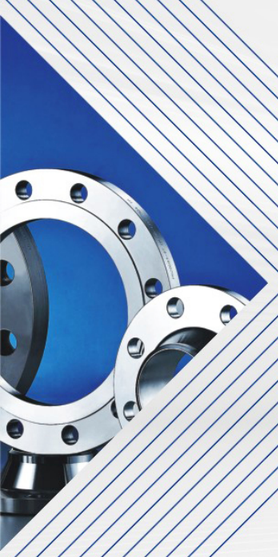
ISO9001 CE



WESDOM

WESDOM GROUP

集 团 总 部：中国・郑州华南城中原电商大厦
分 工 厂：上海・天津・河北・山东・温州・连云港
驻外分公司：非洲・坦桑尼亚・赞比亚・肯尼亚

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Group headquarters: Central Plains E-Commerce Buliding, Zhengzhou South City, China
Branch Factory: Shanghai, Tianjin, Hebei, Shandong, Wenzhou, lianyungang
Branch Company in Overseas: Tanzania, Zambia, Kenya in Africa

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WESDOM

Pipe Fittings

WESDOM GROUP

WESDOM GROUP

Enterprise Social Responsibility

WESDOM are not only concerned about products, services and solutions.

WESDOM promise to implement sustainable development and benefit society with energy-saving and environmental protection.

Our Purpose: People–Oriented, Hard Work, Never forget the original intention, Innovation and forge ahead

Our Mission: To be a high–quality supplier of fluid control systems and plan maker; To contribute our wisdom and strength to the development of the cutting–edge technology of fluid control systems.

Our Vision: Explore the internal innovation spirit and creativity, pursuit, innovation and continuous improvement. Use wisdom, foresight and hard work to make "WESDOM" a world–renowned brand; Make the group company grow into a respectable **"Four Satisfaction"** enterprise:

Customer Satisfaction: Use high–quality products and refined services to add value to customers;

Employee Satisfaction: People–oriented, build a platform for all employees to realize their dreams, everyone is the CEO;

Partner Satisfaction: Mutual promotion, improve, mutual benefit and win–win;

Shareholder Satisfaction: Enable the company to develop and grow, and return profits.

Our Values: Create differentiated value–added services for customers, let everyone in the company has a sense of accomplishment.

WESDOM GROUP
Development History

2010
WESDOM was established

In December 2010, WESDOM was registered with a registered capital of 5 million yuan;

June 2013, WESDOM passed ISO and other international certifications;

2015
WESDOM established the first overseas branch

In June 2014, TIANJIN WESDOM VALVE MANUFACTURING CO.,LTD. was established in Tianjin, where the production of butterfly valves is concentrated;

2016
WESDOM products are exported to overseas regions and markets

In July 2015, the first overseas branch company WEISIDUN MATERIAL SOLUTION COMPANY was established in the beautiful African continent –Tanzania, and WESDOM began to expand into the international market;

In December 2015, WESDOM established a special foreign trade import and export company in Zhengzhou, the hinterland of the Central Plains HENAN WEISIDUN IMPORT AND EXPORT TRADE CO.,LTD.,to make up for the domestic shortcomings of entering the international market;

In 2016, WESDOM brand products have been exported to Tanzania, Zambia, Egypt, Turkey, Pakistan, Thailand, Indonesia, Vietnam, the Philippines, Saudi Arabia, Mexico and other countries and regions;

In 2017, the company carried out production, procurement adjustments and layouts, expanded product series, initially formed a production and procurement system for water series products (control and connection systems), and established a procurement system for major production clusters across the south and north. ;

2018
Zambia branch was established, and the group company expanded its measurement products series

2019
WESDOM launched a series of plastic materials

2020
WESDOM sales exceeded 20 million USD

2021
Kenya branch is established, WESDOM products occupy the African market

.....

In January 2018, the second exclusive import and export company was established–HENAN WESDOM FLOW CONTROL CO.,LTD.In August of the same year, the second overseas branch company –WESDOM VALVES AND FITTINGS COMPANY LIMITED was established in Zambia, Africa;

In 2018, the series of measurement products (water meters, flow meters) were expanded, and the supply chain system was further enriched and improved;

In 2019, a series of plastic material products were launched; the company's valves and pipe fittings passed the CE certification; WESDOM overall sales performance exceeded 90 million in the same year;

In 2020, under the influence of the unfavorable factors of the domestic and foreign epidemic situation, the company has achieved the goal of breaking 100 million yuan in addition to the continuous growth of sales.

In April 2021, the Kenya branch WESDOM VALVES AND FITTINGS(K) CO LIMITED was established and operated well, its products occupy the African market successfully.

To be continued...

WESDOM GROUP

Company Introduction

WESDOM Group specializes in pipeline fluid systems: R&D, production and sales of valves, pipe fittings, water meters, flow meters, etc. The products cover cast iron, cast steel, stainless steel, copper, plastic and other materials, which are widely used in hydropower stations, heat, buildings, Water supply and drainage, petroleum, chemical industry, electric power, medical and other fields.

In recent years, WESDOM Group has actively embraced the era of Internet of Everything, committed to IoT terminal control and artificial intelligence design, big data mining and development, and promoted smart hardware to move towards big data center and wisdom with excellent market foresight and technological innovation. The smart cities, smart heating, smart water and other fields are in progress.

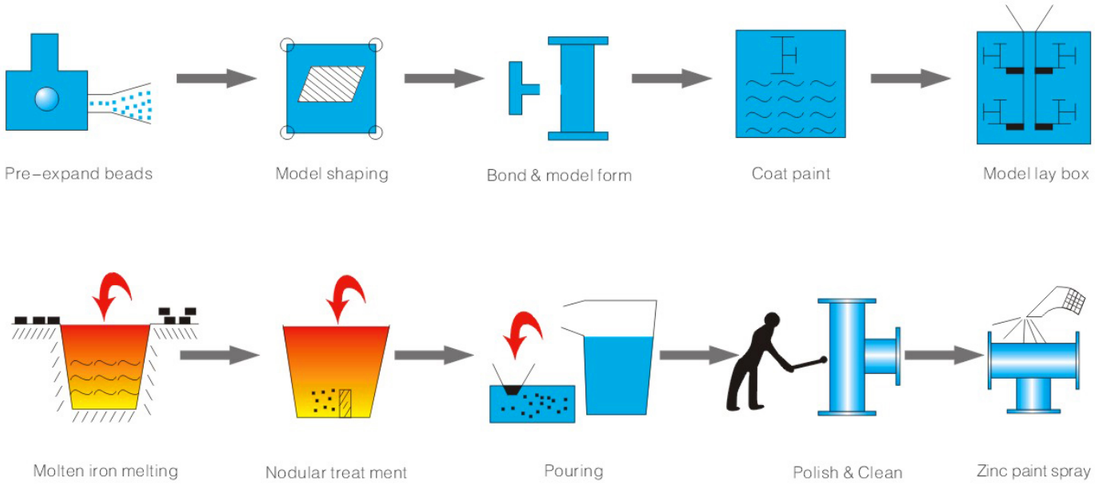
In the early stage, the Internet of Things smart valves and smart water meters were developed to promote and apply smart control systems such as municipal heating and municipal water supply.

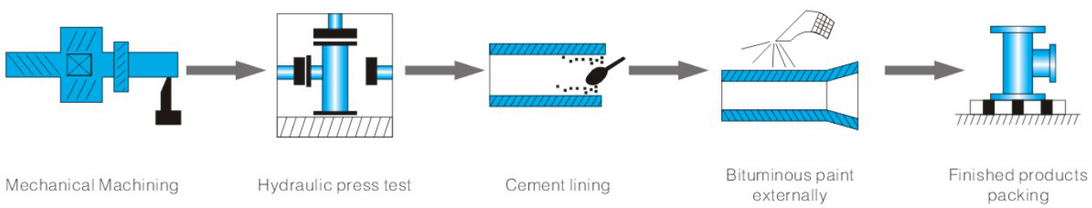
In terms of quality control, we have strict control procedures. From the raw materials entering the factory to the final product leaving the factory, after 24 quality inspection passes, each pass must ensure that the product quality is 100% qualified before it can flow into the next process, thus ensuring that the qualified rate of the finished products. WESDOM products can well meet the Chinese standard like GB, JB, HB; American standard like API, ASME, AWWA; British and EU standards like BS, EN, ISO; German standard DIN; Japanese standard JIS; Russian standard GOST and other standards.

Company Qualification

WESDOM GROUP

Production Process Flow of Ductile Cast Iron Fittings





Application Field

WESDOM

Industrial Pipelines Solutions

Mining

- Acid leaching solvent extraction
- Mud transmission
- Cooling System

Power Generation

- Water and electricity
- Flue gas desulfurization system
- Flue gas desulfurization system
- Cooling water system
- Steam System
- Waste incineration power generation
- Renewable energy

Chemical Industry

- Chemical production
- Distribution system
- Surface treatment
- Biofuels

Building

- Water supply and drainage
- Heating ventilation and air conditioning

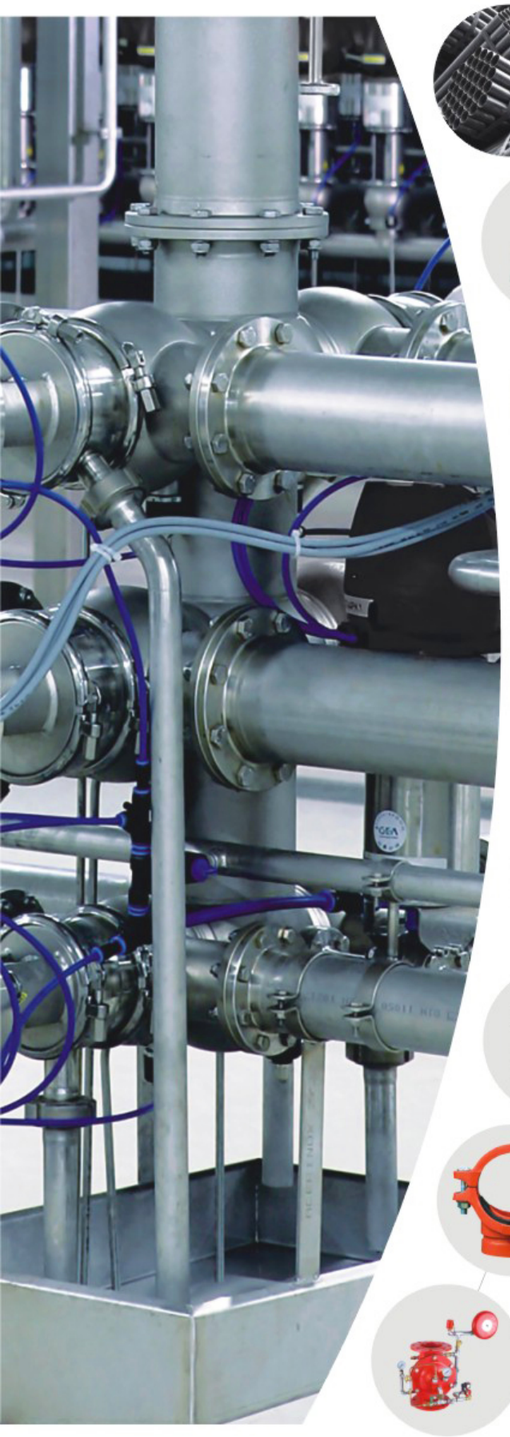
Steel

Water engineering valves and air valves are used to control the gases in the steel production

Oil and Gas

- Crude oil processing plant
- Petroleum refinery

Contents



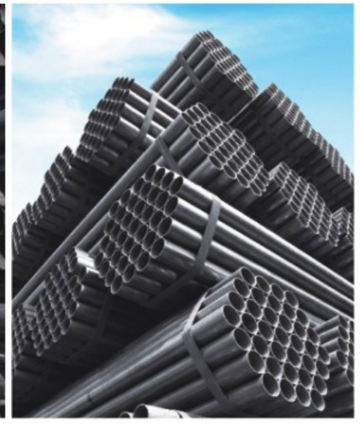
ERW Steel Pipe Production Line

ERW Steel Pipe

Size: DN15–200mm

Usage: Widely used in low pressure liquid delivery such as water, gas, air, oil and steam and for machine structural pruposes.

ERW Steel Pipe Yard



ERW Steel Pipe Production Line

Hot Dipped Galvanized Steel Pipe

Hot Dipped Galvanized Square Pipe

Square Tube Production Line

Hot Dipped Galvanized Steel Pipe

Round Pipe: DN15–200mm

Square Pipe: 20 × 20–200 × 200mm

Rectangular Pipe: 20 × 40–100 × 200mm

Spiral Pipe: 219–1420mm

Flat Steel / Angle Steel / Channel Steel and L–steel.

Usage: Used for delivery of low pressure liquid shuc as water, gas, air, steam for heating and for machine stuctural purposes

Square / Rectangular Steel Pipe

Square Steel Pipe: 20 × 20–400 × 400mm

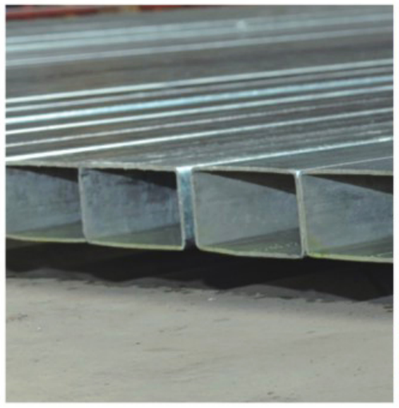
Rectangular Pipe: 20 × 40–300 × 500mm

WT: 1.5–12mm

Usage: The Prducts are wisely used in steel struction, mechanical, manufacturing, construction, automobile manufacturing, shipbuilding, electricity and so on.

Hot Dippde Galvanized Steel Pipe

Hot Dippde Galvanized Steel Pipe

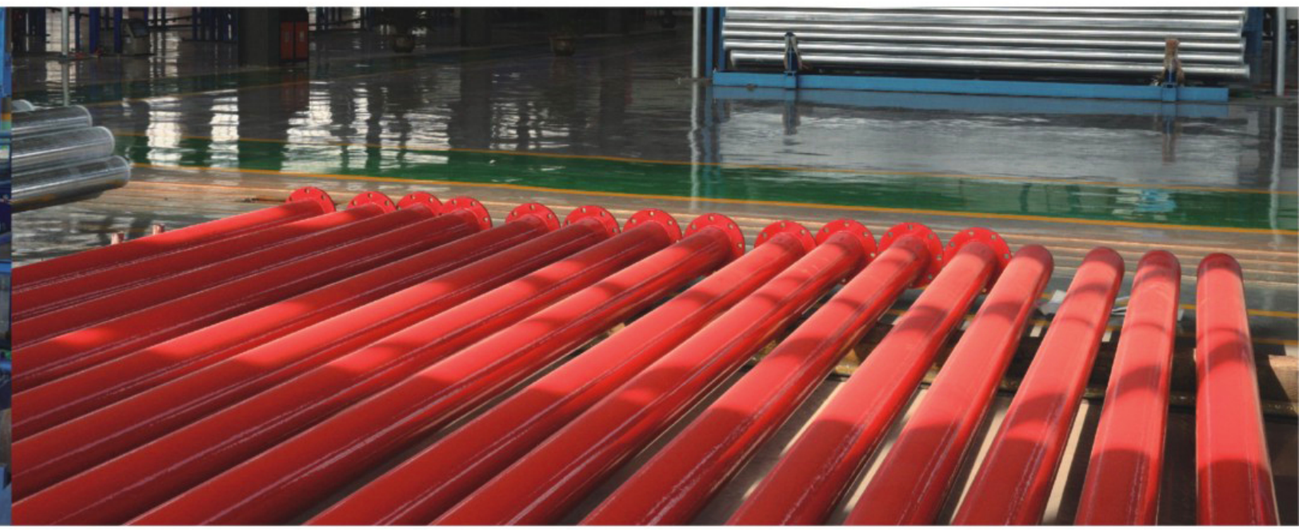


Rectangular Tube

Rectangular Tube Yard

Square Tube

Steel Pipe of Lining Plastic Production Line



Plastic Coated Composite Pipe Production Workshop

Steel Pipe of Lining Plastic

Size:DN15–300mm round pipe
Usage: High–level drinking water convey

Plastic–Coated Steel Pipe

Size: DN15–DN500
Usage: Water supply, fire protection, wire and cable pipe, vent pipe

Steel Pipe of Lining Plastic for Cold Water

Steel Pipe of Lining Plastic for Hot Water

Plastic Coated Composite Pipe Production Workshop

Spiral Steel Pipe Production Line

SSAW Steel Pipe

Specification: Φ219–2020mm, Max wall thickness: 20mm
Usage: Used for the line pipe of petroleum, gas and delivery of low pressure liquid shch as water, gas, air, steam for heating, and for piles and the construction field for structure.

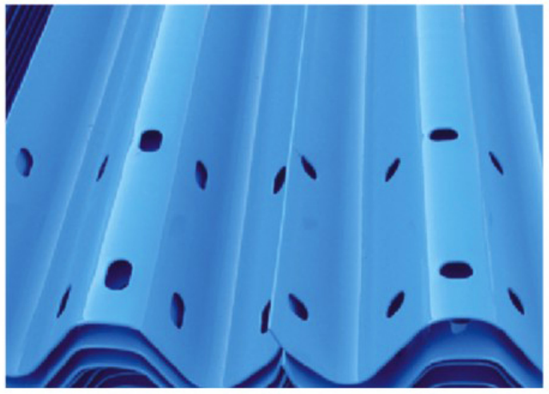
3PE Spiral Steel Pipe

Spiral Steel Pipe Yard

Spray Lines

Discourage Block Column Cap

Spray Plate



Spray Wave Beam Steel Guardrail

Highway Materials

wave beam steel guardrail steel column
discourage block column cap ends

Wave Beam Steel Guardrail

Square Steel Columns

Round Steel Columns

Grooved with caps

Cut In Short Length

PVC Wrapped

Threaded with Coupling

Oiled and PVC Wrapped

Painted

BS EN 10255 Steel Tubes and Tubular Stuitable for Screwing to BS EN 10226 Pipe Threads

Series	Nominal Size		Outside Diameter				Wall Thickness		Mass of Black Tube					
			Max		Min				Plain End			Screwed and Socketed		
	Inch	DN	in	mm	in	mm	in	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m
L	1/2	15	0.854	21.7	0.827	21.0	0.091	2.3	0.726	0.329	1.08	0.732	0.332	1.09
	3/4	20	1.067	27.1	1.039	26.4	0.091	2.3	0.941	0.427	1.4	0.947	0.430	1.41
	1	25	1.339	34.0	1.307	33.2	0.114	2.9	1.478	0.671	2.2	1.492	0.677	2.22
	1 1/4	32	1.681	42.7	1.650	41.9	0.114	2.9	1.895	0.860	2.82	1.915	0.869	2.85
	1 1/2	40	1.913	48.6	1.882	47.8	0.114	2.9	2.184	0.991	3.25	2.211	1.003	3.29
	2	50	2.390	60.7	2.346	59.6	0.126	3.2	3.031	1.375	4.51	3.078	1.396	4.58
	2 1/2	65	2.992	76.0	2.961	75.2	0.126	3.2	3.864	1.753	5.75	3.9.44	1.789	5.87
	3	80	3.492	88.7	3.461	87.9	0.126	3.2	4.543	2.060	6.76	4.657	2.112	6.93
	3 1/2	90	3.984	101.2	3.949	100.3	0.142	3.6	5.846	2.652	8.7	5.967	2.707	8.88
	4	100	4.484	113.9	4.449	113.0	0.142	3.6	6.605	2.996	9.83	6.787	3.078	10.1
	5	125	5.543	140.8	5.453	138.5	0.117	4.5	10.080	4.572	15	10.416	4.724	15.5
	6	150	6.555	166.5	6.453	163.9	0.117	4.5	11.961	5.425	17.8	12.364	5.608	18.4
L1	1/2	15	0.854	21.7	0.827	21.0	0.091	2.3	0.726	0.329	1.08	0.732	0.332	1.09
	3/4	20	1.067	27.1	1.039	26.4	0.091	2.3	0.934	0.424	1.39	0.941	0.427	1.4
	1	25	1.339	34.0	1.307	33.2	0.114	2.9	1.478	0.671	2.2	1.492	0.677	2.22
	1 1/4	32	1.681	42.7	1.650	41.9	0.114	2.9	1.895	0.860	2.82	1.915	0.869	2.85
	1 1/2	40	1.913	48.6	1.882	47.8	0.114	2.9	2.177	0.988	3.24	2.204	1.000	3.28
	2	50	2.390	60.7	2.346	59.6	0.126	3.2	3.017	1.369	4.49	3.064	1.390	4.56
	2 1/2	65	3.004	76.3	2.961	75.2	0.126	3.2	3.850	1.747	5.73	3.931	1.783	5.85
	3	80	3.520	89.4	3.461	87.9	0.142	3.6	5.073	2.301	7.55	5.188	2.353	7.72
	4	100	4.524	114.9	4.449	113.0	0.157	4.0	7.257	3.292	10.8	7.459	3.383	11.1
L2	1/2	15	0.843	21.4	0.827	21.0	0.079	2.0	0.636	0.289	0.947	0.642	0.291	0.956
	3/4	20	1.059	26.9	1.039	26.4	0.091	2.3	0.927	0.421	1.38	0.934	0.424	1.39
	1	25	1.331	33.8	1.307	33.2	0.102	2.6	1.331	0.604	1.98	1.344	0.610	2
	1 1/4	32	1.673	42.5	1.650	41.9	0.102	2.6	1.707	0.774	2.54	1.727	0.783	2.57
	1 1/2	40	1.906	48.4	1.882	47.8	0.114	2.9	2.170	0.985	3.23	2.197	0.997	3.27
	2	50	2.370	60.2	2.346	59.6	0.114	2.9	2.742	1.244	4.08	2.789	1.265	4.15
	2 1/2	65	2.992	76.0	2.961	75.2	0.126	3.2	3.837	1.740	5.71	3.918	1.7r77	5.83
	3	80	3.492	88.7	3.461	87.9	0.126	3.2	4.516	2.048	6.72	4.630	2.100	6.89
	4	100	4.484	113.9	4.449	113.0	0.142	3.6	6.552	2.972	9.75	6.720	3.048	10
H	1/2	15	0.858	21.8	0.827	21.0	0.126	3.2	0.968	0.439	1.44	0.974	0.442	1.45
	3/4	20	1.075	27.3	1.043	26.5	0.126	3.2	1.257	0.570	1.87	1.263	0.573	1.88
	1	25	1.346	34.2	1.311	33.3	0.157	4.0	1.969	0.893	2.93	1.982	0.899	2.95
	1 1/4	32	1.689	42.9	1.654	42.0	0.157	4.0	2.547	1.155	3.79	2.567	1.164	3.82
	1 1/2	40	1.921	48.8	1.886	47.9	0.157	4.0	2.937	1.332	4.37	2.963	1.344	4.41
	2	50	2.394	60.8	2.350	59.7	0.177	4.5	4.159	1.887	6.19	4.207	1.908	6.26
	2 1/2	65	3.016	76.6	2.965	75.3	0.177	4.5	5.329	2.417	7.93	5.409	2.454	8.05
	3	80	3.524	89.5	3.465	88.0	0.197	5.0	6.921	3.139	10.3	7.056	3.200	10.5
	4	100	4.528	115.0	4.453	113.1	0.213	5.4	9.7.44	4.420	14.5	9.945	4.511	14.8
	5	125	5.543	140.8	5.453	138.5	0.213	5.4	12.028	5.456	17.9	12.364	5.608	18.4
	6	150	6.555	166.5	6.453	163.9	0.213	5.4	14.313	6.492	21.3	14.716	6.675	21.9
M	1/2	15	0.858	21.8	0.827	21.0	0.102	2.6	0.813	0.369	1.21	0.820	0.372	1.22
	3/4	20	1.075	27.3	1.043	26.5	0.102	2.6	1.048	0.475	1.56	1.055	0.479	1.57
	1	25	1.346	34.2	1.311	33.3	0.126	3.2	1.619	0.735	2.41	1.633	0.741	2.43
	1 1/4	32	1.689	42.9	1.654	42.0	0.126	3.2	2.083	0.945	3.1	2.103	0.954	3.13
	1 1/2	40	1.921	48.8	1.886	47.9	0.126	3.2	2.392	1.085	3.56	2.419	1.097	3.6
	2	50	2.394	60.8	2.350	59.7	0.142	3.6	3.380	1.533	5.03	3.427	1.554	5.1
	2 1/2	65	3.016	76.6	2.965	75.3	0.142	3.6	4.314	1.957	6.42	4.395	1.993	6.54
	3	80	3.524	89.5	3.4JB5	88.0	0.157	4.0	5.618	2.548	8.36	5.732	2.600	8.53
	4	100	4.528	115.0	4.453	113.1	0.177	4.5	8.198	3.179	12.2	8.400	3.810	12.5
	5	125	5.543	140.8	5.453	138.5	0.197	5.0	11.155	5.060	16.6	11.491	5.212	17.1
	6	150	6.555	166.5	6.453	163.9	0.197	5.0	13.305	6.035	19.8	13.703	6.218	20.4

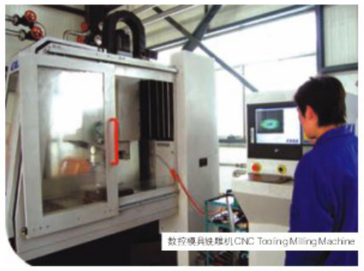
BS 1387/85 Steel Tubes and Tubular Stuitable for Screwing to BS 21 Pipe Threads

BS 1387/85 Steel Tubes and Tubular Stuitable for Screwing to BS 21 Pipe Threads

Series	Nominal Size		Outside Diameter				Wall Thickness		Mass of Black Tube					
			Max		Min				Plain End			Screwed and Socketed		
	Inch	DN	in	mm	in	mm	in	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m
Light	1/2	15	0.841	21.4	0.825	21.0	0.080	2.0	0.636	0.289	0.947	0.646	0.293	0.956
	3/4	20	1.059	26.9	1.041	26.4	0.090	2.3	0.927	0.421	1.38	0.954	0.433	1.39
	1	25	1.328	33.8	1.309	33.2	0.104	2.6	1.330	0.604	1.98	1.360	0.617	2
	1 1/4	32	1.670	42.5	1.650	41.9	0.104	2.6	1.710	0.774	2.54	1.750	0.794	2.57
	1 1/2	40	1.903	48.4	1.882	47.8	0.116	2.9	2.170	0.985	3.23	2.220	1.010	3.27
	2	50	2.370	60.2	2.347	59.6	0.116	2.9	2.740	1.240	4.08	2.810	1.270	4.15
	2 1/2	65	2.991	76.0	2.960	75.2	0.126	3.2	3.840	1.740	5.71	3.980	1.810	5.83
	3	80	3.491	88.7	3.460	87.9	0.126	3.2	4.520	2.050	6.72	4.490	2.130	6.89
	4	100	4.481	113.9	4.450	113.0	0.142	3.6	6.550	2.970	9.75	6.840	3.100	10
Medium	1/2	15	0.586	21.7	0.831	21.1	0.104	2.6	0.813	0.369	1.21	0.828	0.376	1.22
	3/4	20	1.072	27.2	1.047	26.6	0.104	2.6	1.050	0.475	1.56	1.070	0.485	1.57
	1	25	1.346	34.2	1.316	33.4	0.126	3.2	1.620	0.735	2.41	1.650	0.748	2.43
	1 1/4	32	1.687	42.9	1.657	42.1	0.126	3.2	2.080	0.945	3.1	2.130	0.966	3.13
	1 1/2	40	1.919	48.8	1.889	48.0	0.126	3.2	2.400	1.090	3.57	2.460	1.120	3.61
	2	50	2.394	60.8	2.354	59.8	0.142	3.6	3.380	1.530	5.03	3.470	1.570	5.1
	2 1/2	65	3.014	76.6	2.969	75.4	0.142	3.6	4.320	1.960	6.43	4.460	2.020	6.55
	3	80	3.524	89.5	3.469	88.1	0.157	4.0	5.620	2.550	8.37	5.800	2.630	8.54
	4	100	4.524	114.9	4.459	113.3	0.177	4.5	8.200	3.720	12.2	8.340	3.780	12.5
	5	125	5.534	140.6	5.549	138.7	0.196	5.0	11.15	5.060	16.6	11.20	5.080	17.1
	6	150	6.539	166.1	6.459	164.1	0.196	5.0	13.24	6.000	19.7	13.30	6.030	20.3
Heavy	1/2	15	0.856	21.7	0.831	21.1	0.126	3.2	0.968	0.439	1.44	0.983	0.446	1.45
	3/4	20	1.072	27.2	1.047	26.6	0.126	3.2	1.260	0.570	1.87	1.280	0.581	1.88
	1	25	1.346	34.2	1.136	33.4	0.157	4.0	1.980	0.896	2.94	2.010	0.912	2.96
	1 1/4	32	1.687	42.9	1.657	42.1	0.157	4.0	2.550	1.160	3.8	2.600	1.180	3.83
	1 1/2	40	1.919	48.8	1.889	48.0	0.157	4.0	2.940	1.340	4.38	3.010	1.370	4.42
	2	50	2.394	60.8	2.354	59.8	0.177	4.5	4.160	1.890	6.19	4.190	1.900	6.26
	2 1/2	65	3.014	76.6	2.969	75.4	0.177	4.5	5.330	2.420	7.93	5.390	2.440	8.05
	3	80	3.524	89.5	3.469	88.1	0.196	5.0	6.920	3.140	10.3	6.870	3.120	10.5
	4	100	4.524	114.9	4.459	113.3	0.212	5.4	9.740	4.420	14.5	9.910	4.500	14.8
	5	125	5.534	140.6	5.459	138.7	0.212	5.4	12.30	5.460	17.9	12.30	5.580	18.4
	6	150	6.539	166.1	6.459	164.1	0.212	5.4	14.31	6.490	21.3	14.70	6.670	21.9

Galvanized Pipe Fittings


机加工车间 Machining Workshop


数控模具铣床机 CNC Tooling Milling Machine


德国康诺QC型直读光谱仪
QC Spectrometer Made by Quantron in Germany


隧道式退火窑 Tunnel type annealing furnace

造型自动生产线 Automatic molding production line

适用于额定工作压力(1.6MPa)和工作温度(200℃)范围内，输送液体如：水，油，气(天然气、煤气、水蒸气)等一般管路的连接。

表面处理：涂漆、喷涂、热镀锌、电镀锌

执行标准

企业标准 Q/JZ 01-2009(修改采用日本标准JIS B2301)
国家标准 GB/T 3287-2000
国际标准 ISO5922/ISO46/ISO7-1
英国欧盟标准 BS EN1562:1997
德国标准 DIN2950/1692/2999
美国标准 ANSI/ASTM A 197/A 197M-2000
ANSI/ASTM 16.3-92/B1.20.1-83

材料机械性能

抗拉强度≥330MPa； 伸长率≥8%； 硬度≤HB150

Suitable for pressure Max 1.6MPa, temperature Max 200℃, and for pipeline holding water, oil, gas, etc.

Finishing: (Black) Painting, Galvanizing, Elctro-plating

Standards

Company Standard:Q/JZ 01-2009(Partially based on JIS B2301)
GB/T 3287-2000
ISO5922/ISO46/ISO7-1
BS EN1562:1997
DIN2950/1692/2999
ANSI/ASTM A 197/A 197M-2000
ANSI/ASTM 16.3-92/B1.20.1-83

Mechanical Properties

Tensile Strength ≥330MPa; Elongation rate ≥8%; Hardnedss ≤HB150











1


2


85


90


130R-Tees, Reducing


92


120


130


180


95

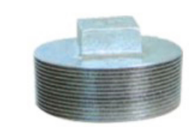

270-Half Thread


270-Full Thread


280


290


97


291


301


310


330


340


331

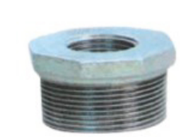

90R


130R


180R


529


240


241


245


Flange

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Carbon Steel Pipe Fittings

WESDOM GROUP

Wall thickness schedule **GB12459 GB/T13401**

Nominal diameter DN	Outside Diameter D		Nominal wall Thickness T														
	A series	B series	Sch5s	Sch10s	Sch20s	LG	Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160
15	21.3	18	1.6	2.1	2.6	–	–	–	–	2.9	–	–	3.6	–	–	–	4.5
20	26.9	25	1.6	2.1	2.6	–	–	–	–	2.9	–	–	4.0	–	–	–	5.6
25	33.7	32	1.6	2.8	3.2	–	–	–	–	3.2	–	–	4.5	–	–	–	6.3
32	42.4	38	1.6	2.8	3.2	–	–	–	–	3.6	–	–	5.0	–	–	–	6.3
40	48.3	45	1.6	2.8	3.2	–	–	–	–	3.6	–	–	5.0	–	–	–	7.1
50	60.3	57	1.6	2.8	3.6	–	3.2	–	–	4.0	–	–	5.6	–	–	–	8.8
65	76.1(73)	76	2.0	3.0	3.6	–	4.5	–	–	5.0	–	–	7.1	–	–	–	10.0
80	88.9	89	2.0	3.0	4.0	–	4.5	–	–	5.6	–	–	8.0	–	–	–	11.0
90	101.6	–	2.0	3.0	4.0	–	4.5	–	–	5.6	–	–	8.0	–	–	–	12.5
100	114.3	108	2.0	3.0	4.0	–	5.0	–	–	5.9	–	–	8.8	–	11.0	–	14.2
125	139.7	133	2.9	3.4	5.0	–	5.0	–	–	6.3	–	–	10.0	–	12.5	–	16.0
150	168.3	159	2.9	3.4	5.0	–	5.6	–	–	7.1	–	–	11.0	–	14.2	–	17.5
200	219.1	219	2.9	4.0	6.3	–	6.3	7.1	–	8.0	10.0	–	12.5	16.0	17.5	20.0	22.2
250	273.0	273	3.6	4.0	6.3	–	6.3	8.0	–	8.8	12.5	–	16.0	17.5	22.2	25.0	28.0
300	323.9	325	4.0	4.5	6.3	–	6.3	8.8	–	10.0	14.2	–	17.5	22.2	25.0	28.0	32.0
350	355.6	377	4.0	5.0	8.0	8.0	8.0	10.0	10.0	11.0	16.0	13.0	20.0	25.8	28.0	32.0	36.0
400	406.4	426	4.0	5.0	8.0	8.0	8.0	10.0	10.0	12.5	17.5	13.0	22.2	28.0	30.0	36.0	40.0
450	457.0	478	4.0	5.0	8.0	8.0	8.0	11.0	10.0	14.2	20.0	13.0	25.0	30.0	36.0	40.0	45.0
500	508.0	529	5.0	5.6	8.0	8.0	10.0	12.5	10.0	16.0	20.0	13.0	28.0	32.0	40.0	45.0	50.0
550	559	–	5.0	5.6	–	8.0	–	–	10.0	–	–	13.0	30.0	–	–	–	–
600	610	630	5.6	6.3	–	8.0	–	–	10.0	17.5	–	13.0	32.0	–	–	–	–
650	660	–	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
700	711	720	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
750	762	–	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
800	813	820	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
850	864	–	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
900	914	920	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
950	965	–	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
1000	1016	1020	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
1050	1067	–	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
1100	1118	1120	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
1150	1168	–	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–
1200	1219	1220	–	–	–	8.0	–	–	10.0	–	–	13.0	–	–	–	–	–

Manufacture's standard and manufacture's scope

Manufacturing standards

GB12459-90	Steel butt-welded seamless pipe fittings
GB/T13401-92 GB/14383-93	Butt-welded pipe fittings made of steel plate
SH3408-96	Steel butt-welded seamless pipe fittings
SH3409-96	Butt-welded pipe fittings made of steel plate
SH3410-96	Socket welded pipe fittings
GD87-1101	Typical design of steam pipe parts and components in thermal power plant
HGJ514-87	Seamless butt-welding pipe fittings of carbon steel and low alloy steel
SY7510-87	Butt-welded steel pipe fittings
IS05251-1981(E)	Stainless steel butt-welding fi ttjngs
IS03419-1981(E)	Non-alloy and alloy steel butt-welding fittings
ANSI B16.9(1986)	Factory-made wronght Steel butt-welding fittings
ANSI B16.11(1980)	Forged steel fi ttings, socket-welding and threaded
ANSI B16.28(1986)	Wrought steel butt-welding short elbows and returns
ASTM A234	Elevated austenitic stainless steel and alloy steel for moderate and
	Elevated temperatures
ASTM A403	Wrought austenitic stainless steel and alloy steel for moderate
	Elevated temperatures
DIN 2605-2642	Steel butt-welded seamless pipe fittings
	Butt-welded pipe fittings made of steel plate
JIS B2311-1982	The general distribution pipe is made of steel sudden joint and dissolution type pipe relay
JIS B2312-1982	The distribution pipe is made of steel sudden joint and dissolving type pipe relay
JIS B2313-1982	The steel plate of the distribution pipe is used to make the sudden joint and dissolution type pipe relay
JIS B2316-1982	The distribution pipe is made of steel differential solubility type pipe relay
ANSI-GB and industry standards	Flat welding, butt welding flange series products
	We can also produce it according to sustomers' drawings and standards.

Material

10#, 20#, 20g, A3, 16Mn, 16MnR, Cr5Mo, 15CrMo, 12CrMo, 12Cr1Mov, Cr2Mo, Cr9Mo, 10CrMo910, 15Cr1Mo1v,
1Cr18Ni9Ti, 0Cr18Ni9, Cr25Ni20, 00Cr18Ni10, 00Cr17Ni14Mo2, 0Cr17Ni12MoTi
ASTM A234, A403, 304, 304L, 316, 316L
As for various Cu, AL, Ti and alloy materials, we can manufacture the products according to customers' materials.

Manufacturing ranges

Elbows	(Steel pipe)	DN15-DN800
	(Steel plate)	DN300-DN1400
	(180°)	DN40-DN400
Three way, Four way	(Steel pipe)	DN15-DN500
	(Steel plate)	DN300-DN1400
Reducers	(Steel pipe)	DN15-DN800
	(Steel plate)	DN300-DN1400
Caps		DN32-DN2000
Steel socket-welded fittings		DN15-DN80
Long radius bends		DN40-DN600, R≥2D
Flanges	Forged butt welding flange	DN15-DN600
	Flat welding flange made of steel plate	DN15-DN1200
	Flange cover made of steel plate	DN15-DN1200

Technical parameters of pipe fittings

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

ASME Standards	
A234	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and high Temperature Service
A403	Wrought Austenitic Stainless Steel Piping Fittings
A420	Piping Fittings of Wrought Carbon Steel and Alloy Steel Low Temperature Service
A815	Wrought Ferritic, Ferritic/Austenitic, and Martensitic Stainless Steel Piping Fittings

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	Factouy-Made Butt-Welding Fittings 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 Pressure Factor
2609	Steel Butt-Welding Pipe Fittings; Technical Delivery Conditions
2615-1	Steel Butt-Welding Pipe Fittings; Tees with Reduced Pressure Factor
2615-2	Steel Butt-Welding Pipe Fittings; Tee For Use at Full Service Pressure
2616-1	Steel Butt-Welding Pipe Fittings; Eccentric Reducers with Reduced Pressure Factor
2616-2	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 Requirement; 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

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Flange

WESDOM GROUP

GB/T12459–2017 SH3408, SH3409 ASME B36.10M B36.16M

Nominal Pipe Size	Outside Diameter D		Nominal Wall Thickness																
DN	A	B	SCH 5s	SCH 10s	SCH 10	SCH 20	SCH 30	SCH 40s	STD	SCH 40	SCH 60	SCH 80s	XS	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	XXS
15	21.3	18	1.65	2.11	–	–	–	2.77	2.77	2.77	–	3.73	3.73	3.73	–	–	–	4.78	7.47
20	26.9	25	1.65	2.11	–	–	–	2.87	2.87	2.87	–	3.91	3.91	3.91	–	–	–	5.56	7.82
25	33.7	32	1.65	2.77	–	–	–	3.38	3.38	3.38	–	4.55	4.55	4.55	–	–	–	6.35	9.09
32	42.4	38	1.65	2.77	–	–	–	3.56	3.56	3.56	–	4.85	5.08	4.85	–	–	–	6.35	9.70
40	48.3	45	1.65	2.77	–	–	–	3.68	3.68	3.68	–	5.08	5.54	5.08	–	–	–	7.14	10.15
50	60.3	57	1.65	2.77	–	–	–	3.91	3.91	3.91	–	5.54	8.08	5.54	–	–	–	8.74	11.07
65	73.0	76	2.11	3.05	–	–	–	5.16	5.16	5.16	–	7.01	8.56	7.01	–	–	–	9.53	14.02
80	88.9	89	2.11	3.05	–	–	–	5.49	5.49	5.49	–	7.62	9.53	7.62	–	–	–	–	15.24
90	101.6	–	2.11	3.05	–	–	–	5.74	5.74	5.74	–	8.08	10.97	8.08	–	–	–	11.13	–
100	114.3	108	2.11	3.05	–	–	–	6.02	6.02	6.02	–	8.56	12.70	8.56	–	11.13	–	13.49	17.12
125	141.3	133	2.77	3.40	–	–	–	6.55	6.55	6.55	–	9.53	12.70	9.53	–	12.70	–	15.88	19.05
150	168.3	159	2.77	3.40	–	–	–	7.11	7.11	7.11	–	10.97	12.70	10.97	–	14.27	–	18.26	21.95
200	219.1	219	2.77	3.76	–	6.35	7.04	8.18	8.18	8.18	10.31	12.70	12.70	12.70	15.09	18.26	20.62	23.01	22.23
250	273.0	273	3.40	4.57	–	6.35	7.80	9.27	9.27	9.27	12.70	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
300	323.9	325	3.96	4.78	–	6.35	8.38	9.53	9.53	10.31	14.27	12.70	12.70	17.48	21.44	25.40	28.58	33.32	25.40
350	355.6	377	3.96	4.78	6.35	7.92	9.53	–	9.53	11.13	15.09	–	12.70	19.05	23.83	27.79	31.75	35.71	–
400	406.4	426	4.19	4.78	6.35	7.92	9.53	–	9.53	12.70	16.66	–	12.70	21.44	26.19	30.96	36.53	40.49	–
450	457	480	4.19	5.54	6.35	7.92	ii.13	–	9.53	14.27	19.05	–	12.70	23.83	29.36	34.93	39.67	45.24	–
500	508	530	4.78	5.54	6.35	9.53	12.70	–	9.53	15.09	20.62	–	12.70	26.19	32.54	38.10	44.45	50.01	–
550	559	–	4.78	6.35	6.35	9.53	12.70	–	9.53	–	22.23	–	12.70	28.58	34.93	41.28	47.63	53.98	–
600	610	630	5.54	6.35	6.35	9.53	14.27	–	9.53	17.48	24.61	–	12.70	30.96	38.89	46.02	52.37	59.54	–
650	660	–	–	6.35	7.92	12.70	–	–	9.53	–	–	–	12.70	–	–	–	–	–	–
700	711	720	–	–	7.92	12.70	15.88	–	9.53	–	–	–	12.70	–	–	–	–	–	–
750	762	–	6.35	7.92	7.92	12.70	15.88	–	9.53	17.48	–	–	12.70	–	–	–	–	–	–
800	813	820	–	–	7.92	12.70	15.88	–	9.53	17.48	–	–	12.70	–	–	–	–	–	–
850	964	–	–	–	7.92	12.70	15.88	–	9.53	19.05	–	–	12.70	–	–	–	–	–	–
900	914	–	–	–	7.92	12.70	15.88	–	9.53	–	–	–	12.70	–	–	–	–	–	–
950	965	–	–	–	–	–	–	–	9.53	–	–	–	–	–	–	–	–	–	–
1000	1016	–	–	–	–	–	–	–	9.53	–	–	–	–	–	–	–	–	–	–
1050	1067	–	–	–	–	–	–	–	9.53	–	–	–	–	–	–	–	–	–	–
1100	1118	–	–	–	–	–	–	–	9.53	–	–	–	–	–	–	–	–	–	–
1150	1168	–	–	–	–	–	–	–	9.53	–	–	–	–	–	–	–	–	–	–
1200	1219	–	–	–	–	–	–	–	9.53	–	–	–	–	–	–	–	–	–	–

SCH5s, 10s, 20s applies for stainless steel fittings.

Outside diameter and wall thickness

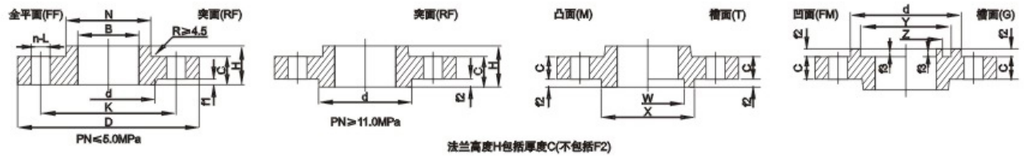
JIS B2311, B2312, B2313

Nominal Pipe Size		Outside Diameter		Nominal Wall Thickness																
DN	NPS	D	SGP	SCH 5s	SCH 10s	SCH 10	SCH 20	SCH 30	SCH 40s	STD	SCH 40	SCH 60	SCH 80s	XS	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	XXS
15	1/2	21.7	2.8	1.65	2.1	–	2.5	–	2.8	2.8	2.8	–	3.7	3.7	3.7	–	–	–	4.8	7.5
20	3/4	27.2	2.8	1.65	2.1	–	2.5	–	2.9	2.9	2.9	–	3.9	3.9	3.9	–	–	–	5.6	7.8
25	1	34.0	3.2	1.65	2.8	–	3.0	–	3.4	3.4	3.4	–	4.5	4.5	4.5	–	–	–	6.4	9.1
32	1 1/4	42.7	3.5	1.65	2.8	–	3.0	–	3.6	3.6	3.6	–	4.9	4.9	4.9	–	–	–	6.4	9.7
40	1 1/2	48.6	3.5	1.65	2.8	–	3.0	–	3.7	3.7	3.7	–	5.1	5.1	5.1	–	–	–	7.1	10.2
50	2	60.5	3.8	1.65	2.8	–	3.5	–	3.9	3.9	3.9	–	5.5	5.5	5.5	–	–	–	8.7	11.1
65	2 1/2	76.3	4.2	2.1	3.0	–	3.5	–	5.2	5.2	5.2	–	7.0	7.0	7.0	–	–	–	9.5	14.0
80	3	89.1	4.2	2.1	3.0	–	4.0	–	5.2	5.5	5.2	–	7.6	7.6	7.6	–	–	–	11.1	15.2
90	3 1/2	101.6	4.2	2.1	3.0	–	4.0	–	5.7	5.7	5.7	–	8.1	8.1	8.1	–	–	–	–	–
100	4	114.3	4.5	2.1	3.0	–	4.0	–	6.0	6.0	6.0	–	8.6	8.6	8.6	–	11.1	–	13.5	17.1
125	5	139.8	4.5	2.8	3.4	–	5.0	–	6.6	6.6	6.6	–	9.5	9.5	9.5	–	12.7	–	15.9	19.0
150	6	165.2	5.0	2.8	3.4	–	5.0	–	7.1	7.1	7.1	–	11.0	11.0	11.0	–	14.3	–	18.2	21.9
200	8	216.3	5.8	2.8	4.0	–	6.5	7.0	8.2	8.2	8.2	10.3	12.7	12.7	12.7	15.1	18.2	20.6	23.0	22.2
250	10	267.4	6.6	3.4	4.0	–	6.5	7.8	9.3	9.3	9.3	12.7	12.7	12.7	15.1	18.3	21.4	25.4	28.6	25.4
300	12	318.5	6.9	4.0	4.5	–	6.5	8.4	9.5	9.5	10.3	14.3	12.7	12.7	17.4	21.4	25.4	28.6	33.3	25.4
350	14	355.6	7.9	4.0	5.0	6.4	8.0	9.5	9.5	9.5	11.1	15.1	–	12.7	19.0	23.8	27.8	31.8	35.7	–
400	16	406.4	7.9	4.5	5.0	6.4	8.0	9.5	9.5	9.5	12.7	16.1	–	12.7	21.4	26.2	30.9	36.5	40.5	–
450	18	457.2	7.9	4.5	5.0	6.4	8.0	11.1	9.5	9.5	14.3	19.0	–	12.7	23.8	29.4	34.9	39.7	45.2	–
500	20	508.0	7.9	5.0	5.5	6.4	9.5	12.7	9.5	9.5	15.1	20.6	–	12.7	26.2	32.5	38.1	44.4	50.0	–
550	22	558.8	–	5.0	5.5	6.4	9.5	12.7	9.5	9.5	15.9	22.2	–	12.7	28.6	34.9	41.3	47.6	54.0	–
600	24	609.6	–	5.5	6.5	6.4	9.5	14.3	9.5	9.5	17.5	24.6	–	12.7	31.0	38.9	46.0	52.4	59.5	–
650	26	660.4	–	5.5	8.0	7.9	12.7	–	–	9.5	–	–	–	12.7	34.0	–	–	–	–	–
700	28	711.2	–	5.5	8.0	7.9	12.7	15.9	–	9.5	17.5	–	–	12.7	–	–	–	–	–	–
750	30	762.0	–	6.5	8.0	7.9	12.7	15.9	9.5	9.5	17.5	–	–	12.7	–	–	–	–	–	–
800	32	812.8	–	–	8.0	7.9	12.7	15.9	–	9.5	17.5	–	–	12.7	–	–	–	–	–	–
850	34	863.6	–	–	8.0	7.9	12.7	15.9	–	9.5	17.5	–	–	12.7	–	–	–	–	–	–
900	36	914.4	–	–	8.0	7.9	12.7	15.9	–	9.5	19.1	–	–	12.7	–	–	–	–	–	–
950	38	965.2	–	–	–	–	–	–	–	9.5	–	–	–	12.7	–	–	–	–	–	–
1000	40	1016.0	–	–	9.5	–	14.3	–	–	9.5	26.2	–	–	12.7	–	–	–	–	–	–
1050	42	1066.8	–	–	–	–	–	–	–	9.5	–	–	–	12.7	–	–	–	–	–	–
1100	44	1117.6	–	–	–	–	–	–	–	9.5	–	–	–	12.7	–	–	–	–	–	–
1150	46	1168.4	–	–	–	–	–	–	–	9.5	–	–	–	12.7	–	–	–	–	–	–
1200	48	1219.2	–	–	–	–	–	–	–	9.5	–	–	–	12.7	–	–	–	–	–	–

SCH5s, 10s, 20s, 40s, 80s applies for stainless steel fittings.

ANSI flat welded steel pipe flange with neck SO(ASME B16.5, HG20616-97)

Flange



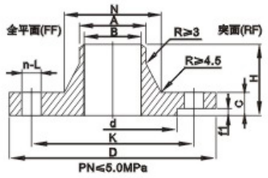
PN2.0MPa(Class 150) ANSI B16.5, Slip On Forged Flange

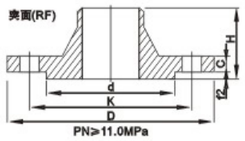
Nominal Diaeter		Pipe Outside Diameter	Link Size					Seal Surface Size		Flange Thickness	Flange Inside	Flange Neck	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Number of bolt holes	Thread							
NPS(in)	DN	A	D	K	L	n	Th	Raised face d	Plat form height f1	C	D	N	H	(kg)
1/2	15	21.3	90	60.5	16	4	M14	35	1.6	11.5	22	30	16	0.41
3/4	20	26.9	100	70	16	4	M14	43	1.6	13	27.5	38	16	0.58
1	25	33.7	110	79.5	16	4	M14	51	1.6	14.5	34.5	49	17	0.80
1 1/4	32	42.4	120	89	16	4	M14	63.5	1.6	16	43.5	59	21	1.07
1 1/2	40	48.3	130	98.5	16	4	M14	73	1.6	17.5	49.5	65	22	1.37
2	50	60.3	150	120.5	18	4	M16	92	1.6	19.5	61.5	78	25	2.01
2 1/2	65	76.1	180	139.5	18	4	M16	105	1.6	22.5	77.5	90	29	3.32
3	80	88.9	190	152.5	18	4	M16	127	1.6	24	90.5	108	30	3.83
4	100	114.3	230	190.5	18	8	M16	157.5	1.6	24	116	135	33	5.40
5	125	139.7	255	216	22	8	M20	186	1.6	24	141.5	164	36	6.26
6	150	168.3	280	241.5	22	8	M20	216	1.6	25.5	170.5	192	40	7.50
8	200	219.1	345	298.5	22	8	M20	270	1.6	29	221.5	246	44	12.3
10	250	273	405	362	26	12	M24	324	1.6	30.5	276.5	305	49	16.2
12	300	323.9	485	432	26	12	M24	381	1.6	32	327.5	365	56	26.5
14	350	355.6	535	476	29.5	12	M27	413	1.6	35	359.5	400	57	34.5
16	400	406.4	600	540	29.5	16	M27	470	1.6	37	411	457	64	45.5
18	450	457	635	578	32.5	16	M30	533.5	1.6	40	462	505	68	48.5
20	500	508	700	635	32.5	20	M30	584	1.6	43	513.5	559	73	61.8
24	600	610	815	749.5	35.5	20	M33	692	1.6	48	616.5	664	83	87.7

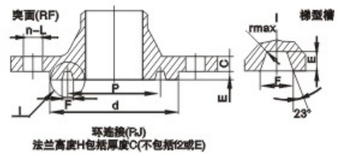
PN5.0MPa(Class 300) ANSI B16.5, Slip On Forged Flange

Nominal Diaeter		Pipe Outside Diameter	Link Size					Seal Surface Size		Flange Thickness	Flange Inside	Flange Neck	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Number of bolt holes	Thread							
NPS(in)	DN	A	D	K	L	n	Th	Raised face d	Plat form height f1	C	D	N	H	(kg)
1/2	15	21.3	95	66.5	16	4	M14	35	1.6	14.5	22	38	22	0.63
3/4	20	26.9	120	82.5	18	4	M16	43	1.6	16	27.5	48	25	1.16
1	25	33.7	125	89	18	4	M16	51	1.6	17.5	34.5	54	27	1.37
1 1/4	32	42.4	135	98.5	18	4	M16	63.5	1.6	19.5	43.5	64	27	1.75
1 1/2	40	48.3	155	114.5	22	4	M20	73	1.6	21	49.5	70	30	2.47
2	50	60.3	165	127	18	8	M16	92	1.6	22.5	61.5	84	33	2.90
2 1/2	65	76.1	190	149	22	8	M20	105	1.6	25.5	77.5	100	38	4.17
3	80	88.9	210	168.5	22	8	M20	127	1.6	29	90.5	118	43	5.92
4	100	114.3	255	200	22	8	M20	157.5	1.6	32	116	146	48	9.73
5	125	139.7	280	235	22	8	M20	186	1.6	35	141.5	178	51	12.4
6	150	168.3	320	270	22	12	M20	216	1.6	37	170.5	206	52	16.0
8	200	219.1	380	330	26	12	M24	270	1.6	41.5	221.5	260	62	23.9
10	250	273	445	387.5	29.5	16	M27	324	1.6	48	276.5	321	67	34.0
12	300	323.9	520	451	32.5	16	M30	381	1.6	51	327.5	375	73	49.1
14	350	355.6	585	514.5	32.5	20	M30	413	1.6	54	359.5	426	76	69.1
16	400	406.4	650	571.5	35.5	20	M33	470	1.6	57.5	411	483	83	88.9
18	450	457	710	628.5	35.5	24	M33	533.5	1.6	60.5	462	533	89	107.2
20	500	508	775	686	35.5	24	M33	584	1.6	63.5	513.5	587	95	132.9
24	600	610	915	813	42	24	M39×3	692	1.6	70	616.5	702	104	198.7

ANSI flat welded steel pipe flange with neck SO(ASME B16.5, HG20616-97)







注：带颈对焊法兰的锥颈斜度应不大于45° 且应具有斜度不大于7° 的直边段，直边段长度不小于7mm。

PN2.0MPa(Class 150) ANSI B16.5, Welding Neck Forged Flange

Nominal Diaeter		Pipe Outside Diameter	Link Size					Seal Surface Size		Flange Thickness	Flange Inside	Flange Neck	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Number of bolt holes	Thread							
NPS(in)	DN	A	D	K	L	n	Th	Raised face d	Plat form height f1	C	D	N	H	(kg)
1/2	15	21.3	90	60.5	16	4	M14	35	1.6	11.5	15.5	30	48	0.91
3/4	20	26.9	100	70	16	4	M14	43	1.6	13	21	38	52	0.91
1	25	33.7	110	79.5	16	4	M14	51	1.6	14.5	27	49	56	1.14
1 1/4	32	42.4	120	89	16	4	M14	63.5	1.6	16	35	59	57	1.14
1 1/2	40	48.3	130	98.5	16	4	M14	73	1.6	17.5	41	65	62	1.81
2	50	60.3	150	120.5	18	4	M16	92	1.6	19.5	52	78	64	2.72
2 1/2	65	76.1	180	139.5	18	4	M16	105	1.6	22.5	66	90	70	4.45
3	80	88.9	190	152.5	18	4	M16	127	1.6	24	77.5	108	70	5.22
4	100	114.3	230	190.5	18	8	M16	157.5	1.6	24	101.5	135	76	7.49
5	125	139.7	255	216	22	8	M20	186	1.6	24	127	164	89	9.53
6	150	168.3	280	241.5	22	8	M20	216	1.6	25.5	154	192	89	11.8
8	200	219.1	345	298.5	22	8	M20	270	1.6	29	203	246	102	19.1
10	250	273	405	362	26	12	M24	324	1.6	30.5	255	305	102	24.5
12	300	323.9	485	432	26	12	M24	381	1.6	32	303.5	365	114	39.9
14	350	355.6	535	476	29.5	12	M27	413	1.6	35	333.5	400	127	51.8
16	400	406.4	600	540	29.5	16	M27	470	1.6	37	381	457	127	64.5
18	450	457	635	578	32.5	16	M30	533.5	1.6	40	428.5	505	140	74.9
20	500	508	700	635	32.5	20	M30	584	1.6	43	476	559	145	89.4
22	550	559	750	692	35.5	20	M33	641	1.6	46	525	610	149	103.5
24	600	610	815	749.5	35.5	20	M33	692	1.6	48	575	664	152	121.7

PN5.0MPa(Class 300) ANSI B16.5, Welding Neck Forged Flange

Nominal Diaeter		Pipe Outside Diameter	Link Size					Seal Surface Size		Flange Thickness	Flange Inside	Flange Neck	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Number of bolt holes	Thread							
NPS(in)	DN	A	D	K	L	n	Th	Raised face d	Plat form height f1	C	D	N	H	(kg)
1/2	15	21.3	95	66.5	16	4	M14	35	1.6	14.5	15.5	38	52	0.91
3/4	20	26.9	120	82.5	18	4	M16	43	1.6	16	21	48	57	1.36
1	25	33.7	125	89	18	4	M16	51	1.6	17.5	27	54	62	1.82
1 1/4	32	42.4	135	98.5	18	4	M16	63.5	1.6	19.5	35	64	65	2.27
1 1/2	40	48.3	155	114.5	22	4	M20	73	1.6	21	41	70	68	3.18
2	50	60.3	165	127	18	8	M16	92	1.6	22.5	52	84	70	3.36
2 1/2	65	76.1	190	149	22	8	M20	105	1.6	25.5	66	100	76	5.45
3	80	88.9	210	168.5	22	8	M20	127	1.6	29	77.5	118	79	8.17
4	100	114.3	255	200	22	8	M20	157.5	1.6	32	101.5	146	86	12.1
5	125	139.7	280	235	22	8	M20	186	1.6	35	127	178	98	16.3
6	150	168.3	320	270	22	12	M20	216	1.6	37	154	206	98	20.4
8	200	219.1	380	330	26	12	M24	270	1.6	41.5	203	260	111	31.3
10	250	273	445	387.5	29.5	16	M27	324	1.6	48	255	321	117	45.4
12	300	323.9	520	451	32.5	16	M30	381	1.6	51	303.5	375	130	64.5
14	350	355.6	585	514.5	32.5	20	M30	413	1.6	54	323.5	426	143	93.5
16	400	406.4	650	571.5	35.5	20	M33	470	1.6	57.5	371	483	146	113.1
18	450	457	710	628.5	35.5	24	M33	533.5	1.6	60.5	417	533	159	138.9
20	500	508	775	686	35.5	24	M33	584	1.6	63.5	468	587	162	167.5
22	550	559	840	743	42	24	M39×3	641	1.6	66.5	509	640	165	199.4
24	600	610	915	813	42	24	M39×3	692	1.6	70	560	702	168	235.6

ANSI neck butt welding steel pipe flange

PN2.0MPa(Class 600) ANSI B16.5, Welding Neck Forged Flange

Nominal Diaeter		Outer diameter of steel pipe (outer diameter of flange welding end)	Link Size					Flange Thickness	Flange neck big end	Flange inner diameter	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Thread	Number of bolt holes					
DN	NPS	A	D	K	L	Th	n	C	N	B	H	(kg)
15	1/2	21.3	95	66.7	16	M14	4	14.3	38	–	52	1.36
20	3/4	26.9	115	82.6	18	M16	4	15.9	48	–	57	1.59
25	1	33.7	125	88.9	18	M16	4	17.5	54	–	62	1.82
32	1 1/4	42.4	135	98.4	18	M16	4	20.7	64	–	67	2.50
40	1 1/2	48.3	155	114.3	22	M20	4	22.3	70	–	70	3.63
50	2	60.3	165	127.0	18	M16	8	25.4	84	–	73	4.54
65	2 1/2	76.1	190	149.2	22	M20	8	28.6	100	–	79	6.36
80	3	88.9	210	168.3	22	M20	8	31.8	117	–	83	10.3
100	4	114.3	275	215.9	26	M24	8	38.1	152	–	102	16.8
125	5	139.7	330	266.7	30	M27	8	44.5	189	–	114	30.9
150	6	168.3	355	292.1	30	M27	12	47.7	222	–	117	33.1
200	8	219.1	420	349.2	33	M30	12	55.6	273	–	133	50.9
250	10	273	510	431.8	36	M33	16	63.5	343	–	152	85.8
300	12	323.9	560	489	36	M33	20	66.7	409	–	156	102.6
350	14	355.6	605	527	39	M36×3	20	69.9	432	–	165	157.5
400	16	406.4	685	603.2	42	M39×3	20	76.2	495	–	178	218.4
450	18	457	745	654	45	M42×3	20	82.6	546	–	184	252.0
500	20	508	815	723.9	45	M42×3	24	88.9	610	–	190	313.2
600	24	610	940	838.2	51	M48×3	24	101.6	718	–	203	443.6

PN5.0MPa(Class 900) ANSI B16.5, Welding Neck Forged Flange

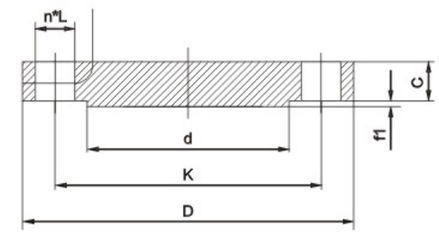
Nominal Diaeter		Outer diameter of steel pipe (outer diameter of flange welding end)	Link Size					Flange Thickness	Flange neck big end	Flange inner diameter	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Thread	Number of bolt holes					
DN	NPS	A	D	K	L	Th	n	C	N	B	H	(kg)
15	1/2	21.3	120	82.6	22	M20	4	22.3	38	–	60	3.18
20	3/4	26.9	130	88.9	22	M20	4	25.4	44	–	70	3.18
25	1	33.7	150	101.6	26	M24	4	28.6	52	–	73	3.86
32	1 1/4	42.4	160	111.1	26	M24	4	28.6	64	–	73	4.54
40	1 1/2	48.3	180	123.8	30	M27	4	31.8	70	–	83	6.36
50	2	60.3	215	165.1	26	M24	8	38.1	105	–	102	10.9
65	2 1/2	76.1	245	190.5	30	M27	8	41.3	124	–	105	16.3
80	3	88.9	240	190.5	26	M24	8	38.1	127	–	102	13.2
100	4	114.3	290	235.0	33	M30	8	44.5	159	–	114	23.2
125	5	139.7	350	279.4	36	M33	8	50.8	190	–	127	39.1
150	6	168.3	380	317.5	33	M30	12	55.6	235	–	140	49.9
200	8	219.1	470	393.7	39	M36×3	12	63.5	298	–	162	84.9
250	10	273	545	469.9	39	M36×3	16	69.9	368	–	184	121.7
300	12	323.9	610	533.4	39	M36×3	20	79.4	419	–	200	168.9
350	14	355.6	640	558.8	42	M39×3	20	85.8	451	–	213	255.2
400	16	406.4	705	616	45	M42×3	20	88.9	508	–	216	311.0
450	18	457	785	685.8	51	M48×3	20	101.6	565	–	229	419.5
500	20	508	855	749.3	55	M52×3	20	108	622	–	248	528.5
600	24	610	1040	901.7	68	M64×3	20	139.7	749	–	267	956.6

PN2.0MPa(Class 1500) ANSI B16.5, Welding Neck Forged Flange

Nominal Diaeter		Outer diameter of steel pipe (outer diameter of flange welding end)	Link Size					Flange Thickness	Flange neck big end	Flange inner diameter	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Thread	Number of bolt holes					
DN	NPS	A	D	K	L	Th	n	C	N	B	H	(kg)
15	1/2	21.3	120	82.6	22	M20	4	22.3	38	–	60	3.18
20	3/4	26.9	130	88.9	22	M20	4	25.4	44	–	70	3.18
25	1	33.7	150	101.6	26	M24	4	28.6	52	–	73	3.86
32	1 1/4	42.4	160	111.1	26	M24	4	28.6	64	–	73	4.54
40	1 1/2	48.3	180	123.8	30	M27	4	31.8	70	–	83	6.36
50	2	60.3	215	165.1	26	M24	8	38.1	105	–	102	10.9
65	2 1/2	76.1	245	190.5	30	M27	8	41.3	124	–	105	16.34
80	3	88.9	265	203.2	33	M30	8	47.7	133	–	117	21.8
100	4	114.3	310	241.3	36	M33	8	54	162	–	124	31.3
125	5	139.7	375	292.1	42	M39×3	8	73.1	197	–	156	59.9
150	6	168.3	395	317.5	39	M36×3	12	82.6	229	–	171	74.5
200	8	219.1	485	393.7	45	M42×3	12	92.1	292	–	213	123.9
250	10	273	585	482.6	51	M48×3	12	108	368	–	254	206.1
300	12	323.9	675	571.5	55	M52×3	16	123.9	451	–	283	313.3
350	14	355.6	750	635	60	M56×3	16	133.4	495	–	298	406.5
400	16	406.4	825	704.8	68	M64×3	16	146.1	552	–	311	525
450	18	457	915	774.7	74	M70×3	16	162	597	–	327	687.2
500	20	508	985	831.8	80	M76×3	16	177.8	641	–	356	852.6
600	24	610	1170	990.6	94	M90×3	16	203.2	762	–	406	1366.8

PN5.0MPa(Class 2500) ANSI B16.5, Welding Neck Forged Flange

Nominal Diaeter		Outer diameter of steel pipe (outer diameter of flange welding end)	Link Size					Flange Thickness	Flange neck big end	Flange inner diameter	Flange Hight	Approx Weight
			Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Thread	Number of bolt holes					
DN	NPS	A	D	K	L	Th	n	C	N	B	H	(kg)
15	1/2	21.3	135	88.9	22	M20	4	30.2	43	–	73	3.63
20	3/4	26.9	140	95.2	22	M20	4	31.8	51	–	79	4.09
25	1	33.7	160	108	26	M24	4	35	57	–	89	5.9
32	1 1/4	42.4	185	130.2	30	M27	4	38.1	73	–	95	9.08
40	1 1/2	48.3	205	146	33	M30	4	44.5	79	–	111	12.7
50	2	60.3	235	171.4	30	M27	8	50.9	95	–	127	19.1
65	2 1/2	76.1	265	196.8	33	M30	8	57.2	114	–	143	23.6
80	3	88.9	305	228.6	36	M33	8	66.7	133	–	168	42.7
100	4	114.3	355	273	42	M39×3	8	76.2	165	–	190	66.3
125	5	139.7	420	323.8	48	M45×3	8	92.1	203	–	229	110.8
150	6	168.3	485	368.3	55	M52×3	8	108	235	–	273	171.6
200	8	219.1	550	438.2	55	M52×3	12	127	305	–	318	261.5
250	10	273	675	539.8	68	M64×3	12	165.1	375	–	419	484.9
300	12	323.9	760	619.1	74	M70×3	12	184.2	441	–	464	730.1



Class 150(PN20) Forged blind flange

Unit: mm

Nominal Diaeter		Link Size					Flange Thickness	Approx Weight
		Flange outer diameter	Bolt hole center circle diameter	Bolt hole diameter	Thread	Number of bolt holes		
DN	NPS	D	K	L	Th	n	C	(kg)
15	1/2	90	60.3	16	M14	4	9.6	0.43
20	3/4	100	69.9	16	M14	4	11.2	0.63
25	1	110	79.4	16	M14	4	12.7	0.89
32	1 1/4	115	88.9	16	M14	4	14.3	1.20
40	1 1/2	125	98.4	16	M14	4	15.9	1.58
50	2	150	120.7	18	M16	4	17.5	2.39
65	2 1/2	180	139.7	18	M16	4	20.7	4.07
80	3	190	152.4	18	M16	4	22.3	4.92
100	4	230	190.5	18	M16	8	22.3	7.13
125	5	255	215.9	22	M20	8	22.3	8.72
150	6	280	241.3	22	M20	8	23.9	11.4
200	8	345	298.58	22	M20	8	27	20.1
250	10	405	362	26	M24	12	28.6	28.7
300	12	485	431.8	26	M24	12	30.2	43.3
350	14	535	476.3	30	M27	12	33.4	58.2
400	16	595	539.8	30	M27	16	35	77.4
450	18	635	577.9	33	M30	16	38.1	94.0
500	20	700	635	33	M30	20	41.3	122.7
600	24	815	749.3	36	M33	20	46.1	187.0

ANSI B16.5, Forged Blind Flange

Class 300(PN50) Forged blind flange

Unit: mm

Nominal Diaeter		Link Size					Flange Thickness	Approx Weight
		Flange outer diameter	Bolt hole center cirde diameter	Bolt hole diameter	Thread	Number of bolt holes		
DN	NPS	D	K	L	Th	n	C	(kg)
15	1/2	95	66.7	16	M14	4	12.7	0.63
20	3/4	115	82.6	18	M14	4	14.3	1.15
25	1	125	88.9	18	M16	4	15.9	1.40
32	1 1/4	135	98.4	18	M16	4	17.5	1.88
40	1 1/2	155	114.3	22	M20	4	19.1	2.65
50	2	165	127	18	M16	8	20.7	3.22
65	2 1/2	190	149.2	22	M20	8	23.9	4.80
80	3	210	168.3	22	M20	8	27	6.89
100	4	255	200	22	M20	8	30.2	11.5
125	5	280	235	22	M20	8	33.4	15.6
150	6	320	269.9	22	M20	12	35	21.4
200	8	380	330.2	26	M24	12	39.7	34.1
250	10	445	387.4	30	M27	16	46.1	53.5
300	12	520	450.8	33	M30	16	49.3	78.3
350	14	585	514.4	33	M30	20	52.4	105
400	16	650	571.5	36	M33	20	55.6	138.6
450	18	710	628.6	36	M33	24	58.8	174.3
500	20	775	685.8	36	M33	24	62	220.4
600	24	915	812.8	42	M39×3	24	68.3	339

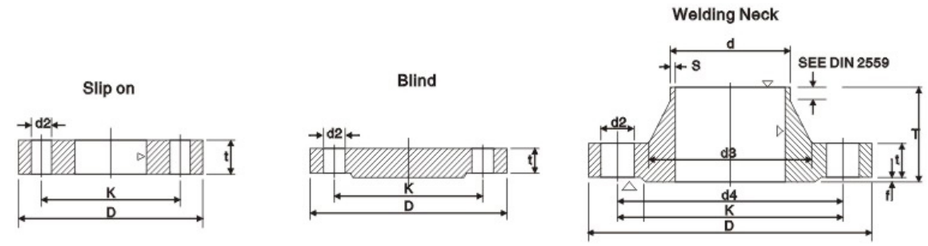
Class 600(PN110) Forged blind flange

Unit: mm

Nominal Diaeter		Link Size					Flange Thickness	Approx Weight
		Flange outer diameter	Bolt hole center cirde diameter	Bolt hole diameter	Thread	Number of bolt holes		
DN	NPS	D	K	L	Th	n	C	(kg)
15	1/2	95	66.7	16	M14	4	14.3	0.77
20	3/4	115	82.6	18	M16	4	15.9	1.37
25	1	125	88.9	18	M16	4	17.5	1.66
32	1 1/4	135	98.4	18	M16	4	20.7	2.36
40	1 1/2	155	114.3	22	M20	4	22.3	3.29
50	2	165	127	18	M16	8	25.4	4.24
65	2 1/2	190	149.2	22	M20	8	28.6	6.23
80	3	210	168.3	22	M20	8	31.8	8.63
100	4	275	215.9	26	M24	8	38.1	17.7
125	5	330	266.7	30	M27	8	44.5	29.4
150	6	355	292.1	30	M27	12	47.7	36.2
200	8	380	330.2	26	M24	12	34.1	59.1
250	10	445	387.4	30	M27	16	53.5	98.4
300	12	520	450.8	33	M30	16	78.3	125.3
350	14	585	514.4	33	M30	20	105	152.1
400	16	650	571.5	36	M33	20	138.6	214.1
450	18	710	628.6	36	M33	24	174.3	275.4
500	20	775	685.8	36	M33	24	220.4	352.4
600	24	915	812.8	42	M39×3	24	339	536.8

DIN flange 10Bar/DIN 2576 Slip-on Flagne/DIN2572 Blind flange/DIN2632 Welding neck flanges

Flange

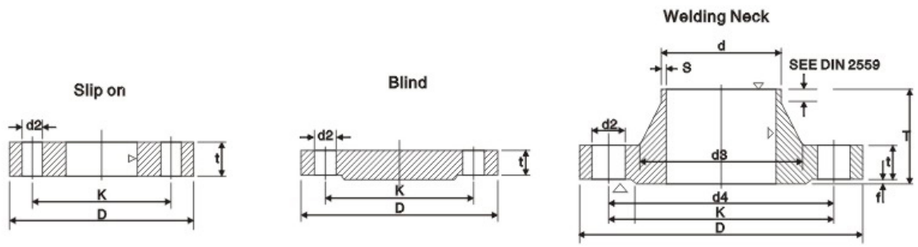


DIN Flange 10Bar

Unit: mm

Bore	d1	d2	Common Dimension					Hub					Raised Face		Drilling		Approx Weight(kg)		
			D	t			K	h1	d3	s	r	h2	d4	f	Number of Bolf	d2	DIN 2576	DIN 2632	DIN 2527
Nominal Bore				Welding Neck	Plat	Blind													
10	14 17.2	14.5 17.7	90	14	14	14	60	35	25	1.8	4	6	40	2	4	14	0.613 0.605	0.580	0.63
15	20 21.3	21 22	95	14	14	14	65	35	30	2	4	6	45	2	4	14	0.675 0.669	0.648	0.72
20	25 26.9	26 27.6	105	16	16	16	75	38	38	2.3	4	6	58	2	4	14	0.943 0.936	0.952	1.01
25	30 33.7	31 34.4	115	16	16	16	85	38	42	2.6	4	6	68	2	4	14	1.14 1.11	1.14	1.23
32	38 42.4	39 43.1	140	16	16	16	100	40	52	2.6	6	6	78	2	4	18	1.66 1.62	1.69	1.8
40	44.5 48.3	45.5 49	150	16	16	16	110	42	60	2.6	6	7	88	3	4	18	1.89 1.86	1.86	2.09
50	57 60.3	58.1 61.1	165	18	18	18	125	45	72	2.9	6	8	102	3	4	18	2.51 2.47	2.53	2.88
65	76.1	77.1	185	18	18	18	145	45	90	2.9	6	9	122	3	4	18	3	3.06	3.66
80	88.9	90.3	200	20	20	20	160	50	105	3.2	8	10	138	3	8	18	3.79	3.70	4.77
100	108 114.3	109.6 115.9	220	20	20	20	180	52	125	3.6	8	10	158	3	8	18	4.2 4.03	4.62	5.65
125	133 139.7	134.8 141.6	250	22	22	22	210	55	150	4	8	12	188	3	8	18	5.71 5.46	6.30	8.42
150	159 168.3	161.1 170.5	285	22	22	22	240	55	175	4.5	10	12	212	3	8	22	6.72 6.57	7.75	10.4
175	193.7	196.1	315	24	24	24	270	60	210	5.4	10	12	242	3	8	22	8.45	9.85	14
200	219.1	221.8	340	24	24	24	295	62	235	5.9	10	16	268	3	8	22	9.31	11.3	16
250	267 273	270.2 276.2	395	26	26	26	350	68	285 292	6.3	12	16	320	4	12	22	12.5 11.9	14.7	24

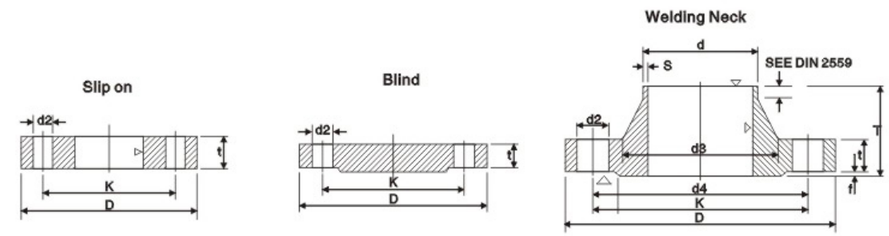
ANSI flat welded steel pipe flange with neck SO(ASME B16.5, HG20616-97)



DIN Flange 10Bar Unit: mm

Bore	d1	d2	Common Dimension					Hub					Raised Face		Drilling		Approx Weight(kg)		
Nominal Bore			D	t			K	h1	d3	s	r	h2	d4	f	Number of Bolf	d2	DIN 2576	DIN 2632	DIN 2527
				Welding Neck	Plat	Blind													
300	323.9	327.6	445	26	26	26	400	68	344	7.1	12	16	370	4	12	22	13.8	17.4	31.9
350	355.6 368	359.7 372.2	505	26	28	26	460	68	385	7.1	12	16	430	4	16	22	20.6 19	21.6	41.9
400	406.4 419	411 423.7	565	26	32	26	515	72	440	7.1	12	16	482	4	16	26	27.9 25.9	26.2	51.2
500	508	513.6	670	28	38	28	620	75	542	7.1	12	16	585	4	20	26	41.1	38.1	77.8
600	610	616.5	780	28	40		726	80	642	7.1	12	18	685	5	20	30	51.87	44.6	
700	711	716	895	30	40		840	80	745	8	12	18	800	5	24	30	65.79	62.4	
800	813	818	1015	32	44		950	90	850	8	12	18	905	5	24	33	90.87	84.1	
900	914	920	1115	34	48		1050	95	950	10	12	20	1005	5	28	33	108.41	98.5	
1000	1016	1022	1230	34	50		1160	95	1052	10	16	20	1110	5	28	36	133.21	115	
1200	1220	1226	1455	38	54		1380	115	1255	11	16	25	1330	5	32	39	188.2	182	
1400	1420	1426	1675	42	60		1590	120	1460	12	16	25	1535	5	36	42	262.14	248	
1600	1620	1626	1915	46	64		1820	130	1665	14	16	25	1760	5	40	48	367.43	347	
1800	1820	18226	2115	50	70		2020	140	1868	15	16	30	1960	5	44	48	447.79	430	
2000	2020	2026	2325	54	76		2230	150	2072	16	16	30	2170	5	48	48	577.77	539	
2200	2220	2226	2550	58	82		2440	160	2275	18	18	35	2370	6	52	56	699.88	658	
2400	2420	2426	2760	62	88		2650	170	2478	20	20	35	2570	6	56	56	844.48	825	
2600	2620	2626	2960	66	94		2850	180	2680	22	22	40	2780	6	60	56	972.23	979	
2800	2820	2826	3180	70	100		3070	190	882	22	22	40	3000	6	64	56	1187.1	1156	
3000	3020	3026	3405	75	106		3290	200	3085	24	24	45	3210	6	68	62	1422.06	1420	

DIN flange DIN 16Bar Flange/DIN2576 Slip-on Flagne/ DIN2527 Blind flange/DIN2633 Welding neck flanges



DIN Flange 16Bar Unit: mm

Bore	d1	d2	Common Dimension					Hub					Raised Face		Drilling		Approx Weight(kg)		
Nominal Bore			D	t			K	h1	d3	s	r	h2	d4	f	Number of Bolf	d2	DIN 2576	DIN 2631	DIN 2527
				Welding Neck	Plat	Blind													
10	14 17.2	14.5 17.7	90	14	14	14	60	35	25	1.8	4	6	40	2	4	14	0.613 0.605	0.580	0.63
15	20 21.3	21 22	95	14	14	14	65	35	30	2	4	6	45	2	4	14	0.675 0.669	0.648	0.72
20	25 26.9	26 27.6	105	16	16	16	75	38	38	2.3	4	6	58	2	4	14	0.943 0.936	0.952	1.01
25	30 33.7	31 34.4	115	16	16	16	85	38	42	2.6	4	6	68	2	4	14	1.14 1.11	1.14	1.23
32	38 42.4	39 43.1	140	16	16	16	100	40	52	2.6	6	6	78	2	4	18	1.66 1.62	1.69	1.8
40	44.5 48.3	45.5 49	150	16	16	16	110	42	60	2.6	6	7	88	3	4	18	1.89 1.86	1.86	2.09
50	57 60.3	58.1 61.1	165	18	18	18	125	45	72	2.9	6	8	102	3	4	18	2.51 2.47	2.53	2.88
65	76.1	77.1	185	18	18	18	145	45	90	2.9	6	9	122	3	4	18	3	3.06	3.66
80	88.9	90.3	200	20	20	20	160	50	105	3.2	8	10	138	3	8	18	3.79	3.70	4.77
100	108 114.3	109.6 115.9	220	20	20	20	180		125	3.6	8	10	158	3	8	18	4.2 4.03	4.62	5.65
125	133 139.7	134.8 141.6	250	22	22	22	210	55	150	4	8	12	188	3	8	18	5.71 5.46	6.30	8.42
150	159 168.3	161.1 170.5	285	22	22	22	240	55	175	4.5	10	12	212	3	8	22	6.72 6.57	7.75	10.4
175	193.7	196.1	315	24	24	24	270	60	210	5.4	10	12	242	3	8	22	8.45	9.85	14
200	219.1	221.8	340	24	24	24	295	62	235	5.9	10	16	268	3	12	22	9.31	11	16.1
250	267 273	270.2 276.2	405	26	26	26	355	70	285	6.3	12	16	320	3	12	26	13.4	15.6	24.9
300	323.9	327.6	395	28	28	28	410	78	344	7.1	12	16	378	4	12	26	17.4	22	35.1