



Piping Prefabrication Experts
Leading Piping-tech Innovator

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SEAMLES STEEL PIPES

MEIDE GROUP Co.,Ltd



MEIDE
GROUP

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01

COMPANY PROFILE

Company Profile

2,600,000+

Annual Capacity
(Ton)

9+

Global Intelligent
Manufacturing Bases

20+

Factories

Founded in 1961, after 6 decades of development, Meide Group has become a large-scale multinational enterprise group specialized in fluid conveying products, electrical fittings, cast pig iron, grout sleeves and other products and related technical services, supplemented by equity investment.

As the leading supplier of fluid conveying products in the world, Meide Group is capable to supply full range of products including carbon steel pipes, valves, malleable iron pipe fittings, grooved pipe fittings & couplings, stainless steel pipes, press fittings, flexible hoses, anti-vibration bracket, etc., with production bases both at home and abroad, covering Iran, Bangkok(Thailand), Dong Nai(Vietnam), Lingang Linyi Weihai, Hebi, Deqing, etc., and the products of the company are well distributed to more than 140 countries and regions.

02

PRODUCTION PROCESS



CERTIFICATIONS

Jinan Mech Piping Technology Co., Ltd.
— The Only UL-Certified Seamless Steel Pipe Manufacturer in China.

We obtained the UL certification in 2024, making us the only manufacturer in China to hold the UL certification for seamless steel pipes.



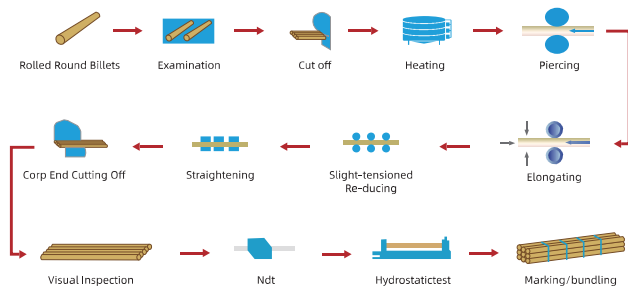
Certification Number:
EX26550

■ Certified range of Steel Sprinkler Pipes according to UL

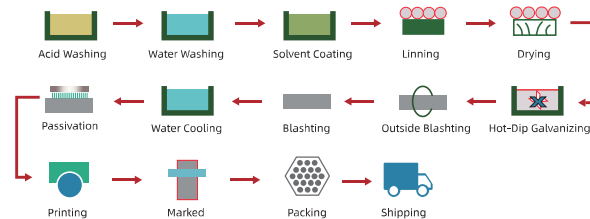
Model	Size
Schedule 40	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 inch



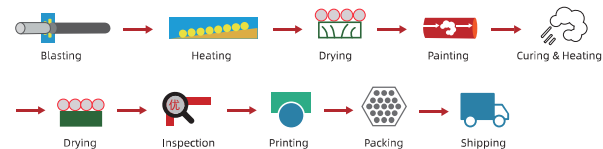
HOT-ROLLING SEAMLESS STEEL PIPE PROCESS FLOWCHART



GALVANIZED STEEL PIPE PROCESS FLOWCHART



PAINTED STEEL PIPE PROCESS FLOWCHART



03

PRODUCT INFORMATION

Seamless Pipe

ASTM A53/API 5L
ASTM 795
API 5L
EN 10216

Seamless Pipe



ASTM A53/API 5L

Interface Form: Plain, Bevel, Groove, Thread

Surface Treatment:



Carbon Steel
Black Raw Pipe



Hot-dip
Galvanized



Epoxy



Painted

DN	Nominal Size	Outside Diameter	SCH40	Nominal Weight (Mass) per Unit Length, Plain End	Test Pressure, *A psi [kPa]	
	(inch)	(mm)	(mm)	kg/m	Grade A	Grade B
6	1/8	10.3	1.73	0.37	700[4800]	700[4800]
8	1/4	13.7	2.24	0.63	700[4800]	700[4800]
10	3/8	17.1	2.31	0.84	700[4800]	700[4800]
15	1/2	21.3	2.77	1.27	700[4800]	700[4800]
20	3/4	26.7	2.87	1.69	700[4800]	700[4800]
25	1	33.4	3.38	2.5	700[4800]	700[4800]
32	1 1/4	42.2	3.56	3.39	1200[8300]	1300[9000]
40	1 1/2	48.3	3.68	4.05	1200[8300]	1300[9000]
50	2	60.3	3.91	5.44	2300[15900]	2500[17200]
65	2 1/2	73	5.16	8.63	2500[17200]	2500[17200]
80	3	88.9	5.49	14.29	2220[15300]	2500[17200]
100	4	114.3	6.02	16.07	1900[13100]	2210[15200]
125	5	141.3	6.55	21.77	1670[11500]	1950[13400]
150	6	168.3	7.11	28.26	1520[10500]	1780[12300]
200	8	219.1	8.18	42.55	1340[9200]	1570[10800]
250	10	273	9.27	60.29	1220[8400]	1430[9900]
300	12	323.8	10.31	79.7	1150[7900]	1340[9200]

DN	Nominal Size	Outside Diameter	SCH80	Nominal Weight (Mass) per Unit Length, Plain End	Test Pressure, *A psi [kPa]	
	(inch)	(mm)	(mm)	kg/m	Grade A	Grade B
6	1/8	10.3	2.41	0.47	850[5900]	850[5900]
8	1/4	13.7	3.02	0.8	850[5900]	850[5900]
10	3/8	17.1	3.2	1.1	850[5900]	850[5900]
15	1/2	21.3	3.73	1.62	850[5900]	850[5900]
20	3/4	26.7	3.91	2.2	850[5900]	850[5900]
25	1	33.4	4.55	3.24	850[5900]	850[5900]
32	1 1/4	42.2	4.85	4.47	1800[12400]	1900[13100]
40	1 1/2	48.3	5.08	5.41	1800[12400]	1900[13100]
50	2	60.3	5.54	7.48	2500[17200]	2500[17200]
65	2 1/2	73	7.01	11.41	2500[17200]	2500[17200]
80	3	88.9	7.62	15.27	2500[17200]	2500[17200]
100	4	114.3	8.56	22.32	2700[18600]	2800[19300]
125	5	141.3	9.52	30.94	2430[16800]	2800[19300]
150	6	168.3	10.97	42.56	2350[16200]	2740[18900]
200	8	219.1	12.7	64.64	2090[14400]	2430[16800]
250	10	273	15.09	95.97	1990[13700]	2320[16000]
300	12	323.8	17.48	132.04	1940[13400]	2270[15700]

DN	Nominal Size	Outside Diameter	SCH160	Nominal Weight (Mass) per Unit Length, Plain End	Test Pressure, *A psi [kPa]	
	(inch)	(mm)	(mm)	kg/m	Grade A	Grade B
6	1/8	10.3				
8	1/4	13.7				
10	3/8	17.1				
15	1/2	21.3	4.78	1.95	900[6200]	900[6200]
20	3/4	26.7	5.56	2.9	950[6500]	950[6500]
25	1	33.4	6.35	4.24	950[6500]	950[6500]
32	1 1/4	42.2	6.35	5.61	1900[13100]	2000[13800]
40	1 1/2	48.3	7.14	7.25	1950[13400]	2050[14100]
50	2	60.3	8.74	13.44	2500[17200]	2500[17200]
65	2 1/2	73	9.52	14.9	2500[17200]	2500[17200]
80	3	88.9	11.13	21.35	2500[17200]	2500[17200]
100	4	114.3	13.49	33.54	2800[19300]	2800[19300]
125	5	141.3	15.88	49.11	2800[19300]	2800[19300]
150	6	168.3	18.26	67.56	2800[19300]	2800[19300]
200	8	219.1	23.01	111.27	2800[19300]	2800[19300]
250	10	273	28.57	172.21	2800[19300]	2800[19300]
300	12	323.8	33.32	238.63	2800[19300]	2800[19300]

- Note | 1. Wall thickness tolerance: -12.5%
2. Allowable deviation of outer diameter: DN40 below ± 0.4 mm DN50 above $\pm 1\%$ D

Chemical Composition %									
	C(Max)	Mn(Max)	P(Max)	S(Max)	Gu(Max)	Ni(Max)	Cr(Max)	Mo(Max)	V(Max)
A	0.25	0.95	0.050	0.045	0.40	0.40	0.40	0.15	0.08
B	0.30	1.20	0.050	0.045	0.40	0.40	0.40	0.15	0.08

Mechanical property			
	Yield Strength Mpa (psi)	Tensile Strength Mpa (psi)	Elongation%
A	≥ 205 (30000)	≥ 330 (48000)	≥ 29.5
B	≥ 240 (35000)	≥ 415 (60000)	≥ 29.5



Seamless Pipe



ASTM 795

Interface Form: Plain, Bevel, Groove, Thread

Surface Treatment:



Carbon Steel
Black Raw Pipe



Hot-dip
Galvanized



Epoxy



Painted

Schedule	Nominal Size	Outside Diameter	Wall Thickness	Mass of Black Tube		Weight of Black Tube	
	(mm)	(mm)	(mm)	Plain End (kg/m)	(PSI)	(kPa)	
Schedule 10	1/2"	21.3	2.77	1.27	700	4800	
	3/4"	26.7	2.87	1.69	700	4800	
	1"	33.4	3.38	2.5	700	4800	
	1 1/4"	42.2	3.56	3.39	1000	6900	
	1 1/2"	48.3	3.68	4.05	1000	6900	
	2"	60.3	3.91	5.45	1000	6900	
	2 1/2"	73	5.16	8.64	1000	6900	
	3"	88.9	5.49	11.29	1000	6900	
	4"	114.3	6.02	16.09	1200	8300	
	5"	141.3	6.55	21.79	1200	8300	
	6"	168.3	7.11	28.29	1200	8300	
	8"	219.1	7.04	36.82	1200	8300	
	10"	273	7.8	51.05	1000	6900	

Seamless Pipe

API5L

Schedule	Nominal Size (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Mass of Black Tube Plain End (kg/m)	Weight of Black Tube	
					(PSI)	(kPa)
Schedule 40	1/2"	21.3	2.77	1.27	700	4800
	3/4"	26.7	2.87	1.69	700	4800
	1"	33.4	3.38	2.5	700	4800
	1 1/4"	42.2	3.56	3.39	1000	6900
	1 1/2"	48.3	3.68	4.05	1000	6900
	2"	60.3	3.91	5.45	1000	6900
	2 1/2"	73	5.16	8.64	1000	6900
	3"	88.9	5.49	11.29	1000	6900
	4"	114.3	6.02	16.09	1200	8300
	5"	141.3	6.55	21.79	1200	8300
	6"	168.3	7.11	28.29	1200	8300
	8"	219.1	7.04	36.82	1200	8300
	10"	273	7.8	51.05	1000	6900

- Note** | 1. Wall thickness tolerance: -12.5%
2. Allowable deviation of outer diameter: DN40 or less $\pm 0.4\text{mm}$; DN50 $\pm 1\%$
3. Average zinc layer thickness $\geq 550\text{g/m}^2$

Specification DN	Specification INCH	Outside Diameter	SCH20	SCH30	STD	SCH40	SCH60	XS	SCH80	SCH100	SCH120	SCH140	SCH160	XSS
615	1/2	21.3	/	2.41	2.77	2.77	/	3.73	3.73	/	/	/	4.78	7.47
20	3/4	26.7	/	2.41	2.87	2.87	/	3.91	3.91	/	/	/	5.56	7.82
25	1	33.4	/	2.9	3.38	3.38	/	4.55	4.55	/	/	/	6.35	9.09
32	1 1/4	42.2	/	2.97	3.56	3.56	/	4.85	4.85	/	/	/	6.35	9.7
40	1 1/2	48.3	/	3.18	3.68	3.68	/	5.08	5.08	/	/	/	7.14	10.15
50	2	60.3	/	3.18	3.91	3.91	/	5.54	5.54	/	/	/	8.74	11.07
65	2 1/2	73.0	/	4.78	5.16	5.16	/	7.01	7.01	/	/	/	9.53	14.02
80	3	88.9	/	4.78	5.49	5.49	/	7.62	7.62	/	/	/	11.13	15.24
90	3 1/2	101.6	/	4.78	5.74	5.74	/	8.08	8.08	/	/	/	/	/
100	4	114.3	/	4.78	6.02	6.02	/	8.56	8.56	/	11.13	/	13.49	17.12
125	5	141.3	/	/	6.55	6.55	/	9.53	9.53	/	12.7	/	15.88	19.05
150	6	168.3	4.5	/	7.11	7.11	/	10.97	10.97	/	14.27	/	18.26	21.95
200	8	219.1	6.35	7.04	8.18	8.18	10.31	12.7	12.7	15.09	18.26	20.62	23.01	22.23
250	10	273.0	6.35	7.8	9.27	9.27	12.7	12.7	15.09	18.26	21.44	25.4	28.58	25.4
300	12	323.8	6.35	8.38	9.53	10.31	14.27	12.7	17.48	21.44	25.4	28.58	33.32	25.4
350	14	355.6	7.92	9.53	11.13	15.09	12.7	19.05	23.83	27.79	31.75	35.71	/	/
400	16	406.4	7.92	9.53	12.7	16.66	12.7	21.44	26.19	30.96	36.53	40.49	/	/
450	18	457.2	7.92	11.13	9.53	14.27	19.05	12.7	23.83	29.36	34.93	39.67	45.24	/
500	20	508.0	9.53	12.7	9.53	15.09	20.62	12.7	26.19	32.54	38.1	44.45	50.01	/
550	22	558.8	9.53	12.7	9.53	/	22.23	12.7	28.58	34.93	41.28	47.63	53.98	/
600	24	609.6	9.53	14.27	9.53	17.48	24.61	12.7	30.96	38.89	46.02	52.37	59.54	/
650	26	660.4	12.7	/	9.53	/	/	12.7	/	/	/	/	/	/
700	28	711.2	12.7	15.88	9.53	/	/	12.7	/	/	/	/	/	/
750	30	762.0	12.7	15.88	9.53	/	/	12.7	/	/	/	/	/	/
800	32	812.8	12.7	15.88	9.53	17.48	/	12.7	/	/	/	/	/	/
850	34	863.6	12.7	15.88	9.53	17.48	/	12.7	/	/	/	/	/	/
900	36	914.4	12.7	15.88	9.53	19.05	/	12.7	/	/	/	/	/	/
950	38	965.2	/	/	9.53	/	/	12.7	/	/	/	/	/	/
1000	40	1016.0	/	/	9.53	/	/	12.7	/	/	/	/	/	/
1050	42	1066.8	/	/	9.53	/	/	12.7	/	/	/	/	/	/
1100	44	1117.6	/	/	9.53	/	/	12.7	/	/	/	/	/	/
1150	46	1168.4	/	/	9.53	/	/	12.7	/	/	/	/	/	/
1200	48	1219.2	/	/	9.53	/	/	12.7	/	/	/	/	/	/

Chemical components and mechanical property PSL 1

	Chemical Composition %			
	C(Max)	Mn(Max)	P(Max)	S(Max)
L175 or A25	0.21	0.60	0.030	0.030
L175P or A25P	0.21	0.60	0.045-0.060	0.030
L210 or A	0.22	0.90	0.030	0.030
L245 or B	0.28	1.20	0.030	0.030
L290 or X42	0.28	1.30	0.030	0.030
L320 or X46	0.28	1.40	0.030	0.030
L360 or X52	0.28	1.40	0.030	0.030
L390 or X56	0.28	1.40	0.030	0.030
L415 or X60	0.28	1.40	0.030	0.030
L450 or X65	0.28	1.40	0.030	0.030
L485 or X70	0.28	1.40	0.030	0.030

	Mechanical property	
	Yield Strength Mpa (psi)	Tensile Strength Mpa (psi)
L175 or A25	175 (25400)	310 (45000)
L175P or A25P	175 (25400)	310 (45000)
L210 or A	210 (30500)	335 (48600)
L245 or B	245 (35500)	415 (60200)
L290 or X42	290 (42100)	415 (60200)
L320 or X46	320 (46400)	435 (63100)
L360 or X52	360 (52200)	460 (66700)
L390 or X56	390 (56600)	490 (71100)
L415 or X60	415 (60200)	520 (75400)
L450 or X65	450 (65300)	535 (77600)
L485 or X70	485 (70300)	570 (82700)

Chemical Compositions and mechanical property PSL 2

	Chemical Composition %				
	C(Max)	Si(Max)	Mn(Max)	P(Max)	S(Max)
L245N or BN	0.24	0.40	1.20	0.025	0.015
L290N or X42N	0.24	0.40	1.20	0.025	0.015
L320N or X46N	0.24	0.40	1.40	0.025	0.015
L360N or X52N	0.24	0.45	1.40	0.025	0.015
L390N or X56N	0.24	0.45	1.40	0.025	0.015
L415N or X60N	0.24	0.45	1.40	0.025	0.015
L245Q or BQ	0.18	0.45	1.40	0.025	0.015
L290Q or X42Q	0.18	0.45	1.40	0.025	0.015
L320Q or X46Q	0.18	0.45	1.40	0.025	0.015
L360Q or X52Q	0.18	0.45	1.50	0.025	0.015
L390Q or X56Q	0.18	0.45	1.50	0.025	0.015
L415Q or X60Q	0.18	0.45	1.70	0.025	0.015
L450Q or X65Q	0.18	0.45	1.70	0.025	0.015
L485Q or X70Q	0.18	0.45	1.80	0.025	0.015
L555Q or X80Q	0.18	0.45	1.90	0.025	0.015

	Mechanical property			
	Yield Strength Mpa (psi)		Tensile Strength Mpa (psi)	
	min	max	min	max
L245N or BN	245 (35500)	450 (65300)	415 (60200)	655 (95000)
L290N or X42N	290 (42100)	495 (71800)	415 (60200)	655 (95000)
L320N or X46N	320 (46400)	525 (76900)	435 (63100)	655 (95000)
L360N or X52N	360 (52200)	530 (76900)	460 (66700)	760 (110200)
L390N or X56N	390 (56600)	545 (79000)	490 (71100)	760 (110200)
	415 (60200)	565 (81900)	520 (75400)	760 (110200)
L245Q or BQ	245 (35500)	450 (65300)	415 (60200)	655 (95000)
L290Q or X42Q	290 (42100)	495 (71800)	415 (60200)	655 (95000)
L320Q or X46Q	320 (46400)	525 (76900)	435 (63100)	655 (95000)
L360Q or X52Q	360 (52200)	530 (76900)	460 (66700)	760 (110200)
L390Q or X56Q	390 (56600)	545 (79000)	490 (71100)	760 (110200)
L415Q or X60Q	415 (60200)	565 (81900)	520 (75400)	760 (110200)
L450Q or X65Q	450 (65300)	600 (87000)	535 (77600)	760 (110200)
L485Q or X70Q	485 (70300)	635 (92100)	570 (82700)	760 (110200)
L555Q or X80Q	555 (80500)	705 (102300)	625 (90600)	825 (119700)

EN10216

[illegible]

	Chemical Composition %									
	C(Max)	Si(Max)	Mn(Max)	P(Max)	S(Max)	Cr(Max)	Mo(Max)	Ni(Max)	Gu(Max)	V(Max)
P195TR1	0.13	0.35	0.70	0.025	0.020	0.30	0.08	0.30	0.30	0.02
P195TR2	0.13	0.35	0.70	0.025	0.020	0.30	0.08	0.30	0.30	0.02
P235TR1	0.16	0.35	1.20	0.025	0.020	0.30	0.08	0.30	0.30	0.02
P235TR2	0.16	0.35	1.20	0.025	0.020	0.30	0.08	0.30	0.30	0.02
P265TR1	0.20	0.40	1.40	0.025	0.020	0.30	0.08	0.30	0.30	0.02
P265TR2	0.20	0.40	1.40	0.025	0.020	0.30	0.08	0.30	0.30	0.02

Mechanical property						
	Upper Yield Strength (Mpa)			Tensile Strength Mpa (psi)	Elongation after fracture	
	T≤16	16<T≤40	40<T≤60		L	t
P195TR1	195	185	175	320to440	27	25
P195TR2	195	185	175	320to440	27	25
P235TR1	235	225	215	360to500	25	23
P235TR2	235	225	215	360to500	25	23
P265TR1	265	255	245	410to570	21	19
P265TR2	265	255	245	410to570	21	19



04

PROJECT CASES

PROJECT CASES

MECH brand products of Meide Group serve global users and are widely applied in famous landmark building projects around the world.

- New World Trade Center, New York
- Shanghai Center
- Shenzhen Ping An International Finance Center
- Shanghai Pudong New Airport
- Beijing New Airport
- Beijing-Shanghai High-speed Rail
- Jiqing High Speed Rail
- Lunan High Speed Rail
- Shanghai Metro
- Shenzhen Metro
- Guangzhou Metro
- National Grid High Voltage Line
- Ningxia-Zhejiang UHV Transmission Line
- Coal to Gas Project in Beijing-Tianjin-Hebei Region
- Shandong Province Coal to Gas Project
- Shandong Golden Guyun Lake International Golf Club
- Wynn Stadium, Las Vegas
- Condwell Stadium
- Cummins Limited
- Weichai Holding Group Co., Ltd.

Shanghai Center



Beijing New Airport



Suzhou Central Plaza



Shenzhen Ping An International Finance Center

New World Trade Center, New York



Wynn Stadium, Las Vegas



Guangzhou International Finance Center



Condwell Stadium



Chengdu Vientiane City, Sichuan



Jinan Greenland



Beijing-Shanghai High-speed Rail



Lunan High Speed Rail

