VM Flex-200/Siliglas DB

Material built up from inside

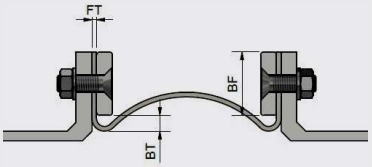
S-01

Flangereinforcement: None

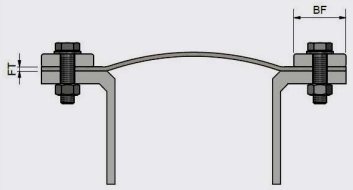
Design Parameters	Units
Body thickness (BT):	2
Flange thickness (FT):	1
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	200
Max. pressure	2000 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

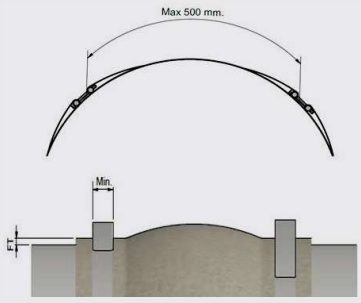
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-200/Silamid Red

Material built up from inside

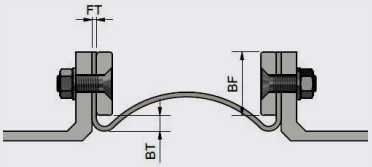
S-10

Flangereinforcement: None

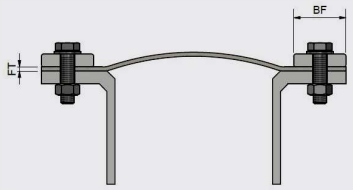
Design Parameters	Units
Body thickness (BT):	5
Flange thickness (FT):	2
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	200
Max. pressure	2000 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

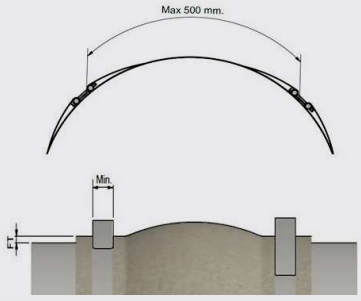
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-200/Silamid Black

Material built up from inside

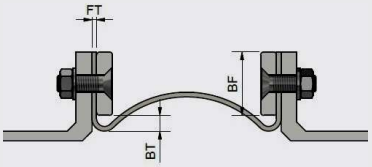
S-16

Flangereinforcement: None

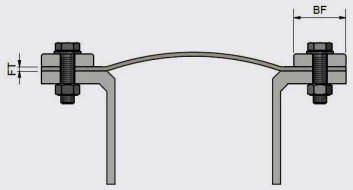
Design Parameters	Units
Body thickness (BT):	5
Flange thickness (FT):	2
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	200
Max. pressure	2000 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

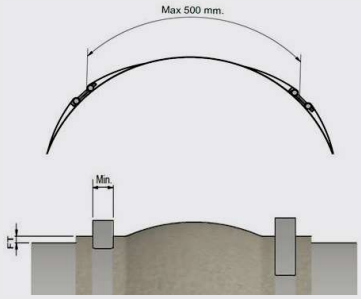
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-200/FKM/glass1160

Material built up from inside

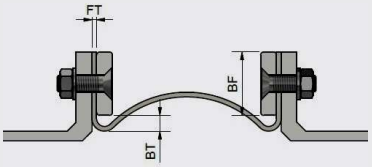
R-10

Flangereinforcement: R-10

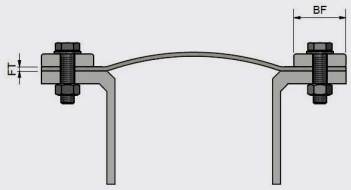
Design Parameters	Units
Body thickness (BT):	2
Flange thickness (FT):	1
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	200
Max. pressure	1500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

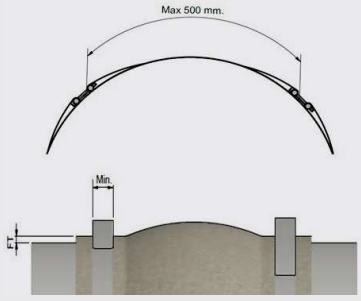
Expansion Rates	Units
Axial compression	40 % of distance between ductflanges
Lateral movements	15 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-200/FKM 2 mm

Material built up from inside

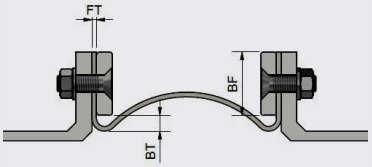
R-28

Flangereinforcement: None

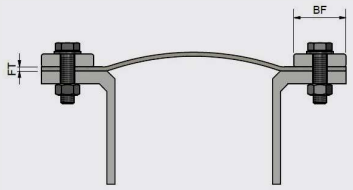
Design Parameters	Units
Body thickness (BT):	5
Flange thickness (FT):	2
Min. backing flange (BF):	40 x 8
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	200
Max. pressure	500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

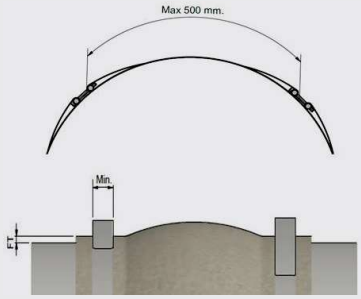
Expansion Rates	Units
Axial compression	40 % of distance between ductflanges
Lateral movements	15 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-180/Glas/Alu

Material built up from inside

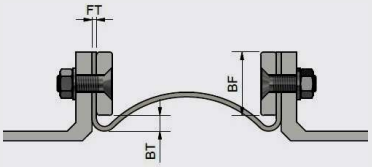
S-11

Flangereinforcement: None

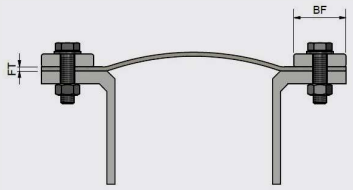
Design Parameters	Units
Body thickness (BT):	2
Flange thickness (FT):	1
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	180
Max. pressure	1500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

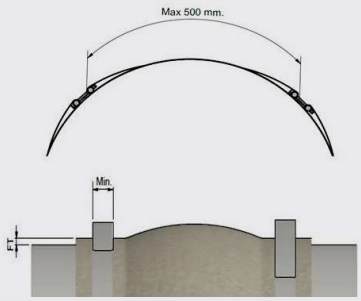
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-150/NPG

Material built up from inside

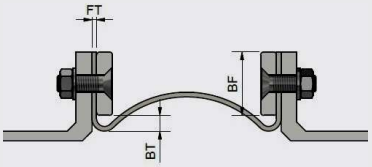
S-05

Flangereinforcement: None

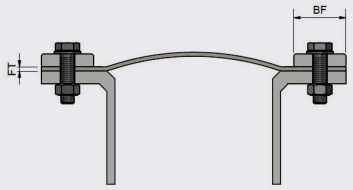
Design Parameters	Units
Body thickness (BT):	2
Flange thickness (FT):	1
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	150
Max. pressure	2000 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

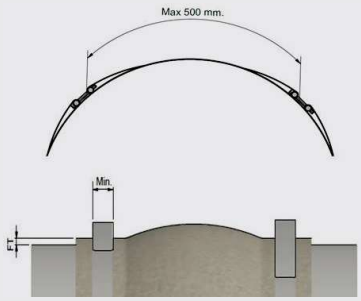
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-100/EPDM 5-70

Material built up from inside

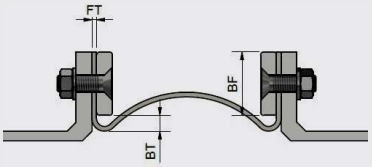
R-02

Flangereinforcement: None

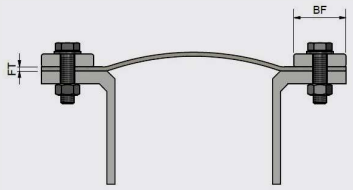
Design Parameters	Units
Body thickness (BT):	15
Flange thickness (FT):	5
Min. backing flange (BF):	40 x 10
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	100
Max. pressure	1000 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

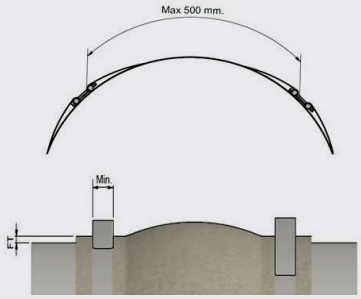
Expansion Rates	Units
Axial compression	35 % of distance between ductflanges
Lateral movements	15 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-100/EPDM 5-70 GF

Material built up from inside

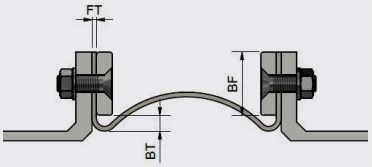
R-04

Flangereinforcement: None

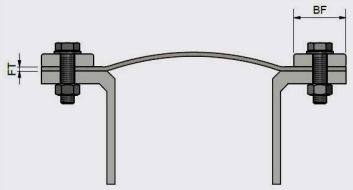
Design Parameters	Units
Body thickness (BT):	15
Flange thickness (FT):	5
Min. backing flange (BF):	40 x 10
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	100
Max. pressure	1500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

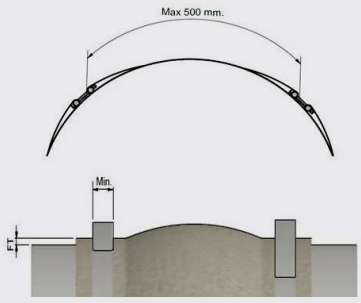
Expansion Rates	Units
Axial compression	30 % of distance between ductflanges
Lateral movements	15 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-100/EPDM 3-70

Material built up from inside

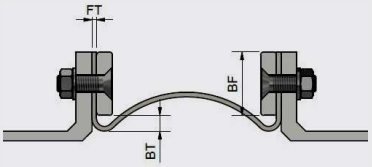
R-01

Flangereinforcement: None

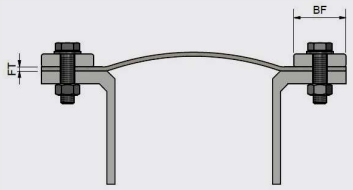
Design Parameters	Units
Body thickness (BT):	5
Flange thickness (FT):	3
Min. backing flange (BF):	40 x 10
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	100
Max. pressure	500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

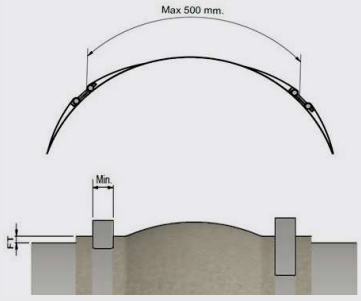
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-100/EPDM 3-50

Material built up from inside

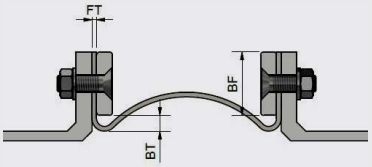
R-03

Flangereinforcement: None

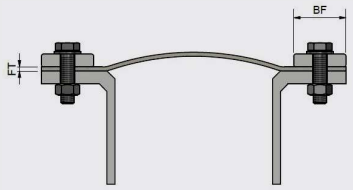
Design Parameters	Units
Body thickness (BT):	5
Flange thickness (FT):	3
Min. backing flange (BF):	40 x 10
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	100
Max. pressure	300 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

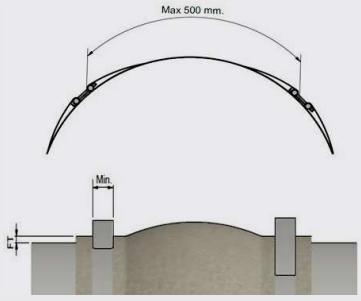
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-100/EPDM 2-50

Material built up from inside

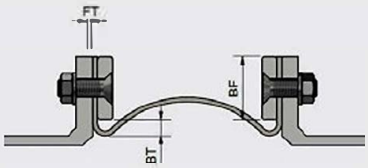
R-05

Flangereinforcement: None

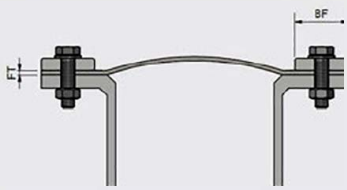
Design Parameters	Units
Body thickness (BT):	4
Flange thickness (FT):	2
Min. backing flange (BF):	40 x 10
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	100
Max. pressure	300 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm³

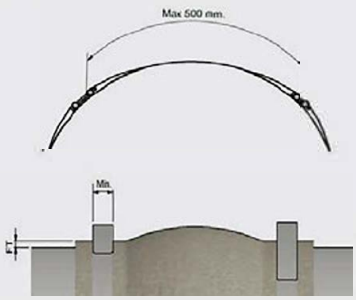
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-90/PUR 1000

Material built up from inside

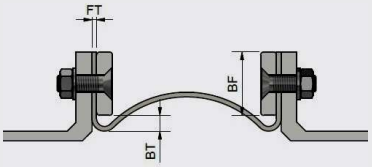
S-15

Flangereinforcement: None

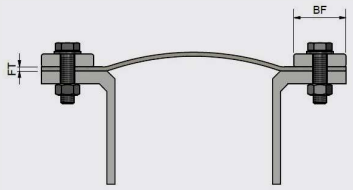
Design Parameters	Units
Body thickness (BT):	2
Flange thickness (FT):	1
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	90
Max. pressure	600 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

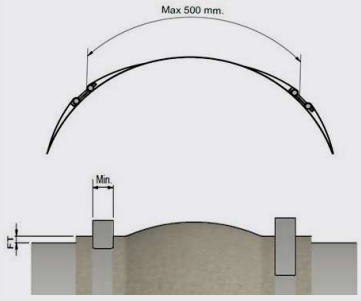
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-90/PUR 500

Material built up from inside

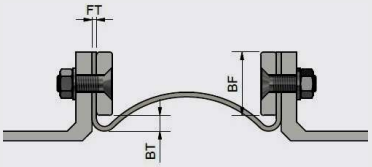
S-14

Flangereinforcement: None

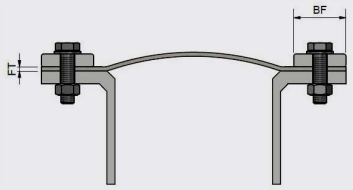
Design Parameters	Units
Body thickness (BT):	1
Flange thickness (FT):	0,5
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	90
Max. pressure	300 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

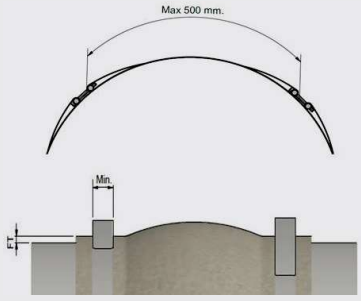
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-90/Nitril 5-65

Material built up from inside

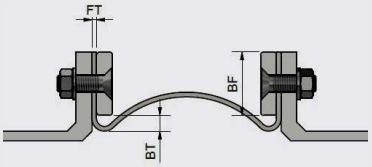
R-12

Flangereinforcement: None

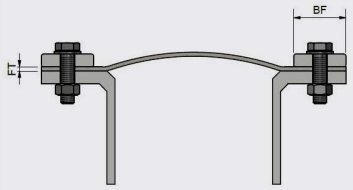
Design Parameters	Units
Body thickness (BT):	15
Flange thickness (FT):	5
Min. backing flange (BF):	40 x 10
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	90
Max. pressure	1000 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

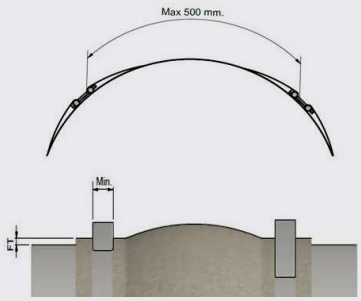
Expansion Rates	Units
Axial compression	35 % of distance between ductflanges
Lateral movements	15 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-90/Nitril 3-65

Material built up from inside

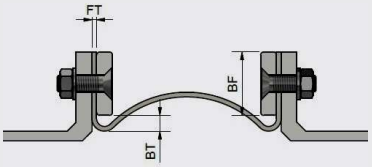
R-11

Flangereinforcement: None

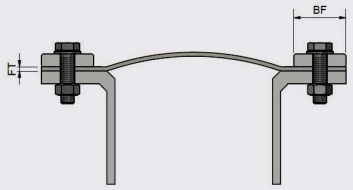
Design Parameters	Units
Body thickness (BT):	5
Flange thickness (FT):	3
Min. backing flange (BF):	40 x 10
↳ Min. bolt size:	M12
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	90
Max. pressure	500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	15 m/s
Max. dustcontent without sleeve	15 mg/Nm^3

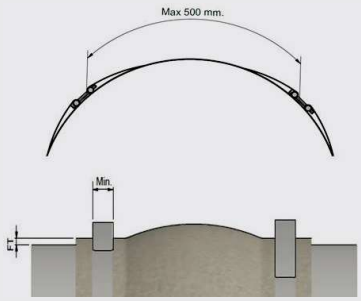
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-70/PPE17

Material built up from inside

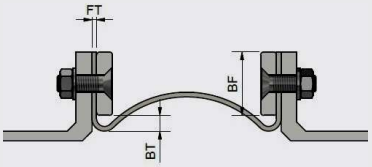
S-13

Flangereinforcement: None

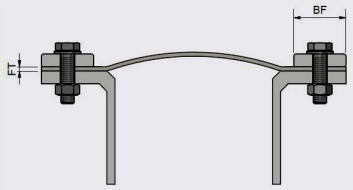
Design Parameters	Units
Body thickness (BT):	2
Flange thickness (FT):	1,5
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	70
Max. pressure	2500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

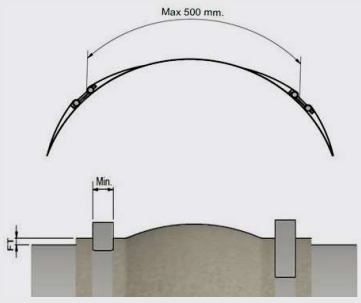
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-70/PPE7

Material built up from inside

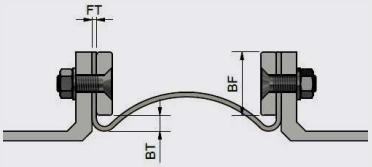
S-12

Flangereinforcement: None

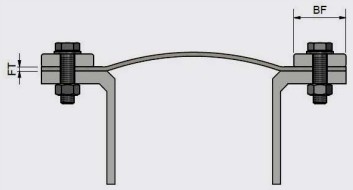
Design Parameters	Units
Body thickness (BT):	2
Flange thickness (FT):	1
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	70
Max. pressure	1500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

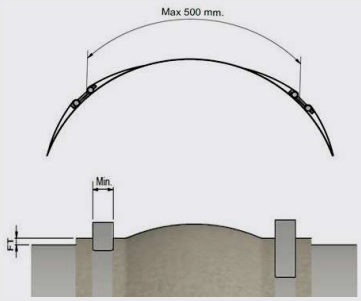
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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VM Flex-40/Oxsil

Material built up from inside

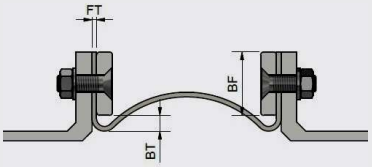
S-07

Flangereinforcement: None

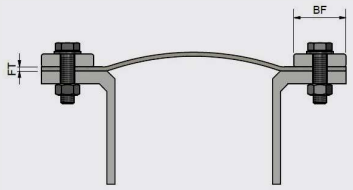
Design Parameters	Units
Body thickness (BT):	5
Flange thickness (FT):	2
Min. backing flange (BF):	30 x 8
↳ Min. bolt size:	M10
Min. width of clamping band:	20
Max. length between clamping points:	500 mm.

Operation Parameters	Units
Medium	Clean air
Dry/wet	Dry
Max. temperature °C	40
Max. pressure	500 mm. WG
FFH design max. temperature °C	N.a.
Max. velocity without sleeve	10 m/s
Max. dustcontent without sleeve	10 mg/Nm^3

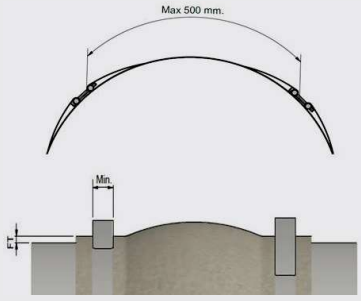
Expansion Rates	Units
Axial compression	50 % of distance between ductflanges
Lateral movements	20 % of distance between ductflanges
Required material compression to absorb the lateral movements	200 %
Installation tolerance based on designed installation length	
↳ Axial +/-	10 mm.
↳ Lateral +/-	5 mm.



Vertical flange



Flat flange for bolting



Flat flange for Clamp. Bands

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