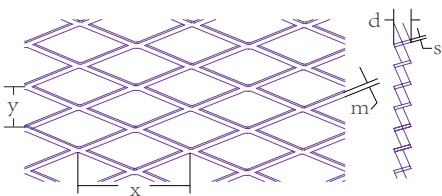


開口長度 Opening Lenght	開口寬度 Opening Width	鋼絞線寬度 Strand Width	鋼絞線厚度 Strand Thickness	擴張厚度 Expansion thickness	擴張寬度, 可接受偏差±10% Expansion to width, Acceptable deviation ± 10 %							重量 Weight (7.85 kg/dm ²)
y(mm)	x(mm) ±5%	m(mm) ±5%	S(mm) ±10%	d1(mm)	500mm	600mm	1000mm	1250mm	1500mm	2000mm	2500mm	kg/m ²
62	20.0	2.50	1.00	5.00			x	x	x	x	x	2.00
62	21.0	2.50	2.00	5.00			x	x	x	x	x	3.80
62	21.0	3.00	3.00	6.20			x	x	x	x	x	6.90
62	21.0	4.50	3.00	8.70			x	x	x	x	x	10.30
62	23.0	7.00	3.00	12.00			x	x	x	x	x	14.60
62	25.0	2.50	1.00	4.80			x	x	x	x	x	1.60
62	25.0	2.50	2.00	5.00			x	x	x	x	x	3.20
62	25.0	3.00	3.00	6.40			x	x	x	x	x	5.70
62	25.0	4.50	3.00	9.00			x	x	x	x	x	8.70
62	25.0	4.00	4.00	8.00			x	x	x	x	x	10.20
62	25.0	9.00	4.00	14.00			x	x	x	x	x	23.00
62	30.0	2.00	1.00	3.80			x	x	x	x	x	1.06
62	30.0	3.00	1.50	5.90			x	x	x	x	x	2.40
62	30.0	3.00	2.00	6.20			x	x	x	x	x	3.20
62	30.0	3.00	3.00	6.20			x	x	x	x	x	4.80
62	30.0	3.50	3.00	7.40			x	x	x	x	x	5.60
62	30.0	5.00	4.00	13.00			x	x	x	x	x	10.66
66	23.0	2.50	1.00	4.80			x	x	x	x	x	1.80
66	23.0	2.00	2.00	5.00			x	x	x	x	x	2.70
66	23.0	3.00	3.00	6.70			x	x	x	x	x	6.50
66	23.0	4.50	3.00	8.50			x	x	x	x	x	9.40
66	23.0	6.00	3.00	11.00			x	x	x	x	x	12.50
66	23.0	7.00	3.00	13.30			x	x	x	x	x	14.60
66	23.0	4.50	4.00	12.00			x	x	x	x	x	12.50
66	23.0	7.00	5.00	14.00			x	x	x			24.40
76	34.0	1.50	1.00	2.60			x	x	x	x	x	0.70
76	34.0	2.00	1.50	3.90			x	x	x	x	x	1.41
76	34.0	3.00	2.00	5.80			x	x	x	x	x	2.82
76	34.0	5.00	3.00	11.20			x	x	x	x	x	7.00
76	34.0	6.00	4.00	12.20			x	x	x	x	x	11.30
88	40.0	5.00	5.00	3.00			x	x				3.30
88	40.0	6.00	6.00	1.50			x	x				7.40
88	40.0	4.00	4.00	2.00			x	x				4.00
90	40.0	2.00	1.50	3.60				x	x	x	x	1.20
90	40.0	3.00	2.00	5.70				x	x	x	x	2.40
90	40.0	4.00	3.00	7.70				x	x	x	x	4.80
90	40.0	5.00	4.00	9.80				x	x	x	x	8.00
115	40.0	3.00	1.50	6.00			x	x	x	x	x	1.80
115	40.0	3.00	2.00	6.00			x	x	x	x	x	2.40
115	40.0	3.00	3.00	6.20			x	x	x	x	x	3.60
115	40.0	4.50	3.00	9.00			x	x	x	x	x	5.40
115	40.0	7.00	4.00	13.70			x	x	x	x	x	11.20
115	40.0	8.00	4.00	15.00			x	x	x	x	x	14.20
115	40.0	8.00	5.00	14.80			x	x	x	x	x	16.00
137	50.0	3.00	3.00	6.00			x	x	x	x	x	2.90
137	50.0	4.50	3.00	9.00			x	x	x	x	x	4.30
137	50.0	6.00	3.00	12.00			x	x	x	x	x	5.80
137	50.0	6.00	4.00	13.00			x	x	x	x	x	7.70
137	50.0	8.00	5.00	14.00			x	x	x	x	x	12.80
137	50.0	8.00	6.00	17.00			x	x	x	x	x	15.40

不銹鋼擴張網 (續)

Stainless Steel Expanded Sheet (Continued)

國際標準 International Standard: DIN 791, BS 405, BS 4592 Part 2

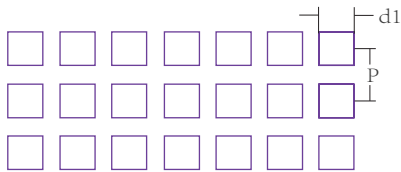


開口長度 Opening Lenght	開口寬度 Opening Width	鋼絞線寬度 Strand Width	鋼絞線厚度 Strand Thickness	擴張厚度 Expansion thickness	擴張寬度，可接受偏差±10% Expansion to width, Acceptable deviation ± 10 %							重量 Weight (7.85 kg/dm²)
y(mm)	x(mm) ±5%	m(mm) ±5%	S(mm) ±10%	d1(mm)	500mm	600mm	1000mm	1250mm	1500mm	2000mm	2500mm	kg/m²
200	75.0	3.00	2.00	6.00			x	x	x	x	x	1.28
200	75.0	4.50	3.00	9.20			x	x	x	x	x	2.90
200	75.0	6.00	3.00	12.20			x	x	x	x	x	3.90
200	75.0	6.00	4.00	12.40			x	x	x	x	x	5.10
200	75.0	7.00	5.00	14.00			x	x	x	x	x	7.50
200	75.0	8.00	6.00	17.00			x	x	x	x	x	10.25
200	100.0	3.00	3.00	8.00			x	x	x	x	x	1.40
200	100.0	4.00	3.00	8.50			x	x	x	x	x	1.90
200	100.0	5.00	4.00	11.00			x	x	x	x	x	3.20
200	100.0	6.00	4.00	11.80			x	x	x	x	x	3.90
200	100.0	6.00	5.00	11.90			x	x	x	x	x	4.80
200	100.0	8.00	5.00	12.80			x	x	x	x	x	6.40
200	100.0	7.00	6.00	13.50			x	x	x	x	x	6.70
200	100.0	9.00	6.00	17.00			x	x	x	x	x	8.60
200	100.0	10.00	6.00	19.50			x	x	x	x	x	9.60

沖孔板

Perforated Plates

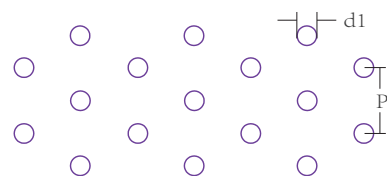
歐洲標準 European Standard: EN 10088-2 (DIN 17441)



厚度 Thickness	尺寸 Size	穿孔直徑 Perforation	孔間距 Spacing	孔數/平方分米 Number of Holes/dm²	開放面積 Open Area
t(mm)	a x b(mm)	d1(mm)	P(mm)		%
0.8	1000 x 2000	5.00	7.00	204	51.00
		8.00	10.00	100	64.00
		10.00	13.00	59	59.20
1.0	1000 x 2000	5.00	7.00	204	51.00
		8.00	10.00	100	64.00
		10.00	13.00	59	59.20
1.5	1000 x 2000	5.00	7.00	204	51.00
		8.00	10.00	100	64.00
		10.00	13.00	59	59.20

冲孔板 Perforated Plates

歐洲標準 European Standard: EN 10088-2 (DIN 17441)



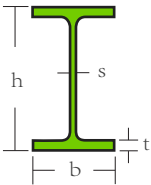
厚度 Thickness	尺寸 Size	穿孔直徑 Perforation	孔間距 Spacing	孔數/平方分米 Number of Holes/dm ²	開放面積 Open Area
t(mm)	a x b(mm)	d1(mm)	P(mm)		%
0.5	1000 x 2000	0.80	1.80	3770	19.00
		1.00	2.30	2170	18.60
		1.50	2.50	1840	32.70
		2.00	3.50	940	30.00
		3.00	5.00	460	32.70
		4.00	6.00	320	40.00
		5.00	8.00	180	35.50
		6.00	9.00	142	40.00
		8.00	12.00	80	40.00
		10.00	15.00	51	40.00
0.8	1000 x 2000	1.00	2.00	2880	22.50
		1.50	2.50	1840	32.70
		2.00	3.50	940	30.00
		2.50	4.00	720	35.40
		3.00	5.00	460	32.70
		4.00	6.00	320	40.00
		5.00	8.00	180	35.50
		6.00	9.00	142	40.00
		8.00	12.00	80	40.00
		10.00	15.00	51	40.00
1.0	1000 x 2000	1.00	2.30	2170	18.60
		1.50	2.50	1840	32.70
		2.00	3.50	940	30.00
		2.50	4.00	720	35.40
		3.00	5.00	460	32.70
		4.00	6.00	320	40.00
		5.00	8.00	180	35.50
		6.00	9.00	142	40.00
		8.00	12.00	80	40.00
		10.00	15.00	51	40.00
1.5	1000 x 2000	1.50	3.00	1280	22.70
		2.00	3.50	940	30.00
		2.50	4.00	720	35.40
		3.00	5.00	460	32.70
		4.00	6.00	320	40.00
		5.00	8.00	180	35.50
		6.00	9.00	142	40.00
		8.00	12.00	80	40.00
		10.00	15.00	51	40.00
2.0	1000 x 2000	2.00	4.50	567	16.80
		3.00	5.00	460	32.70
		4.00	6.00	320	40.00
		5.00	8.00	180	35.50
		6.00	9.00	142	40.00
		8.00	12.00	80	40.00
		10.00	15.00	51	40.00
3.0	1000 x 2000	3.00	6.00	320	22.50
		4.00	6.00	320	40.00
		5.00	8.00	180	35.50
		6.00	9.00	142	40.00
		8.00	12.00	80	40.00
		10.00	15.00	51	40.00

工字不銹鋼(不等邊)

Stainless Steel Universal Beams

符合ASTM A1069, 尺寸公差和等級符合ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

According to ASTM A1069, dimension tolerance and grade according to
ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

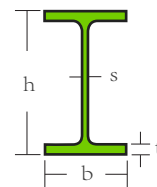


尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
UB 127 x 76 x 13	13.2	127	76	4	7.6
UB 152 x 89 x 16	16.2	152.4	88.7	4.5	7.7
UB 178 x 102 x 19	19.4	177.8	101.2	4.8	7.9
UB 203 x 102 x 24	23.5	203.2	101.8	5.4	9.3
UB 203 x 133 x 26	25.5	203.2	133.2	5.7	7.8
UB 203 x 133 x 31	31.1	206.8	133.9	6.4	9.6
UB 254 x 102 x 22	22.4	254	101.6	5.7	6.8
UB 254 x 102 x 26	25.6	257.2	101.9	6	8.4
UB 254 x 102 x 29	28.8	260.4	102.2	6.3	10
UB 254 x 146 x 32	31.7	251.4	146.1	6	8.6
UB 254 x 146 x 38	37.6	256	146.4	6.3	10.9
UB 254 x 146 x 44	43.7	259.6	147.3	7.2	12.7
UB 305 x 102 x 25	25.2	305.1	101.6	5.8	7
UB 305 x 102 x 29	28.6	308.7	101.8	6	8.8
UB 305 x 102 x 33	33.4	312.7	102.4	6.6	10.8
UB 305 x 127 x 38	37.6	304.4	123.4	7.1	10.7
UB 305 x 127 x 43	42.6	307.2	124.3	8	12.1
UB 305 x 127 x 49	48.9	311	125.3	9	14
UB 305 x 165 x 41	41.0	303.4	165	6	10.2
UB 305 x 165 x 47	46.9	306.6	165.7	6.7	11.8
UB 305 x 165 x 55	54.9	310.4	166.9	7.9	13.7
UB 356 x 127 x 34	33.6	349	125.4	6	8.5
UB 356 x 127 x 40	39.7	353.4	126	6.6	10.7
UB 356 x 171 x 46	45.7	351.4	171.1	7	9.7
UB 356 x 171 x 52	51.8	355	171.5	7.4	11.5
UB 356 x 171 x 58	57.9	358	172.2	8.1	13
UB 356 x 171 x 68	68.2	363.4	173.2	9.1	15.7
UB 406 x 140 x 40	39.6	398	141.8	6.4	8.6
UB 406 x 140 x 47	46.8	403.2	142.2	6.8	11.2
UB 406 x 178 x 55	55.0	402.6	177.7	7.7	10.9
UB 406 x 178 x 61	61.1	406.4	177.9	7.9	12.8
UB 406 x 178 x 68	68.3	409.4	178.8	8.8	14.3
UB 406 x 178 x 75	75.4	412.8	179.5	9.5	16
UB 457 x 152 x 53	53.2	449.8	152.4	7.6	10.9
UB 457 x 152 x 61	60.8	454.6	152.9	8.1	13.3
UB 457 x 152 x 68	68.3	458	153.8	9	15
UB 457 x 152 x 75	75.4	462	154.4	9.6	17
UB 457 x 152 x 83	83.4	465.8	155.3	10.5	18.9
UB 457 x 191 x 68	68.2	453.4	189.9	8.5	12.7
UB 457 x 191 x 75	75.5	457	190.4	9	14.5
UB 457 x 191 x 83	83.4	460	191.3	9.9	16
UB 457 x 191 x 91	90.8	463.4	191.9	10.5	17.7
UB 457 x 191 x 100	100.0	467.2	192.8	11.4	19.6

工字不銹鋼(不等邊) (續) Stainless Steel Universal Beams (Continued)

符合ASTM A1069, 尺寸公差和等級符合ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

According to ASTM A1069, dimension tolerance and grade according to
ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1



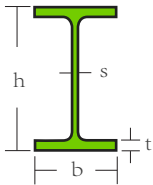
尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
UB 533 x 210 x 84	83.6	528.3	208.8	9.6	13.2
UB 533 x 210 x 94	93.7	533.1	209.3	10.1	15.6
UB 533 x 210 x 103	102.7	536.7	210	10.8	17.4
UB 533 x 210 x 111	110.8	539.5	210.8	11.6	18.8
UB 533 x 210 x 124	124.0	544.5	211.9	12.7	21.3
UB 610 x 229 x 103	102.9	602.6	227.6	10.5	14.8
UB 610 x 229 x 115	114.8	607.6	228.2	11.1	17.3
UB 610 x 229 x 127	127.1	612.2	229	11.9	19.6
UB 610 x 229 x 142	142.2	617.2	230.2	13.1	22.1
UB 610 x 305 x 152	151.6	612.4	304.8	11.8	19.7
UB 610 x 305 x 182	182.0	620.2	307.1	14.1	23.6
UB 610 x 305 x 242	242.0	635.8	311.4	18.4	31.4
UB 686 x 254 x 127	127.3	677.9	253	11.7	16.2
UB 686 x 254 x 142	142.4	683.5	253.7	12.4	19
UB 686 x 254 x 155	154.9	687.5	254.5	13.2	21
UB 686 x 254 x 173	173.0	692.9	255.8	14.5	23.7
UB 762 x 267 x 149	149.4	754	265.2	12.8	17.5
UB 762 x 267 x 176	175.9	762.2	266.7	14.3	21.6
UB 762 x 267 x 200	200.0	769.8	268	15.6	25.4
UB 838 x 292 x 179	178.8	834.9	291.7	14	18.8
UB 838 x 292 x 197	196.9	840.7	292.4	14.7	21.7
UB 838 x 292 x 230	230.3	850.9	293.8	16.1	26.8
UB 914 x 305 x 204	204.2	903	303.3	15.1	20.2
UB 914 x 305 x 228	227.9	910.4	304.1	15.9	23.9
UB 914 x 305 x 258	257.6	918.4	305.5	17.3	27.9
UB 914 x 305 x 294	293.9	926.6	307.7	19.5	32
UB 914 x 419 x 349	349.0	911.8	418.5	19.4	32
UB 914 x 419 x 394	394.4	921	420.5	21.4	36.6
UB 1016 x 305 x 225	225.2	970.3	300	16	21.1
UB 1016 x 305 x 253	252.8	980	300	16.5	26
UB 1016 x 305 x 277	276.7	990.1	300	16.5	31
UB 1016 x 305 x 319	319.2	1000	300	19.1	35.9
UB 1016 x 305 x 355	354.5	1008.1	302	21.1	40
UB 1016 x 305 x 399	399.2	1016	303	24.4	43.9
UB 1016 x 305 x 422	421.9	1020	304	26	46
UB 1016 x 305 x 445	444.6	1026	305	27	49
UB 1016 x 305 x 502	502.0	1036	309	31	54
UB 1016 x 305 x 594	593.5	1056	314	36	64

工字不銹鋼 (不等邊)

Stainless Steel Universal Beams (Continued)

符合ASTM A1069, 尺寸公差和等級符合ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

According to ASTM A1069, dimension tolerance and grade according to
ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1



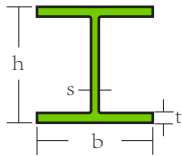
尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
610 UB	127.7	612	229	11.9	19.6
	115.7	607	228	11.2	17.3
	103.7	602	228	10.6	14.8
530 UB	94.2	533	209	10.2	15.6
	83.8	528	209	9.6	13.2
460 UB	83.8	460	191	9.9	16.0
	76.0	457	190	9.1	14.5
	68.5	454	190	8.5	12.7
410 UB	60.1	406	178	7.8	12.8
	55.0	403	178	7.6	10.9
360 UB	57.8	359	172	8.0	13.0
	51.6	356	171	7.3	11.5
	45.6	352	171	6.9	9.7
310 UB	47.3	307	166	6.7	11.8
	41.6	304	165	6.1	10.2
	32.6	298	149	5.5	8.0
250 UB	37.9	256	146	6.4	10.9
	32.0	252	146	6.1	8.6
	26.1	248	124	5.0	8.0
200 UB	30.5	207	134	6.3	9.6
	25.8	203	133	5.8	7.8
	22.9	202	133	5.0	7.0
	18.5	198	99	4.5	7.0
	22.5	179	90	6.0	10.0
180 UB	18.4	175	90	5.0	8.0
	16.3	173	90	4.5	7.0
150 UB	18.4	155	75	6.0	9.5
	14.2	150	75	5.0	7.0

工字不銹鋼 (等邊)

Stainless Steel Universal Columns

符合ASTM A1069, 尺寸公差和等級符合ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

According to ASTM A1069, dimension tolerance and grade according to
ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

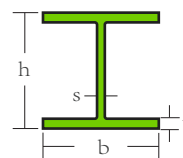


尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
UC 152 x 152 x 23	23.3	152.4	152.2	5.8	6.8
UC 152 x 152 x 31	30.5	157.6	152.9	6.5	9.4
UC 152 x 152 x 38	37.6	161.8	154.4	8	11.5
UC 203 x 203 x 47	46.9	203.2	203.6	7.2	11
UC 203 x 203 x 53	52.9	206.2	204.3	7.9	12.5
UC 203 x 203 x 61	60.9	209.6	205.8	9.4	14.2
UC 203 x 203 x 72	72.2	215.8	206.4	10	17.3
UC 203 x 203 x 88	87.5	222.2	209.1	12.7	20.5

工字不銹鋼(等邊) (續) Stainless Steel Universal Columns (Continued)

符合ASTM A1069, 尺寸公差和等級符合ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

According to ASTM A1069, dimension tolerance and grade according to
ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

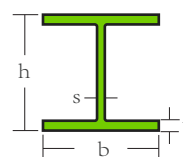


尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
UC 254 x 254 x 74	74.3	254.1	254.6	8.6	14.2
UC 254 x 254 x 90	90.4	260.3	256.3	10.3	17.3
UC 254 x 254 x 109	108.8	266.7	258.8	12.8	20.5
UC 254 x 254 x 134	134.1	276.3	261.3	15.3	25.3
UC 254 x 254 x 170	169.9	289.1	265.2	19.2	31.7
UC 305 x 305 x 99	98.5	307.9	305.3	9.9	15.4
UC 305 x 305 x 120	119.9	314.5	307.4	12	18.7
UC 305 x 305 x 139	139.2	320.5	309.2	13.8	21.7
UC 305 x 305 x 161	160.7	327.1	311.2	15.8	25
UC 305 x 305 x 201	201.4	339.9	314.5	19.1	31.4
UC 305 x 305 x 244	244.0	352.5	318.4	23	37.7
UC 305 x 305 x 288	287.6	365.3	322.2	26.8	44.1
UC 356 x 368 x 131	131.1	355.6	368.6	10.4	17.5
UC 356 x 368 x 156	155.5	362	370.5	12.3	20.7
UC 356 x 368 x 180	179.9	368.2	372.6	14.4	23.8
UC 356 x 368 x 205	205.2	374.6	374.7	16.5	27
UC 356 x 406 x 239	238.6	381	394.8	18.4	30.2
UC 356 x 406 x 292	291.8	393.6	399	22.6	36.5
UC 356 x 406 x 346	345.5	406.4	403	26.6	42.9
UC 356 x 406 x 400	399.5	419	407	30.6	49.2
UC 356 x 406 x 475	474.7	436.6	412.2	35.8	58

工字不銹鋼(等邊) Stainless Steel Universal Columns

符合ASTM A1069, 尺寸公差和等級符合ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

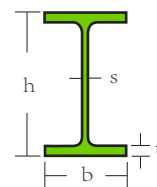
According to ASTM A1069, dimension tolerance and grade according to
ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1



尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
310 UC	160.4	327	311	25.0	15.7
	139.7	321	309	21.7	13.8
	119.7	315	307	18.7	11.9
	98.9	308	305	15.4	9.9
250 UC	91.0	260	256	17.3	10.5
	74.4	254	254	14.2	8.6
200 UC	60.8	210	205	14.2	9.3
	53.1	206	204	12.5	8.0
	47.1	203	203	11.0	7.3
150 UC	37.7	162	154	11.5	8.1
	30.8	158	153	9.4	6.6
	23.8	152	152	6.8	6.1
100 UC	15.1	97	99	7.0	5.0

IPE工字不銹鋼 Stainless Steel IPE Profiles

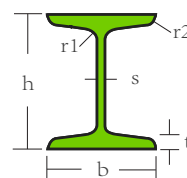
德國標準 Germany Standard: DIN 1025



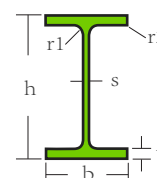
尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
IPE 80	6.10	46	80	3.8	5.2
IPE 100	8.10	55	100	4.1	6.3
IPE 120	10.40	64	120	4.4	6.3
IPE 140	12.90	73	140	4.7	6.9
IPE 160	15.80	82	160	5.0	7.4
IPE 180	18.80	91	180	5.3	8.0
IPE 200	22.40	100	200	5.6	8.5
IPE 220	25.20	110	220	5.9	9.2
IPE 240	29.40	120	240	6.2	9.8
IPE 270	35.20	135	270	6.6	10.2
IPE 300	41.40	150	300	7.1	10.7
IPE 330	47.30	160	330	7.5	11.5
IPE 360	56.00	170	360	8.0	12.7
IPE 400	63.60	180	400	8.6	13.5

IPN工字不銹鋼 Stainless Steel IPN Profiles

歐洲標準 European Standard: EN 10365



Hot Rolled



Laser Welded

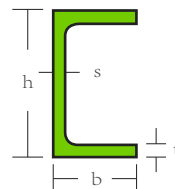
尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness	半徑 Radius	
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)	r1(mm)	r2(mm)
IPN 80	6.1	80	42	3.9	5.9	3.9	2.3
IPN 80*	6.1	80	42	3.9	5.9	2	<1
IPN 100	8.48	100	50	4.5	6.8	4.5	2.7
IPN 100*	8.6	100	50	4.5	6.8	2	<1
IPN 120	11.36	120	58	5.1	7.7	5.1	3.1
IPN 120*	11.4	120	58	5.1	7.7	2	<1
IPN 140	14.56	140	66	5.7	8.6	5.7	3.4
IPN 140*	14.7	140	66	5.7	8.6	2	<1
IPN 160	18.24	160	74	6.3	9.5	6.3	3.8
IPN 160*	18.4	160	74	6.3	9.5	2	<1
IPN 180	22.32	180	82	6.9	10.4	6.9	4.1
IPN 180*	22.5	180	82	6.9	10.4	2	<1
IPN 200	26.72	200	90	7.5	11.3	7.5	4.5
IPN 200*	26.9	200	90	7.5	11.3	2	<1
IPN 220 ⁺	31.8	220	98	8.1	12.2	2	<1
IPN 240 ⁺	37.1	240	106	8.7	13.1	2	<1
IPN 260 ⁺	43	260	113	9.4	14.1	2	<1
IPN 280 ⁺	49.1	280	119	10.1	15.2	2	<1
IPN 300 ⁺	55.5	300	125	10.8	16.2	2	20
IPN 320 ⁺	62.5	320	131	11.5	17.3	2	<1
IPN 340 ⁺	69.8	340	137	12.2	18.3	2	<1
IPN 360 ⁺	78	360	143	13	19.5	2	<1

標*的型材也可提供，標+的僅提供激光全焊，無錐度，等同於熱軋（r=激光焊縫）。

Profiles are * also available or + only available as laser welded with full penetration, non tapered, equivalent to hot rolled (r = laser seam).

不銹鋼槽鋼(方腳) Stainless Steel Channels (Parallel Flange)

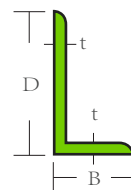
歐洲標準 European standard: EN 10365



尺寸 Designation	單位重量 Mass per Unit Length	高度 Depth of Section	寬度 Width of Section	腰厚 Web Thickness	腿厚 Flange Thickness
	kg/m	h(mm)	b(mm)	s(mm)	t(mm)
430 x 100 x 64	64.9	430	100	11.0	19.0
380 x 100 x 54	54.2	380	100	9.5	17.5
300 x 100 x 46	45.6	300	100	9.0	16.5
300 x 90 x 41	41.7	300	90	9.0	15.5
260 x 90 x 35	35.0	260	90	8.0	14.0
260 x 75 x 28	27.6	260	75	7.0	12.0
230 x 90 x 32	32.3	230	90	7.5	14.0
230 x 75 x 26	25.7	230	75	6.5	12.5
200 x 90 x 30	29.8	200	90	7.0	14.0
200 x 75 x 23	23.4	200	75	6.0	12.5
180 x 90 x 26	26.1	180	90	6.5	12.5
180 x 75 x 20	20.2	180	75	6.0	10.5
150 x 90 x 24	23.8	150	90	6.5	12.0
150 x 75 x 18	17.7	150	75	5.5	10.0
125 x 65 x 15	14.6	125	65	5.5	9.5
100 x 50 x 10	10.1	100	50	5.0	8.5

不銹鋼角鐵(不等邊) Stainless Steel Unequal Angles

歐洲標準 European Standard: EN10088-3 美國標準 American Standard: ASTM A276-2002

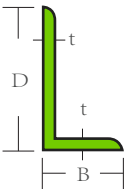


尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
40 x 25	4.0	1.95
40 x 30	3.0	1.63
	4.0	2.14
	5.0	2.63
45 x 30	3.0	1.77
	4.0	2.31
	5.0	2.84
50 x 20	4.0	2.11
50 x 25	3.0	1.73
	4.0	2.23
50 x 30	3.0	1.89
	4.0	2.47
	5.0	3.04
50 x 40	3.0	2.13
	4.0	2.79
	5.0	3.50
60 x 30	5.0	3.45
	6.0	4.09
	7.0	4.70
60 x 40	5.0	3.85
	6.0	4.57
	8.0	5.87

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
65 x 40	7.0	5.49
65 x 50	5.0	4.47
	7.0	6.12
	9.0	7.70
70 x 50	6.0	5.54
	7.0	6.40
	8.0	7.24
	9.0	8.06
75 x 50	6.0	5.78
	7.0	6.68
	8.0	7.56
75 x 55	5.0	5.00
	6.0	6.02
	7.0	6.96
	8.0	7.88
	9.0	8.78
80 x 40	6.0	5.56
	8.0	7.25
80 x 65	6.0	6.76
	8.0	8.85
	10.0	10.89
90 x 60	6.0	7.02
	8.0	9.19

不銹鋼角鐵 (不等邊) (續) Stainless Steel Unequal Angles (Continued)

歐洲標準 European Standard: EN10088-3 美國標準 American Standard: ASTM A276-2002

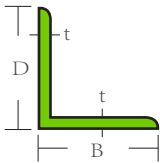


尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
90 x 75	7.0	8.70
	9.0	11.20
100 x 50	6.0	7.04
	8.0	9.21
	10.0	11.32
100 x 65	6.0	7.76
	7.0	8.97
	8.0	10.17
	9.0	11.36
100 x 75	10.0	12.52
	6.0	8.24
	7.0	9.53
	8.0	10.81
120 x 80	9.0	12.08
	10.0	13.32
	6.0	9.46
	8.0	12.43
130 x 65	10.0	15.35
	12.0	17.80
	6.0	9.24
	8.0	12.14
130 x 75	10.0	14.97
	6.0	9.72
	8.0	12.78
	10.0	15.77
130 x 90	10.0	16.97
	12.0	20.14

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
140 x 90	8.0	14.40
	10.0	17.79
	12.0	21.12
150 x 75	8.0	14.11
	10.0	17.42
150 x 90	10.0	18.62
	11.0	20.37
	12.0	22.11
150 x 100	8.0	15.74
	10.0	19.45
	12.0	23.10
160 x 100	8.0	15.10
	10.0	18.65
	12.0	22.14
180 x 90	8.0	17.05
	10.0	21.08
	12.0	25.05
200 x 100	8.0	19.03
	10.0	23.54
	12.0	27.99
	13.0	29.80
	15.0	34.54
200 x 150	16.0	36.70
	12.0	32.79
	15.0	40.54

不銹鋼角鐵 (等邊) Stainless Steel Equal Angles

歐洲標準 European Standard: EN10088-3 美國標準 American Standard: ASTM A276-2002

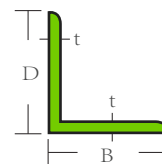


尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
30 x 30	3.0	1.39
	4.0	1.81
	5.0	2.22
	6.0	2.61
35 x 35	4.0	2.13
	5.0	2.62
40 x 40	3.0	1.88
	4.0	2.46
	5.0	3.03
	6.0	3.58
45 x 45	8.0	4.60
	3.0	2.13
	4.0	2.79
	5.0	3.44

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
50 x 50	3.0	2.37
	4.0	3.11
	5.0	3.80
	6.0	4.52
	7.0	5.21
	8.0	5.89
55 x 55	10.0	7.18
	6.0	5.00
60 x 60	4.0	3.9
	5.0	4.60
	6.0	5.48
	7.0	6.33
	8.0	7.17
	10.0	8.80

不銹鋼角鐵(等邊)(續) Stainless Steel Equal Angles (Continued)

歐洲標準 European Standard: EN10088-3 美國標準 American Standard: ASTM A276-2002



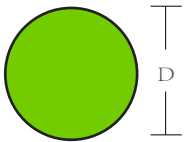
尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
65 x 65	5.0	5.03
	5.5	5.43
	6.0	5.96
	7.0	6.89
	8.0	7.81
	9.0	8.72
70 x 70	5.0	5.42
	6.0	6.44
	7.0	7.45
	8.0	8.45
	10.0	10.40
75 x 75	5.0	5.82
	6.0	6.92
	7.0	8.01
	8.0	9.09
	9.0	10.16
	10.0	11.20
80 x 80	6.0	7.40
	8.0	9.73
	10.0	12.00
	12.0	14.00
90 x 90	6.0	8.36
	7.0	9.69
	8.0	11.01
	9.0	12.32
	10.0	13.60
100 x 100	6.0	9.32
	7.0	10.81
	8.0	12.40
	9.0	13.76
	10.0	15.20
	12.0	18.05
	13.0	19.40
110 x 110	6.0	10.30
	8.0	13.57
	10.0	16.80
	12.0	19.97
	15.0	24.40
120 x 120	6.0	11.20
	8.0	14.85
	10.0	18.40
	12.0	21.90
	13.0	23.61
	14.0	25.32
	15.0	28.60
	16.0	28.68
130 x 130	8.0	16.13
	9.0	18.08

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
130 x 130	10.0	20.00
	11.0	21.92
	12.0	23.81
	13.0	25.70
	14.0	27.56
	15.0	29.40
140 x 140	16.0	31.24
	9.0	19.52
	10.0	21.60
	11.0	23.68
	12.0	25.73
	13.0	27.77
	14.0	29.80
150 x 150	15.0	31.80
	16.0	33.80
	6.0	13.90
	8.0	18.70
	10.0	23.20
	12.0	27.65
	13.0	29.85
	14.0	32.04
	15.0	34.20
	16.0	36.36
160 x 160	18.0	40.61
	20.0	44.80
	15.0	36.60
	16.0	38.92
180 x 180	18.0	43.49
	20.0	48.00
	13.0	36.09
	15.0	41.40
200 x 200	16.0	44.04
	18.0	49.25
	20.0	54.40
	13.0	40.25
	15.0	46.20
250 x 250	16.0	49.16
	18.0	55.01
	20.0	60.80
	13.0	50.65
	15.0	58.20
300 x 300	18.0	69.41
	20.0	76.80
	13.0	61.05
	15.0	70.20
	16.0	74.76
	18.0	83.81
	20.0	92.80

不銹鋼圓棒

Stainless Steel Round Bars

歐洲標準 European Standard: EN 10060 (DIN 1013)
美國標準 American Standard: ASTM A276-2002, ASTM A484



直徑 Diameter	單位重量 Mass per Unit Length
D(mm)	kg/m
2.0	0.03
2.5	0.04
3.0	0.06
3.5	0.08
4.0	0.10
4.5	0.13
5.0	0.15
6.0	0.22
7.0	0.30
8.0	0.40
9.0	0.50
10.0	0.62
11.0	0.75
12.0	0.89
13.0	1.04
14.0	1.21
15.0	1.39
16.0	1.58
18.0	2.00
20.0	2.47
22.0	2.98
24.0	3.55
25.0	3.85
26.0	4.17
28.0	4.83
30.0	5.55
32.0	6.31
34.0	7.13
35.0	7.55
36.0	7.99
38.0	8.90

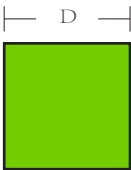
直徑 Diameter	單位重量 Mass per Unit Length
D(mm)	kg/m
40.0	9.87
42.0	10.88
45.0	12.49
46.0	13.05
48.0	14.21
50.0	15.41
52.0	16.67
55.0	18.65
60.0	22.20
65.0	26.05
70.0	30.21
75.0	34.68
80.0	39.46
85.0	44.55
90.0	49.94
95.0	55.64
100.0	61.55
105.0	67.97
110.0	74.60
115.0	81.54
120.0	88.78
125.0	96.33
130.0	104.20
135.0	112.36
140.0	120.84
145.0	129.63
150.0	138.72
160.0	157.83
165.0	167.90
170.0	178.18
175.0	188.80

直徑 Diameter	單位重量 Mass per Unit Length
D(mm)	kg/m
180.0	199.76
190.0	222.57
200.0	246.62
205.0	261.00
210.0	271.90
220.0	298.40
230.0	326.10
235.0	341.00
240.0	355.10
250.0	385.30
260.0	416.80
265.0	433.00
270.0	449.50
280.0	483.40
290.0	518.30
300.0	554.90
310.0	592.50
320.0	634.90
325.0	651.0
330.0	675.20
335.0	695.80
340.0	712.70
350.0	755.30
360.0	799.00
370.0	848.80
375.0	867.20
380.0	895.30
400.0	986.50
425.0	1114.00
440.0	1200.50
450.0	1248.00

不銹鋼方鐵

Stainless Steel Square Bars

歐洲標準 European Standard: EN 10278 (DIN 178)
美國標準 American Standard: ASTM A276-2002



尺寸 Size	單位重量 Mass per Unit Length
D(mm)	kg/m
5	0.20
6	0.28
8	0.50
10	0.79
12	1.13
13	1.33
14	1.54
15	1.77
16	2.01

尺寸 Size	單位重量 Mass per Unit Length
D(mm)	kg/m
18	2.54
20	3.14
22	3.80
25	4.91
30	7.07
35	9.62
40	12.56
45	15.90
50	19.63

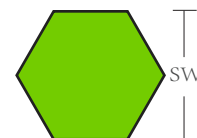
尺寸 Size	單位重量 Mass per Unit Length
D(mm)	kg/m
60	28.26
70	38.50
75	44.20
80	50.20
90	63.60
100	78.50
120	113.00
150	177.00

不銹鋼六角鐵

Stainless Steel Hexagon Bars

歐洲標準 European Standard: EN 10278 (DIN 176)

美國標準 American Standard: ASTM A276-2002



尺寸 Size	單位重量 Mass per Unit Length
SW (mm)	kg/m
3	0.06
4	0.11
5	0.17
8	0.44
9	0.55
10	0.68
11	0.83
12	0.99
13	1.16

尺寸 Size	單位重量 Mass per Unit Length
SW (mm)	kg/m
14	1.34
15	1.54
17	1.98
18	2.20
19	2.47
22	3.31
24	3.94
27	4.99
30	6.16

尺寸 Size	單位重量 Mass per Unit Length
SW (mm)	kg/m
32	7.01
36	8.87
41	11.50
46	14.48
50	17.10
55	20.70
60	24.60
65	28.72

不銹鋼扁鐵 (金屬片切割)

Stainless Steel Flat Bars (Cut From Sheet Metal)

歐洲標準 European Standard: EN 10058 美國標準 American Standard: ASTM A240 / A240M



尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
10 x 3	0.24
10 x 4	0.31
12 x 3	0.28
15 x 3	0.35
15 x 4	0.47
15 x 5	0.59
15 x 6	0.71
20 x 2	0.32
20 x 3	0.47
20 x 4	0.63
20 x 5	0.78
20 x 6	0.94
20 x 8	1.26
20 x 10	1.57
25 x 3	0.59
25 x 4	0.78
25 x 5	0.98
25 x 6	1.18
25 x 8	1.57
25 x 10	1.96
25 x 12	2.36
30 x 3	0.71
30 x 4	0.94
30 x 5	1.18
30 x 6	1.41
30 x 8	1.88
30 x 10	2.36
30 x 12	2.83
30 x 15	3.53

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
35 x 3	0.83
35 x 4	1.09
35 x 5	1.37
35 x 6	1.65
35 x 8	2.20
35 x 10	2.75
35 x 15	4.12
40 x 3	0.94
40 x 4	1.24
40 x 5	1.57
40 x 6	1.88
40 x 8	2.51
40 x 10	3.14
40 x 12	3.77
40 x 15	4.71
45 x 5	1.77
45 x 6	2.12
45 x 8	2.83
45 x 10	3.53
50 x 3	1.18
50 x 4	1.57
50 x 5	1.96
50 x 6	2.36
50 x 8	3.14
50 x 10	3.93
50 x 12	4.71
50 x 15	5.89
55 x 4	1.73
55 x 5	2.16
55 x 6	2.59

不銹鋼扁鐵(金屬片切割) (續)

Stainless Steel Flat Bars (Cut From Sheet Metal)(Continued)

歐洲標準 European Standard: EN 10058

美國標準 American Standard: ASTM A240 / A240M

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
60 x 3	1.41
60 x 4	1.87
60 x 5	2.36
60 x 6	2.83
60 x 8	3.77
60 x 10	4.71
60 x 12	5.65
60 x 15	7.07
65 x 5	2.55
65 x 8	4.08
65 x 10	5.10
65 x 12	6.24
70 x 3	1.65
70 x 4	2.20
70 x 5	2.75
70 x 6	3.30
70 x 8	4.39
70 x 10	5.50
75 x 3	1.80
75 x 5	2.94
75 x 6	3.60
75 x 8	4.71
75 x 10	6.00
75 x 12	7.07
75 x 15	8.83
80 x 3	1.88
80 x 4	2.51
80 x 5	3.14
80 x 6	3.77
80 x 8	5.02
80 x 10	6.28
80 x 12	7.54
80 x 15	9.42
90 x 5	3.53
90 x 6	4.24
90 x 8	5.65
90 x 10	7.07
100 x 3	2.34
100 x 4	3.14
100 x 5	3.93
100 x 6	4.71
100 x 8	6.28
100 x 10	7.85
100 x 12	9.42
100 x 15	11.78

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
110 x 8	6.91
110 x 10	8.64
120 x 5	4.71
120 x 6	5.65
120 x 8	7.54
120 x 10	9.42
120 x 12	11.30
120 x 15	14.13
130 x 8	8.16
130 x 10	10.20
130 x 12	12.22
140 x 8	8.79
140 x 10	10.99
140 x 15	16.49
150 x 5	5.89
150 x 6	7.07
150 x 8	9.42
150 x 10	11.78
150 x 12	14.13
150 x 15	17.66
160 x 8	10.05
160 x 10	12.56
160 x 12	15.07
160 x 15	18.84
180 x 10	14.13
180 x 12	16.96
180 x 15	21.20
200 x 5	8.00
200 x 6	9.60
200 x 8	12.56
200 x 10	15.70
200 x 12	18.80
200 x 15	23.55
200 x 20	31.40
220 x 10	17.60
240 x 12	23.00
250 x 8	15.70
250 x 10	19.63
250 x 15	30.00
300 x 10	24.00
300 x 15	36.00

不銹鋼扁鐵(熱成型) Stainless Steel Flat Bars (Hot Rolled)

歐洲標準 European Standard: EN 10058 (DIN 1017) 美國標準 American Standard: ASTM A484



尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
15 x 5	0.59
15 x 6	0.71
15 x 8	0.94
15 x 10	1.18
20 x 3	0.47
20 x 4	0.63
20 x 5	0.79
20 x 6	0.94
20 x 8	1.26
20 x 10	1.57
20 x 12	1.88
20 x 15	2.36
25 x 3	0.59
25 x 4	0.79
25 x 5	0.98
25 x 6	1.18
25 x 8	1.57
25 x 10	1.96
25 x 12	2.36
25 x 15	2.94
25 x 20	3.93
30 x 3	0.71
30 x 4	0.94
30 x 5	1.18
30 x 6	1.41
30 x 8	1.88
30 x 10	2.36
30 x 12	2.83
30 x 15	3.53
30 x 20	4.71
30 x 25	5.89
35 x 4	1.10
35 x 5	1.37
35 x 6	1.65
35 x 8	2.20
35 x 10	2.75
35 x 12	3.30
35 x 15	4.12
35 x 20	5.50
35 x 30	8.24
40 x 3	0.94
40 x 4	1.26
40 x 5	1.57
40 x 6	1.88
40 x 8	2.51
40 x 10	3.14
40 x 12	3.77
40 x 15	4.71
40 x 20	6.28
40 x 25	7.85
40 x 30	9.42
45 x 10	3.53
45 x 12	4.24
45 x 15	5.30
45 x 20	7.07

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
45 x 25	8.83
45 x 30	10.60
50 x 3	1.18
50 x 5	1.96
50 x 6	2.36
50 x 8	3.14
50 x 10	3.93
50 x 12	4.71
50 x 15	5.89
50 x 20	7.85
50 x 25	9.81
50 x 30	11.78
50 x 35	13.74
50 x 40	15.70
60 x 5	2.36
60 x 6	2.83
60 x 8	3.77
60 x 10	4.71
60 x 12	5.65
60 x 15	7.07
60 x 20	9.42
60 x 25	11.78
60 x 30	14.13
60 x 35	16.49
60 x 40	18.84
60 x 50	23.56
65 x 30	15.60
70 x 5	2.75
70 x 6	3.30
70 x 8	4.40
70 x 10	5.50
70 x 12	6.59
70 x 15	8.24
70 x 20	10.99
70 x 25	13.70
70 x 30	16.49
70 x 40	21.98
70 x 50	27.48
70 x 60	32.97
75 x 20	12.00
75 x 50	29.60
75 x 60	35.30
80 x 5	3.14
80 x 6	3.77
80 x 8	5.02
80 x 10	6.28
80 x 12	7.54
80 x 15	9.42
80 x 20	12.56
80 x 25	15.70
80 x 30	18.84
80 x 35	21.98
80 x 40	25.12
80 x 50	31.40
80 x 60	37.68

加工產品
Hollow Sections & Tubes

管材
Hollow Sections & Tubes

板材
Plates

型鋼
Sections

不銹鋼網
Stainless Steel Wire Mesh

螺紋配件
Threaded Fittings

對焊配件
Butt-weld Fittings

接頭
Unions

喉箍
Tube Clamps

法蘭
Flanges

閥門
Valves

鋼絲繩配件
Wire Rope Accessories

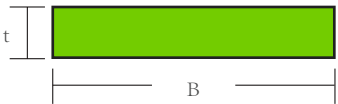
規格標準
Specifications

不銹鋼扁鐵(熱成型) (續) Stainless Steel Flat Bars (Hot Rolled)(Continued)

歐洲標準 European Standard: EN 10058 (DIN 1017) 美國標準 American Standard: ASTM A484

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
90 x 8	5.56
90 x 10	7.07
90 x 12	8.48
90 x 15	10.60
90 x 20	14.13
90 x 40	28.80
100 x 5	3.93
100 x 6	4.71
100 x 8	6.28
100 x 10	7.85
100 x 12	9.42
100 x 15	11.78
100 x 20	15.70
100 x 25	19.63
100 x 30	23.55
100 x 35	27.48
100 x 40	31.40
100 x 50	39.26
100 x 60	47.10
110 x 20	17.27
110 x 25	21.59
110 x 30	25.91
120 x 8	7.54
120 x 10	9.42
120 x 12	11.30
120 x 15	14.13
120 x 20	18.84

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
120 x 25	23.60
120 x 30	28.26
120 x 40	37.68
130 x 12	12.20
130 x 15	15.30
130 x 20	20.41
140 x 15	16.50
140 x 20	21.98
150 x 8	9.42
150 x 10	11.78
150 x 12	14.13
150 x 15	17.66
150 x 20	23.60
150 x 25	29.40
150 x 30	35.33
150 x 40	47.10
150 x 50	58.88
160 x 15	19.20
160 x 20	25.60
160 x 25	31.40
160 x 30	37.68
180 x 15	21.60
180 x 20	28.80
180 x 25	35.36
180 x 30	35.36
200 x 20	28.80
200 x 30	47.10



不銹鋼扁鐵(光亮拉拔) Stainless Steel Flat Bars (Bright Drawn)

歐洲標準 European Standard: EN 10278 (DIN 174)

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
6 x 4	0.19
8 x 3	0.19
8 x 4	0.25
10 x 3	0.24
10 x 4	0.31
10 x 5	0.39
10 x 6	0.47
10 x 8	0.62
12 x 3	0.28
12 x 4	0.37
12 x 5	0.47
12 x 6	0.56
12 x 8	0.75
12 x 10	0.94

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
15 x 3	0.35
15 x 4	0.47
15 x 5	0.59
15 x 6	0.70
15 x 8	0.94
15 x 10	1.18
16 x 6	0.75
16 x 12	1.54
20 x 3	0.47
20 x 4	0.62
20 x 5	0.79
20 x 6	0.94
20 x 8	1.26
20 x 10	1.57
20 x 12	1.88
20 x 15	2.36



不銹鋼扁鐵(光亮拉拔)(續) Stainless Steel Flat Bars (Bright Drawn)(Continued)

歐洲標準 European Standard: EN 10278 (DIN 174)

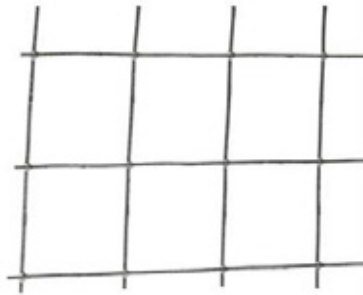
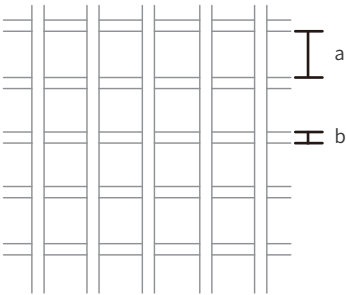


尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
25 x 3	0.59
25 x 4	0.79
25 x 5	0.98
25 x 6	1.18
25 x 8	1.57
25 x 10	1.96
25 x 12	2.36
25 x 15	2.94
25 x 20	3.93
30 x 3	0.71
30 x 4	0.94
30 x 5	1.18
30 x 6	1.41
30 x 8	1.88
30 x 10	2.36
30 x 12	2.83
30 x 15	3.53
30 x 20	4.71
30 x 25	5.89
35 x 5	1.37
35 x 6	1.65
35 x 8	2.20
35 x 10	2.75
35 x 12	3.30
35 x 15	4.12
35 x 20	5.50
40 x 3	0.94
40 x 4	1.24
40 x 5	1.57
40 x 6	1.88
40 x 8	2.51
40 x 10	3.14
40 x 12	3.77
40 x 15	4.71
40 x 20	6.28
40 x 25	7.85
40 x 30	9.42
45 x 5	1.77
45 x 6	2.12
45 x 8	2.83
45 x 10	3.53
45 x 12	4.24
45 x 15	5.30
50 x 3	1.18
50 x 4	1.57
50 x 5	1.96
50 x 6	2.36
50 x 8	3.14
50 x 10	3.93
50 x 12	4.71

尺寸 Size	單位重量 Mass per Unit Length
B x t (mm)	kg/m
50 x 15	5.89
50 x 20	7.85
50 x 25	9.81
50 x 30	11.78
50 x 40	15.70
60 x 4	1.88
60 x 5	2.36
60 x 6	2.83
60 x 8	3.77
60 x 10	4.71
60 x 12	5.65
60 x 15	7.07
60 x 20	9.42
60 x 25	11.78
60 x 30	14.13
60 x 40	18.84
60 x 50	23.56
70 x 5	2.75
70 x 6	3.30
70 x 8	4.40
70 x 10	5.50
70 x 12	6.59
70 x 15	8.24
70 x 20	10.99
80 x 5	3.14
80 x 6	3.77
80 x 8	5.02
80 x 10	6.28
80 x 12	7.54
80 x 15	9.42
80 x 20	12.56
80 x 25	15.70
80 x 30	18.84
80 x 40	25.12
90 x 10	7.07
90 x 12	8.48
90 x 15	10.60
100 x 5	3.93
100 x 6	4.71
100 x 8	6.28
100 x 10	7.85
100 x 12	9.42
100 x 15	11.78
100 x 20	15.70
100 x 25	19.63
100 x 30	23.55
120 x 8	7.68
120 x 10	9.60
120 x 15	14.22

焊接網 Welded Meshes

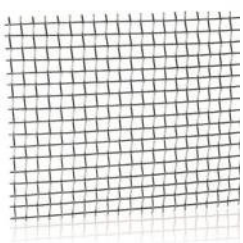
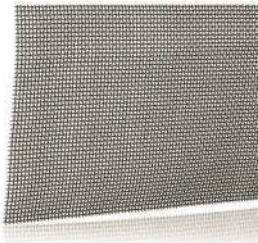
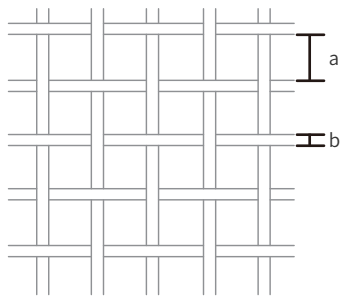
貨品編號 Mesh Label	網眼開口 Mesh Opening	網線厚度 Wire Thickness	網寬 Mesh Width
	a(mm)	b(mm)	(mm)
4	5.60	0.80	1220
3	7.00	1.00	1220
2	11.00	1.60	1220
2	11.70	1.00	1220
1.3	19.00	1.60	1220
1	25.00	2.00	1220



金屬篩網 Woven Meshes

貨品編號 Mesh Label	網眼開口 Mesh Opening	網線厚度 Wire Thickness
	a(mm)	b(mm)
5	4.00	1.00
6	3.55	0.90
7	2.80	0.80
8	2.50	0.71
10	2.00	0.56
12	1.60	0.56

貨品編號 Mesh Label	網眼開口 Mesh Opening	網線厚度 Wire Thickness
	a(mm)	b(mm)
16	1.25	0.315
18	1.00	0.40
20	1.00	0.25
30	0.56	0.28
40	0.40	0.224
50	0.315	0.20



不銹鋼線 Stainless Steel Wires

特性 Quality	尺寸 Dimension
	a(mm)
AISI 302彈簧線 (Spring)	0.40~5.00
AISI 304硬線 (Hard)	0.60~4.00
AISI 304軟線 (Soft)	0.90~7.10



鍍鋅/不銹鋼網 Galvanized / Stainless Steel Meshes

產品規格表 Standard of Products

鋼號 Reference No.		鍍鋅網規格 Diameter		網眼規格 Pitch		網片規格 Sheet Size	重量 Weight
鍍鋅 Galvanized Steel	不銹鋼 Stainless Steel	值 Main A(mm)	橫 Cross B(mm)	值 Main A(mm)	橫 Cross B(mm)	寬 X 長 Width x Length W(m) x L(m)	(kg/m ²)
21G	21S	4.00	3.00	50	25	2.1 x 3.6	4.18
210G	210S	3.00	3.00	50	50	2.1 x 3.6	2.20
228G	228S	4.00	4.00	50	50	2.1 x 3.6	3.96
31G	31S	4.00	3.00	75	25	2.1 x 3.6	3.52
310G	310S	3.00	3.00	75	75	2.1 x 3.6	1.46
3110G	3110S	3.00	3.00	75	25	2.1 x 3.6	2.93
310aG	—	3.00	3.20	75	75	2.1 x 3.6	1.68
410G	410S	3.00	3.00	100	100	2.1 x 3.6	1.11
48G	48S	4.00	4.00	100	100	2.1 x 3.6	1.98
1111G	1111S	3.00	3.00	25	25	2.1 x 3.6	4.40
1112G	1112S	2.00	2.70	25	25	1.2 x 2.1	3.64
3315*	—*	1.00	1.50	75	75	1.8 x 30	0.36
D31*	D31S*	2.00	2.00	100	100	1.8 x 60	0.5
B31*	B31S*	2.00	2.00	50	50	1.8 x 30	0.99
D49*	D49S*	2.50	2.50	100	100	1.8 x 50	0.77
E49*	E49S*	2.50	2.50	50	50	1.8 x 20	1.54
B49a(2212)*	E49aS*	2.70	2.70	50	50	1.8 x 20	1.80
1520G*	1520S*	1.50	1.50	20	20	0.915 x 30	1.40
1117G*	1117S*	1.50	1.50	25	25	0.915 x 30	1.12
1118G*	1118S*	1.20	1.20	25	25	0.915 x 30	0.72
1119G*	1119S*	1.00	1.00	25	25	0.915 x 30	0.48

備註:

Remarks:

- (1) “*” 網格類型以卷的形式提供。
 - (2) 不銹鋼網提供ASTM EN 304 和 AISI 316兩種等級。
- (1) “*” Types of mesh are supplied in form of rolls.
 - (2) Stainless Steel Mesh is supplied in grade of ASTM EN 304 and AISI 316.

不銹鋼刀片網

Stainless Steel Blade Meshes

不銹鋼刀片刺網也稱為不銹鋼刀片刺絲、不銹鋼刀片刺繩，是一種新型防護網。不銹鋼刀片刺網具有美觀、經濟實用、防阻效果好、施工便利等優異特點，目前，不銹鋼刀片刺網已被廣泛應用於許多國家的工礦企業，園林公寓，邊防哨所，軍事領域，監獄，看守所，政府建築物和其他國家的安全設施。

可為客戶定做304材質，316L材質刀片網及工程安裝。

Stainless steel blade gill net, also known as stainless steel blade thorn wire and stainless steel blade thorn rope, is a new type of protective net. Stainless steel blade gill net has the advantages of beautiful, economical and practical, good anti blocking effect and convenient construction. At present, stainless steel blade gill net has been widely used in many countries' industrial and mining enterprises, garden apartments, border guard posts, military fields, prisons, detention centers, government buildings and other national security facilities.

Can be customized 304 material, 316L material blade net and installation purpose.



刀片規格形式 Specification

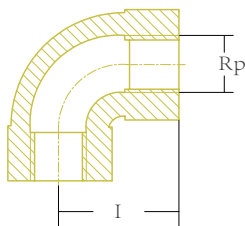
代號 Type No.	刀片形式 Shape	刀片厚 Thickness	心線直徑 Wild Dia.	刀長 Bard Length	刀寬 Bard Width	刀間 Bard Spacing
BT0-10		0.5±0.05	2.5±0.1	10±1	13±1	26±1
BT0-18		0.5±0.05	2.5±0.1	15±1	15±1	33±1
BT0-22		0.5±0.05	2.5±0.1	22±1	15±1	34±1
BT0-60		0.6±0.05	2.5±0.1	65±1	21±1	100±1

外徑 Outer Diameter	圈數 Cycles	標準覆蓋長度 Standard Coverage Length	生產形式 Production form	備註 Remark
450mm	56	8-9m(3 Clips)	BTO-10.12.18.22.28.30	交叉型 Cross type
500mm	56	9-10m(3 Clips)	BTO-10.12.18.22.28.30	交叉型 Cross type
600mm	56	10-11m(3 Clips)	BTO-10.12.18.22.28.30	交叉型 Cross type
800mm	56	11-13m(5 Clips)	BTO-10.12.18.22.28.30	交叉型 Cross type

螺紋配件由以下標準的不銹鋼製成：AISI 304和AISI 316（AISI 316L）。
根據ISO 228，配件具有平行螺紋。根據本標準，所有螺紋內外均為圓柱形。

Threaded fittings are produced from stainless steel of the following qualities: AISI 304 and AISI 316(AISI 316L).
Fittings have parallel threads according to ISO 228. All threads according to this standard are cylindrical both on the outside and inside.

301內螺紋彎頭/90°內螺紋 301 Elbows Female / Female 90°

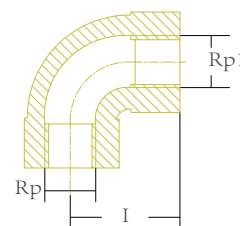


ISO 228 螺紋 ISO 228 Thread

Rp	l(mm)
1/8"	20
1/4"	21
3/8"	25
1/2"	28
3/4"	33
1"	38

Rp	l(mm)
1 1/4"	45
1 1/2"	50
2"	58
2 1/2"	75
3"	85
4"	96

301 R 90°變徑彎頭 301 R Elbows 90° Reduced



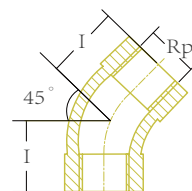
ISO 228 螺紋 ISO 228 Thread

Rp	Rp1	l(mm)
3/8"	1/4"	25
1/2"	3/8"	28
1/2"	1/4"	28
3/4"	1/2"	28
3/4"	3/8"	33
1"	3/4"	33
1"	1/2"	38

Rp	Rp1	l(mm)
1 1/4"	1"	45
1 1/4"	3/4"	45
1 1/2"	1 1/4"	50
1 1/2"	1"	50
2"	1 1/2"	58
2"	1 1/4"	58

303內螺紋彎頭/45°內螺紋 303 Elbows Female / Female 45°

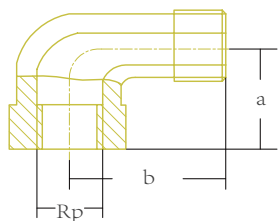
ISO 228 螺紋 ISO 228 Thread



Rp	l(mm)
1/4"	19
3/8"	21
1/2"	23
3/4"	25

Rp	l(mm)
1"	29
1 1/4"	33
1 1/2"	36
2"	43

304 90°外/內螺紋彎頭 304 Elbows Male / Female 90°



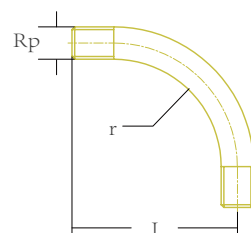
ISO 228 螺紋 ISO 228 Thread

Rp	a(mm)	b(mm)
1/8"	20	26
1/4"	21	28
3/8"	25	32
1/2"	27.5	37
3/4"	31	43

Rp	a(mm)	b(mm)
1"	37.5	52
1 1/4"	44	60
1 1/2"	50	65
2"	56	74

305彎頭—90°外螺紋 305 Elbow 90°- Male Thread

ISO 228 螺紋 ISO 228 Thread



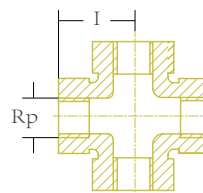
Rp	l(mm)	r(mm)
1/8"	50	30
1/4"	60	40
3/8"	70	45
1/2"	80	55
3/4"	100	70
1"	120	80

Rp	l(mm)	r(mm)
1 1/4"	140	105
1 1/2"	160	115
2"	190	125
2 1/2"	240	170
3"	290	200
4"	375	300

302十字內螺紋 302 Cross Female Thread

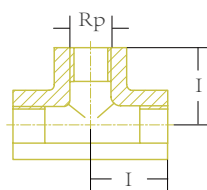
ISO 228 螺紋 ISO 228 Thread

Rp	l(mm)
3/8"	24
1/2"	28
3/4"	33
1"	38



Rp	l(mm)
1 1/4"	45
1 1/2"	49
2"	52

307三通內螺紋 307 Tees Female Thread



ISO 228 螺紋 ISO 228 Thread

Rp	b(mm)
1/8"	20
1/4"	21
3/8"	25
1/2"	28
3/4"	32
1"	38

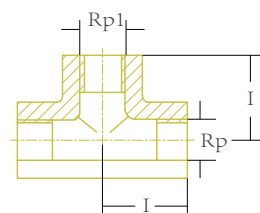


Rp	b(mm)
1 1/4"	40
1 1/2"	45
2"	52
2 1/2"	68
3"	80
4"	96

307R三通減徑內螺紋 307R Tees Female Thread Reduced

ISO 228 螺紋 ISO 228 Thread

Rp	Rp1	l(mm)
3/8"	1/4"	25
1/2"	3/8"	28
1/2"	1/4"	28
3/4"	1/2"	32
3/4"	3/8"	32
1"	3/4"	38
1"	1/2"	38



Rp	Rp1	l(mm)
1 1/4"	1"	40
1 1/4"	3/4"	40
1 1/2"	1 1/4"	45
1 1/2"	1"	45
2"	1 1/2"	52
2"	1 1/4"	52

加工產品
Hollow Sections & Tubes

管材
Hollow Sections & Tubes

板材
Plates

型鋼
Sections

不銹鋼網
Stainless Steel Wire Mesh

螺紋配件
Threaded Fittings

對焊配件
Butt-weld Fittings

接頭
Unions

喉箍
Tube Clamps

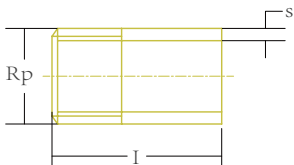
法蘭
Flanges

閥門
Valves

鋼絲繩配件
Wire Rope Accessories

規格標準
Specifications

308接頭 DIN 2982 308 Nipples DIN 2982

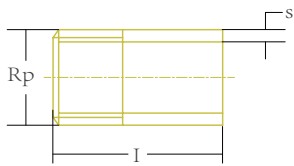


ISO 228 螺紋 ISO 228 Thread

Rp	s(mm)	l(mm)
1/8"	2.0	30
1/4"	2.3	30
3/8"	2.3	30
1/2"	2.6	35
3/4"	2.6	40
1"	3.2	40
1 1/4"	3.2	50

Rp	s(mm)	l(mm)
1 1/2"	3.2	50
2"	3.6	50
2 1/2"	3.6	60
3"	4.0	70
4"	4.5	80
5"	5.0	90
6"	7.1	120

308 SL接頭 308 SL Nipples



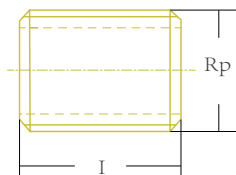
ISO 228 螺紋 ISO 228 Thread

Rp	s(mm)	l(mm)
		30
		40
		50
		60
		70
		80
		90
		100
1/8"	2.0	110
1/4"	2.3	120
3/8"	2.3	130
1/2"	2.6	140
3/4"	2.6	150
1"	3.2	160

Rp	s(mm)	l(mm)
1 1/4"	3.2	170
1 1/2"	3.2	180
2"	3.6	190
2 1/2"	3.6	200
3"	4.0	210
4"	4.5	220
		230
		240
		250
		260
		270
		280
		290
		300

309螺紋接頭 DIN 2982

309 Threaded Nipples DIN 2982



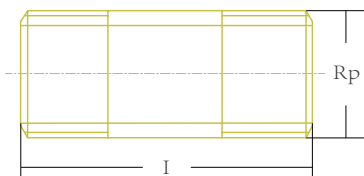
ISO 228 螺紋 ISO 228 Thread

Rp	s(mm)	l(mm)
1/8"	2.0	16
1/4"	2.3	18
3/8"	2.3	22
1/2"	2.6	25
3/4"	2.6	30
1"	3.2	35
1 1/4"	3.2	38

Rp	s(mm)	l(mm)
1 1/2"	3.2	38
2"	3.6	45
2 1/2"	3.6	55
3"	4.0	60
4"	4.5	70
5"	5.0	85
6"	7.1	100

310筒形螺紋接頭 DIN 2982

310 Barrel Nipples DIN 2982



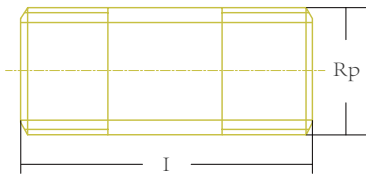
ISO 228 螺紋 ISO 228 Thread

Rp	s(mm)	l(mm)
1/8"	2.0	30
1/4"	2.3	30
3/8"	2.3	40
1/2"	2.6	60
3/4"	2.6	60

Rp	s(mm)	l(mm)
1"	3.2	60
1 1/4"	3.2	80
1 1/2"	3.2	80
2"	3.6	80

310SL筒形螺紋接頭

310 SL Barrel Nipples



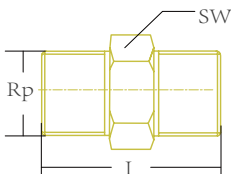
ISO 228 螺紋 ISO 228 Thread

Rp	s(mm)	l(mm)
		30
1/8"	2.0	40
1/4"	2.3	50
3/8"	2.3	60
1/2"	2.6	70
3/4"	2.6	80
1"	3.2	90
1 1/4"	3.2	100
1 1/2"	3.6	110
2"	3.6	120
3"	4.0	130
4"	4.5	140
		150
		160

Rp	s(mm)	l(mm)
		170
1/8"	2.0	180
1/4"	2.3	190
3/8"	2.3	200
1/2"	2.6	210
3/4"	2.6	220
1"	3.2	230
1 1/4"	3.2	240
1 1/2"	3.6	250
2"	3.6	260
3"	4.0	270
4"	4.5	280
		290
		300

340六角筒形螺紋接頭

340 Hexagon Barrel Nipple

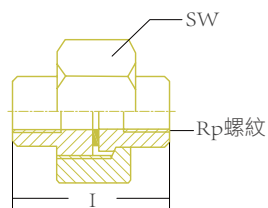


ISO 228 螺紋 ISO 228 Thread

Rp	l(mm)	SW(mm)
1/8"	22	12
1/4"	28	14
3/8"	35	19
1/2"	42	24
3/4"	47	32
1"	52	38

Rp	l(mm)	SW(mm)
1 1/4"	56	46
1 1/2"	59	55
2"	66	65
2 1/2"	72	80
3"	80	95

311內螺紋平接頭 311 Unions Flat, Female Thread

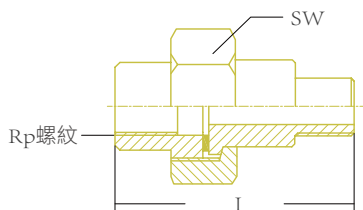


ISO 228 螺紋 ISO 228 Thread

Rp	l(mm)	SW(mm)
1/8"	37	30
1/4"	37	30
3/8"	40	36
1/2"	46	41
3/4"	48	46
1"	52	50

Rp	l(mm)	SW(mm)
1 1/4"	60	64
1 1/2"	71	75
2"	76	90
1 1/2"	90	110
3"	90	120
4"	115	155

311 I/A平接頭 內螺紋/外螺紋 311 I/A Unions Flat, Female / Male Thread

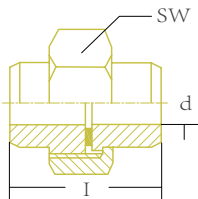


ISO 228 螺紋 ISO 228 Thread

Rp	l(mm)	SW(mm)
1/4"	50	30
3/8"	52	36
1/2"	62	41
3/4"	65	46
1"	71	50
1 1/4"	81	64

Rp	l(mm)	SW(mm)
1 1/2"	95	75
2"	102	90
2 1/2"	121	110
3"	125	120
4"	155	155

311S平接頭,對焊端 311 S Unions Flat, Butt Weld End

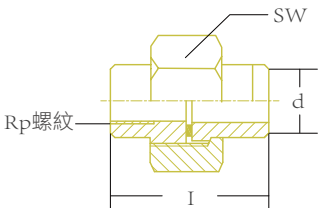


ISO 228 螺紋 ISO 228 Thread

d(mm)	l(mm)	SW(mm)
10.2	37	30
13.2	37	30
17.2	40	36
21.3	46	41
26.9	48	46
33.7	52	50

d(mm)	l(mm)	SW(mm)
42.4	60	65
48.3	71	75
60.3	76	90
76.1	90	110
88.9	90	120
114.3	115	155

311 I/S平接頭 內螺紋/對焊端 311 I/S Unions Flat, Female Thread / Butt Weld End

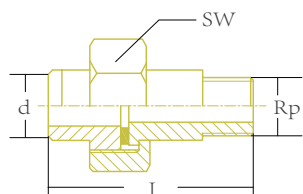


ISO 228 螺紋 ISO 228 Thread

Rp	d(mm)	l(mm)	SW(mm)
1/8"	10.2	37	30
1/4"	13.2	37	30
3/8"	17.2	40	36
1/2"	21.3	46	41
3/4"	26.9	48	46
1"	33.7	52	50

Rp	d(mm)	l(mm)	SW(mm)
1 1/4"	42.4	60	65
1 1/2"	48.3	71	75
2"	60.3	76	90
2 1/2"	76.1	90	110
3"	88.9	90	120

311 A/S平接頭,外螺紋/對焊端 311 A/S Unions Flat, Male Thread / Butt Weld End

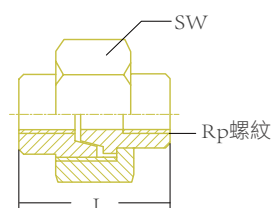


ISO 228 螺紋 ISO 228 Thread

Rp	d(mm)	I(mm)	SW(mm)
1/4"	13.2	50	30
3/8"	17.2	52	36
1/2"	21.3	62	41
3/4"	26.9	65	46
1"	33.7	73	50

Rp	d(mm)	I(mm)	SW(mm)
1 1/4"	42.4	83	65
1 1/2"	48.3	90	75
2"	60.3	102	90
2 1/2"	76.1	121	110
3"	88.9	134	120

312內螺紋錐形接頭 312 Unions Conical, Female Thread

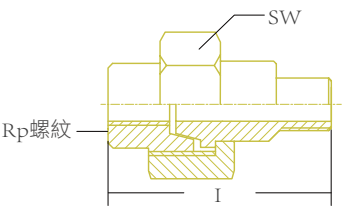


ISO 228 螺紋 ISO 228 Thread

Rp	I(mm)	SW(mm)
1/8"	37	30
1/4"	37	30
3/8"	40	36
1/2"	46	41
3/4"	48	46
1"	52	50

Rp	I(mm)	SW(mm)
1 1/4"	60	64
1 1/2"	71	75
2"	76	90
2 1/2"	90	110
3"	90	120
4"	115	155

312 I/A 錐形接頭,內螺紋/外螺紋 312 I/A Unions Conical, Female / Male Thread

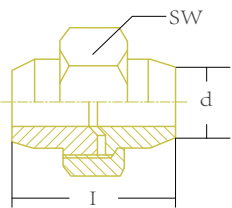


ISO 228 螺紋 ISO 228 Thread

Rp	l(mm)	SW(mm)
1/4"	50	30
3/8"	52	36
1/2"	62	41
3/4"	65	46
1"	71	50
1 1/4"	81	64

Rp	l(mm)	SW(mm)
1 1/2"	95	75
2"	102	90
2 1/2"	121	110
3"	125	120
4"	155	155

312S錐形對焊接頭 312 S Unions Conical, Butt Weld Ends

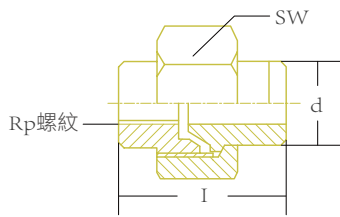


ISO 228 螺紋 ISO 228 Thread

d(mm)	l(mm)	SW(mm)
10.2	37	30
13.2	37	30
17.2	40	36
21.3	46	41
26.9	48	46
33.7	52	50

d(mm)	l(mm)	SW(mm)
42.4	60	65
48.3	71	75
60.3	76	90
76.1	90	110
88.9	90	120
114.3	115	155

312 I/S 錐形接頭,內螺紋/對焊端 312 I/S Unions Conical, Female Thread / Butt Weld End

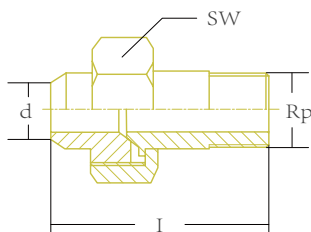


ISO 228 螺紋 ISO 228 Thread

Rp	d(mm)	l(mm)	SW(mm)
1/8"	10.2	37	30
1/4"	13.2	37	30
3/8"	17.2	40	36
1/2"	21.3	46	41
3/4"	26.9	48	46
1"	33.7	52	50

Rp	d(mm)	l(mm)	SW(mm)
1 1/4"	42.4	60	65
1 1/2"	48.3	71	75
2"	60.3	76	90
2 1/2"	76.1	90	110
3"	88.9	90	120

312 A/S 錐形接頭,外螺紋/對焊端 312 A/S Unions Conical, Male Thread / Butt Weld End

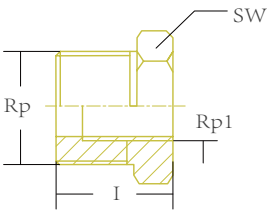


ISO 228 螺紋 ISO 228 Thread

Rp	d(mm)	l(mm)	SW(mm)
1/4"	13.2	50	30
3/8"	17.2	52	36
1/2"	21.3	62	41
3/4"	26.9	65	46
1"	33.7	71	50

Rp	d(mm)	l(mm)	SW(mm)
1 1/4"	42.4	81	65
1 1/2"	48.3	95	75
2"	60.3	102	90
2 1/2"	76.1	121	110
3"	88.9	125	120

325六角公/母襯套 325 Hexagon Bushing Male / Female

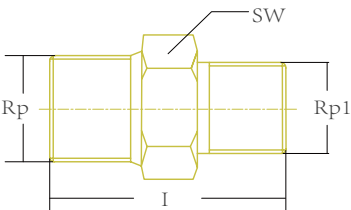


ISO 228 螺紋 ISO 228 Thread

Rp	Rp1	I(mm)	SW(mm)
1/4"	1/8"	18	12
3/8"	1/4"	18	21
3/8"	1/8"	18	21
1/2"	3/8"	22	26
1/2"	1/4"	22	26
1/2"	1/8"	22	26
3/4"	1/2"	26	30
3/4"	3/8"	26	30
3/4"	1/4"	26	30
1"	3/4"	28	38
1"	1/2"	28	38
1 1/4"	1"	30	48
1 1/4"	3/4"	30	48

Rp	Rp1	I(mm)	SW(mm)
1 1/4"	1/2"	30	48
1 1/2"	1 1/4"	32	55
1 1/2"	1"	32	55
1 1/2"	3/4"	32	55
1 1/2"	1/2"	32	55
2"	1 1/2"	37	65
2"	1 1/4"	37	65
2"	1"	37	65
2"	3/4"	37	65
2 1/2"	2"	40	80
2 1/2"	1 1/2"	40	80
3"	2 1/2"	46	95
3"	2"	46	95

341異徑六角筒形螺紋接頭 341 Reduced Hexagon Barrel Nipples



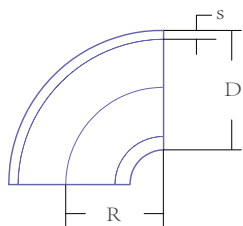
ISO 228 螺紋 ISO 228 Thread

Rp	Rp1	I(mm)	SW(mm)
1/4"	1/8"	35	20
3/8"	1/4"	35	21
3/8"	1/8"	35	21
1/2"	3/8"	39	26
1/2"	1/4"	39	26
1/2"	1/8"	39	26
3/4"	1/2"	44	32
3/4"	3/8"	44	32
3/4"	1/4"	44	32
3/4"	1/8"	44	32
1"	3/4"	50	38
1"	1/2"	50	38
1"	3/8"	50	38
1 1/4"	1"	56	46

Rp	Rp1	I(mm)	SW(mm)
1 1/4"	3/4"	56	46
1 1/4"	1/2"	56	46
1 1/2"	1 1/4"	58	50
1 1/2"	1"	58	50
1 1/2"	3/4"	58	50
2"	1 1/2"	65	65
2"	1 1/4"	65	65
2"	1"	65	65
2"	3/4"	65	65
2 1/2"	2"	74	80
2 1/2"	1 1/2"	74	80
2 1/2"	1 1/4"	74	80
3"	2 1/2"	80	95
3"	2"	80	95

90°彎管 R = 1.5 D (端口 3) Elbows 90° R = 1.5 D (Bauart 3)

德國標準 Germany Standard: DIN 2605



外徑 Outside Diameter	半徑 Radius	厚度 Thickness	重量 Weight
D(mm)	R(mm)	s(mm)	(kg/pcs)
17.2	27.5	1.6	0.030
	27.3	2.3	0.035
21.3	28	2.0	0.040
		2.3	0.047
		2.6	0.052
		2.9	0.060
		3.2	0.070
		3.6	0.080
26.9	29	2.0	0.056
		2.3	0.064
		2.6	0.070
		2.9	0.080
		3.2	0.090
		3.6	0.094
		4.0	0.103
		4.5	0.110
30	33.5	2.0	0.070
		2.6	0.090
33.7	38	2.0	0.100
		2.6	0.120
		2.9	0.130
		3.2	0.150
		3.6	0.160
		4.0	0.180
		4.5	0.200
		5.0	0.210
38	45	2.0	0.130
		2.6	0.160
		2.9	0.130
		3.2	0.160
		3.6	0.130
		4.0	0.160
42.4	48	2.0	0.160
		2.6	0.190
		2.9	0.210
		3.2	0.230
		3.6	0.260
		4.0	0.290
		4.5	0.320
		5.0	0.350
44.5	51	2.6	0.220
		2.9	0.240
		3.2	0.260
		3.6	0.290
		4.0	0.320

外徑 Outside Diameter	半徑 Radius	厚度 Thickness	重量 Weight
D(mm)	R(mm)	s(mm)	(kg/pcs)
48.3	57	2.0	0.220
		2.6	0.260
		2.9	0.290
		3.2	0.320
		3.6	0.360
		4.0	0.390
		4.5	0.440
57	72	5.0	0.480
		2.9	0.440
		3.2	0.480
		3.6	0.540
		4.0	0.590
		4.5	0.660
		5.0	0.730
60.3	76	5.6	0.810
		6.3	0.890
		2.0	0.340
		2.9	0.490
		3.2	0.540
		3.6	0.600
		4.0	0.670
76.1	95	4.5	0.740
		5.0	0.820
		5.6	0.901
		6.3	1.001
		7.1	1.111
		2.0	0.620
		2.6	0.700
88.9	114	2.9	0.780
		3.2	0.860
		3.6	0.960
		4.0	1.060
		4.5	1.190
		5.0	1.310
		5.6	1.460
		6.3	1.620
		7.1	1.810
		8.0	2.010
		10.0	2.430
		2.0	0.810
		3.2	1.220
		3.6	1.360
		4.0	1.510
		4.5	1.690
		5.0	1.851
		5.6	2.070

90°彎管 R= 1.5 D (端口 3) (續)

Elbows 90° R= 1.5 D (Bauart 3)(Continued)

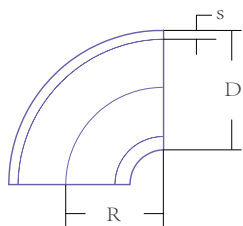
德國標準 Germany Standard: DIN 2605

外徑 Outside Diameter	半徑 Radius	厚度 Thickness	重量 Weight
D(mm)	R(mm)	s(mm)	(kg/pcs)
88.9	114	6.3	2.310
		7.1	2.580
		8.0	2.870
		10.0	3.500
108	142.5	3.6	2.080
		4.0	2.300
		4.5	2.570
		5.0	2.850
		5.6	3.170
		6.3	3.540
		7.1	3.960
		8.0	4.420
		10.0	5.405
		3.6	2.360
		4.0	2.610
		4.5	2.920
		5.0	3.230
		5.6	3.600
		6.3	4.020
		7.1	4.500
		8.0	5.030
		10.0	6.160
		4.0	3.620
		4.5	4.060
		5.0	4.490
		5.6	4.997
		6.3	5.600
		7.1	6.270
		8.0	7.010
		4.0	4.010
		4.5	4.490
		5.0	4.970
		5.6	5.540
		6.3	6.200
		7.1	6.950
		8.0	7.780
		4.5	5.820
		5.0	6.450
		5.6	7.190
		6.3	8.050
		7.1	9.030
		8.0	10.100
		8.8	11.100
		10.0	12.460
		14.0	18.000
		4.5	6.53
		5.0	7.23
		5.6	8.07
		6.3	9.04
		7.1	10.14
		8.0	11.40
		8.8	12.44
		10.0	14.03
		6.3	15.82
		7.1	17.80

外徑 Outside Diameter	半徑 Radius	厚度 Thickness	重量 Weight
D(mm)	R(mm)	s(mm)	(kg/pcs)
219.1	305	8.0	20.00
		8.8	21.90
		10.0	24.70
		11.0	27.02
		12.5	30.50
		16.0	38.40
273	381	6.3	24.80
		7.1	27.90
		8.0	31.30
		8.8	34.30
		10.0	38.78
		11.0	42.50
		12.5	48.10
323.9	457	7.1	39.80
		8.0	44.70
		8.8	49.04
		10.0	55.52
		11.0	60.90
		12.5	68.90
355.6	533	8.0	57.36
		8.8	63.10
		10.0	71.40
		11.0	78.30
		12.5	88.60
		14.2	100.00
406.4	610	8.0	75.30
		8.8	82.60
		10.0	93.60
		11.0	102.70
		12.5	116.24
		14.2	131.50
457	686	8.0	95.50
		8.8	104.80
		10.0	118.70
		11.0	130.25
		12.5	147.60
		14.2	167.00
508	762	8.0	118.00
		8.8	129.60
		10.0	146.90
		11.0	161.22
		12.5	182.70
		14.2	206.80
610	914	10.0	212.23
		11.0	233.10
		12.5	264.20
		14.2	299.30
		16.0	336.20
		17.5	366.80
711	1067	10.0	289.50
		11.0	318.00
		12.5	360.54
		14.2	408.60
		16.0	459.20

無縫90°彎管 R= 1.5 D (端口 3) Seamless Elbows 90° R= 1.5 D (Bauart 3)

德國標準 Germany Standard: DIN 2605

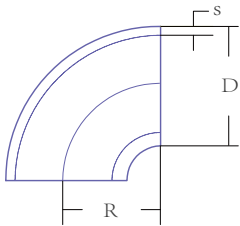


外徑 Outside Diameter	半徑 Radius	厚度 Thickness	重量 Weight
D(mm)	R(mm)	s(mm)	(kg/pcs)
20	27.5	2.0	0.040
21.3	27.5	2.0	0.040
25	27.5	2.0	0.050
26.9	29	2.3	0.070
30	33.5	2.6	0.090
31.8	35	2.6	0.110
33.7	38	2.6	0.120
		4.0	0.180
35	45	2.6	0.150
38	45	2.6	0.160
42.4	48	2.6	0.192
		4.0	0.290
44.5	51	2.6	0.220
48.3	57	2.6	0.270
		4.0	0.390
		4.5	0.440
51	63.5	2.6	0.310
57	72	2.9	0.440
60.3	76	2.9	0.490
		7.1	1.000
63.5	82.5	2.9	0.570
70	92	2.9	0.700
76.1	95	2.9	0.790
		4.5	1.190
		10.0	2.500
82.5	107.5	3.2	1.070
88.9	114	3.2	1.220
		4.5	1.680
		7.1	2.500
95	132.5	3.6	1.700
101.6	133.5	3.6	1.830

外徑 Outside Diameter	半徑 Radius	厚度 Thickness	重量 Weight
D(mm)	R(mm)	s(mm)	(kg/pcs)
108	142.5	3.6	2.080
		6.3	3.540
114.3	152	3.6	2.370
		4.5	2.920
		5.0	3.250
		8.0	5.000
121	170	4.0	3.080
127	175	4.0	3.330
133	181	4.0	3.640
139.7	190	4.0	4.040
		5.6	5.580
152.4	215	4.5	5.250
159	216	4.5	5.800
165.1	230	4.5	6.450
177.8	250	5.0	8.350
193.7	270	5.6	10.600
219.1	305	6.3	14.900
244.5	340	6.3	19.800
267	378	6.3	24.100
273	381	6.3	24.900
298.5	420	7.1	33.700
318	455	7.5	41.000
323.9	457	7.1	40.000
355.6	533	8	57.200
368	533.5	8	59.200
406.4	610	8.8	82.200
419	609.5	10	96.600
457	686	10	119.00
470	672.5	10.5	126.00
508	762	11	162.00
521	747.5	11.5	169.00

90°彎管 R=1.5 D Elbows 90° R=1.5 D

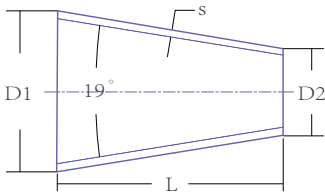
德國標準 Germany Standard: DIN 11852



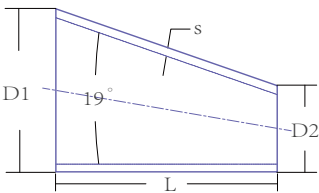
DN	外徑 Outside Diameter	半徑 Radius	厚度 Thickness	重量 Weight
	D(mm)	R(mm)	s(mm)	(kg/pcs)
10	12	26	1.5	0.016
10	13	26	1.5	0.020
15	18	35	1.5	0.040
15	19	35	1.5	0.036
20	22	40	1.5	0.048
20	23	40	1.5	0.050
25	28	50	1.5	0.078
25	29	50	1.5	0.088
32	34	55	1.5	0.108
32	35	55	1.5	0.101
40	40	60	1.5	0.134
40	41	60	1.5	0.141
50	52	70	1.5	0.220
50	53	70	1.5	0.200
65	70	80	2.0	0.431
80	85	90	2.0	0.570
100	104	100	2.0	0.740
125	129	188	2.0	1.770
150	154	225	2.0	2.580
200	204	300	2.0	4.501

異徑接頭 Reducers

德國標準 Germany Standard: DIN 11852 (Series 1)



同心 Concentric



偏心 Eccentric



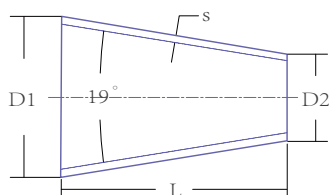
D1	D2	s	L	重量 Weight
(mm)	(mm)	(mm)	(mm)	(kg/pcs)
28	22	1.5	18	0.023
34	22	1.5	36	0.051
34	28	1.5	18	0.028
40	22	1.5	54	0.084
40	28	1.5	36	0.061
40	34	1.5	18	0.033
52	28	1.5	72	0.145
52	34	1.5	54	0.117
52	40	1.5	36	0.083

D1	D2	s	L	重量 Weight
(mm)	(mm)	(mm)	(mm)	(kg/pcs)
70	34	2.0	108	0.282
70	40	2.0	90	0.249
70	52	2.0	54	0.165
85	40	2.0	135	0.424
85	52	2.0	89	0.306
85	70	2.0	45	0.175
104	52	2.0	156	0.611
104	70	2.0	102	0.446
104	85	2.0	57	0.271

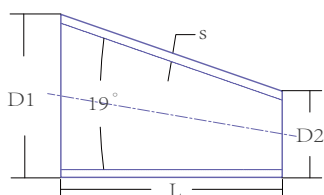
異徑接頭 Reducers

德國標準 Germany Standard: DIN 2616

歐洲標準 European Standard: EN 10253-4



同心 Concentric



偏心 Eccentric



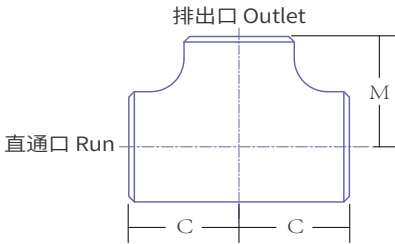
D1	D2	s	L	重量 Weight
(mm)	(mm)	(mm)	(mm)	(kg/pcs)
21.3	13.7	2.0	38	0.03
	17.2	2.0	38	0.03
26.9	13.7	2.0	38	0.03
	17.2	2.0	38	0.04
	21.3	2.0	38	0.04
33.7	13.7	2.0	51	0.06
	17.2	2.0	51	0.06
	21.3	2.0	51	0.07
	26.9	2.0	51	0.07
42.4	13.7	2.0	51	0.07
	17.2	2.0	51	0.07
	21.3	2.0	51	0.08
	26.9	2.0	51	0.08
	33.7	2.0	51	0.09
48.3	17.2	2.0	64	0.10
	21.3	2.0	64	0.11
	26.9	2.0	64	0.11
	33.7	2.0	64	0.13
	42.4	2.0	64	0.14
60.3	17.2	2.0	76	0.14
	21.3	2.0	76	0.15
	26.9	2.0	76	0.16
	33.7	2.0	76	0.17
	42.4	2.0	76	0.19
	48.3	2.0	76	0.20
76.1	26.9	2.0	89	0.22
	33.7	2.0	89	0.24
	42.4	2.0	89	0.26
	48.3	2.0	89	0.27
	60.3	2.0	89	0.30
88.9	33.7	2.0	89	0.27
	42.4	2.0	89	0.28
	48.3	2.0	89	0.30
	60.3	2.0	89	0.32
	76.1	2.0	89	0.36

D1	D2	s	L	重量 Weight
(mm)	(mm)	(mm)	(mm)	(kg/pcs)
114.3	26.9	2.6	102	0.45
	33.7	2.6	102	0.48
	42.4	2.6	102	0.50
	48.3	2.6	102	0.52
	60.3	2.6	102	0.56
	76.1	2.6	102	0.62
	88.9	2.6	102	0.66
139.7	60.3	2.6	127	0.81
	76.1	2.6	127	0.87
	88.9	2.6	127	0.93
	114.3	2.6	127	1.03
168.3	60.3	2.6	140	1.02
	76.1	2.6	140	1.09
	88.9	2.6	140	1.15
	114.3	2.6	140	1.27
	139.7	2.6	140	1.39
219.1	88.9	2.0	152	1.16
	114.3	2.5	152	1.69
	139.7	2.6	152	1.76
	168.3	2.6	152	1.90
273	168.3	2.6	178	2.54
		3.0	178	2.92
	219.1	2.6	178	2.83
		3.0	178	3.26
323.9	168.3	3.0	203	3.72
	219.1	3.0	203	4.11
	273	3.0	203	4.52
355.6	168.3	3.0	330	6.44
	219.1	3.0	330	7.08
	273	3.0	330	7.75
	323.9	3.0	330	8.38
406.4	219.1	3.0	356	8.31
	273	3.0	356	90.4
	323.9	3.0	356	9.72
	355.6	3.0	356	10.15

對焊等徑三通

Butt-weld Equal Tees

美國標準 American Standard: ASME/ANSI B16.9



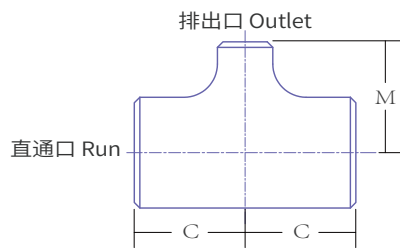
DN	標稱尺寸 Nominal Pipe Size	斜面外徑 OD at Bevelled	C	M	厚度 Thickness	重量 [40S/STD] Weight
	(in)	(mm)	(mm)	(mm)	(mm)	(kg/pcs)
15	1/2	21.3	25.40	25.40	2.77	0.084
20	3/4	26.7	28.45	28.45	2.87	0.122
25	1	33.4	38.10	38.10	3.38	0.246
32	1 1/4	42.2	47.75	47.75	3.56	0.420
40	1 1/2	48.3	57.15	57.15	3.68	0.599
50	2	60.3	63.50	63.50	3.91	0.872
65	2 1/2	73.0	76.2	76.2	5.16	1.76
80	3	88.9	85.85	85.85	5.49	2.51
90	3 1/2	101.6	95.25	95.25	5.74	3.17
100	4	114.3	104.65	104.65	6.02	4.13
125	5	141.3	123.95	123.95	6.55	6.60
150	6	168.3	142.75	142.75	7.11	9.73
200	8	219.1	177.80	177.80	8.18	18.07
250	10	273.1	215.90	215.90	9.27	30.92
300	12	323.9	254.00	254.00	9.53	44.3
350	14	355.6	279.40	279.4	9.53	53.7
400	16	406.4	304.8	304.80	9.53	66.3
450	18	457	342.9	342.9	9.53	84.1
500	20	508	381.00	381.00	9.53	104
550	22	559	419.10	419.10	9.53	126
600	24	609	431.80	431.80	9.53	140
650	26	660	495.30	495.30	9.53	176.23
700	28	711	520.70	520.70	9.53	198.33
750	30	762	558.80	558.80	9.53	228.36
800	32	813	596.90	596.90	9.53	260.51
850	34	864	635.00	635.00	9.53	294.77
900	36	914	673.10	673.10	9.53	331.15
950	38	965	711.20	711.20	9.53	369.65
1000	40	1016	749.30	749.30	9.53	410.26
1050	42	1067	762.00	711.20	9.53	421.53
1100	44	1118	812.80	762.00	9.53	474.74
1150	46	1168	850.90	800.10	9.53	520.65
1200	48	1219	889.00	838.20	9.53	568.66

備註：
Remarks:

- (1) 對於管規格在NPS 26及以上的：尺寸不適用於十字通。此外，B是建議尺寸，不是必須尺寸。
(2) 以mm表示的尺寸是B16.9的標稱值（即英吋的四捨五入等效值）。有關其他最大和最小的公製尺寸，請參閱B16.9。
(3) 重量為近似值，並基於40S/標準配件的製造商數據（如有）。
- (1) For NPS 26 and larger: Dimensions are not applicable to crosses. Also, dimension B is recommended but not required.
(2) Dimensions quoted in mm are ‘Nominal’ values from B16.9 (i.e. rounded equivalents of the inch dimensions).
Refer to B16.9 for additional ‘Max’ and ‘Min’ metric dimensions.
(3) Weights are approximate and based on manufacturers’ data (where available) for Schedule 40S/Standard fittings.

對焊異徑三通 Butt-weld Reducing Tees

美國標準 American Standard: ASME/ANSI B16.9



DN	標稱尺寸 Nominal Pipe Size	直通口 Run 外徑 OD	排出口 Outlet 外徑 OD	C	M	重量 [40S/STD] Weight
	(in)	(mm)	(mm)	(mm)	(mm)	(kg/piece)
15 x 15 x 10	1/2 → 3/8	21.34	17.27	25.4	25.4	0.080
15 x 15 x 8	1/2 → 1/4	21.34	13.72	25.4	25.4	0.076
20 x 20 x 15	3/4 → 1/2	26.67	21.34	28.45	28.45	0.117
20 x 20 x 10	3/4 → 3/8	26.67	17.27	28.45	28.45	0.112
25 x 25 x 20	1 → 3/4	33.53	26.67	38.10	38.10	0.234
25 x 25 x 15	1 → 1/2	33.53	21.34	38.10	38.10	0.225
32 x 32 x 25	1 1/4 → 1	42.16	33.53	47.75	47.75	0.398
32 x 32 x 20	1 1/4 → 3/4	42.16	26.67	47.75	47.75	0.382
32 x 32 x 15	1 1/4 → 1/2	42.16	21.34	47.75	47.75	0.369
40 x 40 x 32	1 1/2 → 1 1/4	48.26	42.16	57.15	57.15	0.581
40 x 40 x 25	1 1/2 → 1	48.26	33.53	57.15	57.15	0.555
40 x 40 x 20	1 1/2 → 3/4	48.26	26.67	57.15	57.15	0.534
40 x 40 x 15	1 1/2 → 1/2	48.26	21.34	57.15	57.15	0.518
50 x 50 x 40	2 → 1 1/2	60.45	48.26	63.50	60.45	0.830
50 x 50 x 32	2 → 1 1/4	60.45	42.16	63.50	57.15	0.800
50 x 50 x 25	2 → 1	60.45	33.53	63.50	50.80	0.749
50 x 50 x 20	2 → 3/4	60.45	26.67	63.50	44.45	0.722
65 x 65 x 50	2 1/2 → 2	73.15	60.45	76.20	69.85	1.65
65 x 65 x 40	2 1/2 → 1 1/2	73.15	48.26	76.20	66.55	1.57
65 x 65 x 32	2 1/2 → 1 1/4	73.15	42.16	76.20	63.50	1.53
65 x 65 x 25	2 1/2 → 1	73.15	33.53	76.20	57.15	1.48
80 x 80 x 65	3 → 2 1/2	88.90	73.15	85.85	82.55	2.39
80 x 80 x 50	3 → 2	88.90	60.45	85.85	76.20	2.27
80 x 80 x 40	3 → 1 1/2	88.90	48.26	85.85	73.15	2.19
80 x 80 x 32	3 → 1 1/4	88.90	42.16	85.85	69.85	2.15
90 x 90 x 80	3 1/2 → 3	101.60	88.90	95.25	91.95	3.05
90 x 90 x 65	3 1/2 → 2 1/2	101.60	73.15	95.25	88.90	2.93
90 x 90 x 50	3 1/2 → 2	101.60	60.45	95.25	82.55	2.81
90 x 90 x 40	3 1/2 → 1 1/2	101.60	48.26	95.25	79.25	2.74
100 x 100 x 90	4 → 3 1/2	114.30	101.60	104.65	101.60	3.98
100 x 100 x 80	4 → 3	114.30	88.90	104.65	98.55	3.86
100 x 100 x 65	4 → 2 1/2	114.30	73.15	104.65	95.25	3.73
100 x 100 x 50	4 → 2	114.30	60.45	104.65	88.90	3.61
100 x 100 x 40	4 → 1 1/2	114.30	48.26	104.65	85.85	3.53
125 x 125 x 100	5 → 4	141.22	114.30	123.95	117.35	6.25
125 x 125 x 90	5 → 3 1/2	141.22	101.60	123.95	114.30	6.11
125 x 125 x 80	5 → 3	141.22	88.90	123.95	111.25	5.98
125 x 125 x 65	5 → 2 1/2	141.22	73.15	123.95	107.95	5.84
125 x 125 x 50	5 → 2	141.22	60.45	123.95	104.65	5.73
150 x 150 x 125	6 → 5	168.15	141.22	142.75	136.65	9.29
150 x 150 x 100	6 → 4	168.15	114.30	142.75	130.05	8.91
150 x 150 x 90	6 → 3 1/2	168.15	101.60	142.75	127.00	8.76
150 x 150 x 80	6 → 3	168.15	88.90	142.75	123.95	8.62
150 x 150 x 65	6 → 2 1/2	168.15	73.15	142.75	120.65	8.47
200 x 200 x 150	8 → 6	218.95	168.15	177.80	168.15	17.05
200 x 200 x 125	8 → 5	218.95	141.22	177.80	162.05	16.57
200 x 200 x 100	8 → 4	218.95	114.30	177.80	155.45	16.14
200 x 200 x 90	8 → 3 1/2	218.95	101.60	177.80	152.40	15.97
250 x 250 x 200	10 → 8	273.05	218.90	215.90	203.20	29.23

對焊異徑三通 (續)

Butt-weld Reducing Tees (Continued)

美國標準 American Standard: ASME/ANSI B16.9

DN	標稱尺寸 Nominal Pipe Size	直通口 Run 外徑 OD	排出口 Outlet 外徑 OD	C	M	重量 [40S/STD] Weight
	(in)	(mm)	(mm)	(mm)	(mm)	(kg/piece)
250 x 250 x 150	10 → 6	273.05	168.15	215.90	193.55	28.20
250 x 250 x 125	10 → 5	273.05	141.22	215.90	190.50	27.75
250 x 250 x 100	10 → 4	273.05	114.30	215.90	184.15	27.27
300 x 300 x 250	12 → 10	323.85	273.05	254.00	241.30	42.31
300 x 300 x 200	12 → 8	323.85	219.95	254.00	228.60	40.68
300 x 300 x 150	12 → 6	323.85	168.15	254.00	218.95	39.53
300 x 300 x 125	12 → 5	323.85	141.22	254.00	215.90	39.08
350 x 350 x 300	14 → 12	355.60	323.85	279.40	269.75	52.08
350 x 350 x 250	14 → 10	355.60	273.05	279.40	257.05	50.20
350 x 350 x 200	14 → 8	355.60	218.95	279.40	247.65	48.74
350 x 350 x 150	14 → 6	355.60	168.15	279.40	238.25	47.56
400 x 400 x 350	16 → 14	406.40	355.60	304.80	304.80	65.10
400 x 400 x 300	16 → 12	406.40	323.85	304.80	295.15	63.60
400 x 400 x 250	16 → 10	406.40	273.05	304.80	282.45	61.60
400 x 400 x 200	16 → 8	406.40	218.95	304.80	273.05	60.11
400 x 400 x 150	16 → 6	406.40	168.15	304.80	263.65	58.93
450 x 450 x 400	18 → 16	457.20	406.40	342.90	330.20	81.50
450 x 450 x 350	18 → 14	457.20	355.60	342.90	330.20	80.30
450 x 450 x 300	18 → 12	457.20	323.85	342.90	320.55	78.90
450 x 450 x 250	18 → 10	457.20	273.05	342.90	307.85	76.82
450 x 450 x 200	18 → 8	457.20	218.95	342.90	298.45	75.36
500 x 500 x 450	20 → 18	508.00	457.20	381.00	368.30	101.00
500 x 500 x 400	20 → 16	508.00	406.40	381.00	355.60	98.60
500 x 500 x 350	20 → 14	508.00	355.60	381.00	355.60	97.40
500 x 500 x 300	20 → 12	508.00	323.85	381.00	345.95	95.76
500 x 500 x 250	20 → 10	508.00	273.05	381.00	333.25	93.88
500 x 500 x 200	20 → 8	508.00	218.95	381.00	323.85	92.42
550 x 550 x 500	22 → 20	558.50	508.00	419.10	406.40	123.00
550 x 550 x 450	22 → 18	558.50	457.20	419.10	393.70	120.00
550 x 550 x 400	22 → 16	558.50	406.40	419.10	381.00	118.00
550 x 550 x 350	22 → 14	558.50	355.60	419.10	381.00	116.10
550 x 550 x 300	22 → 12	558.50	323.85	419.10	371.35	114.64
550 x 550 x 250	22 → 10	558.50	273.05	419.10	358.65	112.76
600 x 600 x 550	24 → 22	609.60	558.80	431.80	431.80	138.00
600 x 600 x 500	24 → 20	609.60	508.00	431.80	431.80	137.00
600 x 600 x 450	24 → 18	609.60	457.20	431.80	419.10	134.00
600 x 600 x 400	24 → 16	609.60	406.40	431.80	406.40	130.86
600 x 600 x 350	24 → 14	609.60	355.60	431.80	406.40	129.65
600 x 600 x 300	24 → 12	609.60	323.85	431.80	396.75	128.18
600 x 600 x 250	24 → 10	609.60	273.05	431.80	384.05	126.30
650 x 650 x 600	26 → 24	660.40	609.60	495.30	482.60	172.50
650 x 650 x 550	26 → 22	660.40	558.80	495.30	469.90	169.03
650 x 650 x 500	26 → 20	660.40	508.00	495.30	457.20	165.88
650 x 650 x 450	26 → 18	660.40	457.20	495.30	444.50	163.04
700 x 700 x 650	28 → 26	711.20	660.40	520.70	520.70	196.37
700 x 700 x 600	28 → 24	711.20	609.60	520.70	508.00	192.62
700 x 700 x 550	28 → 22	711.20	558.80	520.70	495.30	189.17
700 x 700 x 500	28 → 20	711.20	508.00	520.70	482.60	186.02
700 x 700 x 450	28 → 18	711.20	457.20	520.70	469.90	183.18
750 x 750 x 700	30 → 28	762.00	711.20	558.80	546.10	224.16
750 x 750 x 650	30 → 26	762.00	660.40	558.80	546.10	222.20
750 x 750 x 600	30 → 24	762.00	609.60	558.80	533.40	218.45
750 x 750 x 550	30 → 22	762.00	558.80	558.80	520.70	215.00
750 x 750 x 500	30 → 20	762.00	508.00	558.80	508.00	211.85
800 x 800 x 750	32 → 30	812.80	762.00	596.90	584.20	256.00
800 x 800 x 700	32 → 28	812.80	711.20	596.90	571.50	251.80
800 x 800 x 650	32 → 26	812.80	660.40	596.90	571.50	249.84
800 x 800 x 600	32 → 24	812.80	609.60	596.90	558.80	246.09

對焊異徑三通 (續) Butt-weld Reducing Tees (Continued)

美國標準 American Standard: ASME/ANSI B16.9

DN	標稱尺寸 Nominal Pipe Size	直通口 Run 外徑 OD	排出口 Outlet 外徑 OD	C	M	重量 [40S/STD] Weight
	(in)	(mm)	(mm)	(mm)	(mm)	(kg/piece)
34 → 32	850 x 850 x 800	863.60	812.80	635.00	622.30	289.96
34 → 30	850 x 850 x 750	863.60	762.00	635.00	609.60	285.46
34 → 28	850 x 850 x 700	863.60	711.20	635.00	596.90	281.26
34 → 26	850 x 850 x 650	863.60	660.40	635.00	596.90	279.79
34 → 24	850 x 850 x 600	863.60	609.60	635.00	584.20	275.54
36 → 34	900 x 900 x 850	914.40	863.60	673.10	660.40	326.04
36 → 32	900 x 900 x 800	914.40	812.80	673.10	647.70	321.23
36 → 30	900 x 900 x 750	914.40	762.00	673.10	635.00	316.73
36 → 28	900 x 900 x 700	914.40	711.20	673.10	622.30	312.52
36 → 26	900 x 900 x 650	914.40	660.40	673.10	622.30	310.56
36 → 24	900 x 900 x 600	914.40	609.60	673.10	609.60	306.81
38 → 36	950 x 950 x 900	965.20	914.40	711.20	711.20	366.93
38 → 34	950 x 950 x 850	965.20	863.60	711.20	698.50	361.66
38 → 32	950 x 950 x 800	965.20	812.80	711.20	685.80	356.70
38 → 30	950 x 950 x 750	965.20	762.00	711.20	673.10	352.05
38 → 28	950 x 950 x 700	965.20	711.20	711.20	647.70	345.60
38 → 26	950 x 950 x 650	965.20	660.40	711.20	647.70	343.64
40 → 38	1000 x 1000 x 950	1016.00	965.20	749.30	749.30	407.38
40 → 36	1000 x 1000 x 900	1016.00	914.40	749.30	736.60	401.82
40 → 34	1000 x 1000 x 850	1016.00	863.60	749.30	723.90	396.56
40 → 32	1000 x 1000 x 800	1016.00	812.80	749.30	711.20	391.60
40 → 30	1000 x 1000 x 750	1016.00	762.00	749.30	698.50	386.94
42 → 40	1050 x 1050 x 1000	1066.80	1016.00	762.00	711.20	419.41
42 → 38	1050 x 1050 x 950	1066.80	965.20	762.00	711.20	417.29
42 → 36	1050 x 1050 x 900	1066.80	914.40	762.00	711.20	415.18
42 → 34	1050 x 1050 x 850	1066.80	863.60	762.00	711.20	413.06
42 → 32	1050 x 1050 x 800	1066.80	812.80	762.00	711.20	410.95
42 → 30	1050 x 1050 x 750	1066.80	762.00	762.00	711.20	408.83
44 → 42	1100 x 1100 x 1050	1117.60	1066.80	812.80	762.00	472.33
44 → 40	1100 x 1100 x 1000	1117.60	1016.00	812.80	749.30	466.92
44 → 38	1100 x 1100 x 950	1117.60	965.20	812.80	736.60	461.81
44 → 36	1100 x 1100 x 900	1117.60	914.40	812.80	723.90	457.00
46 → 44	1150 x 1150 x 1100	1168.40	1117.60	850.90	800.10	518.08
46 → 42	1150 x 1150 x 1050	1168.40	1066.80	850.90	787.40	512.36
46 → 40	1150 x 1150 x 1000	1168.40	1016.00	850.90	774.70	506.95
46 → 38	1150 x 1150 x 950	1168.40	965.20	850.90	762.00	501.84
48 → 46	1200 x 1200 x 1150	1219.20	1168.40	889.00	838.20	565.94
48 → 44	1200 x 1200 x 1100	1219.20	1117.60	889.00	838.20	563.22
48 → 42	1200 x 1200 x 1050	1219.20	1066.80	889.00	812.80	554.21
48 → 40	1200 x 1200 x 1000	1219.20	1016.00	889.00	812.80	551.79

備註:

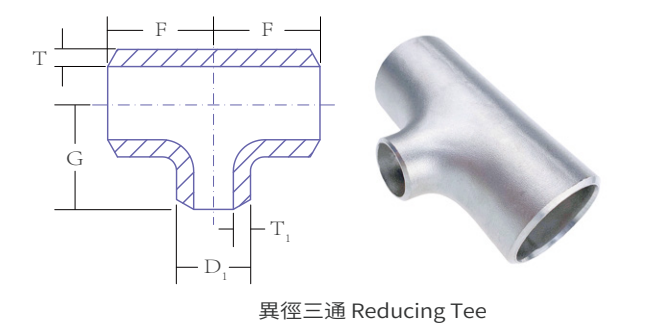
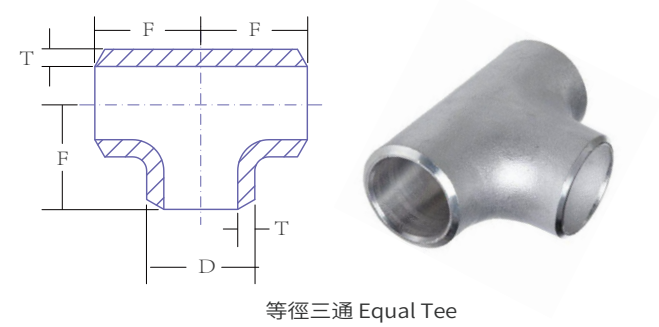
Remarks:

- (1) 對於直通口管規格在NPS 14及以上的：排出口尺寸B是建議尺寸，不是必須尺寸。
- (2) 以mm表示的尺寸是B16.9的標稱值（即英吋的四捨五入等值）。有關其他最大和最小的公製尺寸，請參閱B16.9。
- (3) 異徑三通相應的尺寸名稱：例如 4→3 : 4 x 4 x 3, 44→36 : 44 x 44 x 36。
- (4) 重量為近似值，並基於40S/標準的製造商配件數據（如有）。

- (1) For run size NPS 14 and larger, outlet dimension B is recommended but not required.
- (2) Dimensions quoted in mm are 'Nominal' values from B16.9 (i.e. rounded equivalents of the inch dimensions). Refer to B16.9 for additional 'Max' and 'Min' metric dimensions.
- (3) The corresponding size designation for a reducing tee is, for example, for the tee shown as 4→3 : 4 x 4 x 3, and for the tee shown as 44→36 : 44 x 44 x 36.
- (4) Weights are approximate and based on manufacturers' data (where available) for Schedule 40S/Standard fittings.

對焊三通(等徑和異徑) Butt-weld Tees (Equal and Reduced)

歐洲標準 European Standard: EN 10253-3, EN 10253-4

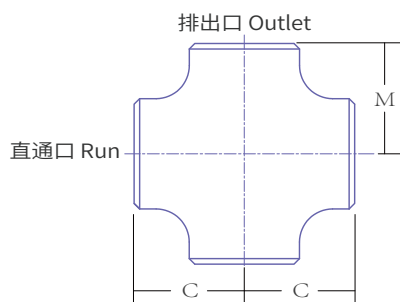


D	D ₁	T	F	G	重量 Weight
(mm)	(mm)	(mm)	(mm)	(mm)	(kg/pcs)
13.7	13.7	1.5	27	27	0.21
17.2	17.2	1.5	30	30	0.23
21.3	21.3	2	25	—	0.25
		3		—	0.28
26.9	26.9	2	29	—	0.35
	21.3	2		29	0.33
	26.9	3		—	0.38
	21.3	3		29	0.42
33.7	33.7	2	38	—	0.38
	26.9	2		38	0.36
	21.3	2			0.34
	33.7	3		—	0.52
	26.9	3		38	0.49
	21.3	3			0.45
42.4	42.4	2	48	—	0.43
	33.7	2		48	0.41
	26.9	2			0.40
	21.3	2			0.40
	42.4	3		—	0.48
	33.7	3		48	0.46
	26.9	3			0.45
	21.3	3			0.44
48.3	48.3	2	57	—	48.3
	42.4	2		57	42.4
	33.7	2			33.7
	26.9	2			26.9
	48.3	3		—	48.3
	42.4	3		57	42.4
	33.7	3			33.7
	26.9	3			26.9
60.3	60.3	2	64	—	0.56
	48.3	2		60	0.55
	42.4	2		57	0.53
	33.7	2		51	0.52
	60.3	3		—	0.63
	48.3	3		60	0.61
	42.4	3		57	0.59
	33.7	3		51	0.58
76.1	76.1	2	76	—	0.72
	60.3	2		70	0.68
	48.3	2		67	0.66
	42.4	2		64	0.64

D	D ₁	T	F	G	重量 Weight
(mm)	(mm)	(mm)	(mm)	(mm)	(kg/pcs)
76.1	76.1	3	76	—	0.94
	60.3	3		70	0.92
	48.3	3		67	0.91
	42.4	3		64	0.89
88.9	88.9	2	86	—	1.02
	76.1	2		83	0.98
	60.3	2		76	0.96
	48.3	2		73	0.94
	88.9	3		—	1.32
	76.1	3		83	1.29
	60.3	3		76	1.26
	48.3	3		73	1.25
114.3	114.3	2	105	—	1.72
	88.9	2		98	1.65
	76.1	2		95	1.62
	60.3	2		89	1.58
	114.3	3		—	2.35
	88.9	3		98	2.30
	76.1	3		95	2.25
	60.3	3		89	2.20
139.7	139.7	2	124	—	2.20
	114.3	2		117	2.00
	88.9	2		111	1.90
	76.1	2		108	1.85
	139.7	3		—	2.89
	114.3	3		117	2.85
	88.9	3		111	2.81
	76.1	3		108	2.79
168.3	168.3	2	143	—	3.25
	139.7	2		137	3.15
	114.3	2		130	3.05
	88.9	2		124	2.90
	168.3	3		—	4.50
	139.7	3		137	4.10
	114.3	3		130	3.90
	88.9	3		124	3.70
219.1	219.1	2	178	—	4.50
	168.3	2		168	4.30
	139.7	2		162	4.10
	114.3	2		156	4.00
	219.1	3		—	6.50
	168.3	3		168	5.90
	139.7	3		162	5.80
	114.3	3		156	5.60

對焊等徑十字通 Butt-weld Equal Crosses

美國標準 American Standard: ASME/ANSI B16.9



DN	標稱尺寸 Nominal Pipe Size	斜面外徑 OD at Bevelled	C	M	厚度 Thickness	重量 [40S/STD] Weight
	(in)	(mm)	(mm)	(mm)	(mm)	(kg/pcs)
15	1/2	21.3	25.40	25.40	2.77	0.119
20	3/4	26.7	28.45	28.45	2.87	0.169
25	1	33.4	38.10	38.10	3.38	0.329
32	1 1/4	42.2	47.75	47.75	3.56	0.548
40	1 1/2	48.3	57.15	57.15	3.68	0.783
50	2	60.3	63.50	63.50	3.91	1.13
65	2 1/2	73.0	76.2	76.2	5.16	2.09
80	3	88.9	85.85	85.85	5.49	3.00
90	3 1/2	101.6	95.25	95.25	5.74	3.94
100	4	114.3	104.65	104.65	6.02	5.08
125	5	141.3	123.95	123.95	6.55	8.00
150	6	168.3	142.75	142.75	7.11	11.79
200	8	219.1	177.80	177.80	8.18	21.68
250	10	273.1	215.90	215.90	9.27	36.92
300	12	323.9	254.00	254.00	9.53	53.52
350	14	355.6	279.40	279.4	9.53	65.38
400	16	406.4	304.8	304.80	9.53	81.33
450	18	457	342.9	342.9	9.53	104.68
500	20	508	381.00	381.00	9.53	131.47
550	22	559	419.10	419.10	9.53	161.76
600	24	609	431.80	431.80	9.53	180.88

加工產品
Hollow Sections & Tubes

管材
Hollow Sections & Tubes

板材
Plates

型鋼
Sections

不銹鋼網
Stainless Steel Wire Mesh

螺紋配件
Threaded Fittings

對焊配件
Butt-weld Fittings

接頭
Unions

喉箍
Tube Clamps

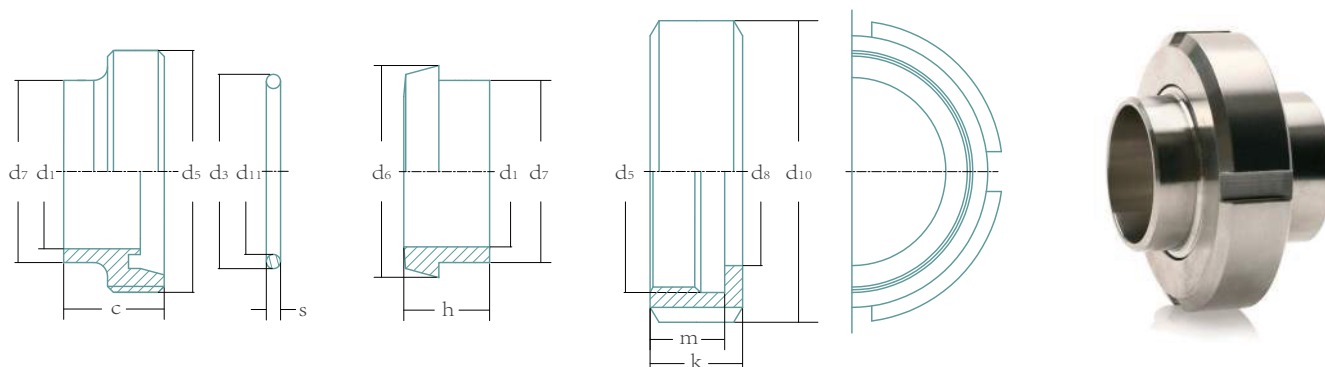
法蘭
Flanges

閥門
Valves

鋼絲繩配件
Wire Rope Accessories

規格標準
Specifications

管接頭 Tube Unions



ISO焊接接頭 ISO Welding Unions

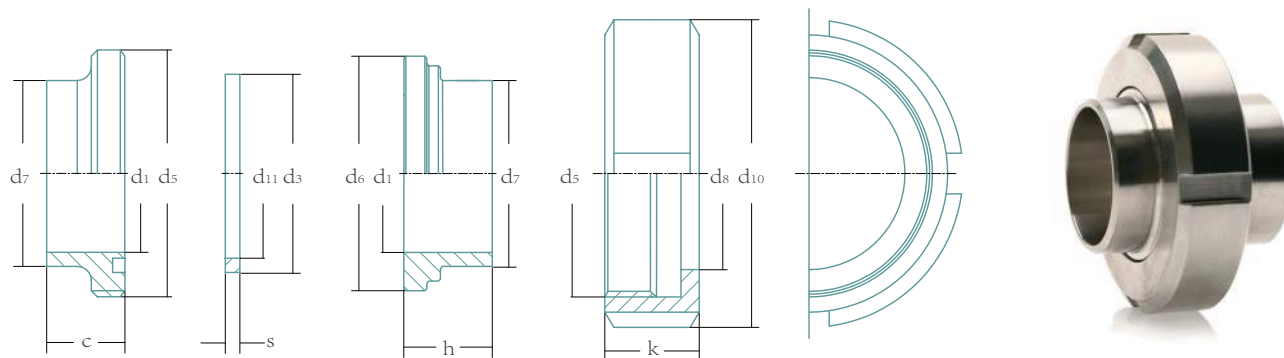
標稱尺寸 Normal size DN(mm)	d5 (mm)	c (mm)	d1 (mm)	d3 (mm)	d6 (mm)	d7 (mm)	d8 (mm)	d10 (mm)	d11 (mm)	h (mm)	k (mm)	m (mm)	s (mm)
10	Rd 28 x 1/8"	21	14	20	22.5	17.2	19	38	12	17	18	18	4.5
15	Rd 34 x 1/8"	21	18.1	26	28.5	21.3	25	44	18	17	18	15	4.5
20	Rd 44 x 1/6"	24	23.7	33	36.5	26.9	31	54	23	18	20	17	4.5
25	Rd 52 x 1/6"	29	29.7	40	44	33.7	36	63	30	22	21	18	5.0
32	Rd 58 x 1/6"	32	38.4	46	50	42.4	42	70	36	25	21	18	5.0
40	Rd 65 x 1/6"	33	44.3	52	56	48.3	49	78	42	26	21	18	5.0
50	Rd 78 x 1/6"	35	56.3	64	68.5	60.3	62	92	54	28	22	19	5.0
65	Rd 95 x 1/6"	40	71.5	81	86	76.1	80	112	71	32	25	21	5.0
80	Rd 110 x 1/4"	45	84.3	88	100	88.9	94	127	85	37	29	25	5.0
100	Rd 130 x 1/4"	54	109.1	95	121	114.3	115	148	104	44	31	26	6.0
125	Rd 160 x 1/4"	46	134.5	142	150	139.7	138	178	130	34	35	30	7.0
150	Rd 190 x 1/4"	50	163.1	167	176	168.3	164	210	155	37	40	34	7.0

根據DIN11851焊接 According to DIN 11851 for Welding

標稱尺寸 Normal size DN(mm)	d5 (mm)	c (mm)	d1 (mm)	d3 (mm)	d6 (mm)	d7 (mm)	d8 (mm)	d10 (mm)	d11 (mm)	h (mm)	k (mm)	m (mm)	s (mm)
10	Rd 28 x 1/8"	21	10	20	22.5	13	19	38	12	17	18	18	4.5
15	Rd 34 x 1/8"	21	16	26	28.5	19	25	44	18	17	18	15	4.5
20	Rd 44 x 1/6"	24	20	33	36.5	23	31	54	23	18	20	17	4.5
25	Rd 52 x 1/6"	29	26	40	44	29	36	63	30	22	21	18	5.0
32	Rd 58 x 1/6"	32	32	46	50	35	42	70	36	25	21	18	5.0
40	Rd 65 x 1/6"	33	38	52	56	41	49	78	42	26	21	18	5.0
50	Rd 78 x 1/6"	35	50	64	68.5	53	62	92	54	28	22	19	5.0
65	Rd 95 x 1/6"	40	66	81	86	70	80	112	71	32	25	21	5.0
80	Rd 110 x 1/4"	45	81	95	100	85	94	127	85	37	29	25	5.0
100	Rd 130 x 1/4"	54	100	114	121	104	115	148	104	44	31	26	6.0
125	Rd 160 x 1/4"	46	125	142	150	129	138	178	130	34	35	30	7.0
150	Rd 190 x 1/4"	50	150	167	176	154	164	210	155	37	40	34	7.0

管接頭 Tube Unions

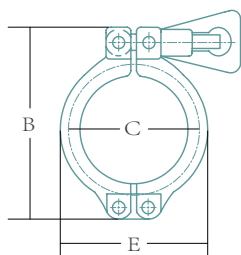
根據SMS焊接 According to SMS for Welding



標稱尺寸 Normal size SMS(mm)	d5 (mm)	c (mm)	d1 (mm)	d3 (mm)	d6 (mm)	d7 (mm)	d10 (mm)	d11 (mm)	h (mm)	k (mm)	s (mm)
25	Rd 40 x 1/6"	15	22.6	32	35.5	25.6	51	25	7.5	20	5.5
38	Rd 60 x 1/6"	20	35.6	48	55	38.6	74	38	9.0	25	5.5
51	Rd 70 x 1/6"	20	47.6	61	65	51.6	84	51	9.0	26	5.5
63	Rd 85 x 1/6"	24	60.3	73.5	80	64.1	100	63.5	9.0	30	5.5
76	Rd 98 x 1/6"	24	72.9	86	93	76.7	114	76.1	10.0	32	5.5
101	Rd 132 x 1/4"	35	97.6	114	127	102.5	149.5	101.4	12.0	45	5.5

TC聯軸器 TC Couplings

國際標準 International Standard: EN ISO 1127

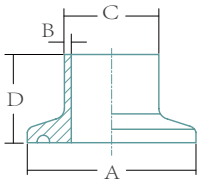


夾子 Clamp

ISO-DN(mm)	E(mm)	B(mm)	C(mm)
8~15	45	63	38
20~32	64	88	54.5
40	77	105	68
50	91	123	81.5
65	104	137	95
80	119	155	110
100	145	180	134
125	170	205	159
150	198	233	187
200	249	284	237.5

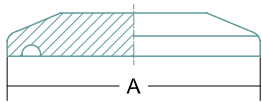
TC聯軸器(續) TC Couplings (Continued)

國際標準 International Standard: EN ISO 1127



焊接夾具套圈 Welding Clamp Ferrule

標稱尺寸 Normal size DN(mm)	A(mm)	B(mm)	C(mm)	D(mm)
8	34	10.3	13.5	18
10	34	14	17.2	18
15	34	18.1	21.3	18
20	50.5	23.7	26.9	21.5
25	50.5	29.7	33.7	21.5
32	50.5	38.4	42.4	21.5
40	64	44.3	48.3	21.5
50	77.5	56.3	60.3	28
65	91	72.1	76.1	28
80	106	84.9	88.9	28
100	130	110.3	114.3	28
125	155	135.7	139.7	28
150	183	163.1	168.3	28
200	233.5	213.9	219.1	28



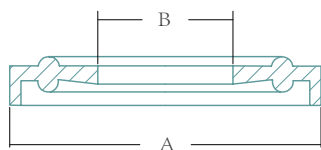
TC盲板 TC Blind Flange

標稱尺寸 Normal size DN(mm)	A(mm)
10	34
15	34
20	50.5
25	50.5
32	50.5
40	64
50	77.5

標稱尺寸 Normal size DN(mm)	A(mm)
65	91
80	106
100	130
125	155
150	183
200	233.5

TC聯軸器 (續) TC Couplings (Continued)

國際標準 International Standard: EN ISO 1127

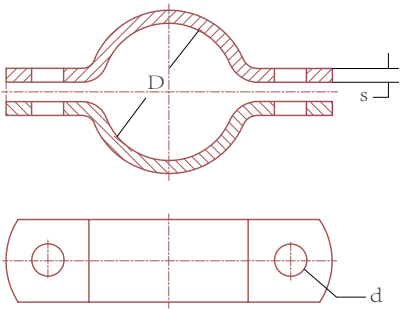


墊片 Gasket

標稱尺寸 Normal size DN(mm)	A(mm)	B(mm)
8	34	10.5
10	34	14.2
15	34	18.3
20	50.5	23.9
25	50.5	29.9
32	50.5	38.6
40	64	44.5

標稱尺寸 Normal size DN(mm)	A(mm)	B(mm)
50	77.5	56.5
65	91	72.3
80	106	85.1
100	130	110.5
125	155	135.9
150	183	163.3
200	233.5	214.1

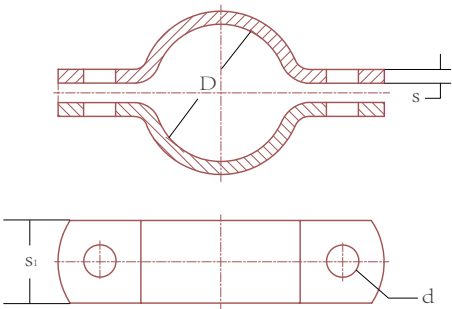
喉箍 DIN 3567 Clamp DIN 3567



標稱尺寸 Normal Size DN(mm)	D(mm)	d(mm)
10	17.2	M6 x 16
15	21.3	M6 x 16
20	25.4	M6 x 20
20	26.9	M6 x 20
25	33.7	M6 x 20
32	38.1	M6 x 20
32	42.4	M6 x 20
40	44.5	M6 x 20
40	48.3	M6 x 20
50	54.0	M6 x 20

標稱尺寸 Normal Size DN(mm)	D(mm)	d(mm)
50	60.3	M6 x 25
65	70.0	M8 x 20
65	76.1	M8 x 20
80	84.0	M8 x 20
80	88.9	M8 x 25
100	101.6	M8 x 25
100	114.3	M8 x 30
125	139.7	M10 x 30
150	168.3	M10 x 30
200	219.1	M10 x 30

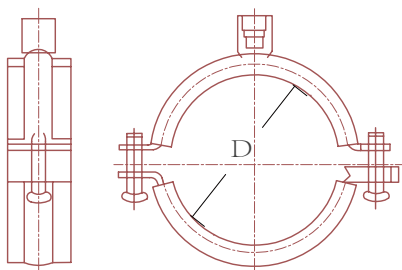
管用喉箍 DIN 3567 Clamp DIN 3567 for Tubes



德國標準 Germany Standard: DIN 11850

標稱尺寸 Normal Size DN(mm)	D(mm)	s ₁ (mm)	d(mm)
15	22	20 x 3	M6
25	28	20 x 3	M6
25	34	20 x 3	M6
32	40	20 x 3	M6
50	52	20 x 3	M6
65	70	20 x 3	M6
80	85	25 x 3	M6
100	104	25 x 3	M6
125	129	30 x 3	M8
150	154	30 x 3	M8
200	204	40 x 4	M8
250	254	40 x 4	M10

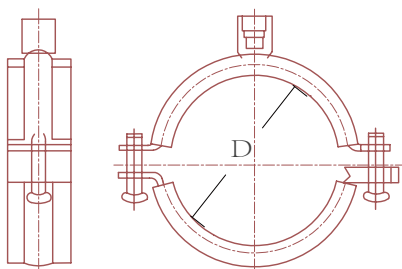
橡膠喉箍 Clamp with Rubber



標稱尺寸 Normal Size DN(mm)	D(mm)
10	15~19
15	20~25
20	25~30
25	32~38
32	40~45

標稱尺寸 Normal Size DN(mm)	D(mm)
40	48~54
50	57~64
65	70~77
80	82~90
100	108~114

鍍鋅橡膠雙管喉箍 Zinc Coated Double Pipe Clamp with Rubber

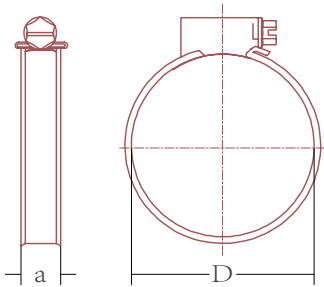


標稱尺寸 Normal Size DN(mm)	D(mm)
10	15~19
15	20~25
20	25~30
25	32~38
32	40~45

標稱尺寸 Normal Size DN(mm)	D(mm)
40	48~54
50	57~64
65	70~77
80	82~90

管 用 喉 箍 DIN 3017 (中 等 壓 力)

Tube Clamp DIN 3017 (Medium Pressure)

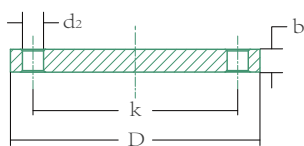


D(mm)	喉箍寬度 Clamp Width a(mm)
7~15	8
8~16	9
12~20	8 14
16~25	8 14
16~27	9 12
20~32	9 12 14
25~40	9 12 14
32~50	9 12 14
40~60	9 12 14

D(mm)	喉箍寬度 Clamp Width a(mm)
50~70	9 12 14
60~80	9 12 14
70~90	9 12 14
80~100	9 12 14
90~110	9 12 14
110~130	9 12 14

盲板法蘭 Blind Flanges

德國標準 Germany Standard: DIN 2527



PN6

標稱尺寸 Normal Size DN(mm)	法蘭 Flange			螺釘 Screws			重量 Weight (kg)
	D(mm)	b(mm)	k(mm)	編號 Number	螺紋 Thread	d2(mm)	
10	75	12	50	4	M 10	11	0.38
15	80	12	55	4	M 10	11	0.44
20	90	14	65	4	M 10	11	0.65
25	100	14	75	4	M 10	11	0.82
32	120	14	90	4	M 12	14	1.17
40	130	14	100	4	M 12	14	1.39
50	140	14	110	4	M 12	14	1.62
65	160	14	130	4	M 12	14	2.44
80	190	16	150	4	M 16	18	3.43
100	210	16	170	4	M 16	18	4.76
125	240	18	200	8	M 16	18	6.11
150	265	18	225	8	M 16	18	7.51
200	320	20	280	8	M 16	18	12.30
250	375	22	335	12	M 16	18	18.30
300	440	22	395	12	M 20	22	25.30
350	490	22	445	12	M 20	22	31.60
400	540	22	495	16	M 20	22	38.40
500	645	24	600	20	M 20	22	60.40

PN10

標稱尺寸 Normal Size DN (mm)	法蘭 Flange			螺釘 Screws			重量 Weight (kg)
	D(mm)	b(mm)	k(mm)	編號 Number	螺紋 Thread	d2(mm)	
10	90	14	60	4	M 12	14	0.63
15	95	14	65	4	M 12	14	0.72
20	105	16	75	4	M 12	14	1.01
25	115	16	85	4	M 12	14	1.23
32	140	16	100	4	M 16	18	1.80
40	150	16	110	4	M 16	18	2.09
50	165	18	125	4	M 16	18	2.88
65	185	18	145	4	M 16	18	3.66
80	200	20	160	8	M 16	18	4.77
100	220	20	180	8	M 16	18	5.65
125	250	22	210	8	M 16	18	8.42
150	285	22	240	8	M 20	22	10.40
200	340	24	295	8	M 20	22	16.50
250	395	26	350	12	M 20	22	24.00
300	445	26	400	12	M 20	22	30.90
350	505	26	460	16	M 20	22	40.60
400	565	26	515	16	M 24	26	49.40
500	670	28	620	20	M 24	26	75.00

盲板法蘭(續) Blind Flanges (Continued)

德國標準 Germany Standard: DIN 2527

PN16

標稱尺寸 Normal Size DN (mm)	法蘭 Flange			螺釘 Screws			重量 Weight (kg)
	D(mm)	b(mm)	k(mm)	編號 Number	螺紋 Thread	d ₂ (mm)	
10	90	14	60	4	M 12	14	0.63
15	95	14	65	4	M 12	14	0.72
20	105	16	75	4	M 12	14	1.01
25	115	16	85	4	M 12	14	1.23
32	140	16	100	4	M 16	18	1.80
40	150	16	110	4	M 16	18	2.09
50	165	18	125	4	M 16	18	2.88
65	185	18	145	4	M 16	18	3.66
80	200	20	160	4	M 16	18	4.77
100	220	20	180	4	M 16	18	5.65
125	250	22	210	8	M 16	18	8.42
150	285	22	240	8	M 20	22	10.40
200	340	24	295	8	M 20	22	16.50
250	405	26	355	12	M 24	26	24.90
300	460	28	410	12	M 24	26	35.10
350	520	30	470	12	M 24	26	47.80
400	580	32	525	16	M 27	30	63.50
500	715	36	650	20	M 30	32	102.00

PN25

標稱尺寸 Normal Size DN (mm)	法蘭 Flange			螺釘 Screws			重量 Weight (kg)
	D(mm)	b(mm)	k(mm)	編號 Number	螺紋 Thread	d ₂ (mm)	
10	90	16	60	4	M 12	14	0.72
15	95	16	65	4	M 12	14	0.81
20	105	18	75	4	M 12	14	1.24
25	115	18	85	4	M 12	14	1.38
32	140	18	100	4	M 16	18	2.03
40	150	18	110	4	M 16	18	2.35
50	165	20	125	4	M 16	18	3.20
65	185	22	145	8	M 16	18	4.29
80	200	24	160	8	M 16	18	5.88
100	235	24	190	8	M 20	22	7.54
125	270	26	220	8	M 24	26	10.80
150	300	28	250	8	M 24	26	14.50
200	360	30	310	12	M 24	26	22.30
250	425	32	370	12	M 27	30	33.50
300	485	34	430	16	M 27	30	46.30
350	555	38	490	16	M 30	33	68.00
400	620	40	550	16	M 33	36	89.70
500	730	45	660	20	M 33	36	138.00

盲板法蘭(續)
Blind Flanges (Continued)

德國標準 Germany Standard: DIN 2527

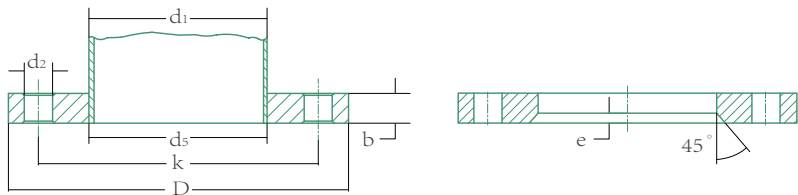
PN40

標稱尺寸 Normal Size DN(mm)	法蘭 Flange			螺釘 Screws			重量 Weight (kg)
	D(mm)	b(mm)	k(mm)	編號 Number	螺紋 Thread	d ₂ (mm)	
10	90	16	60	4	M 12	14	0.72
15	95	16	65	4	M 12	14	0.81
20	105	18	75	4	M 12	14	1.24
25	115	18	85	4	M 12	14	1.38
32	140	18	100	4	M 16	18	2.03
40	150	18	110	4	M 16	18	2.35
50	165	20	125	4	M 16	18	3.20
65	185	22	145	8	M 16	18	4.29
80	200	24	160	8	M 16	18	5.88
100	235	24	190	8	M 20	22	7.54
125	270	26	220	8	M 24	26	10.80
150	300	28	250	8	M 24	26	14.50
200	375	34	320	12	M 27	30	27.20
250	450	38	385	12	M 30	33	43.80
300	515	42	450	16	M 30	33	63.30
350	580	46	510	16	M 33	36	89.50
400	660	50	585	16	M 36	39	127.00
500	755	56	670	20	M 39	42	172.00

平焊法蘭

Plane Welding Flanges

德國標準 Germany Standard: DIN 2573

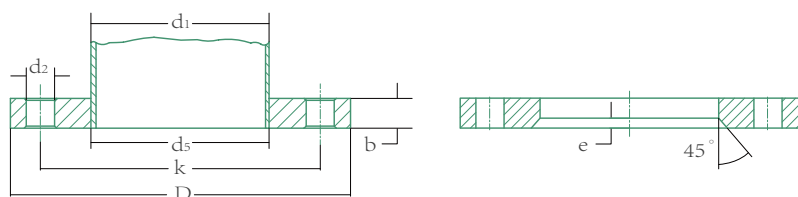


PN6

管 Tube		法蘭 Flange					螺釘 Screws			重量 Weight (kg)
DN(mm)	d1(mm)	d5(mm)	D(mm)	b(mm)	e(mm)	k(mm)	編號 Number	螺紋 Thread	d2(mm)	
10	14 17.2	14.5 17.7	75	12	5	50	4	M 10	11	0.363
15	20 21.3	21 22	80	12	5	55	4	M 10	11	0.410
20	25 26.9	26 27.6	90	14	5	65	4	M 10	11	0.600
25	30 33.7	31 34.4	100	14	5	75	4	M 10	11	0.740
32	38 42.4	39 43.1	120	16	5	90	4	M 12	14	1.190
40	44.5 48.3	45.5 49	130	16	5	100	4	M 12	14	1.390
50	57 60.3	58.1 61.1	140	16	6	110	4	M 12	14	1.530
65	76.1	77.1	160	16	6	130	4	M 12	14	1.890
80	88.9	90.3	190	18	7	150	4	M 16	18	2.980
100	108 114.3	109.6 115.9	210	18	7	170	4	M 16	18	3.460
125	133 139.7	134.8 141.6	240	20	7	200	8	M 16	18	4.600
150	159 168.3	161.1 170.5	265	20	7	225	8	M 16	18	5.220
200	219.1	221.8	320	22	7	280	8	M 16	18	7.150
250	267 273	270.2 276.2	375	24	7	335	12	M 16	18	9.610
300	323.9	327.6	440	24	7	395	12	M 20	22	12.600
350	355.6 368	359.7 372.2	490	26	7	445	12	M 20	22	15.600
400	406.4 419	411 423.7	540	28	7	495	16	M 20	22	18.400
500	508	513.6	645	30	7	600	20	M 20	22	24.600

平焊法蘭 Plane Welding Flanges

德國標準 Germany Standard: DIN 2576



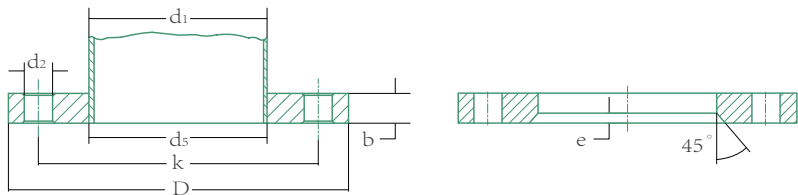
PN10

管 Tube		法蘭 Flange					螺釘 Screws			重量 Weight (kg)
DN(mm)	d1(mm)	d5(mm)	D(mm)	b(mm)	e(mm)	k(mm)	編號 Number	螺紋 Thread	d2(mm)	
10	14 17.2	14.5 17.7	90	14	5	60	4	M 12	14	0.613 0.605
15	20 21.3	21 22	95	14	5	65	4	M 12	14	0.675 0.669
20	25 26.9	26 27.6	105	16	5	75	4	M 12	14	0.749 0.936
25	30 33.7	31 34.4	115	16	5	85	4	M 12	14	1.140 1.110
32	38 42.4	39 43.1	140	16	5	100	4	M 16	18	1.660 1.620
40	44.5 48.3	45.5 49	150	16	5	110	4	M 16	18	1.890 1.860
50	57 60.3	58.1 61.1	165	18	6	125	4	M 16	18	2.510 2.470
65	76.1	77.1	185	18	6	145	4	M 16	18	3.000
80	88.9	90.3	200	20	7	160	4	M 16	18	3.790
100	108 114.3	109.6 115.9	220	20	7	180	8	M 16	18	4.200 4.030
125	133 139.7	134.8 141.6	250	22	7	210	8	M 16	18	5.710 5.460
150	159 168.3	161.1 170.5	285	22	7	240	8	M 20	22	6.720 6.570
200	219.1	221.8	340	24	7	295	8	M 20	22	9.310
250	267 273	270.2 276.2	395	26	7	350	12	M 20	22	12.500 11.900
300	323.9	327.6	445	26	7	400	12	M 20	22	13.800
350	355.6 368	359.7 372.2	505	28	7	460	16	M 20	22	20.600 19.000
400	406.4 419	411 423.7	565	32	7	515	16	M 24	26	27.900 25.900
500	508	513.6	670	38	7	620	20	M 24	26	41.100

平焊法蘭

Plane Welding Flanges

歐洲標準 European Standard: EN 1092-1

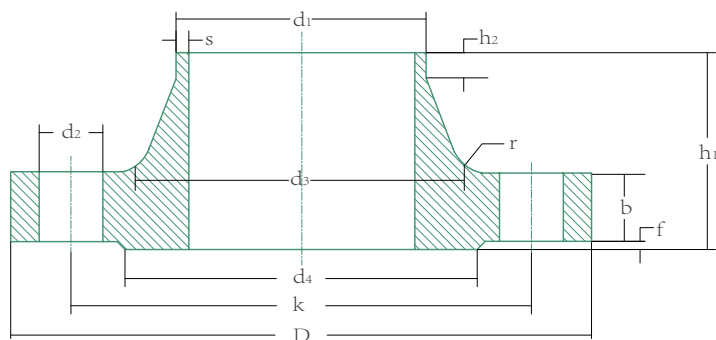


PN16

管 Tube		法蘭 Flange					螺釘 Screws			重量 Weight (kg)
DN(mm)	d1(mm)	d5(mm)	D(mm)	b(mm)	e(mm)	k(mm)	編號 Number	螺紋 Thread	d2(mm)	
10	13.5	14	90	14	5	60	4	M 12	14	0.613
	17.2	17.5								0.605
15	20	20.5	95	14	5	65	4	M 12	14	0.675
	21.3	22								0.669
20	25	25.5	105	16	5	75	4	M 12	14	0.749
	26.9	27.5								0.936
25	30	30.5	115	16	5	85	4	M 12	14	1.140
	33.7	34.5								1.110
32	38	38.5	140	18	5	100	4	M 16	18	1.660
	42.4	43								1.620
40	44.5	45	150	18	5	110	4	M 16	18	1.890
	48.3	49								1.860
50	57	57.5	165	19	6	125	4	M 16	18	2.510
	60.3	61								2.470
65	76.1	77	185	20	6	145	4	M 16	18	3.000
80	88.9	90	200	20	7	160	8	M 16	18	3.790
100	108	109	220	22	7	180	8	M 16	18	4.600
	114.3	115								4.420
125	133	134	250	22	7	210	8	M 16	18	6.210
	139.7	141								5.920
150	159	160	285	24	7	240	8	M 20	22	7.660
	168.3	169								7.220
200	219.1	220	340	26	7	295	12	M 20	22	9.840
250	267	268	405	29	7	355	12	M 24	26	16.600
	273	274								16.000
300	323.9	325	460	32	7	410	12	M 24	26	19.200
350	355.6	356.5	520	35	7	470	16	M 24	26	29.500
	368	369								27.400
400	406.4	407.5	580	38	7	525	16	M 27	30	36.700
	419	420								34.100
500	508	509	715	46	7	650	20	M 30	33	62.500

對焊法蘭 Welding Neck Flanges

德國標準 Germany Standard: DIN 2631

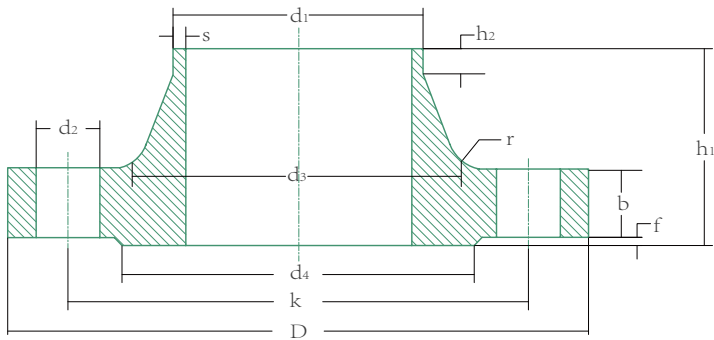


PN6

管 Tube(mm)		法蘭 Flange(mm)				頸部 Neck(mm)						螺釘 Screws			重量 Weight (kg)
DN	d1	D	b	k	h1	d3	s	r	h2	d4	f	編號 Number	螺紋 Thread	d2 (mm)	
10	14 17.2	75	12	50	28	22 26	1.8	4	6	35	2	4	M 10	11	0.335
15	20 21.3	80	12	55	30	28 30	2	4	6	40	2	4	M 10	11	0.392
20	25 26.9	90	14	65	32	35 38	2.3	4	6	50	2	4	M 10	11	0.592
25	30 33.7	100	14	75	35	40 42	2.6	4	6	60	2	4	M 10	11	0.747
32	38 42.4	120	14	90	35	50 55	2.6	6	6	70	2	4	M 12	14	1.05
40	44.5 48.3	130	14	100	38	58 62	2.6	6	7	80	3	4	M 12	14	1.18
50	57 60.3	140	14	110	38	70 74	2.9	6	8	90	3	4	M 12	14	1.34
65	76.1	160	14	130	38	88	2.9	6	9	110	3	4	M 12	14	1.67
80	88.9	190	16	150	42	102	3.2	8	10	128	3	4	M 16	18	2.71
100	108 114.3	210	16	170	45	122 130	3.6	8	10	148	3	4	M 16	18	3.24
125	133 139.7	240	18	200	48	148 155	4	8	10	178	3	8	M 16	18	4.49
150	159 168.3	265	18	225	48	172 184	4.5	10	12	202	3	8	M 16	18	5.15
200	219.1	320	20	280	55	236	5.9	10	15	258	3	8	M 16	18	7.78
250	267 273	375	22	335	60	282 290	6.3	12	15	312	3	12	M 16	18	10.8
300	323.9	440	22	395	62	342	7.1	12	15	365	4	12	M 20	22	14.0
350	355.6 368	490	22	445	62	385	7.1	12	15	415	4	12	M 20	22	18.5 16.7
400	406.4 419	540	22	495	65	438	7.1	12	15	465	4	16	M 20	22	21.2 19.0
500	508	645	24	600	68	538	7.1	12	15	570	4	20	M 20	22	28.6

對焊法蘭
Welding Neck Flanges

德國標準 Germany Standard: DIN 2632

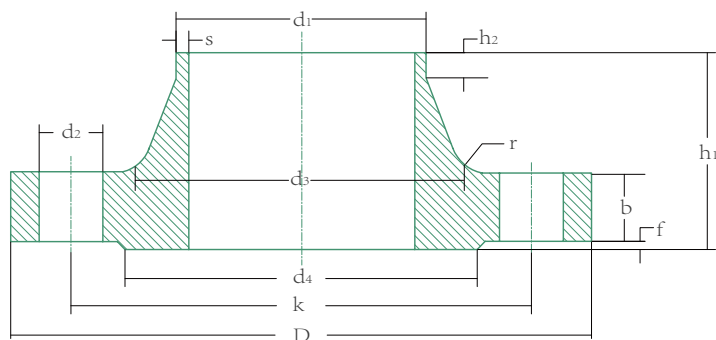


PN10

管 Tube(mm)		法蘭 Flange(mm)				頸部 Neck(mm)						螺釘 Screws			重量 Weight (kg)
DN	d1	D	b	k	h1	d3	s	r	h2	d4	f	編號 Number	螺紋 Thread	d2 (mm)	
10	14 17.2	90	14	60	35	25 28	1.8	4	6	40	2	4	M 12	14	0.58
15	20 21.3	95	14	65	35	30 32	2	4	6	45	2	4	M 12	14	0.648
20	25 26.9	105	16	75	38	38 40	2.3	4	6	58	2	4	M 12	14	0.952
25	30 33.7	115	16	85	38	42 45	2.6	4	6	68	2	4	M 12	14	1.14
32	38 42.4	140	16	100	40	52 56	2.6	6	6	78	2	4	M 16	18	1.69
40	44.5 48.3	150	16	110	42	60 64	2.6	6	7	88	3	4	M 16	18	1.86
50	57 60.3	165	18	125	45	72 75	2.9	6	8	102	3	4	M 16	18	2.53
65	76.1	185	18	145	45	90	2.9	6	10	122	3	4	M 16	18	3.06
80	88.9	200	20	160	50	105	3.2	8	10	138	3	8	M 16	18	3.70
100	108 114.3	220	20	180	52	125 131	3.6	8	12	158	3	8	M 16	18	4.62
125	133 139.7	250	22	210	55	150 156	4	8	12	188	3	8	M 16	18	6.3
150	159 168.3	285	22	240	55	175 184	4.5	10	12	212	3	8	M 20	22	7.75
200	219.1	340	24	295	62	235	5.9	10	16	268	3	8	M 20	22	11
250	267 273	395	26	350	68	285 292	6.3	12	16	320	3	12	M 20	22	14.7
300	323.9	445	26	400	68	344	7.1	12	16	370	4	12	M 20	22	17.4
350	355.6 368	505	26	460	68	385	7.1	12	16	430	4	16	M 20	22	23.6 21.6
400	406.4 419	565	26	515	72	440	7.1	12	16	482	4	16	M 24	26	28.6 26.2
500	508	670	28	620	75	542	7.1	12	16	585	4	20	M 24	26	38.1

對焊法蘭 Welding Neck Flanges

德國標準 Germany Standard: DIN 2633

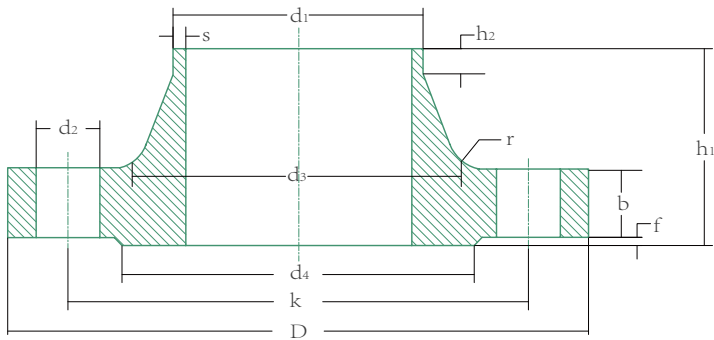


PN16

管 Tube(mm)		法蘭 Flange(mm)				頸部 Neck(mm)						螺釘 Screws			重量 Weight (kg)
DN	d1	D	b	k	h1	d3	s	r	h2	d4	f	編號 Number	螺紋 Thread	d2 (mm)	
10	14 17.2	90	14	60	35	25 28	1.8	4	6	40	2	4	M 12	14	0.58
15	20 21.3	95	14	65	35	30 32	2	4	6	45	2	4	M 12	14	0.648
20	25 26.9	105	16	75	38	38 40	2.3	4	6	58	2	4	M 12	14	0.952
25	30 33.7	115	16	85	38	42 45	2.6	4	6	68	2	4	M 12	14	1.14
32	38 42.4	140	16	100	40	52 56	2.6	6	6	78	2	4	M 16	18	1.69
40	44.5 48.3	150	16	110	42	60 64	2.6	6	7	88	3	4	M 16	18	1.86
50	57 60.3	165	18	125	45	72 75	2.9	6	8	102	3	4	M 16	18	2.53
65	76.1	185	18	145	45	90	2.9	6	10	122	3	4	M 16	18	3.06
80	88.9	200	20	160	50	105	3.2	8	10	138	3	8	M 16	18	3.70
100	108 114.3	220	20	180	52	125 131	3.6	8	12	158	3	8	M 16	18	4.62
125	133 139.7	250	22	210	55	150 156	4	8	12	188	3	8	M 16	18	6.3
150	159 168.3	285	22	240	55	175 184	4.5	10	12	212	3	8	M 20	22	7.75
200	219.1	340	24	295	62	235	5.9	10	16	268	3	12	M 20	22	11
250	267 273	405	26	355	70	285 292	6.3	12	16	320	3	12	M 24	26	15.6
300	323.9	460	28	410	78	344	7.1	12	16	378	4	12	M 24	26	22
350	355.6 368	520	30	470	82	390	8	12	16	438	4	16	M 24	26	31.2 28.8
400	406.4 419	580	32	525	85	445	8	12	16	490	4	16	M 27	30	39.3 36.3
500	508	715	34	650	90	548	8	12	16	610	4	20	M 30	33	61
600	610	840	36	770	95	652	8.8	12	18	725	5	20	M 33	36	75.4

對焊法蘭
Welding Neck Flanges

德國標準 Germany Standard: DIN 2634

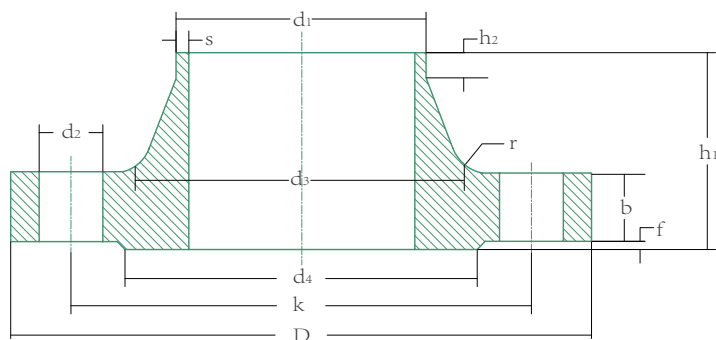


PN25

管 Tube(mm)		法蘭 Flange(mm)				頸部 Neck(mm)						螺釘 Screws			重量 Weight (kg)
DN	d1	D	b	k	h1	d3	s	r	h2	d4	f	編號 Number	螺紋 Thread	d2 (mm)	
10	14 17.2	90	16	60	35	25 28	1.8	4	6	40	2	4	M 12	14	0.661
15	20 21.3	95	16	65	38	30 32	2	4	6	45	2	4	M 12	14	0.746
20	25 26.9	105	18	75	40	38 40	2.3	4	6	58	2	4	M 12	14	1.06
25	30 33.7	115	18	85	40	42 46	2.6	4	6	68	2	4	M 12	14	1.29
32	38 42.4	140	18	100	42	52 56	2.6	6	6	78	2	4	M 16	18	1.88
40	44.5 48.3	150	18	110	45	60 64	2.6	6	7	88	3	4	M 16	18	2.33
50	57 60.3	165	20	125	48	72 75	2.9	6	8	102	3	4	M 16	18	2.82
65	76.1	185	22	145	52	90	2.9	6	10	122	3	8	M 16	18	3.74
80	88.9	200	24	160	58	105	3.2	8	12	138	3	8	M 16	18	4.75
100	108 114.3	235	24	190	65	128 134	3.6	8	12	162	3	8	M 20	22	6.52
125	133 139.7	270	26	220	68	155 162	4	8	12	188	3	8	M 24	26	9.07
150	159 168.3	300	28	250	75	182 192	4.5	10	12	218	3	8	M 24	26	11.8
200	219.1	360	30	310	80	244	6.3	10	16	278	3	12	M 24	26	17
250	267 273	425	32	370	88	292 298	7.1	12	18	335	3	12	M 27	30	24.4
300	323.9	485	34	430	92	352	8	12	18	395	4	16	M 27	30	31.2
350	355.6 368	555	38	490	100	398	8	12	20	450	4	16	M 30	33	47.2 44.2
400	406.4 419	620	40	550	110	452	8.8	12	20	505	4	16	M 33	36	61.7 57.9
500	508	730	44	660	125	558	10	12	20	615	4	20	M 33	36	89.6
600	610	845	46	770	125	660	11	12	20	720	5	20	M 36	39	104

對焊法蘭 Welding Neck Flanges

德國標準 Germany Standard: DIN 2635

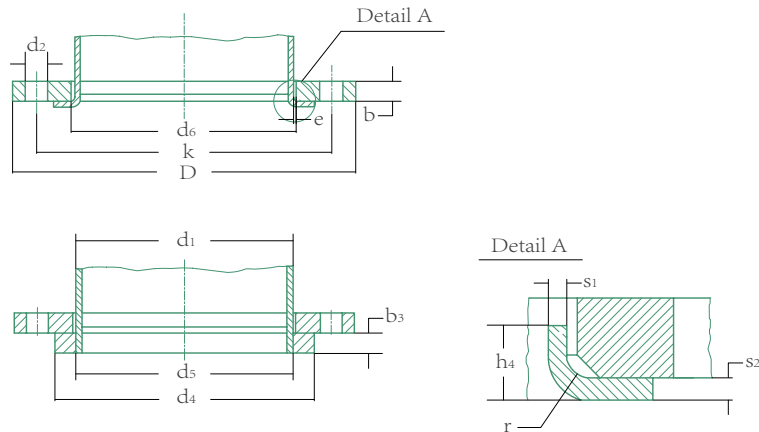


PN40

管 Tube(mm)		法蘭 Flange(mm)				頸部 Neck(mm)						螺釘 Screws			重量 Weight (kg)
DN	d1	D	b	k	h1	d3	s	r	h2	d4	f	編號 Number	螺紋 Thread	d2 (mm)	
10	14 17.2	90	16	60	35	25 28	1.8	4	6	40	2	4	M 12	14	0.661
15	20 21.3	95	16	65	38	30 32	2	4	6	45	2	4	M 12	14	0.746
20	25 26.9	105	18	75	40	38 40	2.3	4	6	58	2	4	M 12	14	1.06
25	30 33.7	115	18	85	40	42 46	2.6	4	6	68	2	4	M 12	14	1.29
32	38 42.4	140	18	100	42	52 56	2.6	6	6	78	2	4	M 16	18	1.88
40	44.5 48.3	150	18	110	45	60 64	2.6	6	7	88	3	4	M 16	18	2.33
50	57 60.3	165	20	125	48	72 75	2.9	6	8	102	3	4	M 16	18	2.82
65	76.1	185	22	145	52	90	2.9	6	10	122	3	8	M 16	18	3.74
80	88.9	200	24	160	58	105	3.2	8	12	138	3	8	M 16	18	4.75
100	108 114.3	235	24	190	65	128 134	3.6	8	12	162	3	8	M 20	22	6.52
125	133 139.7	270	26	220	68	155 162	4	8	12	188	3	8	M 24	26	9.07
150	159 168.3	300	28	250	75	182 192	4.5	10	12	218	3	8	M 24	26	11.8
200	219.1	375	34	320	88	218	6.3	10	16	285	3	12	M 27	30	21.5
250	267 273	450	38	385	105	298 306	7.1	12	18	345	3	12	M 30	33	34.9
300	323.9	515	42	450	115	362	8	12	18	410	4	16	M 30	33	49.7
350	355.6 368	580	46	510	125	408	8.8	12	20	465	4	16	M 33	36	68.1
400	406.4 419	660	50	585	135	462	11	12	20	535	4	16	M 36	39	96.4
500	508	755	52	670	140	562	14.2	12	20	615	4	20	M 39	42	117

鬆套法蘭 Loose Flanges

德國標準 Germany Standard: DIN 2641

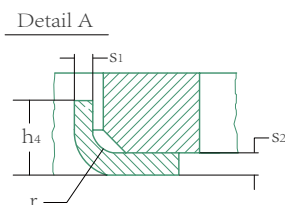
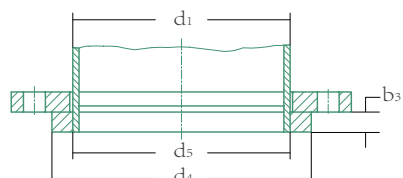
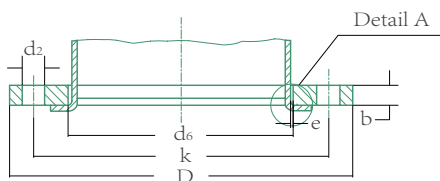


PN6

管 Tube(mm)		法蘭 Flange(mm)					螺釘 Screws			焊接環/圈 Welding Collar / Lap (mm)					重量 Weight(kg)	
DN	d1	D	d6	b	k	e	編號 Number	螺紋 Thread	d2 (mm)	d5	d4	h4	s1	s2	法蘭 Flange	法蘭盤 Coil
10	14 17.2	75	16 19	10	50	2	4	M 10	11	14.5 17.7	35	9	1.8	3	0.298	0.05
15	20 21.3	80	22 24	10	55	2	4	M 10	11	21 22	40	9	2	3	0.337	0.063
20	25 26.9	90	28 30	10	65	2	4	M 10	11	26 27.6	50	12	2	3	0.418	0.116
25	30 33.7	100	33 36	12	75	3	4	M 10	11	31 34.4	60	15	2	3	0.62	0.166
32	38 42.4	120	42 46	12	90	3	4	M 12	14	39 43.1	70	15	2.6	3.5	0.874	0.213
40	44.5 48.3	130	50 54	12	100	3	4	M 12	14	45.5 49	80	17	2.6	2.6	1.01	0.273
50	57 60.3	140	62 65	12	110	3	4	M 12	14	58.1 61.1	90	23	2.6	2.9	1.12	0.359
65	76.1	160	81	12	130	3	4	M 12	14	77.1	110	23	2.6	2.9	1.35	0.468
80	88.9	190	94	14	150	3	4	M 16	18	90.3	128	28	3.2	3	2.24	0.73
100	108 114.3	210	113 119	14	170	3	4	M 16	18	109.6 115.9	148	30	3.2	3	2.59	0.884
125	133 139.7	240	138 145	14	200	3	8	M 16	18	134.8 141.6	178	30	3.2	3	3.1	1.21
150	159 168.3	265	164 173	14	225	3	8	M 16	18	161.1 170.5	202	30	3.2	3	3.52	1.34
200	219.1	320	225	16	280	3	8	M 16	18	221.8	258	30	3.2		4.98	2
250	267 273	375	273 279	20	335	3	12	M 16	18	270.2 276.2	312	30	4	3	7.67	2.89
300	323.9	440	329	24	395	4	12	M 20	22	327.6	365	35	4	5	12.3	3.56
350	355.6 368	490	362 374	26	445	4	12	M 20	22	359.7 372.2	415	—	—	5	15.1	4.08
400	406.4 419	540	413 426	28	495	4	16	M 20	22	411 423.7	465	—	—	—	17.7	4.91
500	508	645	517	32	600	4	20	M 20	22	513.6	570	—	—	—	25.4	7.39
600	610	755	618	36	705	4	20	M 24	26	616.6	670	—	—	—	36.3	8.6

鬆套法蘭 Loose Flanges

德國標準 Germany Standard: DIN 2642

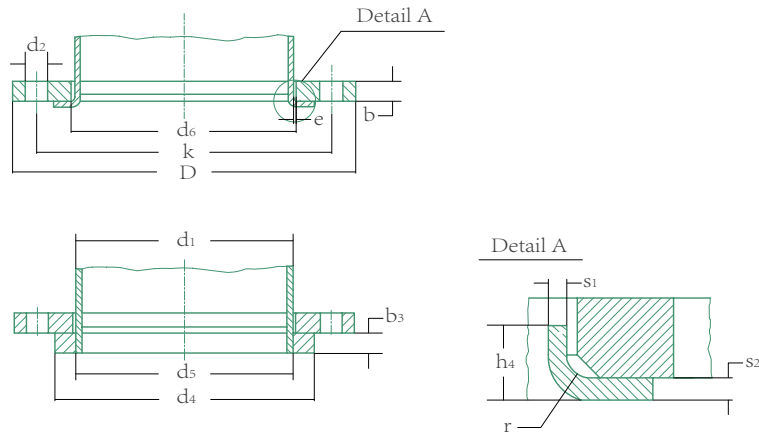


PN10

管 Tube(mm)		法蘭 Flange(mm)					螺釘 Screws			焊接環/圈 Welding Collar / Lap (mm)					重量 Weight(kg)	
DN	d1	D	d6	b	k	e	編號 Number	螺紋 Thread	d2 (mm)	d5	d4	h4	s1	s2	法蘭 Flange	法蘭盤 Coil
10	14 17.2	90	16 19	14	60	3	4	M 12	14	14.5 17.7	40	9	1.8	3	0.599	0.087
15	20 21.3	95	22 24	14	65	3	4	M 12	14	21 22	45	9	2	3	0.689	0.105
20	25 26.9	105	28 30	14	75	3	4	M 12	14	26 27.6	58	12	2	3	0.806	0.203
25	30 33.7	115	33 36	16	85	4	4	M 12	14	31 34.4	68	15	2	3	1.11	0.276
32	38 42.4	140	42 46	16	100	4	4	M 16	18	39 43.1	78	15	2.6	3.5	1.64	0.343
40	44.5 48.3	150	50 54	16	110	4	4	M 16	18	45.5 49	88	17	2.6	3.5	1.86	0.426
50	57 60.3	165	62 65	16	125	5	4	M 16	18	58.1 61.1	102	23	2.6	3.5	2.2	0.618
65	76.1	185	81	16	145	5	4	M 16	18	77.1	122	23	2.6	3.5	2.62	0.786
80	88.9	200	94	18	160	5	8	M 16	18	90.3	138	23	3.2	4	3.32	1.1
100	108 114.3	220	113 119	18	180	5	8	M 16	18	109.6 115.9	158	28	3.2	4	3.67	1.31
125	133 139.7	250	138 145	18	210	5	8	M 16	18	134.8 141.6	188	30	3.2	4	4.54	1.96
150	159 168.3	285	164 173	18	240	5	8	M 20	22	161.1 170.5	212	30	3.2	4	5.6	2.18
200	219.1	340	225	20	295	5	8	M 20	22	221.8	268	30	3.2	4	7.46	3.1
250	267 273	395	273 279	22	350	5	12	M 20	22	270.2 276.2	320	30	4	5	10.3	4.22
300	323.9	445	329	26	400	5	12	M 20	22	327.6	370	35	4	5	14	4.85
350	355.6 368	505	362 374	28	460	6	16	M 20	22	359.7 372.2	430	—	—	—	18.5	6.71
400	406.4 419	565	413 426	32	515	6	16	M 24	26	411 423.7	482	—	—	—	25	8.28
500	508	670	517	38	620	6	20	M 24	26	513.6	585	—	—	—	37	11.5
600	610	780	618	44	725	7	20	M 27	30	616.6	685	—	—	—	56.3	15.6

鋁鬆套法蘭
Aluminium Loose Flanges

德國標準 Germany Standard: DIN 2642



PN10

管 Tube(mm)		法蘭 Flange(mm)					螺釘 Screws			焊接環/圈 Welding Collar / Lap (mm)					重量 Weight(kg)	
DN	d1	D	d6	b	k	e	編號 Number	螺紋 Thread	d2 (mm)	d5	d4	h4	s1	s2	法蘭 Flange	法蘭盤 Coil
10	14 17.2	90	16 19	12	60	3	4	M 12	14	14.5 17.7	40	9	1.8	3	0.216	0.031
15	20 21.3	95	22 24	12	65	3	4	M 12	14	21 22	45	9	2	3	0.248	0.038
20	25 26.9	105	28 30	12	75	3	4	M 12	14	26 27.6	58	12	2	3	0.290	0.073
25	30 33.7	115	33 36	12	85	4	4	M 12	14	31 34.4	68	15	2	3	0.399	0.099
32	38 42.4	140	42 46	16	100	4	4	M 16	18	39 43.1	78	15	2.6	3.5	0.59	0.123
40	44.5 48.3	150	50 54	16	110	4	4	M 16	18	45.5 49	88	17	2.6	3.5	0.68	0.153
50	57 60.3	165	62 65	16	125	5	4	M 16	18	58.1 61.1	102	23	2.6	3.5	0.792	0.222
65	76.1	185	81	16	145	5	4	M 16	18	77.1	122	23	2.6	3.5	0.943	0.283
80	88.9	200	94	18	160	5	8	M 16	18	90.3	138	23	3.2	4	1.195	0.396
100	108 114.3	220	113 119	18	180	5	8	M 16	18	109.6 115.9	158	28	3.2	4	1.321	0.472
125	133 139.7	250	138 145	18	210	5	8	M 16	18	134.8 141.6	188	30	3.2	4	1.634	0.706
150	159 168.3	285	164 173	18	240	5	8	M 20	22	161.1 170.5	212	30	3.2	4	2.016	0.785
200	219.1	340	225	20	295	5	8	M 20	22	221.8	268	30	3.2	4	2.686	1.116
250	267 273	395	273 279	22	350	5	12	M 20	22	270.2 276.2	320	30	4	5	3.708	1.519
300	323.9	445	329	22	400	5	12	M 20	22	327.6	370	35	4	5	5.04	1.746
350	355.6 368	505	362 374	22	460	6	16	M 20	22	359.7 372.2	430	—	—	—	6.66	2.416
400	406.4 419	565	413 426	32	515	6	16	M 24	26	411 423.7	482	—	—	—	9	2.981
500	508	670	517	28	620	6	20	M 24	26	513.6	585	—	—	—	13.32	4.14
600	610	780	618	30	725	7	20	M 27	30	616.6	685	—	—	—	20.268	5.616

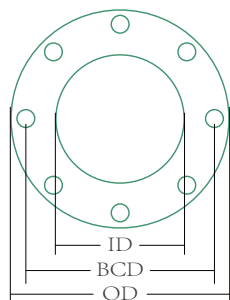
非金屬全面襯墊

Non-metallic Full Face Gaskets

德國標準 Germany Standard: DIN EN 1514-1

適配符合以下標準的法蘭尺寸 Fits to flange dimensions according to: DIN 1092-1, DIN 2501, DIN 2502, DIN 2503, DIN 2527, DIN 2543, DIN 2565, DIN 2566, DIN 2567, DIN 2568, DIN 2573, DIN 2576, DIN 2630, DIN 2631, DIN 2632, DIN 2633, DIN 2634, DIN 2635, DIN 2636, DIN 28115, DIN 86029, DIN 86030

可為客戶提供更大尺寸和定制尺寸。 Larger sizes as well as customized sizes can be furnished.



PN6

DN	ID (mm)	OD (mm)	孔數 Hole Qty	孔徑 Hole Size (mm)	BCD (mm)
10	18	75	4	11	50
15	22	80	4	11	55
20	27	90	4	11	65
25	34	100	4	11	75
32	43	120	4	14	90
40	49	130	4	14	100
50	61	140	4	14	110
60	72	150	4	14	120
65	77	160	4	14	130
80	89	190	4	18	150
100	115	210	4	18	170

DN	ID (mm)	OD (mm)	孔數 Hole Qty	孔徑 Hole Size (mm)	BCD (mm)
125	141	240	8	18	200
150	169	265	8	18	225
200	220	320	8	18	280
250	273	375	12	18	335
300	324	440	12	22	395
350	356	490	12	22	445
400	407	540	16	22	495
450	458	595	16	22	550
500	508	645	20	22	600
600	610	755	20	26	705

PN10

DN	ID (mm)	OD (mm)	孔數 Hole Qty	孔徑 Hole Size (mm)	BCD (mm)
10	18	90	4	14	60
15	22	95	4	14	65
20	27	105	4	14	75
25	34	115	4	14	85
32	43	140	4	18	100
40	49	150	4	18	110
50	61	165	4	18	125
60	72	175	8	18	135
65	77	185	8	18	145
80	89	200	8	18	160
100	115	220	8	18	180
125	141	250	8	18	210
150	169	285	8	22	240
200	220	340	8	22	295
250	273	395	12	22	350
300	324	445	12	22	400

DN	ID (mm)	OD (mm)	孔數 Hole Qty	孔徑 Hole Size (mm)	BCD (mm)
350	356	505	16	22	460
400	407	565	16	26	515
450	458	615	20	26	565
500	508	670	20	26	620
600	610	780	20	30	725
700	712	895	24	30	840
800	813	1015	24	33	950
900	915	1115	28	33	1050
1000	1016	1230	28	36	1160
1100	1120	1340	32	39	1270
1200	1220	1455	32	39	1380
1400	1420	1675	36	42	1590
1500	1520	1785	36	42	1700
1600	1620	1915	40	48	1820
1800	1820	2115	44	48	2020
2000	2020	2325	48	48	2230

非金屬全面襯墊(續) Non-metallic Full Face Gaskets (Continued)

德國標準 Germany Standard: DIN EN 1514-1

PN16

DN	ID	OD	孔數 Hole Qty	孔徑 Hole Size	BCD
	(mm)	(mm)		(mm)	
10	18	90	4	14	60
15	22	95	4	14	65
20	27	105	4	14	75
25	34	115	4	14	85
32	43	140	4	18	100
40	49	150	4	18	110
50	61	165	4	18	125
60	72	175	8	18	135
65	77	185	8	18	145
80	89	200	8	18	160
100	115	220	8	18	180
125	141	250	8	18	210
150	169	285	8	22	240
200	220	340	12	22	295
250	273	405	12	26	355
300	324	460	12	26	410

DN	ID	OD	孔數 Hole Qty	孔徑 Hole Size	BCD
	(mm)	(mm)		(mm)	
350	356	520	16	26	470
400	407	580	16	30	525
450	458	640	20	30	585
500	508	715	20	33	650
600	610	840	20	36	770
700	712	910	24	36	840
800	813	1025	24	39	950
900	915	1125	28	39	1050
1000	1016	1255	28	42	1170
1100	1120	1355	32	42	1270
1200	1220	1485	32	48	1390
1400	1420	1685	36	48	1590
1500	1520	1820	36	56	1710
1600	1620	1930	40	56	1820
1800	1820	2130	44	56	2020
2000	2020	2345	48	62	2230

PN25

DN	ID	OD	孔數 Hole Qty	孔徑 Hole Size	BCD
	(mm)	(mm)		(mm)	
10	18	90	4	14	60
15	22	95	4	14	65
20	27	105	4	14	75
25	34	115	4	14	85
32	43	140	4	18	100
40	49	150	4	18	110
50	61	165	4	18	125
60	72	175	8	18	135
65	77	185	8	18	145
80	89	200	8	18	160
100	115	235	8	22	190
125	141	270	8	26	220
150	169	300	8	26	250
200	220	360	12	26	310
250	273	425	12	30	370
300	324	485	16	30	430

DN	ID	OD	孔數 Hole Qty	孔徑 Hole Size	BCD
	(mm)	(mm)		(mm)	
350	356	555	16	33	490
400	407	620	16	36	550
450	458	670	20	36	600
500	508	730	20	36	660
600	610	845	20	39	770
700	712	960	24	42	875
800	813	1085	24	48	990
900	915	1185	28	48	1090
1000	1016	1320	28	56	1210
1100	1120	1420	32	56	1310
1200	1220	1530	32	56	1420
1400	1420	1755	36	62	1640
1500	1520	1865	36	62	1750
1600	1620	1975	40	62	1860
1800	1820	2195	44	70	2070
2000	2020	2425	48	70	2300

PN40

DN	ID	OD	孔數 Hole Qty	孔徑 Hole Size	BCD
	(mm)	(mm)		(mm)	
10	18	90	4	14	60
15	22	95	4	14	65
20	27	105	4	14	75
25	34	115	4	14	85
32	43	140	4	18	100
40	49	150	4	18	110
50	61	165	4	18	125
60	72	175	8	18	135
65	77	185	8	18	145
80	89	200	8	18	160
100	115	235	8	22	190

DN	ID	OD	孔數 Hole Qty	孔徑 Hole Size	BCD
	(mm)	(mm)		(mm)	
125	141	270	8	26	220
150	169	300	8	26	250
200	220	375	12	30	320
250	273	450	12	33	385
300	324	515	16	33	450
350	356	580	16	36	510
400	407	660	16	39	585
450	458	685	20	39	610
500	508	755	20	42	670
600	610	890	20	48	795

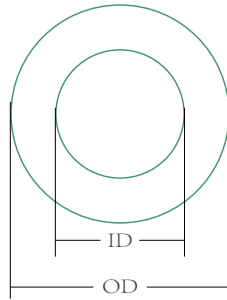
非金屬環形襯墊

Non-metallic Ring Gaskets

德國標準 Germany Standard: DIN EN 1514-1

適配符合以下標準的法蘭尺寸 Fits to flange dimensions according to: DIN 1092-1, DIN 2501, DIN 2502, DIN 2503, DIN 2527, DIN 2543, DIN 2565, DIN 2566, DIN 2567, DIN 2568, DIN 2573, DIN 2576, DIN 2630, DIN 2631, DIN 2632, DIN 2633, DIN 2634, DIN 2635, DIN 2636, DIN 28115, DIN 86029, DIN 86030

可為客戶提供更大尺寸和定制尺寸。 Larger sizes as well as customized sizes can be furnished.



PN6

DN	ID (mm)	OD (mm)
10	18	39
15	22	44
20	27	54
25	34	64
32	43	76
40	49	86
50	61	96
60	72	106
65	77	116
80	89	132
100	115	152
125	141	182
150	169	207
200	220	262
250	273	317
300	324	373
350	356	423
400	407	473
450	458	528

DN	ID (mm)	OD (mm)
500	508	578
600	610	679
700	712	784
800	813	890
900	915	990
1000	1016	1090
1200	1220	1307
1400	1420	1524
1600	1620	1724
1800	1820	1931
2000	2020	2138
2200	2220	2438
2400	2420	2558
2600	2620	2762
2800	2820	2972
3000	3020	3172
3200	3220	3382
3400	3420	3592
3600	3620	3804

PN10

DN	ID (mm)	OD (mm)
10	18	46
15	22	51
20	27	61
25	34	71
32	43	82
40	49	92
50	61	107
60	72	117
65	77	127
80	89	142
100	115	162
125	141	192
150	169	218
200	220	273

DN	ID (mm)	OD (mm)
250	273	328
300	324	378
350	356	438
400	407	489
450	458	539
500	508	594
600	610	695
700	712	810
800	813	917
900	915	1017
1000	1016	1124
1100	1120	1231
1200	1220	1341
1400	1420	1548

非金屬環形襯墊 (續) Non-metallic Ring Gaskets (Continued)

德國標準 Germany Standard: DIN EN 1514-1

PN10

DN	ID (mm)	OD (mm)
1500	1520	1658
1600	1620	1772
1800	1820	1972
2000	2020	2182
2200	2220	2384

DN	ID (mm)	OD (mm)
2400	2420	2594
2600	2620	2794
2800	2820	3014
3000	3020	3228

PN16

DN	ID (mm)	OD (mm)
10	18	46
15	22	51
20	27	61
25	34	71
32	43	82
40	49	92
50	61	107
60	72	117
65	77	127
80	89	142
100	115	162
125	141	192
150	169	218
200	220	273
250	273	329
300	324	384

DN	ID (mm)	OD (mm)
350	356	444
400	407	495
450	458	555
500	508	617
600	610	734
700	712	804
800	813	911
900	915	1011
1000	1016	1128
1100	1120	1228
1200	1220	1342
1400	1420	1542
1500	1520	1654
1600	1620	1764
1800	1820	1964
2000	2020	2168

PN25

DN	ID (mm)	OD (mm)
10	18	46
15	22	51
20	27	61
25	34	71
32	43	82
40	49	92
50	61	107
60	72	117
65	77	127
80	89	142
100	115	168
125	141	194
150	169	224
200	220	284
250	273	340
300	324	400

DN	ID (mm)	OD (mm)
350	356	457
400	407	514
450	458	564
500	508	624
600	610	731
700	712	833
800	813	942
900	915	1042
1000	1016	1154
1100	1120	1254
1200	1220	1364
1400	1420	1578
1500	1520	1688
1600	1620	1798
1800	1820	2000
2000	2020	2230

非金屬環形襯墊(續) Non-metallic Ring Gaskets (Continued)

德國標準 Germany Standard: DIN EN 1514-1

PN40

DN	ID (mm)	OD (mm)
10	18	46
15	22	51
20	27	61
25	34	71
32	43	82
40	49	92
50	61	107
60	72	117
65	77	127
80	89	142
100	115	168

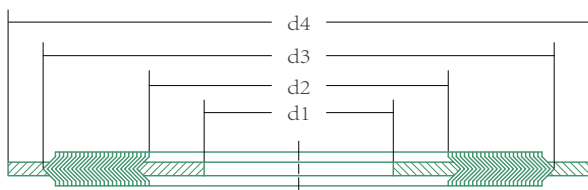
DN	ID (mm)	OD (mm)
125	141	194
150	169	224
200	220	290
250	273	352
300	324	417
350	356	474
400	407	546
450	458	571
500	508	628
600	610	747

金屬纏繞式墊片 Spiral Wound Gaskets

德國標準 Germany Standard: DIN EN 1514-2

適配PN10~PN250的德標法蘭。 Fits to DIN Flanges PN 10~PN 250.

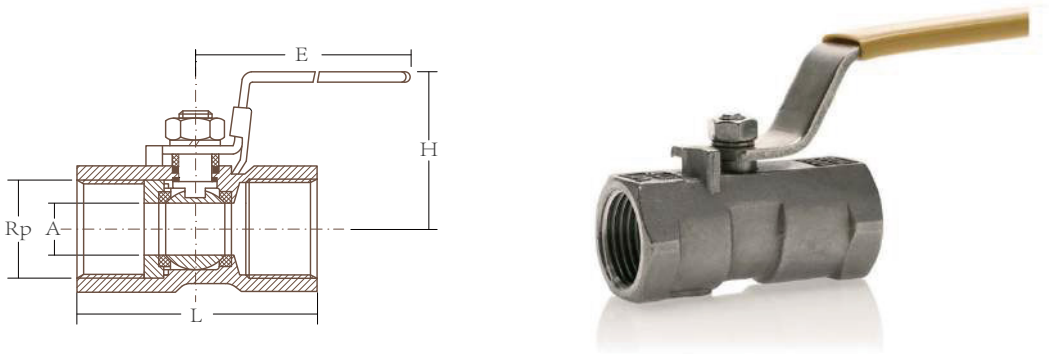
可為客戶提供更大尺寸和定制尺寸。 Larger sizes as well as customized sizes can be furnished.



DN	內圈內徑 Inner Ring ID	密封元件內徑 Sealing Element ID	密封元件外徑 Sealing Element OD d3(mm)		導向環外徑 Guide Ring Outside Diameter d4(mm)							
	d1(mm)	d2(mm)	PN10~40	PN64~250	PN10	PN16	PN25	PN40	PN64	PN100	PN160	PN250
10	18	24	36	36	46	46	46	46	56	56	56	67
15	24	30	42	42	51	51	51	51	61	61	61	72
20	27	33	47	47	61	61	61	61	72	72	72	
25	34	40	54	54	71	71	71	71	82	82	82	83
32	44	50	66	66	82	82	82	82	87	87		
40	51	57	73	73	92	92	92	92	103	103	103	109
50	59	69	87	87	107	107	107	107	113	119	119	124
65	73	83	103	105	127	127	127	127	138	144	144	154
80	87	97	117	121	142	142	142	142	148	154	154	170
100	114	124	144	148	162	162	168	168	174	180	180	202
125	140	150	172	176	192	192	194	194	210	217	217	242
150	168	178	200	204	217	217	224	224	247	257	257	284
175	189	199	225	231	247	247	254	265	277	287	284	316
200	220	230	256	262	272	272	284	290	309	324	324	358
250	269	279	307	315	327	328	340	352	364	391	388	442
300	319	329	357	365	377	383	400	417	424	458	458	538
350	365	375	405	413	437	443	457	474	486	512		
400	416	426	458	466	488	495	514	546	543	572		
500	520	530	566	574	593	617	624	628	657	704		
600	615	630	666	674	695	734	731	747	764	813		
700	715	730	770	778	810	804	833	852	879			
800	815	830	874	882	917	911	942	974	988			
900	915	930	974	982	1017	1011	1042	1084	1108			
1000	1015	1030	1078	1086	1124	1128	1154	1194	1220			

高壓閥/通氣閥/減壓閥 Threated Valves

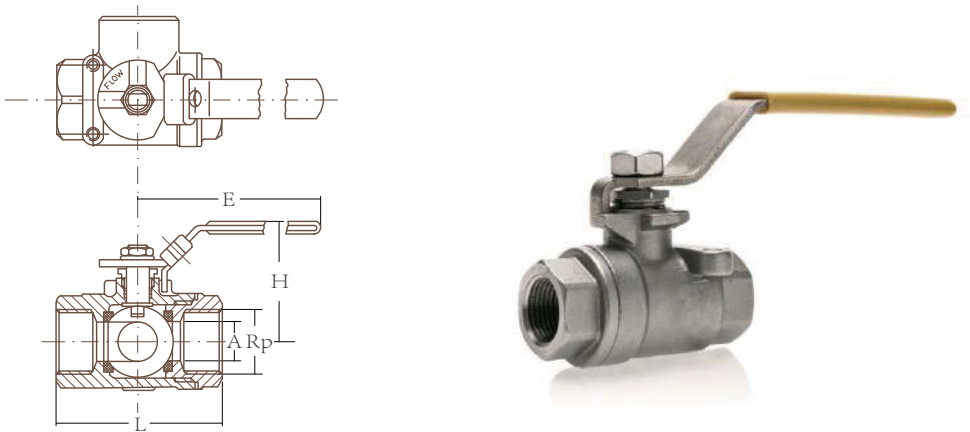
■ V - 003P / 一體式球閥 / 變徑 / PN40 V - 003P / 1 - Piece Ball Valves / Reduced Bore / PN 40



內螺紋符合ISO 228/1 Female thread acc. to ISO 228/1

Rp	A(mm)	L(mm)	H(mm)	E(mm)	重量 Weight (kg)
1/4"	5	39	35	64	0.07
3/8"	7	44	37	70	0.10
1/2"	9.2	56	43.5	90	0.16
3/4"	12.5	58	47	90	0.25
1"	15	71	50	103	0.43
1 1/4"	20	78	57	103	0.70
1 1/2"	24.5	83	69	127	0.83
2"	32	100	74.5	127	1.50

■ V - 004 / 兩件式球閥 / 全通徑 / PN64 V - 004 / 2 - Piece Ball Valves / Full Bore / PN 64

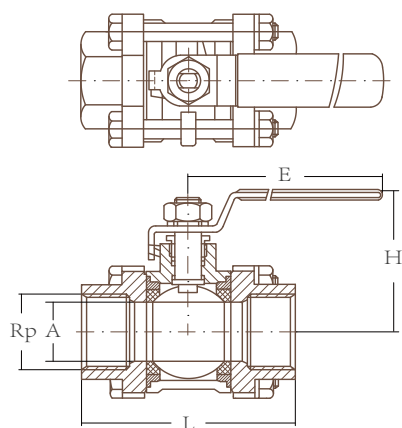


內螺紋符合ISO 228/1 Female thread acc. to ISO 228/1

Rp	A(mm)	L(mm)	H(mm)	E(mm)	重量 Weight (kg)
1/4"	11.2	55.5	50	100	0.23
3/8"	12.6	55.5	50	100	0.23
1/2"	15	65.5	60	130	0.38
3/4"	20	72	64	130	0.5
1"	25	84	71	165	0.78
1 1/4"	32	94	78	165	1.2
1 1/2"	38	110	86	190	1.9
2"	50	126	95	190	2.93

高壓閥/通氣閥/減壓閥 Threated Valves

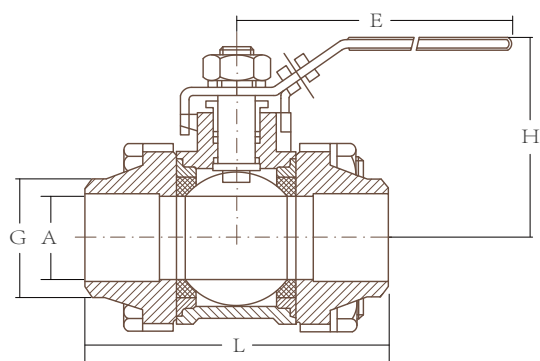
■ V - 205T / 三件式球閥 / 全通徑 / PN64 V - 205T / 3 - Piece Ball Valves / Full Bore / PN 64



尺寸 Dimension	A(mm)	L(mm)	H(mm)	E(mm)	重量 Weight (kg)
1/4"	11.6	57	50	100	0.35
3/8"	12.7	57	50	100	0.35
1/2"	15	65.5	60	130	0.56
3/4"	20	76.2	64	130	0.75
1"	25	86	71	165	1.035
1 1/4"	32	102.8	78	165	1.74
1 1/2"	38	119	86	190	2.41
2"	50	131.3	95	190	3.66
2 1/2"	65	164.5	130	250	7.1
3"	80	182.5	148	250	10.5

球閥(帶對頭焊接端) Ball Valves with Butt Weld Ends

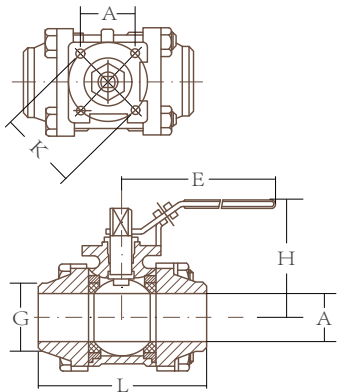
■ V-205B / 三件式球閥 / 全通徑 / 對頭焊接端 / PN64
V-205B / 3 - Piece Ball Valves / Full Bore / Butt Weld Ends / PN 64



尺寸 Dimension	A(mm)	L(mm)	H(mm)	E(mm)	G(mm)	重量 Weight (kg)
1/4"	11.6	60	44	100	14	0.35
3/8"	12.7	60	44	100	17.5	0.35
1/2"	15	64.8	50	130	22.7	0.56
3/4"	20	78.4	54	130	27.5	0.75
1"	25	85.7	65	165	33.5	1.035
1 1/4"	32	101.7	70	165	42	1.74
1 1/2"	38	118.8	84	190	48.6	2.41
2"	50	131.8	92	190	60.5	3.66
2 1/2"	65	164	115	250	76.3	7.1
3"	80	183	125	250	90	10.5

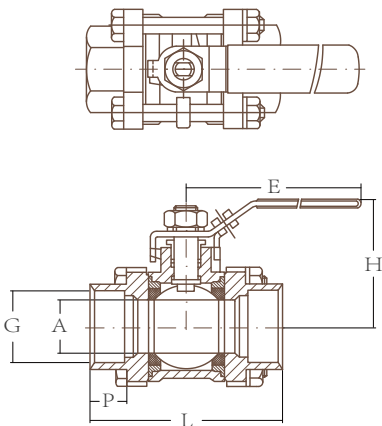
球閥(帶對頭焊接端) Ball Valves with Butt Weld Ends

- V-258B / 三件式球閥 / 全通徑 / 帶安裝墊片的對焊端 / PN64
V-258B / 3 - Piece Ball Valves / Full Bore / Butt Weld Ends with Mounting Pad / PN 64



尺寸 Dimension	A(mm)	L(mm)	H(mm)	E(mm)	G(mm)	K(mm)	重量 Weight (kg)
1/4"	11.6	60	44	100	14	—	0.35
3/8"	12.7	60	44	100	17.5	—	0.35
1/2"	15	64.8	50	130	22.7	36	0.56
3/4"	20	78.4	54	130	27.5	36	0.75
1"	25	85.7	65	165	33.5	42	1.035
1 1/4"	32	101.7	70	165	42	42	1.74
1 1/2"	38	118.8	84	190	48.6	50	2.41
2"	50	131.8	92	190	60.5	50	3.66
2 1/2"	65	164	115	250	76.3	70	7.1
3"	80	183	125	250	90	102	10.5

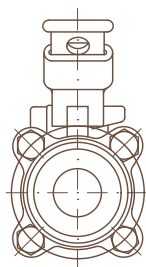
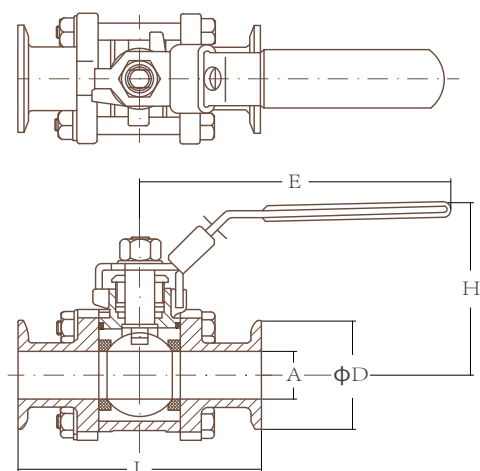
- V-205S / 三件式球閥 / 全通徑 / 嵌焊端 / PN64
V-205S / 3 - Piece Ball Valves / Full Bore / Socked Weld Ends / PN 64



尺寸 Dimension	A(mm)	L(mm)	H(mm)	E(mm)	G(mm)	P(mm)	重量 Weight (kg)
1/4"	11.6	57	50	100	14.1	10	0.35
3/8"	12.7	57	50	100	17.6	10	0.35
1/2"	15	65.5	60	130	21.8	10	0.56
3/4"	20	76.2	64	130	27.4	13	0.75
1"	25	86	71	165	34.1	13	1.035
1 1/4"	32	102.8	78	165	42.8	16	1.74
1 1/2"	38	119	86	190	48.7	16	2.41
2"	50	131.3	95	190	61	18	3.66
2 1/2"	65	164.5	130	250	77	18	7.1
3"	80	182.5	148	250	89.9	20	10.5

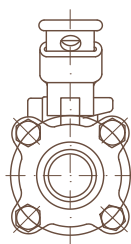
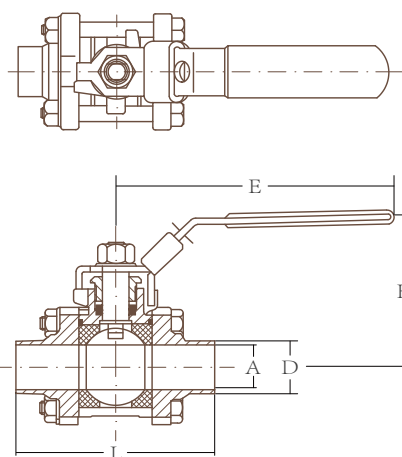
球閥(帶對頭焊接端) Ball Valves with Butt Weld Ends

■ V-005C / 帶TC接頭的三件式球閥 V-005C / 3 - Piece Ball Valves with TC Connections



尺寸 Dimension	A(mm)	L(mm)	D(mm)	H(mm)	E(mm)
1/2"	9.6	75	25.4	64	125
3/4"	15.9	90	25.4	67	125
1"	22.2	100	50.5	83	140
1 1/4"	28.5	110	50.5	89	140
1 1/2"	34.9	125	50.5	100	200
2"	47.5	150	64	108	200
2 1/2"	60.2	190	77.5	150	250
3"	72.9	220	91	161	250
4"	97.4	270	119	180	290

■ V-005E / 三件式球閥 / 全通徑 / 電拋光 V-005E / 3 - Piece Ball Valves / Full Bore / Electropolished

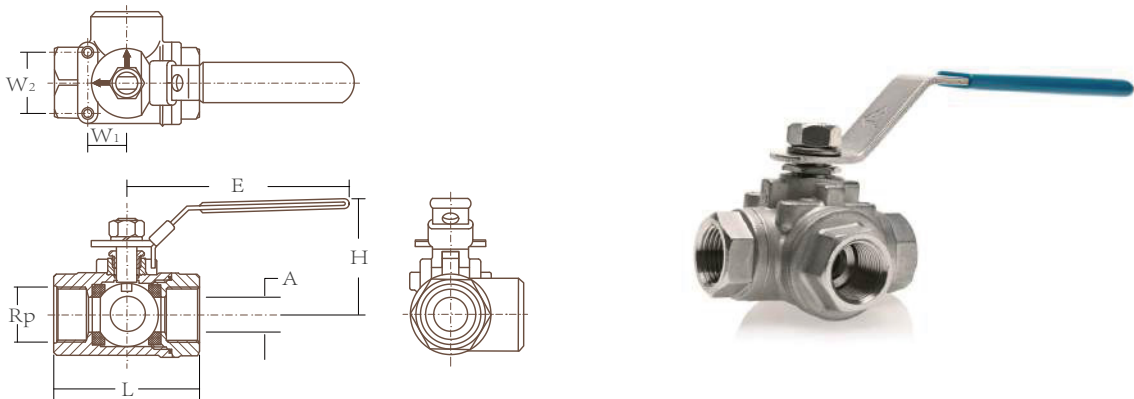


尺寸 Dimension	A(mm)	L(mm)	D(mm)	H(mm)	E(mm)
1/2"	9.6	75	12.7	64	125
3/4"	15.9	90	19	67	125
1"	22.2	100	25.4	83	140
1 1/4"	28.5	110	31.8	89	140
1 1/2"	34.9	125	38.1	100	200
2"	47.5	150	50.8	108	200
2 1/2"	60.2	190	63.5	150	250
3"	72.9	220	76.2	161	250
4"	97.4	270	101.6	180	290

三通閥門

Three-way Valves

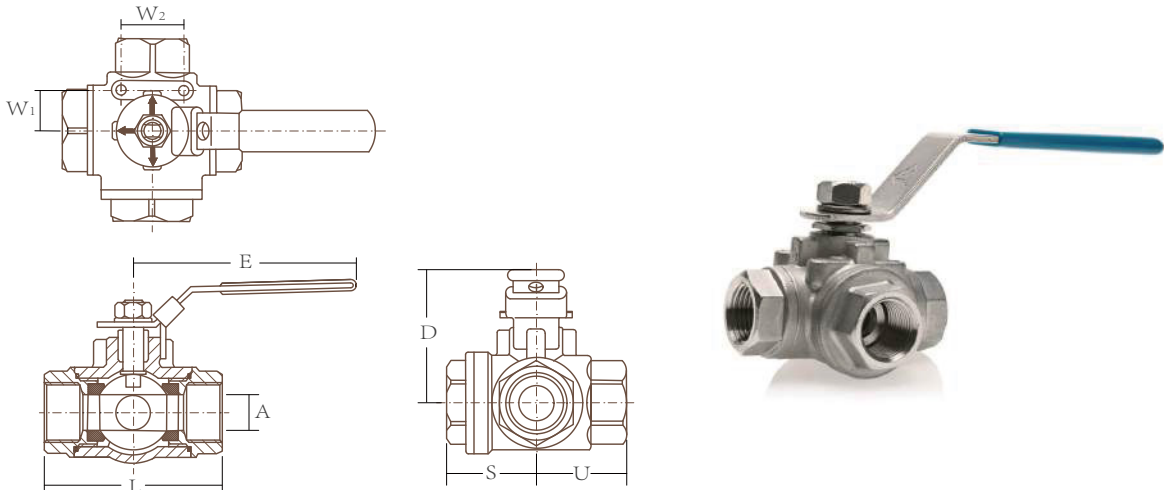
- K-301L / 一件式三通球閥 / L口 / 縮徑 / PN 63
K-301L / 1 - Piece 3 Way Ball Valves / L Port / Reduced Bore / PN 63



內螺紋符合ISO 228/1 Female thread acc. to ISO 228/1

Rp	A(mm)	L(mm)	H(mm)	E(mm)	W1(mm)	W2(mm)
1/4"	11.2	60	56	95	12.7	28.5
3/8"	11.2	60	56	95	12.7	28.5
1/2"	12.7	60	56	95	12.7	28.5
3/4"	16	74	64	125	22.4	35
1"	20	82	66	125	22.4	35
1 1/4"	25	96	70	145	22.4	35
1 1/2"	32	114	83	145	25.4	38.1
2"	38.1	142	88	205	25.4	38.1

- K-301T / 一件式三通球閥 / T口 / 縮徑 / PN 63
K-301T / 1 - Piece 3 Way Ball Valves / T Port / Reduced Bore / PN 63



內螺紋符合ISO 228/1 Female thread acc. to ISO 228/1

Rp	A(mm)	L(mm)	S(mm)	U(mm)	D(mm)	E(mm)
1/2"	12.5	74	34	37.5	53	125
3/4"	15	85	39	42.5	64	125
1"	20	100	51	50	66	145
1 1/4"	25	115	51	57.5	79	145
1 1/2"	32	125	58	62.5	83	205
2"	40	150	63	75	94	205

帶塞卸扣 Shackles with Stopper



d(mm)	A(mm)	H(mm)	L(mm)	重量 Weight (kg/%)
M 4	8	23	15	10
M 5	10	30	20	15
M 6	14	37	26	30
M 8	16	48	32	60
M 10	20	64	45	125
M 12	25	72	48	220
M 14	28	89	61	345
M 16	34	96	64	510
M 19	38	76	114	900
M 25	50	150	100	1740

長鏈 Long Link Chains



德國標準 Germany Standard DIN 763

d(mm)	P(mm)	b ₂ (mm)	重量 Weight (kg/%)
2	22	8	71
3	26	12	150
4	32	16	270
5	35	20	430
6	42	24	630
8	52	32	1100
10	65	40	1750

長鏈(校準) Long Link Chains, Calibrated



德國標準 Germany Standard DIN 766

d(mm)	P(mm)	b ₂ (mm)	重量 Weight (kg/%)
2	12	8	72
3	16	11	160
4	16	14	320
5	18.5	17	500
6	18.5	20	750
8	24	26	1350
10	28	34	2250

鋼絲繩 1 x 19

Wire Rope 1 x 19



尺寸 Dimension d(mm)	破斷拉力 Breaking Force TS(kg/%)	重量 Weight (kg/%)
1	80	5
2	330	19.9
3	740	44.7
4	1300	79.5

尺寸 Dimension d(mm)	破斷拉力 Breaking Force TS(kg/%)	重量 Weight (kg/%)
5	2000	123.8
6	2900	178.2
8	5200	318
10	8200	495

鋼絲繩 7 x 7

Wire Ropes 7 x 7



尺寸 Dimension d(mm)	破斷拉力 Breaking Force TS(kg/%)	重量 Weight (kg/%)
1	60	8
2	220	16
3	500	35
4	900	63

尺寸 Dimension d(mm)	破斷拉力 Breaking Force TS(kg/%)	重量 Weight (kg/%)
5	1400	98
6	2100	142
8	3300	252
10	5200	393

鋼絲繩 7 x 19

Wire Ropes 7 x 19



尺寸 Dimension d(mm)	破斷拉力 Breaking Force TS(kg/%)	重量 Weight (kg/%)
1	60	8
2	230	15.4
3	530	34.5
4	800	61
5	1300	96

尺寸 Dimension d(mm)	破斷拉力 Breaking Force TS(kg/%)	重量 Weight (kg/%)
6	1800	138
7	2500	187
8	3300	243
10	5200	381
12	7500	548

鋼絲繩夾 Wire Rope Clamps



d ₁ (mm)	A(mm)	L(mm)	h(mm)	d(mm)	重量 Weight (kg/%)
M 3	16	10	9	2	7
M 4	22	12	8	3 & 4	15
M 5	24	15	9	5	22
M 6	30	16	11	6	28
M 6	33	20	12	8	45
M 8	37	22	14	10	75
M 10	45	30	16	12	120
M 10	46	30	18	13 & 14	145
M 12	53	35	20	16	170
M 12	55	35	21	18	240
M 12	58	35	22	20	270
M 12	64	43	23	22	310
M 12	69	43	24	25	360

鋼絲繩夾(直型) Wire Rope Clamps - Straight



d(mm)	A(mm)	B(mm)	C(mm)	E(mm)	重量 Weight (kg/%)
2	15	11	5	7	5
3	17	14	6	9	6
4	20	17	7	11	11
5	25	19	8.5	13	15
6	30	24	10	16	28
8	38	31	12.7	22	50
10	48	39	14	27	75

鋼絲繩夾(雙直型) Wire Rope Clamps - Double Straight



d(mm)	A(mm)	B(mm)	C(mm)	E(mm)	l(mm)	重量 Weight (kg/%)
2	30	12	5	7.5	15	10
3	36	14	6.5	10	17	12
4	40	18	7.5	12	19	22
5	50	20	8.5	14	25	30
6	60	24	10	17	30	55
8	72	30	14	22	38	100
10	90	35	16	25	48	150

鋼絲繩夾 Wire Rope Clamps



d(mm)	D(mm)	D ₁ (mm)	L(mm)	L ₂ (mm)	重量 Weight (kg/%)
3	17	10	19	8	39
4	20	12	21	8	40
5	20	12	23	10	41
6	20	12	25	10	42

化工行業普通級無縫鋼管 Common Grade Seamless Pipes and Tubes for Chemical Industry

奧氏體不銹鋼 Austenitic Stainless Steel

等級 Grade	組成部分 Component	適用標準 Applicable Standard			特性與應用示例 Characteristics and Example of an application
		ASTM/ASME 標準示例 Example of a Standard	EN, etc	JIS 標準示例 Example of a Standard	
303	18Cr-8Ni-S	S30300	1.4305	SUS303	易切削鋼 Free cutting steel
304	18Cr-8Ni	S30400	1.4301	SUS304	基本鋼種：在許多領域應用廣泛的通用鋼 Basic steel grade: General-purpose steel for numerous applications in many fields
304H	18Cr-8Ni-High C	S30409	1.4948	SUS304H	
304L	18Cr-8Ni-Low C	S30403	1.4307	SUS304L	高強度 High strength
304N	18Cr-8Ni-N	S30451(ASTM A213 TP304N)	1.4315	(SUS304N1)	
304LN	18Cr-8Ni-Low C-N	S30453(ASTM A213 TP304LN)	1.4311	(SUS304LN)	抗晶間腐蝕性 Intergranular corrosion resistance
309H	22Cr-12Ni	S30909	1.4829	SUS309	抗氧化性：• 化工廠管道 • 輻射管 • 熱電偶保護管 Oxidation resistance: • Chemical plant pipes and tubes • Radiant tubes • Thermocouple protection tubes
309S	22Cr-12Ni	S30908		SUS309S	
310H	25Cr-20Ni	S31009		SUS310	
310S	25Cr-20Ni	S31008		SUS310S	
312L	20Cr-18Ni-6Mo-0.2N	S31254	1.4547	SUS312L	耐海水性：• 海水淡化裝置管道 Seawater resistance: • Seawater desalination plant pipes
316	18Cr-12Ni-2Mo	S31600	1.4401	SUS316	耐腐蝕性：• LNG工廠管道 • 鍋爐、核電和化學工業管道 Corrosion resistance: • LNG plant pipes • Boilers, nuclear power and chemical industry pipes and tubes
316H	18Cr-12Ni-2Mo-High C	S31609	1.4918	SUS316H	
316L	18Cr-12Ni-2Mo-Low C	S31603	1.4404	SUS316L	
316Ti	18Cr-12Ni-Mo-Ti	S31635 (ASTM A213 TP316Ti)	1.4571 1.4573	SUS316Ti (JIS G3163)	抗晶間腐蝕性 Intergranular corrosion resistance
317	18Cr-12Ni-3Mo	S31700	1.4438	SUS317	耐點蝕性：• 化學品罐車管道 Pitting corrosion resistance: • Chemical tanker pipes
317L	18Cr-12Ni-3Mo-Low C	S31703		SUS317L	
321	18Cr-9Ni-Ti	S32100	1.4541	SUS321	抗晶間腐蝕性：• 化工廠管道 Intergranular corrosion resistance: • Chemical plant pipes
321H	18Cr-9Ni-Ti-High C	S32109	1.4940	SUS321H	高溫強度：• 鍋爐加熱器管和再熱器管 High-temperature strength: • Boiler heater tubes and reheater tubes
347	18Cr-9Ni-Nb	S34700	1.4550	SUS347	抗晶間腐蝕性：• 化工廠管道 Intergranular corrosion resistance: • Chemical plant pipes
347H	18Cr-9Ni-Nb-High C	S34709	1.4942	SUS347H	高溫強度：• 鍋爐加熱器管和再熱器管 High-temperature strength: • Boiler heater tubes and reheater tubes
310MoLN	25Cr-22Ni-2Mo-N	S31050(ASTM A213)	1.4466		抗晶間腐蝕性：• 尿素反應器管 Intergranular corrosion resistance: • Urea reactor tubes

化工行業普通級無縫鋼管 Common Grade Seamless Pipes and Tubes for Chemical Industry

奧氏體不銹鋼 Austenitic Stainless Steel

等級 Grade	化學成分 (質量百分比) Chemical Composition(mass%)										常溫拉伸性能 Room-temperature tensile property		
	C	Si	Mn	P	S	Ni	Cr	Mo	N	Others	TS,min.	YS,min.	EL,min.
											MPa	MPa	%
303	0.15max.	1.00max.	2.00max.	0.20max.	0.15min.	8.0~10.0	17.0~19.0	0.60max	—	—	515	210	35
304	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	8.0~11.0	18.0~20.0	—	—	—	515	205	35
304H	0.04~0.10	1.00max.	2.00max.	0.045max.	0.03max.	8.0~10.0	18.0~20.0	—	—	—	515	205	35
304L	0.035max.	1.00max.	2.00max.	0.045max.	0.03max.	8.0~12.0	18.0~20.0	—	—	—	485	170	35
304N	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	8.0~11.0	18.0~20.0	—	0.10~0.16	—	550	240	35
304LN	0.035max.	1.00max.	2.00max.	0.045max.	0.03max.	8.0~11.0	18.0~20.0	—	0.10~0.16	—	515	205	35
309H	0.04~0.10	1.00max.	2.00max.	0.045max.	0.03max.	12.0~15.0	22.0~24.0	—	—	—	515	205	35
309S	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	12.0~15.0	22.0~24.0	—	—	—	515	205	35
310H	0.04~0.10	1.00max.	2.00max.	0.045max.	0.03max.	19.0~22.0	24.0~26.0	—	—	—	515	205	35
310S	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	19.0~22.0	24.0~26.0	—	—	—	515	205	35
312L	0.020max.	0.80max.	1.00max.	0.030max.	0.01max.	17.5~18.5	19.5~20.5	6.0~6.5	0.18~0.22	Cu : 0.50~1.00	655*1	310	35
316	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	10.0~14.0	16.0~18.0	2.0~3.0	—	—	515	205	35
316H	0.04~0.10	1.00max.	2.00max.	0.045max.	0.03max.	11.0~14.0	16.0~18.0	2.0~3.0	—	—	515	205	35
316L	0.035max.	1.00max.	2.00max.	0.045max.	0.03max.	10.0~14.0	16.0~18.0	2.0~3.0	—	—	485	170	35
316Ti	0.08max.	0.75max.	2.00max.	0.045max.	0.03max.	10.0~14.0	16.0~18.0	2.0~3.0	0.10max.	Ti : 5(C%+N%)~0.70	515	205	35
317	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	11.0~15.0	18.0~20.0	3.0~4.0	—	—	515	205	34
317L	0.035max.	1.00max.	2.00max.	0.045max.	0.03max.	11.0~15.0	18.0~20.0	3.0~4.0	—	—	515	205	35
321	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	9.0~12.0	17.0~19.0	—	—	Ti : 5(C%+N%)~0.70	515	205	35
321H	0.04~0.10	1.00max.	2.00max.	0.045max.	0.03max.	9.0~12.0	17.0~19.0	—	—	Ti : 4(C+N)~0.70	515	205	35
347	0.08max.	1.00max.	2.00max.	0.045max.	0.03max.	9.0~13.0	17.0~20.0	—	—	Nb : 10 x C%~1.10	515	205	35
347H	0.04~0.10	1.00max.	2.00max.	0.045max.	0.03max.	9.0~13.0	17.0~19.0	—	—	Nb : 8 x C%~1.00	515	205	35
310MoLN	0.025max.	0.40max.	2.00max.	0.020max.	0.03max.	21.0~23.0	24.0~26.0	2.0~3.0	0.10~0.16		540*2	255*2	25*2

*1: t>5mm *2: t>6mm

化工行業普通級無縫鋼管 Common Grade Seamless Pipes and Tubes for Chemical Industry

雙相不銹鋼/馬氏體不銹鋼/鐵素體不銹鋼 Duplex Stainless Steel / Martensitic Stainless Steel / Ferritic Stainless Steel

等級 Grade	組成部分 Component	適用標準 Applicable Standard			特性與應用示例 Characteristics and Example of an application
		ASTM/ASME 標準示例 Example of a Standard	EN, etc	JIS 標準示例 Example of a Standard	
雙相不銹鋼 Duplex Stainless Steel					
329J3L	22Cr-5Ni-3Mo-0.15N	S31803(ASTM A789)	1.4462 NORSOK M-630/M-650	SUS329J3L	高強度、高耐腐蝕性： • 各種換熱管 High strenth, high corrosion resistance: • Various heat exchanger tubes
329J4L	25Cr-7Ni-3Mo-0.2N	S31260(ASTM A789)		SUS329J4L	
S31500	18.5Cr-5Ni-2.7Mo	S31500(ASTM A789)			
S32205	22.5Cr-6Ni-3Mo-0.2N	S32205(ASTM A789)	1.4462 NORSOK M-630/M-650		高強度、高耐腐蝕性： • 海水淡化設備管道 High strenth, high corrosion resistance: • Seawater desalination plant pipes
S32750	25Cr-7Ni-4Mo-0.3N	S32750(ASTM A789)	1.4410 NORSOK M-630/M-650		
馬氏體不銹鋼 Martensitic Stainless Steel					
405	13Cr-Al	S40500(ASTM A268 TP405)	1.4002	SUS405(JIS G3463)	低熱膨脹： • 汽車排氣系統管道 Low thermal expansion: • Automotive exhaust system pipes
410	13Cr	S41000(ASTM A268 TP410)	1.4006	SUS410(JIS G3463)	
鐵素體不銹鋼 Martensitic Stainless Steel					
430	18Cr	S43000(ASTM A268 TP430)	1.4016	SUS430(JIS G3463)	耐氯化物腐蝕性和抗應力腐蝕龜裂性： • 熱水器管道 Chloride corrosion resistance and stress corrosion crak resistance: • Water heater pipes
444	19Cr-2Mo-Ti/Nb	S44400(ASTM A213 TP444)	1.4521	SUS444(JIS G3463)	
446	25Cr-N	S44600(ASTM A268 TP446-1)			

等級 Grade	化學成分（質量百分比） Chemical Composition(mass%)										常溫拉伸性能 Room-temperature tensile property		
	C	Si	Mn	P	S	Ni	Cr	Mo	N	Others	TS,min.	YS,min.	EL,min.
											MPa	MPa	%
雙相不銹鋼 Duplex Stainless Steel													
329J3L	0.03max.	1.00max.	2.00max.	0.03max.	0.02max.	4.5~6.5	21.0~23.0	2.5~3.5	0.08~0.20	—	620	450	25
329J4L	0.03max.	0.75max.	1.00max.	0.03max.	0.03max.	5.5~7.5	24.0~26.0	2.5~3.5	0.10~0.30	Cu：0.20~0.80 W：0.10~0.50	690	450	25
S31500	0.03max.	1.40~2.00	1.2~2.00	0.03max.	0.03max.	4.3~5.2	18.0~19.0	2.5~3.0	0.05~0.1	—	630	440	30
S32205	0.03max.	1.00max.	2.00max.	0.03max.	0.02max.	4.5~6.5	22.0~23.0	3.0~3.5	0.14~0.20	—	655	465	25
S32750	0.03max.	0.80max.	1.20max.	0.035max.	0.02max.	6.0~8.0	24.0~26.0	3.0~5.0	0.24~0.32	Cu：0.50max. Cr%+3.3 x Mo% +16 x N% ≥41	800	550	15
馬氏體不銹鋼 Martensitic Stainless Steel													
405	0.08max.	1.00max.	1.00max.	0.04max.	0.03max.	0.50max.	11.5~14.5	—	—	Al：0.10~0.30	415	205	20
410	0.15max.	1.00max.	1.00max.	0.04max.	0.03max.	—	11.5~13.5	—	—	—	415	205	20
鐵素體不銹鋼 Martensitic Stainless Steel													
430	0.12max.	1.00max.	1.00max.	0.04max.	0.03max.	—	16.0~18.0	—	—	—	415	240	20
444	0.03max.	1.00max.	1.00max.	0.04max.	0.03max.	—	17.5~19.5	1.75~2.50	0.035max.	Ti+Nb：0.20+ 4(C%+N%)~0.80 Ni+Cu：1.00max.	415	275	20
446	0.2max.	1.00max.	1.50max.	0.04max.	0.03max.	0.75max.	23.0~27.0	—	0.25max.		485	275	18

化工行業普通級無縫鋼管 Common Grade Seamless Pipes and Tubes for Chemical Industry

高鎳合金/鎳基合金 High Ni Alloy / Ni-based Alloy

等級 Grade	組成部分 Component	適用標準 Applicable Standard			特性與應用示例 Characteristics and Example of an application
		ASTM/ASME 標準示例 Example of a Standard	EN, etc	JIS 標準示例 Example of a Standard	
高鎳合金 High Ni Alloy					
800	20Cr-30Ni-Ti	N08800 (ASTM B163)	1.4558	NCF800 (JIS G4904)	高耐腐蝕性 High corrosion resistance
800H	20Cr-30Ni-Ti-High C	N08810 (ASTM B163)	1.4876	NCF800H (JIS G4904)	高強度、高耐腐蝕性： • 化工廠加熱管、再熱器管 High strenth, high corrosion resistance: • Chemical plant heater tubes and reheater tubes
904L	20Cr-25Ni-4.5Mo-Cu	N08904 (ASTM A312)	1.4539	SUS890L (JIS G3463)	高耐腐蝕性： • 各種換熱管 High corrosion resistance: • Various heat exchanger tubes
28	27Cr-31Ni-3.5Mo-Cu	N08028 (ASTM B668)	1.4563		
254SMO	20Cr-18Ni-6Mo-Cu-N	S31254 (ASTM A312)	1.4547		高耐點蝕性： • 海水換熱器管 High pitting corrosion resistance: • Seawater heat exchanger tubes
20	20Cr-35Ni-2Mo-3Cu-Nb	N08020 (ASTM B729)	2.4660		高耐腐蝕性 High corrosion resistance
825	20Cr-42Ni-3Mo-2Cu-Ti	N08825 (ASTM B163)	2.4858	NCF825 (JIS G4904)	高耐腐蝕性和抗應力腐蝕龜裂性： • 石油精煉的熱交換器管 High corrosion resistance and stress corrosion crack resistance: • Heat exchanger tubes for petroleum refining
鎳基合金 Ni-based Alloy					
600	15Cr-8Fe-Ni base	N06600 (ASTM B163)	2.4816	NCF600 (JIS G4904)	抗氧化性： • 熱電偶保護管 Oxidation resistance: • Thermocouple protection tubes
601	23Cr-1.4Al-Ni base	N06601 (ASTM B163)	2.4581		抗氧化和抗滲碳 Oxidation resistance and carburization resistance
625	22Cr-9Mo-Ni base	N06625 (ASTM B444)	2.4856	NCF625 (JIS G4904)	高耐腐蝕性和抗應力腐蝕龜裂性： • 海水換熱器管 High corrosion resistance and stress corrosion crack resistance: • Seawater heat exchanger tubes
690	28Cr-9Fe-Ni base	N06690 (ASTM B163)	2.4642	NCF690 (JIS G4904)	高耐腐蝕性 High corrosion resistance
C22	21Cr-13Mo-3W-Ni base	N06022 (ASTM B622)	2.4602	NW6022 (JIS H4552)	高耐酸性： • 化工廠的換熱器管 High acid resistance: • Heat exchanger tubes for chemical plants
276	15.5Cr-16Mo-5Fe-Ni base	N10276 (ASTM B622)	2.4819	NW0276 (JIS H4552)	
200	Ni(退火 Annealed)	N02200 (ASTM B161)	2.4066	NW2200 (JIS H4552)	高耐腐蝕性： • 燒碱和氯化氫裝置的換熱器管 High corrosion resistance: • Heat exchanger tubes for caustic soda and hydrogen chloride plants
201	Ni-Low C(退火 Annealed)	N02201 (ASTM B161)	2.4068	NW2201 (JIS H4552)	

化工行業普通級無縫鋼管 Common Grade Seamless Pipes and Tubes for Chemical Industry

高鎳合金/鎳基合金 High Ni Alloy / Ni-based Alloy

等級 Grade	化學成分（質量百分比） Chemical Composition(mass%)										常溫拉伸性能 Room-temperature tensile property		
	C	Si	Mn	P	S	Ni	Cr	Mo	N	Others	TS,min.	YS,min.	EL,min.
											MPa	MPa	%
高鎳合金 High Ni Alloy													
800	0.10max.	1.00max.	1.50max.	0.03max.	0.015max.	30.0~35.0	19.0~23.0	—	—	Cu : 0.75max. Al : 0.15~0.60 Ti : 0.15~0.60 Fe : 39.5min.	517	207	30
800H	0.05~0.10	1.00max.	1.50max.	0.03max.	0.015max.	30.0~35.0	19.0~23.0	—	—	Cu : 0.75max. Al : 0.15~0.60 Ti : 0.15~0.60 Fe : 39.5min.	448	172	30
904L	0.02max.	1.00max.	2.00max.	0.04max.	0.03max.	23.0~28.0	19.0~23.0	4.0~5.0	0.10max.	Cu : 1.00~2.00	490	215	35
28	0.03max.	1.00max.	2.50max.	0.03max.	0.03max.	30.0~34.0	26.0~28.0	3.0~4.0	—	Cu : 0.6~1.4	500	214	40
254SMO	0.02max.	0.80max.	1.00max.	0.03max.	0.01max.	17.5~18.5	19.5~20.0	6.0~6.5	0.18~0.25	Cu : 0.50~1.00	655*3	310	35
20	0.07max.	1.00max.	2.00max.	0.045max.	0.035max.	32.0~38.0	19.0~21.0	2.0~3.0	—	Cu : 3.00~4.00 Nb+Ta : 8 x C~1.00	550	240	30
825	0.05max.	0.50max.	1.00max.	0.03max.	0.03max.	38.0~46.0	19.5~23.5	2.5~3.5	—	Cu : 1.50~3.00 Al : 0.20max. Ti : 0.60~1.20 Fe : 22.0min.	586	241	30
鎳基合金 Ni-based Alloy													
600	0.15max.	0.50max.	1.00max.	0.03max.	0.015max.	72.0min.	14.0~17.0	—	—	Fe : 6.00~10.00 Cu : 0.50max.	552	241	30
601	0.10max.	0.50max.	1.00max.	—	0.015max.	58.0~63.0	21.0~25.0	—	—	Al : 1.00~1.70 Cu : 1.0max.	552	207	30
625	0.10max.	0.50max.	0.50max.	0.015max.	0.015max.	58.0min.	20.0~23.0	8.0~10.0	—	Fe : 5.00max. Co : 1.00max. Al : 0.40max. Ti : 0.40max. Nb+Ta : 3.15~4.15	690 Solution	276 Solution	30
690	0.05max.	0.50max.	0.50max.	0.03max.	0.015max.	58.0min.	27.0~31.0	—	—	Fe : 7.00~11.00 Cu : 0.50max.	586	241	30
C22	0.015max.	0.08max.	0.50max.	0.02max.	0.02max.	Remnant	20.0~22.5	12.5~14.5	—	Fe : 2.00~6.00 Co : 2.50max. W : 2.50~3.50 V : 0.35max.	690	310	45
276	0.01max.	0.08max.	1.00max.	0.04max.	0.03max.	Remnant	14.5~16.5	15.0~17.0	—	Fe : 4.00~7.00 Co : 2.50max. W : 3.00~4.50 V : 0.35max.	690	283	40
200	0.15max.	0.35max.	0.35max.	—	0.01max.	99.0min.	—	—	—	Fe : 0.40max. Cu : 0.25max.	380*4	105*4	35*4
201	0.02max.	0.35max.	0.35max.	—	0.01max.	99.0min.	—	—	—	Fe : 0.40max. Cu : 0.25max.	345*4	80*4	35*4

*3: t>15mm *2: t≤127mm

化工行業所用開發的無縫鋼管 Developed Seamless Steel Pipes and Tubes for Chemical Industry

奧氏體不銹鋼/雙相不銹鋼 Austenitic Stainless Steel / Duplex Stainless Steel

等級 Grade	組成部分 Component	適用標準 Applicable Standard			特性與應用示例 Characteristics and Example of an application
		ASTM/ASME 標準示例 Example of a Standard	EN, etc	JIS 標準示例 Example of a Standard	
奧氏體不銹鋼 Austenitic Stainless Steel					
YUS™270	20Cr-18Ni-6Mo-0.7Cu-0.2N-LC	S31254(ASTM A312)	1.4547	JIS G3463 SUS312LTB	高耐腐蝕性（耐點蝕性、耐海水性和耐酸性）： • 海水淡化工廠的換熱器管 • 各種化工廠的海水換熱器管 • 處理高鹽度的食品廠管道 High corrosion resistance(pitting corrosion resistance, seawater resistance and acid resistance): • Heat exchanger pipes and tubes for seawater desalination plants • Seawater heat exchanger pipes and tubes for various chemical plants • Food plant pipes handling high salinity
347AP	18Cr-10Ni-0.3Nb-LC	S34751(ASTM A312) ASME CC2196			聚硫氰酸應力腐蝕抗裂性和焊接抗裂性： • 煉油廠爐管 Polythionic acid stress corrosion crack resistance and weld crack resistance: • Petroleum refining plant furnace tubes
NEXAGE™ 317CU	18Cr-16Ni-3.5Mo-4Cu	S31730(ASTM A312)			耐硫酸和鹽酸露點腐蝕（與鎳基合金相當）： • 硫燃料鍋爐的廢氣管和換熱器管 Sulfuric and hydrochloric acid dew point corrosion resistance (comparable to Ni-based alloy): • Exhaust gas pipes and heat exchanger tubes for sulfur fuel boilers
NEXAGE™ 317AP	17Cr-14Ni-3Mo-0.3Nb-N				聚硫氰酸應力腐蝕抗裂性、焊接抗裂性、抗環烷酸腐蝕： • 煉油廠爐管 Polythionic acid stress corrosion crack resistance, weld crack resistance and naphthenic acid corrosion resistance: • Petroleum refining plant furnace tubes
HYDREXEL™	22Cr-13Ni-5Mn-2Mo-0.3N	ASME TPXM-19			抗氫脆，高強度： • 氫氣站高壓氣態氫供應管 Hydrogen embrittlement resistance, high strength: • High pressure gaseous hydrogen supply tubes for hydrogen stations
雙相不銹鋼 Duplex Stainless Steel					
YUS™2120 YUS™DX1 DP11A	21Cr-2Ni-3Mn-Cu-N 22Cr-5Ni-3Mo-0.13Cu-LC 24Cr-4Ni-Mo-Cu-N	S31803(ASTM A789)	1.4462	JIS G3459 SUS821L1TP JIS G3463 SUS329J3LTB	高耐腐蝕性（應力腐蝕裂紋、一般腐蝕和縫隙腐蝕）： • 各種化工廠的換熱器管 High corrosion resistance(stress corrosion crack, general corrosion and crevice corrosion resistance): • Heat exchanger pipes and tubes for various chemical plants
DP12	25Cr-7Ni-2.7Mo-W-N	S31260(ASTM A789)		JIS G3463 SUS329J4LTB	高耐腐蝕性（耐尿素腐蝕和應力腐蝕開裂）： • 尿素反應器管 High corrosion resistance(urea corrosion and stress corrosion crack resistance): • Urea reactor tubes
DP3 DP3N	25Cr-7Ni-3.3Mo-N-W	S31260(ASTM A789)		JIS G3463 SUS329J4LTB	高耐腐蝕性（耐點蝕性、耐海水和縫隙腐蝕）： • 各種化工廠的海水換熱器管 High corrosion resistance(pitting corrosion resistance, seawater and crevice corrosion resistance): • Seawater heat exchanger tubes and tubes for various chemical plants
DP3W	25Cr-7Ni-3.2Mo-2W-N	S39274(ASTM A789) ASME CC2427	NORSOK M-630/M-650		高耐腐蝕性（耐點蝕性、耐海水和縫隙腐蝕）： • 臍帶管和海水換熱器管 High corrosion resistance(pitting corrosion resistance, seawater and crevice corrosion resistance): • Umbilical tubes and seawater heat exchanger tubes
DP28W™	27.5Cr-7.7Ni-2.2W-Mo-N	S32808(ASTM A789) ASME CC2496			高耐腐蝕性（耐尿素腐蝕和應力腐蝕開裂）： • 尿素反應器管 High corrosion resistance(urea corrosion and stress corrosion crack resistance): • Urea reactor tubes

化工行業所用開發的無縫鋼管 Developed Seamless Steel Pipes and Tubes for Chemical Industry

奧氏體不銹鋼/雙相不銹鋼 Austenitic Stainless Steel / Duplex Stainless Steel

等級 Grade	化學成分（質量百分比） Chemical Composition(mass%)										常溫拉伸性能 Room-temperature tensile property		
	C	Si	Mn	P	S	Ni	Cr	Mo	N	Others	TS,min.	0.2%PS,min.	EL,min.
											MPa	MPa	%
奧氏體不銹鋼 Austenitic Stainless Steel													
YUS™270	0.02max.	0.80max.	1.00max.	0.03max.	0.015max.	17.50~19.50	19.00~21.00	6.00~7.00	0.16~0.25	Cu：0.50~1.00	650	300	35
347AP	0.005~0.02	1.00max.	2.00max.	0.045max.	0.03max.	9.0~13.0	17.00~20.00	—	0.06~0.10	Nb：0.20~0.50 Nb≥15C	515	205	35
NEXAGE™ 317CU	0.03max.	1.00max.	2.00max.	0.04max.	0.01max.	15.10~16.50	17.00~19.00	3.10~4.00	0.045max.	Cu：4.00~5.00	480	175	35
NEXAGE™ 317AP	0.02max.	1.00max.	2.00max.	0.045max.	0.03max.	11.00~15.00	16.50~20.00	3.00~4.50	0.06~0.15	Nb：0.20~0.50	515	205	35
HYDREXEL™	0.005~0.06	0.20~1.00	4.30~6.00	0.03max.	0.01max.	12.00~13.50	21.50~23.50	1.50~3.00	0.25~0.40	Nb：0.15~0.30 V：0.15~0.30	800	430	35
雙相不銹鋼 Duplex Stainless Steel													
YUS™2120	0.03max.	0.75max.	2.00~4.00	0.04max.	0.02max.	1.50~2.50	20.50~21.50	0.60max	0.15~0.20	Cu：0.50~1.50	600	400	20
YUS™DX1	0.03max.	1.00max.	2.00max.	0.03max.	0.02max.	4.50~6.50	21.00~23.00	2.50~3.50	0.08~0.20	—	620	450	18
DP11A	0.03max.	1.50max.	2.00max.	0.04max.	0.015max.	3.00~5.00	22.00~25.00	0.15~0.50	0.05~0.25	Cu：1.00~2.00	600	400	25
DP12	0.03max.	1.00max.	1.50max.	0.04max.	0.03max.	5.50~7.50	24.00~26.00	2.50~3.50	0.08~0.30	—	620	450	18
DP3 DP3N	0.03max.	1.00max.	1.50max.	0.04max.	0.03max.	5.50~7.50	24.00~26.00	2.50~3.50	0.08~0.30	—	620	450	18
DP3W	0.03max.	0.80max.	1.00max.	0.03max.	0.02max.	6.00~8.00	24.00~26.00	2.50~3.50	0.24~0.32	Cu：0.20~0.80 W：1.50~2.50	800	550	15
DP28W™	0.03max.	0.50max.	1.10max.	0.03max.	0.01max.	7.00~8.20	27.00~27.90	0.80~1.20	0.30~0.40	W：2.10~2.50	800	550	15

化工行業所用開發的無縫鋼管 Developed Seamless Steel Pipes and Tubes for Chemical Industry

鐵素體不銹鋼/高鎳合金/鎳基合金 Ferritic Stainless Steel / High Ni Alloy / Ni-based Alloy

等級 Grade	組成部分 Component	適用標準 Applicable Standard			特性與應用示例 Characteristics and Example of an application
		ASTM/ASME 標準示例 Example of a Standard	EN, etc	JIS 標準示例 Example of a Standard	
鐵素體不銹鋼 Ferritic Stainless Steel					
YUS™190	19Cr-2Mo-Ti-Nb-ULC-LN	S44400(ASTM A268)	1.4521	JIS G3463 SUS444TB	抗應力腐蝕裂紋（達到SUS304或更高等級的一般耐腐蝕性）： • 各種化工廠的換熱器管 • 小型熱水/蒸汽鍋爐 Stress corrosion crack resistance(general corrosion resistance at SUS304 or higher): • Heat exchanger pipes and tubes for various chemical plants • Small hot-water/steam boilers
高鎳合金 High Ni Alloy					
HK4M	25Cr-25Ni				抗氧化、抗滲碳、耐高溫強度（700~1100℃）： • 乙烯裝置的裂解管 • 氫冶煉廠的爐管 • 應用實例：HK4M至1050℃，HPM到1100℃ Oxidation resistance, carburization resistance and high-temperature strength(700 to 1100℃) • Cracking tubes for ethylene plants • Furnace pipes for hydrogen refineries • Example of use: HK4M to 1050℃ and HPM to 1100℃
NEXAGE™ HR24	25Cr-38Ni-Mo-Si				
鎳基合金 Ni-based Alloy					
NEXAGE™ 845	22.5Cr-47Ni-3Cu-6Mo-3.5W	N06845(ASTM B423) ASME CC2794			耐點蝕、耐酸堿（硫酸、鹽酸、硝酸、甲酸等）： • 高耐腐蝕性的管道和化學工業用的換熱器管 Pitting corrosion resistance and acid resistance(sulfuric acid, hydrochloric acid, nitric acid, formic acid, etc.): • Highly corrosion-resistant pipes and heat exchanger tubes for chemical industry
NEXAGE™ 696	30Cr-60Ni-2Cu-1.5Si	N06696(ASTM B167) ASME CC2652			抗金屬粉塵腐蝕、抗滲碳、耐高溫強度： • 合成氣廠的加熱爐管 • 直接還原鐵廠的高溫管道 Metal dusting corrosion resistance, carburization resistance and high-temperature strength: • Heating furnace pipes for synthetic gas plants • High-temperature pipes for direct reduction iron plants
NEXAGE™ 201	Ni-Low C-Nb	N02201(ASTM B161)	2.4068		簡單的鎳處理： • 苛性鈉和氯化氫裝置的換熱器管 Easy handing Ni: • Heat exchanger tube for caustic soda and hydrogen chloride plants

化工行業所用開發的無縫鋼管 Developed Seamless Steel Pipes and Tubes for Chemical Industry

鐵素體不銹鋼/高鎳合金/鎳基合金 Ferritic Stainless Steel / High Ni Alloy / Ni-based Alloy

等級 Grade	化學成分（質量百分比） Chemical Composition(mass%)										常溫拉伸性能 Room-temperature tensile property		
	C	Si	Mn	P	S	Ni	Cr	Mo	N	Others	TS,min.	0.2%PS,min.	EL,min.
											MPa	MPa	%
鐵素體不銹鋼 Ferritic Stainless Steel													
YUS™190	0.015max.	0.50max.	0.50max.	0.04max.	0.03max.	—	18.0~20.0	1.75~2.25	0.025max.	(Ti+Nb)≥16(C+N)	410	245	20
高鎳合金 High Ni Alloy													
HK4M	0.20~0.30	0.75max.	1.50max.	0.02max.	0.03max.	24.0~26.0	24.0~26.0	—	—	Ti：0.20~0.60 Al：0.20~0.60 B：0.002~0.007	520	235	25
NEXAGE™ HR24	0.10~0.20	1.40~2.00	1.50max.	0.02max.	0.03max.	37.0~40.0	23.0~26.0	1.00~3.00	—	Ti：0.20~0.60 B：0.01max. Zr：0.05max.	520	206	25
鎳基合金 Ni-based Alloy													
NEXAGE™ 845	0.05max.	0.50max.	0.50max.	—	0.01max.	44.0~55.0	20.0~25.0	5.00~7.00	—	Cu：2.00~4.00 W：2.00~5.00	690	276	30
NEXAGE™ 696	0.15max.	1.00~2.50	1.00max.	—	0.01max.	Remnant	28.0~32.0	1.00~3.00	—	Fe：2.00~6.00 Cu：1.50~3.50 Ti：1.00max.	586	240	30
NEXAGE™ 201	0.02max.	0.30max.	0.30max.	—	0.01max.	Remnant	—	—	—	Fe：0.40max. Cu：0.20max. Nb：Added	345	85	35

歐洲標準 European Standard EN10296-2

机械工程和一般工程用焊接圆钢管技术交货条件 第2部分：不銹鋼

Welded circular steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 2: Stainless steel

厚度 ≤ 30 mm 的奧氏體耐蝕鋼製管的機械性能

Mechanical properties for tubes made from austenitic corrosion resistant steels in thicknesses ≤ 30 mm

鋼牌號名稱 Steel Designation Name	編號 Number	0.2%驗證強度	1%驗證強度	抗拉強度	延伸率 Elongation		耐晶間腐蝕性 Resistance to Intergranular Corrosion
		0.2%Proof Strength	1%Proof Strength	Tensile Strength	l	T	
		min.(MPa)	min.(MPa)	min.(MPa)	min.(%)	min.(%)	
X2CrNi18-9	1.4307	180	215	470	40	35	Yes
X2CrNiN18-10	1.4311	270	305	550	35	30	Yes
X5CrNi18-10	1.4301	195	230	500	40	35	Yes
X2CrNi19-11	1.4306	180	215	460	40	35	Yes
X2CrNiMo17-12-2	1.4404	190	225	490	40	30	Yes
X5CrNiMo17-12-2	1.4401	205	240	510	40	30	Yes
X6CrNiMoTi17-12-2	1.4571	210	245	510	35	30	Yes
X2CrNiMo17-12-3	1.4432	190	225	490	40	30	Yes
X2CrNiMo18-14-3	1.4435	190	225	490	40	35	Yes
X3CrNiMo17-13-3	1.4436	205	240	510	40	30	Yes
X2CrNiMoN17-13-3	1.4429	295	330	580	35	30	Yes

奧氏體耐蝕鋼制管的化學成分（鑄造分析）

Chemical composition (cast analysis) for tubes made from austenitic corrosion resistant steel

鋼牌號名稱 Steel Designation Name	編號 Number	化學成份 Chemical Composition max.(%) by mass											
		C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N	Nb	Ti
X2CrNi18-9	1.4307	0.030	1.00	2.00	0.045	0.015	17.5~19.5	—	8.0~10.5	—	0.11	—	—
X2CrNiN18-10	1.4311	0.030	1.00	2.00	0.045	0.015	17.0~19.5	—	8.5~11.5	—	0.12~0.22	—	—
X5CrNi18-10	1.4301	0.07	1.00	2.00	0.045	0.015	17.0~19.5	—	8.0~10.5	—	0.11	—	—
X2CrNi19-11	1.4306	0.030	1.00	2.00	0.045	0.015	18.0~20.0	—	10.0~12.0	—	0.11	—	—
X2CrNiMo17-12-2	1.4404	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	—	0.11	—	—
X5CrNiMo17-12-2	1.4401	0.07	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	—	0.11	—	—
X6CrNiMoTi17-12-2	1.4571	0.08	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.5~13.5	—	—	—	5xC~0.70
X2CrNiMo17-12-3	1.4432	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	—	0.11	—	—
X2CrNiMo18-14-3	1.4435	0.030	1.00	2.00	0.045	0.015	17.0~19.0	2.50~3.00	12.5~15.0	—	0.11	—	—
X3CrNiMo17-13-3	1.4436	0.05	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	—	0.11	—	—
X2CrNiMoN17-13-3	1.4429	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	11.0~14.0	—	0.12~0.22	—	—

歐洲標準 European Standard EN1008-2

不銹鋼-第2部分：一般用途耐腐蝕鋼板板材和帶材的交貨技術條件
Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

鋼牌號名稱 Steel Designation Name	編號 Number	產品形式 Product form	厚度 Thickness	0.2%驗證強度 0.2%-Proof Strength	1%驗證強度 1%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)		耐晶間腐蝕性 Resistance to Intergranular Corrosion	
			max.(mm)	min.(MPa)	min.(MPa)	MPa	A<3mm	A≥3mm	KV ₂ >10mm		交貨狀態下 in the Delivery Condition	敏化處理狀態下 in the Sensitized Condition
							min.(%)	min.(%)	min.(J)(long.)	min.(J)(tr.)		
X2CrNi18-9	1.4307	C	8	220	250	520~700	45	45	—	—	Yes	Yes
		H	13.5	200	240	520~700			100	60		
		P	75	200	240	500~700			100	60		
X2CrNiN18-10	1.4311	C	8	290	320	550~750	40	40	—	—	Yes	Yes
		H	13.5	270	310				100	60		
		P	75	270	310				100	60		
X5CrNi18-10	1.4301	C	8	230	260	540~750	45	45	—	—	Yes	No
		H	13.5	210	250	520~720			100	60		
		P	75	210	250	520~720			100	60		
X2CrNi19-11	1.4306	C	8	220	250	520~700	45	45	—	—	Yes	Yes
		H	13.5	200	240	520~700			100	60		
		P	75	200	240	500~700			100	60		
X2CrNiMo N17-11-2	1.4406	C	8	300	330	580~780	40	40	—	—	Yes	Yes
		H	13.5	280	320				100	60		
		P	75	280	320				100	60		
X2CrNiMo 17-12-2	1.4404	C	8	240	270	530~680	40	40	—	—	Yes	Yes
		H	13.5	220	260	530~680	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X5CrNiMo 17-12-2	1.4401	C	8	240	270	530~680	40	40	—	—	Yes	No
		H	13.5	220	260	530~680	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X6CrNiMo Ti17-12-2	1.4571	C	8	240	270	540~690	40	40	—	—	Yes	Yes
		H	13.5	220	260	540~690			100	60		
		P	75	220	260	520~670			100	60		
X2CrNiMo 17-12-3	1.4432	C	8	240	270	550~700	40	40	—	—	Yes	Yes
		H	13.5	220	260	550~700	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X2CrNiMo 18-14-3	1.4435	C	8	240	270	550~700	40	40	—	—	Yes	Yes
		H	13.5	220	260	550~700	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		

歐洲標準 European Standard EN1008-2

不銹鋼-第2部分：一般用途耐腐蝕鋼板板材和帶材的交貨技術條件

Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

鋼牌號名稱 Steel Designation Name	編號 Number	產品形式 Product form	厚度 Thickness	0.2%驗證強度 0.2%- Proof Strength	1%驗證強度 1%- Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)		耐晶間腐蝕性 Resistance to Intergranular Corrosion	
							A<3mm	A≥3mm	KV ₂ >10mm		交貨狀態下 in the Delivery Condition	敏化處理狀態下 in the Sensitized Condition
			max.(mm)	min.(MPa)	min.(MPa)	MPa	min.(%)	min.(%)	min.(J)(long.)	min.(J)(tr.)		
X5CrNiN19-9	1.4315	C	8	290	320	500~750	40	40	100	60	Yes	No
		H	13.5	270	310							
		P	75	270	310							
X12CrMnNi N17-7-5	1.4372	C	8	350	380	680~880	45	45	—	—	Yes	No
		H	13.5	330	370		45	45	100	60		
		P	75	330	370		40	40	100	60		
X3CrNiMo 17-13-3	1.4436	C	8	240	270	550~700	40	40	—	—	Yes	No
		H	13.5	220	260	550~700			100	60		
		P	75	220	260	530~730			100	60		
X2CrNiMo N17-13-3	1.4429	C	8	300	330	580~780	35	35	—	—	Yes	Yes
		H	13.5	280	320		35	35	100	60		
		P	75	280	320		40	40	100	60		

C=冷軋帶鋼；H=熱軋帶鋼；P=熱軋板

C=cold rolled strip; H=hot rolled strip; P=hot rolled plate.

鋼牌號名稱 Steel Designation Name	編號 Number	化學成份 Chemical Composition % by mass										
		C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu	Others
X2CrNi18-9	1.4307	0.030	1.00	2.00	0.045	0.015	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNi18-10	1.4311	0.030	1.00	2.00	0.045	0.015	17.5~19.5	—	8.5~11.5	0.12~0.22	—	—
X5CrNi18-10	1.4301	0.07	1.00	2.00	0.045	0.015	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNi19-11	1.4306	0.030	1.00	2.00	0.045	0.015	18.0~20.0	—	10.0~12.0	0.10	—	—
X2CrNiMoN17-11-2	1.4406	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~12.5	0.12~0.22	—	—
X2CrNiMo17-12-2	1.4404	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X5CrNiMo17-12-2	1.4401	0.07	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X6CrNiMoTi17-12-2	1.4571	0.08	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.5~13.5	—	—	Ti:5xC~0.70
X2CrNiMo17-12-3	1.4432	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMo18-14-3	1.4435	0.030	1.00	2.00	0.045	0.015	17.0~19.0	2.50~3.00	12.5~15.0	0.10	—	—
X5CrNi19-9	1.4315	0.06	1.00	2.00	0.045	0.015	18.0~20.0	—	8.0~11.0	0.12~0.22	—	—
X12CrMnNi17-7-5	1.4372	0.15	1.00	5.5~7.5	0.045	0.015	16.0~18.0	—	3.5~5.5	0.05~0.25	—	—
X3CrNiMo17-13-3	1.4436	0.05	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMoN17-13-3	1.4429	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	11.0~14.0	0.12~0.22	—	—

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不銹鋼-第2部分：一般用途耐腐蝕鋼板板材和帶材的交貨技術條件
Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

鋼牌號名稱 Steel Designation Name	編號 Number	熱處理狀態 Heat Treatment Condition	最小0.2%驗證強度 Minimum 0.2%-Proof Strength (MPa)										最小1%驗證強度 Minimum 1%-Proof Strength (MPa)									
			溫度為 at a temperature of (°C)																			
			100	150	200	250	300	350	400	450	500	550	100	150	200	250	300	350	400	450	500	550
X2CrNi18-9	1.4307	+AT	147	132	118	108	100	94	89	85	81	80	181	162	147	137	127	121	116	112	109	108
X2CrNiN18-10	1.4311	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	161	156	152	149	147
X5CrNi18-10	1.4301	+AT	157	142	127	118	110	104	98	95	92	90	191	172	157	145	135	129	125	122	120	120
X2CrNi19-11	1.4306	+AT	147	132	118	108	100	94	89	85	81	80	181	162	147	137	127	121	116	112	109	108
X2CrNiMoN17-11-2	1.4406	+AT	211	185	167	155	145	140	135	131	128	127	246	218	198	183	175	169	164	160	158	157
X2CrNiMo17-12-2	1.4404	+AT	166	152	137	127	118	113	108	103	100	98	199	181	167	157	145	139	135	130	128	127
X5CrNiMo17-12-2	1.4401	+AT	177	162	147	137	127	120	115	112	110	108	211	191	177	167	156	150	144	141	139	137
X6CrNiMoTi17-12-2	1.4571	+AT	185	177	167	157	145	140	135	131	129	127	218	206	196	186	175	169	164	160	158	157
X2CrNiMo17-12-3	1.4432	+AT	166	152	137	127	118	113	108	103	100	98	199	181	167	157	145	139	135	130	128	127
X2CrNiMo18-14-3	1.4435	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X5CrNiN19-9	1.4315	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	161	156	152	149	147
X12CrMnNiN17-7-5	1.4372	+AT	295	260	230	220	205	185	—	—	—	—	325	295	265	250	230	205	—	—	—	—
X3CrNiMo17-13-3	1.4436	+AT	177	162	147	137	127	120	115	112	110	108	211	191	177	167	156	150	144	141	139	137
X2CrNiMoN17-13-3	1.4429	+AT	211	185	167	155	145	140	135	131	129	127	246	218	198	183	175	169	164	160	158	157

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不銹鋼-第3部分：一般用途耐腐蝕鋼半成品、棒材、杆材、线材、型材和光亮产品的交货技术条件

Stainless steels-Part 3:Technical delivery conditions for semifinished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes

固溶退火狀態下結構類型1C，1E，1D，1X，1G和2D的奧氏體鋼在常溫環境溫度時的機械性能以及耐晶間腐蝕性

Mechanical properties at room temperature of solution annealed austenitic steels and resistance to intergranular corrosion in conditions 1C , 1E , 1D , 1X , 1G and 2D

鋼牌號名稱 Steel Designation Name	編號 Number	厚度t或直徑d	硬度	0.2%驗證強度	1%驗證強度	抗拉強度	斷裂延伸率		衝擊能量		耐晶間腐蝕性	
		Thickness t or Diameter d	Hardness	0.2%-Proof Strength	1%-Proof Strength	Tensile Strength	Elongation after Fracture		Impact Energy(ISO-V)		Resistance to Intergranular Corrosion	
		mm	max.	min.(MPa)	min.(MPa)	MPa	min.(%)(long.)	min.(%)(tr.)	min.(J)(long.)	min.(J)(tr.)	交貨狀態下 in the Delivery Condition	敏化處理狀態下 in the Sensitized Condition
X2CrNi18-9	1.4307	≤160 160<t≤250	215	175	210	500~700	45 —	— 35	100 —	— 60	Yes	Yes
X2CrNiN18-10	1.4311	≤160 160<t≤250	230	270	305	550~760	40 —	— 30	100 —	— 60	Yes	Yes
X5CrNi18-10	1.4301	≤160 160<t≤250	215	190	225	500~700	45 —	— 35	100 —	— 60	Yes	No
X2CrNi19-11	1.4306	≤160 160<t≤250	215	180 —	215 —	460~680	45 —	— 35	100 —	— 60	Yes	Yes
X2CrNiMo N17-11-2	1.4406	≤160 160<t≤250	250	280	315	580~800	40 —	— 30	100 —	— 60	Yes	Yes
X2CrNiMo 17-12-2	1.4404	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X5CrNiMo 17-12-2	1.4401	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	No
X6CrNiMo Ti17-12-2	1.4571	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X2CrNiMo 17-12-3	1.4432	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X2CrNiMo 18-14-3	1.4435	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X5CrNiN19-9	1.4315	≤40	215	270	310	550~750	40	—	100	—	Yes	No
X12CrMnNi N17-7-5	1.4372	≤160 160<t≤250	260	230	370	680~880	40 —	— 35	100 —	— 60	Yes	No
X3CrNiMo 17-13-3	1.4436	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	No
X2CrNiMo N17-13-3	1.4429	≤160 160<t≤250	250	280	315	580~800	40 —	— 30	100 —	— 60	Yes	Yes

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不銹鋼-第3部分：一般用途耐腐蝕鋼半成品、棒材、杆材、线材、型材和光亮产品的交货技术条件

Stainless steels-Part 3:Technical delivery conditions for semifinished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes

結構類型2H，2B，2G或2P用固溶退火奧氏體鋼制成的光亮鋼棒在常溫環境溫度時的機械性能

Mechanical properties for bright bars at room temperature of solution annealed austenitic steels in conditions 2H, 2B, 2G or 2P

鋼牌號名稱 Steel Designation Name	編號 Number	厚度t或直徑d Thickness t or Diameter d	0.2%驗證強度 0.2%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)	
		mm	min.(MPa)	MPa	min.%(long.)	min.%(tr.)	min.(J)(long.)	min.(J)(tr.)
X2CrNi18-9	1.4307	≤10	400	600~930	25	—	—	—
		10<t≤16	380	600~930	25	—	—	—
		16<t≤40	175	500~830	30	—	100	—
		40<t≤63	175	500~830	30	—	100	—
		63<t≤160	175	500~700	45	—	100	—
		160<t≤250	175	500~700	—	35	—	60
X5CrNi18-10	1.4301	≤10	400	600~950	25	—	—	—
		10<t≤16	400	600~950	25	—	—	—
		16<t≤40	190	600~850	30	—	100	—
		40<t≤63	190	580~850	30	—	100	—
		63<t≤160	190	500~700	45	—	100	—
		160<t≤250	190	500~700	—	35	—	60
X2CrNi19-11	1.4306	≤10	400	600~930	25	—	—	—
		10<t≤16	380	600~930	25	—	—	—
		16<t≤40	180	460~830	30	—	100	—
		40<t≤63	180	460~830	30	—	100	—
		63<t≤160	180	460~680	45	—	100	—
		160<t≤250	180	460~680	—	35	—	60
X2CrNiMo17-12-2	1.4404	≤10	400	600~930	25	—	—	—
		10<t≤16	380	580~930	25	—	—	—
		16<t≤40	200	500~830	30	—	100	—
		40<t≤63	200	500~830	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60
X5CrNiMo17-12-2	1.4401	≤10	400	600~950	25	—	—	—
		10<t≤16	380	580~950	25	—	—	—
		16<t≤40	200	500~850	30	—	100	—
		40<t≤63	200	500~850	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60

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不銹鋼-第3部分：一般用途耐腐蝕鋼半成品、棒材、杆材、线材、型材和光亮产品的交货技术条件

Stainless steels-Part 3:Technical delivery conditions for semifinished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes

結構類型2H，2B，2G或2P用固溶退火奧氏體鋼制成的光亮鋼棒在常溫環境溫度時的機械性能

Mechanical properties for bright bars at room temperature of solution annealed austenitic steels in conditions 2H, 2B, 2G or 2P

鋼牌號名稱 Steel Designation Name	編號 Number	厚度t或直徑d Thickness t or Diameter d	0.2%驗證強度 0.2%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)	
		mm	min.(MPa)	MPa	min.%(long.)	min.%(tr.)	min.(J)(long.)	min.(J)(tr.)
X6CrNiMoTi17-12-2	1.4571	≤10	400	600~950	25	—	—	—
		10<t≤16	380	580~950	25	—	—	—
		16<t≤40	200	500~850	30	—	100	—
		40<t≤63	200	500~850	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60
X2CrNiMo17-12-3	1.4432	≤10	400	600~930	25	—	—	—
		10<t≤16	380	600~880	25	—	—	—
		16<t≤40	200	500~850	30	—	100	—
		40<t≤63	200	500~850	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60
X2CrNiMo18-14-3	1.4435	≤10	400	600~950	25	—	—	—
		10<t≤16	400	600~950	25	—	—	—
		16<t≤40	235	500~850	30	—	100	—
		40<t≤63	235	500~850	30	—	100	—
		63<t≤160	235	500~700	40	—	100	—
		160<t≤250	235	500~700	—	30	—	60

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不銹鋼-第3部分：一般用途耐腐蝕鋼半成品、棒材、杆材、线材、型材和光亮产品的交货技术条件
Stainless steels-Part 3:Technical delivery conditions for semifinished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes

鋼牌號名稱 Steel Designation Name	編號 Number	化學成份 Chemical Composition										
		% by mass										
		C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu	Others
X2CrNi18-9	1.4307	0.030	1.00	2.00	0.045	0.030	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNiN18-10	1.4311	0.030	1.00	2.00	0.045	0.030	17.5~19.5	—	8.5~11.5	0.12~0.22	—	—
X5CrNi18-10	1.4301	0.07	1.00	2.00	0.045	0.030	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNi19-11	1.4306	0.030	1.00	2.00	0.045	0.030	18.0~20.0	—	10.0~12.0	0.10	—	—
X2CrNiMoN17-11-2	1.4406	0.030	1.00	2.00	0.045	0.030	16.5~18.5	2.00~2.50	10.0~12.5	0.12~0.22	—	—
X2CrNiMo17-12-2	1.4404	0.030	1.00	2.00	0.045	0.030	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X5CrNiMo17-12-2	1.4401	0.07	1.00	2.00	0.045	0.030	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X6CrNiMoTi17-12-2	1.4571	0.08	1.00	2.00	0.045	0.030	16.5~18.5	2.00~2.50	10.5~13.5	—	—	Ti:5xC~0.70
X2CrNiMo17-12-3	1.4432	0.030	1.00	2.00	0.045	0.030	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMo18-14-3	1.4435	0.030	1.00	2.00	0.045	0.030	17.0~19.0	2.50~3.00	12.5~15.0	0.10	—	—
X5CrNiN19-9	1.4315	0.06	1.00	2.00	0.045	0.015	18.0~20.0	—	8.0~11.0	0.12~0.22	—	—
X12CrMnNiN17-7-5	1.4372	0.15	1.00	5.5~7.5	0.045	0.015	16.0~18.0	—	3.5~5.5	0.05~0.25	—	—
X3CrNiMo17-13-3	1.4436	0.05	1.00	2.00	0.045	0.030	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMoN17-13-3	1.4429	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	11.0~14.0	0.12~0.22	—	—

鋼牌號名稱 Steel Designation Name	編號 Number	熱處理狀態 Heat Treatment Condition	最小0.2%驗證強度 Minimum 0.2%-Proof Strength (MPa)										最小1%驗證強度 Minimum 1%-Proof Strength (MPa)									
			溫度為 at a temperature of (°C)																			
			100	150	200	250	300	350	400	450	500	550	100	150	200	250	300	350	400	450	500	550
X2CrNi18-9	1.4307	+AT	145	130	118	108	100	94	89	85	81	80	180	160	145	135	127	121	116	112	109	108
X2CrNiN18-10	1.4311	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	160	156	152	149	147
X5CrNi18-10	1.4301	+AT	155	140	127	118	110	104	98	95	92	90	190	170	155	145	135	129	125	122	120	120
X2CrNi19-11	1.4306	+AT	145	130	118	108	100	94	89	85	81	80	180	160	145	135	127	121	116	112	109	108
X2CrNiMoN17-11-2	1.4406	+AT	215	195	175	165	155	150	145	140	138	136	245	225	205	195	185	180	175	170	168	166
X2CrNiMo17-12-2	1.4404	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X5CrNiMo17-12-2	1.4401	+AT	175	158	145	135	127	120	115	112	110	108	210	190	175	165	155	150	145	141	139	137
X6CrNiMoTi17-12-2	1.4571	+AT	185	175	165	155	145	140	135	131	129	127	215	205	192	183	175	169	164	160	158	157
X2CrNiMo17-12-3	1.4432	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X2CrNiMo18-14-3	1.4435	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X5CrNiN19-9	1.4315	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	161	156	152	149	147
X12CrMnNiN17-7-5	1.4372	+AT	295	260	230	220	205	185	—	—	—	—	325	295	265	250	230	205	—	—	—	—

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不銹鋼-第3部分：一般用途耐腐蝕鋼半成品、棒材、杆材、线材、型材和光亮产品的交货技术条件

Stainless steels-Part 3:Technical delivery conditions for semifinished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes

冷作硬化狀態下鋼棒在常溫環境溫度下的機械性能（2H）

Mechanical properties for bars at room temperature of steels in the cold work hardened (2H) condition

鋼牌號名稱 Steel Designation Name	編號 Number	抗拉強度等級 Tensile Strength level	0.2%驗證強度 0.2%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture
		mm	min.(MPa)	MPa	min.(%)
X2CrNi18-9	1.4307	+C700	350	700~850	20
		+C800	500	800~1000	12
X5CrNi18-10	1.4301	+C700	350	700~850	20
		+C800	500	800~1000	12
X2CrNi19-11	1.4306	+C700	350	700~850	20
		+C800	500	800~1000	12
X2CrNiMo17-12-2	1.4404	+C700	350	700~850	20
		+C800	500	800~1000	12
X5CrNiMo17-12-2	1.4401	+C700	350	700~850	20
		+C800	500	800~1000	12
X6CrNiMoTi17-12-2	1.4571	+C700	350	700~850	20
		+C800	500	800~1000	12

冷作硬化狀態下拉製線材耐腐蝕性的可用性

Availability of corrosion resistant steel wire in the cold work-hardened condition

鋼牌號名稱 Steel Designation Name	編號 Number	下列直徑鋼的典型可用抗拉強度等級（mm） Typically available tensile strength levels for diameters in mm										
		+C500	+C600	+C700	+C800	+C900	+C1000	+C1100	+C1200	+C1400	+C1600	+C1800
X2CrNi18-9	1.4307	—	1~25	<25	<20	<15	<15	<15	<10	<5	—	—
X5CrNi18-10	1.4301	—	1~25	<25	<20	<15	<15	<15	<10	<5	—	—
X2CrNi19-11	1.4306	>20	1~25	<25	<20	<15	<15	<15	<10	<5	—	—
X2CrNiMo17-12-2	1.4404	—	<25	<25	<20	<15	<15	<15	<10	<5	—	—
X5CrNiMo17-12-2	1.4401	>20	<25	<25	<20	<15	<15	<15	<10	<5	—	—
X6CrNiMoTi17-12-2	1.4571	—	<25	<25	<20	<15	<15	<15	<10	<5	—	—
X2CrNiMo17-12-3	1.4432	—	<25	<25	<20	<15	<15	<15	<10	<5	—	—
X2CrNiMo18-14-3	1.4435	—	<25	<25	<20	<15	<15	<15	<10	<5	—	—
X3CrNiMo17-13-3	1.4436	—	<25	<25	<20	<15	<15	<15	<10	<5	—	—

歐洲標準 European Standard EN1008-5

不銹鋼-第5部分：建筑用棒材,杆材,线材,型材和光亮耐腐蚀钢的技术交货条件

Stainless steels-Part 5:Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

固溶退火狀態下結構類型1C, 1E, 1D, 1X, 1G和2D的奧氏體鋼在常溫環境溫度時的機械性能以及耐晶間腐蝕性

Mechanical properties at room temperature of austenitic steels in the solution annealed condition and resistance to intergranular corrosion in conditions

1C, 1E, 1D, 1X, 1G and 2D

鋼牌號名稱 Steel Designation Name	編號 Number	厚度t或直徑d Thickness t or Diameter d	硬度 Hardness	0.2%驗證強度 0.2%-Proof Strength	1%驗證強度 1%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)		耐晶間腐蝕性 Resistance to Intergranular Corrosion	
		mm	max.	min.(MPa)	min.(MPa)	MPa	min.%(long.)	min.%(tr.)	min.(J)(long.)	min.(J)(tr.)	交貨狀態下 in the Delivery Condition	敏化處理狀態下 in the Sensitized Condition
X2CrNi18-9	1.4307	≤160 160<t≤250	215	175	210	500~700	45 —	— 35	100 —	— 60	Yes	Yes
X2CrNiN18-10	1.4311	≤160 160<t≤250	230	270	305	550~760	40 —	— 30	100 —	— 60	Yes	Yes
X5CrNi18-10	1.4301	≤160 160<t≤250	215	190	225	500~700	45 —	— 35	100 —	— 60	Yes	No
X2CrNi19-11	1.4306	≤160 160<t≤250	215	180	215	460~680	45 —	— 35	100 —	— 60	Yes	Yes
X2CrNiMo N17-11-2	1.4406	≤160 160<t≤250	250	280	315	580~800	40 —	— 30	100 —	— 60	Yes	Yes
X2CrNiMo 17-12-2	1.4404	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X5CrNiMo 17-12-2	1.4401	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	No
X6CrNiMo Ti17-12-2	1.4571	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X2CrNiMo 17-12-3	1.4432	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X2CrNiMo 18-14-3	1.4435	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	Yes
X12CrMnNi N17-7-5	1.4372	≤160 160<t≤250	260	230	370	750~950	40 —	— 35	100 —	— 60	Yes	No
X3CrNiMo 17-13-3	1.4436	≤160 160<t≤250	215	200	235	500~700	40 —	— 30	100 —	— 60	Yes	No
X2CrNiMo N17-13-3	1.4429	≤160 160<t≤250	250	280	315	580~800	40 —	— 30	100 —	— 60	Yes	Yes

歐洲標準 European Standard EN1008-5

不銹鋼-第5部分：建筑用棒材,杆材,线材,型材和光亮耐腐蚀钢的技术交货条件

Stainless steels-Part 5:Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

結構類型2H，2B，2G或2P用固溶退火奧氏體鋼制成的光亮鋼棒在常溫環境溫度時的機械性能

Mechanical properties for bright bars at room temperature of solution annealed austenitic steels in conditions 2H, 2B, 2G or 2P

鋼牌號名稱 Steel Designation Name	編號 Number	厚度t或直徑d Thickness t or Diameter d	0.2%驗證強度 0.2%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)	
		mm	min.(MPa)	MPa	min.%(long.)	min.%(tr.)	min.(J)(long.)	min.(J)(tr.)
X2CrNi18-9	1.4307	≤10	400	600~930	25	—	—	—
		10<t≤16	380	600~930	25	—	—	—
		16<t≤40	175	500~830	30	—	100	—
		40<t≤63	175	500~830	30	—	100	—
		63<t≤160	175	500~700	45	—	100	—
		160<t≤250	175	500~700	—	35	—	60
X5CrNi18-10	1.4301	≤10	400	600~950	25	—	—	—
		10<t≤16	400	600~950	25	—	—	—
		16<t≤40	190	600~850	30	—	100	—
		40<t≤63	190	580~850	30	—	100	—
		63<t≤160	190	500~700	45	—	100	—
		160<t≤250	190	500~700	—	35	—	60
X2CrNi19-11	1.4306	≤10	400	600~930	25	—	—	—
		10<t≤16	380	600~930	25	—	—	—
		16<t≤40	180	460~830	30	—	100	—
		40<t≤63	180	460~830	30	—	100	—
		63<t≤160	180	460~680	45	—	100	—
		160<t≤250	180	460~680	—	35	—	60
X2CrNiMo17-12-2	1.4404	≤10	400	600~930	25	—	—	—
		10<t≤16	380	580~930	25	—	—	—
		16<t≤40	200	500~830	30	—	100	—
		40<t≤63	200	500~830	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60
X5CrNiMo17-12-2	1.4401	≤10	400	600~950	25	—	—	—
		10<t≤16	380	580~950	25	—	—	—
		16<t≤40	200	500~850	30	—	100	—
		40<t≤63	200	500~850	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60

歐洲標準 European Standard EN1008-5

不銹鋼-第5部分：建筑用棒材,杆材,线材,型材和光亮耐腐蚀钢的技术交货条件

Stainless steels-Part 5:Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

結構類型2H，2B，2G或2P用固溶退火奧氏體鋼制成的光亮鋼棒在常溫環境溫度時的機械性能

Mechanical properties for bright bars at room temperature of solution annealed austenitic steels in conditions 2H, 2B, 2G or 2P

鋼牌號名稱 Steel Designation Name	編號 Number	厚度t或直徑d Thickness t or Diameter d	0.2%驗證強度 0.2%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)	
		mm	min.(MPa)	MPa	min.%(long.)	min.%(tr.)	min.(J)(long.)	min.(J)(tr.)
X6CrNiMoTi17-12-2	1.4571	≤10	400	600~950	25	—	—	—
		10<t≤16	380	580~950	25	—	—	—
		16<t≤40	200	500~850	30	—	100	—
		40<t≤63	200	500~850	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60
X2CrNiMo17-12-3	1.4432	≤10	400	600~930	25	—	—	—
		10<t≤16	380	600~880	25	—	—	—
		16<t≤40	200	500~850	30	—	100	—
		40<t≤63	200	500~850	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60
X2CrNiMo18-14-3	1.4435	≤10	400	600~950	25	—	—	—
		10<t≤16	400	600~950	25	—	—	—
		16<t≤40	235	500~850	30	—	100	—
		40<t≤63	235	500~850	30	—	100	—
		63<t≤160	235	500~700	40	—	100	—
		160<t≤250	235	500~700	—	30	—	60
X3CrNiMo17-13-3	1.4436	≤10	400	600~950	25	—	—	—
		10<t≤16	400	600~950	25	—	—	—
		16<t≤40	200	500~850	30	—	100	—
		40<t≤63	190	500~850	30	—	100	—
		63<t≤160	200	500~700	40	—	100	—
		160<t≤250	200	500~700	—	30	—	60

歐洲標準 European Standard EN1008-5

不銹鋼-第5部分：建筑用棒材,杆材,线材,型材和光亮耐腐蚀钢的技术交货条件

Stainless steels-Part 5:Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

鋼牌號名稱 Steel Designation Name	編號 Number	化學成份 Chemical Composition % by mass											
		C	Si	Mn	P	S	N	Cr	Cu	Mo	Nb	Ni	Others
X2CrNi18-9	1.4307	0.030max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	17.5~19.5	—	—	—	8.0~10.5	—
X2CrNi18-10	1.4311	0.030max.	1.00max.	2.00max.	0.045	0.030max.	0.12~0.22	17.5~19.5	—	—	—	8.5~11.5	—
X5CrNi18-10	1.4301	0.07max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	17.5~19.5	—	—	—	8.0~10.5	—
X2CrNi19-11	1.4306	0.030max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	18.0~20.0	—	—	—	10.0~12.0	—
X2CrNiMoN17-11-2	1.4406	0.030max.	1.00max.	2.00max.	0.045	0.030max.	0.12~0.22	16.5~18.5	—	2.00~2.50	—	10.0~12.5	—
X2CrNiMo17-12-2	1.4404	0.030max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	16.5~18.5	—	2.00~2.50	—	10.0~13.0	—
X5CrNiMo17-12-2	1.4401	0.07max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	16.5~18.5	—	2.00~2.50	—	10.0~13.0	—
X6CrNiMoTi17-12-2	1.4571	0.08max.	1.00max.	2.00max.	0.045	0.030max.	—	16.5~18.5	—	2.00~2.50	—	10.5~13.5	Ti:5xC~0.70
X2CrNiMo17-12-3	1.4432	0.030max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	16.5~18.5	—	2.50~3.00	—	10.5~13.0	—
X2CrNiMo18-14-3	1.4435	0.030max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	17.0~19.0	—	2.50~3.00	—	12.5~15.0	—
X12CrMnNiN17-7-5	1.4372	0.15max.	1.00max.	5.5~7.5	0.045	0.015max.	0.05~0.25	16.0~18.0	—	—	—	3.5~5.5	—
X3CrNiMo17-13-3	1.4436	0.05max.	1.00max.	2.00max.	0.045	0.030max.	0.10max.	16.5~18.5	—	2.50~3.00	—	10.5~13.0	—
X2CrNiMoN17-13-3	1.4429	0.030max.	1.00max.	2.00max.	0.045	0.015max.	0.12~0.22	16.5~18.5	—	2.50~3.00	—	11.0~14.0	—

鋼牌號名稱 Steel Designation Name	編號 Number	熱處理狀態 Heat Treatment Condition	最小0.2%驗證強度 Minimum 0.2%-Proof Strength (MPa)										最小1%驗證強度 Minimum 1%-Proof Strength (MPa)									
			溫度為 at a temperature of (°C)																			
			100	150	200	250	300	350	400	450	500	550	100	150	200	250	300	350	400	450	500	550
X2CrNi18-9	1.4307	+AT	145	130	118	108	100	94	89	85	81	80	180	160	145	135	127	121	116	112	109	108
X2CrNi18-10	1.4311	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	160	156	152	149	147
X5CrNi18-10	1.4301	+AT	155	140	127	118	110	104	98	95	92	90	190	170	155	145	135	129	125	122	120	120
X2CrNi19-11	1.4306	+AT	145	130	118	108	100	94	89	85	81	80	180	160	145	135	127	121	116	112	109	108
X2CrNiMoN17-11-2	1.4406	+AT	215	195	175	165	155	150	145	140	138	136	245	225	205	195	185	180	175	170	168	166
X2CrNiMoN17-13-3	1.4429	+AT	215	195	175	165	155	150	145	140	138	136	245	225	205	195	185	180	175	170	168	166
X5CrNiMo17-12-2	1.4401	+AT	175	158	145	135	127	120	115	112	110	108	210	190	175	165	155	150	145	141	139	137
X6CrNiMoTi17-12-2	1.4571	+AT	185	175	165	155	145	140	135	131	129	127	215	205	192	183	175	169	164	160	158	157
X2CrNiMo17-12-3	1.4432	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X2CrNiMo18-14-3	1.4435	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X3CrNiMo17-13-3	1.4436	+AT	175	158	145	135	127	120	115	112	110	108	210	190	175	165	155	150	145	141	139	137
X12CrMnNiN17-7-5	1.4372	+AT	295	260	230	220	205	185	—	—	—	—	325	295	265	250	230	205	—	—	—	—

歐洲標準 European Standard EN1008-5

不銹鋼-第5部分：建筑用棒材,杆材,线材,型材和光亮耐腐蚀钢的技术交货条件
Stainless steels-Part 5:Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

冷作硬化狀態下鋼棒在常溫環境溫度下的機械性能（2H）
Mechanical properties for bars at room temperature of steels in the cold work hardened (2H) condition

鋼牌號名稱 Steel Designation Name	編號 Number	抗拉強度等級 Tensile Strength level	0.2%驗證強度 0.2%-Proof Strength	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture
		mm	min.(MPa)	MPa	min.(%)
X2CrNi18-9	1.4307	+C700	350	700~850	20
		+C800	500	800~1000	12
X5CrNi18-10	1.4301	+C700	350	700~850	20
		+C800	500	800~1000	12
X2CrNi19-11	1.4306	+C700	350	700~850	20
		+C800	500	800~1000	12
X2CrNiMo17-12-2	1.4404	+C700	350	700~850	20
		+C800	500	800~1000	12
X5CrNiMo17-12-2	1.4401	+C700	350	700~850	20
		+C800	500	800~1000	12
X6CrNiMoTi17-12-2	1.4571	+C700	350	700~850	20
		+C800	500	800~1000	12

美國標準 American Standard ASTM A269-2008

一般用途的无缝和焊接不锈钢管规范 Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service

化學成分 (%) Chemical Requirements (%)

等級 Grade	TP 201	TP 201LN	TP 304	TP 304L	TP 304LN	TP 316	TP 316L	TP 316LN	TP 317	TP 321	TP 347	TP 348
UNS編號 UNS Designation	S20100	S20153	S30400	S30403	S30453	S31600	S31603	S31653	S31700	S32100	S34700	S34800
C	0.15max.	0.03max.	0.08max.	0.035max.	0.035max.	0.08max.	0.035max.	0.035max.	0.08max.	0.08max.	0.08max.	0.08max.
Mn	5.5~7.5	6.4~7.5	2.00max.	2.00max.	2.00max.	2.00max.	2.00max.	2.00max.	2.00max.	2.00max.	2.00max.	2.00max.
P	0.060max.	0.045max.	0.045max.	0.045max.	0.045max.	0.045max.	0.045max.	0.045max.	0.045max.	0.045max.	0.045max.	0.045max.
S	0.030max.	0.015max.	0.030max.	0.030max.	0.030max.	0.030max.	0.030max.	0.030max.	0.030max.	0.030max.	0.030max.	0.030max.
Si	1.00	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ni	3.5~5.5	4.0~5.0	8.0~11.0	8.0~12.0	8.0~11.0	10.0~14.0	10.0~15.0	10.0~13.0	11.0~15.0	9.0~12.0	9.0~12.0	9.0~12.0
Cr	16.0~18.0	16.0~17.5	18.0~20.0	18.0~20.0	18.0~20.0	16.0~18.0	16.0~18.0	16.0~18.0	18.0~20.0	17.0~19.0	17.0~19.0	17.0~19.0
Mo	—	—	—	—	—	2.00~3.00	2.00~3.00	2.00~3.00	3.0~4.0	—	—	—
Ti	—	—	—	—	—	—	—	—	—	—	—	—
Nb	—	—	—	—	—	—	—	—	—	—	10 x C~1.10	—
Ta	—	—	—	—	—	—	—	—	—	—	—	0.10
N	0.25	0.10~0.25	—	—	0.10~0.16	—	—	0.10~0.16	—	—	—	—
V	—	—	—	—	—	—	—	—	—	—	—	—
Cu	—	1.00	—	—	—	—	—	—	—	—	—	—
Others	—	—	—	—	—	—	—	—	—	—	—	Co 0.20max.

美國標準 American Standard ASTM A312-2017

无缝、焊接和深度冷加工奥氏体不锈钢管的標準規範 Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
化學成分（%） Chemical Requirements (%)

等級 Grade	TP 201	TP 201LN	TP 304	TP 304L	TP 304H	TP 304N	TP 304LN	TP 316
UNS編號 UNS Designation	S20100	S20153	S30400	S30403	S30409	S30451	S30453	S31600
C	0.15	0.03	0.08	0.035	0.04~0.10	0.08	0.035	0.08
Mn	5.5~7.5	6.4~7.5	2.00	2.00	2.00	2.00	2.00	2.00
P	0.060	0.045	0.045	0.045	0.045	0.045	0.045	0.045
S	0.030	0.015	0.030	0.030	0.030	0.030	0.030	0.030
Si	1.00	0.75	1.00	1.00	1.00	1.00	1.00	1.00
Cr	16.0~18.0	16.0~17.5	18.0~20.0	18.0~20.0	18.0~20.0	18.0~20.0	18.0~20.0	16.0~18.0
Ni	3.5~5.5	4.0~5.0	8.0~11.0	8.0~13.0	8.0~11.0	8.0~11.0	8.0~12.0	10.0~14.0
Mo	—	—	—	—	—	—	—	2.00~3.00
Ti	—	—	—	—	—	—	—	—
Nb	—	—	—	—	—	—	—	—
Ta	—	—	—	—	—	—	—	—
N	0.25	0.10~0.25	—	—	—	0.10~0.16	0.10~0.16	—
V	—	—	—	—	—	—	—	—
Cu	—	1.00	—	—	—	—	—	—
Ce	—	—	—	—	—	—	—	—
B	—	—						
Al	—	—						
Others								

美國標準 American Standard ASTM A312-2017

无缝、焊接和深度冷加工奥氏体不锈钢管的標準規範 Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
化學成分 (%) Chemical Requirements (%)

等級 Grade	TP 316L	TP 316H	TP 316Ti	TP 316N	TP 316LN	TP 317	TP 317L
UNS編號 UNS Designation	S31603	S31609	S31635	S31651	S31653	S31700	S31703
C	0.035	0.04~0.10	0.08	0.08max.	0.035	0.08	0.035
Mn	2.00	2.00	2.00	2.00max.	2.00	2.00	2.00
P	0.045	0.045	0.045	0.045max.	0.045	0.045	0.045
S	0.030	0.030	0.030	0.030max.	0.030	0.030	0.030
Si	1.00	1.00	0.75	1.00	1.00	1.00	1.00
Cr	16.0~18.0	16.0~18.0	16.0~18.0	16.0~18.0	16.0~18.0	18.0~20.0	18.0~20.0
Ni	10.0~14.0	10.0~14.0	10.0~14.0	10.0~14.0	10.0~14.0	11.0~15.0	11.0~15.0
Mo	2.0~3.0	2.0~3.0	2.0~3.0	2.0~3.0	2.0~3.0	3.0~4.0	3.0~4.0
Ti	—	—	5 x (C+N)~0.70	—	—	—	—
Nb	—	—	—	—	—	—	—
Ta	—	—	—	—	—	—	—
N	—	—	0.10	0.10~0.16	0.10~0.16	—	—
V	—	—	—	—	—	—	—
Cu	—	—	—	—	—	—	—
Ce	—	—	—	—	—	—	—
B	—	—	—	—	—	—	—
Al	—	—	—	—	—	—	—
Others	—	—	—	—	—	—	—

美國標準 American Standard ASTM A312-2017

无缝、焊接和深度冷加工奥氏体不锈钢管的標準規範 Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

等級 Grade	TP 201	TP 201LN	TP 304	TP 304L	TP 304H	TP 304N	TP 304LN
UNS編號 UNS Designation	S20100	S20153	S30400	S30403	S30409	S30451	S30453
最小抗拉強度 Tensile Strength,min ksi[MPa]	75[515]	95[655]	75[515]	70[485]	75[515]	80[550]	75[515]
最小屈服強度 Yield Strength,min ksi[MPa]	38[260]	45[310]	30[205]	25[170]	30[205]	35[240]	30[205]

等級 Grade	TP 316	TP 316L	TP 316H	TP 316N	TP 316LN	TP 317	TP 317L
UNS編號 UNS Designation	S31600	S31603	S31609	S31651	S31653	S31700	S31703
最小抗拉強度 Tensile Strength,min ksi[MPa]	75[515]	70[485]	75[515]	80[550]	75[515]	75[515]	75[515]
最小屈服強度 Yield Strength,min ksi[MPa]	30[205]	25[170]	30[205]	35[240]	30[205]	30[205]	30[205]

美國標準 American Standard ASTM A270 / A270M-2015

卫生设施用无缝钢和焊接奥氏体不锈钢管的标准规范 Standard Specification For Seamless And Welded Austenitic And Ferritic/Austenitic Stainless Steel Sanitary Tubing
化學成分 (%) Chemical Requirements (%)

等級 Grade	TP 304	TP 304L	TP 316	TP 316L
UNS編號 UNS Designation	S30400	S30403	S31600	S31603
C	0.08max.	0.035max.	0.08max.	0.035max.
Mn	2.00max.	2.00max.	2.00max.	2.00max.
P	0.045max.	0.045max.	0.045max.	0.045max.
S	0.030max.	0.030max.	0.030max.	0.030max.
Si	1.00max.	1.00max.	1.00max.	1.00max.
Ni	8.0~11.0	8.0~12.0	10.0~14.0	10.0~14.0
Cr	18.0~20.0	18.0~20.0	16.0~18.0	16.0~18.0
Mo	—	—	2.0~3.0	2.0~3.0
N	—	—	—	—
Cu	—	—	—	—

拉伸和硬度要求 Tensile and Hardness Requirements

等級 Grade	TP 304	TP 304L	TP 316	TP 316L
UNS編號 UNS Designation	S30400	S30403	S31600	S31603
最小抗拉強度 Tensile Strength,min ksi[MPa]	75[515]	70[485]	75[515]	70[485]
最小屈服強度 Yield Strength,min ksi[MPa]	30[205]	25[170]	30[205]	25[170]
2英吋最小延伸率 Elongation in 2 in. min. %	35	35	35	35
最大洛氏硬度值 Rockwell Hardness Number,max	B90	B90	B90	B90

不銹鋼板材的歐洲標準

European Standards of Stainless Steel Plate

對於冷軋不銹鋼，舊的BS1449標準已經被兩個歐洲標準取代：
 EN10088-2代替了BS1449-第二部分：1983
 EN10059-2包括了耐熱等級
 EN10259和新ISO 9445：冷軋材料的公差

For Cold rolled stainless steel the old BS1449 standard has been replaced by two EN Standards:
 EN10088-2 Replaces BS1449-Part 2: 1983
 EN10059 -2 Covers Heat Resisting Grades
 EN10259 & New ISO 9445: Tolerances for COLD Rolled material

如果需要多重認證，EN10088-2，EN10029或10051的組合將會與合適的ASTM標準一起出現。
 Material certification: Where multi-certification is required, a combination of EN10088-2, EN10029 or 10051 will appear together with the appropriate ASTM Standards.

厚度公差 Thickness Tolerances

歐洲標準 European Standard EN10259

厚度 Thickness (mm)	給定寬度的公差 (+/-mm) Tols (+/-mm) for given width (mm)		
	1000	1250	1500
Under 0.30	0.03	—	—
0.30~0.49	0.04	0.04	—
0.50~0.59	0.045	0.05	—
0.60~0.79	0.05	0.05	—
0.80~0.99	0.055	0.06	0.06
1.2~1.49	0.06	0.07	0.07
1.5~1.99	0.07	0.08	0.08
1.5~1.99	0.08	0.09	0.10
2.0~2.49	0.09	0.10	0.11
2.5~2.99	0.11	0.12	0.12
3.0~3.99	0.13	0.14	0.14

平面度公差 Flatness Tolerances

標稱長度 Nominal Length L(mm)	標稱公差 Nominal Length (mm)
Up to 3000	10
Over 3000	12

長度公差 Length Tolerances

標稱長度 Nominal Length L(mm)	標稱公差 Nominal Length (mm)
Up to 2000	+5/-0
Over 2000	+0.0025XL/-0

寬度公差 Width Tolerances

厚度 Thickness (mm)	給定寬度的所有加公差 All plus tols for given width (mm)	
	1000	1250&1500
Under 1.5	+1.5	+2.0
1.5~2.49	+2.0	+2.5
2.5~3.49	+3.0	+3.0
3.5 and Over	+4.0	+4.0

不銹鋼板材的交貨標準

Delivery Standards of Stainless Steel Plate

英國標準 British Standard BS EN 10088-2/10028-7

BS EN完成面表面處理等級 BS EN Finish	舊英標完成面表面處理等級 Old BS Finish	說明 Description
熱軋 Hot Rolled		
1C	0	熱軋，熱處理，未除銹 Hot rolled, heat treated, not descaled
1E	1	熱軋，熱處理，機械除銹 Hot rolled, heat treated, mechanically descaled
1D	1	熱軋，熱處理，酸洗 Hot rolled, heat treated, mechanically descaled
1U	—	熱軋，未熱處理，未除銹 Hot rolled, not heat treated, not descaled
冷軋 Cold Rolled		
2C	—	冷軋，熱處理，未除銹 Cold rolled, heat treated, not descaled
2E	—	冷軋，熱處理，機械除銹 Cold rolled, heat treated, mechanically descaled
2D	2D	冷軋，熱處理，酸洗 Cold Rolled, heat treated, pickled
2B	2B	冷軋，熱處理，酸洗，去皮 Cold Rolled, heat treated, pickled, skin passed
2R	2A/(BA)	冷軋，光亮退火 Cold Rolled bright annealed
2Q	—	冷軋，淬火和回火，無氧化皮 Cold Rolled, hardened & tempered, scale free

BS EN完成面表面處理等級 BS EN Finish	舊英標完成面表面處理等級 Old BS Finish	特殊表面說明 Special Finishes Description	砂礫度 Typical Grit	粗糙度 Typical Ra
1G or 2G	—	磨砂 Ground Grit	120	2.5~2.0
1J or 2J	3B	單向拉絲 Brushed-Unidirectional	180	1.2~1.0
1J or 2J	4	單向無光澤拋光 Dull Polished-Unidirectional	240	0.6
1K or 2K	5	單向緞面拋光 Satin Polished-Unidirectional	320	0.5max.
1P or 2P	7	光亮拋光-不定向修整，成像清晰度高 Bright Polished -NonDirectional with a high degree of image clarity	600	0.1
1P or 2P	8	鏡面拋光-不定向修整，成像清晰度極高 Mirror Finish -NonDirectional with a very high degree of image clarity	800	0.05
1M or 2M	—	帶圖案 Patterned		
2L	—	帶顏色 Coloured		
2W	—	波紋狀 Corrugated		
1S or 2S	—	表面塗層（金屬塗層：如錫、鉛或鋁） Surface Coated (Metallic coatings such as tin, lead or aluminium)		

備註：
Remarks:

特殊表面1表示熱軋板，2表示冷軋板，比如：磨光熱軋板是1G，磨光冷軋板是2G。

Special finishes indicate hot rolled (1) and cold rolled (2) sheets, e.g.: Ground polished hot rolled sheets = 1G / Ground polished cold rolled sheets = 2G.

英國標準 British Standards

1983年及以後規範的版本引入了分離鉬的範圍：低碳型和標準型均為2.0/2.5%和2.5/3.0%。
由此產生的名稱和成分如下：

The 1983 and subsequent versions of the specifications introduced split molybdenum ranges of:
2.0 / 2.5% and 2.5 / 3.0% for both the low and “standard” carbon types
The resulting designations and compositions were then:

等級 Grade	化學成分 Chemical Composition max.(%) by mass							
	C	Si	Mn	Ni	Cr	Mo	S	P
316S11	0.030	1.0	2.0	11.0~14.0	16.5~18.5	2.0~2.5	0.030	0.045
316S13	0.030	1.0	2.0	11.5~14.5	16.5~18.5	2.5~3.0	0.030	0.045
316S31	0.07	1.0	2.0	10.5~13.5	16.5~18.5	2.0~2.5	0.030	0.045
316S33	0.07	1.0	2.0	11.0~14.0	16.5~18.5	2.5~3.0	0.030	0.045

唯一與舊的316S12對應的是316S13,因此滿足最小鉬含量2.25的需求。
同樣，唯一與舊的316S16對應的是316S33。

The only EQUIVALENT for the old 316S12 is the 316S13, so that the minimum molybdenum of 2.25 is met.
Similarly, the only EQUIVALENT for the old 316S16 is the 316S33.

1995年BSEN 10088:2替代了BS1449，BSEN10088:3替代了BS970:1，引入了新的鋼材編號，比較如下：
In 1995 BSEN 10088:2 replaced BS1449 and BSEN 10088:3 replaced BS970: 1 for these grades.
New steel numbers were introduced, which compare as follows:

舊BS等級 Former “BS” Grades	316S11	316S13	316S31	316S33
現有BSEN編號 Current BSEN Numbers	1.4404	1.4432	1.4401	1.4436

對於大氣暴露使用條件，除海洋極端環境外，以下任一替代方案：
316S11代替316S12或316S31代替316S16
都應提供令人滿意的抗腐蝕性能，這取決於設計和表面處理技術。

For atmospheric exposure service conditions, except in extreme marine environments,the substitution of either:
316S11 for 316S12 or 316S31 for 316S16
should give satisfactory corrosion resistance, depending on design and finishing techniques.

各國不銹鋼牌號對照表
Comparative International Stainless Steel Grades

British	French	German	Italian	Japanese	Swedish	USA
304S21	Z12CN17.08	1.4310	X12CrNi 17 07	SUS301	14 23 31	301
304S31				SUS302	14 23 32	302
304S15 304S16	Z8CN18.09	1.4301	X5CrNi 18 10	SUS301	14 23 33	304
304S11	Z2CN18.10	1.4306	X2CrNi 18 11	SUS304L	14 23 52	304L
305S19	Z8CN18.12		X8CrNi 18 12	SUS305		305
309S24	Z15CN24.13		X16CrNi 23 14	SUS309		309
310S24	Z12CN25.20	1.4845	Z22CrNi 25 20	SUS310S	14 23 61	310
315S16					14 23 40	
316S31 316S33	Z6CND17.11	1.4401 1.4436	X8CrNiMo 17 13	SUS316	14 23 43 14 23 47	316
316S11 316S13	Z2CND17.12	1.4404 1.4435	X2CrNiMo 17 12	SUS316L	14 23 53 14 23 48	316L
317S12	Z2CND19.15	1.4435	X2CrNiMo 18 16	SUS317L	14 23 67	317L
317S16		1.4436		SUS317	14 23 66	317
320S31 320S33	Z8CND17.12	1.4571 1.4573			14 23 50	
321S31	Z6CNT18.12	1.4541	X6CrNiTi 18 11	SUS321	14 23 37	321
347S31	Z6CNNb18.11	1.4558	X6CrNiNb 18 11 X8CrNiNb 18 11	SUS347	14 23 38	347
403S17	Z6C13	1.4000	X6Cr13	SUS403	14 23 01	403
405S17	Z6CA13	1.4002	Z6CrA1 13	SUS405		405
409S19		1.4512				409
430S17	Z8C17	1.4016	X8Cr 17	SUS430	14 23 20	430
434S17	Z8CD17.01	1.4113	X8CrMo 17	SUS434	14 23 25	434
410S21	Z12C13	1.4006 1.4024	X12Cr 13	SUS410	13 23 02	410
410S45	Z30C13		X30Cr 13	SUS420JS	14 23 04	420