

RUBBER EXPANSION JOINTS RANGE

DATA SHEET

1

Single Sphere



2

Spool Type



3

Union Type

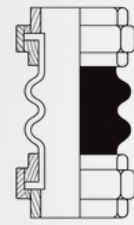


PRODUCT RANGE

A Selection of Rubber Expansion Joints

totflex

THREADED UNION TYPE RUBBER EXPANSION JOINT

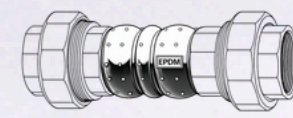


PERFORMANCE

Temp:
-20°C to +110°C

Pressure Rating:
up to 25 bar

Burst Pressure:
3× working pressure



Threaded Union Type RUBBER EXPANSION JOINTS

Absorb vibration . Componsate movment . Protect piping



Threaded union rubber expansion joints isolate vibration and accommodate movement in small-bore HVAC, utility water, compressed air, and equipment connections.



Vibration & noise isolation



Axial / lateral / angular
movement absorption



Full-face sealing reliability



Reduc stress on pumps
& equipment



Product Overview

TOTFLEX T281 Union Type Rubber Expansion Joint is a threaded, union-ended flexible connector for small-bore piping, engineered to isolate vibration/noise and accommodate limited axial, lateral, and angular movement at equipment connections. Available DN15–DN80 with EPDM/NBR/CR/NR rubber and reinforced fabric, and union material options in malleable iron, SS304, or SS316L. Rated -20°C to +110°C, up to 25 bar, with burst pressure 3× working pressure.

Advantages

- Threaded union ends for easy installation and maintenance removal.
- Vibration/noise isolation protects pumps, valves, meters, and equipment.
- Axial/lateral/angular movement absorption reduces stress from expansion and misalignment.
- Reliable sealing via elastomer-to-metal seating and controlled compression.
- Selectable rubber compounds and fabric reinforcement to match service conditions.
- Union materials in malleable iron, SS304, or SS316L for corrosion/spec requirements.

Application Areas

- Building HVAC loops and branches (fan-coils, boiler/chiller rooms).
- Pump skids; suction/discharge connections for vibration isolation.
- Domestic/utility water lines (compound dependent).
- Compressed air and plant utility services.
- Water/wastewater equipment connections (valves, meters, small pumps).
- Packaged/solar mechanical systems using threaded unions.
- General machinery and motor-driven equipment connections.

THREADED RUBBER EXPANSION JOINT - UNION TYPE - SS304

Description - T281 Union Type is a threaded rubber expansion joint with union ends, designed to isolate vibration/noise and absorb axial/lateral/angular movement in compact piping. DN-based face-to-face lengths: 95–180 mm.

Size Range

DN15–DN80

Design:

Union Type / Single Arch

Rubber Options

EPDM / NBR / CR / NR

Construction:

Reinforced rubber body + fabric layer (polyester/nylon/aramid)

Union material

Malleable iron / SS304

Connection

Threaded union (male/female per configuration)



Axial Compression
22 mm



Axial Extension
6 mm



Lateral Deflection
22 mm



Angular Deflection
35°

DN	Length	Outer Diameter	Internal Diameter	Union Material SS304
mm	mm	mm	mm	Item code
15	95	-	32	T281_10000000-00
20	95	-	40	T281_10000003-00
25	105	-	50	T281_10000006-00
32	115	-	65	T281_10000009-00
40	135	-	80	T281_10000012-00
50	150	-	100	T281_10000015-00
65	165	-	125	T281_10000018-00
80	180	-	150	T281_10000021-00



** For sizes outside the listed range, please contact us with your required DN and connection details for a custom quotation.

THREADED RUBBER EXPANSION JOINT - UNION TYPE - SS316L

Description - T281 Union Type is a threaded rubber expansion joint with union ends, designed to isolate vibration/noise and absorb axial/lateral/angular movement in compact piping. DN-based face-to-face lengths: 95-180 mm.

Size Range

DN15-DN80

Design:

Union Type / Single Arch

Rubber Options

EPDM / NBR / CR / NR

Construction:

Reinforced rubber body + fabric layer (polyester/nylon/aramid)

Union material

Malleable iron / SS316L

Connection

Threaded union (male/female per configuration)



DN	Length	Outer Diameter	Internal Diameter	Union Material SS316L
mm	mm	mm	mm	Item code
15	95	-	32	T281_10000001-00
20	95	-	40	T281_10000004-00
25	105	-	50	T281_10000007-00
32	115	-	65	T281_10000010-00
40	135	-	80	T281_10000013-00
50	150	-	100	T281_10000016-00
65	165	-	125	T281_10000019-00
80	180	-	150	T281_10000022-00



** For sizes outside the listed range, please contact us with your required DN and connection details for a custom quotation.

THREADED RUBBER EXPANSION JOINT - UNION TYPE - CS

Description - T281 Union Type is a threaded rubber expansion joint with union ends, designed to isolate vibration/noise and absorb axial/lateral/angular movement in compact piping. DN-based face-to-face lengths: 95-180 mm.

Size Range

DN15-DN80

Design:

Union Type / Single Arch

Rubber Options

EPDM / NBR / CR / NR

Construction:

Reinforced rubber body + fabric layer (polyester/nylon/aramid)

Union material

Malleable iron / CS

Connection

Threaded union (male/female per configuration)



DN	Length	Outer Diameter	Internal Diameter	Union Material CS
mm	mm	mm	mm	Item code
15	95	-	32	T281_10000002-00
20	95	-	40	T281_10000005-00
25	105	-	50	T281_10000008-00
32	115	-	65	T281_10000011-00
40	135	-	80	T281_10000014-00
50	150	-	100	T281_10000017-00
65	165	-	125	T281_10000020-00
80	180	-	150	T281_10000023-00



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THREADED RUBBER EXPANSION JOINT - UNION TYPE

OPTIONAL UNION TYPES



Union Type with Tie Cable



Equipped with stainless steel tie cables for controlled movement and added safety.

What it is: Threaded rubber expansion joint with tie-cable restraint

Purpose: Limits extension, reduces vibration/noise, protects equipment

Use for: HVAC branches, small pumps, compressors, utility lines

Options: CS / SS304 / SS316 union materials (rubber compound per service)



Union Type with Bolted Connections



Features bolted flanges with safety rods (CS/SS304/SS316L) for added joint restraint and security.

What it is: Threaded rubber expansion joint with bolted restraint

Purpose: Secure connection, controlled movement, reduces piping stress

Use for: Building mechanical piping, pump skids, water lines, compressed air

Options: CS / SS304 / SS316 union materials (rubber compound per service)



THREADED UNION TYPE RUBBER EXPANSION JOINT