

# SUNHY

BUILD WITH MIND · SERVE WITH HEART

## Stainless Steel Flanges & Fittings Product Catalogue

Precision-engineered flanges for the European industrial market — fully compliant with EN 1092-1, PED 2014/68/EU and ASME B16.5

TÜV Rheinland PED Certified

EN 1092-1 · ASME B16.5

EN 10204 3.1 MTC

Export to 30+ Countries

ISO 9001 Quality System

# About SUNHY

**Xingsheng Machinery Technology Co., Ltd.** (brand: SUNHY) is located in the Wenzhou Economic and Technological Development Zone, Zhejiang Province — the heart of China's stainless steel manufacturing industry.

Leveraging the complete industrial chain of the Wenzhou region, SUNHY integrates production, sales, and service to deliver high-quality flanges, pipe fittings, and valves to clients across Europe, the Middle East, and Southeast Asia.

Our manufacturing facility is equipped with advanced CNC machining centres, precision lathes, and a fully equipped quality inspection laboratory. Every product leaves our factory with a full material traceability record and, where required, an EN 10204 3.1 Mill Test Certificate.



**35+**  
Years of Experience

**30+**  
Export Countries

**500+**  
Product Specifications

**100%**  
PED Compliant

## OUR ADVANTAGES

### Why Choose SUNHY?



**Direct Manufacturer Pricing**

No intermediaries. Source directly from our factory and benefit from competitive pricing, full production visibility, and faster lead times of 30–45 days.



**Full European Compliance**

All products comply with EN 1092-1 and the EU Pressure Equipment Directive (PED 2014/68/EU), certified by TÜV Rheinland (Notified Body ID-No. 0035).



**EN 10204 3.1 MTC**

Every shipment is accompanied by a Type 3.1 Mill Test Certificate, providing full chemical composition and mechanical property traceability.



**Strict Quality Control**

In-house inspection laboratory with dimensional checks, PMI (Positive Material Identification), hardness testing, and hydrostatic pressure testing on request.



**Custom Manufacturing**

Non-standard dimensions, special alloys, and custom face finishes available. OEM and private-label services offered for qualified distributors.



**Global Export Experience**

Extensive experience shipping to Germany, the Netherlands, Scandinavia, the UK, and beyond. CBAM documentation available for all EU-bound shipments.

# Certifications & Standards

Our products and quality management systems are independently audited and certified by internationally recognised bodies.

## TÜV Rheinland — PED 2014/68/EU

Quality Management System for Manufacturer of Materials, audited in accordance with Directive 2014/68/EU Annex I, point 4.3. Scope: Manufacturing of Steel Flanges.

Certificate No.: 01 202 CHN/Q-24 0022.00 · Valid to: 2027-09-22 · Notified Body ID: 0035

## EN 10204 Type 3.1 — Mill Test Certificate

All materials are supplied with a Type 3.1 inspection certificate, confirming chemical composition, mechanical properties, and heat treatment condition per EN 10222-5 / ASTM A182.

Material grades: 1.4307 · 1.4401 · 1.4404 · 1.4462 · SA-182 F304L/F316L/F51/F53/F55/F60

## ISO 9001 — Quality Management System

Our production and quality management processes are certified to ISO 9001, ensuring consistent product quality and continuous improvement across all operations.

Scope: Design, Manufacture and Supply of Flanges & Pipe Fittings

## CBAM — Carbon Border Adjustment Mechanism

We are fully prepared to provide the carbon emission documentation required under the EU CBAM regulation (effective 2026) for all steel products exported to the EU.

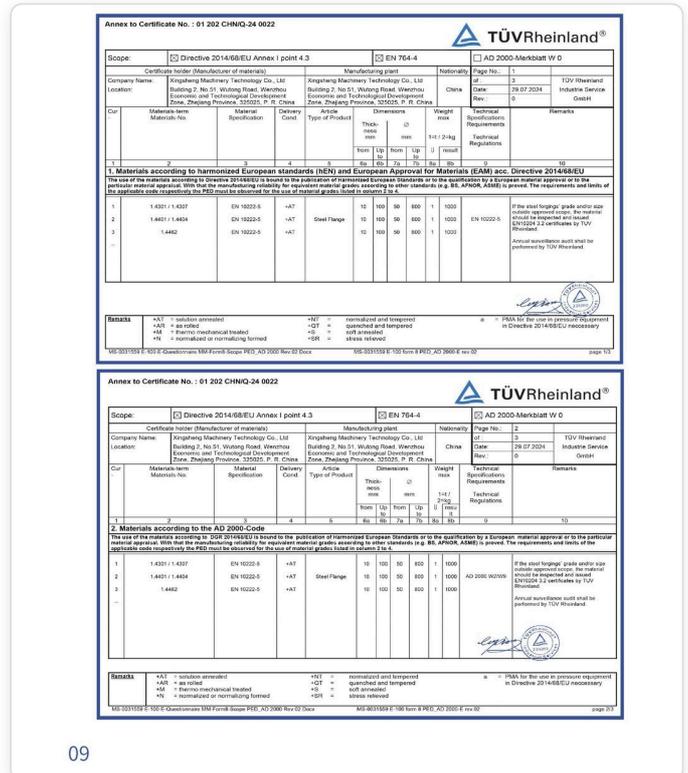
HS Codes: 7307.21 · 7307.22 · 7307.23 · 7307.99

### TÜV Rheinland PED 2014/68/EU Certificate — Original Document



Cert. No. 01 202 CHN/Q-24 0022.00 · Valid to 2027-09-22

### EN 10204 Type 3.1 — Annex to Certificate



09

Approved grades: 1.4307 · 1.4401 · 1.4404 · 1.4462 · SA-182 F304L/F316L/F51/F53/F55/F60

# EN 1092-1 Stainless Steel Flanges

A comprehensive range of flange types manufactured to EN 1092-1:2018, available in PN6 through PN40 and DN10 through DN600.



**EN 1092-1 TYPE 11**

**Weld Neck Flange (WN)**

Size Range **DN10 – DN600**

Pressure **PN6 / PN10 / PN16 / PN25 / PN40**

Material **304L · 316L · 321 · Duplex**

Face Type **FF · RF · RTJ**



**EN 1092-1 TYPE 05**

**Blind Flange (BL)**

Size Range **DN10 – DN600**

Pressure **PN6 / PN10 / PN16 / PN25 / PN40**

Material **304L · 316L · 321 · Duplex**

Face Type **FF · RF · RTJ**



**EN 1092-1 TYPE 01**

**Plate / Flat Weld Flange**

Size Range **DN10 – DN600**

Pressure **PN6 / PN10 / PN16 / PN25 / PN40**

Material **304L · 316L · 321**

Face Type **FF · RF**



**EN 1092-1 TYPE 02**

**Loose / Lap Joint Flange**

Size Range **DN10 – DN400**

Pressure **PN6 / PN10 / PN16 / PN25 / PN40**

Material **304L · 316L**

Face Type **FF · RF**



**EN 1092-1 TYPE 13**

**Socket Weld Flange (SW)**

Size Range **DN10 – DN100**

Pressure **PN16 / PN25 / PN40 / PN63 / PN100**

Material **304L · 316L · 321**

Face Type **FF · RF**



**EN 1092-1 TYPE 13T**

**Threaded Flange (TH)**

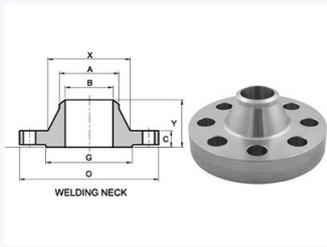
Size Range **DN10 – DN100**

Pressure **PN16 / PN25 / PN40**

Material **304L · 316L**

Thread **BSP / NPT / Metric**

# ASME B16.5 Flanges & Pipe Fittings



**ASME B16.5**  
**Weld Neck Flange**

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Size Range **1/2" – 24"**

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Pressure **150 / 300 / 600 / 900 / 1500**  
 Class **/ 2500**

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Material **A182 F304L / F316L / F51 / F53**

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Face Type **RF · RTJ · FF**



**ASME B16.5**  
**Blind Flange**

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Size Range **1/2" – 24"**

---

Pressure **150 / 300 / 600 / 900 / 1500**  
 Class **/ 2500**

---

Material **A182 F304L / F316L / F51 / F53**

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Face Type **RF · RTJ · FF**



**ASME B16.9 / B16.28**  
**Butt Weld Fittings**

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Types **Elbow · Tee · Reducer · Cap**

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Size Range **1/2" – 48"**

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Schedule **SCH10S / SCH40S / SCH80S**

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Material **304L · 316L · 321 · Duplex**

## APPLICATIONS

### Industries We Serve



**Oil & Gas**  
 Upstream, midstream & downstream



**Chemical**  
 Process plants & reactors



**Water Treatment**  
 Desalination & utilities



**Power Generation**  
 Steam & thermal systems



**Food & Beverage**  
 Hygienic & sanitary grade



**Marine**  
 Offshore & shipbuilding



**Construction**  
 Infrastructure & HVAC



**Pulp & Paper**  
 Corrosion-resistant systems

# Dimension Tables

## EN 1092-1 Type 11 Weld Neck Flange — PN16 (mm)

DN	D (OD)	b (Thk)	K (BCD)	d2 (Hole)	n (Holes)	Bolt	d1 (Bore)	Weight (kg)
15	95	14	65	14	4	M12	18	0.36
20	105	16	75	14	4	M12	24	0.52
25	115	16	85	14	4	M12	30	0.63
32	140	18	100	18	4	M16	38	1.00
40	150	18	110	18	4	M16	45	1.15
50	165	18	125	18	4	M16	57	1.50
65	185	18	145	18	4	M16	73	2.10
80	200	20	160	18	8	M16	89	2.80
100	220	20	180	18	8	M16	108	3.50
125	250	22	210	18	8	M16	133	5.20
150	285	22	240	22	8	M20	159	7.10
200	340	24	295	22	8	M20	219	11.5
250	395	26	350	22	12	M20	273	17.2
300	445	26	400	22	12	M20	324	22.8
350	505	26	460	22	16	M20	356	29.5
400	565	26	515	26	16	M24	406	38.0

\* All dimensions in mm. Tolerances per EN 1092-1:2018. Custom sizes available on request.

## EN 1092-1 Type 05 Blind Flange — PN10/16 (mm)

DN	D (OD)	b (Thk)	K (BCD)	d2 (Hole)	n (Holes)	Bolt	Weight PN10 (kg)	Weight PN16 (kg)
15	95	14	65	14	4	M12	0.30	0.30
25	115	16	85	14	4	M12	0.55	0.55
50	165	16	125	18	4	M16	1.30	1.30
65	185	18	145	18	4	M16	3.64	3.64
80	200	20	160	18	8	M16	2.60	2.60
100	220	20	180	18	8	M16	3.50	3.50
150	285	22	240	22	8	M20	6.80	6.80
200	340	24	295	22	8	M20	10.8	10.8
250	395	26	350	22	12	M20	16.5	16.5
300	445	26	400	22	12	M20	22.0	22.0
400	565	28	515	26	16	M24	38.5	38.5

# Material Grades

## Austenitic Stainless Steel — Standard Grades

EN Grade	AISI	UNS	C max	Cr	Ni	Mo	Tensile (MPa)	Yield (MPa)
1.4307	304L	S30403	0.030	17.5–19.5	8.0–10.0	—	≥485	≥170
1.4401	316	S31600	0.070	16.5–18.5	10.0–13.0	2.0–2.5	≥515	≥205
1.4404	316L	S31603	0.030	16.5–18.5	10.0–13.0	2.0–2.5	≥485	≥170
1.4541	321	S32100	0.080	17.0–19.0	9.0–12.0	—	≥515	≥205

## Duplex & Super Duplex Stainless Steel

EN Grade	ASTM	UNS	Cr	Ni	Mo	N	PREN	Tensile (MPa)
1.4462	F51	S31803	21–23	4.5–6.5	2.5–3.5	0.08–0.20	≥34	≥620
1.4410	F53	S32750	24–26	6.0–8.0	3.0–5.0	0.24–0.32	≥41	≥800
1.4501	F55	S32760	24–26	6.0–8.0	3.0–4.0	0.20–0.30	≥40	≥750

QUALITY ASSURANCE PROCESS

## Our 6-Step Quality Process

**01**

**Raw Material Inspection**

PMI verification, heat number traceability, and MTC review for every incoming material batch.

**02**

**Forging & Forming**

Hot forging or plate cutting per EN 1092-1 / ASME B16.5, with controlled process parameters.

**03**

**CNC Machining**

Precision turning and drilling on CNC lathes to achieve dimensional tolerances per standard.

**04**

**Dimensional Inspection**

100% dimensional check using calibrated gauges; hardness testing per batch.

**05**

**Pickling & Passivation**

Full acid pickling and passivation per ASTM A380 / EN ISO 15730 for corrosion resistance.

**06**

**Final Inspection & MTC**

Visual, dimensional, and marking check. EN 10204 3.1 MTC issued and packed for shipment.

# Contact & Enquiry

We welcome enquiries from distributors, EPC contractors, and end users. Our team will respond within 24 hours with a detailed quotation.

## Company Information



Company

**Xingsheng Machinery Technology Co., Ltd.**



Brand

**SUNHY**



Address

**Wenzhou Economic & Technological  
Development Zone, Zhejiang Province, P.R.  
China**



Website

**www.sunhyings.com**



Email

**anna@sunhying.com**



WhatsApp / WeChat

**+86 — (please visit website)**



Nearest Port

**Ningbo / Shanghai (FOB)**

## Standard Enquiry Form

<b>Product Type</b>	<i>e.g. Weld Neck Flange / Blind Flange</i>
<b>Standard</b>	<i>e.g. EN 1092-1 / ASME B16.5</i>
<b>Size (DN / NPS)</b>	<i>e.g. DN50 / 2"</i>
<b>Pressure Rating</b>	<i>e.g. PN16 / Class 150</i>
<b>Material Grade</b>	<i>e.g. 1.4404 (316L) / A182 F316L</i>
<b>Face Type</b>	<i>e.g. Raised Face (RF)</i>
<b>Quantity</b>	<i>pcs / sets</i>
<b>Delivery Terms</b>	<i>e.g. FOB Ningbo / CIF Rotterdam</i>
<b>Certificate Required</b>	<i>e.g. EN 10204 3.1 MTC</i>
<b>Special Requirements</b>	<i>e.g. Hydro test, PMI, NACE</i>

### Ready to Source? Contact Us Today.

Send your enquiry to [anna@sunhying.com](mailto:anna@sunhying.com) or visit [www.sunhyings.com](http://www.sunhyings.com)

Lead Time: 30–45 days · MOQ: Flexible · Packing: Export standard wooden crate