BARNVALE
DESIGN AND INNOVATION

TECHNICAL SPECIFICATION

Single Axial Compensator for Steel & Copper Pipe Male Screwed Ends



Working Pressure: 10 Bar.

Up to 16 Bar - Dependent on PED conditions.

Test Pressure: 1.5 x Working Pressure.

WRAS APPROVED PRODUCT

This type of compensator is mainly used on perimeter heating and riser systems.
Designed to accept linear expansion on Steel & Copper Systems.

Size	Axial Compression	Installed Length	Force To Compress	Temperature Limit
15nb / 15cu	25	182	19.60 N/mm	100°C
20nb / 22cu	25	182	27.50 N/mm	100°C
25nb / 28cu	30	185	24.50 N/mm	100°C
32nb / 35cu	30	200	42.20 N/mm	100°C
40nb / 42cu	30	215	38.10 N/mm	100°C
50nb / 54cu	30	247	39.20 N/mm	100°C

Material Specifications

Convolutions: 316 Stainless Steel

Internal Sleeves: 316 Stainless Steel

Fittings: 316 Stainless Steel

Details

All units are supplied pre-stressed at installation lengths complete with internal sleeves.

Size	Axial Compression	Installed Length	Force To Compress	Temperature Limit
15nb / 15cu	50	300	3.90 N/mm	120°C
20nb / 22cu	50	300	7.80 N/mm	120°C
25nb / 28cu	50	300	12.70 N/mm	120°C
32nb / 35cu	50	310	17.20 N/mm	120°C
40nb / 42cu	50	320	19.60 N/mm	120°C
50nb / 54cu	50	350	19.60 N/mm	120°C

Material Specifications

Convolutions: 316 Stainless Steel

Internal Sleeves: 304 Stainless Steel

Fittings: 304 Stainless Steel

Details

All units are supplied pre-stressed at installation lengths complete with internal sleeves.

The anchor loads generated by this type of Axial Compensator are high.
A saddle guide with low frictional resistance should be used.

BARNVALE
DESIGN AND INNOVATION

TECHNICAL SPECIFICATION

Single Axial Compensator for Steel Pipe PN16 Flanged Ends



Working Pressure: 16 Bar.

Test Pressure: 1.5 x Working Pressure.

WRAS APPROVED PRODUCT

Designed to accept linear expansion on steel pipe systems.

Size	Axial Compression	Installed Length	Force To Compress	Temperature Limit
32nb / 35cu	30	225	37 N/mm	200°C
40nb / 42cu	30	225	37 N/mm	200°C
50nb / 54cu	50	225	55 N/mm	200°C
65nb / 67cu	50	225	87 N/mm	200°C
80nb / 76cu	50	230	90 N/mm	200°C
100nb / 108cu	50	230	116 N/mm	200°C
125nb / 133cu	60	240	118 N/mm	200°C
150nb / 159cu	60	240	166 N/mm	200°C
200nb	70	275	176 N/mm	200°C

Material Specifications

Convolutions: 316 Stainless Steel

Internal Sleeves: 316 Stainless Steel

Flanges: Carbon Steel PN16

Details

All units are supplied pre-stressed at installation lengths complete with internal sleeves.

Standard product details are shown above. Please contact us for full details as some details can vary dependent on the application.

The anchor loads generated by this type of Axial Compensator are high.
A saddle guide with low frictional resistance should be used.