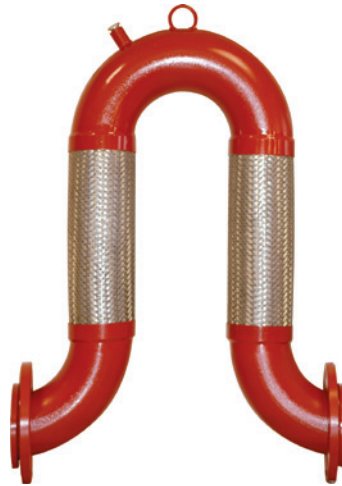
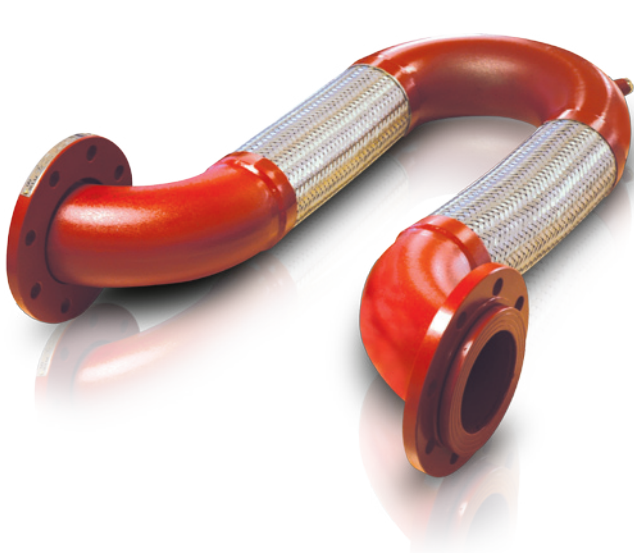


Omegaflex - U-Flex & V-Flex Seismic Connections



Features

Ayvaz U-Flex and V-Flex assemblies provide highly flexible and reliable connection features for fire protection lines, seismic security areas, dilatation points and industrial applications. These assemblies are used to absorb the movements caused by the potential break downs and depressions especially where the seismic movements may cause hazardous results.

Ayvaz U-Flex and V-Flex assemblies that are manufactured with FM certificate prevent the structural deformations such as cracks and break downs of rigid connections by the required flexibility they provide and offer easy, safe and reliable installation features for the users.

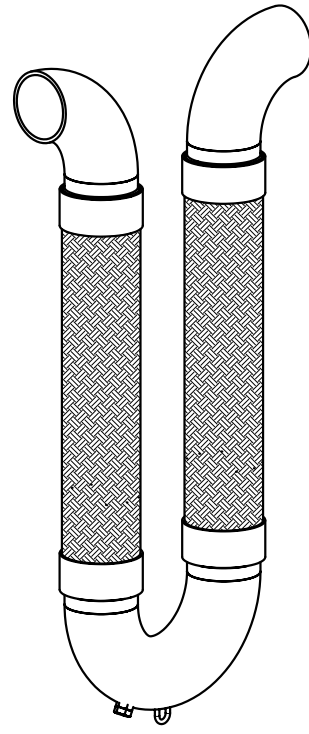
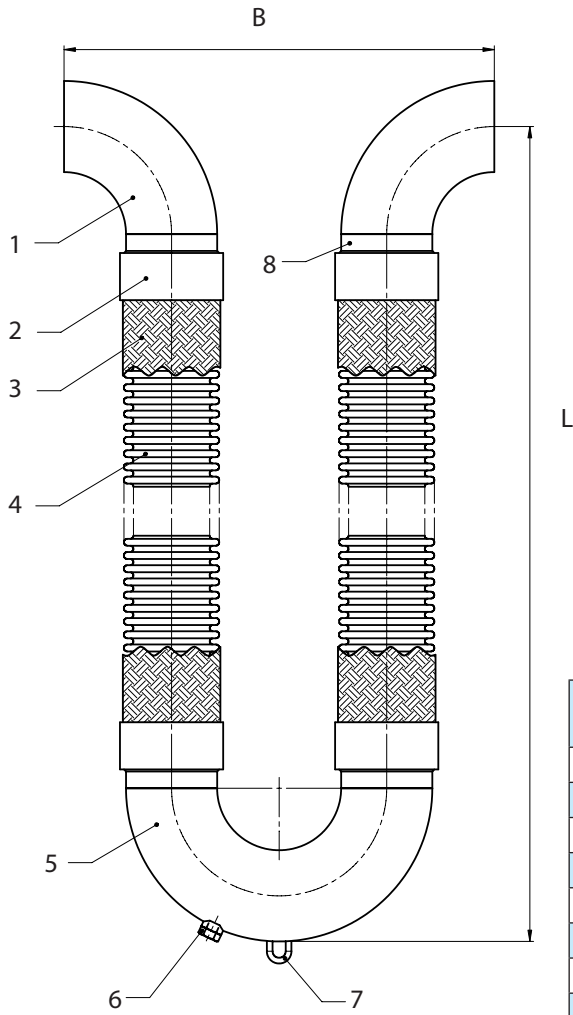
Design

Ayvaz U-Flex and V-Flex assemblies are consisted of the parallel corrugated metal hose with braiding and Carbon Steel connection and direction parts likewise turns and elbows at various angles. Flexible metal hose provides high movement capacity in all directions to the assemblies and the braiding increases the pressure resistance accordingly.

Product Features

Hose Type	Parallel corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Braiding Material	Stainless Steel AISI 304
Fittings Types	Flanged, Welded End, Grooved
Fittings Materials	Carbon Steel 37.2
Elbow Material	Carbon Steel 37.2
Flange Material	Carbon Steel 37.2

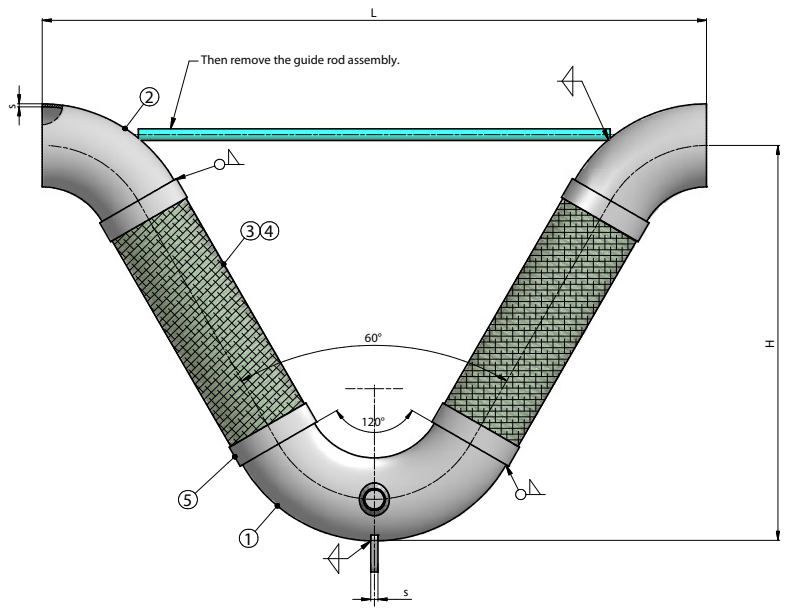
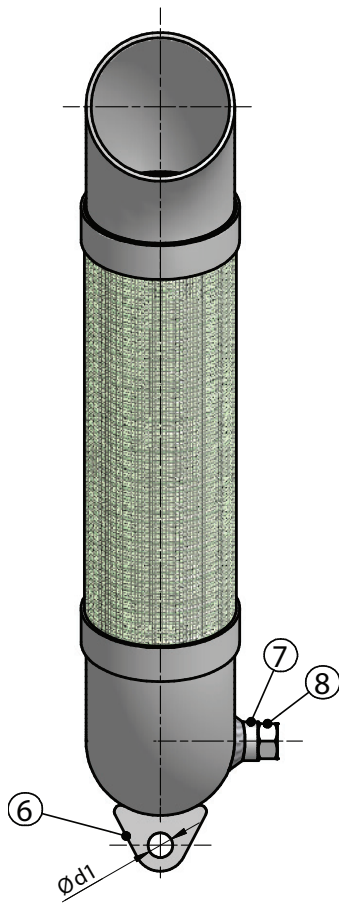
U-Flex Seismic Connections



Part Number	Quantity	Part Name	Material
8	4	Extention Part	Carbon Steel
7	1	Support Clip	Carbon Steel
6	1	Drain Plug	Carbon Steel
5	1	180° Turn	Carbon Steel
4	2	Hose	Stainless Steel AISI 316 L
3	2	Braiding	Stainless Steel AISI 304
2	4	Braid Band	Stainless Steel AISI 304
1	2	90° Elbow	Carbon Steel

Pipe Diameter	Movement Amount (mm)	Product Code	B (mm)	L (mm)
1/2"-DN15	± 37,5	702.080.301.010	150	325
	± 100	702.080.301.015	225	425
3/4"-DN20	± 37,5	702.080.301.020	131,25	325
	± 100	702.080.301.025	231,25	450
1"-DN25	± 37,5	702.080.301.030	150	375
	± 100	702.080.301.035	250	500
1 1/4"-DN32	± 37,5	702.080.301.040	187,5	400
	± 100	702.080.301.045	268,75	525
1 1/2"-DN40	± 37,5	702.080.301.050	225	425
	± 100	702.080.301.055	287,5	575
2"-DN50	± 37,5	702.080.301.060	300	475
	± 100	702.080.301.095	350	625
2 1/2"-DN65	± 37,5	702.080.301.090	375	525
	± 100	702.080.301.085	375	700
3"-DN80	± 37,5	702.080.301.080	450	575
	± 100	702.080.301.075	450	750
4"-DN100	± 37,5	702.080.301.070	600	700
	± 100	702.080.301.065	600	875

V-Flex Seismic Connections

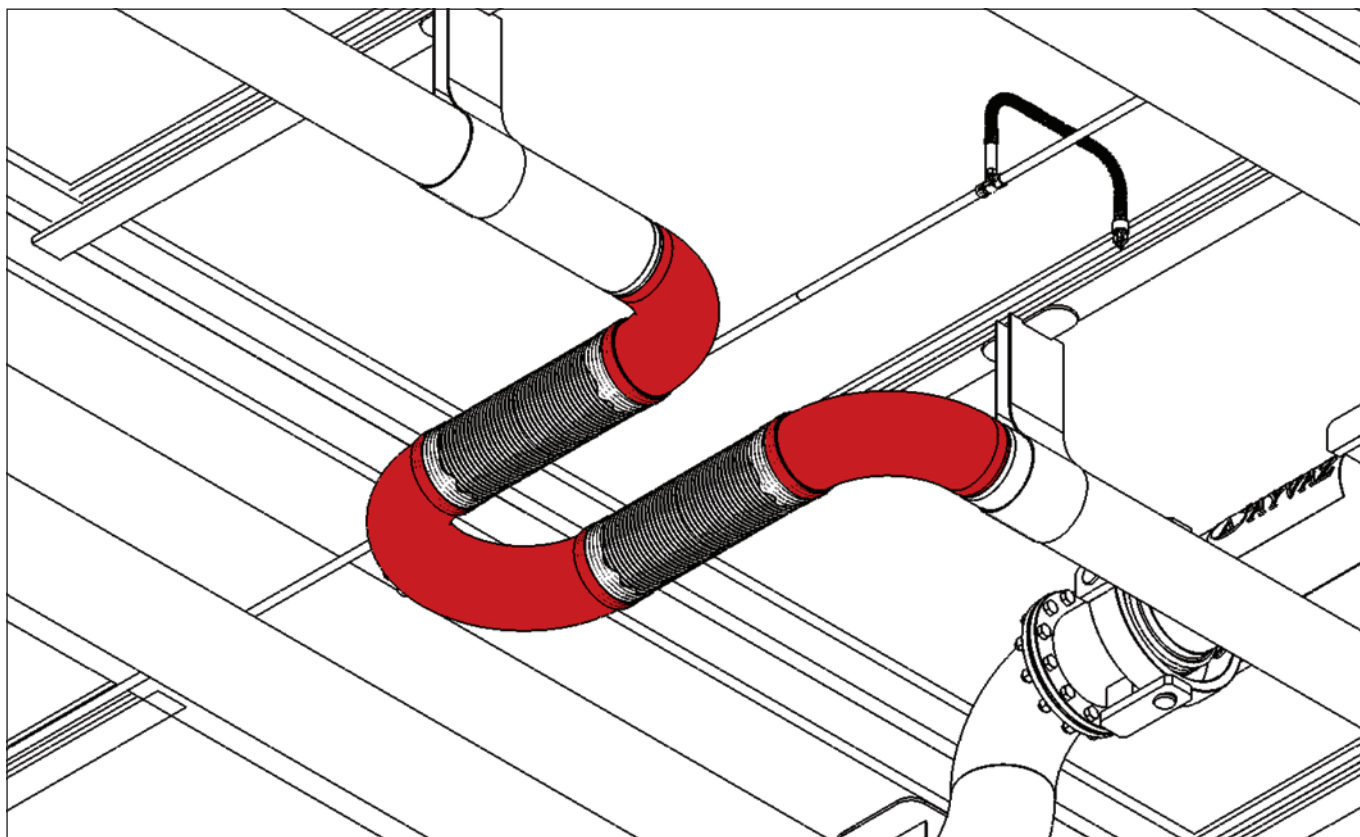


Part Number	Quantity	Part Name	Material
8	1	Drain Plug	Carbon Steel
7	1	Manchon	Carbon Steel
6	1	Support Clip	Carbon Steel
5	1	Braid Band	Stainless Steel AISI 304
4	1	Braiding	Stainless Steel AISI 304
3	1	Hose	Stainless Steel AISI 316L
2	2	60° Elbow	Carbon Steel
1	1	120° Elbow	Carbon Steel

Pipe Diameter	Movement Amount	Ødi	s	Ød1	L	H
	X-Y-Z					
DN 40	(+/- 50mm)	48,3	2,6	13	505	330
DN 50	(+/- 50mm)	60,3	2,9	13	515	350
DN 65	(+/- 50mm)	76,1	2,9	16	620	415
DN 80	(+/- 50mm)	88,9	3,2	16	720	470
DN 100	(+/- 50mm)	114,3	3,6	19	880	545
DN 125	(+/- 50mm)	139,7	4	19	1070	650
DN 150	(+/- 50mm)	168,3	4,5	22	1255	750
DN 200	(+/- 50mm)	219,1	6,3	22	1520	850

*Please contact our sales team for customized sizes and product codes.

Ayvaz Omegaflex Installation Instructions



1. Ayvaz u-flex fire protection hose can be connected to pipeline with welding ends, flanges or grooved connection mounts through rigid or flexible couplings.

2. U-flex can be installed in any position with maximum efficiency.

3. For the u-flex assemblies smaller than 2" (dn50), no support is required.

4. For the u-flex assemblies bigger than 2" (dn50). If the assembly is hanged down vertically, no support is required. For other type of connections, supporting operation may be done in two different ways.

• For the +/- 4" (100mm) movement of the u-flex assembly. A hanger rod which is 12" (300mm) or greater will allow the loop to swing properly in order to maintain the security of the assembly.

• In case that the u-flex is forced to be installed with hanging rod that is shorter than recommended distance above, it is suggested to use a spring hanger. Spring type of hangers may provide the required flexibility to the assembly during seismic motions.

5. U-flex assemblies are supplied with spreader bars to prevent misalignments during installation. This bar should be removed after installation.

6. U-flex assembly must be cleared 4" (100mm) from all around the assembly.

7. If the u-flex assembly can't meet the building's seismic separation, it is suggested to install it with the closest elbow less than 24" (600mm) from seismic separation.

8. If the u-flex assembly is to be installed in vertically upright position (180° elbow, over the pipeline), the entrapped air should be removed.