



Kao Hsing Chang

Iron & Steel Corp.

總來配管材料送

一、配管用碳鋼鋼管 (Carbon Steel Pipes for Ordinary Piping)

CNS 6445 G3127 中華民國國家標準

CNS 6445 配管用碳鋼鋼管之尺度、重量及尺度許可差

標稱管徑 DESIGNATOR		外徑 O.D. mm	外徑許可差 TOLERANCE ON O.D.		厚度 THICKNESS mm	不包括接頭之單位重量 UNIT WEIGHT EXCLUSIVE COUPLING kg/m
A	B		螺紋鋼管 THREADED	其他鋼管 OTHERS		
15	1/2	21.7	±0.5mm	±0.5mm	2.8	1.31
20	3/4	27.2	±0.5mm	±0.5mm	2.8	1.68
25	1	34.0	±0.5mm	±0.5mm	3.2	2.43
32	1-1/4	42.7	±0.5mm	±0.5mm	3.5	3.38
40	1-1/2	48.6	±0.5mm	±0.5mm	3.5	3.89
50	2	60.5	±0.5mm	±1%	3.8	5.31
65	2-1/2	76.3	±0.7 mm	±1%	4.2	7.47
80	3	89.1	±0.8mm	±1%	4.2	8.79
90	3-1/2	101.6	±0.8mm	±1%	4.2	10.1
100	4	114.3	±0.8mm	±1%	4.5	12.2
125	5	139.8	±0.8mm	±1%	4.5	15.0
150	6	165.2	±0.8mm	±1.6mm	5.0	19.8
200	8	216.3	±1.0mm	±0.8%	5.8	30.1
250	10	267.4	±1.3mm	±0.8%	6.6	42.4
300	12	318.5	±1.5mm	±0.8%	6.9	53.0
350	14	355.6	±0.5%	±0.8%	7.9	67.7
400	16	406.4	±0.5%	±0.8%	7.9	77.6
450	18	457.2	±0.5%	±0.8%	7.9	87.5
500	20	508.0	±0.5%	±0.8%	7.9	97.4

註：

1.適用種類SGP。(EQUIVALENT TO JIS G3452 SGP)

2.水壓試驗(HYDROSTATIC TEST):鋼管經26kg/cm²之水壓試驗，無洩漏或其他缺陷。

(ITS STRENGTH TO WITHSTAND THE PRESSURE 26kg/cm² WITHOUT LEAKAGE AND OTHER DEFECTS.)

3.厚度許可差(TOLERANCE ON THICKNESS):+無規定/-12.5%。(+NOT SPECIFIED/-12.5%)

二、壓力配管用碳鋼鋼管 (Carbon Steel Pipes for Pressure Service)

CNS 4626 3111 中華民國國家標準

壓力配管用碳鋼鋼管之尺度及重量

標稱管徑 DESIGNATOR		外徑 O.D.	標稱厚度號數											
			Sch10		Sch20		Sch30		Sch40		Sch60		Sch80	
			厚度 THICK	單位重量 WEIGHT	厚度 THICK	單位重量 WEIGHT	厚度 THICK	單位重量 WEIGHT	厚度 THICK	單位重量 WEIGHT	厚度 THICK	單位重量 WEIGHT	厚度 THICK	單位重量 WEIGHT
A	B	mm	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m
15	1/2	21.7	—	—	—	—	—	—	2.8	1.31	3.2	1.46	3.7	1.64
20	3/4	27.2	—	—	—	—	—	—	2.9	1.74	3.4	2.00	3.9	2.24
25	1	34.0	—	—	—	—	—	—	3.4	2.57	3.9	2.89	4.5	3.27
32	1-1/4	42.7	—	—	—	—	—	—	3.6	3.47	4.5	4.24	4.9	4.57
40	1-1/2	48.6	—	—	—	—	—	—	3.7	4.10	4.5	4.89	5.1	5.47
50	2	60.5	—	—	3.2	4.52	—	—	3.9	5.44	4.9	6.72	5.5	7.46
65	2-1/2	76.3	—	—	4.5	7.97	—	—	5.2	9.12	6.0	10.4	7.0	12.0
80	3	89.1	—	—	4.5	9.39	—	—	5.5	11.3	6.6	13.4	7.6	15.3
90	3-1/2	101.6	—	—	4.5	10.8	—	—	5.7	13.5	7.0	16.3	8.1	18.7
100	4	114.3	—	—	4.9	13.2	—	—	6.0	16.0	7.1	18.8	8.6	22.4
125	5	139.8	—	—	5.1	16.9	—	—	6.6	21.7	8.1	26.3	9.5	30.5
150	6	165.2	—	—	5.5	21.7	—	—	7.1	27.7	9.3	35.8	11.0	41.8
200	8	216.3	—	—	6.4	33.1	7.0	36.1	8.2	42.1	10.3	52.3	12.7	63.8
250	10	267.4	—	—	6.4	41.2	7.8	49.9	9.3	59.2	12.7	79.8	15.1	93.9
300	12	318.5	—	—	6.4	49.3	8.4	64.2	10.3	78.3	14.3	107	17.4	129
350	14	355.6	6.4	55.1	7.9	67.7	9.5	81.1	11.1	94.3	15.1	127	19.0	158
400	16	406.4	6.4	63.1	7.9	77.6	9.5	93.0	12.7	123	16.7	160	21.4	203
450	18	457.2	6.4	71.1	7.9	87.5	11.1	122	14.3	156	19.0	205	23.8	254
500	20	508.0	6.4	79.2	9.5	117	12.7	155	15.1	184	20.6	248	26.2	311
550	22	558.8	6.4	87.2	9.5	129	12.7	171	15.9	213	—	—	—	—
600	24	609.6	6.4	95.2	9.5	141	14.3	210	—	—	—	—	—	—
650	26	660.4	7.9	127	12.7	203	—	—	—	—	—	—	—	—

註：

1.適用種類：STPG 370/STPG 410。(EQUIVALENT TO JIS G3454 STPG 370/STPG 410)

2.外徑公差(TOLERANCE ON O.D.)。

25A以下(OR UNDER)±0.3mm，32A至(TO)300A±0.8%，350A以上(OR OVER)±0.5%。

3.厚度公差(TOLERANCE ON THICKNESS):

未滿(UNDER)3mm±0.3mm，3mm以上(OR OVER)±10%。

三、電線電纜用鍍鋅鋼製導線管

(Galvanized Steel Conduits for Electrical Wires and Cables)

CNS 2606 C4060 中華民國國家標準

厚鋼電線管尺度、重量及有效螺紋長度

管之稱呼 DESIGNATOR	外徑 O.D. mm	外徑之容許差 TOLERANCE ON O.D. mm	厚度 THICKNESS mm	重量 WEIGHT kg/m	有效螺紋長度 EFFECTIVE LENGTH OF THREADED PART mm	
					最長 MAX.	最短 MIN.
G16	21.0	±0.3	2.3	1.06	19	16
G22	26.5	±0.3	2.3	1.37	22	19
G28	33.3	±0.3	2.5	1.90	25	22
G36	41.9	±0.3	2.5	2.43	28	25
G42	47.8	±0.3	2.5	2.79	28	25
G54	59.6	±0.3	2.8	3.92	32	28
G70	75.2	±0.3	2.8	5.00	36	32
G82	87.9	±0.3	2.8	5.88	40	36
G92	100.7	±0.4	3.5	8.39	42	36
G104	113.4	±0.4	3.5	9.48	45	39

無螺紋電線管之尺度、重量

管之稱呼 DESIGNATOR	外徑 O.D. mm	外徑之容許差 TOLERANCE ON O.D. mm	厚度 THICKNESS mm	重量 WEIGHT kg/m
E19	19.1	±0.15	1.2	0.530
E25	25.4	±0.15	1.2	0.716
E31	31.8	±0.15	1.4	1.05
E39	38.1	±0.15	1.4	1.27
E51	50.8	±0.15	1.4	1.71
E63	63.5	±0.25	1.6	2.44
E75	76.2	±0.25	1.8	3.30

註：

1. JIS C8305 日本工業規格鋼製電線管與本規格近似。(EQUIVALENT TO JIS C8305)

2. 重量許可差(TOLERANCE ON WEIGHT): +不限制/-7%。(+NOT SPECIFIED/-7%)

鋼管ISO證書 ISO CERTIFICATE


財團法人
金屬工業研究發展中心
METAL INDUSTRIES RESEARCH & DEVELOPMENT CENTRE

CERTIFICATE OF CONFORMITY

THIS IS TO CERTIFY THAT 茲證明

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940 屏東縣枋寮鄉東海村永翔路 2 號

HAS BEEN ASSESSED AND CERTIFIED AS MEETING THE REQUIREMENT OF
經評鑑結果符合標準

ISO 45001:2018

FOR THE FOLLOWING SCOPE 認可登錄範圍如下

The related activities of the production of :
Steel pipe.

下列項目之生產的相關活動：
鋼管

Certificate No.: 7175001-00
Effective Date: February 25, 2020
Expiry Date: February 24, 2023
Originally Registered: February 25, 2020/MIRDC

林仁登
Chairman, MIRDC

 
Management System
Certification
MS019
ISO 45001

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HAS BEEN ASSESSED AND CERTIFIED AS MEETING THE REQUIREMENT OF
經評鑑結果符合標準

ISO 14001:2015

FOR THE FOLLOWING SCOPE 認可登錄範圍如下

The related activities of the production of:
Steel pipe.

下列項目之生產的相關活動：
鋼管

Certificate No.: 717E001-01
Effective Date: June 27, 2019
Expiry Date: June 26, 2022
Originally Registered: June 27, 2016/MIRDC

林仁登
Chairman, MIRDC

  
Management System
Certification
MS019
ISO 14001

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HAS BEEN ASSESSED AND CERTIFIED AS MEETING THE REQUIREMENT OF
經評鑑結果符合標準

ISO 9001:2015

FOR THE FOLLOWING SCOPE 認可登錄範圍如下

The production of:
Welded steel pipes for low pressure use (black steel pipes), welded steel pipes for
low pressure use (galvanized steel pipes), ARC welded carbon steel pipes,
rigid steel conduit, carbon steel pipes for ordinary piping, welded steel pipes for
high pressure use, carbon steel pipes for general structures, carbon steel pipes for
pressure service, steel pipe piles, polyethylene coated steel pipes.

下列項目之生產：
低壓有縫鋼管(黑鋼管)、低壓有縫鋼管(白鋼管)、配管用電弧熔接碳鋼管等、
電線用鋼管、配管用碳鋼鋼管、高壓有縫鋼管、一般結構用碳鋼鋼管、
壓力配管用碳鋼鋼管、鋼管樁、聚乙烯被覆鋼管

Certificate No.: 7M8Y042-11
Effective Date: April 16, 2019
Expiry Date: April 15, 2022
Originally Registered: February 4, 1998/BSMI

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