BARNVALE
DESIGN AND INNOVATION

TECHNICAL SPECIFICATION

Untied Pump Flexible

To Suit Steel Pipe Flanged PN16



Working Pressure: 6 Bar.

Test Pressure: 1.5 x Working Pressure.

Size	Material Type	Installed Length	Temperature Limits
32nb / 35cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
40nb / 42cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
50nb / 54cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
65nb / 67cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
80nb / 76cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
100nb / 108cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
125nb / 133cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
150nb / 159cu	Nylon Reinforced EPDM	130mm	-10 / +90°C

Material Specifications

EPDM rubber body with nylon reinforcement: steel collars are incorporated into all units.

Flanges: BZP Carbon Steel

Details

All units are designed using a highly durable EPDM rubber compound. All flanges fitted are designed specifically for these units and are manufactured from carbon steel which is bright zinc plated.

Pump Flexibles are installed to absorb vibration and reduce noise levels caused by "plant" upon which they are fitted.

These are suitable for use on systems carrying Chilled and Hot Water.

The units have a 10 year design life and are warranted for a period of 12 months from supply.

BARNVALE
DESIGN AND INNOVATION

TECHNICAL SPECIFICATION

Tied Pump Flexible

To Suit Steel Pipe Flanged PN16



Working Pressure: 10 Bar.

Test Pressure: 1.5 x Working Pressure.

Size	Material Type	Installed Length	Temperature Limits
32nb / 35cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
40nb / 42cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
50nb / 54cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
65nb / 67cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
80nb / 76cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
100nb / 108cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
125nb / 133cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
150nb / 159cu	Nylon Reinforced EPDM	130mm	-10 / +90°C
200nb	Nylon Reinforced EPDM	130mm	-10 / +90°C
250nb	Nylon Reinforced EPDM	130mm	-10 / +90°C

Material Specifications

EPDM rubber body with nylon reinforcement: steel collars are incorporated into all units.

Flanges: BZP Carbon Steel

Anti-Tamper Tie Bars: BZP Carbon Steel

Details

The unit is unique due to its anti-tamper tie bars.
All tie bars are fitted to installation lengths, and cannot be changed, thus decreasing the chance of elongation of the unit as a result of the tie bar loosening.

Pump Flexibles are installed to absorb vibration and reduce noise levels caused by "plant" upon which they are fitted.

These are suitable for use on systems carrying Chilled and Hot Water.

The units have a 10 year design life and are warranted for a period of 12 months from supply.

BARNVALE
DESIGN AND INNOVATION

TECHNICAL SPECIFICATION

Stainless Pump Flexible

To Suit Stainless Steel Pipe Flanged PN16



Working Pressure: 16 Bar.

Test Pressure: 1.5 x Working Pressure.

Size	Material Type	Installed Length	Forces To Compress	Temperature Limits
50nb / 54cu	316 Stainless Steel	130	138.70 N/mm	-10 / +200°C
65nb / 67cu	316 Stainless Steel	130	134.40 N/mm	-10 / +200°C
80nb / 76cu	316 Stainless Steel	130	101.00 N/mm	-10 / +200°C
100nb / 108cu	316 Stainless Steel	130	158.10 N/mm	-10 / +200°C
125nb / 133cu	316 Stainless Steel	130	269.30 N/mm	-10 / +200°C
150nb / 159cu	316 Stainless Steel	130	276.10 N/mm	-10 / +200°C
200nb	316 Stainless Steel	200	371.40 N/mm	-10 / +200°C
250nb	316 Stainless Steel	On Request	On Request	-10 / +200°C
300nb	316 Stainless Steel	On Request	On Request	-10 / +200°C

Material Specifications

Connections: 316 Stainless Steel

Convolutions: 316 Stainless Steel

Internal Sleeve: 316 Stainless Steel

Tie Rods: 316 Stainless Steel

Hemispherical Washers: 316 Stainless Steel

Connecting Spool: 316 Stainless Steel

Pump Flexibles are installed to absorb vibration and noise levels caused by "plant" upon which they are fitted.

These are suitable for use on systems carrying Chilled and Hot Water.

All units are supplied at installation lengths and pre stressed.

BARNVALE
DESIGN AND INNOVATION

TECHNICAL SPECIFICATION

Stainless Pump Flexible

To Suit Steel Pipe Flanged PN16



Working Pressure: 16 Bar.

Test Pressure: 1.5 x Working Pressure.

WRAS APPROVED PRODUCT

Size	Material Type	Installed Length	Forces To Compress	Temperature Limits
32nb / 35cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
40nb / 42cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
50nb / 54cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
65nb / 67cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
80nb / 76cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
100nb / 108cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
125nb / 133cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
150nb / 159cu	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
200nb	316 S/Steel To Wet Areas	150	On Request	-10 / +200°C
250nb	316 S/Steel To Wet Areas	On Request	On Request	-10 / +200°C
300nb	316 S/Steel To Wet Areas	On Request	On Request	-10 / +200°C

Material Specifications

Connections: Carbon Steel Drilled
PN16 Van-Stone Facings

Convolutions: 316 Stainless Steel

Internal Sleeve: 316 Stainless Steel

Tie Rods: Carbon Steel

Hemispherical Washers: Carbon Steel

Connecting Spool: 316 Stainless Steel

Pump Flexibles are installed to absorb vibration and noise levels caused by "plant" upon which they are fitted.

These are suitable for use on systems carrying Chilled and Hot Water.

All units are supplied at installation lengths and pre stressed.