



PRODUCT CATALOGUE

OEM manufacturer of flanges, pipe fittings, fasteners, valves and fabricated piping. Stockist and supplier of pipes, plates and structural steel.



ABOUT Teshi GROUP

Manufacturer and stockist for critical piping.

Since 1971, Teshi Group has manufactured forged flanges, pipe fittings, fasteners, valves and fabricated piping in Howrah as an OEM, and stocked and supplied pipes, plates and structural steel alongside them. Built on engineering expertise, stringent quality control and recognised standards, we deliver reliability in every project.

1971

Established

500+

Projects

10+

Inspection checkpoints

11

Product categories

OEM MANUFACTURER

- **Industrial Flanges** — NPS ½"-60" · ASME B16.5, ASME B16.47
- **Butt Weld Fittings** — NPS ½"-48" · ASME B16.9, MSS SP-43
- **Socket Weld Fittings** — NPS ⅛"-4" · ASME B16.11
- **Threaded Fittings** — NPS ⅛"-4" · ASME B16.11, ASME B1.20.1
- **Industrial Valves** — NPS ½"-24" · API 600, API 602, API 608
- **Fasteners** — M10-M64 · ½"-4" · ASTM A193, ASTM A194
- **Custom Fabrication** — As per drawing · ASME B31.3, ASME IX

STOCKIST & SUPPLIER

- **Industrial Pipes** — NPS ⅛"-48" · ASTM A106, API 5L, ASTM A312
- **Steel Plates** — 3-100 mm thick · IS 2062, ASTM A516, ASTM A36
- **Structural Steel** — ISMB 100-600 · IS 808, IS 2062
- **Gaskets & Seals** — NPS ½"-60" · ASME B16.20, ASME B16.21

Quality and documentation

- ISO 9001:2015 certified quality management system; IBR approved.
- Mill test certificates to EN 10204 3.1, and 3.2 with third-party inspection.
- PMI, heat-treatment records, dimensional reports and NDT as specified.
- Heat-number traceability from raw material to dispatch.



OEM MANUFACTURER

Industrial Flanges

Teshi Group is an OEM manufacturer of forged steel flanges in Howrah, India. We forge, machine and inspect weld neck, slip-on, blind, socket weld, threaded and lap joint flanges to ASME B16.5 (NPS ½"–24") and ASME B16.47 Series A/B (NPS 26"–60") in carbon steel (ASTM A105, A350 LF2), stainless steel (A182 F304/F304L/F316/F316L/F321) and alloy steel (A182 F11/F22/F91). Every flange is dimensionally inspected and supplied with mill test certificates traceable to the raw-material heat number.

Size range NPS ½"–60"		Material families CS / SS / Alloy		Governing standards ASME B16.5, ASME B16.47
Type	Standard	Size range	Pressure class / schedule	Material grades
Weld Neck	ASME B16.5	½"–24"	150#–2500#	A105, A182 F304/F316, A350 LF2
Slip-On	ASME B16.5	½"–24"	150#–1500#	A105, A182 F304/F316
Blind	ASME B16.5	½"–24"	150#–2500#	A105, A182 F304/F316
Socket Weld	ASME B16.5	½"–3"	150#–1500#	A105, A182 F304/F316
Threaded	ASME B16.5	½"–6"	150#–2500#	A105, A182 F304/F316
Lap Joint	ASME B16.5	½"–24"	150#–2500#	A105, A182 F304/F316
Large Diameter (Series A / B)	ASME B16.47	26"–60"	150#–600#	A105, A350 LF2, A182 F304/F316

Technical data sheets and dimension charts

Weld Neck Flange data sheet · Slip-On Flange data sheet · Blind Flange data sheet · Socket Weld Flange data sheet · Threaded Flange data sheet · Lap Joint Flange data sheet · Large Diameter Flange (ASME B16.47) data sheet · ASME B16.5 Class 150 flange dimensions · ASME B16.5 Class 300 flange dimensions · ASME B16.5 Class 600 flange dimensions · ASME B16.5 Class 900 flange dimensions · ASME B16.5 Class 1500 flange dimensions · ASME B16.5 Class 2500 flange dimensions · ASME B16.47 Series A flange dimensions · ASME B16.47 Series B flange dimensions · ASME B16.5 flange weight chart · ASME B16.5 pressure-temperature ratings

Download at www.teshigroup.com/products/industrial-flanges/



OEM MANUFACTURER

Butt Weld Fittings

Teshi Group is an OEM manufacturer of seamless and welded butt weld pipe fittings: 45°, 90° and 180° elbows in long and short radius, equal and reducing tees, concentric and eccentric reducers, caps and stub ends. Fittings are formed and heat treated to ASME B16.9 in ASTM A234 WPB carbon steel, A403 WP304/WP304L/WP316/WP316L stainless steel and A234 WP11/WP22 alloy steel, with heat-number traceability and a dimensional inspection report on every lot.

Size range NPS ½"–48"		Material families CS / SS / Alloy		Governing standards ASME B16.9, MSS SP-43	
Type	Standard	Size range	Pressure class / schedule	Material grades	
Elbow 90° / 45° (long radius)	ASME B16.9	½"–48"	SCH 10–SCH 160, XXS	A234 WPB, A403 WP304/WP316	
Elbow 90° (short radius)	ASME B16.9	1"–24"	SCH 10–SCH 160	A234 WPB, A403 WP304	
180° Return	ASME B16.9	½"–24"	SCH 10–SCH 160	A234 WPB, A403 WP304/WP316	
Equal / Reducing Tee	ASME B16.9	½"–48"	SCH 10–SCH 160	A234 WPB, A403 WP316	
Concentric / Eccentric Reducer	ASME B16.9	¾"–48"	SCH 10–SCH 160	A234 WPB, A403 WP304/WP316	
Cap	ASME B16.9	½"–48"	SCH 10–SCH 160	A234 WPB, A403 WP304	
Lap Joint Stub End	ASME B16.9 / MSS SP-43	½"–24"	SCH 10S–SCH 80	A403 WP304/WP316, A234 WPB	

Technical data sheets and dimension charts

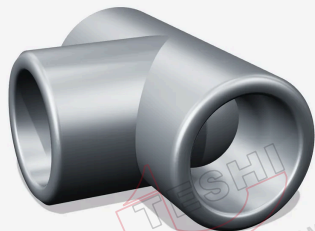
Butt Weld Elbow data sheet · Butt Weld Tee data sheet · Butt Weld Reducer data sheet · Butt Weld Pipe Cap data sheet · Lap Joint Stub End data sheet · ASME B16.9 elbow dimensions · ASME B16.9 tee dimensions · ASME B16.9 reducer dimensions · ASME B16.9 pipe cap dimensions · ASME B16.9 stub end dimensions · Pipe schedule chart — ASME B36.10M

Download at www.teshigroup.com/products/butt-weld-fittings/



OEM MANUFACTURER

Socket Weld Fittings



Teshi Group is an OEM manufacturer of forged socket weld fittings for small-bore, high-pressure lines: 90° and 45° elbows, tees, crosses, full and half couplings, unions and caps. Fittings are machined from ASTM A105, A182 F304/F316 and F11/F22 forgings in Class 3000, 6000 and 9000, with socket bore and depth checked against ASME B16.11 on every lot.

Size range NPS ½"-4"	Material families CS / SS / Alloy	Governing standards ASME B16.11
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Type	Standard	Size range	Pressure class	Material grades
Elbow 90° / 45°	ASME B16.11	½"-4"	3000# / 6000# / 9000#	A105, A182 F304/F316
Equal Tee / Cross	ASME B16.11	½"-4"	3000# / 6000#	A105, A182 F304/F316
Full / Half Coupling	ASME B16.11	½"-4"	3000# / 6000# / 9000#	A105, A182 F11/F22
Union	MSS SP-83	½"-3"	3000# / 6000#	A105, A182 F316
Cap	ASME B16.11	½"-4"	3000# / 6000#	A105, A182 F304

Technical data sheets and dimension charts

Forged Socket Weld Fittings data sheet · ASME B16.11 socket weld fitting dimensions · Pipe schedule chart — ASME B36.10M

Download at www.teshigroup.com/products/socket-weld-fittings/



OEM MANUFACTURER



Threaded Fittings

Teshi Group is an OEM manufacturer of forged threaded (screwed) fittings with NPT threads to ASME B1.20.1 or BSPT to BS 21, for instrument, utility and small-bore process lines. Elbows, tees, crosses, couplings, caps, plugs, bushings and hex nipples are machined from ASTM A105 and A182 F304/F316 forgings in Class 2000, 3000 and 6000. Thread gauging is recorded for every batch.

Size range NPS ½"-4"	Material families CS / SS	Governing standards ASME B16.11, ASME B1.20.1
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Type	Standard	Size range	Pressure class	Material grades
Elbow 90° / 45°	ASME B16.11	½"-4"	2000# / 3000# / 6000#	A105, A182 F304/F316
Tee / Cross	ASME B16.11	½"-4"	2000# / 3000# / 6000#	A105, A182 F316
Coupling / Half Coupling	ASME B16.11	½"-4"	3000# / 6000#	A105, A182 F304
Hex Plug / Bushing	ASME B16.11	½"-4"	3000# / 6000#	A105, A182 F316
Hex Nipple	MSS SP-95	½"-2"	SCH 80 / SCH 160	A105, A182 F304/F316

Technical data sheets and dimension charts

Forged Threaded Fittings data sheet · ASME B16.11 threaded fitting dimensions · NPT thread dimensions (ASME B1.20.1)

Download at www.teshigroup.com/products/threaded-fittings/



OEM MANUFACTURER

Industrial Valves

Teshi Group is an OEM manufacturer of cast and forged steel valves for isolation and flow control: gate, globe, check, ball and butterfly valves with flanged, butt weld, socket weld or threaded ends. Every valve is shell and seat tested to API 598 before dispatch, with test reports issued against the valve serial number.

Size range NPS ½"–24"	Material families Cast / Forged	Governing standards API 600, API 602, API 608
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Type	Design standard	Size range	Pressure class	Body materials
Gate Valve	API 600 / API 602	½"–24"	150#–1500#	A216 WCB, A105, A351 CF8M
Globe Valve	BS 1873 / API 602	½"–12"	150#–1500#	A216 WCB, A105
Check Valve (swing / lift)	API 594 / API 602 / BS 1868	½"–24"	150#–1500#	A216 WCB, A351 CF8M
Ball Valve	API 608 / API 6D	½"–12"	150#–600#	A105, A351 CF8M
Butterfly Valve	API 609	2"–24"	PN10–PN16 / 150#	A216 WCB, ductile iron

Technical data sheets and dimension charts

Gate Valve data sheet · Globe Valve data sheet · Check Valve data sheet · Ball Valve data sheet · Butterfly Valve data sheet · ASME B16.5 Class 150 flange dimensions · ASME B16.5 Class 300 flange dimensions · ASME B16.5 pressure–temperature ratings

Download at www.teshigroup.com/products/industrial-valves/



OEM MANUFACTURER

Fasteners

Teshi Group is an OEM manufacturer of stud bolts, hex bolts and heavy hex nuts for flanged joints, in ASTM A193 B7, B7M, B16, B8 and B8M with A194 2H, 2HM, 8 and 8M nuts, and A320 L7 for low-temperature service. Fasteners are supplied plain, hot-dip galvanised or PTFE (Xylan) coated, cut to the stud length each flange class requires so every joint ships complete.



Size range M10–M64 · ½"–4"	Material families Alloy / SS	Governing standards ASTM A193, ASTM A194
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Type	Standard	Size range	Coating	Material grades
Stud Bolt (full thread)	ASME B18.31.2	½"–4" / M12–M64	Plain, HDG, PTFE	A193 B7, B7M, B16
Heavy Hex Nut	ASME B18.2.2	½"–4" / M12–M64	Plain, HDG, PTFE	A194 2H, 2HM, 4
Hex Bolt	ASME B18.2.1	¼"–2" / M10–M36	Plain, HDG	A193 B7, B8, B8M
Stainless Stud Bolt	ASME B18.31.2	½"–2"	Plain	A193 B8 / B8M with A194 8 / 8M
Low-temperature Stud	ASTM A320	½"–2½"	Plain, PTFE	A320 L7, L7M

Technical data sheets and dimension charts

Stud Bolts & Heavy Hex Nuts data sheet · Stud bolt chart for ASME B16.5 flanges

Download at www.teshigroup.com/products/fasteners/



OEM MANUFACTURER

Custom Fabrication

Teshi Group fabricates pipe spools, headers, manifolds, ducts and non-standard forgings to your drawing as an OEM manufacturer. Welding procedures and welders are qualified to ASME Section IX, and each piece ships with a dimensional report, weld map and NDT records.

Size range As per drawing	Material families CS / SS / Alloy	Governing standards ASME B31.3, ASME IX
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Item	Code	Size range	Inspection	Materials
Pipe Spools	ASME B31.3	½"-36"	RT / UT / DPT, hydro test	CS, SS, Alloy
Headers & Manifolds	ASME B31.1 / B31.3	2"-24"	RT / UT, hydro test	CS, Alloy
Special / Oversize Forgings	Per drawing	Up to 3,000 mm OD	UT, PMI, dimensional	A105, F22, F316
Orifice & Spectacle Blinds	ASME B16.36 / B16.48	½"-24"	Dimensional, PMI	A105, F316

Technical data sheets and dimension charts

Fabricated Pipe Spools data sheet · ASME B16.5 Class 150 flange dimensions · ASME B16.9 elbow dimensions · Pipe schedule chart — ASME B36.10M

Download at www.teshigroup.com/products/custom-fabrication/



STOCKIST & SUPPLIER

Industrial Pipes

Teshi Group is a stockist and supplier of seamless and welded carbon, stainless and alloy steel pipe from approved mills. Pipe is cut to length and bevelled for site welding, supplied with the mill's EN 10204 3.1 test certificate, and can be ordered together with Teshi-manufactured flanges and fittings on one release.



Size range NPS ½"-48"		Material families CS / SS / Alloy		Governing standards ASTM A106, API 5L, ASTM A312	
Type	Standard	Size range	Schedule	Material grades	
Seamless Carbon Steel	ASTM A106 / API 5L	½"-24"	SCH 10-XXS	A106 Gr B, API 5L Gr B / X42-X70	
Stainless Steel	ASTM A312	½"-24"	SCH 5S-SCH 160	TP304/304L, TP316/316L	
ERW / LSAW	ASTM A53 / API 5L / IS 1239 / IS 3589	½"-48"	SCH 10-SCH 80	A53 Gr B, API 5L Gr B	
Alloy Steel	ASTM A335	½"-24"	SCH 40-SCH 160	P11, P22, P91	

Technical data sheets and dimension charts

Carbon Steel Seamless Pipe data sheet · Stainless Steel Pipe data sheet · Alloy Steel Pipe data sheet · Pipe schedule chart — ASME B36.10M · Stainless steel pipe schedule chart — ASME B36.19M

Download at www.teshigroup.com/products/industrial-pipes/



STOCKIST & SUPPLIER

Steel Plates

Teshi Group is a stockist and supplier of hot-rolled steel plates from primary mills: structural plates to IS 2062 E250 and E350 and ASTM A36, and boiler and pressure-vessel quality plates to ASTM A516 Grade 70 and IS 2002. Plates are supplied in mill sizes or profile cut to drawing — including circles and ring segments — with the mill test certificate for each heat.

Size range
3–100 mm thick

Material families
MS / Boiler quality

Governing standards
IS 2062, ASTM A516, ASTM A36

Type	Standard	Thickness	Width × length	Material grades
Structural Plate	IS 2062	5–100 mm	1250–2500 × 6300–12000 mm	E250 A/BR/BO, E350 BR/BO
Structural Plate	ASTM A36	5–100 mm	1500–2500 × 6000–12000 mm	A36
Boiler / Pressure Vessel Plate	ASTM A516 / IS 2002	6–100 mm	1500–2500 × 6000–12000 mm	A516 Gr 60/70, IS 2002 Gr 2
Chequered Plate	IS 3502	3–10 mm	1250–1500 × 6300 mm	MS
Profile-cut Circles & Ring Segments	Per drawing	Up to 100 mm	Per drawing	IS 2062, A516

Technical data sheets and dimension charts

Steel Plates data sheet · Steel plate weight chart

Download at www.teshigroup.com/products/steel-plates/



STOCKIST & SUPPLIER

Structural Steel

Teshi Group is a stockist and supplier of hot-rolled structural steel sections to IS 808 in IS 2062 E250 and E350: ISMB beams, ISMC channels, equal and unequal angles, flats, rounds and hollow sections. Material is supplied in mill lengths or cut to size with the mill test certificate, for plant structures, pipe racks, supports and sheds.

Size range ISMB 100–600	Material families IS 2062	Governing standards IS 808, IS 2062
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Section	Standard	Size range	Length	Material grades
ISMB Beams	IS 808	ISMB 100–600	Up to 12 m	IS 2062 E250, E350
ISMC Channels	IS 808	ISMC 75–400	Up to 12 m	IS 2062 E250, E350
Equal / Unequal Angles	IS 808	25×25×3 to 200×200×25	Up to 12 m	IS 2062 E250, E350
Flats & Rounds	IS 1730 / IS 1732	As required	Up to 6 m	IS 2062 E250
Hollow Sections (SHS / RHS / CHS)	IS 4923 / IS 1161	As required	6 m	YSt 210 / 240 / 310

Technical data sheets and dimension charts

Structural Steel Sections data sheet · Steel plate weight chart · ISMB beam sizes and weights (IS 808) · ISMC channel sizes and weights (IS 808) · ISA angle sizes and weights (IS 808)

Download at www.teshigroup.com/products/structural-steel/



STOCKIST & SUPPLIER

Gaskets & Seals

Teshi Group is a stockist and supplier of spiral wound, ring type joint and soft cut gaskets matched to your flange class and service. We supply gaskets together with Teshi-manufactured flanges and stud bolts as complete joint kits, so the joint is specified once and checked together.



Size range NPS ½"–60"	Material families Metallic / Soft	Governing standards ASME B16.20, ASME B16.21
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Type	Standard	Size range	Pressure class	Materials
Spiral Wound	ASME B16.20	½"–60"	150#–2500#	SS304/SS316 + graphite / PTFE
Ring Type Joint (R / RX / BX)	ASME B16.20 / API 6A	½"–36"	150#–2500#, API 2000–15000	Soft iron, SS316, F5
Non-asbestos Sheet	ASME B16.21	½"–60"	150#–300#	CNAF, graphite
PTFE Envelope	ASME B16.21	½"–24"	150#–300#	PTFE with insert
Kammprofile	ASME B16.20	½"–48"	150#–2500#	SS316 + graphite

Technical data sheets and dimension charts

Spiral Wound Gasket data sheet · ASME B16.20 spiral wound gasket dimensions · ASME B16.20 ring joint gasket dimensions · ASME B16.21 non-metallic gasket dimensions

Download at www.teshigroup.com/products/gaskets-seals/



TECHNICAL LIBRARY

Data sheets and dimensional standards

Every document below is free to read online and download as a PDF at www.teshigroup.com.

Technical data sheets

Weld Neck Flange	Stud Bolts & Heavy Hex Nuts
Slip-On Flange	Gate Valve
Blind Flange	Globe Valve
Socket Weld Flange	Check Valve
Threaded Flange	Ball Valve
Lap Joint Flange	Butterfly Valve
Large Diameter Flange (ASME B16.47)	Fabricated Pipe Spools
Butt Weld Elbow	Carbon Steel Seamless Pipe
Butt Weld Tee	Stainless Steel Pipe
Butt Weld Reducer	Alloy Steel Pipe
Butt Weld Pipe Cap	Steel Plates
Lap Joint Stub End	Structural Steel Sections
Forged Socket Weld Fittings	Spiral Wound Gasket
Forged Threaded Fittings	

Dimensional standards

ASME B16.5 Class 150 flange dimensions	ASME B16.9 pipe cap dimensions
ASME B16.5 Class 300 flange dimensions	ASME B16.9 stub end dimensions
ASME B16.5 Class 600 flange dimensions	ASME B16.11 socket weld fitting dimensions
ASME B16.5 Class 900 flange dimensions	ASME B16.11 threaded fitting dimensions
ASME B16.5 Class 1500 flange dimensions	NPT thread dimensions (ASME B1.20.1)
ASME B16.5 Class 2500 flange dimensions	Pipe schedule chart — ASME B36.10M
ASME B16.47 Series A flange dimensions	Stainless steel pipe schedule chart — ASME B36.19M
ASME B16.47 Series B flange dimensions	ASME B16.20 spiral wound gasket dimensions
ASME B16.5 flange weight chart	ASME B16.20 ring joint gasket dimensions
ASME B16.5 pressure-temperature ratings	ASME B16.21 non-metallic gasket dimensions
Stud bolt chart for ASME B16.5 flanges	Steel plate weight chart
ASME B16.9 elbow dimensions	ISMB beam sizes and weights (IS 808)
ASME B16.9 tee dimensions	ISMC channel sizes and weights (IS 808)
ASME B16.9 reducer dimensions	ISA angle sizes and weights (IS 808)



MATERIAL GRADES

Grades we work with

ASTM A105 — Forged flanges & fittings	ASTM A312 TP304L — Seamless pipe (seamless & welded)
ASTM A350 LF2 Cl.1 — Forged flanges & fittings	ASTM A312 TP316 — Seamless pipe (seamless & welded)
ASTM A182 F304 — Forged flanges & fittings	ASTM A312 TP316L — Seamless pipe (seamless & welded)
ASTM A182 F304L — Forged flanges & fittings	ASTM A335 P11 — Seamless pipe
ASTM A182 F316 — Forged flanges & fittings	ASTM A335 P22 — Seamless pipe
ASTM A182 F316L — Forged flanges & fittings	ASTM A335 P91 — Seamless pipe
ASTM A182 F321 — Forged flanges & fittings	ASTM A193 B7 — Stud bolts / bolting
ASTM A182 F11 Cl.2 — Forged flanges & fittings	ASTM A193 B7M — Stud bolts / bolting
ASTM A182 F22 Cl.3 — Forged flanges & fittings	ASTM A193 B16 — Stud bolts / bolting
ASTM A182 F91 — Forged flanges & fittings	ASTM A193 B8 Cl.1 — Stud bolts / bolting
ASTM A182 F51 — Forged flanges & fittings	ASTM A193 B8M Cl.1 — Stud bolts / bolting
ASTM A234 WPB — Wrought butt-weld fittings	ASTM A194 2H — Heavy hex nuts
ASTM A234 WP11 Cl.1 — Wrought butt-weld fittings	ASTM A194 2HM — Heavy hex nuts
ASTM A234 WP22 Cl.1 — Wrought butt-weld fittings	ASTM A194 8 — Heavy hex nuts
ASTM A420 WPL6 — Wrought butt-weld fittings	ASTM A194 8M — Heavy hex nuts
ASTM A403 WP304 — Wrought butt-weld fittings	ASTM A320 L7 — Stud bolts / bolting
ASTM A403 WP304L — Wrought butt-weld fittings	ASTM A216 WCB — Steel castings
ASTM A403 WP316 — Wrought butt-weld fittings	ASTM A351 CF8M — Austenitic steel castings
ASTM A403 WP316L — Wrought butt-weld fittings	ASTM A516 Gr.70 — Pressure-vessel plate
ASTM A106 Gr.B — Seamless pipe	ASTM A36 — Structural plate, bars & shapes
ASTM A53 Gr.B (seamless) — Seamless pipe (Type S)	IS 2062 E250 BR — Structural plate, sections & bars
API 5L Gr.B PSL1 — Seamless line pipe	IS 2062 E350 BR — Structural plate, sections & bars
ASTM A312 TP304 — Seamless pipe (seamless & welded)	UNS N08904 (904L) — Forgings (A182 F904L)

Request a quote

Send your drawing, bill of materials or enquiry to **sales@teshigroup.com** or call **+91 78900 09110**. Quotations are normally returned within 24–48 hours.

Teshi Engineers & Sales Promoters (P) Ltd
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