



TECHNICAL DATASHEET

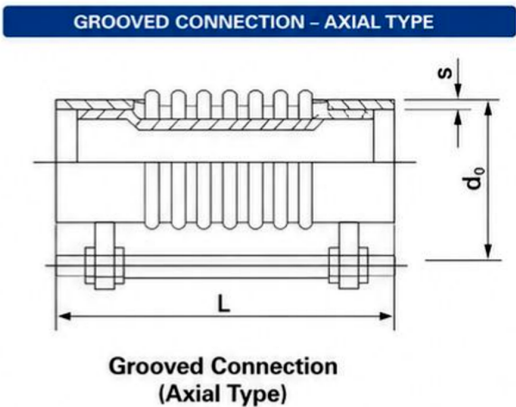
Grooved-End Bellows Expansion Joint

Grooved-end axial bellows for fast installation | Standard supply + fast custom production

Grooved-end bellows configuration



Grooved connection - axial type



Key Supply & Configuration Data

Size Range	DN32-DN350 catalog reference; custom sizes to approved project requirements
Primary Movement	Axial thermal compensation; non-axial allowance depends on selected configuration
Design Pressure	0.25-2.5 MPa catalog reference; final rating confirmed for selected configuration
Design Temperature	-20°C to +400°C catalog reference; final material selection follows service conditions
Connection	Grooved-end connection for compatible grooved coupling systems
Structure	Corrugated metal bellows with grooved ends and external limit rods
Configuration	Wave number, installed length and materials selected to project requirements
Production	Common configurations in stock + fast custom production

Stock & Custom Production

- Common sizes and configurations are kept in stock for immediate shipment.
- Custom production can start the same day after drawing and specification confirmation.
- DN, installed length, groove interface, wave number, materials and axial movement requirements can be manufactured to approved project drawings.



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Grooved-End Selection & Project Data

Key information for size, movement, connection and operating-condition confirmation.

Selection Item	Information to Confirm	Mingchao Supply / Configuration
Nominal Size	DN / NPS	DN32-DN350 catalog reference; custom size to approved drawing
Required Axial Movement	Compression / extension	Bellows wave number and installed length selected to movement requirement
Working / Design Pressure	MPa / bar	0.25-2.5 MPa catalog reference; final rating by configuration
Operating Temperature	Minimum / maximum	-20°C to +400°C catalog reference; material reviewed for service
Medium / Fluid	Water / air / other	Bellows and end materials selected for service conditions
Installed Length L	Required installed length	Standard reference or custom to approved drawing
Grooved-End Interface	Pipe OD / groove / coupling	Manufactured to specified groove standard, dimensions or approved drawing
Bellows Configuration	Wave number / movement	Selected for required axial travel and operating conditions
Limit Rods	Required arrangement	Standard or project-specific external limiting configuration
Drawing & Quantity	Existing drawing / CAD / qty	Fast custom production after specification confirmation

Selection Note

Grooved-end connection defines the pipe interface; allowable pressure, temperature and movement are properties of the complete selected assembly. Final configuration is confirmed against DN, axial travel, medium, material, installed length, groove dimensions and piping arrangement.

Project Configuration

Connection Interface	Groove profile / pipe OD / coupling interface to specified project standard or drawing
Bellows & End Materials	Selected according to pressure, temperature, medium and project specification
Wave Number & Length	Configured to required axial movement and installation envelope
Piping Requirements	Use suitable anchors, guides and support; avoid torsion and forced misalignment
Supply	Stock items for immediate shipment; custom production after drawing confirmation

For Quotation

Please provide DN/NPS, working pressure, operating temperature, medium, required axial movement, installed length, grooved-end standard or dimensions, quantity and drawing if available.

For detailed technical requirements, custom configurations or project questions, please contact us.

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