RAJENDRA
INDUSTRIAL CORPORATION

Product catalog 2026



Flanges for US industry

# Forged steel flanges, made in India since 2000

ASME B16.5 and B16.47 flanges in stainless steel and carbon steel for oil and gas, process, power, water and building services piping, with a mill test report for every heat. Data center cooling is our specialty.

**NPS 1/2 to 24**

and ASME B16.47 Series A and B

**Class 150 to 2500**

raised face, flat face or RTJ

**316L, 304L, A105, LF2**

duplex and super duplex too

**EN 10204 3.1 and 3.2**

mill test reports, heat by heat

Who we are

# Forged, machined and tested at one works

Rajendra Industrial Corporation (RIC) has made stainless steel and carbon steel flanges and forged fittings since 2000. Bars are cut, forged, heat treated, pickled, machined, marked and tested at our works in Umbergaon, Gujarat.

For US projects we supply flanges to ASME and AWWA standards in the grades US specifications call for, with a mill test report (MTR) for every heat.



**2000**
Founded by Vikas Doshi; works at Umbergaon, Gujarat

**100+**
People at the works and the Mumbai head office

**9**
People in the quality team

**1.25 t**
Forging hammer, with 300 t and 150 t hydraulic presses

**45,000**
Square feet of works at Umbergaon

**400 kN**
Universal testing machine in our lab

**23**
Points on the final checklist before dispatch

**2509**
Flange drawings online, PDF and DXF

**Certificates held**

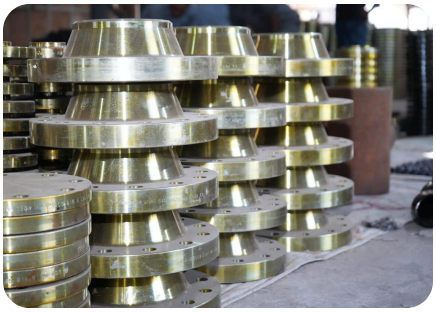
| Certificate | Issued by | Number | Valid to |
|---|---|---|---|
| **ISO 9001:2015** | TÜV NORD CERT GmbH | 44 100 20392915 | 13 Jul 2029 |
| **PED 2014/68/EU** | TÜV Rheinland Polska Sp. z o.o. | 01 2627 IN/M1-260026.00 | 10 May 2029 |
| **NORSOK M-650** | Gulf Lloyds Industrial Services (GLIS) | GLIS/RIC/2024/09/MMC-1414 | 14 Sep 2027 |
| **ISO 45001:2018** | Gulf Lloyds Business Assurance (GLBA) | 1011-OHSAS-BA-UK-04-6202-SIAC-002850-IN | 9 Apr 2029 |
| **ISO 29001:2020** | Gulf Lloyds Business Assurance (GLBA) | 1011-QMS-BA-UK-05-6202-SIAC-002873-IN | 9 Apr 2029 |

Where our flanges go

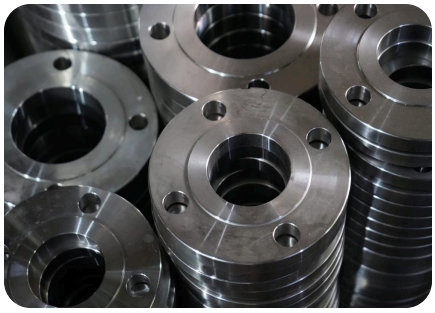
# Flanges for every US industry

The same forged flanges, specified in different grades and classes. Each industry has its own page on rajendradatacenter.us with the codes and line items it uses.

| Industry | What we supply |
|---|---|
| **Data center cooling** | 316L and 304L flanges for technology cooling and CDU piping, pickled and passivated; A105 for facility water, chilled water and condenser water |
| **Oil and gas** | Weld neck, blind and RTJ flanges in A105, LF2 and A694 high yield for pipelines and stations. |
| **Refining and petrochemical** | Weld neck, RTJ, orifice flanges and spectacle blinds to ASME B31.3, with PMI on every alloy flange. |
| **Power generation** | Weld neck flanges for steam, feedwater and cooling water to ASME B31.1, Class 150 to 2500. |
| **Water and wastewater** | AWWA C207 and C228 flanges for mains, ASME B16.5 and flat face flanges for the plant. |
| **Chemical processing** | Stainless, 904L, duplex and super duplex flanges for corrosive process piping. |
| **Pharmaceutical and biotech** | 316L and 304L flanges for clean utilities and process support, documented for validation. |
| **Food and beverage** | Stainless flanges for wash-down utilities, LF2 and A105 for ammonia refrigeration. |
| **HVAC and district energy** | Class 150 weld neck, slip-on and flat face flanges for chilled, condenser and hot water. |
| **Shipbuilding and offshore** | Duplex and super duplex flanges qualified to NORSOK M-650, plus 316L and carbon steel. |



Carbon steel weld neck flanges in the stores



Stainless steel flanges, machined and marked

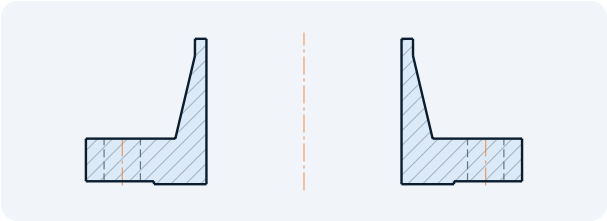


Flange stock at the Umbergaon works

The flange range

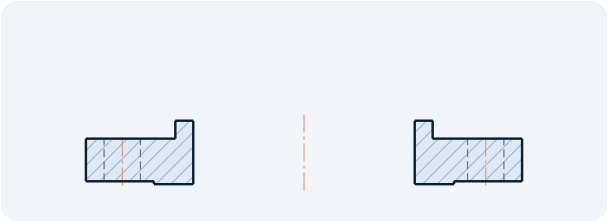
# Every type a piping system needs

Forged and machined to the standard, bored to your pipe schedule and marked with the heat number. NPS 1/2 to 24, plus B16.47 above NPS 24; Class 150 to 2500.



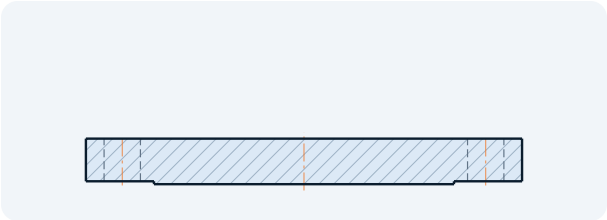
## Weld neck flanges

| | |
|---|---|
| Standards | ASME B16.5; B16.47 Series A and B; EN 1092-1 type 11 |
| Classes | Class 150 to 2500; Class 75 to 900 in B16.47; PN 6 to 100 |
| Bore | To the pipe schedule, every B36.10M and B36.19M wall |
| Facings | RF, FF, RTJ, tongue and groove |



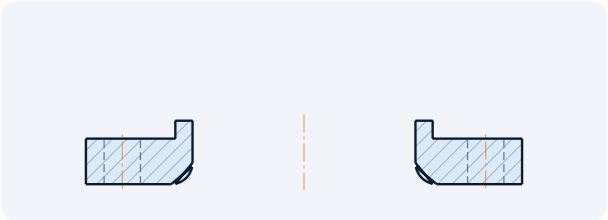
## Slip-on flanges

| | |
|---|---|
| Standards | ASME B16.5, with hub; EN 1092-1 type 01 plate |
| Classes | Class 150 to 900 with hub; plate in Class 150 and 300; PN 6 to 40 |
| Use | Low pressure water lines, easy alignment |
| Facings | RF or FF |



## Blind flanges

| | |
|---|---|
| Standards | ASME B16.5 and B16.47; EN 1092-1 type 05 |
| Classes | Class 150 to 2500; PN 6 to 100 |
| Use | Header ends, future tie-ins, test points |
| Facings | RF, FF, RTJ |



## Lap joint flanges

| | |
|---|---|
| Standards | ASME B16.5, with stub ends |
| Classes | Class 150 to 2500 |
| Use | Carbon steel ring over a stainless stub end: clean service at lower cost |
| Facings | Face on the stub end |

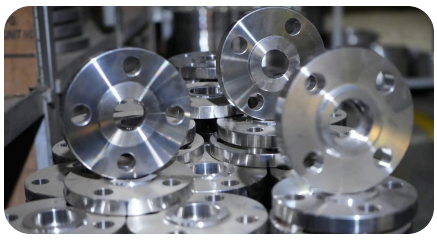
Sections of each type at NPS 4 Class 150, to the same scale. Every ASME B16.5 size and class has a dimensioned drawing to download at rajendradatacenter.us.



Socket weld flanges, 1 in Class 150



Slip-on flanges, 3 in Class 150, stamped



Stainless steel slip-on flanges

More types and standards

# From socket weld to spectacle blind

The rest of the range in RIC's catalog, made to the standard named and to your purchase order.

| Type | Standard | Typical use |
|---|---|---|
| **Socket weld flanges** | ASME B16.5 | Small bore lines, instrument and drain connections |
| **Threaded flanges** | ASME B16.5 | Where welding is not allowed |
| **Ring type joint flanges** | ASME B16.5, Class 150 to 2500 | High pressure joints with an R ring gasket |
| **Long weld neck flanges** | ASME B16.5 | Nozzles on vessels and headers |
| **High hub blind flanges** | ASME B16.5 | Blinds that take a nozzle or a thicker face |
| **Orifice flanges** | ASME B16.36, Class 300 to 2500 | Flow metering with pressure tappings |
| **Spectacle blinds, spacers and blanks** | ASME B16.48, Class 150 to 900 | Positive isolation |
| **Ring flanges for water mains** | AWWA C207 and C228 | Large water and condenser water mains |

## Standards

- ASME B16.5, NPS 1/2 to 24, Class 150 to 2500
- ASME B16.47 Series A and B, Class 75 to 900
- ASME B16.36 orifice flanges, Class 300 to 2500
- ASME B16.48 spectacle blinds, spacers and blanks, Class 150 to 900
- EN 1092-1 types 01 to 37, collars included, PN 6 to 100
- AWWA C207 and C228

## Facing, finish and marking

- Raised face, flat face, ring type joint, tongue and groove
- Stainless flanges pickled and passivated to ASTM A380 and A967 when ordered
- Bored to the pipe schedule: every ASME B36.10M and B36.19M wall
- Marked with the standard, size, class, grade and heat number
- Packed in wooden cases for export



Carbon steel and stainless steel flanges in the stores at Umbergaon

Materials

# The grade your specification names

Forgings in stainless, duplex and carbon steel, with chemistry and mechanical properties to the ASTM specification and the heat number on every flange.

| Material | Grade | Typical service |
|---|---|---|
| **Austenitic stainless steel** | ASTM A182 F304 and F304L (UNS S30400, S30403) | Water, food, pharma and building services |
| **Austenitic stainless steel** | ASTM A182 F316 and F316L (UNS S31600, S31603) | Chemical, pharma, marine and clean utilities |
| **Duplex stainless steel** | ASTM A182 F60 (UNS S32205) | Seawater and chloride service; NORSOK M-650 qualified |
| **Super duplex stainless steel** | ASTM A182 F53 (UNS S32750) | Offshore and seawater service; NORSOK M-650 qualified |
| **Carbon steel** | ASTM A105 (UNS K03504) | Oil and gas, power, water and HVAC |
| **Low temperature carbon steel** | ASTM A350 LF2 | Cold climates and low temperature service |



Heat and lot marking on a stainless flange



Flanges packed in wooden cases for export

Online library

### 2509 flange drawings

Every ASME B16.5 weld neck, slip-on, blind and lap joint flange from NPS 1/2 to 24, Class 150 to 2500, as a PDF with the bore for every schedule and the weight in carbon and stainless steel.

### Notes and certificates

Technical notes as PDF white papers, the ASME B16.5 bolt chart, our 5 certificates and a sample EN 10204 3.1 certificate, at rajendradatacenter.us/downloads/.

Quality and documents

# Every heat traceable, every flange checked

A route card (RIC/PRD/RC-01) follows each lot from bar to box. Our quality team of 9 tests in house; outside laboratories do the rest.

01
### Cutting
Bars cut on band saws, each piece tagged with its heat number.

02
### Forging
A 1.25 t hammer and 300 t and 150 t hydraulic presses.

03
### Heat treatment
Solution annealing or normalizing, recorded on furnace charts.

04
### Pickling
Stainless forgings pickled; passivated when the order asks.

05
### Machining
CNC lathes, vertical machining centers and conventional lathes.

06
### Marking
Standard, size, class, grade and heat number on every flange.

07
### Testing
Tensile, hardness, PMI, dye penetrant and dimensional checks.

08
### Final inspection
A 23-point checklist against the route card, then packing.

### Tests

- In house: tensile (400 kN universal testing machine), Rockwell and Brinell hardness, PMI (Bruker), dye penetrant, dimensional
- Outside laboratories: chemical analysis, intergranular corrosion (ASTM A262), impact, ultrasonic and magnetic particle testing

### Documents

- Mill test reports (MTRs) to EN 10204 3.1, or 3.2 with a third-party inspector
- Third-party inspection by TÜV, Gulf Lloyds, IRClass, Bureau Veritas or SGS
- A sample certificate and our ISO, PED and NORSOK certificates are online

**Organizations RIC has supplied**

ISRO, BHEL, NTPC, Indian Oil (IOCL), BPCL, HPCL, Chennai Petroleum (CPCL), Reliance Industries, Cochin Shipyard, Hindustan Shipyard, GRSE, Coal India, FACT, Madras Fertilizers, DCM Shriram


Forging shop


Dye penetrant test on a stainless weld neck


Hardness testing

RAJENDRA
INDUSTRIAL CORPORATION

# Send us your line list

Types, sizes, classes, grades and quantities, as a list or a drawing. We reply with a quotation, or with the questions we need answered before we quote.

### Ask for a quote

**sales@rajendradatacenter.com**

+91 74338 71355, phone and WhatsApp
Jinangg Doshiiy
rajendradatacenter.us/rfq/

### Online

rajendradatacenter.us
Flanges, drawings, guides and certificates

rajendrafittings.com
Pipe fittings, flanges and pipes

rajendraflanges.com
Flanges for every industry

### Works

Plot No. 199/4, 199/6 & L-605, GIDC, Opp. Balaji Weigh Bridge
Umbergaon, Dist. Valsad
Gujarat 396171, India

### Head office

97/99, Shiv Vilas Building, 2nd Pathan Street, 5th Kumbharwada
Mumbai 400004, India

Rajendra Industrial Corporation, manufacturer of forged flanges and fittings since 2000. ISO 9001:2015, PED 2014/68/EU, NORSOK M-650, ISO 45001:2018, ISO 29001:2020. Dimensions, materials and tests are to the standards named, and the standard and your purchase order govern. Catalog 2026, edition of 8 November 2026.