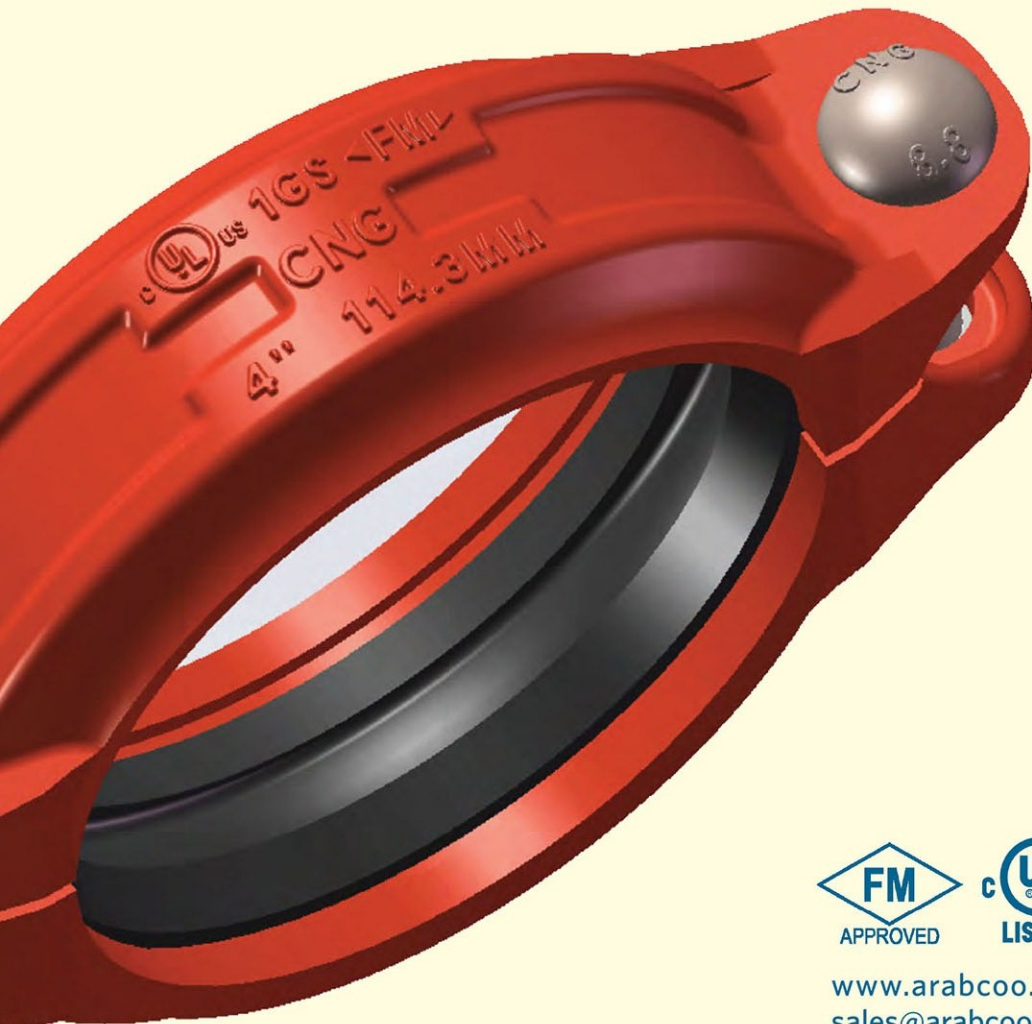
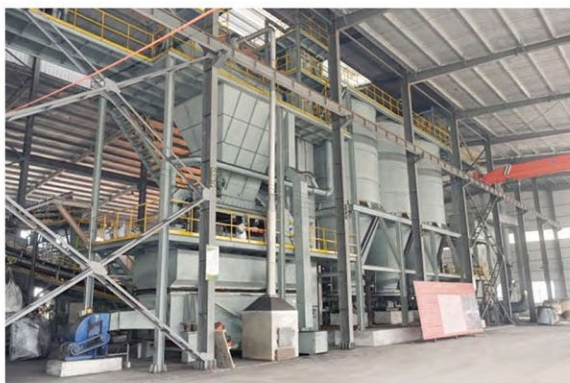


GROOVED COUPLING AND FITTINGS



www.arabcoo.com
sales@arabcoo.com

Production facilities



Inspection instruments



Company profile

CNG (China-Groove) brand Grooved products are developed and manufactured by Hebei DIKAI Piping Products Co., Ltd., which is established in 2002 and most professional manufacturing enterprise of piping products. DIKAI is the one of first grooved products manufacturer in China, equipped with most advanced casting, milling, painting and assembling facilities, including 3 DISA automatic molding line, semi-automatic casting machine, precision casting line, large size floor molding system and relevant comprehensive testing equipment.

- ◆ Company registered capital with 5 million US Dollars, total investment over 80 million USD;
- ◆ Owns 2 casting factories, one rubber milling facility and 2 assembling centers;
- ◆ Over 500 employees, annual casting production capacity 100,000 tons;
- ◆ Company total floor space over 110,000m², annual turnover exceeds 120 million USD.

Certificates & approvals:

CNG (China-Groove) brand Grooved products are designed, manufactured, managed strictly by ISO quality management system under Hebei DIKAI Piping Products Co., Ltd.

- ◆ ISO 9001:2008 Quality Management System certificated
- ◆ ISO 14001 Environmental Management System certificated
- ◆ OHSAS 18001 Occupational Health and Safety Assessment Series certificated
- ◆ cULus (UL/cUL) listed and FM approved
- ◆ VdS and LPC approvals under process
- ◆ Products liability is insured with CPIC globally.



CNG Products Features

Housing

Material: Ductile cast iron conforming to ASTM A-536, Grade 65-45-12.

Surface Finish:

Standard: Epoxy powder coating

Optional: Galvanized (Zinc Plated、HDG)

Dip painted

Surface Color: Variable colors for choice

Bolts and Nuts

Heat treated and electro galvanized bolts with oval neck, and heavy duty hexagon nuts.

Track head meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

Rubber Gasket

Standard:

Grade "E" EPDM (Color code: Green stripe)

Temperature range -30°F to +230°F (-34°C to +110°C). Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. NOT RECOMMENDED FOR PETROLEUM SERVICES.

Optional:

Grade "T" Nitrile NBR (Color code: Orange stripe)

Temperature range -20°F to +180°F (-29°C to +82°C). Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F (+66°C) or for hot dry air over +140°F (+60°C).

Grade "O" Fluoroelastomer (Color code: Blue stripe)

Temperature range +20°F to +300°F (-7°C to +149°C). Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons.

Grade "L" Silicone (Color code: Red stripe)

Temperature range -30°F to +350°F (-34 to +177°C). Recommended for dry heat, air without hydrocarbons to +350°F (+177°C) and certain chemical services. FIT products silicone gaskets are recommended for fire protection dry systems, all systems operating below 0°F (-18°C), plus dry heat, air without hydrocarbons, certain chemical services, and water to +160°F (71°C).

Grooved Couplings

Style 1GS Rigid Coupling

CNG style 1GS is a light weight rigid coupling for rigid sprinkler system. Style 1GS is especially designed to provide a rigid, locked-in connection to meet the specific demands of rigid design steel pipe.



Size		Max. Work Pressure	Size		Max. Work Pressure
DN / Inches	mm	Bar / PSI	DN / Inches	mm	Bar / PSI
32 / 1 ¹ / ₄ "	42.4	52 / 750	80 / 3"	88.9	38 / 550
40 / 1 ¹ / ₂ "	48.3	52 / 750	100 / 4"	114.3	35 / 500
50 / 2"	60.3	42 / 600	150 / 6"	165.1	35 / 500
65 / 2 ¹ / ₂ "	73.0	38 / 550	150 / 6"	168.3	35 / 500
65 / 2 ¹ / ₂ "	76.1	38 / 550	200 / 8"	219.1	25 / 350

Style 1N Flexible Coupling

CNG style 1N couplings are available where moderate pressures are expected or weight considerations are a factor. Designed to provide allowance for controlled pipe movement caused by thermal changes, settling or seismic action, as well as noise and vibration.



Size		Max. Work Pressure	Size		Max. Work Pressure
DN / Inches	mm	Bar / PSI	DN / Inches	mm	Bar / PSI
50 / 2"	60.3	42 / 600	100 / 4"	114.3	35 / 500
65 / 2 ¹ / ₂ "	73.0	38 / 550	150 / 6"	165.1	35 / 500
65 / 2 ¹ / ₂ "	76.1	38 / 550	150 / 6"	168.3	35 / 500
80 / 3"	88.9	38 / 550	200 / 8"	219.1	25 / 350

Style 1NH Heavy Duty Flexible Coupling

CNG style 1NR is a coupling designed with cross-ribbed construction, to provide a strong pipe connection for high pressure piping systems or pipeline under high bending moments.



Size		Max. Work Pressure	Size		Max. Work Pressure
DN / Inches	mm	Bar / PSI	DN / Inches	mm	Bar / PSI
25 / 1"	33.4	100 / 1500	100 / 4"	114.3	69 / 1000
32 / 1 ¹ / ₄ "	42.4	86 / 1250	125 / 5"	139.7	69 / 1000
40 / 1 ¹ / ₂ "	48.3	86 / 1250	125 / 5"	141.3	69 / 1000
50 / 2"	60.3	86 / 1250	150 / 6"	165.1	69 / 1000
65 / 2 ¹ / ₂ "	73.0	69 / 1000	150 / 6"	168.3	69 / 1000
65 / 2 ¹ / ₂ "	76.1	69 / 1000	200 / 8"	219.1	55 / 800
80 / 3"	88.9	69 / 1000	250 / 10"	273.0	55 / 800
			300 / 12"	323.9	55 / 800

Style 1NR Reducing Coupling

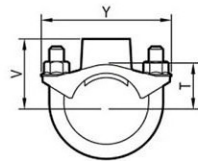
CNG style 1NR Reducing Coupling permits a directly connection between two different pipe sizes, eliminates the need for two couplings and a reducing fitting.



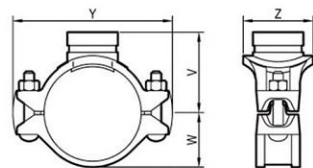
Size		Max. Work Pressure	Size		Max. Work Pressure
mm	mm	Bar / PSI	mm	mm	Bar / PSI
48.3 X 42.4	114.3 X 73.0	21 / 300	114.3 X 73.0	114.3 X 73.0	21 / 300
60.3 X 42.4	114.3 X 76.1	21 / 300	114.3 X 76.1	114.3 X 76.1	21 / 300
60.3 X 48.3	114.3 X 88.9	21 / 300	114.3 X 88.9	114.3 X 88.9	21 / 300
73.0 X 60.3	165.1 X 114.3	21 / 300	165.1 X 114.3	165.1 X 114.3	21 / 300
76.1 X 60.3	168.3 X 114.3	21 / 300	168.3 X 114.3	168.3 X 114.3	21 / 300
88.9 X 60.3	219.1 X 165.1	21 / 300	219.1 X 165.1	219.1 X 165.1	21 / 300
88.9 X 73.0	219.1 X 168.3	21 / 300	219.1 X 168.3	219.1 X 168.3	21 / 300
88.9 X 76.1		21 / 300			

Mechanical Tee

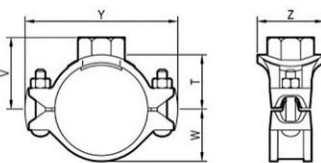
Style 3L U-Bolt Mechanical Tee (Female Threaded)



Style 3G Mechanical Tee (Grooved)

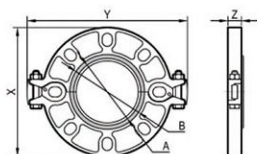


Style 3J Mechanical Tee (Female Threaded)



Main Run		Outlet		Max. Work Pressure	Hole Size		
DN / In.	mm	DN / In.	mm	Bar / PSI	3L mm / In.	3G mm / In.	3J mm / In.
32 / 1 1/4"	42.4	15 / 1/2"	21.3	21 / 300	30.5 / 1.2	N/A	N/A
32 / 1 1/4"	42.4	20 / 3/4"	26.9	21 / 300	30.5 / 1.2	N/A	N/A
32 / 1 1/4"	42.4	25 / 1"	33.7	21 / 300	30.5 / 1.2	N/A	N/A
40 / 1 1/2"	48.3	15 / 1/2"	21.3	21 / 300	30.5 / 1.2	N/A	N/A
40 / 1 1/2"	48.3	20 / 3/4"	26.9	21 / 300	30.5 / 1.2	N/A	N/A
40 / 1 1/2"	48.3	25 / 1"	33.7	21 / 300	30.5 / 1.2	N/A	N/A
50 / 2"	60.3	15 / 1/2"	21.3	21 / 300	30.5 / 1.2	N/A	N/A
50 / 2"	60.3	20 / 3/4"	26.9	21 / 300	30.5 / 1.2	N/A	N/A
50 / 2"	60.3	25 / 1"	33.7	21 / 300	30.5 / 1.2	N/A	N/A
65 / 2 1/2"	73.0	25 / 1"	33.7	35 / 500	N/A	N/A	38 / 1.5
65 / 2 1/2"	73.0	32 / 1 1/4"	42.4	35 / 500	N/A	45 / 1.75	45 / 1.75
65 / 2 1/2"	73.0	40 / 1 1/2"	48.3	35 / 500	N/A	51 / 2	51 / 2
65 / 2 1/2"	76.1	25 / 1"	33.7	35 / 500	N/A	N/A	38 / 1.5
65 / 2 1/2"	76.1	32 / 1 1/4"	42.4	35 / 500	N/A	45 / 1.75	45 / 1.75
65 / 2 1/2"	76.1	40 / 1 1/2"	48.3	35 / 500	N/A	51 / 2	51 / 2
80 / 3"	88.9	25 / 1"	33.7	35 / 500	N/A	N/A	38 / 1.5
80 / 3"	88.9	32 / 1 1/4"	42.4	35 / 500	N/A	45 / 1.75	45 / 1.75
80 / 3"	88.9	40 / 1 1/2"	48.3	35 / 500	N/A	51 / 2	51 / 2
80 / 3"	88.9	50 / 2"	60.3	35 / 500	N/A	64 / 2.5	N/A
100 / 4"	114.3	25 / 1"	33.7	35 / 500	N/A	N/A	38 / 1.5
100 / 4"	114.3	32 / 1 1/4"	42.4	35 / 500	N/A	45 / 1.75	45 / 1.75
100 / 4"	114.3	40 / 1 1/2"	48.3	35 / 500	N/A	51 / 2	51 / 2
100 / 4"	114.3	50 / 2"	60.3	35 / 500	N/A	64 / 2.5	64 / 2.5
100 / 4"	114.3	65 / 2 1/2"	73.0	35 / 500	N/A	70 / 2.75	70 / 2.75
100 / 4"	114.3	65 / 2 1/2"	76.1	35 / 500	N/A	70 / 2.75	70 / 2.75
150 / 6"	165.1	25 / 1"	33.7	35 / 500	N/A	N/A	38 / 1.5
150 / 6"	165.1	32 / 1 1/4"	42.4	35 / 500	N/A	N/A	45 / 1.75
150 / 6"	165.1	40 / 1 1/2"	48.3	35 / 500	N/A	51 / 2	51 / 2
150 / 6"	165.1	50 / 2"	60.3	35 / 500	N/A	64 / 2.5	64 / 2.5
150 / 6"	165.1	65 / 2 1/2"	76.1	35 / 500	N/A	70 / 2.75	70 / 2.75
150 / 6"	165.1	80 / 3"	88.9	35 / 500	N/A	89 / 3.5	N/A
150 / 6"	165.1	100 / 4"	114.3	35 / 500	N/A	114.3 / 4.5	N/A
150 / 6"	168.3	25 / 1"	33.7	35 / 500	N/A	N/A	38 / 1.5
150 / 6"	168.3	32 / 1 1/4"	42.4	35 / 500	N/A	N/A	45 / 1.75
150 / 6"	168.3	40 / 1 1/2"	48.3	35 / 500	N/A	51 / 2	51 / 2
150 / 6"	168.3	50 / 2"	60.3	35 / 500	N/A	64 / 2.5	64 / 2.5
150 / 6"	168.3	65 / 2 1/2"	73.0	35 / 500	N/A	70 / 2.75	70 / 2.75
150 / 6"	168.3	80 / 3"	88.9	35 / 500	N/A	89 / 3.5	N/A
150 / 6"	168.3	100 / 4"	114.3	35 / 500	N/A	114.3 / 4.5	N/A
200 / 8"	219.1	50 / 2"	60.3	35 / 500	N/A	64 / 2.5	64 / 2.5
200 / 8"	219.1	65 / 2 1/2"	73.0	35 / 500	N/A	70 / 2.75	70 / 2.75
200 / 8"	219.1	65 / 2 1/2"	76.1	35 / 500	N/A	70 / 2.75	70 / 2.75
200 / 8"	219.1	80 / 3"	88.9	35 / 500	N/A	89 / 3.5	N/A
200 / 8"	219.1	100 / 4"	114.3	35 / 500	N/A	114.3 / 4.5	N/A

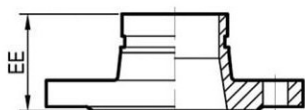
Flange Adaptors



Style "321" Split Flange Plate

CNG style 321 Split Flange Plate is designed with oral flange holes to suit both ANSI Class 125 / 150 and PN16 flange connection.

Size		Max. Work Pressure	Size		Max. Work Pressure
DN / Inches	mm	Bar / PSI	DN / Inches	mm	Bar / PSI
65 / 2½"	73.0	21 / 300	100 / 4"	114.3	21 / 300
65 / 2½"	76.1	21 / 300	150 / 6"	165.1	21 / 300
80 / 3"	88.9	21 / 300	150 / 6"	168.3	21 / 300
			200 / 8"	219.1	21 / 300



Style "321G" Flange Adaptor Nipple

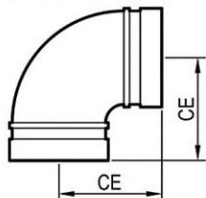
CNG style 321G Flange Adaptor Nipple is designed with oral flange holes to suit both ANSI Class 125 / 150 and PN16 flange connection. Recommended for heavy load pipeline or pump outlet connection.

Size		EE	Size		EE
DN / Inches	mm	mm / Inches	mm / Inches	mm	mm / Inches
50 / 2"	60.3	70 / 2.75	125 / 5"	141.3	80 / 3.15
65 / 2½"	73.0	70 / 2.75	150 / 6"	165.1	100 / 3.95
65 / 2½"	76.1	70 / 2.75	150 / 6"	168.3	100 / 3.95
80 / 3"	88.9	70 / 2.75	200 / 8"	219.1	100 / 3.95
100 / 4"	114.3	80 / 3.15	250 / 10"	273.0	150 / 5.9
125 / 5"	139.7	80 / 3.15	300 / 12"	323.9	150 / 5.9

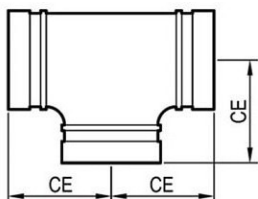


Fittings

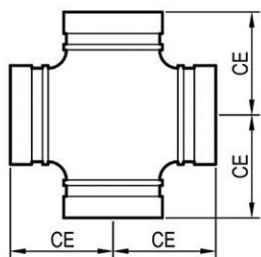
Style 90S 90° Short Elbow



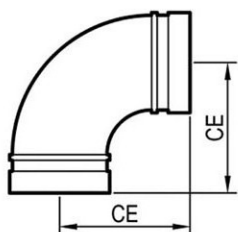
Style 130S Short Tee



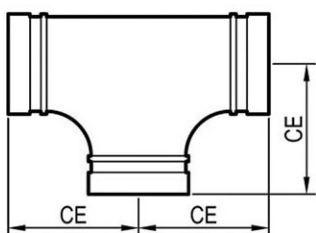
Style 180S Short Cross



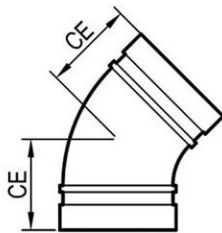
Style 90 90° Standard Elbow



Style 130 Standard Tee



Style 120 45° Elbow



Style 300 End Cap



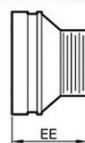
Size		Style 90S	Style 130S	Style 180S	Style 90	Style 130	Style 120	Style 300
		CE	CE	CE	CE	CE	CE	T
DN	mm	mm	mm	mm	mm	mm	mm	mm
Inches		Inches	Inches	Inches	Inches	Inches	Inches	Inches
25	33.7	N/A	N/A	N/A	57	57	44	34
1"					2.25	2.25	1.75	1.35
32	42.4	N/A	N/A	N/A	70	70	44	34
1 1/4"					2.75	2.75	1.75	1.35
40	48.3	N/A	N/A	N/A	70	70	44	34
1 1/2"					2.75	2.75	1.75	1.35
50	60.3	70	70	70	83	83	51	38
2"		2.75	2.75	2.75	3.25	3.25	2.00	1.50
65	73.0	76	76	76	95	95	57	38
2 1/2"		3.00	3.00	3.00	3.75	3.75	2.25	1.50
65	76.1	76	76	76	95	95	57	38
2 1/2"		3.00	3.00	3.00	3.75	3.75	2.25	1.50
80	88.9	86	86	86	108	108	64	38
3"		3.40	3.40	3.40	4.25	4.25	2.50	1.50
100	114.3	102	102	102	127	127	76	51
4"		4.00	4.00	4.00	5.00	5.00	3.00	2.00
125	139.7	N/A	N/A	N/A	140	140	83	51
5"					5.50	5.50	3.25	2.00
125	141.3	N/A	N/A	N/A	140	140	83	51
5"					5.50	5.50	3.25	2.00
150	165.1	140	140	140	165	165	89	53
6"		5.50	5.50	5.50	6.50	6.50	3.50	2.10
150	168.3	140	140	140	165	165	89	53
6"		5.50	5.50	5.50	6.50	6.50	3.50	2.10
200	219.1	173	173	173	197	197	108	70
8"		6.80	6.80	6.80	7.75	7.75	4.25	2.75
250	273	N/A	N/A	N/A	229	229	121	76
10"					9.00	9.00	4.75	3.00
300	323.9	N/A	N/A	N/A	254	254	133	83
12"					10.00	10.00	5.25	3.25

Reducing Fittings

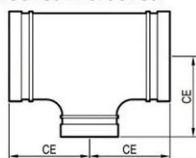
Style 240
Concentric Reducing
Grooved X Grooved



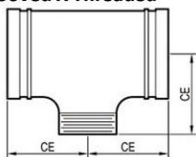
Style 240N
Concentric Reducing
Grooved X Threaded



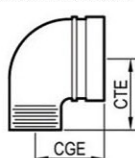
Style 131
Reducing Tee
Grooved X Grooved



Style 131N
Reducing Tee
Grooved X Threaded



Style 90RT
90° Reducing Elbow
Grooved X Threaded



Main Run		Outlet		Style 240 EE	Style 240N EE	Style 131 CE	Style 131N CE	Style 90RT C to GE
DN / In.	mm	DN / In.	mm	mm / In.	mm / In.	mm / In.	mm / In.	mm / In.
32 / 1 1/4"	42.4	15 / 1/2"	21.3	N/A	N/A	N/A	N/A	48 / 1.90
32 / 1 1/4"	42.4	20 / 3/4"	26.9	N/A	N/A	N/A	N/A	51 / 2.00
32 / 1 1/4"	42.4	25 / 1"	33.7	64 / 2.50	64 / 2.50	N/A	N/A	55 / 2.17
40 / 1 1/2"	48.3	15 / 1/2"	21.3	N/A	N/A	N/A	N/A	48 / 1.90
40 / 1 1/2"	48.3	20 / 3/4"	26.9	N/A	N/A	N/A	N/A	51 / 2.00
40 / 1 1/2"	48.3	25 / 1"	33.7	64 / 2.50	64 / 2.50	N/A	N/A	55 / 2.17
40 / 1 1/2"	48.3	32 / 1 1/4"	42.4	64 / 2.50	64 / 2.50	N/A	N/A	N/A
50 / 2"	60.3	15 / 1/2"	21.3	N/A	N/A	N/A	N/A	48 / 1.90
50 / 2"	60.3	20 / 3/4"	26.9	N/A	N/A	N/A	N/A	51 / 2.00
50 / 2"	60.3	25 / 1"	33.7	64 / 2.50	64 / 2.50	N/A	N/A	55 / 2.17
50 / 2"	60.3	32~40 / 1 1/4"~1 1/2"	42.4~48.3	64 / 2.50	64 / 2.50	N/A	N/A	N/A
65 / 2 1/2"	73.0	25~50 / 1"~2"	33.7~60.3	64 / 2.50	64 / 2.50	76 3.00	76 3.00	N/A
65 / 2 1/2"	76.1	25~50 / 1"~2"	33.7~60.3	64 / 2.50	64 / 2.50	76 3.00	76 3.00	N/A
80 / 3"	88.9	25~65 / 1"~2 1/2"	33.7~76.1	64 / 2.50	64 / 2.50	86 3.4	86 3.4	N/A
100 / 4"	114.3	25~80 / 1"~3"	33.7~88.9	76 / 3.00	76 / 3.00	102 4.00	102 4.00	N/A
125 / 5"	139.7	25~80 / 1"~3"	33.7~88.9	89 / 3.50	89 / 3.50	N/A	N/A	N/A
125 / 5"	139.7	100 / 4"	114.3	89 / 3.50	N/A	N/A	N/A	N/A
125 / 5"	141.3	25~80 / 1"~3"	33.7~88.9	89 / 3.50	89 / 3.50	N/A	N/A	N/A
125 / 5"	141.3	100 / 4"	114.3	89 / 3.50	N/A	N/A	N/A	N/A
150 / 6"	165.1	25~80 / 1"~3"	33.7~88.9	102 4.00	102 4.00	140 5.50	140 5.50	N/A
150 / 6"	165.1	100~125 / 4"~5"	114.3~139.7	102 4.00	N/A	140 5.50	N/A	N/A
150 / 6"	168.3	25~80 / 1"~3"	33.7~88.9	102 4.00	102 4.00	140 5.50	140 5.50	N/A
150 / 6"	168.3	100~125 / 4"~5"	114.3~141.3	102 4.00	N/A	140 5.50	N/A	N/A
200 / 8"	219.1	25~80 / 1"~3"	33.7~88.9	127 5.00	127 5.00	173 6.8	173 6.8	N/A
200 / 8"	219.1	100~125 / 4"~6"	114.3~168.3	127 5.00	N/A	173 6.8	N/A	N/A
250 / 10"	273.0	150~200 / 6"~8"	165.1~219.1	152 6.00	N/A	N/A	N/A	N/A
300 / 12"	323.9	200~250 / 8"~10"	219.1~273.0	178 7.00	N/A	N/A	N/A	N/A

General Valves (Gate/check/butterfly/strainer)



Stainless Steel Products (Grooved/threaded/butt welded)



Welding Fittings



Threaded Fittings (Malleable/cast/ductile iron & steel)



Pipe Hangers and Supports





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