



Kalyse®
KALİTE FARK YARATIR



OMEGA LOOP
U FLEX & V FLEX
DİLATASYON KOMPANSATÖRLERİ



Certificate of Compliance

This certificate is issued for the following:

PIPE FITTINGS FOR ABOVEGROUND FIRE PROTECTION SYSTEMS

**MODEL OMEGA FLEX EXPANSION JOINTS
U-FLEX AND V-FLEX TYPE**

IN SIZES: 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8 INCH NPS

Prepared for:

**KAYSE ENDUSTRIYEL MAMULLER SAN. TIC. A.Ş
ORHANLI ORTA MAH. AKTEPE SANAYI SITESI. NO. 12 / B
TUZLA, ISTANBUL, TURKEY**

FM Approvals Class: 1920

Approval Identification: 3045917 Date Approved: October 23, 2012

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

For more than 160 years FM Approvals has partnered with business and industry to reduce property losses.

A handwritten signature in dark ink, appearing to read 'Richard B. Dunne', written over a horizontal line.

Richard B. Dunne
Group Manager – Fire Protection Group
FM Approvals
1151 Boston-Providence Turnpike
Norwood, Massachusetts 02062 USA



Member of the FM Global Group

U FLEX OMEGA TİP KOMPANSATÖR

U FLEX EXPANSION LOOP



TEKNİK BİLGİLER / TECHNICAL DETAILS

U-Flex hortumlar sismik hareketlerin yoğun olabileceği deprem bölgelerinde zeminden gelebilecek beklenmedik rastgele dinamik yükleri sönmölemek, hattaki stresi almak ve sistemin sorunsuz şekilde çalışmasını sağlamak amacıyla kullanılan ara bağlantı parçalarıdır. Bina ile birlikte 6 olası yönde hareket ederek kazan, chiller, fancoil üniteleri ve yangın sprinkler sistemlerini koruyarak hattın sürekli kesintisiz çalışmasını sağlar.

DN25" – DN200" çaplarında FM APPROVED belgesine sahip KAYSE OMEGA TİP U flex dilatasyon bağlantı hortumları hattaki kırılma, çatlama ve çökmeleri ortadan kaldırır, deprem veya bina çökmelerinde yangın, su ve gaz hattının sürekliliğini sağlar.

U-Flex Hoses are intermediary connection components that are used to absorb the unexpected random dynamic loads that may originate from the ground in earthquake regions and they are also used remove the stress on the line while ensuring that the system by moving in six possible directions together with the building and as such they ensure that the line is continuously operational without any interruptions.

Kayse Omega Type U-Flex dilatation expansion joints DN25" - DN200" which have FM Approved certificate remove to breaking, cracking and collapsing on the line also earthquake and building crashes ensures the continuity of fire, water and gas line.

AVANTAJLAR / ADVANTAGES

Esnek ve her yöne hareketlidir,
Montajı kolay ve daha kısa sürelidir,
Termal hareketleri alır.

They are flexible and capable of moving in every directions,
Their assembly is easy and can be handled in a shorter period of time,
Absorbs also the thermal movements.

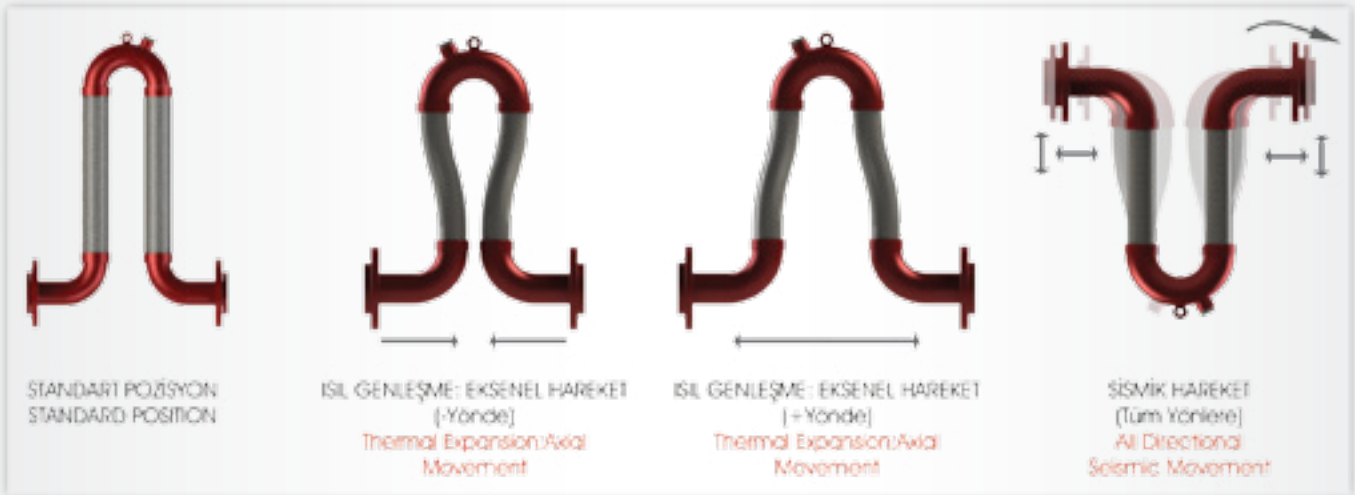
DİZAYN BASINCI	(DESIGN PRESSURE)	: 16 kg/cm ²
SICAKLIK	(TEMPERATURE)	: -90 °C +550 °C
BAĞLANTI TİPLERİ	(CONNECTION TYPES)	: Flanşlı, Dişli, Kaynak Boyunlu, Yivli
BAĞLANTI ÇAPLARI	(CONNECTION SIZES)	: DN25 (1") - ... - DN200 (8")
ONAYLAR	(APPROVALS)	: FM APPROVED

HAREKET TİPLERİ

MOVEMENT TYPES

Deprem esnasında hareketin tam olarak nerden geleceğini kestirmek mümkün değildir. Temelleri farklı iki binanın dilatasyon noktasında aşağıdaki gibi ekstenel açılma, birbirine paralel hareket, öne doğru yıkılma veya bir bina sabit diğerinde hareketlenme görülebilir. Dünyada yaygın olarak kullanılan OMEGA uygulaması ile tüm hareketler kontrol altına alınır ve sistemin devamlılığı sağlanır.

During an earthquake it would not be possible to predict the direction of the movement with certainty therefore it would be possible to observe axial distancing, parallel movement, frontal collapse at dilatation points of two buildings with different foundations, as shown below. With the OMEGA application that is widely used in the world, all the movements can be taken under control and the continuity of the system can be ensured.



UYGULAMA ÖRNEKLERİ

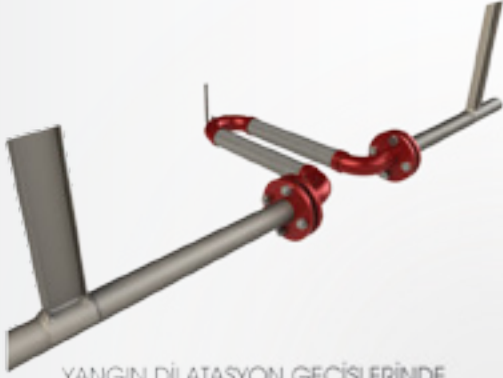
EXAMPLE OF APPLICATIONS



KÖŞE DÖNÜŞLERİNDE / WITH CORNER



DEPO GİRİŞLERİNDE / STORAGE TANKS

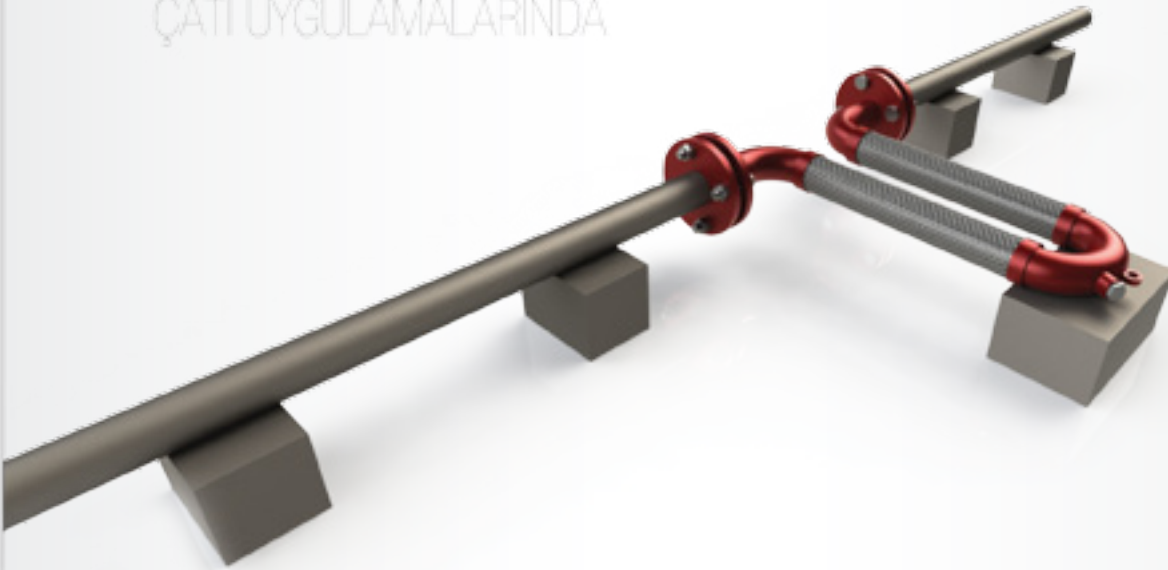


YANGIN DİLATASYON GEÇİŞLERİNDE
/ FIRE DILATATION TRASITION



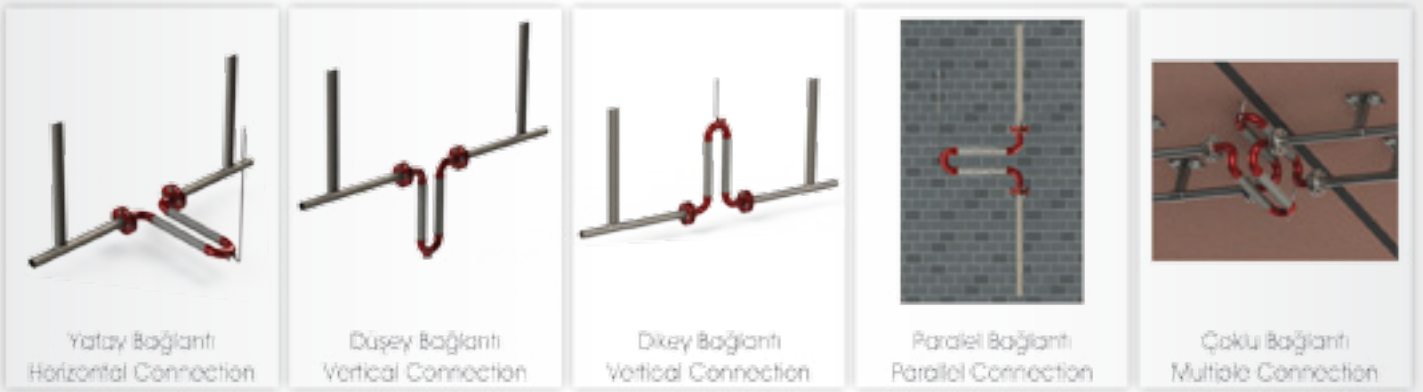
ÇOKLU BAĞLANTI UYGULAMALARINDA
/ MULTIPLE CONNECTION

ROOF TOP PIPING ÇATI UYGULAMALARINDA



MONTAJ ÖRNEKLERİ

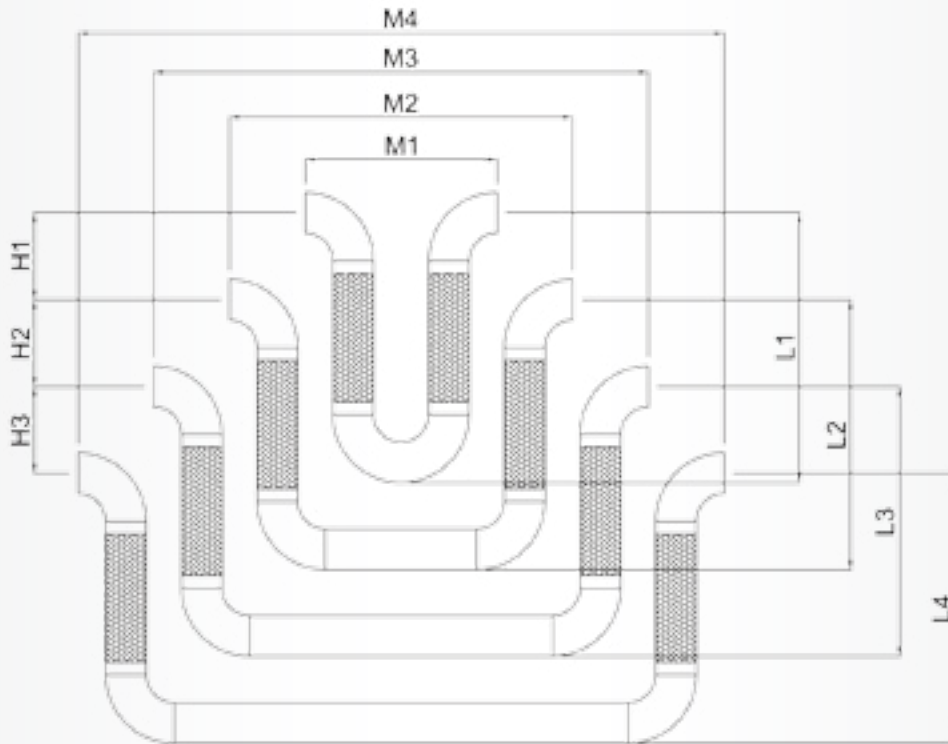
EXAMPLE OF ASSEMBLY



ÇOKLU OMEGA UYGULAMALARI / MULTIPLE OMEGA U FLEX APPLICATION

Omega tip U flexler flanşlı, dişli, yivli ve kaynak boyunlu olarak montaj yapılabilir. Birden çok boru uygulamasının olduğu tesisatlarda L, M, H mesafeleri siparişten önce belirlenmeli; x, y, z hareketleri, sistemdeki basınç ve sıcaklık değerleri mutlaka bildirilmelidir.

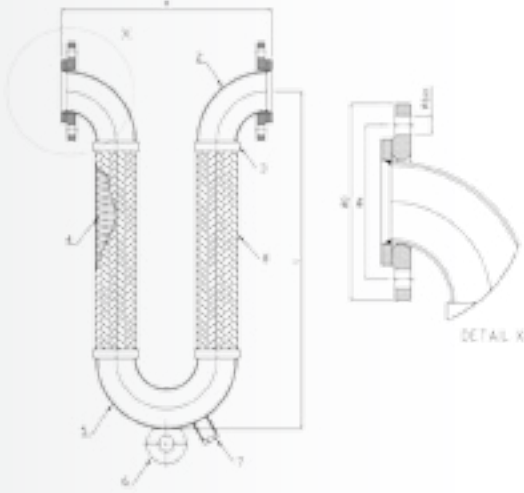
Omega Type U-Flex can be mounting by flange, thread, cut grooved, welded on the multiple installations application L, M, H distances are determined before ordering notify values of x, y, z movement system pressure and temperature.



U Flex	Boru Çapı (Pipe Size)	Hareket / Movement			Max Sıcaklık Max Temperature	Max Basınç Max Pressure	Ölçüler / Dimensions		
		x	y	z			M (mm)	L (mm)	H (mm)
							M1	L1	H1
							M2	L2	H2
							M3	L3	H3
							M4	L4	

U FLEX FLANŞLI

U FLEX WITH FLANGE



Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	TS EN 1092 - 1 Flanş Flange (PN16) / ANSI-JIS Op.	ST37-2 / AISI 304-316 Op.
2	90° Dirsek Elbow 90°	ST37-2 / AISI 304-316 Op.
3	Bant Band	AISI 304 / AISI 316-321 Op.
4	Metal Hortum Metal Hose	AISI 304 / AISI 316-321 Op.
5	180° Dirsek Elbow 180°	ST37-2 / AISI 304-316 Op.
6	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
7	Tahliye Tapası Drain Plug	GG25 / AISI 304-316 Op.
8	Örgü Braiding	AISI 304 / AISI 316-321 Op.

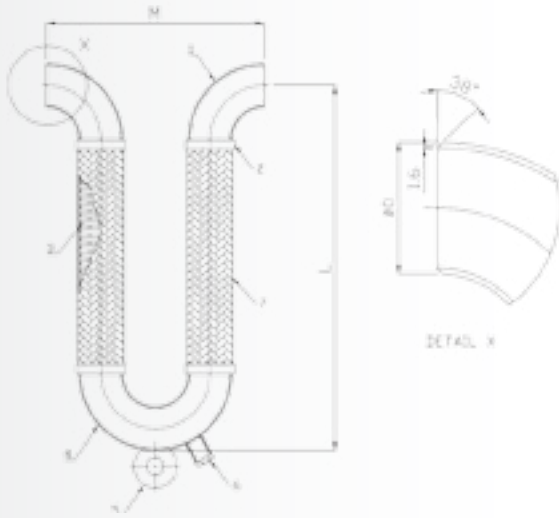
(Op.) = Opsiyonel Optional

Ölçüler Dimensions	Genleşmeler Expansions (x,y,z ±50mm)					Genleşmeler Expansions (x,y,z ±100mm)				
	M (mm)	L (mm)	Ø D (mm)	Ø k (mm)	Ø dxn (mm)	M (mm)	L (mm)	Ø D (mm)	Ø k (mm)	Ø dxn (mm)
DN 25	254	375	115	85	14x4	314	500	115	85	14x4
DN 32	302	400	140	100	18x4	352	525	140	100	18x4
DN 40	340	425	150	110	18x4	390	575	150	110	18x4
DN 50	426	475	165	125	18x4	426	625	165	125	18x4
DN 65	522	525	185	145	18x8	522	700	185	145	18x8
DN 80	610	575	200	160	18x8	602	750	200	160	18x8
DN 100	792	700	220	180	18x8	792	875	220	180	18x8
DN 125	954	800	250	210	18x8	954	1000	250	210	18x8
DN 150	1106	925	285	240	22x8	1106	1150	285	240	22x8
DN 200	1432	1200	340	295	22x12	1432	1450	340	295	22x12

x, y ve z genişmeleri toplam (+/-) değerleridir. x, y and z expansions are total (+/-) values.
Flanşlar TS EN 1092-1 Normundadır. Flanges are TS EN 1092-1 norm.

U FLEX KAYNAK BOYUNLU

U FLEX WITH WELDED NECK



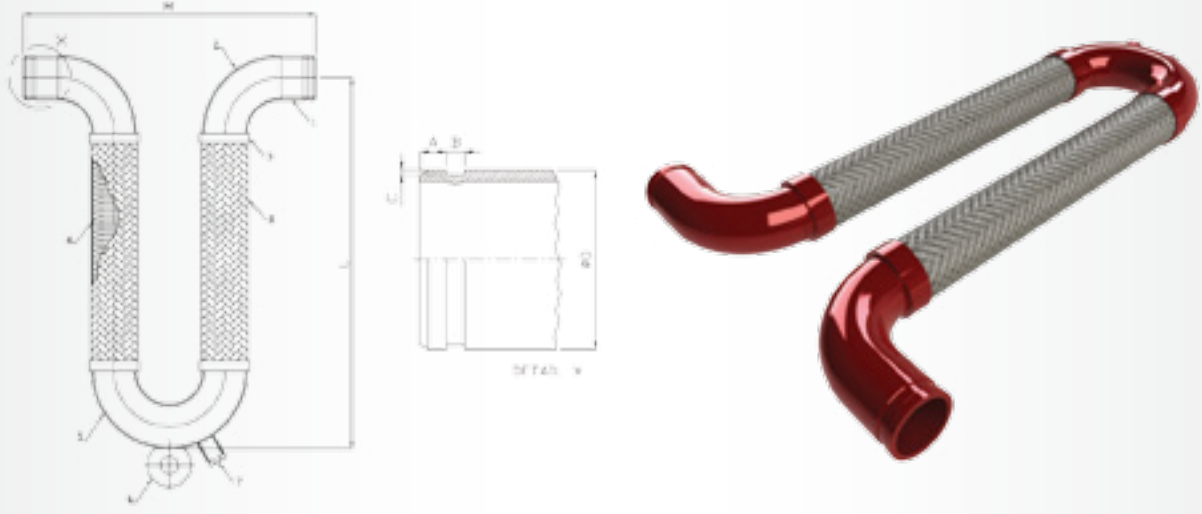
Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	90° Dirsek Elbow 90°	ST37-2 / AISI 304-316 Op.
2	Bant Band	AISI 304 / AISI 316-321 Op.
3	Metal Hortum Metal Hose	AISI 304 / AISI 316-321 Op.
4	180° Dirsek Elbow 180°	ST37-2 / AISI 304-316 Op.
5	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
6	Tahliye Tapası Drain Plug	GG25 / AISI 304-316 Op.
7	Örgü Braiding	AISI 304 / AISI 316-321 Op.

(Op.) = Opsiyonel Optional

Çap Size	Genleşmeler Expansions (x,y,z ±50mm)			Genleşmeler Expansions (x,y,z ±100mm)		
	Ø D (mm)	M (mm)	L (mm)	Ø D (mm)	M (mm)	L (mm)
DN 25	33,7	152	375	33,7	212	500
DN 32	42,4	190	400	42,4	240	525
DN 40	48,3	228	425	48,3	278	575
DN 50	60,3	304	475	60,3	304	625
DN 65	76,1	380	525	76,1	384	700
DN 80	88,9	458	575	88,9	458	750
DN 100	114,3	610	700	114,3	610	875
DN 125	139,7	762	800	139,7	762	1000
DN 150	168,3	914	925	168,3	914	1150
DN 200	219,1	1220	1200	219,1	1220	1450

U FLEX YİVLİ

U FLEX WITH GROOVE



Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	Yivli Parça Grooved Part	ST37-2 / AISI 304-316 Op.
2	90° Dirsek Elbow 90°	ST37-2 / AISI 304-316 Op.
3	Bant Band	AISI 304 / AISI 316-321 Op.
4	Metal Hortum Metal Hose	AISI 304 / AISI 316-321 Op.
5	180° Dirsek Elbow 180°	ST37-2 / AISI 304-316 Op.
6	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
7	Tahliye Tapası Drain Plug	ST37-2 / AISI 304-316 Op.
8	Örgü Braiding	AISI 304 / AISI 316-321 Op.

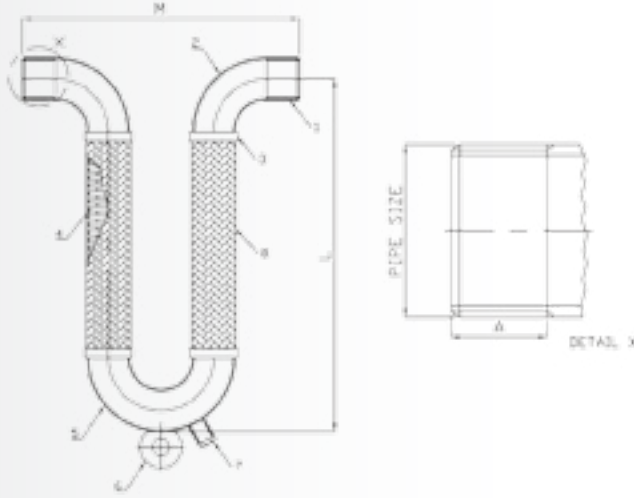
(Op.) = Opsiyonel Optional

Ölçüler Dimensions	Genleşmeler Expansions (x,y,z ±50mm)						Genleşmeler Expansions (x,y,z ±100mm)					
	M (mm)	L (mm)	Ø D (mm)	A (mm)	B (mm)	C (mm)	M (mm)	L (mm)	Ø D (mm)	A (mm)	B (mm)	C (mm)
DN 25	242	375	33,7	15,88	7,14	1,60	302	500	33,7	15,88	7,14	1,60
DN 32	290	400	42,4	15,88	7,14	1,60	340	525	42,4	15,88	7,14	1,60
DN 40	328	425	48,3	15,88	7,14	1,60	378	575	48,3	15,88	7,14	1,60
DN 50	414	475	60,3	15,88	8,74	1,60	414	625	60,3	15,88	8,74	1,60
DN 65	510	525	76,1	15,88	8,74	1,98	510	700	76,1	15,88	8,74	1,98
DN 80	598	575	88,9	15,88	8,74	1,98	598	750	88,9	15,88	8,74	1,98
DN 100	780	700	114,3	15,88	8,74	2,11	780	875	114,3	15,88	8,74	2,11
DN 125	942	800	139,7	15,88	8,74	2,11	942	1000	139,7	15,88	8,74	2,11
DN 150	1094	925	168,3	15,88	8,74	2,16	1084	1150	168,3	15,88	8,74	2,16
DN 200	1420	1200	219,1	19,05	11,91	2,34	1420	1450	219,1	19,05	11,91	2,34

Yiv ölçüleri Roll Grow'dur.

U FLEX DİŞLİ

U FLEX WITH THREAD



Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	Dişli Parçası Threaded Part	ST37-2 / AISI 304-316 Op.
2	90° Dirsek Elbow 90°	ST37-2 / AISI 304-316 Op.
3	Bant Band	AISI 304 / AISI 316-321 Op.
4	Metal Hortum Metal Hose	AISI 304 / AISI 316-321 Op.
5	180° Dirsek Elbow 180°	ST37-2 / AISI 304-316 Op.
6	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
7	Tahliye Tapası Drain Plug	GG25 / AISI 304-316 Op.
8	Örgü Braiding	AISI 304 / AISI 316-321 Op.

(Op.) = Opsiyonel *Optional*

Çap Size	Genleşmeler Expansions (x,y,z ±50mm)			Genleşmeler Expansions (x,y,z ±100mm)		
	A (mm)	M (mm)	L (mm)	A (mm)	M (mm)	L (mm)
DN 25	22	242	375	22	302	500
DN 32	25	290	400	25	340	525
DN 40	25	328	425	25	378	575
DN 50	25	414	475	25	414	625
DN 65	30	510	525	30	510	700
DN 80	30	598	575	30	598	750
DN 100	35	780	700	35	780	875
DN 125	40	942	800	40	942	1000
DN 150	45	1094	925	45	1094	1150
DN 200	50	1420	1200	50	1420	1450

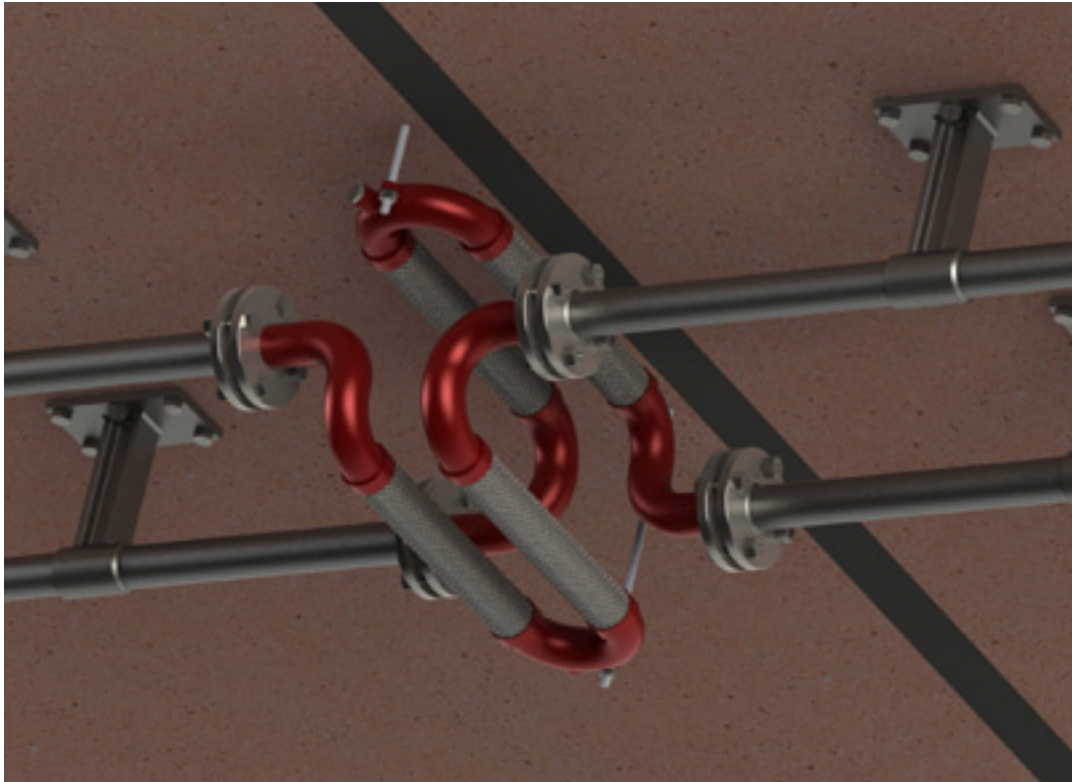
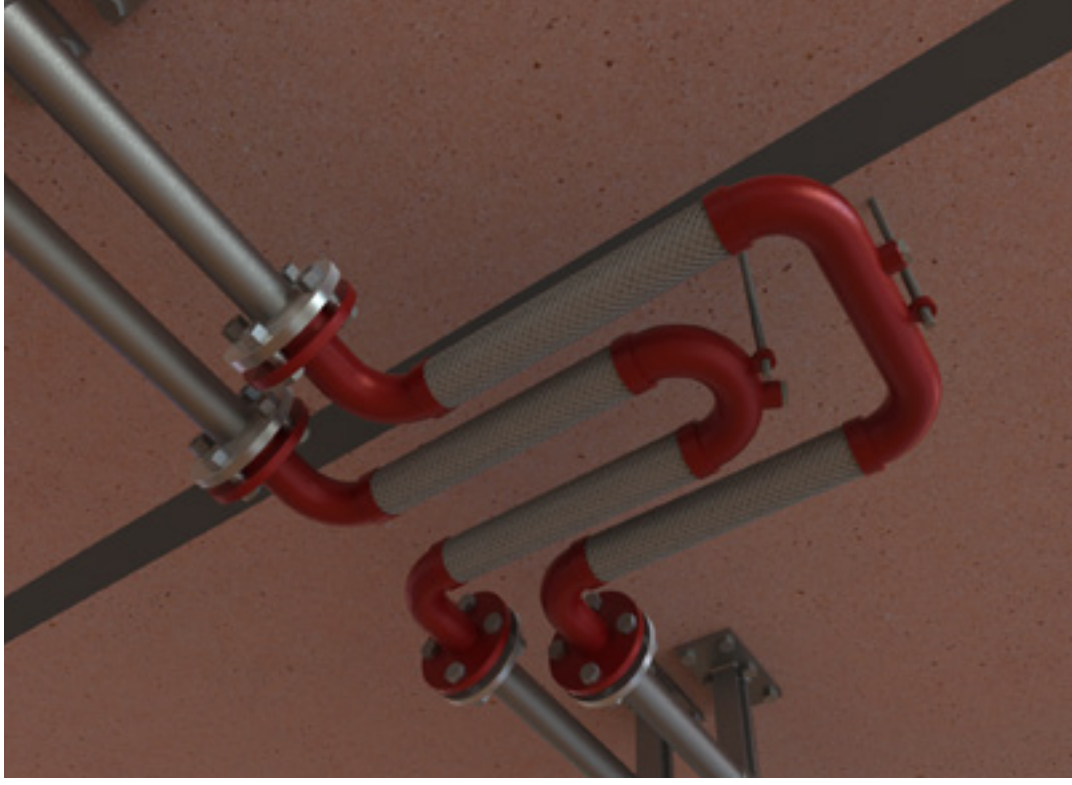
Diş standartı DIN 2982-BSPT/NPT.

MONTAJ DETAYLARI

MONTAGE DETAILS

U Flex sismik kompensatörler bina geçiş noktasının (dilasyon noktası) altına konulmalıdır. Her iki tarafı kaynaklı bağlantı ile sabitlenmeli, sabit noktalar boru çapının 4 katı kadar bir mesafeye konulmalıdır.

U - Flex seismic expansion joints must be placed under the building transition point (dilatation point). Both side must be fixed with welded conneciton, fixed points should be placed at a distance of 4 times the diameter of the pipe.





APPROVED

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U-FLEX AND V-FLEX TYPE**

IN SIZES: 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8 INCH NPS

Prepared for:

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V FLEX OMEGA TİP KOMPANSATÖRLER

V FLEX EXPANSION LOOP



TEKNİK BİLGİLER TECHNICAL INFORMATIONS

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AVANTAJLAR ADVANTAGES

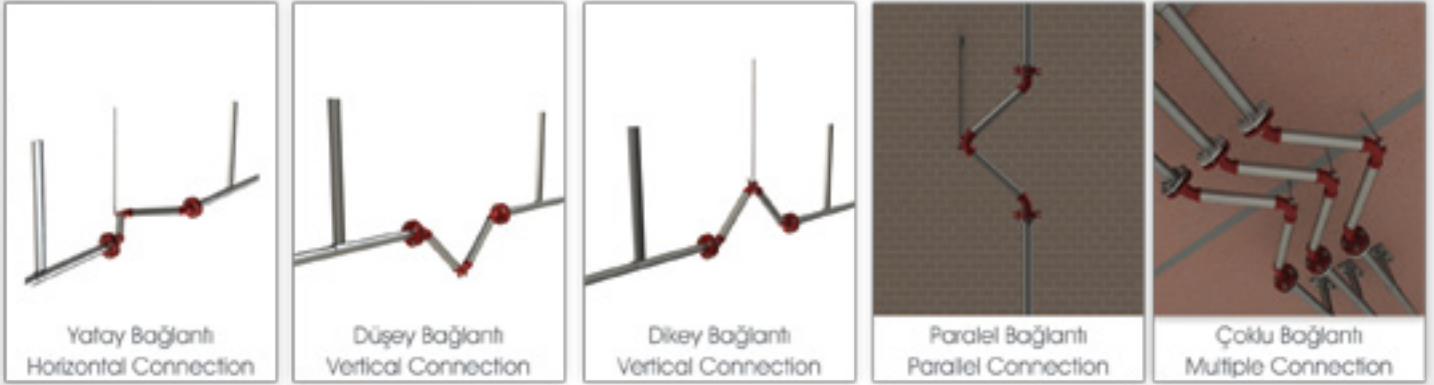
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BAĞLANTI ÇAPLARI	(CONNECTION SIZES)	: DN25 (1") - ... - DN200 (8")
ONAYLAR	(APPROVALS)	: FM APPROVED

MONTAJ ÖRNEKLERİ

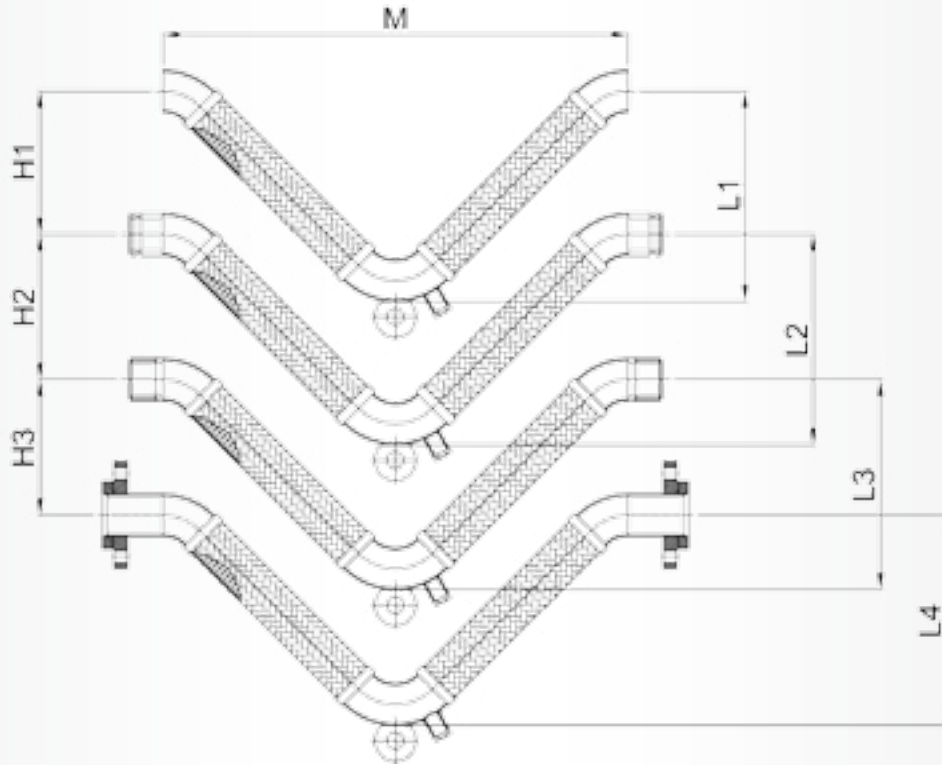
EXAMPLE OF ASSEMBLY



BAĞLANTI TIPLERİ CONNECTION TYPES

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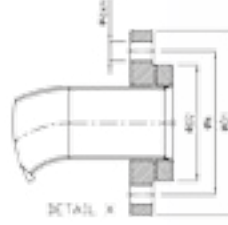
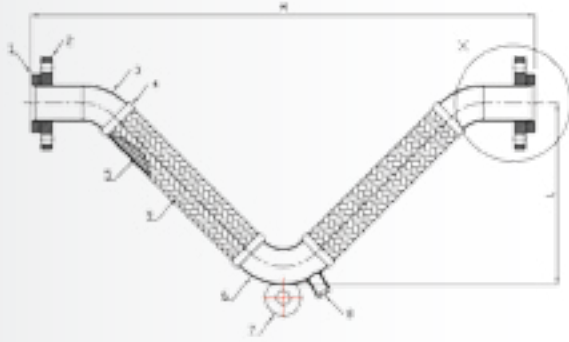
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U Flex	Boru Çapı (Pipe Size)	Hareket / Movement			Max Sıcaklık Max Temperature	Max Basınç Max Pressure	Ölçüler / Dimensions		
		x	y	z			M (mm)	L(mm)	H(mm)
							M1	L1	H1
							M2	L2	H2
							M3	L3	H3
							M4	L4	

V FLEX FLANŞLI

V FLEX WITH FLANGE



Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	Yaka Collar	ST37-2 / AISI 304-316 Op.
2	TS EN 1092 - 1 Flanş Flange (PN16) / ANSI-JIS Op.	ST37-2 / AISI 304-316 Op.
3	45° Dirsek 45° Elbow	ST37-2 / AISI 304-316 Op.
4	Bant Band	AISI 304 / AISI 316-321 Op.
5	Metal Hortum Metal Hose	AISI 304 / AISI 316-321 Op.
6	90° Dirsek 90° Elbow	ST37-2 / AISI 304-316 Op.
7	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
8	Tahliye Tapası Drain Plug	GG25 / AISI 304-316 Op.
9	Örgü Braiding	AISI 304 / AISI 316-321 Op.

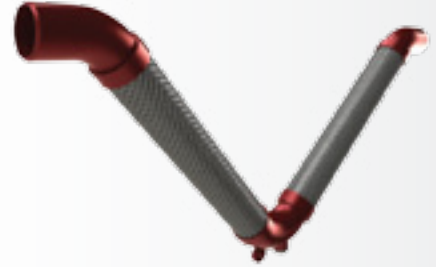
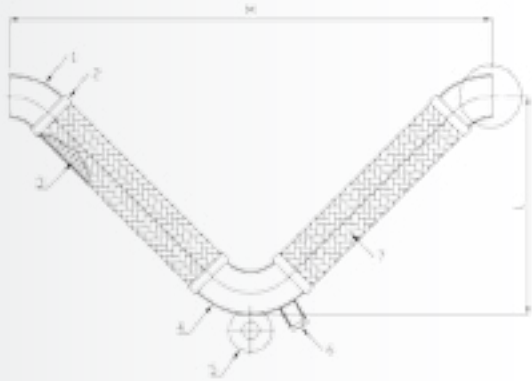
(Op.) = Opsiyonel Optional

Ölçüler Dimensions	Genleşmeler Expansions (x,y,z ±50mm)					Genleşmeler Expansions (x,y,z ±100mm)				
	M (mm)	L (mm)	Ø D (mm)	Ø k (mm)	Ø dxn (mm)	M (mm)	L (mm)	Ø D (mm)	Ø k (mm)	Ø dxn (mm)
DN 25	609	239	115	85	14x4	761	315	115	85	14x4
DN 32	676	264	140	100	18x4	854	353	140	100	18x4
DN 40	800	321	150	110	18x4	966	404	150	110	18x4
DN 50	868	344	165	125	18x4	1097	455	165	125	18x4
DN 65	1044	410	185	145	18x8	1283	530	185	145	18x8
DN 80	1262	505	200	160	18x8	1428	588	200	160	18x8
DN 100	1392	536	220	180	18x8	1570	625	220	180	18x8
DN 125	1695	663	250	210	18x8	1733	682	250	210	18x8
DN 150	1894	746	285	240	22x8	2022	810	285	240	22x8
DN 200	2168	835	340	295	22x12	2358	930	340	295	22x12

x, y ve z genleşmeleri toplam (+/-) değerleridir. x, y and z expansions are total (+/-) values.
Flanşlar TS EN 1092-1 Normundadır. Flanges are TS EN 1092-1 norm.

V FLEX KAYNAK BOYUNLU

V FLEX WITH WELDED NECK



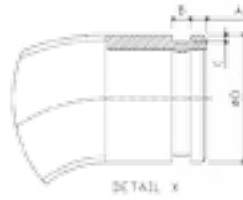
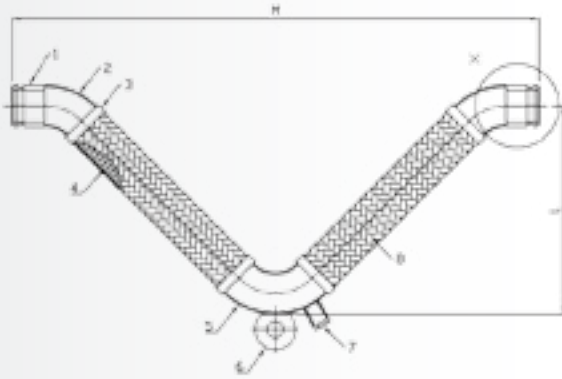
Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	Kaynak Boyun Welded Neck	ST37-2 / AISI 304-316 Op.
2	45° Dirsek 45° Elbow	ST37-2 / AISI 304-316 Op.
3	Bant Band	AISI 304 / AISI 316-321 Op.
4	Metal Hortum Metal Hose	AISI 304 / AISI 316-321 Op.
5	90° Dirsek 90° Elbow	ST37-2 / AISI 304-316 Op.
6	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
7	Tahliye Tapası Drain Plug	GG25 / AISI 304-316 Op.
8	Örgü Braiding	AISI 304 / AISI 316 -321 Op.

(Op.) = Opsiyonel Optional

Çap Size	Genleşmeler Expansions (x,y,z ±50mm)			Genleşmeler Expansions (x,y,z ±100mm)		
	Ø D (mm)	M (mm)	L (mm)	Ø D (mm)	M (mm)	L (mm)
DN 25	33,7	507	239	33,7	659	315
DN 32	42,4	564	264	42,4	742	353
DN 40	48,3	689	321	48,3	854	404
DN 50	60,3	746	340	60,3	975	455
DN 65	76,1	902	410	76,1	1141	530
DN 80	88,9	1110	505	88,9	1277	588
DN 100	114,3	1210	536	114,3	1388	625
DN 125	139,7	1503	663	139,7	1541	682
DN 150	168,3	1702	746	168,3	1830	810
DN 200	219,1	1956	835	219,1	2146	930

V FLEX YİVLİ

V FLEX WITH GROOVED



Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	Yivli Parça Grooved Part	ST37-2 / AISI 304-316 Op.
2	45° Dirsek 45° Elbow	ST37-2 / AISI 304-316 Op.
3	Bant Band	AISI 304 / AISI 316 - 321 Op.
4	Metal Hortum Metal Hose	AISI 304 / AISI 316 - 321 Op.
5	90° Dirsek 90° Elbow	ST37-2 / AISI 304-316 Op.
6	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
7	Tahliye Tapası Drain Plug	GG25 / AISI 304-316 Op.
8	Örgü Braiding	AISI 304 / AISI 316 - 321 Op.

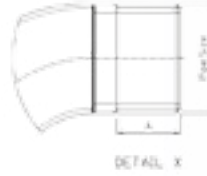
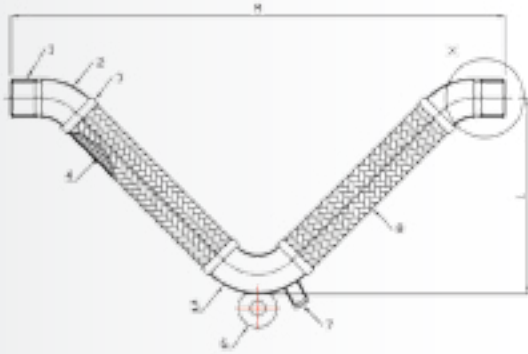
(Op.) = Opsiyonel Optional

Ölçüler Dimensions	Genleşmeler Expansions (x,y,z ±50mm)						Genleşmeler Expansions (x,y,z ±100mm)					
	M (mm)	L (mm)	Ø D (mm)	A (mm)	B (mm)	C (mm)	M (mm)	L (mm)	Ø D (mm)	A (mm)	B (mm)	C (mm)
DN 25	597	239	33,7	15,88	7,14	1,60	749	315	33,7	15,88	7,14	1,60
DN 32	664	264	42,4	15,88	7,14	1,60	842	353	42,4	15,88	7,14	1,60
DN 40	789	321	48,3	15,88	7,14	1,60	954	404	48,3	15,88	7,14	1,60
DN 50	856	340	60,3	15,88	8,74	1,60	1085	455	60,3	15,88	8,74	1,60
DN 65	1032	410	76,1	15,88	8,74	1,98	1271	530	76,1	15,88	8,74	1,98
DN 80	1250	505	88,9	15,88	8,74	1,98	1416	588	88,9	15,88	8,74	1,98
DN 100	1380	536	114,3	15,88	8,74	2,11	1558	625	114,3	15,88	8,74	2,11
DN 125	1683	663	139,7	15,88	8,74	2,11	1721	682	139,7	15,88	8,74	2,11
DN 150	1882	746	168,3	15,88	8,74	2,16	2010	819	168,3	15,88	8,74	2,16
DN 200	2156	835	219,1	19,05	11,91	2,34	2346	930	219,1	19,05	11,91	2,34

Yiv ölçüleri Roll Grow'dur.

V FLEX DİŞLİ

V FLEX WITH THREAD



Parça No Part Number	Özellikler Properties	
	Parça Adı Part Name	Malzeme Material
1	Dişli Parçası Threaded Part	ST37-2 / AISI 304-316 Op.
2	45° Dirsek 45° Elbow	ST37-2 / AISI 304-316 Op.
3	Bant Band	AISI 304 / AISI 316 - 321 Op.
4	Metal Hortum Metal Hose	AISI 304 / AISI 316 - 321 Op.
5	90° Dirsek 90° Elbow	ST37-2 / AISI 304-316 Op.
6	Sabitleme Parçası Fixing Part	ST37-2 / AISI 304-316 Op.
7	Tahliye Tapası Drain Plug	GG25 / AISI 304-316 Op.
8	Örgü Braiding	AISI 304 / AISI 316 - 321 Op.

(Op.) = Opsiyonel *Optional*

Çap Size	Genleşmeler Expansions (x,y,z ±50mm)			Genleşmeler Expansions (x,y,z ±100mm)		
	M (mm)	L (mm)	A (mm)	M (mm)	L (mm)	A (mm)
DN 25	597	239	22	749	315	22
DN 32	664	264	25	842	353	25
DN 40	789	321	25	954	404	25
DN 50	856	340	25	1085	455	25
DN 65	1032	410	30	1271	530	30
DN 80	1250	505	30	1416	588	30
DN 100	1380	536	35	1558	625	35
DN 125	1683	663	40	1721	682	40
DN 150	1882	746	45	2010	819	45
DN 200	2156	835	50	2346	930	50

Diş standartı DIN 2982-BSPT/NPT.

MONTAJ DETAYLARI

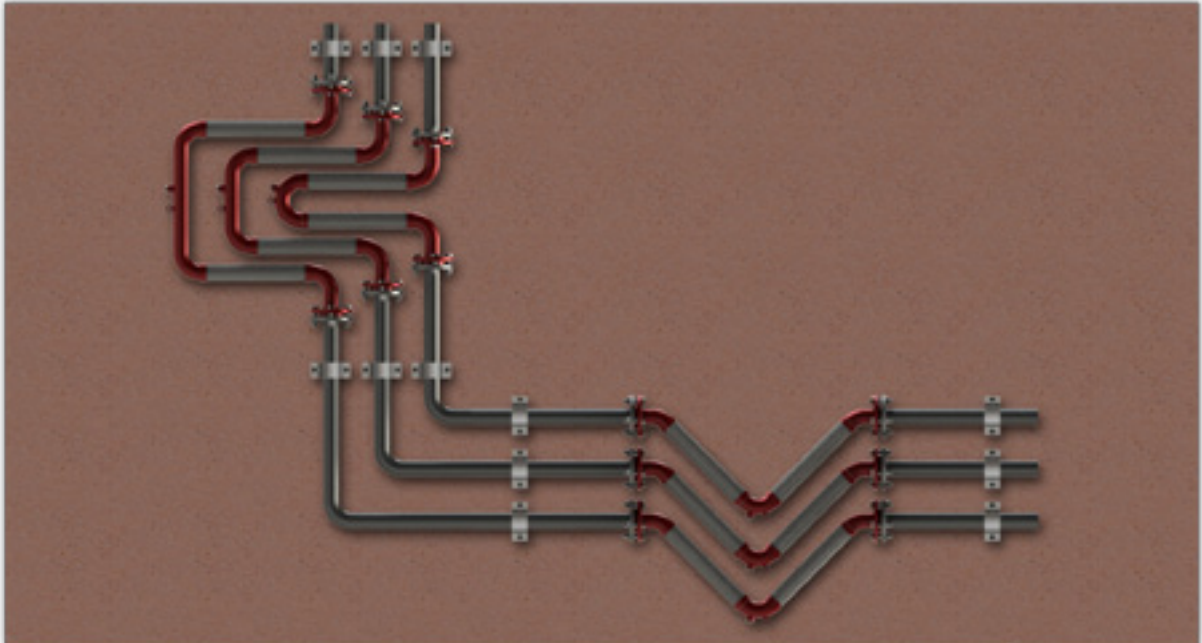
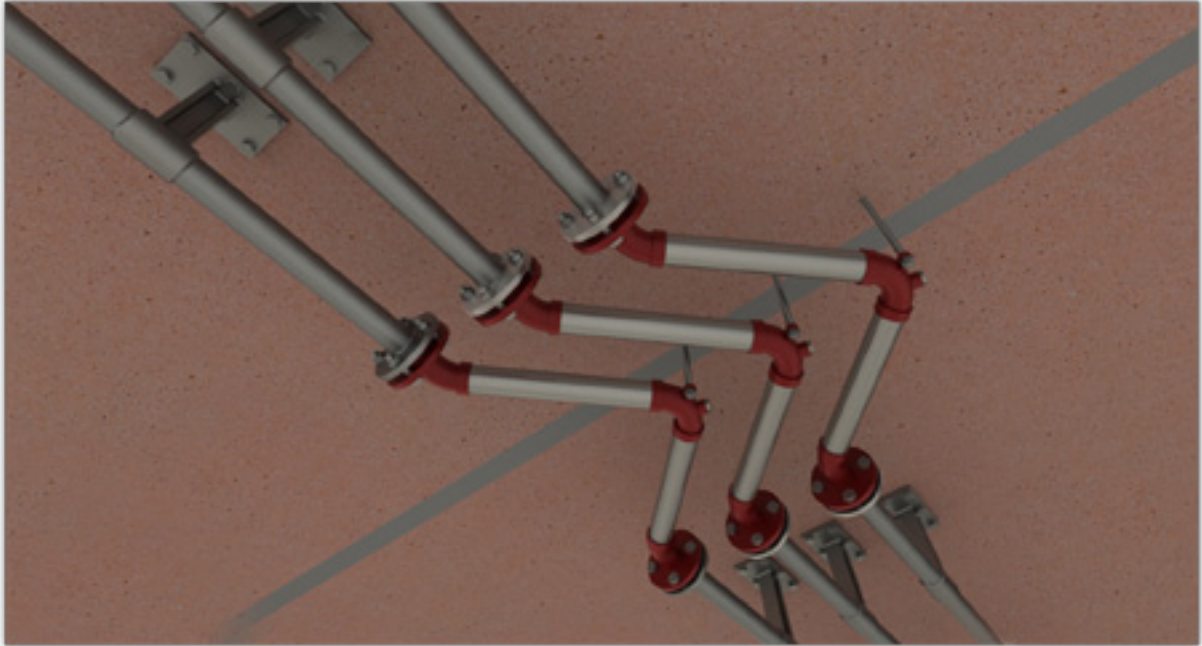
MONTAGE DETAILS

V Flex sismik kompensatörler bina geçiş noktasının (dilatasyon noktası) altına konulmalıdır. Her iki tarafı kaynaklı bağlantı ile sabitlenmeli, sabit noktalar boru çapının 4 katı kadar bir mesafeye konulmalıdır.

V - Flex seismic expansion joints must be placed under the building transition point (dilatation point). Both side must be fixed with welded conneciton, fixed points should be placed at a distance of 4 times the diameter of the pipe.



APPROVAL IDENTIFICATION: 3045917





KAYSE ENDÜSTRİYEL MAMÜLLER SAN. TİC. A.Ş.

Adres: Orhanlı Orta Mahalle Aktepe Sanayi Sitesi No:12 / B 34956 Tuzla / İstanbul

T : +90 216 304 00 65 (PBX)

F : +90 216 304 14 54

info@kayse.com.tr

www.kayse.com.tr