

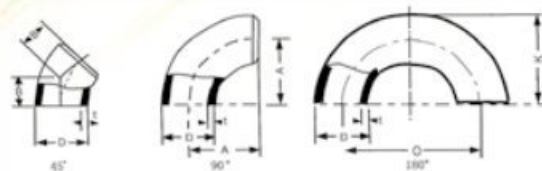
碳鋼焊接管配件 (志成牌)

長半徑彎頭 Elbows Long Radius

ASME/ANSI B16.9

MSS SP-43

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions			Wall Thickness:t 壁厚			Approx.weight 重量												
	Outside Diameter at Bevel:D 外徑		Center to End:A/B Center to Center:o Back to Face:k	sch.NO	t														
	inch 英吋	mm	mm		inch 英吋	Mm	90° kg												
1/2"	0.84	21.3	A=38.1 B=15.7 O=76.2 K=47.8	5S 10S Std/40 40S XS/80 80S 160 XXS	0.065 0.083 0.109 0.147 0.188 0.294	1.65 2.11 2.77 3.73 4.78 7.47	0.05 0.06 0.08 0.10												
			3/4"	1.05	26.7	A=38.1 B=19.1 O=76.2 K=50.8	5S 10S Std/40 40S XS/80 80S 160 XXS	0.065 0.083 0.113 0.154 0.219 0.308	1.65 2.11 2.87 3.91 5.56 7.82	0.06 0.08 0.11 0.14									
						1"	1.315	33.4	A=38.1 短A=25.4 B=22.4 O=76.2 K=55.6	5S 10S Std/40 40S XS/80 80S 160 XXS	0.065 0.109 0.133 0.179 0.250 0.358	1.65 2.77 3.38 4.55 6.35 9.09	0.08 0.13 0.16 0.20 0.25 0.26						
									1-1/4"	1.66	42.2	A=47.8 短A=31.8 B=25.4 O=95.3 K=69.9	5S 10S Std/40 40S XS/80 80S 160 XXS	0.065 0.109 0.140 0.191 0.250 0.385	1.65 2.77 3.56 4.85 6.35 9.70	0.21 0.24 0.26 0.35 0.42 0.64			
												1-1/2"	1.9	48.3	A=57.2 短A=38.1 B=28.4 O=114.3 K=82.6	5S 10S Std/40 40S XS/80 80S 160 XXS	0.065 0.109 0.145 0.200 0.281 0.400	1.65 2.77 3.68 5.08 7.14 10.15	0.17 0.26 0.37 0.50 0.65 0.93
															2"	2.375	60.3	A=76.2 短A=50.8 B=35.1 O=152.4 K=106.4	5S 10S Std/40 40S XS/80 80S 160 XXS
2-1/2"	2.875	73																A=95.3 短A=63.5 B=44.5 O=190.5 K=131.8	5S 10S Std/40 40S XS/80 80S 160 XXS
			3"	3.5	88.9													A=114 短A=76.2 B=50.8 O=228.6 K=158.8	5S 10S Std/40 40S XS/80 80S 160 XXS
						4"	4.5	114.3										A=152.4 短A=101.6 B=63.5 O=304.8 K=209.6	5S 10S Std/40 40S XS/80 80S 120 160 XXS
									5"	5.563	141.3							A=190.5 短A=127.0 B=79.2 O=381.0 K=26.19	5S 10S Std/40 40S XS/80 80S 120 160 XXS

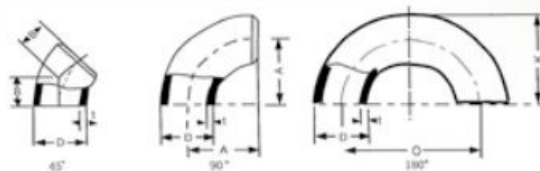
碳鋼焊接管配件 (志成牌)

長半徑彎頭 Elbows Long Radius

ASME/ANSI B16.9

MSS SP-43

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions			Wall Thickness:t 壁厚			Approx.weight 重量
	Outside Diameter at Bevel:D 外徑		Center to End:A/B Center to Center:o Back toFace:k	sch.NO	t		
	inch 英吋	mm	mm		inch 英吋	Mm	90° kg
6"	6.625	168.3	A=228.6 短A=152.4 B=95.3 O=457 K=312.7	5S	0.109	2.77	4.10
				10S	0.134	3.40	4.96
				Std/40 40S	0.280	7.11	10.10
				XS/80 80S	0.432	10.97	15.30
				120	0.562	14.27	19.50
				160	0.719	18.26	24.20
				XXS	0.864	21.95	29.10
8"	8.625	219.1	A=304.8 短A=203.2 B=127.0 O=609.6 K=414.3	5S	0.109	2.77	7.15
				10S	0.148	3.76	9.65
				20	0.250	6.35	15.90
				30	0.277	7.04	17.60
				Std/40 40S	0.322	8.18	20.40
				60	0.406	10.31	25.40
				XS/80 80S	0.500	12.70	30.90
				100	0.594	15.09	36.30
				120	0.719	18.26	43.30
				140	0.812	20.62	48.30
				160	0.906	23.01	53.30
				XXS	0.875	22.23	51.70
10"	10.75	273	A=381.0 短A=254.0 B=158.8 O=762.0 K=517.7	5S	0.109	2.77	7.15
				10S	0.148	3.76	9.65
				20	0.250	6.35	15.90
				30	0.277	7.04	17.60
				Std/40 40S	0.322	8.18	20.40
				60	0.406	10.31	25.40
				XS/80 80S	0.500	12.70	30.90
				80	0.594	15.09	36.30
				100	0.719	18.26	43.30
				120	0.812	20.62	48.30
				140/XXS	0.906	23.01	53.30
				160	0.875	22.23	51.70
				12"	12.75	323.9	A=457.2 短A=304.8 B=190.5 O=914.4 K=619.3
10S	0.180	4.57	26.10				
20	0.250	6.35	35.70				
30	0.330	8.38	46.80				
Std/40S	0.375	9.53	53.10				
60	0.406	10.31	57.80				
XS/80 80	0.500	12.70	70.00				
60	0.562	14.27	78.20				
80	0.688	17.48	94.70				
100	0.844	21.44	115.00				
120/XXS	1.000	25.40	134.00				
140	1.125	28.58	149.00				
160	1.312	33.32	171.00				
14"	14	355.6	A=533.4 短A=355.6 B=222.3 O=1066.8 K=711.2	5S	0.156	3.96	30.80
				10S	0.188	4.78	36.90
				10	0.250	6.35	45.80
				20	0.312	7.92	56.90
				Std/30S	0.375	9.35	68.10
				40	0.438	11.13	79.20
				XS	0.500	12.70	90.00
				60	0.594	15.09	106.00
				80	0.750	19.05	132.00
				100	0.938	23.83	163.00
				140	1.094	27.79	188.00
				120	1.250	31.75	212.00
				160	1.406	35.71	236.00

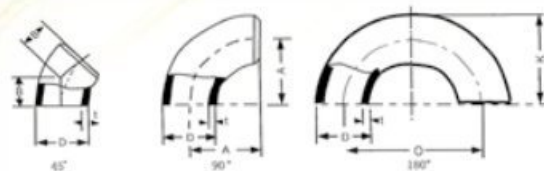
碳鋼焊接管配件 (志成牌)

長半徑彎頭 Elbows Long Radius

ASME/ANSI B16.9

MSS SP-43

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions			Wall Thickness:t 壁厚			Approx.weight 重量				
	Outside Diameter at Bevel:D 外徑		Center to End:A/B Center to Center:o Back to Face:k	sch.NO	t						
	inch 英吋	mm	mm		inch 英吋	Mm	90° kg				
16"	16	406.4	A=609.6 短A=406.4 B=254.0 O=1219.2 K=812.8	5S	0.165	4.19	39.90				
				10S	0.188	4.78	45.50				
				10	0.250	6.35	74.30				
				20	0.312	7.92	60.00				
				Std/30	0.375	9.53	89.50				
				XS/40	0.500	12.70	118.00				
				60	0.656	16.66	153.00				
				80	0.844	21.44	195.00				
				100	1.031	26.19	235.00				
				120	1.219	30.96	274.00				
				140	1.438	36.53	319.00				
				160	1.594	40.49	350.00				
				18"	18	457.0	A=685.8 短A=457.2 B=285.8 O=1371.6 K=914.4	5S	0.165	4.19	50.50
10S	0.188	4.78	57.70								
10	0.250	6.35	76.10								
20	0.312	7.92	94.50								
30	0.438	11.13	113.00								
Std	0.375	9.53	132.00								
XS	0.500	12.70	150.00								
40	0.562	14.27	168.00								
60	0.750	19.05	222.00								
80	0.937	23.83	274.00								
100	1.156	29.36	334.00								
120	1.375	34.93	392.00								
140	1.562	39.67	440.00								
160	1.781	45.24	495.00								
20"	20	508.0	A=762.0 短A=508.0 B=317.5 O=1524.0 K=1016.0	5S	0.188	4.78	71.30				
				10S	0.218	5.54	81.50				
				10	0.250	6.35	94.00				
				std/20	0.375	9.53	140.00				
				xs/30	0.500	12.70	186.00				
				40	0.594	15.09	220.00				
				60	0.812	20.62	297.00				
				80	1.031	26.19	372.00				
				100	1.281	32.54	457.00				
				120	1.500	38.10	528.00				
				140	1.750	44.45	609.00				
				160	1.969	50.01	676.00				
				22"	22	559.0	A=838.2 短A=558.8 B=342.9 O=1676.4 K=1117.6	5S	0.188	4.78	86.30
10S	0.218	5.54	98.80								
10	0.250	6.35	114.00								
std/20	0.375	9.53	170.00								
xs/30	0.500	12.70	225.00								
60	0.875	22.23	387.00								
80	1.125	28.58	793.00								
100	1.375	34.93	594.00								
120	1.625	41.23	694.00								
140	1.875	47.63	790.00								
160	21.250	53.98	886.00								
24"	24	610.0	A=914.4 短A=609.6 B=381.0 O=1828.8 K=1219.2					5S	0.218	5.54	118.00
								10S	0.250	6.35	137.00
				10	0.250	6.35	136.00				
				STD/20	0.375	9.53	202.00				
				xs	0.500	12.70	269.00				
				30	0.562	14.27	301.00				
				40	0.688	17.48	366.00				
				60	0.969	24.61	510.00				
				80	1.219	30.96	636.00				
				100	1.531	38.89	786.00				
				120	1.812	46.02	919.00				
				140	2.062	52.37	1033.00				
				160	2.344	59.54	1160.00				

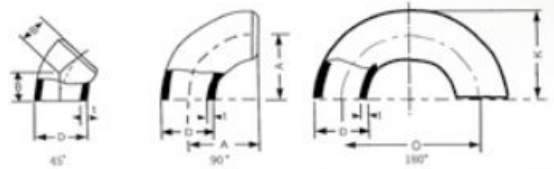
碳鋼焊接管配件 (志成牌)

長半徑彎頭 Elbows Long Radius

ASME/ANSI B16.9

MSS SP-43

規格 重量



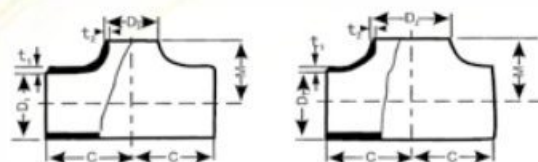
Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions			Wall Thickness:t 壁厚			Approx.weight 重量
	Outside Diameter at Bevel:D 外徑		Center to End:A/B Center to Center:o Back to Face:k	sch.NO	t		
	inch 英吋	mm	mm		inch 英吋	Mm	
26"	26	660.0	A=990.6 短 A=660.4 B=406.4	10 std xs/20	0.312 0.375 0.500	7.92 9.53 12.70	198.00 238.00 316.00
28"	28	711.0	A=1066.8 短 A=711.2 B=438.2	10 std xs/20 30	0.312 0.375 0.500 0.625	7.92 9.53 12.70 15.88	230.00 276.00 367.00 456.00
30"	30	762.0	A=1143.0 短 A=762.0 B=469.9	5s 10s 10 std xs/20 30	0.250 0.312 0.312 0.375 0.500 0.625	6.35 7.92 7.92 9.53 12.70 15.88	264.00 318.00 421.00 524.00
32"	32	813.0	A=1219.2 短 A=812.8 B=501.7	10 xs/20 30 40	0.312 0.375 0.500 0.625 0.688	7.92 9.53 12.70 15.88 17.48	301.00 362.00 480.00 597.00 656.00
34"	34	864.0	A=1295.4 短 A=863.6 B=533.4	10 std xs/20 30 40	0.312 0.375 0.500 0.625 0.688	7.92 9.53 12.70 15.88 17.48	340.00 408.00 543.00 675.00 742.00
36"	36	914.0	A=1371.6 短 A=914.4 B=56.2	10 std xs/20 30 40	0.312 0.375 0.500 0.625 0.750	7.92 9.53 12.70 15.88 19.05	381.00 458.00 608.00 758.00 906.00
38"	38	965.0	A=1447.8 短 A=965.2 B=600.0	std/40 xs/80	0.375 0.500	9.53 12.70	510.00 679.00
40"	40	1016.0	A=1524 短 A=1016.0 B=631.8	std/40 xs/80	0.375 0.500	9.53 12.70	565.00 753.00
42"	42	1066.8	A=1600.2 短 A=1066.8 B=660.4	std/40 xs/80	0.375 0.500	9.53 12.70	622.00 828.00
44"	44	1107.6	A=1676.4 短 A=1117.6 B=695.3	std/40 xs/80	0.375 0.500	9.53 12.70	684.00 912.00
46"	46	1168.4	A=1752.6 短 A=1168.4 B=717.1	std/40 xs/80	0.375 0.500	9.53 12.70	748.00 997.00
48"	48	1219.2	A=1828.8 短 A=1219.2 B=756.8	std/40 xs/80	0.375 0.500	9.53 12.70	814.00 1085.00

碳鋼焊接管配件 (志成牌)

三通 Seamless Welding

Straight and Reducing Outlet Tees
ASME/ANSI B16.9

規格 重量



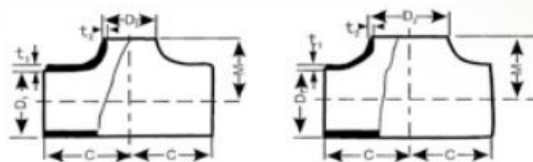
Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions				Wall Thickness-Approx.Weight 壁厚														
	Outside Diameter at Bevel: D ₁ /D ₂ 外徑		Center to End		SCH.20			SCH.30			STD			SCH.40			SCH.60		
	D ₁ mm	D ₂ mm	C mm	M mm	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg
1-1/2 x1-1/2	48.3	48.3	557.2	57.2							2.77	2.77	0.74	2.77	2.77	0.74			
2 x3/4	60.3	26.7	63.5	44.5							3.91	2.87	0.85	3.91	2.87	0.85			
x1		33.4	63.5	50.8								3.38	0.90		3.38	0.90			
x1-1/4		42.2	63.5	57.2								3.56	0.95		3.56	0.95			
x1-1/2		48.3	63.5	60.5								3.68	0.95		3.68	0.99			
x2		60.3	63.5	63.5								3.91	1.06		3.91				
2-1/2 x1	73.0	33.4	76.2	57.2							6.16	3.38		5.16	3.38	1.06			
x1-1/4		42.2	76.2	63.5								3.56	1.78		3.56	1.78			
x1-1/2		48.3	76.2	66.5								3.68	1.81		3.68	1.18			
x2		60.3	76.2	69.9								3.91	1.87		3.91	1.87			
x2-1/2		73.0	76.2	76.2								5.16	2.09		5.16	2.09			
3 x1-1/4	88.9	42.2	85.9	69.9							5.49	3.56		5.49	3.56				
x1-1/4		48.3	85.9	73.2								3.68	2.47		3.68	2.47			
x2		60.3	85.9	76.2								3.91	2.54		3.91	2.54			
x2-1/2		73.0	85.9	82.6								5.16	2.75		5.16	2.75			
x3		88.9	85.9	85.9								5.49	2.89		5.49	2.89			
4 x1-1/2	114.3	48.3	104.6	85.9							6.02	3.68		6.02	3.68				
x2		60.3	104.6	88.9								3.91	4.24		3.91	4.24			
x2-1/2		73.0	104.6	95.3								5.16	4.45		5.16	4.45			
x3		88.9	104.6	98.6								5.49	4.60		5.49	4.60			
x4	141.3	114.3	104.6	104.6								6.02	4.94		6.02	4.49			
5 x2		60.3	124.0	104.6							6.55	3.91		6.55	3.91				
x2-1/2		73.0	124.0	108.0								5.16	6.85		5.16	6.85			
x3		88.9	124.0	111.3								5.49	7.00		5.49	7.00			
x4		114.3	124.0	117.3								6.02	7.36		6.02	7.36			
x5		141.3	124.0	124.0								6.55	7.83		6.55	7.83			
6 x2-1/2	168.3	73.0	142.7	120.7							7.11	5.16		7.11	5.16				
x3		88.9	142.7	124.0								5.49	10.06		5.46	10.06			
x4		114.3	142.7	130.0								6.02	10.40		6.02	10.40			
x5		141.3	142.7	136.7								6.55	10.90		6.55	10.90			
x6		168.3	142.7	142.7								7.11	11.50		7.11	11.50			
8 x4	219.1	114.3	177.8	155.4							8.18	6.06	18.84	8.18	6.02	18.84			
x5		141.3	177.8	162.1								6.55	19.32		6.55	19.32			
x6		168.3	177.8	168.1								7.11	19.32		7.11	19.32			
x8		219.1	177.8	177.8	6.35	6.35	19.78	7.04	7.04	20.64		8.18	21.48		8.18	21.48	10.31	10.31	27.35
10 x4	273.0	114.3	177.8	184.2							9.27	6.02		9.27	6.02				
x5		141.3	215.6	190.5								6.55	32.13		6.55	32.16			
x6		168.3	215.6	193.5								7.11	32.64		7.11	32.64			
x8		219.1	215.6	203.2	6.35	6.35	28.55	7.80	7.04	33.20		8.18	34.20		8.18	34.20	2.70	10.31	46.10
x10		273.0	215.6	215.9		6.35	29.84		7.80	33.20	9.53	9.27	36.48		9.27	36.48		12.70	50.22
12 x5	323.9	141.3	215.6	215.9								6.55		10.31	6.55				
x6		168.3	254.0	218.9								7.11	46.08		7.11	61.44			
x8		219.1	254.0	228.6	6.35	6.35	35.43	8.38	7.04	47.13		8.18	47.64		8.18	63.72	14.27	10.31	66.65
x10		273.0	254.0	241.3		6.35	37.32		7.80	48.68		9.27	49.92		9.27	66.24		12.70	81.70
x12		323.9	254.0	254.0		6.35	37.32		8.38	48.68	9.53	9.53	52.32		10.31	70.08		14.27	81.70

碳鋼焊接管配件 (志成牌)

三通 Seamless Welding

Straight and Reducing Outlet Tees
ASME/ANSI B16.9

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions				Wall Thickness-Approx.Weight 壁厚														
	Outside Diameter at Bevel: D ₁ /D ₂ 外徑		Center to End		SCH.20			SCH.30			STD			SCH.40			SCH.60		
	D ₁ mm	D ₂ mm	C mm	M mm	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg
14 x6	355.6	168.3	254.0	238.3								7.11		11.13	7.11				
x8		219.1	279.4	247.7	7.92	6.35	67.34	9.53	7.04	71.04		8.18	57.84		8.18	76.40	15.09	10.31	109.31
x10		273.0	279.4	257.0		6.35	67.34		7.80	71.04		9.27	59.88		9.27	91.32		12.70	109.31
x12		323.9	279.4	269.7		6.35	69.32		8.38	73.10		9.53	62.28		10.31	95.78		14.27	116.10
x14		355.6	279.4	279.4		7.92	69.32		9.53	73.10	9.53	9.53	64.20		11.13	99.84		15.09	116.10
16 x6	406.4	168.3	279.4	263.7								7.11		12.70	7.11				
x8		219.1	304.8	273.1	7.92	6.35	84.28	9.53	7.04	91.59		8.18			8.18		16.66	10.31	137.86
x10		273.0	304.8	282.4		6.35	84.28		7.80	91.59		9.27	73.56		9.27	105.72		12.70	137.86
x12		323.9	304.8	295.1		6.35	86.00		8.38	91.59		9.53	75.72		10.31	109.24		14.27	148.70
x14		355.6	304.8	304.8		7.92	86.00		9.53	94.60		9.53	77.88		11.13	114.24		15.09	148.70
x16		406.4	304.8	304.8		7.92	86.00		9.53	94.60	9.53	9.53	79.32		12.70	132.00		16.66	155.23
18 x12	457.0	323.9	304.8	320.7	7.92	6.35						9.53	93.96	14.27	10.31	153.60	19.05	14.27	
x14		355.6	342.9	330.2		7.92						9.53	96.24		11.13	158.40		15.09	
x16		406.4	342.9	330.2		7.92						9.53	97.68		12.70	162.00		16.66	
x18		457.0	342.9	342.9		7.92						9.53	100.68			187.50		19.05	
20 x14	508.0	355.6	381.0	355.6	9.53	7.90					9.53	9.53	116.64	15.09	11.13	213.60	20.62	15.09	
x16	508.0	406.4	381.0	355.6		7.90							118.08		12.70	217.20		16.66	
x18	508.0	457.0	381.0	368.3		7.90							121.20		14.27	255.60		19.05	
x20	508.0	508.0	381.0	381.0		9.53							124.80			244.80		20.62	
22 x16	559.0	406.4	419.1	381.0	9.53	7.90					9.53	9.53	140.40	15.09			22.23	16.66	
x18	559.0	457.0	419.1	393.7		7.90							144.00					19.05	
x20	559.0	508.0	419.1	406.4		9.53							147.60					20.62	
x22	559.0	559.0	419.1	419.1		9.53							151.20					22.23	
24 x18	610.0	457.0	431.8	419.1	9.53	7.90					9.53	9.53	159.60	17.48	15.09	298.80	24.61	19.05	
x20	610.0	508.0	431.8	431.8		9.53							163.20			321.60		20.62	

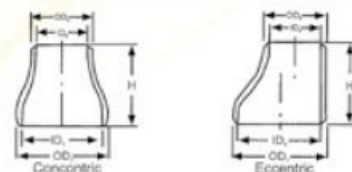
Nominal Pipe Size 公稱通徑 inch 英吋	Wall Thickness-Approx.Weight 壁厚																	
	XS			SCH.80			SH.100			SCH.120			SCH.140			SCH.160		
	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg
20 x14	12.70	12.70	154.8	26.19	19.05	346.8	32.54	23.83		38.10	27.79		44.45	31.75		44.93	35.71	589.2
x16			157.2		21.44	352.8		26.19			30.96			36.53			40.49	609.6
x18			16.08		23.83	367.2		29.36			34.93			39.67			44.45	633.6
x20			165.6		26.19	423.6		32.54		41.28	38.10			44.45			44.93	756.0
22 x16	12.07	12.07	187.2	28.58	21.44	424.8	34.93	26.19			30.96		47.63	36.53		53.98	40.49	787.2
x18			190.8		23.89	447.6		29.36			34.93			39.67			44.45	835.2
x20			195.6		26.19	463.2		32.54		46.02	38.10			44.45			44.93	888.0
x22	12.07		200.4		28.58	543.6		34.93			41.28			47.63			53.98	1002.0
24 x18		12.07	212.4	31.00	23.83	501.6	38.89	29.36			34.93		52.40	39.67		59.54	44.45	922.8
x20			217.2		26.20	560.4		32.54			38.10			44.45			44.93	1011.6
x22			219.6		28.60	603.6		34.93			41.28			47.63			53.98	1106.4
x24			222.0		30.96	657.6		38.89			46.02			52.37			59.54	1214.4

碳鋼焊接管配件 (志成牌)

異徑管 Seamless Welding Reducers

ASME/ANSI B16.9

規格 重量



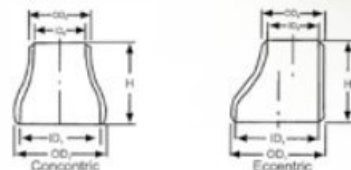
Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions			Wall Thickness-Approx.Weight 壁厚														
	Outside Diameter at Bevel: D ₁ /D ₂ 外徑		End to End H mm	SCH.20			SCH.30			STD			SCH.40			SCH.60		
	D ₁ mm	D ₂ mm		t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg
1 x3/4	33.4	26.7	50.8							3.38	2.87	0.14	3.38	2.87	0.14			
1-1/2 x3/4	48.3	26.7	63.5							3.68	2.87	0.22	3.68	2.87	0.22			
x1		33.4	63.5								3.38	0.24		3.38	0.24			
x1-1/4		42.2	63.5								3.56	0.26		3.56	0.26			
2 x1	60.3	33.4	76.2							3.91	3.38	0.37	3.91	3.38	0.37			
x1-1/4		42.2	76.2								3.56	0.39		3.56	0.39			
x1/2		48.3	76.2								3.68	0.41		3.68	0.41			
2-1/2 x1-1/4	73.0	42.2	88.9							5.16	3.56	0.67	5.16	3.56	0.67			
x1-1/2		48.3	88.9								3.68	0.68		3.68	0.68			
x2		60.3	88.9								3.91	0.73		3.91	0.73			
3 x1 1/2	88.9	48.3	88.9							5.49	3.68	0.86	5.49	3.68	0.86			
x2		60.3	88.9								3.91	0.91		3.91	0.91			
x2-1/2		73.0	88.9								5.16	0.98		5.16	0.98			
4 x2	114.3	60.3	101.6							6.02	3.91	1.44	6.02	3.91	1.44			
x2-1/2		73.0	101.6								5.16	1.52		5.16	1.52			
x3		88.9	101.6								5.49	1.59		5.49	1.59			
5 x2-1/2	141.3	73.0	127.0							6.55	5.16	2.51	6.55	5.16	2.51			
x3		88.9	127.0								5.49	2.60		5.49	2.60			
x4		114.3	127.0								6.02	2.72		6.02	2.72			
6 x3	168.3	88.9	139.7							7.11	5.49	3.63	7.11	5.49	3.63			
x4		114.3	139.7								6.02	3.72		6.02	3.72			
x5		141.3	139.7								6.55	3.93		6.55	3.93			
8 x4	219.1	114.3	152.4							8.18	6.02	5.95	8.18	6.02	5.95			
x5		141.3	152.4								6.55	6.08		6.55	6.08			
x6		168.3	152.4								7.11	6.31		7.11	6.31			
10 x5	273.0	141.3	177.8							9.27	6.55	9.90	9.27	6.55	9.90			
x6		168.3	177.8								7.11	10.10		7.11	10.10			
x8		219.1	177.8	6.35	6.35	7.89	7.80	7.04	9.62		8.18	10.50		8.18	10.50	12.70	10.31	
12 x6	323.9	168.1	203.2							9.53	7.11	14.10	10.31	7.11	16.50			
x8		216.1	203.2	6.35	6.35	10.70	6.38	7.04	14.00		8.18	14.60		8.18	17.20	14.27	10.31	23.50
x10		273.0	203.2		6.35	11.10		7.80	14.60		9.27	15.20		9.27	17.80		12.70	24.30
14 x8	355.6	219.1	330.2	7.92	6.35	23.10	9.53	7.04	27.60	9.53	8.18	26.00	11.13	6.18	32.10	15.09	10.31	43.10
x10		273.0	330.2		6.35	24.20		7.80	29.00		9.27	27.40		9.27	33.70		12.70	45.10
x12		323.9	330.2		6.35	25.60		8.38	30.60		9.53	28.80		10.31	35.60		14.27	47.70
16 x8	406.4	219.1	355.6	7.92	6.35	27.70	9.53	7.04	33.20	9.53	8.18	31.90	12.70	8.18	43.90	16.66	10.31	56.80
x10		273.0	355.6		6.35	28.80		7.80	34.50		9.27	33.10		9.27	45.70		12.70	59.00
x12		323.9	355.6		6.35	29.90		8.38	35.80		9.53	34.30		10.31	47.40		14.27	61.40
x14		355.6	355.6		7.92	30.50		9.53	36.50		9.53	35.20		11.13	48.30		15.09	62.50
18 X12	457.20	323.9	381.0	7.92	6.38					9.53	9.53	33.20	14.27	10.31	51.0	19.05	14.27	
X14		355.6	381.0		7.92						9.53	35.70		11.13	53.0		15.09	
X16		406.4	381.0		7.92						9.53	37.80		12.70	56.2		16.66	
20 X14	508.00	355.6	508.0	9.53	7.90					9.53	9.53	50.80	15.09	11.13	79.6	20.62	15.09	
X16		406.4	508.0		7.92						9.53	53.50		12.70	83.9		16.66	
X18		457.2	508.0		7.92						9.53	56.40		14.27	88.4		19.05	
22 X16	559.00	406.4	508.0	9.53	7.92					9.53	9.53	56.40				22.23	16.99	
X18		457.2	508.0		7.92						9.53	59.40					19.05	
X20		508.0	508.0		7.92						9.53	62.40					20.62	
24 X18	61.00	457.2	508.0	9.53	9.53					9.53	9.53	63.00	17.48	14.27	114.0	24.61	19.05	
X20		508.0	508.0								9.53	65.70		15.09	119.0		20.62	
X22		559.0	508.0								9.53	68.40					22.23	

碳鋼焊接管配件 (志成牌)

異徑管 Seamless Welding Reducers

ASME/ANSI B16.9

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Wall Thickness-Approx.Weight 壁厚																				
	XS			SCH.80			SCH.100			SCH.120			SCH.140			SCH.160			XXS		
	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg	t ₁ mm	t ₂ mm	Kg
1 X3/4	4.55	3.91	0.17	4.55	3.91	0.17										6.35	5.56	0.22			
1-1/2 X3/4	5.08	3.91	0.27	5.08	3.91	0.27										7.14	5.56	0.51	10.15	7.82	0.67
X1		4.55	0.31		4.55	0.31										6.35	0.55		9.09	0.73	
X1 1/4		4.85	0.33		4.85	0.33										6.34	0.60		9.70	0.79	
2 X1	5.54	4.55	0.45	5.54	4.55	0.45										8.74	6.35	0.94	11.07	9.09	1.14
X1-1/4		4.85	0.53		4.85	0.53										6.35	0.99		9.70	1.20	
X1/2		5.08	0.54		5.08	0.54										7.14	1.04		10.15	1.26	
2-1/2 X1-1/4	7.01	5.54	0.79		4.85	0.79										9.53	6.35	1.52	14.02	9.70	2.07
X1-1/2		5.08	0.86		5.08	0.86										7.14	1.53		10.15	2.10	
X2		5.54	0.94		5.54	0.94										8.74	1.65		11.07	2.25	
3 X1-1/2	7.62	7.01	1.04	7.62	5.08	1.04										11.13	7.14	2.12	15.24	10.15	2.76
X2		5.54	1.18		5.54	1.18										8.74	2.23		11.07	2.90	
X2-1/2		7.01	1.29		7.01	1.29										9.53	2.40		14.02	3.12	
4 X2	8.56	7.62	1.78	8.56	5.54	1.78										13.49	8.74	3.97	17.12	11.07	4.85
X2-1/2		7.01	2.01		7.01	2.01										9.53	4.21		14.02	5.14	
X3		7.62	2.13		7.62	2.13										11.13	4.38		15.24	5.35	
5 X2 1/2	9.53	8.56	3.30	9.53	7.01	3.30										15.88	9.53	6.68	19.05	14.02	8.02
X3		7.62	3.55		7.62	3.55										11.13	7.10		15.24	8.31	
X4		8.56	3.78		8.56	3.78				12.70	11.13	6.09				13.49	7.14		17.12	8.62	
6 X3	10.97	9.53	5.04	10.97	7.62	5.04										18.26	11.13	9.93	21.95	15.24	11.60
X4		8.56	5.45		8.56	5.45				14.27	11.13	8.20				13.49	10.22		17.12	12.00	
X5		9.53	5.72		9.53	5.72				12.70	8.65					15.88	10.78		19.05	12.60	
8 X4	12.70	10.97	8.44	12.70	8.56	8.44				18.26	11.13	14.00				23.01	13.49	17.30	22.23	17.12	16.70
X5		9.53	8.85		9.53	8.85				12.70	14.40					15.88	17.80		19.05	17.20	
X6		10.97	9.26		10.97	9.26				14.27	15.00					18.26	18.40		21.95	17.90	
10 X5	12.70	12.70	15.09		9.53	17.60				21.44	12.70	24.40				28.58	15.88	31.60	25.40	19.05	28.40
X6		10.97	13.50		10.97	17.90				14.27	24.90					18.26	32.20		21.95	29.00	
X8		12.70	18.10		12.70	18.10	18.26	15.09	21.70		18.26	25.10	25.40	20.62	29.30	23.01	32.50		22.23	29.30	
12 X6	12.70	12.70	18.40		10.97	27.30				25.40	14.27	38.70				33.32	18.26	49.40	25.40	21.95	38.70
X8		12.70	19.10		12.70	28.40	21.44	15.09	34.40		18.26	40.20	28.58	20.62	44.80	23.01	51.40		22.23	40.20	
X10		12.70	19.80		15.09	29.50		18.26	35.70		21.44	41.70		25.40	46.30	28.58	53.30		25.40	41.70	
14 X8	12.70	12.70	34.90	19.05	12.70	53.70	23.83	15.09	66.30	27.79	18.26	76.30	31.75	20.62	86.70	35.71	23.01	95.70	35.71		
X10		12.70	36.10		15.09	56.30		18.26	69.50		21.44	80.10		25.40	90.40		28.58	100.40			
X12		12.70	37.70		17.48	59.5		21.44	73.30		25.40	84.50		28.58	95.40		33.32	106.00			
16 X8	12.70	12.70	42.60	21.44	12.70	72.40	26.19	15.09	87.20	30.96	18.26	101.80	36.53	20.62	118.60	40.49	23.01	130.10	40.49		
X10		12.70	43.70		15.09	75.30		18.26	90.60		21.44	105.80		25.40	123.30		28.58	135.30			
X12		12.70	45.00		17.48	78.20		21.44	94.10		25.40	109.90		28.58	128.10		33.32	140.50			
X14		12.70	46.3		19.05	79.70		23.83	95.90		27.79	111.90		31.75	130.50		35.71	143.10			
18 X12	12.70	12.70	44.0	23.83	17.48	83.0	29.36	21.44		34.93	25.40		39.67	28.58		45.23	33.32				
X14		12.70	47.4		19.05	86.4		23.83		34.93	37.79			31.75			35.71				
X16		12.70	50.1		21.44	91.4		26.19			30.96			36.53			40.49				
20 X14	12.70	12.70	67.4	26.19	19.05	136.0	32.40	23.83		38.10	27.79		44.45	31.75		50.01	35.7				
X16		12.70	71.1	26.19	21.44	142.0		26.19			30.96			36.53			40.41				
X18		12.70	74.9		23.83	150.0		29.36			34.93			39.67			45.23				
22 X16	12.70	12.70	74.8	28.58	21.44	164.0	34.93	26.19		41.28	30.96		47.63	36.53		53.98	40.49				
X18		12.70	78.9		23.83	172.0		29.36			34.93			39.67			45.23				
X20		12.70	82.9		26.19	181.0		32.54			38.10			44.45			50.01				
24 X18	12.70	12.70	83.8	30.96	23.83	197.0	38.89	29.36		46.02	34.93		52.37	39.67		59.54	45.23				
X20		12.70	87.3		26.19	205.0		32.54			38.10			44.45			50.01				
X22		12.70	91.0		28.58	215.0		34.93			41.28			47.63			53.98				

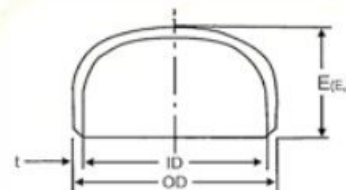
碳鋼焊接管配件 (志成牌)

管帽 Caps

ASME/ANSI B16.9

MSS SP-43

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions					Wall Thickness:t 壁厚			Approx. weight 重量
	Outside Diameter at Bevel:D 外徑		Height:E 高度 E	限制 厚度	高度 E ₁	sch.NO	t		
	inch 英吋	mm	mm	mm	mm		inch 英吋	mm	kg
1/2"	0.840	21.34	25.4	4.57	25.4	5S	0.065	1.650	0.030
						10S	0.083	2.110	0.032
						STD/40 40S	0.109	2.770	0.040
						XS/80 80S	0.147	3.730	0.050
						160	0.188	4.780	-
						XXS	0.294	7.470	-
3/4"	1.050	26.67	25.4	3.81	25.4	5S	0.065	1.650	0.040
						10S	0.083	2.110	0.040
						STD/40 40S	0.133	3.380	0.050
						XS/80 80S	0.154	3.910	0.070
						160	0.219	5.560	-
						XXS	0.308	7.820	-
1"	1.315	33.40	38.1	4.57	38.1	5S	0.065	1.650	0.053
						10S	0.109	2.770	0.090
						STD/40 40S	0.133	3.380	0.110
						XS/80 80S	0.179	4.550	0.150
						160	0.250	6.350	-
						XXS	0.358	9.090	-
1-1/4"	1.660	42.20	38.1	4.83	38.1	5S	0.065	1.650	0.066
						10S	0.109	2.770	0.110
						STD/40 40S	0.140	3.560	0.140
						XS/80 80S	0.191	4.850	0.200
						160	0.250	6.350	-
						XXS	0.382	9.700	-
1-1/2"	1.900	48.30	38.1	5.08	38.1	5S	0.065	1.650	0.076
						10S	0.109	2.770	0.140
						STD/40 40S	0.145	3.680	0.170
						XS/80 80S	0.200	5.080	0.240
						160	0.281	7.140	0.350
						XXS	0.400	10.160	0.500
2"	2.375	60.30	38.1	5.59	44.5	5S	0.065	1.650	0.099
						10S	0.109	2.770	0.190
						STD/40 40S	0.154	3.910	0.240
						XS/80 80S	0.218	5.540	0.330
						160	0.344	8.740	0.540
						XXS	0.436	11.070	0.680
2-1/2"	2.870	73.00	38.1	7.11	50.8	5S	0.083	2.110	0.169
						10S	0.120	3.050	0.240
						STD/40 40S	0.203	5.160	0.420
						XS/80 80S	0.276	7.010	0.570
						160	0.375	9.530	0.770
						XXS	0.552	14.020	1.130
3"	3.500	50.80	50.8	7.62	50.8	5S	0.083	2.110	0.253
						10S	0.120	3.050	0.400
						STD/40 40S	0.216	5.490	0.670
						XS/80 80S	0.300	7.620	0.920
						160	0.438	11.250	1.400
						XXS	0.600	15.240	1.920
4"	4.500	114.30	63.5	8.64	76.2	5S	0.083	2.110	0.409
						10S	0.120	3.050	0.580
						STD/40 40S	0.237	6.020	1.170
						XS/80 80S	0.387	8.560	1.680
						120	0.438	11.130	1.680
						160	0.531	13.490	2.760
XXS	0.674	17.120	3.510						

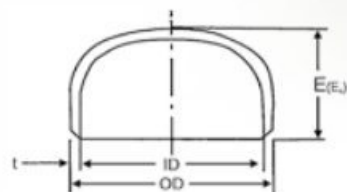
碳鋼焊接管配件 (志成牌)

管帽 Caps

ASME/ANSI B16.9

MSS SP-43

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions					Wall Thickness:t 壁厚			Approx. weight 重量
	Outside Diameter at Bevel:D 外徑		Height:E 高度 E	限制 厚度	高度 E ₁	sch.NO	t		
	inch 英吋	mm	mm	mm	mm		inch 英吋	mm	kg
5"	5.563	141.30	76.2	9.654	88.9	5S	0.109	2.770	0.805
						10S	0.134	3.400	1.000
						STD/40 40S	0.258	6.550	1.900
						XS/80 80S	0.375	9.530	2.730
						120	0.500	12.700	2.730
						160	0.625	15.880	4.850
						XXS	0.750	19.050	5.820
6"	6.625	168.30	88.9	10.92	101.6	5S	0.109	2.770	1.110
						10S	0.134	3.400	1.600
						STD/40 40S	0.280	7.110	2.830
						XS/80 80S	0.432	10.970	4.380
						120	0.562	14.270	-
						160	0.719	18.260	7.810
						XXS	0.864	21.950	9.380
8"	8.625	219.1	101.6	12.7	127.0	5S	0.109	2.770	1.740
						10S	0.148	3.760	2.500
						STD/40 40S	0.322	8.180	5.110
						XS/80 80S	0.500	12.070	7.910
						20	0.250	6.350	-
						60	0.406	10.310	-
						100	0.594	15.090	-
						120	0.719	18.260	-
						140	0.812	20.620	-
						160	0.906	23.010	15.200
						XXS	0.875	-	14.700
10"	10.750	273	127.0	12.7	152.4	5S	0.134	3.404	3.260
						10S	0.165	4.191	4.900
						80/80S 60	0.500	12.700	16.400
						STD/40 40S	0.365	9.271	8.920
						XS	0.594	15.090	12.200
						20	0.250	6.350	-
						100	0.719	18.260	-
						120	0.844	21.440	-
						140/XXS	1.000	25.400	25.700
						160	1.125	28.580	28.900
12"	12.750	323.9	152.4	12.7	177.8	5S	0.156	3.960	5.470
						10S	0.180	4.572	6.500
						STD/40S	0.375	9.530	13.100
						XS/80S	0.500	12.700	17.400
						20	0.250	6.350	-
						40	0.406	10.310	14.000
						80	0.688	14.270	26.400
						100	0.844	17.480	-
						120	1.000	21.440	-
						140	1.125	28.580	36.400
						160	1.312	33.320	47.700
14"	14.000	355.6	165.1	12.7	190.5	5S	0.156	3.960	-
						10S	0.188	4.780	-
						STD	0.375	9.530	15.900
						20	0.312	7.920	-
						40	0.438	11.130	18.600
						XS	0.500	12.700	21.200
						60	0.594	15.090	-
						80	0.750	19.050	34,900
						100	0.938	23.825	-
						120	1.094	27.790	-
						140	1.250	31.750	-
						160	1.406	35.710	61.200

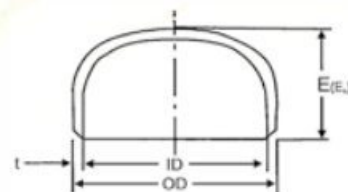
碳鋼焊接管配件 (志成牌)

管帽 Caps

ASME/ANSI B16.9

MSS SP-43

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions					Wall Thickness:t 壁厚			Approx. weight 重量
	Outside Diameter at Bevel:D 外徑		Height:E 高度 E	限制 厚度	高度 E ₁	sch.NO	t		
	inch 英吋	mm	mm	mm	mm		inch 英吋	mm	kg
16"	16.000	406.4	177.8	12.7	203.2	5S	0.165	4.190	-
						10S	0.188	4.780	-
						STD	0.375	9.530	20.000
						XS/40	0.500	12.700	26.700
						20	0.312	7.920	-
						60	0.656	16.660	-
						80	0.844	21.440	49.000
						100	1.031	26.190	-
						120	1.219	30.960	-
						140	1.438	36.530	-
						160	1.594	40.480	130.000
						18"	18.000	457.0	203.2
10S	0.188	4.780	-						
STD	0.375	9.530	25.600						
XS	0.500	12.700	34.100						
20	0.312	7.920	-						
40	0.562	14.270	-						
60	0.750	19.050	-						
80	0.938	23.830	-						
100	1.156	29.360	-						
120	1.375	34.930	-						
140	1.562	39.670	-						
160	1.781	45.240	-						
20"	20.000	508.0	228.6	12.7	254.0	5S	0.168	4.270	-
						10S	0.216	5.540	-
						STD/20	0.375	9.530	31.900
						XS	0.500	12.700	42.500
						40	0.594	15.090	54.100
						60	0.812	20.620	-
						80	1.031	26.190	93.700
						100	1.281	32.540	-
						120	1.500	38.100	-
						140	1.750	44.450	-
						160	1.969	50.010	179.000
						22"	22.000	559.0	254.0
10S	0.218	5.540	-						
STD/20	0.375	9.530	38.800						
XS	0.500	12.700	51.700						
60	0.875	22.230	-						
80	1.125	28.580	116.000						
100	1.375	34.930	-						
120	1.625	41.260	-						
140	1.875	47.630	-						
160	2.125	53.980	219.000						

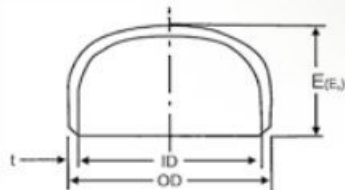
碳鋼焊接管配件 (志成牌)

管帽 Caps

ASME/ANSI B16.9

MSS SP-43

規格 重量



Nominal Pipe Size 公稱通徑 inch 英吋	Dimensions					Wall Thickness:t 壁厚			Approx. weight 重量
	Outside Diameter at Bevel:D 外徑		Height:E 高度 E	限制 厚度	高度 E ₁	sch.NO	t		
	inch 英吋	mm	mm	mm	mm		inch 英吋	mm	kg
24"	24.000	610.0	266.7	12.7	304.8	5S	0.218	5.540	-
						10S	0.250	6.340	-
						STD/20	0.375	9.530	45.100
						XS	0.500	12.700	60.100
						40	0.688	17.480	90.100
						60	0.969	24.610	-
						80	1.219	30.960	160.000
						100	1.531	38.890	-
						120	1.812	46.020	-
						140	2.062	52.370	-
						160	2.344	56.540	307.000
26"	26.000	660.0	266.7	-	-	STD	0.375	9.530	50.500
						XS	0.500	12.700	67.300
28"	28.000	711.0	266.7	-	-	STD	0.375	9.530	56.200
						XS	0.500	12.700	74.900
30"	30.000	762.0	266.7	-	-	5S	0.250	6.350	-
						10S	0.312	7.920	-
						STD	0.375	9.530	62.100
						XS	0.500	12.700	82.800
32"	32.000	813.0	266.7	-	-	ST	0.375	9.530	68.400
						40	0.688	17.480	126.000
						XS	0.500	12.700	91.200
34"	34.000	864.0	266.7	-	-	STD	0.375	9.530	75.000
						XS	0.500	12.700	100.000
						40	0.688	17.480	138.000
36"	36.000	914.0	266.7	-	-	STD	0.375	9.530	81.900
						XS	0.500	12.700	109.000
						40	0.750	19.050	164.000
38"	38.000	965.2	304.8	-	-	STD	0.375	9.530	94.700
						XS	0.500	12.700	126.000
40"	40.000	1016.0	304.8	-	-	STD	0.375	9.530	102.000
						XS	0.500	12.700	137.000
42"	42.000	1066.8	304.8	-	-	STD	0.375	9.530	110.000
						XS	0.500	12.700	147.000
44"	44.000	1117.6	342.9	-	-	STD	0.375	9.530	126.000
						XS	0.500	12.700	167.000
46"	46.000	1168.4	342.9	-	-	STD	0.375	9.530	134.000
						XS	0.500	12.700	179.000
48"	48.000	1219.2	342.9	-	-	STD	0.375	9.530	143.000
						XS	0.500	12.700	191.000

碳鋼焊接管配件（志成牌）

美標、日標、德標彎頭外徑與壁厚

Elbows diameter and wall thickness of
America Japan and Germany's standard

單位：mm

NOMINAL PIPE SIZE		OUTSIDE DIAMETER				NOMINAL WALL THICKNESS														NOMINAL PIPE SIZE						
A	B	ASME	JIS	DIN	JIS ₍₁₎	DIN ₍₂₎	SCH10	SCH20	SCH30	STD	SCH40	SCH60	XS	SCH80	SCH100	SCH120	SCH140	SCH160	XXS	A	B					
15	1/2"	21.3	21.7	21.3	2.8	2.0	2.11	-	2.41	2.77	2.77	-	3.73	3.73	-	-	-	4.78	7.47	15	1/2"					
20	3/4"	26.7	27.2	26.9	2.8	2.3	2.11	-	2.41	2.87	2.87	-	3.91	3.91	-	-	-	5.56	7.82	20	3/4"					
25	1"	33.4	34.0	33.7	3.2	2.6	2.77	-	2.90	3.38	3.38	-	4.55	4.55	-	-	-	6.35	9.09	25	1"					
32	1.1/4"	42.2	42.7	42.4	3.5	2.6	2.77	-	2.97	3.56	3.56	-	4.85	4.85	-	-	-	6.35	9.70	32	1.1/4"					
40	1.1/2"	48.3	48.6	48.3	3.5	2.6	2.77	-	3.18	3.68	3.68	-	5.08	5.08	-	-	-	7.14	10.15	40	1.1/2"					
50	2"	60.3	60.5	60.3	3.8	2.9	2.77	-	3.18	3.91	3.91	-	5.54	5.54	-	-	-	8.74	11.07	50	2"					
65	2.1/2"	73.0	76.3	76.1	4.2	2.9	3.05	-	4.78	5.16	5.16	-	7.01	7.01	-	-	-	9.53	14.02	65	2.1/2"					
80	3"	88.9	89.1	88.9	4.2	3.2	3.05	-	4.78	5.49	5.49	-	7.62	7.62	-	-	-	11.13	15.24	80	3"					
90	3.1/2"	101.6	101.6	-	4.2	-	3.05	-	4.78	5.74	5.74	-	8.08	8.08	-	-	-	-	-	90	3.1/2"					
100	4"	114.3	114.3	114.3	4.5	3.6	3.05	-	4.78	6.02	6.02	-	8.56	8.56	-	11.13	-	13.49	17.12	100	4"					
125	5"	141.3	139.8	139.7	4.5	4.0	3.40	-	-	6.55	6.55	-	9.53	9.53	-	12.70	-	15.88	19.05	125	5"					
150	6"	168.3	165.2	168.3	5.0	4.5	3.40	4.5	-	7.11	7.11	-	10.97	10.97	-	14.27	-	18.26	21.95	150	6"					
200	8"	219.1	216.3	219.1	5.8	6.3	3.76	6.35	7.04	8.18	8.18	10.31	12.70	15.09	15.09	18.26	20.62	23.01	22.23	200	8"					
250	10"	273.0	267.4	273.0	6.6	6.3	4.19	6.35	7.80	9.27	9.27	12.70	12.70	17.48	18.26	21.44	25.40	28.58	25.40	250	10"					
300	12"	323.8	318.5	323.9	6.9	7.1	4.57	6.35	8.38	9.53	10.31	14.27	12.70	19.05	21.44	25.40	28.58	33.23	25.40	300	12"					
350	14"	355.6	355.6	355.6	7.9	8.0	6.35	7.92	9.53	9.53	11.13	15.09	12.70	21.44	23.83	27.79	31.75	35.71	-	350	14"					
400	16"	406.4	406.4	406.4	7.9	8.8	6.35	7.92	9.53	9.53	12.70	16.66	12.70	23.83	26.19	30.96	36.53	40.49	-	400	16"					
450	18"	457.2	457.2	457.0	7.9	10.0	6.35	7.92	11.13	9.53	14.27	19.05	12.70	26.19	29.36	34.93	39.67	45.24	-	450	18"					
500	20"	508.0	508.0	508.0	7.9	11.0	6.35	9.53	12.70	9.53	15.09	20.62	12.70	28.58	32.54	38.10	44.45	50.01	-	500	20"					
550	22"	558.8	558.8	-	-	-	6.35	9.53	12.70	9.53	-	22.23	12.70	30.96	34.93	41.28	47.63	53.98	-	550	22"					
600	24"	609.6	609.6	610.0	-	12.5	6.35	9.53	14.27	9.53	17.48	24.61	12.70	-	38.89	46.02	52.37	59.54	-	600	24"					
650	26"	660.4	660.4	-	-	-	7.92	12.70	-	9.53	-	-	12.70	-	-	-	-	-	-	650	26"					
700	28"	711.2	711.2	711.0	-	12.5	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-	700	28"					
750	30"	762.0	762.0	-	-	-	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-	750	30"					
800	32"	812.8	812.8	813.0	-	12.5	7.92	12.70	15.88	9.53	17.48	-	12.70	-	IS G3452 ASMEB36.10M JIS G3454 DIN2448 JIS G3455 DIN2458 JISG3457					-	800	32"				
850	34"	863.6	863.6	-	-	-	7.92	12.70	15.88	9.53	17.48	-	12.70	-						-	850	34"				
900	36"	914.4	914.4	914.0	-	12.5	7.92	12.70	15.88	9.53	19.05	-	12.70	-						-	900	36"				
950	38"	965.2	965.2	-	-	-	-	-	-	9.53	-	-	12.70	-						-	950	38"				
1000	40"	1016.0	1016.0	1016.0	-	12.5	-	-	-	9.53	-	-	12.70	-						-	1000	40"				
1050	42"	1066.8	1066.8	-	-	-	-	-	-	9.53	-	-	12.70	-						-	1050	42"				
1100	44"	1117.6	1117.6	-	-	-	-	-	-	9.53	-	-	12.70	-						-	-	-	-	-	1100	44"
1150	46"	1168.4	1168.4	-	-	-	-	-	-	9.53	-	-	12.70	-						-	-	-	-	-	1150	46"
1200	48"	1219.2	1219.2	1220.0	-	-	-	-	-	9.53	-	-	12.70	-	-	-	-	-	-	-	1200	48"				

NOTE:

(1) The wall thickness specified is grade FSGP of JIS B2311:1997

(2) The wall thickness specified is for series 3 of DIN 2605 (part 1):02.91

碳鋼焊接管配件 (志成牌)**適用標準**

Applicable Standards

ASME Standards

- B16.9** Factory-Made Wrought Steel Butt welding Fittings
- B16.28** Wrought Steel Butt welding Short Radius Elbows and Returns
- B16.25** Butt welding Ends
- B36.10** Welded and Seamless Wrought Steel Pipe
- B36.19** Stainless Steel Pipe

ASTM Standards

- A234** Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and high Temperature Service
- B403** Wrought Austenitic Stainless Steel Piping Fittings
- B420** Piping Fittings of Wrought carbon Steel and Alloy Steel low Temperature Service
- S815** Wrought Ferritic/Austenitic, and Martensitic Stainless Steel Piping Fitting MSS Standards
- SP-43** Wrought Stainless Steel Butt-Welding Fittings
- SP-75** High Test Wrought Butt-Welding Fittings
- SP-79** Socket Welding Reducer Inserts
- SP-87** Factory-Made Butt-Welding Fitting for Class I Nuclear Piping Applications JIS Standards
- B2220** Steel Welding Pipe Flanges
- B2311** Steel Butt-Welding Pipe Fittings for Ordinary Use
- B2312** Steel Butt-Welding Pipe Fittings
- B2313** Steel Plate Butt-Welding Pipe Fittings
- G3452** Carbon Steel Pipes for Ordinary Piping
- G3454** Carbon Steel Pipes for pressure Service
- G3457** Arc Welded Carbon Steel Pipes

DIN Standards

- 2605-1** Steel Butt-Welding Pipe Fittings; Elbows and Bends with Reduced
- 2609** Steel Butt-Welding Pipe Fittings; Technical Delivery Conditions
- 2615-1** Steel Butt-Welding Pipe Fittings; Tees with Reduced Pressure Factory
- 2615-2** Steel Butt-Welding Pipe Fittings; Reducers for Use at Full Service Pressure
- 2617** Steel Butt-Welding Pipe Fittings; Caps
- 1626** Welded Circular Unalloyed Steel Tubes Subject to Special Requirements Technical Delivery Conditions
- 1629** Seamless Circular Unalloyed Steel Tubes Subject to Special Requirements Technical Delivery Conditions
- 17175** Seamless Tubes of Heat-Resistant Steels Technical Conditions of Delivery
- 50049** Materials Testing Certificates

EN (European) Standards

- 10204** Inspection Documents for Metallic Products
- 10253-1** Butt-Welding Pipe Fittings; Wrought Carbon Steel for General Use and Without Specific Inspection Requirements

NACE Standards

- MR0175** Sulfide Stress Cracking Resistant Metallic Materials for Oilfield Equipment



Lloyd's Register
LRQA

CERTIFICATE SCHEDULE

Cangzhou Pipeline Manufacture Co., Ltd.
Mengcun, Hui Autonomous County,
Cangzhou City, Hebei Province,
People's Republic of China

PED 2014/68/EU Annex I paragraph 4.3 compliance

Products:

Forge flange with pressure up to 1500lb and diameter up to 60".
Hot formed seamless fittings with pressure up to sch160 and diameter up to 24".
Forged fittings with pressure up to 9000lb and diameter up to 4".

Material Grades and Standards:

Standards or specifications	Grades
ASTM A182/A182M	F304, F304L, F316, F316L
ASTM A234/A234M	WPA, WPB, WPC
ASTM A420/A420M	WPL6
ASTM A860/A860 M	WPHY42, 46, 52, 56, 60, 65
ASTM A105	A105
ASTM A106	Gr. A, Gr. B, Gr. C
BS EN 10253-2:2007	P235TR2(1.0255)

Issue: 01

Approval
Certificate No: QAC6048354/A

Original Approval: 13 March 2017

Current Certificate: 13 March 2017

Certificate Expiry: 12 March 2020

Page 1 of 1

Room 2018, Ocean Tower, 550 Yan An Dong Road, Shanghai, P. R. China
This approval is subject to surveillance assessment carried out in accordance with the LRQA assessment and certification procedures.

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Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

Cangzhou Pipeline Manufacture Co., Ltd.
Mengcun, Hui Autonomous County,
Cangzhou City, Hebei Province,
People's Republic of China

Has been assessed against the requirements of Annex I, paragraph 4.3 of the Pressure Equipment Directive 2014/68/EU, and Schedule 1, paragraph 4.3 of the Pressure Equipment Regulations 1999 No. 2001 as amended by S.I. 2002 No. 1267 and S.I. 2015 No. 399 and conforms to the requirements for the products shown below:

Manufacture of carbon steel, stainless steel and alloy steel flange and fitting in accordance with Annex I paragraph 4.3 of PED 2014/68/EU Annex I.

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and Regulations, and continuing to comply with the LRQA Certificate Number: QAC6048354. Products are as listed on the attached schedule.

Approval
Certificate No: QAC6048354/A

Original Approval: 13 March 2017

Current Certificate: 13 March 2017

Certificate Expiry: 12 March 2020

Issued by: Lloyd's Register Quality Assurance (Shanghai) Co., Ltd.

Room 2018, Ocean Tower, 550 Yan An Dong Road, Shanghai, P. R. China
This approval is subject to surveillance assessment carried out in accordance with the LRQA assessment and certification procedures.

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认证证书
兹此证明下列公司之管理体系：
沧州管道制造有限公司
中华人民共和国，河北省沧州市
孟村回族自治县

通过劳氏质量认证有限公司之认证
符合下列管理体系标准：

ISO 9001:2015
GB/T 19001-2016

该管理体系适用于：

出口用碳钢、不锈钢和合金钢的法兰、管件的生产。

首次颁发日期： 2017 年 03 月 12 日
换发证书日期： 2017 年 03 月 12 日
证书有效期至： 2020 年 03 月 11 日

证书编号：QAC6048354

Arundel
劳氏质量认证(上海)有限公司
代表劳氏质量认证有限公司



地址：注册地址： 中华人民共和国，上海市浦东新区 550 号海洋大厦 2018 室
认证注册地址： 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7YS, United Kingdom
劳氏质量认证(上海)有限公司
劳氏质量认证(上海)有限公司

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CERTIFICATE OF APPROVAL

This is to certify that the Management System of:

Cangzhou Pipeline Manufacture Co., Ltd.
Mengcun, Hui Autonomous County,
Cangzhou City, Hebei Province,
People's Republic of China

has been approved by Lloyd's Register Quality Assurance
to the following Management System Standards:

ISO 9001:2015
GB/T 19001-2016

The Management System is applicable to:

**Manufacture of carbon steel, stainless steel and
alloy steel flange and fitting for export.**

Approval Certificate No: QAC6048354
Original Approval: 12 March 2017
Current Certificate: 12 March 2017
Certificate Expiry: 11 March 2020

Arundel
Issued by: Lloyd's Register Quality Assurance (Shanghai) Co., Ltd.
for and on behalf of Lloyd's Register Quality Assurance Limited



Room 2018, Ocean Tower, 550 Yan An Dong Road, Shanghai, P. R. China
For and on behalf of 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7YS, United Kingdom
The certificate can be checked for validity on LRQA website: www.lrqa.com or by scanning the QR code
This document is subject to the terms and conditions of the LRQA certification and management system standards.

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SGS

TEST REPORT

Mechanical & Hardgoods Laboratory

志成國際有限公司
新北市中和區建八路 151 號 1 樓

以下測試樣品係由客戶所提供及確認：
產品名稱：碳鋼桿螺帽螺配件：三通、大小接頭、彎頭

我們依照客戶的要求，根據客戶送交之樣品進行測試結果如下：

- 測試要求：
1. 抗拉強度與伸長率
 2. 抗壓試驗
 3. 金屬材質分析試驗
 4. 耐水壓試驗

測試方法與結果：

---詳網頁---

收樣日期：2019 年 01 月 08 日

測試日期：2019 年 01 月 08 日 ~ 2019 年 01 月 14 日

報告號碼：HL10103/2022
頁數：1 of 4
日期：2022 年 01 月 14 日



本報告係本公司依照國際標準及台灣標準進行測試，並依照 ISO 9001 及 ISO 17025 認證之實驗室進行測試，其測試結果僅供參考，不作為任何法律責任之依據。本報告之測試結果，僅供客戶參考，不作為任何法律責任之依據。本報告之測試結果，僅供客戶參考，不作為任何法律責任之依據。本報告之測試結果，僅供客戶參考，不作為任何法律責任之依據。

台灣檢驗科技股份有限公司
10006 台北市中正區南京西路 151 號 1 樓 127 室
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Member of SGS Group

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TEST REPORT

Mechanical & Hardgoods Laboratory

志成國際有限公司
新北市中和區建八路 151 號 1 樓

以下測試樣品係由客戶所提供及確認：
產品名稱：碳鋼桿螺帽螺配件：三通、大小接頭、彎頭

我們依照客戶的要求，根據客戶送交之樣品進行測試結果如下：

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1. 抗拉強度與伸長率
 2. 抗壓試驗
 3. 金屬材質分析試驗
 4. 耐水壓試驗

測試方法與結果：

---詳網頁---

收樣日期：2019 年 01 月 08 日

測試日期：2019 年 01 月 08 日 ~ 2019 年 01 月 14 日

報告號碼：HL10103/2022
頁數：2 of 4

測試方法與結果：

1. 抗拉強度與伸長率

參考 CNS6445 第 6.1 節之試驗方法

測試機台：SHIMADZU AG-1250KN Autograph Universal Testing Machine

樣品	抗拉強度 (N/mm ²)	伸長率(%) 標距：50 mm
三通	448.4	24.8
大小接頭	647.2	12.0
彎頭	426.5	14.6

2. 抗壓試驗

(a). 將樣品平放於測試機台上。(請參照照片 D)

(b). 逐漸增加向下的荷重於樣品上，直到樣品變形或損壞。

(c). 記錄最大荷重值。

(d). 測試機台：SHIMADZU UH-F500KN X Universal Testing Machine；速率：10 mm/min.

樣品	最大荷重 (kgf)	備註
三通	8275.6	樣品變形。
大小接頭	3956.5	樣品變形。
彎頭	5054.6	樣品變形。

3. 金屬材質分析試驗 (ARL3460 分光儀)

測試樣品：三通

元素	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu
平均值	0.1833	0.1604	0.3157	0.0269	0.0266	0.0099	0.0254	0.0017	0.0014	0.0158

主要成分：Fe

測試樣品：大小接頭

元素	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu
平均值	0.2310	0.1927	0.3947	0.0143	0.0092	0.0059	0.0247	0.0012	0.0007	0.0113

主要成分：Fe

測試樣品：彎頭

元素	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu
平均值	0.1243	0.1402	0.3607	0.0255	0.0164	0.0088	0.0200	0.0013	0.0041	0.0109

主要成分：Fe

本報告係本公司依照國際標準及台灣標準進行測試，並依照 ISO 9001 及 ISO 17025 認證之實驗室進行測試，其測試結果僅供參考，不作為任何法律責任之依據。本報告之測試結果，僅供客戶參考，不作為任何法律責任之依據。本報告之測試結果，僅供客戶參考，不作為任何法律責任之依據。本報告之測試結果，僅供客戶參考，不作為任何法律責任之依據。

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Mechanical & Hardgoods Laboratory

報告號碼: HL10103/2022

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照片 E：測試後（抗壓試驗）



照片 F：測試架設（耐水壓試驗-三通）



照片 G：測試架設（耐水壓試驗・大小接頭）



照片 H：測試架設(耐水壓試驗·大小接頭)

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中國林業建設有限公司	(100-2) 2500-2279	(100-2) 2500-2920	units for sale only	Number of 500 Group
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TEST REPORT

Mechanical & Handgoods Laboratory

報告號碼： HL10103/2022

Wt: 3 of 4

4. 耐水壓試驗

- (a). 測試樣品之開口端封閉由實驗室進行，並保留一進水口並連接水壓試驗設備。(照片 F-H)
- (b). 施加一逐漸加之靜水壓 20 kg/cm^2 ，保持 1 分鐘。
- (c). 目視檢查樣品本體，是否有洩漏或損壞現象。

樣品	測試水壓	保持時間	結果
三通	20 kg/cm ²	1 分鐘	目視檢查樣品本體，無可見之洩漏或損壞現象。
大小接頭	20 kg/cm ²	1 分鐘	目視檢查樣品本體，無可見之洩漏或損壞現象。
彎頭	20 kg/cm ²	1 分鐘	目視檢查樣品本體，無可見之洩漏或損壞現象。

二



照片 A：樣品外觀（三通）



照片 B：樣品外觀（大小接頭）



照片C：裸品外觀（局部）



照片 D: 測試架設 (抗壓試驗)

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中國林業建設集團有限公司	(800-2) 2299-3279	1 (800-2) 2299-2620	www.bce.com.cn	Member of SOG Group
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Hardline Laboratory

TEST REPORT

報告號碼：HL20097/2025
頁數：1 of 4
日期：2025 年 02 月 24 日

志成國際有限公司
新北市中和區建八路 151 號

以下測試樣品係由客戶所提供及確認：

產品名稱：熱浸鍍鋅無縫 40S 碳鋼焊接管配件-彎頭 三通 大小接頭

我們依照客戶的要求，根據客戶送交之樣品進行測試結果如下：

- 測試要求：
1. 抗拉強度與伸長率
 2. 抗壓試驗
 3. 金屬材質分析試驗
 4. 耐水壓試驗

測試方法與結果：---詳附頁---

收樣日期：2025 年 02 月 11 日

測試日期：2025 年 02 月 11 日 ~ 2025 年 02 月 24 日



Signed for and on behalf of
SGS Taiwan Ltd.

蘇國鈞
經理

此報告係本公司依照 ISO 17025 之標準進行測試，並經 ISO 17025 認證合格。凡電子文件之格式與紙本文件一致，且電子文件之內容與紙本文件一致，即視為有效。如有任何疑義，請逕向本公司查詢。本公司對於客戶之隱私及個人資料，均予以嚴格保護，絕不洩露。如有任何疑義，請逕向本公司查詢。本公司對於客戶之隱私及個人資料，均予以嚴格保護，絕不洩露。如有任何疑義，請逕向本公司查詢。

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Revised: 1993.12.1



Hardline Laboratory

TEST REPORT

報告號碼：HL20097/2025
頁數：2 of 4

測試方法與結果：

1. 抗拉強度與伸長率：

參考 CNS 6445 配管用碳鋼鋼管，第 6.1 節之試驗方法

測試機台：SHIMADZU AG-1 250KN Autograph Universal Testing Machine

樣品	厚度範圍	降伏強度 (N/mm ²) (0.2% offset)	抗拉強度 (N/mm ²)	伸長率 (%) 標距：50 mm	CNS 6445 表 4, 12 號 試片之伸長率要求值 (%)
三通	超過 6 mm, 7 mm 以下	341	437	33	28 以上
大小接頭	超過 5 mm, 6 mm 以下	562	640	1	27 以上
彎頭	超過 5 mm, 6 mm 以下	380	460	17	27 以上

2. 抗壓試驗：

- (a). 將樣品平放於測試機台上。(請參考照片 B)
- (b). 逐漸施加向下荷重於樣品上，直到樣品變形或損壞。
- (c). 記錄最大荷重值。
- (d). 測試機台：INSTRON 5982；速率：10 mm/min.
- (e). 加壓平面：300 x 200 (mm) 金屬平盤

樣品	最大荷重 (kgf)	備註
三通	6,101	樣品變形。
大小接頭	2,008	樣品變形。
彎頭	3,724	樣品變形。

3. 金屬材質分析試驗：

測試參考標準：CNS 10006 鐵及鋼之光電式發光光譜分析法

測試使用設備：ARL 3460 Photoelectric Emission Spectrochemical Analyzer

化學成份(%)	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu
三通	0.212	0.185	0.363	0.0239	0.0059	0.013	0.040	0.003	0.003	0.017
大小接頭	0.180	0.211	0.358	0.0128	0.0052	0.015	0.027	0.003	0.004	0.018
彎頭	0.180	0.170	0.363	0.0287	0.0090	0.007	0.029	0.002	0.003	0.008

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Revised: 1993.12.1

TEST REPORT

測試方法與結果：

(a). 測試樣品之開口端密封由實驗室進行，並保留一進水口並連接水壓試驗設備。(照片 D)

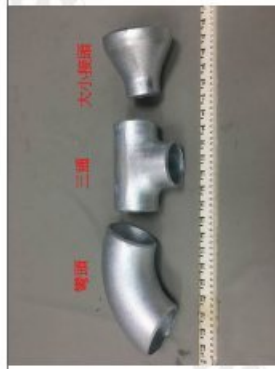
(b). 施加一逐漸增加之靜水壓 50 kgf/cm^2 ，保持 1 分鐘。

(c). 目視檢查樣品本體，是否有洩漏或損壞現象。

樣品	測試水壓	保持時間	結果
三通	50 kgf/cm ²	1 分鐘	目視檢查樣品本體，無可見之洩漏或損壞現象。
大小接頭	50 kgf/cm ²	1 分鐘	目視檢查樣品本體，無可見之洩漏或損壞現象。
彎頭	50 kgf/cm ²	1 分鐘	目視檢查樣品本體，無可見之洩漏或損壞現象。

2. 抗拉強度與伸長率試驗及金屬材質分析試驗係由台灣檢驗科技股份有限公司材料實驗室、台北所進行。

— 照片 —



照片 A: 測試樣品外觀



照片B：測試架設（抗壓試驗）

史學界對本報的評價，往往有失公允。本報創刊於1934年，當時正是抗戰最艱苦的時期，本報在艱苦的環境中，堅持了八年，這在當時的報界中，是難能可貴的。本報在抗戰期間，曾獲得過許多榮譽，如：1937年，本報被評為「抗戰建國」的模範報；1938年，本報被評為「抗戰建國」的模範報；1939年，本報被評為「抗戰建國」的模範報。本報在抗戰期間，曾獲得過許多榮譽，如：1937年，本報被評為「抗戰建國」的模範報；1938年，本報被評為「抗戰建國」的模範報；1939年，本報被評為「抗戰建國」的模範報。本報在抗戰期間，曾獲得過許多榮譽，如：1937年，本報被評為「抗戰建國」的模範報；1938年，本報被評為「抗戰建國」的模範報；1939年，本報被評為「抗戰建國」的模範報。

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No. 127, WuKung Road, (New Taipei Industrial Park) Wuku District, New Taipei City, Taiwan

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SGS

TEST REPORT

報告號碼： HL20097/2025
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— 照片 —



照片 C：測試後樣品外觀（抗壓試驗）



照片 D：測試架設（水壓試驗）

—以下空白—

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Members of the SCSG made