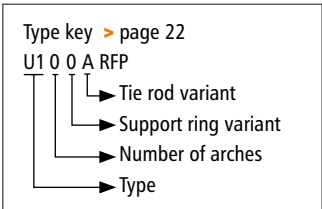


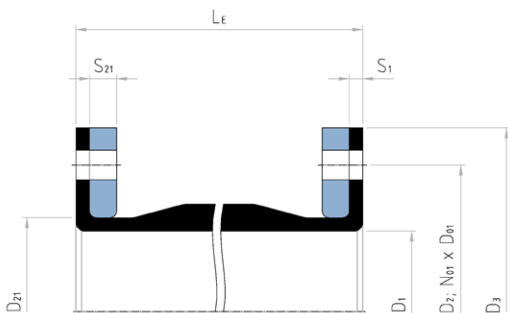
U100A RFP    Ø 80 - 4,000 mm



- > **Type U100A RFP**  
without steel inserts
- > **Type U102A RFP**  
with embedded steel rings
- > **Type U107A RFP**  
with embedded spring-wire helix



Cross section U102A RFP



Rubber flanged pipe

**Design:** Straight rubber pipe connectors are specifically engineered for your particular application, compensate all-directional movements and have a cycle life in the tens of millions. Rubber pipes are constructed with a smooth interior tube of different thickness depending on the later use, specially compounded from an elastomer that satisfies the chemical and abrasion requirements of your application. Multiple layers of high-strength cord, helical spring steel wire or steel rings and a seamless cover are embedded into the pipe wall during the manufacturing process, resulting in a product precisely designed for your pressure and vacuum requirements. In compliance with PED 2014/68/EU, FSA Technical Handbook and ASTM F1123 - 87.

Depending on the pressure and diameter end fittings can come with full face rubber flange or with sealing bulge with a metal core and swivel backing flanges.

Flexible rubber pipes should always be installed in piping systems that are properly anchored. So that the connectors are not required to absorb compression or elongation piping movements. If axial forces can act in the system to compress or elongate the rubber pipe, tie rods will be required to prevent axial movement.

**Application:**  
Paper & pulp plants,  
transportation of mineral ores and slurries,  
sand and gravel plants,  
chemical-petrochemical and industrial process piping systems, steel mills, marine services, sewage treatment plants e.g. pump in- or outlets, dredgers, compressors, cooling towers



Request assembly instructions at:  
[www.ditec-adam.de/en/contact](http://www.ditec-adam.de/en/contact)

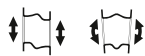
- Diameters:

Ø 80 to 4,000 mm, custom diameters possible
- Length:

Up to 7,000 mm  
Custom length on request
- Pressure:

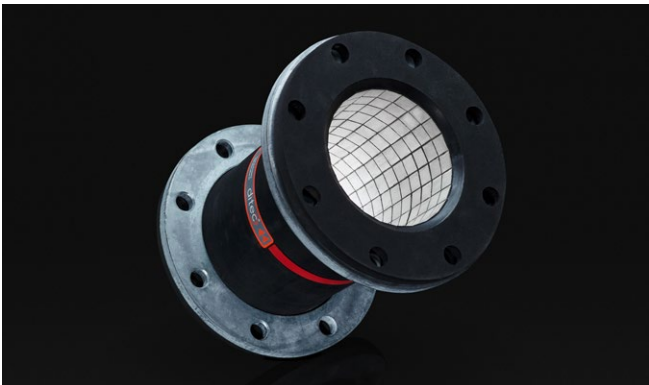
Up to 40 bar depending on diameter and length  
Helical-wound steel reinforcements or individual steel rings embedded in the carcass to provide strength for high pressure operations, to prevent collapse under vacuum and to offer tight bending radiuses without buckling or kinking.
- Movement:

For lateral movements and angular deflection  
Reduction of noise and vibration



Bellows elastomers and reinforcements

Elastomer	Fabric	Marking	°C	Application
EPDM	Polyamid		-40   +100	Cooling water, hot water, seawater, acids, dilute chlorine compounds
EPDM	Aramid		-40   +100	Cooling water, hot water, seawater, acids, dilute chlorine compounds
EPDMht	Aramid		-40   +120	Cooling water, hot water, seawater, acids, dilute chlorine compounds
EPDMwras	Polyamid		-40   +100	Drinking water, foodstuffs
EPDMwras	Aramid		-40   +100	Drinking water, foodstuffs
EPDMbeige	Polyamid		-40   +100	Foodstuffs
EPDMbeige	Aramid		-40   +100	Foodstuffs
IIR	Polyamid		-20   +100	Hot water, acids, bases, gases
IIR	Aramid		-20   +100	Hot water, acids, bases, gases
CSM	Polyamid		-20   +100	Strong acids, bases, chemicals
CSM	Aramid		-20   +100	Strong acids, bases, chemicals
NBR	Polyamid		-30   +100	Oils, petrol, solvents, compressed air
NBR	Aramid		-30   +100	Oils, petrol, solvents, compressed air
NBRbeige	Polyamid		-30   +100	Oil, fatty foods
NBRbeige	Aramid		-30   +100	Oil, fatty foods
CR	Polyamid		-20   +90	Cooling water, slightly oily water, seawater
CR	Aramid		-20   +90	Cooling water, slightly oily water, seawater
FPM	Aramid		-20   +180	Corrosive chemicals, petroleum distillates
FPMbeige	Aramid		-20   +180	Oil, fatty foods
NR	Polyamid		-20   +70	Abrasive materials
Silicon	Aramid Glass		-60   +200	Air, saltwater atmosphere, foodstuffs, medical technology



Rubber pipe with high wear resistant ceramic liner

Backing flanges

- Design:

Single-part, round backing flanges with clearance holes
- Flange norms:

DIN, ANSI, EN, AWWA, BS, JIS, special measurements ( > page 298)
- Materials:

Carbon steel, stainless steel or aluminium
- Coating:

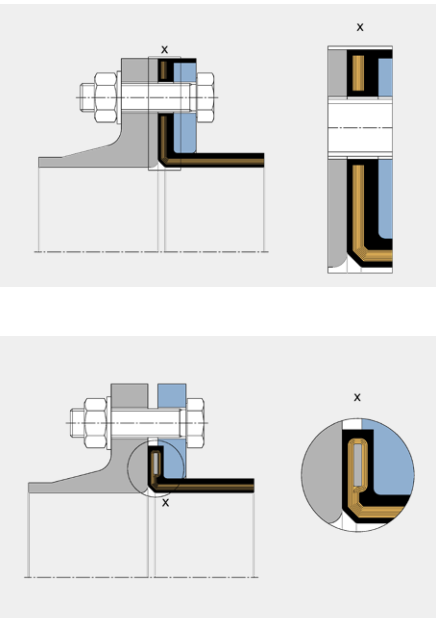
Primed, hot-dip galvanised, special paint

End fitting




- Flanged type:

The most common type of rubber pipe incorporates a full face flange integral with the body of the pipe. The flange is drilled to conform to the bolt pattern of the companion metal flange of the pipeline. This type of rubber faced flange, backed with a steel flange, is of sufficient thickness to form a tight seal against the companion flange without the use of a gasket.
- Swivel flange type:

This design has a sealing bulge which forms a line pressure with the steel core insert and anchors the cord fabrics for very high pressure requirements. It has a solid floating metallic flange, drilled according to the mating pipe flange.

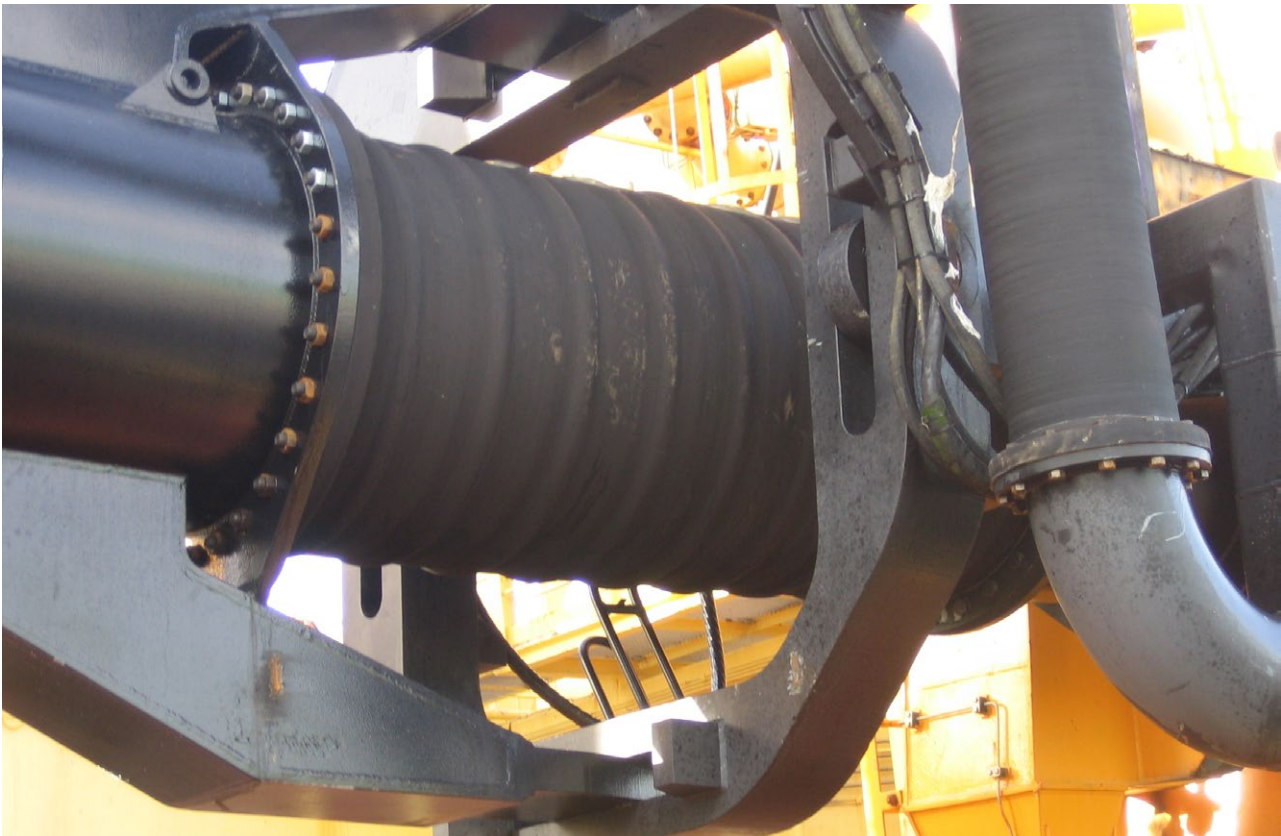


Vacuum / Pressure inserts

TYPE	Support rings	Steel insert
U100A RFP		Without steel reinforcement. Discharge pipe can be used for many different dredging applications, as a connecting hose between a dredger and its discharge line, or a flexible joint between rigid pipe elements.
U102A RFP		Suction & discharge rubber pipe with steel rings, designed for rugged applications, offer a tight bending radius under severe working conditions without buckling or kinking.
U107A RFP		Suction and discharge rubber pipe with spring-wire helix offer a weight saving alternative to rubber pipes with round steel-rings.



Replaced rubber flanged pipe in operation of a paper mill



Rubber flanged pipe with embedded steel rings installed on dredger ship