

COMPANY & PRODUCT BROCHURE · 2026

Pipe Repair Clamps

A manufacturer of pipe repair clamps and fittings. Shells in carbon and stainless steel, built to drawing, to sample, or to specification. Standard working pressure ≥ 232 PSI; high-pressure work delivered to 3263 PSI (22.5 MPa) and beyond by application.

PIPE SIZE

1/2" – 160" OD

SHELL

Carbon / Stainless

WORKING PRESSURE

≥ 232 PSI

MANAGEMENT

ISO 9001 / 14001 / 45001

ADDRESS

No. 15-2 Zhongyang Road, Zhenxi Industrial Park
Henglin Town, Changzhou Economic Development Zone
Jiangsu 213101, China

TEL

+86 519 8872 3665
+86 137 7518 8065
Fax +86 519 8118 2879

WEB

www.czsbgsj.com

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Facility & Site

From steel plate to finished shell, from the shop floor to the customer's site — this page uses site photographs instead of description.



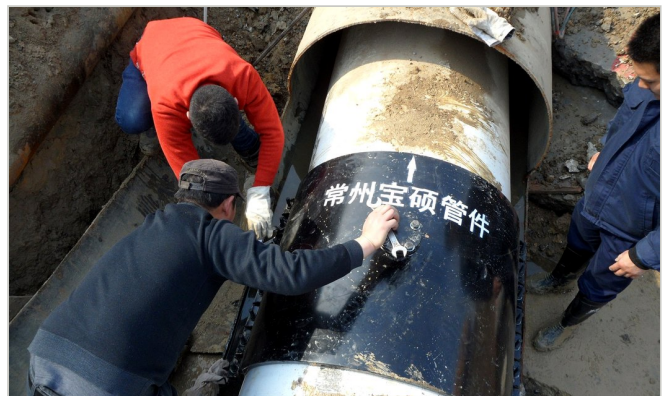
01 Finished goods store · shells racked by size



02 Shop floor · large-diameter circumferential welding



03 Shop floor · weld dressing



04 Site installation · live-line repair on a straight run



05 In service · running on a chemical plant line



06 Loading · large-diameter shells crated for dispatch

Pipe repair clamps

Two half shells close around the pipe, bolts tighten and the gasket seals. Straight, tee, cross, elbow, reducing, socket and flange forms; carbon and stainless shells.

How it is installed

The shell closes around the pipe and seals as the bolts are tightened — no shutdown and no hot work, so the repair can be made with the line live.

Petrochemical / power / municipal

Straight runs, elbows, tees and flange joints on existing lines can all be wrapped; large and non-standard shapes are built to site measurements.

Company

A manufacturer of pipe repair clamps.

Changzhou Baoshuo Pipe Fittings Co., Ltd. was established in 2010 in Henglin Town, Changzhou, Jiangsu. Cutting, forming, welding, machining, pressure testing and finishing of the shell are carried out in our own works; products are made to customer drawings, to samples, or to dimensions measured on site.

01	Established	2010 · Henglin Town, Changzhou, Jiangsu
02	Products	Pipe repair clamps · saddle outlet tees · expansion joints · socket joint fittings
03	Size range	1/2" - 160" OD (DN15 - DN4000)
04	Shell materials	Carbon steel (Q235) · 304 / 316L / 2205 stainless · PVC-M · Q355 low-alloy · made to order
05	Pressure	≥232 PSI standard (1.6 MPa); above the standard rating engineered per application

What we do

Pipe repair Live-line repair of pits, cracks, weld leaks and joint leaks. Two half shells close around the pipe, bolts tighten, and the gasket seals under compression.

Gaskets & coatings Gaskets selected by medium and working temperature from EPDM / NBR / VMQ / FKM / PTFE. Finishes: epoxy powder, galvanizing or bare stainless, with a fluoropolymer-lined bore available.

Shell forming & machining Rolled and welded, then re-rounded; small sizes can be formed on existing dies. Faces, flange sealing faces and bolt holes are machined in-house. Carbon steel and stainless run on separate lines.

Made to order Built to customer drawings, samples or site measurements; non-standard shapes and sizes outside the standard range are equally possible.

Certification & management systems

Certified to ISO 9001:2015 (quality), ISO 14001:2015 (environment) and ISO 45001:2018 (occupational health and safety), and holder of a Grade AAAAA enterprise standards system certificate.

Certificate verification

Certificates remain valid only while surveillance audits are maintained. On request we can provide the certificate number, or a current proof of validity.

Manufacturing & QC

Six operations in-house, four gates every unit passes.

A repair clamp seals by closing two half shells around the pipe and compressing the gasket. Shells are mainly rolled, welded and then machined; gaskets are selected by medium and temperature. Reducers, elbows and tees are made to drawings or site measurements.

Operations IN WHAT ORDER

Cutting	Plate cut to the developed size, marked with pipe size, length and work order; the grade is checked against the cutting list.
Forming	Route chosen by size and batch: sizes with existing dies are formed directly, others are rolled, welded, then re-rounded.
Welding	Carbon steel and stainless on separate lines. Intersection curves for reducers, elbows and tees are held by fixtures.
Machining	Shell faces, flange sealing faces and bolt holes are machined in-house so the halves seat and stay concentric.
Finishing	Epoxy powder, galvanizing or a lined bore as ordered; stainless parts ship in bare finish, shot-blasting available.
Pressure test	Every unit is tested before dispatch, no batch sampling. Standard products verified at 290 PSI (2.0 MPa).

Quality control WHAT PASSES EACH GATE

Incoming	Material and bought-in parts checked against grade and size per batch, with mill certificates; gaskets accepted by material and hardness.
First article	For a new size or die, the first unit is confirmed on dimensions, shell fit-up and pressure test before the batch is released.
In process	Each operation is self-checked and cross-checked against the work order; non-conforming parts do not move on.
Dispatch	Test readings recorded per unit; size, quantity, coating and marking checked, with documents as agreed on the order.

Shipping documents on request

Mill certificates, dimensional sheets, pressure test records and third-party reports are agreed separately, to the order and to the customer's requirements – **ask for them at enquiry or order stage**. Third-party witnessed testing or an inspection report has to be arranged in advance and will affect the lead time.

Shell materials

Q235 carbon steel · 304 / 316L stainless
· 2205 duplex · PVC-M · Q355 · made to order

Gasket materials

EPDM · NBR · VMQ · FKM · PTFE

Pressure testing

For special pressures or very large sizes, state the pressure and size at enquiry.

Certificates

Management system and enterprise standards certificates. Copies below; originals available for verification on request.



ISO 9001:2015

Quality management system



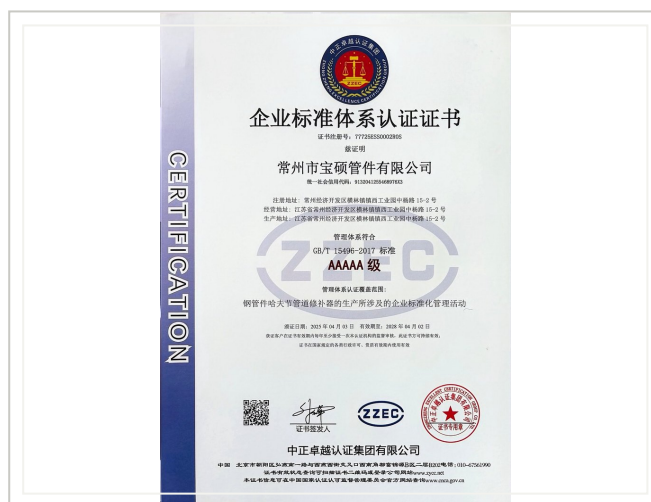
ISO 14001:2015

Environmental management system



ISO 45001:2018

Occupational health & safety management system



GB/T 15496-2017

Enterprise standards system (Grade AAAAA)

Verifying a certificate Certificates stay valid only while surveillance audits are maintained. On request we can supply the certificate number for you to check, or a current proof of validity.

Certificate numbers To verify independently, ask us for the certificate number and a current proof of validity.

Product Series

Seven series, 45 model lines.

Code	Series	Models	Pipe materials
SS	Stainless Steel Series	10	Stainless steel pipe (304 / 316L / 2205)
RC	Repair Clamps	9	PVC · HDPE · steel · stainless · ductile iron · GRP · concrete
SL	Saddle Outlet Tees	4	PVC · HDPE · steel · ductile iron
RB	Repair Branch Tees	4	PVC · HDPE · steel · ductile iron
EJ	Expansion Joints	6	PVC · steel · ductile iron · GRP
SJ	Socket Joint Fittings	6	PVC · PE pipe systems
SP	Specialty Service	6	Selected by medium and temperature

SS is the all-stainless edition of the RC and SP ranges, for lines where rust staining or coating loss cannot be accepted.

Which series?

Leak in the pipe → RC

Need a branch → SL / RB

Join two pipes, allow movement → EJ

Plastic pipe direction or branch → SJ

Special medium or temperature → SP

No corrosion / no repainting → SS

Stainless Steel Series

Series SS · 10 model lines · Pipe materials: Stainless steel pipe (304 / 316L / 2205)

The stainless steel edition of our repair clamps. Same construction as the RC and SP ranges, but shell, bolts and gasket seating faces are all 304 / 316L / 2205 stainless — supplied in bare mill finish, shot-blasting on request. Specified where rust staining or coating loss cannot be tolerated: food and pharmaceutical lines, pure water, chemical service, coastal atmospheres, and stainless pipe itself.

Code	Model	Grades
RCSP-SS	Stainless Steel Straight Repair Clamp	304 / 316L / 2205
RCEL-SS	Stainless Steel Elbow Repair Clamp	304 / 316L / 2205
RCTE-SS	Stainless Steel Tee Repair Clamp	304 / 316L / 2205
RCRD-SS	Stainless Steel Reducing Repair Clamp	304 / 316L / 2205
RCFL-SS	Stainless Steel Flange Wrap Repair Clamp	304 / 316L / 2205
RCCR-SS	Stainless Steel Cross Repair Clamp	304 / 316L / 2205
SS01	Stainless Steel High Pressure Repair Clamp	304 / 316L / 2205
SS02	Stainless Steel Corrosion Resistant Repair Clamp	304 / 316L / 2205
SS03	Stainless Steel High Temperature Repair Clamp	304 / 316L / 2205
SS04	Stainless Steel Ultra-Low Temperature Repair Clamp	304 / 316L / 2205

Pipe outside diameter is set by the individual model (table above); the series is supplied across 1/2" - 160" OD (DN15 - DN4000). Outside that range we build to drawing or to sample.



Stainless Steel Straight Repair Clamp



Stainless Steel Elbow Repair Clamp



Stainless Steel Tee Repair Clamp



Stainless Steel Reducing Repair Clamp



Stainless Steel Flange Wrap Repair Clamp

Typical applications

Food / pharma / pure water No rust or coating debris to contaminate the medium

Chemical & coastal plants Corrosion resistance without relying on a coating

Stainless steel pipe Same material as the pipe — avoids galvanic corrosion

Stainless Steel Grades

304 / 316L / 2205 — all three available. Which one you need depends on the medium. Shell and bolts are supplied in the same grade.

304 S4 · 06Cr19Ni10

General atmospheric and fresh-water corrosion resistance; suitable for food-contact surfaces

Typical service

Potable water · general industrial water · atmosphere · food and pharma

Limitations

Chloride-bearing environments (coastal air, seawater, high-chloride water) will pit it in prolonged contact

316L S6 · 022Cr17Ni12Mo2

Molybdenum-bearing: markedly better than 304 against chloride pitting and chemical media

Typical service

Coastal environments · chemical media · pharmaceutical · high-chloride water · welded structures

Limitations

High-temperature, high-concentration chlorides and strongly reducing acids still need assessment

2205 duplex DX · S32205

GB 00Cr22Ni5Mo3N

Ferritic-austenitic duplex structure; the best strength and stress-corrosion resistance of the three

Typical service

Seawater · high-chloride service · high-pressure parts · pressure-retaining sections where weight matters

Limitations

Upper service temperature is lower than the austenitic grades — confirm per application

What stainless steel is not

Not resistant to every medium Stainless steel relies on a passive surface film. Chlorides, reducing acids and fluoride-bearing media break it down; send us the full medium name and concentration and we will confirm the grade.

Galvanic corrosion against carbon steel Where a stainless part touches a carbon steel or galvanized pipe, corrosion on the carbon steel side accelerates. Tell us the pipe material at enquiry.

Not rust-proof forever In prolonged damp, salt-laden or chloride-bearing conditions even 304 will pit and develop rust staining. Specify 316L or 2205 for those environments.

Uncoated is not maintenance-free Bare stainless does not shed paint, but its passive film needs oxygen from the medium to be maintained; stagnant dead legs and crevices still need periodic inspection.

Material standard: ASTM A240. Gasket material is still selected by medium and temperature (EPDM / NBR / VMQ / FKM / PTFE) and is independent of the shell grade; see Appendix B. If you are unsure of the grade, give us the **full medium name and concentration**, the **working temperature range**, and **whether the location is coastal or high-chloride** and we will recommend a material.

Stainless Steel Straight Repair Clamp

Shell in 304 / 316L / 2205 stainless; both the pipe wall and the medium-facing surfaces are stainless. No coating – supplied in bare mill finish, shot-blasting available on request.

01 Shell material	304 · 316L stainless · 2205 duplex · made to order	Available on request
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)	Dimensional tables and drawings; built to customer drawings or site measurements.
03 Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature	To order, tell us
04 Surface finish	Bare stainless finish · shot-blasted on request · no coating	Pipe material · pipe OD · medium · working pressure · quantity.
05 Bolts	M16×80 (≈5/8") gr. 8.8	Pressure units
06 Pipe materials	Steel · stainless · ductile iron · PVC	PSI values convert the metric ratings.
07 Forming	Rolled and welded, then re-rounded / formed on existing dies	OD range
08 Working pressure	≥232 PSI (1.6 MPa)	Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell ASTM A36 / A572 Gr. 50	Gasket ASTM D2000 class	Bolts ISO 898-1	Coating AWWA C213 (FBE)
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Half shell – face and bolt holes



Large diameter – three bolt bands

Figs. 2+ Shell and pipe-material versions of the same model

Fig. 1 Stainless Steel Straight Repair Clamp · All-stainless straight shell. See the model note above.

Selection notes

The shell is sized to the pipe's **measured outside diameter**, not to nominal size – the same nominal size has different ODs in different pipe materials (Appendix A).

Grade follows the medium: 304 for general water and atmosphere; 316L or 2205 for chlorides, seawater and chemical media (see the grade comparison on the series page).

Where stainless meets a carbon steel pipe, watch for **galvanic corrosion** – tell us the pipe material.

Stainless Steel Elbow Repair Clamp

The all-stainless version for repairing a damaged elbow; angle and centre distance made to site measurements.

01 Shell material	304 · 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)
03 Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04 Surface finish	Bare stainless finish · shot-blasted on request · no coating
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	Steel · stainless · ductile iron · PVC
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell
ASTM A36 / A572 Gr. 50

Gasket
ASTM D2000 class

Bolts
ISO 898-1

Coating
AWWA C213 (FBE)



Elbow – bore and gasket



Elbow – longitudinal seam on a half shell

Figs. 2+ Shell and pipe-material versions of the same model

Fig. 1 Stainless Steel Elbow Repair Clamp · All-stainless elbow shell. See the model note above.

Selection notes

We need the pipe OD, wall thickness, **elbow angle and centre distance.**

Supplied in bare stainless finish, no coating (shot-blasting available); welded to a stainless procedure.

316L is advisable for buried or damp locations; 2205 for coastal environments.

Stainless Steel Tee Repair Clamp

Reinforcement and sealing where a branch is taken off a main, in all-stainless construction – for clean lines where paint cannot be repaired.

01	Shell material	304 · 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Bare stainless finish · shot-blasted on request · no coating
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · stainless · ductile iron · PVC
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Stainless Steel Tee Repair Clamp · All-stainless tee shell. See the model note above.



Tee – outlet and bore

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need **both the main and the branch outside diameters**.

Outlet form (threaded / flanged / welded) is set by the connection on site.

State the tap diameter and position at enquiry – the tap size affects the shell dimensions.

Stainless Steel Reducing Repair Clamp

Repair at a reducer or where the two pipe ends differ in size; large and small end diameters are each set to measurement.

01	Shell material	304 · 316L stainless · 2205 duplex · made to order	Available on request
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)	Dimensional tables and drawings; built to customer drawings or site measurements.
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature	To order, tell us
04	Surface finish	Bare stainless finish · shot-blasted on request · no coating	Pipe material · pipe OD · medium · working pressure · quantity.
05	Bolts	M16×80 (≈5/8") gr. 8.8	Pressure units
06	Pipe materials	Steel · stainless · ductile iron · PVC	PSI values convert the metric ratings.
07	Forming	Rolled and welded, then re-rounded / formed on existing dies	OD range
08	Working pressure	≥232 PSI (1.6 MPa)	Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Stainless Steel Reducing Repair Clamp · All-stainless reducing shell – large and small ends. See the model note above.

Selection notes

We need **both the large-end and small-end outside diameters** and the length of the reducing section.

For an eccentric reducer, state the direction and amount of offset.

All stainless: the reducing step is formed in-house and finished with the shell.

Stainless Steel Flange Wrap Repair Clamp

Wrap-around repair of a leaking flange joint, carried out without breaking the flange.

01	Shell material	304 · 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Bare stainless finish · shot-blasted on request · no coating
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · stainless · ductile iron · PVC
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Stainless Steel Flange Wrap Repair Clamp · All-stainless flange wrap. See the model note above.



Flange joint – stainless face

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the **flange OD, bolt circle diameter and number of bolt holes**.

The wrap goes on without breaking the flange; tell us first if the flange gap is small.

Specify an FKM gasket for strongly corrosive media.

Stainless Steel Cross Repair Clamp

Reinforcement and sealing at a cross connection; the four faces close as separate shells.

01	Shell material	304 · 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" - 160" OD (DN15 - DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE — by medium and temperature
04	Surface finish	Bare stainless finish · shot-blasted on request · no coating
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · stainless · ductile iron · PVC
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Stainless Steel Cross Repair Clamp · All-stainless cross shell. See the model note above.

Selection notes

- We need **all four end outside diameters** and the angle at each end.
- Where the cross is in a confined space, confirm the installation clearance.
- The four faces close as separate shells; tighten the bolts diagonally in stages.

Stainless Steel High Pressure Repair Clamp

The high-pressure version with a stainless shell. Standard rating 6.4 MPa; higher pressures engineered per application.

01	Shell material	304 · 316L stainless · 2205 duplex · made to order	Available on request
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)	Dimensional tables and drawings; built to customer drawings or site measurements.
03	Gasket material	NBR / FKM — by medium and temperature	To order, tell us
04	Surface finish	Bare stainless finish · shot-blasted on request · no coating	Pipe material · pipe OD · medium · working pressure · quantity.
05	Bolts	M16×80 (≈5/8") gr. 8.8	Pressure units
06	Pipe materials	Steel · stainless · ductile iron · PVC	PSI values convert the metric ratings.
07	Forming	Rolled and welded, then re-rounded / formed on existing dies	OD range
08	Working pressure	≥928 PSI (6.4 MPa)	Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Stainless Steel High Pressure Repair Clamp · Stainless high-pressure shell — heavy wall. See the model note above.

Selection notes

We need the **working and test pressures** — high-pressure clamps are designed individually and cannot be substituted with a standard unit.

Standard rating 6.4 MPa; higher pressures engineered per application.

Gasket selected by medium and temperature: NBR or FKM.

Stainless Steel Corrosion Resistant Repair Clamp

For corrosive media and coastal environments. The shell bore is fluoropolymer-lined and fitted with an FKM gasket.

01 Shell material	304 · 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)
03 Gasket material	FKM + fluoropolymer-lined bore
04 Surface finish	Fluoropolymer-lined bore / bare stainless
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	Steel · stainless · ductile iron · PVC
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Stainless Steel Corrosion Resistant Repair Clamp · Stainless shell – lined bore. See the model note above.

Selection notes

We need the **full medium name and concentration**, plus the working temperature range.

The shell bore is fluoropolymer-lined and fitted with an FKM gasket; the lining must not be mechanically damaged.

For coastal and high-humidity locations, specify a 316L or 2205 shell directly.

Stainless Steel High Temperature Repair Clamp

For heating mains, steam lines and other high-temperature service; silicone (VMQ) gasket, selected against the maximum working temperature.

01	Shell material	304 · 316L stainless · 2205 duplex · made to order	Available on request Dimensional tables and drawings; built to customer drawings or site measurements.
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)	
03	Gasket material	Silicone rubber (VMQ)	
04	Surface finish	Bare stainless finish · shot-blasted on request · no coating	To order, tell us Pipe material · pipe OD · medium · working pressure · quantity.
05	Bolts	M16×80 (≈5/8") gr. 8.8	
06	Pipe materials	Steel · stainless · ductile iron · PVC	
07	Forming	Rolled and welded, then re-rounded / formed on existing dies	Pressure units PSI values convert the metric ratings.
08	Working pressure	≥232 PSI (1.6 MPa)	
			OD range Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell ASTM A36 / A572 Gr. 50	Gasket ASTM D2000 class	Bolts ISO 898-1	Coating AWWA C213 (FBE)
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Fig. 1 Stainless Steel High Temperature Repair Clamp · Stainless shell – high-temperature version. See the model note above.



End face — gasket and bore
Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the medium and the **maximum working temperature**.

Silicone (VMQ) gasket; temperature range in Appendix B.

Silicone is not suitable for petroleum-based products, high mechanical wear, or concentrated acids and alkalis (Appendix B).

Stainless Steel Ultra-Low Temperature Repair Clamp

For cooling water, refrigeration and other low-temperature service; PTFE gasket.

01 Shell material	304 · 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)
03 Gasket material	PTFE
04 Surface finish	Bare stainless finish · shot-blasted on request · no coating
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	Steel · stainless · ductile iron · PVC
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Stainless Steel Ultra-Low Temperature Repair Clamp · Stainless shell – cryogenic version. See the model note above.

Selection notes

We need the **minimum working temperature**.

PTFE gasket, rated -328 to +500 °F.

For low-temperature service, confirm the low-temperature brittleness of the pipe itself.

Repair Clamps

Series RC · 9 model lines · Pipe materials: PVC · HDPE · steel · stainless · ductile iron · GRP · concrete

The workhorse range. When a pipe pits, cracks, leaks at a weld or at a joint, two half shells are wrapped around the damaged section, the bolts are tightened, and the gasket seals under compression – with the line still in service. Straight, tee, cross, elbow, reducing, socket and flange configurations cover the usual failure locations.

Code	Model	Gasket
RCSP	Straight Repair Clamp	EPDM
RCTE	Tee Repair Clamp	EPDM
RCCR	Cross Repair Clamp	EPDM
RCEL	Elbow Repair Clamp	EPDM
RCRD	Reducing Repair Clamp	EPDM
RCSK	Socket Joint Repair Clamp	EPDM
RCFL	Flange Wrap Repair Clamp	EPDM
RCLC	Leak Repair Collar	EPDM
RCSP-PMPL	PVC-M Straight Repair Clamp	EPDM

Pipe outside diameter is set by the individual model (table above); the series is supplied across 1/2" – 160" OD (DN15 – DN4000). Outside that range we build to drawing or to sample.



Straight Repair Clamp



Tee Repair Clamp



Cross Repair Clamp



Elbow Repair Clamp



Reducing Repair Clamp

Typical applications

Municipal water & sewer Repair without shutting the line down

Gas & district heating Joint and pipe-wall leaks

Industrial pipework Chemical, power, paper and mining lines

Straight Repair Clamp

Two half shells close around the damaged section, the bolts are tightened and the gasket seals under compression – with the line still in service.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	UPVC · HDPE · PPR · steel · stainless · ductile iron · GRP · concrete
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)
09	High-pressure option	Delivered to 3263 PSI (22.5 MPa / 225 kgf/cm²) · higher pressures engineered per application

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Straight Repair Clamp · Carbon steel shell – two halves closing. See the model note above.



Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

The shell is sized to the pipe's **measured outside diameter**, not to nominal size – the same nominal size has different ODs in different pipe materials (Appendix A).

Shell length follows the length of the damaged section; if the damage is longer than the shell, specify a longer unit or cover it in sections.

Pits, cracks, weld leaks and joint leaks are all suitable; tell us first if the pipe wall is badly deformed.

Tee Repair Clamp

Reinforcement and sealing after a branch has been taken off a main. Outlet form and angle set on site.

01 Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order	Available on request Dimensional tables and drawings; built to customer drawings or site measurements. To order, tell us Pipe material · pipe OD · medium · working pressure · quantity. Pressure units PSI values convert the metric ratings. OD range Band width confirmed at enquiry against the measured pipe OD.
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)	
03 Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature	
04 Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order	
05 Bolts	M20×100 (≈3/4") gr. 8.8	
06 Pipe materials	PVC · steel · ductile iron	
07 Forming	Rolled and welded, then re-rounded / formed on existing dies	
08 Working pressure	≥232 PSI (1.6 MPa)	

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Tee Repair Clamp · Carbon steel shell. See the model note above.



For ductile iron pipe



Finished – orange coating



Stainless shell

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need **both the main and the branch outside diameters**.

Outlet form (threaded / flanged / welded) is set by the connection on site.

State the tap diameter and position at enquiry – the tap size affects the shell dimensions.

Cross Repair Clamp

Reinforcement and sealing at a cross connection; the four faces close as separate shells.

01 Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)
03 Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04 Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05 Bolts	M20×100 (≈3/4") gr. 8.8
06 Pipe materials	PVC · steel · ductile iron
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Cross Repair Clamp · Carbon steel shell. See the model note above.



Stainless shell



Finished – black coating



Finished – orange coating

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

The four faces close as separate shells; we need the **main and both branch outside diameters**.

Working space at a cross connection is limited – check before installation.

Where the ends differ in size it is treated as a reducing cross; give each OD separately.

Elbow Repair Clamp

Repair of a damaged elbow. Made to any angle and centre distance – 90° / 45° / 30° / 22.5° / 11.25°.

01 Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)
03 Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04 Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	PVC · steel · ductile iron
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell
ASTM A36 / A572 Gr. 50

Gasket
ASTM D2000 class

Bolts
ISO 898-1

Coating
AWWA C213 (FBE)



Fig. 1 Elbow Repair Clamp · Carbon steel shell. See the model note above.



Stainless shell



Finished – blue coating



Finished – red coating

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the **elbow angle and centre distance**; 90° / 45° / 30° / 22.5° / 11.25° are all available.

Non-standard angles and centre distances can be made to site measurements.

Where the two ends differ in diameter, quote it as a reducer.

Reducing Repair Clamp

Repair at a reducer or where the two pipe ends differ in size; large and small end diameters are each set to measurement.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order	Available on request Dimensional tables and drawings; built to customer drawings or site measurements.
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)	
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature	
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order	To order, tell us Pipe material · pipe OD · medium · working pressure · quantity.
05	Bolts	M16×80 (≈5/8") gr. 8.8	
06	Pipe materials	PVC · steel · ductile iron	
07	Forming	Rolled and welded, then re-rounded / formed on existing dies	Pressure units PSI values convert the metric ratings.
08	Working pressure	≥232 PSI (1.6 MPa)	
			OD range Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Reducing Repair Clamp · Carbon steel shell. See the model note above.



All-stainless reducing shell – large and small ends



Finished – orange coating



Half shell – reducing step

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

Measure the large and small ends separately and state where the change of diameter falls.

If the two ends are different pipe materials, tell us both.

The length of the tapered section affects the shell length – give us that too.

Socket Joint Repair Clamp

Repair at a push-on joint; the shell wraps the junction between socket and spigot.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE — by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M20×100 (≈3/4") gr. 8.8
06	Pipe materials	PVC · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Socket Joint Repair Clamp · Carbon steel shell. See the model note above.



Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- We need the **socket OD, spigot OD and socket length**.
- Ductile iron and plastic pipe have different socket dimensions — quote by pipe material.
- Tell us the joint misalignment, as it affects gasket selection.

Flange Wrap Repair Clamp

Wrap-around repair of a leaking flange joint, carried out without breaking the flange.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · ductile iron · PVC
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Flange Wrap Repair Clamp · Carbon steel shell. See the model note above.



For ductile iron pipe



For plastic pipe



Stainless shell

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the flange OD, bolt circle diameter and number of holes.	The wrap goes on without breaking the flange; tell us the gap between the two flanges.	Non-standard flanges are made to drawing.
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Leak Repair Collar

Fast repair of pits and short cracks on small-diameter pipe; light and quick to install.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Leak Repair Collar · Carbon steel shell. See the model note above.



Half shell (open)



Finished – large size

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

For pits and short cracks on small-diameter pipe.

If the damaged section is wider than the collar, use a straight repair clamp instead.

Plastic and steel pipe differ in OD – quote the measured value.

PVC-M Straight Repair Clamp

For PVC-M pipe. The sealing face is matched to the outside diameter and surface characteristics of PVC-M pipe.

01	Shell material	PVC-M (plastic shell)
02	Pipe size	1/2" - 160" OD (DN15 - DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE — by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M12×60 (≈1/2") gr. 8.8
06	Pipe materials	PVC-M
07	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 PVC-M Straight Repair Clamp · For PVC-M pipe. See the model note above.



Two half shells (open)

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- The sealing face is matched to the PVC-M pipe OD and surface characteristics.
- Plastic pipe is less stiff — do not over-compress the wall when tightening.
- Other plastics (UPVC / HDPE / PPR) use the straight repair clamp BS-RCSP.

Saddle Outlet Tees

Series SL · 4 model lines · Pipe materials: PVC · HDPE · steel · ductile iron

Branches taken off an existing main. A saddle shell straddles the pipe, so the outlet can be tapped without cutting the line. Threaded, flanged and quick-joint outlets are available, plus a cross version with an outlet on each side. Hot tapping requires dedicated tooling and trained operators.

Code	Model	Gasket
SLTT	Threaded Saddle Outlet Tee	EPDM
SLFT	Flanged Saddle Outlet Tee	EPDM
SLQT	Quick-Joint Saddle Outlet Tee	EPDM
SLSC	Saddle Outlet Cross	EPDM

Pipe outside diameter is set by the individual model (table above); the series is supplied across 1/2" - 160" OD (DN15 - DN4000). Outside that range we build to drawing or to sample.



Threaded Saddle Outlet Tee



Flanged Saddle Outlet Tee



Quick-Joint Saddle Outlet Tee



Saddle Outlet Cross

Typical applications

New service connections Branch off a municipal main

Fire & irrigation Tap the main without interrupting supply

Industrial branches Connect a branch after hot tapping

Threaded Saddle Outlet Tee

A branch taken off a main through a threaded outlet. Hot tapping requires dedicated tooling.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE — by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥145 PSI (1.0 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)

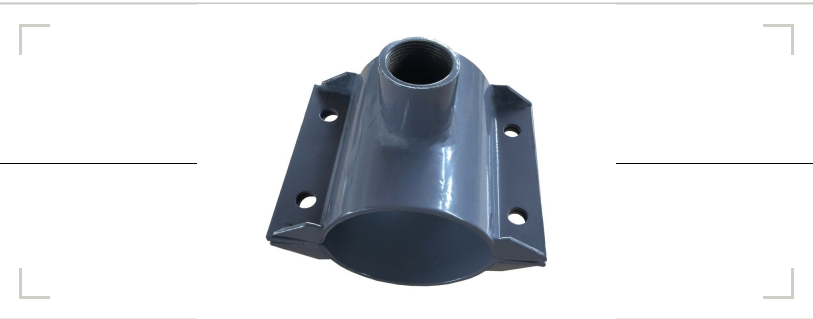


Fig. 1 Threaded Saddle Outlet Tee · Carbon steel shell — threaded outlet. See the model note above.



For ductile iron pipe For plastic pipe

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- We need the main OD and the **branch thread size**.
- Hot tapping requires dedicated tooling and must be done by trained operators.
- For thin-wall plastic pipe, the full-circumference RB series is preferable.

Flanged Saddle Outlet Tee

The outlet is flanged, for direct connection to valves and equipment.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥145 PSI (1.0 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Flanged Saddle Outlet Tee · Carbon steel shell – flanged outlet. See the model note above.

Selection notes

- We need the main OD and the **outlet flange size (NPS / class)**.
- A flanged outlet connects straight to valves and equipment.
- Hot tapping requires dedicated tooling and must be done by trained operators.

Quick-Joint Saddle Outlet Tee

The outlet is a quick joint – no welding and no threading.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥145 PSI (1.0 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Quick-Joint Saddle Outlet Tee · Carbon steel shell – quick-joint outlet.
See the model note above.



Finished – saddle mounted
Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

The outlet is a quick joint – no welding and no threading.

We need the main OD and the branch OD.

Well suited to taking a fast branch off a plastic pipe system.

Saddle Outlet Cross

A cross form with an outlet on each side of the main.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE — by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥145 PSI (1.0 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Saddle Outlet Cross · Carbon steel shell — outlets both sides. See the model note above.



Finished – saddle mounted

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- Branches are taken off both sides of the main.
- We need the main OD and the size of both branch outlets.
- Where the two branches differ, quote them separately.

Repair Branch Tees

Series RB · 4 model lines · Pipe materials: PVC · HDPE · steel · ductile iron

Branches taken off an existing main, with the two half shells wrapping the full circumference. The difference from SL: SL straddles the pipe as a saddle, RB closes around it – preferred where seal reliability matters more or where the pipe wall is thin.

Code	Model	Gasket
RBRT	Threaded Repair Branch Tee	EPDM
RBRF	Flanged Repair Branch Tee	EPDM
RBRQ	Quick-Joint Repair Branch Tee	EPDM
RBRX	Repair Branch Cross	EPDM

Pipe outside diameter is set by the individual model (table above); the series is supplied across 1/2" - 160" OD (DN15 - DN4000). Outside that range we build to drawing or to sample.



Threaded Repair Branch Tee



Flanged Repair Branch Tee



Quick-Joint Repair Branch Tee



Repair Branch Cross

Typical applications

New branches Where full-circumference sealing is required

Thin-wall & plastic pipe Where a saddle would distort the pipe

Retrofit projects Adding branches to existing lines

Threaded Repair Branch Tee

A repair-branch tee: the shell closes around the main and a threaded branch is taken off.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Threaded Repair Branch Tee · Carbon steel shell – threaded outlet. See the model note above.



Finished – full circumference

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- Full-circumference closure tolerates more ovality in the main than a saddle (SL).
- We need the main OD and the branch thread size.
- Difference from SL: SL straddles the pipe, RB closes around it.

Flanged Repair Branch Tee

A repair-branch tee with a flanged outlet.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Flanged Repair Branch Tee · Carbon steel shell – flanged outlet. See the model note above.



Finished – full circumference

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- The outlet is flanged, for direct connection to valves and equipment.
- We need the main OD and the outlet flange size.
- Full-circumference closure suits thinner walls or higher sealing requirements.

Quick-Joint Repair Branch Tee

A repair-branch tee with a quick-joint outlet.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Quick-Joint Repair Branch Tee · Carbon steel shell — quick-joint outlet.
See the model note above.



Finished — full circumference

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- The outlet is a quick joint — no welding and no threading.
- We need the main OD and the branch OD.
- Suited to branches that have to be taken apart frequently.

Repair Branch Cross

A repair-branch cross, with outlets on both sides of the main.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Repair Branch Cross · Carbon steel shell. See the model note above.



Finished – blue coating

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- Outlets on both sides of the main, closing around the full circumference.
- We need the main OD and the size of both branch outlets.
- Working space at a four-way connection is limited – check before installation.

Expansion Joints

Series EJ · 6 model lines · Pipe materials: PVC · steel · ductile iron · GRP

Connecting and compensating between pipe sections. The joint allows axial extension and a limited angular deflection, and pipework does not have to be moved to install or remove it. Common at valve and pump connections, for thermal movement, and for tying in two existing pipelines.

Code	Model	Gasket
EJES	Straight Expansion Coupling	EPDM
EJEF	Flanged Expansion Adapter	EPDM
EJED	Double-Flange Expansion Joint	EPDM
EJEE	Elbow Expansion Joint	EPDM
EJET	Tee Expansion Joint	EPDM
EJEX	Cross Expansion Joint	EPDM

Pipe outside diameter is set by the individual model (table above); the series is supplied across 1/2" - 160" OD (DN15 - DN4000). Outside that range we build to drawing or to sample.



Straight Expansion Coupling



Flanged Expansion Adapter



Double-Flange Expansion Joint



Elbow Expansion Joint



Tee Expansion Joint

Typical applications

Valve & pump connections Removal
clearance and thermal movement

Network rehabilitation Tying two
existing pipelines together

Ground settlement Sections that must
absorb displacement

Straight Expansion Coupling

Two pipe ends joined face to face, allowing axial extension and a limited angular deflection; nothing has to be moved to install or remove it.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · steel · ductile iron · GRP
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Straight Expansion Coupling · Carbon steel shell. See the model note above.

Selection notes

We need the outside diameter at both ends and the **extension required**.

Axial extension and a limited angular deflection are allowed; the figures are confirmed by size.

Commonly used to tie two existing pipelines together.



For ductile iron pipe



For plastic pipe

Figs. 2+ Shell and pipe-material versions of the same model

Flanged Expansion Adapter

An expansion connection with a flange at one end and a push-on joint at the other.

01 Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" – 160" OD (DN15 – DN4000)
03 Gasket material	EPDM · NBR · VMQ · FKM · PTFE — by medium and temperature
04 Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	Steel · ductile iron
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell
ASTM A36 / A572 Gr. 50

Gasket
ASTM D2000 class

Bolts
ISO 898-1

Coating
AWWA C213 (FBE)



For ductile iron pipe



For plastic pipe

Figs. 2+ Shell and pipe-material versions of the same model

Fig. 1 Flanged Expansion Adapter · Carbon steel shell — flanged one end. See the model note above.

Selection notes

A flange at one end, a push-on joint at the other.

We need the pipe OD at the push-on end and the flange size (NPS / class).

Nothing has to be moved to install or remove it.

Double-Flange Expansion Joint

Flanged both ends, for expansion compensation at valve and pump connections.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Double-Flange Expansion Joint · Carbon steel shell — flanged both ends. See the model note above.



For ductile iron pipe For plastic pipe

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

Flanged both ends, commonly at valve and pump connections.

We need the flange size at both ends and the extension required.

Nothing has to be moved to install or remove it.

Elbow Expansion Joint

An expansion joint in elbow form, for connection and compensation at a direction change.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Elbow Expansion Joint · Carbon steel shell — elbow. See the model note above.



Finished — flanged both ends

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the elbow angle and the connection form at both ends.	For connection and compensation at a direction change.	Angle and centre distance are set on site.
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Tee Expansion Joint

An expansion joint in tee form.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Tee Expansion Joint · Carbon steel shell – tee. See the model note above.



Finished – three-way

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the pipe OD or flange size at all three connections.	For connection and compensation at a branch.	Outlet size and angle are set on site.
--	--	--

Cross Expansion Joint

An expansion joint in cross form.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · ductile iron
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Cross Expansion Joint · Carbon steel shell – cross. See the model note above.



Finished – four-way

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

- We need the pipe OD or flange size at all four connections.
- For connection and compensation at a cross connection.
- Where the ends differ, quote them separately.

Socket Joint Fittings

Series SJ · 6 model lines · Pipe materials: PVC · PE pipe systems

Direction changes and branches in plastic pipe systems. Both ends are sockets that push directly onto spigot pipe, covering elbows, tees, crosses and flange adaptors for PE and PVC systems.

Code	Model	Gasket
SJDS	Double Socket Coupling	EPDM
SJSF	Socket-to-Flange Adapter	EPDM
SJSG	Spigot-to-Flange Adapter	EPDM
SJDE	Double Socket Elbow	EPDM
SJDT	Triple Socket Tee	EPDM
SJDQ	Quad Socket Cross	EPDM

Pipe outside diameter is set by the individual model (table above); the series is supplied across 1/2" - 160" OD (DN15 - DN4000). Outside that range we build to drawing or to sample.



Double Socket Coupling



Socket-to-Flange Adapter



Spigot-to-Flange Adapter



Double Socket Elbow



Triple Socket Tee

Typical applications

Plastic pipe direction changes Elbows, tees and crosses

Material transition Plastic pipe to metal flange

Rural water & irrigation Fast assembly of PE networks

Double Socket Coupling

Sockets at both ends, for joining two spigot-ended pipes.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · PE pipe systems
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Double Socket Coupling · Double socket coupling. See the model note above.



Finished – sockets both ends

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

Sockets at both ends, for joining two spigot-ended pipes.

For UPVC / PVC-M pipe; currently made in 2" – 32" (φ63 – φ800 mm).

The spigot must go fully home, with an even gap all round.

Socket-to-Flange Adapter

A socket at one end and a flange at the other, taking plastic pipe to a metal flanged connection.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · PE pipe systems
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

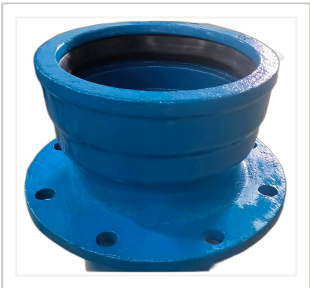
OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Socket-to-Flange Adapter · Socket-to-flange adaptor. See the model note above.



Finished – flange end

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

A socket at one end and a flange at the other, taking plastic pipe to a metal flanged connection.

We need the pipe OD at the socket end and the flange size.

The gasket inside the socket is supplied with the fitting.

Spigot-to-Flange Adapter

A spigot at one end and a flange at the other.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · PE pipe systems
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Spigot-to-Flange Adapter · Spigot-to-flange adaptor. See the model note above.



Finished – side view

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

A spigot at one end and a flange at the other.

We need the pipe OD at the spigot end and the flange size.

Paired with the socket-to-flange adaptor (BS-SJSF) it completes a direction change.

Double Socket Elbow

A double-socket elbow for direction changes in plastic pipe systems.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · PE pipe systems
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Double Socket Elbow · Double socket elbow. See the model note above.



Finished – direction change

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

A double-socket elbow for direction changes in plastic pipe systems.	We need the pipe OD and the angle of the turn.	Non-standard angles made to drawing.
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Triple Socket Tee

A tee with sockets at all three ends.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · PE pipe systems
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Triple Socket Tee · Triple socket tee. See the model note above.



Finished – three-way

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

Sockets at all three ends, for branches in plastic pipe systems.	We need the outside diameter at all three ends.	Where the ends differ, it is treated as a reducing tee.
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Quad Socket Cross

A cross with sockets at all four ends.

01	Shell material	Carbon steel (Q235) · 304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	EPDM · NBR · VMQ · FKM · PTFE – by medium and temperature
04	Surface finish	Fusion-bonded epoxy powder · galvanized · bare stainless · made to order
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	PVC · PE pipe systems
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Quad Socket Cross · Quad socket cross. See the model note above.



Finished – four-way

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

Sockets at all four ends, for cross branches in plastic pipe systems.	We need the outside diameter at all four ends.	Where the ends differ, quote each separately.
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Specialty Service

Series SP · 6 model lines · Pipe materials: Selected by medium and temperature

Same construction, different materials. Only the shell and gasket materials change, to suit high pressure, high temperature, cryogenic service, oils, acids and corrosive media. Selection requires the full medium name and concentration, plus the working temperature range.

Code	Model	Service
SP-HIGH	High Pressure Repair Clamp	High pressure
SP-TEMP	High Temperature Repair Clamp	High temperature
SP-LOW	Ultra-Low Temperature Repair Clamp	Cryogenic
SP-OIL	Oil Resistant Repair Clamp	Oils
SP-ACID	Acid & Alkali Resistant Repair Clamp	Acids & alkalis
SP-CORR	Corrosion Resistant Repair Clamp	Corrosive

Pipe outside diameter is set by the individual model (table above); the series is supplied across 1/2" - 160" OD (DN15 - DN4000). Outside that range we build to drawing or to sample.



High Pressure Repair Clamp



High Temperature Repair Clamp



Ultra-Low Temperature Repair Clamp



Oil Resistant Repair Clamp



Acid & Alkali Resistant Repair Clamp

Typical applications

High-pressure lines Above the standard pressure class

High & low temperature Heating, steam and cooling water lines

Corrosive media Concentrated acid, oils, coastal environments

High Pressure Repair Clamp

For high-pressure lines, engineered per application. Delivered to 225 kgf/cm² (22.5 MPa / 3263 PSI); higher pressures case by case.

01	Shell material	Q355 low-alloy steel · 304 / 316L stainless · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	NBR / FKM – by medium and temperature
04	Surface finish	Epoxy powder / bare stainless
05	Bolts	M16×80 (≈5/8") gr. 12.9
06	Pipe materials	Steel · stainless steel
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa) standard · high pressure engineered per application
09	High-pressure option	Delivered to 3263 PSI (22.5 MPa / 225 kgf/cm²) · higher pressures engineered per application

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 High Pressure Repair Clamp · High-pressure repair clamp – finished assembly. See the model note above.



Carbon steel shell – high pressure



High-pressure assembly – heavy wall barrel



Specialty shell – threaded connection

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the working pressure and the test pressure.

Delivered to 225 kgf/cm² (22.5 MPa / 3263 PSI); higher pressures engineered per application.

Gasket material selected by medium and temperature.

High Temperature Repair Clamp

For heating mains and steam lines; gasket selected by working temperature.

01	Shell material	304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	Silicone rubber (VMQ)
04	Surface finish	Epoxy powder / bare stainless
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel · stainless steel
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 High Temperature Repair Clamp · High temperature – silicone gasket.
See the model note above.



High-temperature shell – face and fasteners

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the medium and the **maximum working temperature**.

Silicone (VMQ) gasket.

Silicone is not suitable for petroleum-based products, high mechanical wear, or concentrated acids and alkalis (Appendix B).

Ultra-Low Temperature Repair Clamp

For cooling water and refrigeration; PTFE gaskets available.

01 Shell material	304 / 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" - 160" OD (DN15 - DN4000)
03 Gasket material	PTFE
04 Surface finish	Epoxy powder / bare stainless
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	Steel · stainless steel
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell
ASTM A36 / A572 Gr. 50

Gasket
ASTM D2000 class

Bolts
ISO 898-1

Coating
AWWA C213 (FBE)



Fig. 1 Ultra-Low Temperature Repair Clamp · Cryogenic – PTFE gasket. See the model note above.



Stainless shell – cryogenic version

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the **minimum working temperature**.

PTFE gasket available, rated -328 to +500 °F.

For low-temperature service, confirm the low-temperature brittleness of the pipe itself.

Oil Resistant Repair Clamp

For diesel, lubricating oil and similar lines, with an NBR gasket.

01	Shell material	304 / 316L stainless · 2205 duplex · made to order
02	Pipe size	1/2" – 160" OD (DN15 – DN4000)
03	Gasket material	Nitrile rubber (NBR)
04	Surface finish	Epoxy powder / bare stainless
05	Bolts	M16×80 (≈5/8") gr. 8.8
06	Pipe materials	Steel
07	Forming	Rolled and welded, then re-rounded / formed on existing dies
08	Working pressure	≥232 PSI (1.6 MPa)

Available on request
Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us
Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units
PSI values convert the metric ratings.

OD range
Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell	Gasket	Bolts	Coating
ASTM A36 / A572 Gr. 50	ASTM D2000 class	ISO 898-1	AWWA C213 (FBE)



Fig. 1 Oil Resistant Repair Clamp · Oil service — NBR gasket. See the model note above.



Specialty shell — threaded connection

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the full name of the oil.

NBR gasket.

NBR is not suitable for potable water, strongly oxidizing acids, ketones, esters or ozone (Appendix B).

Acid & Alkali Resistant Repair Clamp

For concentrated sulphuric acid and similar media; FKM bonded to the shell bore.

01 Shell material	304 / 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" - 160" OD (DN15 - DN4000)
03 Gasket material	FKM bonded to the shell bore
04 Surface finish	Fluoropolymer-lined bore / bare stainless
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	Steel · stainless steel
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell
ASTM A36 / A572 Gr. 50

Gasket
ASTM D2000 class

Bolts
ISO 898-1

Coating
AWWA C213 (FBE)



Fig. 1 Acid & Alkali Resistant Repair Clamp · Acid service – FKM bonded to the bore. See the model note above.



Specialty shell – threaded connection

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the **full medium name and concentration**.

FKM is bonded to the shell bore.

FKM is not suitable for ketones, esters, low-molecular-weight organic acids, ammonia water or hot water (Appendix B).

Corrosion Resistant Repair Clamp

For corrosive media and coastal environments; lined or stainless shell.

01 Shell material	304 / 316L stainless · 2205 duplex · made to order
02 Pipe size	1/2" - 160" OD (DN15 - DN4000)
03 Gasket material	FKM + fluoropolymer-lined bore
04 Surface finish	Fluoropolymer-lined bore / bare stainless
05 Bolts	M16×80 (≈5/8") gr. 8.8
06 Pipe materials	Steel · stainless steel
07 Forming	Rolled and welded, then re-rounded / formed on existing dies
08 Working pressure	≥232 PSI (1.6 MPa)

Available on request

Dimensional tables and drawings; built to customer drawings or site measurements.

To order, tell us

Pipe material · pipe OD · medium · working pressure · quantity.

Pressure units

PSI values convert the metric ratings.

OD range

Band width confirmed at enquiry against the measured pipe OD.

Standards

Shell
ASTM A36 / A572 Gr. 50

Gasket
ASTM D2000 class

Bolts
ISO 898-1

Coating
AWWA C213 (FBE)



Fig. 1 Corrosion Resistant Repair Clamp · Corrosive service — lined bore. See the model note above.



Stainless shell — corrosion resistant

Figs. 2+ Shell and pipe-material versions of the same model

Selection notes

We need the full medium name and concentration.

The shell bore is fluoropolymer-lined, or a stainless shell is used instead.

For coastal and high-humidity locations, a stainless shell is advisable.

Installation & Maintenance

Four steps: clean, position, tighten, check.

Clean

Deburr and clean the pipe wall over the damaged section, leaving enough length to seat the shell. Where the wall is visibly deformed or a crack is still propagating, confirm first that the clamp can cover it.

Position

Centre the two half shells on the pipe and line the gasket up with the damage. If the gasket is supplied loose, lubricate it before fitting – unlubricated gaskets creep under compression and bolt torque drops.

Tighten

Tighten diagonally in 2–3 stages, never in one pass – a single-sided pull distorts the shell and loads the gasket unevenly. Ask our sales team whether a torque wrench and a specified torque value apply.

Check

Pressurize and observe; no leakage means the job is done. Re-check the bolts once after the first pressurization.

Three things to remember

Lubricate the gasket A loose gasket must be lubricated before fitting. Unlubricated it creeps under compression, bolt torque falls away, and the joint has to be re-tightened repeatedly.

Tighten diagonally, in stages Running the bolts down in one pass loads one side, distorts the shell and compresses the gasket unevenly. Use 2–3 passes, alternating diagonally.

Re-tighten in hot service On lines with large temperature swings or sustained high temperature the gasket relaxes slowly; put periodic bolt re-tightening into the maintenance schedule.

Working on a live line The clamp can be installed without shutting the pipe down, but working under pressure carries risk and must follow site safety procedures, with operators who have the relevant experience. For high-pressure service we recommend reducing the pressure or draining down first.

Full installation instructions

Illustrated step-by-step instructions are available per series – ask for the model you need.

Technical support

If you hit a problem on site, contact our sales team – we can advise by phone or video.

Frequently Asked Questions

Selection, installation, pressure and materials – the six we are asked most.

How do I select a clamp?

Size the shell by **pipe outside diameter**, not by nominal size. Send us five items: pipe material, measured outside diameter, medium, working pressure and quantity. The same nominal size has different outside diameters in different pipe materials – an NPS 4 line may be 4.331", 4.500" or 4.646" OD. See Appendix A.

Can it be installed with the line live?

Yes. The two half shells close around the pipe and seal as the bolts are tightened – no shutdown and no hot work. Working under pressure carries risk and must follow site safety procedures; for high-pressure service we recommend depressurizing or draining first.

What if my pipe size is outside the range?

The standard range is NPS 1/2" – 160" (DN15 – DN4000). Outside it, or for reducers, elbows, tees, crosses, flanges and socket joints, we build to your drawing, to a sample, or to site measurements.

It still leaks after installation. Why?

The three usual causes: ① the gasket was not aligned with the damage, or shifted while fitting; ② bolts were run down on one side in a single pass, distorting the shell and loading the gasket unevenly; ③ burrs and debris were left on the pipe wall so the sealing face cannot seat. Working through the four steps on the Installation page usually resolves it; if not, contact our sales team.

What is the pressure limit?

Standard products are rated at not less than ≥ 232 PSI (1.6 MPa), tested unit by unit before dispatch – no batch sampling. Service above the standard rating is handled as a custom job: send the working and test pressures and we will confirm.

Can the materials be changed?

Yes. Gaskets are selected by medium and working temperature from EPDM / NBR / VMQ / FKM / PTFE; finishes include epoxy powder, galvanizing and bare stainless, with a fluoropolymer-lined bore for corrosive media.

Pipe Outside Diameters

One nominal size, two different outside diameters – in the US, PVC pressure pipe is made to both IPS and CIOD. Sizing a clamp off the wrong one is the most common cause of a leak.

NPS	Steel (IPS)	Ductile iron (CIOD)	PE / PVC- U	Metric	NPS	Steel (IPS)	Ductile iron (CIOD)	PE / PVC- U	Metric
1/2"	0.840	—	0.787	DN15	12"	12.750	13.20	12.402	DN300
3/4"	1.050	—	0.984	DN20	14"	14.000	15.30	13.976	DN350
1"	1.315	—	1.260	DN25	16"	16.000	17.40	15.748	DN400
1-1/4"	1.660	—	1.575	DN32	18"	18.000	19.50	—	DN450
1-1/2"	1.900	—	1.969	DN40	20"	20.000	21.60	19.685	DN500
2"	2.375	—	2.480	DN50	24"	24.000	25.80	24.803	DN600
2-1/2"	2.875	—	2.953	DN65	28"	28.000	30.00	27.953	DN700
3"	3.500	3.96	3.543	DN80	30"	30.000	32.00	—	DN750
3-1/2"	4.000	—	—	DN90	32"	32.000	34.00	31.496	DN800
4"	4.500	4.80	4.331	DN100	36"	36.000	38.30	35.433	DN900
5"	5.563	—	4.921	DN125	40"	40.000	42.60	39.370	DN1000
6"	6.625	6.90	6.299	DN150	42"	42.000	44.50	—	DN1050
8"	8.625	9.05	7.874	DN200	44"	44.000	46.60	—	DN1100
10"	10.750	11.10	9.843	DN250	48"	48.000	50.80	47.244	DN1200

Read the first two columns against each other: an 8" line is 8.625" in steel (IPS) but 9.05" in ductile iron or CIOD PVC – 0.425" (10.8 mm) apart, enough to make a clamp leak. Confirm every order against the measured outside diameter. Range 1/2" – 160" OD (DN15 – DN4000); larger sizes built to measured OD. The right-hand table continues the series from 18".

Units

inches (1 in = 25.4 mm)

Where the figures come from

Steel (IPS): ASME B36.10
Ductile iron: AWWA C151
PE / PVC-U: metric source tables

Why OD beats nominal size

The gasket seals against the pipe wall, so the shell bore must match the pipe OD: too small will not close, too large will not load the gasket. Both leak.

To order, give us

Pipe material · measured OD · medium · working pressure · quantity

Gasket Material Selection

Gaskets are selected by medium and temperature. The wrong compound will leak whatever the shell is made of.

Material	Temperature °F	Suitable media	Not suitable for	Typical service
EPDM Ethylene propylene diene	-40 to 194 °F	Potable water · waste water · hot water · low-pressure steam · many oxidizing chemicals · acid and alkali solutions	Fuel gas · petroleum products · mineral oils · oil-bearing compressed air · hydrocarbon fuels	Municipal water / sewer / general industrial water
NBR Nitrile	-4 to 212 °F	Diesel · lubricating oil · natural gas · low-aromatic fuels · oil-bearing compressed air · waste water	Potable water · strongly oxidizing acids · ketones · esters · ozone	Oil lines / gas lines / oily waste water
VMQ Silicone rubber	-76 to 392 dry / 248 wet °F	Dry heat · neutral aqueous solutions · some chemical solutions · low temperature	Petroleum-based products · high mechanical wear · concentrated acids and alkalis	Heating mains / steam lines / high-temperature flue gas
FKM Fluorocarbon	-4 to 392 °F	Concentrated sulphuric acid · strongly oxidizing media · many organic solvents · fuels · hot oils	Ketones · esters · low-molecular-weight organic acids · ammonia water · hot water	Chemical lines / concentrated acids / hot oils
PTFE Polytetrafluoroethylene	-328 to 500 °F	Almost all chemical media · cryogenic service · strong acids and alkalis	Molten alkali metals · elemental fluorine · fluorinating agents at high temperature and pressure	Cryogenic (cooling water) / strongly corrosive media

Two things to note

- ① These temperatures are ratings of the **compound itself**, not of the finished clamp, whose service temperature also depends on shell material, coating, bolts and pressure.
- ② Where temperature swings widely or stays high, add **periodic bolt re-tightening** to the maintenance programme.

Default selection

Water and waste water: EPDM
Oils and fuel gas: NBR
High temperature: VMQ / FKM
Strong corrosives: FKM / PTFE
Cryogenic: PTFE

If unsure

Give us the full medium name and concentration, and the working temperature range.

Drinking water

NSF/ANSI 61 or WRAS compounds available to order – state it at enquiry.

Materials & Standards

Material grades and the standards behind them, part by part, for customer verification and tender reference.

Part	Material	Standard
Shell	Carbon steel, Q235	GB/T 700 ≈ ASTM A36
Shell	Low-alloy high-strength steel, Q355	GB/T 1591 ≈ ASTM A572 Gr. 50
Shell	Welded steel pipe shell	GB/T 3091 ≈ ASTM A53 Type E Gr. B
Shell	304 stainless steel (UNS S30400)	ASTM A240
Shell	316L stainless steel (UNS S31603)	ASTM A240
Shell	2205 duplex stainless (UNS S32205)	ASTM A240
Gasket	EPDM / NBR	GB/T 21873 ≈ ASTM D2000
Gasket	Silicone (VMQ) / FKM	GB/T 21873 · to be agreed
Gasket	Potable water service	NSF/ANSI 61 compound to order
Bolts	Grade 12.9 high-strength bolts	ISO 898-1 (metric thread)
Bolts	Grade 8.8 high-strength bolts	ISO 898-1 (metric thread)
Bolts	Stainless A2-70 / A4-80	ISO 3506-1 (metric thread)
Surface	Fusion-bonded epoxy powder	AWWA C213 (FBE)
Surface	Bare stainless / shot-blasted	— (no coating)
Surface	Fluoropolymer-lined bore	To be agreed

Left column: the grades we work to in production. ASTM and AWWA references give the engineering equivalent, marked ≈. **ASTM A53 Type E** is the welded-pipe specification – A106 covers seamless pipe only and does not apply here. US grades and imperial threads can be supplied to order.

Pressure & testing

Standard products are rated at not less than ≥232 PSI (1.6 MPa), and **every unit is pressure tested** before dispatch — no batch sampling. Above the standard rating, give us the working and test pressures and we will confirm. Third-party witnessed testing must be stated at enquiry. PSI values are exact conversions of the metric ratings (1 MPa = 145.04 PSI); imperial ratings are quoted on request.

Shipping documents

Mill certificate ·
dimensional sheet ·
pressure test record –
agreed to the order;
third-party inspection
separately.

Management systems

ISO 9001:2015 · ISO
14001:2015
ISO 45001:2018

Product Selection Matrix

Find the series by pipe material. ● = a suitable configuration exists; — = not recommended, or to be confirmed individually.

Pipe material	RC	SL	RB	EJ	SJ
UPVC / PVC-U / PVC-M	●	●	●	●	●
HDPE / PE100	●	●	●	●	●
PPR / PP	●	●	●	—	—
ABS	●	●	●	—	—
Steel / galvanized	●	●	●	●	—
Stainless steel	●	—	—	—	—
Ductile iron	●	●	●	●	—
Cast iron	●	●	●	●	—
GRP / FRP	●	—	—	●	—
Concrete (PCCP)	●	—	—	—	—
Steel-wire reinforced PE	●	●	●	—	—
Grooved pipe	●	—	—	—	—

Series key: RC Repair Clamps · SL Saddle Outlet Tees · RB Repair Branch Tees · EJ Expansion Joints · SJ Socket Joint Fittings. SP and SS are the same construction in different materials — not listed by pipe material; select them by medium, temperature and whether corrosion or repainting is acceptable.

How to use this table

- Read across from the pipe material to the series available, then down by duty:
- Leak in the pipe** → RC repair clamps (straight / tee / cross / elbow / reducing / socket / flange)
 - Branch off an existing main** → SL saddle outlet or RB repair branch
 - Join two pipes, allow movement** → EJ expansion joints
 - Plastic pipe direction or branch** → SJ socket joint fittings
 - No corrosion / no repainting** → SS stainless series (all stainless)

Pipe material not listed

Give us the full material name, outside diameter and wall thickness, and we will confirm whether a configuration exists.

Non-standard sizes

Range 1/2" - 160" OD; outside it, built to drawing or to sample.

Enquiry Form

This page may be copied. Send it back by fax, e-mail, or as a photograph. Complete information shortens the quotation.

Example: NPS 8" ductile iron · measured OD 8.74" · wall 0.31" · potable water · 145 PSI · ambient · 30 pcs

1 · Customer Customer

Required: company · contact · phone, plus pipe and quantity — those four get you a quote

Company

Contact

Phone / mobile

E-mail / fax

Shipping address

2 · Pipe & service Pipe & Service

Pipe OD, measured (in)

Nominal size (NPS)

Wall thickness (in)

Quantity (pcs / ft)

☐ PVC ☐ Steel / galvanized ☐ Ductile iron ☐ Stainless ☐ GRP ☐ Concrete ☐ Other

☐ Indoor ☐ Trench ☐ Buried ☐ Submerged ☐ Live line

Medium & concentration

Working pressure (PSI)

Working temperature (°F)

3 · Product & quantity Product

☐ SS Stainless ☐ RC Repair clamp ☐ SL Saddle outlet ☐ RB Repair branch ☐ EJ Expansion joint ☐ SJ Socket fitting ☐ SP Specialty

Model code (see series pages)

Quantity

Lead time required

☐ Shell: ☐ 304 ☐ 316L ☐ 2205 ☐ Carbon steel ☐ As advised

☐ Gasket: ☐ EPDM ☐ NBR ☐ VMQ ☐ FKM ☐ PTFE ☐ As advised

4 · Documents & packing Documents & Packing

Documents required

Packing requirements

☐ Mill certificate ☐ Dimensional sheet

☐ Pressure test record

☐ Third-party test report ☐ Drawing approval ☐ Witnessed pressure test

Other requirements

How to measure pipe OD (the field most often filled in wrong)

01 Measure the **outside** of the pipe with a caliper or tape — not the bore, and not the thread.

03 Measure at **three points and take the largest**; on an oval pipe we size to the maximum OD.

02 Remove rust, scale and coating back to **bare metal** before measuring, or the shell will not close.

04 If you cannot measure it, send the pipe material and nominal size and we will read it off the standard table (Appendix A).

Send to

Tel +86 519 8872 3665

Mobile +86 137 7518 8065

Fax +86 519 8118 2879

Web www.czsbgsj.com

No. 15-2 Zhongyang Road

Zhenxi Industrial Park, Henglin

Changzhou, Jiangsu, China

PRODUCT SERIES

SS	Stainless Steel Series	10 models
RC	Repair Clamps	9 models
SL	Saddle Outlet Tees	4 models
RB	Repair Branch Tees	4 models
EJ	Expansion Joints	6 models
SJ	Socket Joint Fittings	6 models
SP	Specialty Service	6 models

Not finding your pipe size?

We build to drawing, to sample or to specification. Shell material, gasket material and coating are all selected to suit the service.

ADDRESS

No. 15-2 Zhongyang Road, Zhenxi Industrial Park
Henglin Town, Changzhou Economic Development Zone
Jiangsu 213101, China

TEL

+86 519 8872 3665
+86 137 7518 8065
Fax +86 519 8118 2879

WEB

www.czsbgsj.com