

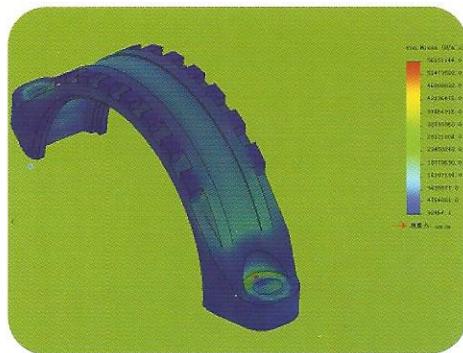
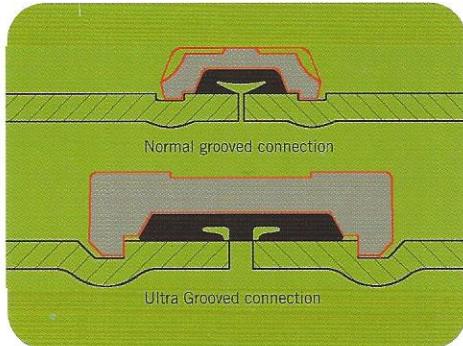
# UGS ULTRA GROOVED PIPING SYSTEM

DN200~ DN1800  
8"~72"



VISION

# Why UGS



VISION developed ULTRA GROOVED SYSTEM, "UGS", to satisfy the needs for design engineers, installers and maintenance workers for the piping system:

- Easy and Fast grooved connection of large size pipelines, preferably a coupling in Two-Piece structure. This house coupling must have high strength and stiffness in comparison to traditional small grooved couplings.
- When connecting large size pipeline, performance and safety of traditional grooved joints are tremendously decreased by larger tolerance of pipe outside diameter and misalignment of installation. In order to create a reliable grooved connection for largesize pipeline, VISION UGS coupling is designed with enhanced groove key that is able to hold greater stress and has a wider sealing surface. Thus, the stress on the groove of the pipe is reduced.
- Grooving large size pipes requires multiple pinch rollers of different sizes depending on the pipe size and thus extending the grooving process and cost. The new high efficient UGS system, grooves are uniformed in all sizes and uses the same roller. Please refer to VISION publication 09.17 "*Specification of UGS grooves*".
- The flare of the groove becomes a serious problem in larger size pipes upon grooving. UGS wider surface sealing controls the flare upon grooving, thus staying within the allowed specification.
- UGS is a heavy duty system that can stand greater bending moment thus making it suitable for underground piping systems.

For years VISION devoted its resources to developing piping solutions of variable applications. Today Vision is successfully launching its unique patented Ultra Grooved System UGS, size range DN200 thru DN1800 (8" thru 72"). The Two-Piece design provides a reliable joint with an outstanding pressure rating uniformed grooves and fast installation/maintenance features.

## An Environment-friendly product

- No welding required, eradicate fire risk and smoke pollution of welding work;
- Matching LEED (Leadership in Energy and Environmental Design) code;
- All parts and compound are safe and environment friendly, MSDS are available;
- Made by recyclable material, energy saving production;
- An emission reducing joint than flange connection and welding.

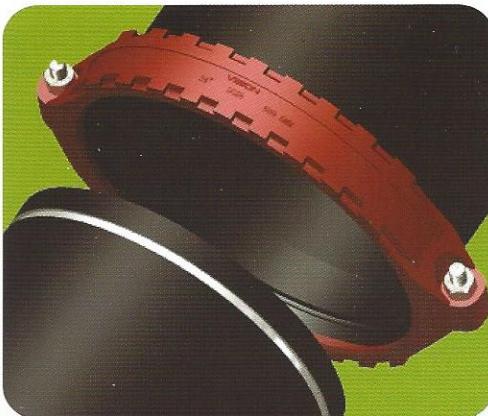


# What is UGS

## Uniformed structure and groove sizes

All sizes are Two-Piece structure for easy handling and installation thus saving the installation space and provide maximum possibilities. All main sizes (DN350 thru DN600/14" thru 24") pipes have the same groove, easy to groove and check.

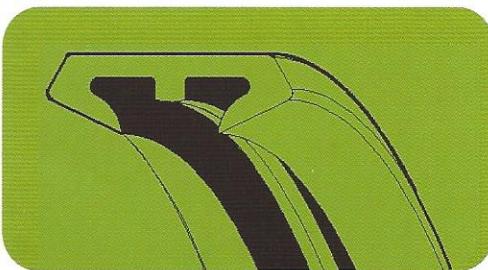
Size(N.D.)	200	250	300	350	400	450	500	550	600
Standard grooves									
UGS grooves									
Size(N.D.)	650	700	750	800	900	1000	1050	1100	1200
Standard grooves									
UGS grooves									



## E-shape gasket

Extra width sealing face prevents leaking caused by surface defects on pipe. The adaptability of UGS is remarkable.

The unique E-shape gasket equally distributes interior pressure on the coupling housing, thus increasing the safety factor of the coupling. This unique design provides high reliability and cost efficiency.



## High strength fastener

Sizes DN200 thru DN600 (8" thru 24") are assembled with one bolt/nut each side, for structure strength and easy installation;



DN200-DN600  
8"-24"

DN650-DN1200  
26"-48"

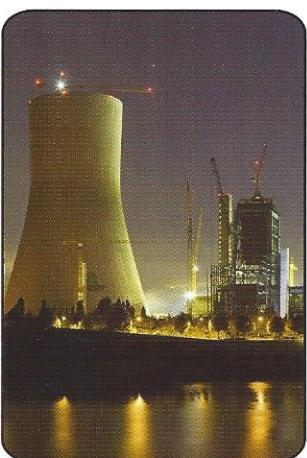
Size DN650 (26") and up, are assembled with two sets of bolts/nuts at each side, for joint stability.

All bolts are class 9.8 providing rigidity for the coupling, ability to handle high bending moment.

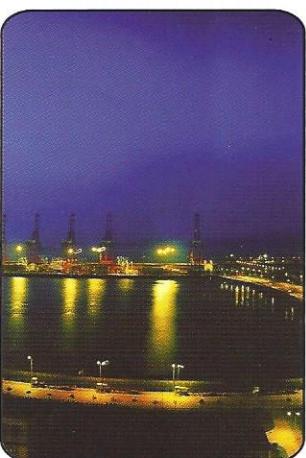
## Applications:



Commercial construction



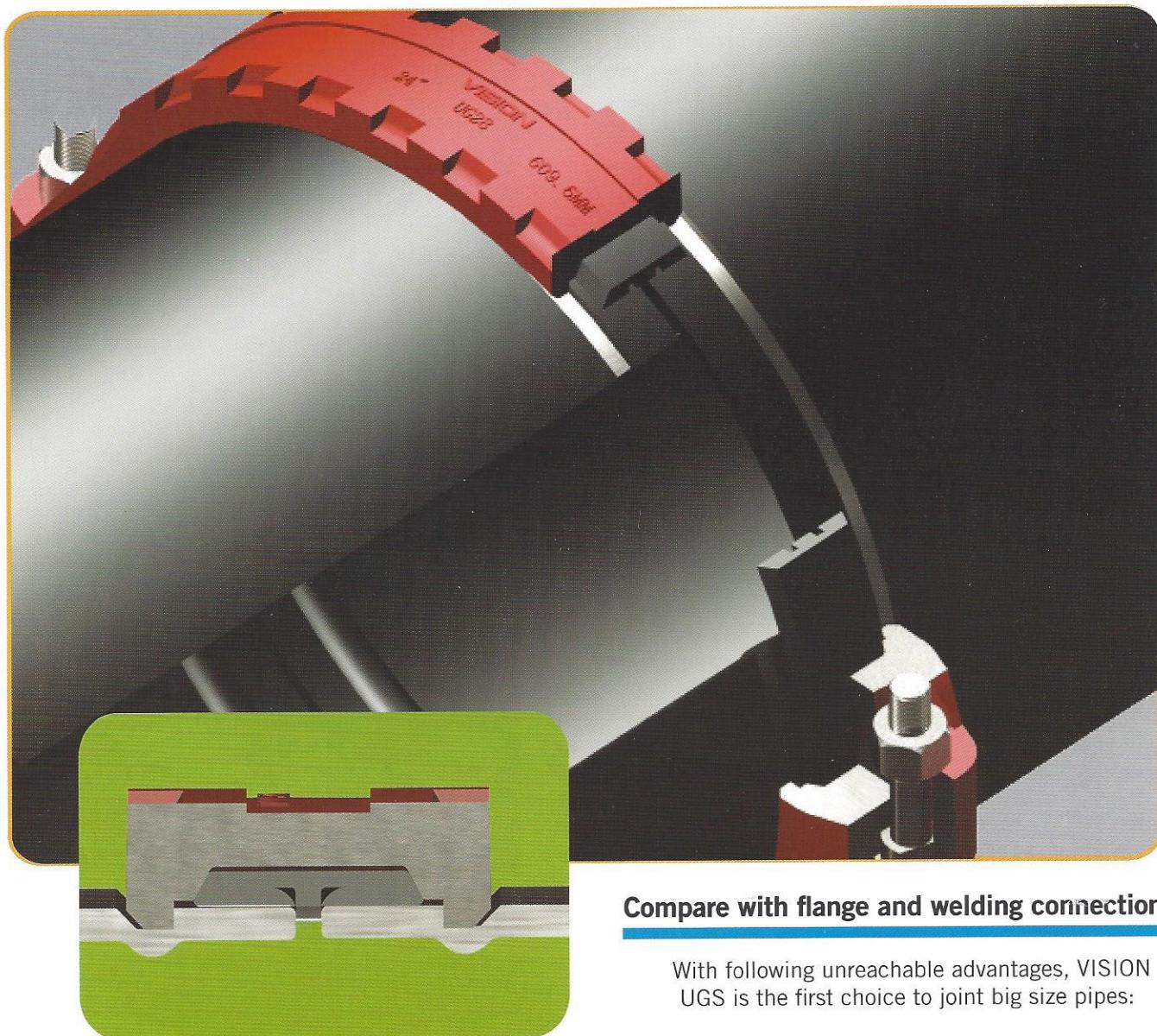
Industries



Municipal construction

- Chilled water system;
- Cooling water system;
- Heating system;
- Plumbing system;
- Drainage system;
- Gas system;
- Air compression system;
- Fire-fighting system;
- Underground piping system;
- Others

# Advantages



## Compare with traditional grooved couplings:

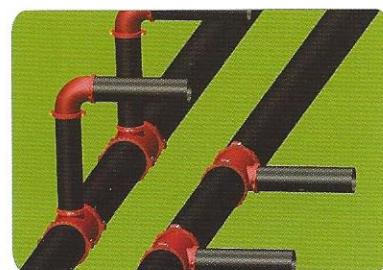
Wider sealing surface provides safer sealing and smaller flare at the pipe ends; reduce stress by roll grooving;

- Sizes DN350 thru DN600 (14" thru 24") have same grooves, simplifying the grooving work;
- Deeper grooving increases safety factor for the joint;
- Unique design of groove back-edge enhances the key of the coupling thus, resisting higher axial load.

## Compare with flange and welding connection

With following unreachable advantages, VISION UGS is the first choice to joint big size pipes:

- No open fire, eradicate fire risk during welding;
- Fast installation enhancing work efficiency;
- A vibration absorbing coupling, minimizing the damage of an earthquake;
- A flexible joint, absorbs heat expansion and subsidence of the pipeline;
- Easy dismounting, good for maintenance;
- Outstanding performance of flexibility (absorb axial, radial, angular movement and impact) and strength, suitable for buried piping system.



# Installation and Service

The Two-Piece design simplifies the installation, meanwhile, uniformed grooves is very easy to implement. Jointing pipes with VISION special developed VG900U grooving system is three to five times faster than welding and eight times faster than flange connection meanwhile no pinch roller change.

To inspect the correct installation of a Two-Piece coupling is to simply apply a visual check. Once the Two-Piece of coupling housing are tightened metal-to-metal, job is done.

## Caution

1. Please only use appropriate roller (pinch and knurl) on VISION groove machine. UGS roller is different than the normal groove machine roller. Wrong use of roller will cause installation failure.
2. Please always follow VISION Installation Manual code AZ-100 for installation. Any violation of VISION specifications/instructions may cause failure, property damage or body injury.
3. Please make sure the grooves are properly rolled as per specified dimensions in the Installation Manual.
4. Pipes maybe elongated (approx. 3.2mm or  $\frac{1}{8}$ " ) by roll grooving. Please consider this elongation during calculation.



## Fabrication service

In order to increase efficiency and quality of installation, VISION provides fabrication service for our customers. With special UGS grooving machine and experienced field engineers VISION is able to guarantee the job will be done as planned.



## Field grooving service

VISION provides field service handled by experienced workers and field engineers.

## Pre-Fabrication service

VISION provides in-shop pre-fabrication services, including design deepening, pipe cutting, grooving, hole drilling, welding and surfacetreatment. The factory processing of pipe will increase the precision and deduct the field work.



# System

The UGS system covers both flexible and rigid coupling, it serves different piping system and working conditions. Rigid coupling is divided by pressure rating as style code UG28R, UG29R and HD30R and flexible coupling as UG28, UG29 and HD30.

## Rated Working Pressure (RWP) list of UGS couplings

Size		Rigid Couplings			Flexible Couplings		
Nominal Dia.	Actual O.D.	UG28R	UE29R	HP30R	UG28	UE29	HP30
mm	mm	MPa	MPa	MPa	MPa	MPa	MPa
200	219.1						
250	273.0						
300	323.9						
350	355.6	2.5	6.4	10.0	2.5	6.4	10.0
350	377.0	2.5	6.4	10.0	2.5	6.4	10.0
400	406.4	2.5	6.4	10.0	2.5	6.4	10.0
400	426.0	2.5	6.4	10.0	2.5	6.4	10.0
450	457.2	2.5	6.4	10.0	2.5	6.4	10.0
450	480.0	2.5	6.4	10.0	2.5	6.4	10.0
500	508.0	2.5	⊕	⊕	2.5	⊕	⊕
500	530.0	2.5	⊕	⊕	2.5	⊕	⊕
600	609.6	2.5	⊕	⊕	2.5	⊕	⊕
600	630.0	2.5	–	–	2.5	–	–
650	660.4	2.1	–	–	2.1	–	–
700	711.2	2.1	–	–	2.1	–	–
700	720.0	2.1	–	–	2.1	–	–
750	762.0	2.1	–	–	2.1	–	–
800	812.8	2.1	–	–	2.1	–	–
900	914.4	2.1	–	–	2.1	–	–
1000	1016.0	1.6	–	–	1.6	–	–
1050	1066.8	1.6	–	–	1.6	–	–
1100	1117.6	1.6	–	–	1.6	–	–
1150	1168.4	1.6	–	–	1.6	–	–
1200	1219.2	1.6	–	–	1.6	–	–
1300	1320.8	1.0	–	–	1.0	–	–
1350	1371.6	1.0	–	–	1.0	–	–
1400	1422.4	1.0	–	–	1.0	–	–
1500	1524.0	1.0	–	–	1.0	–	–
1600	1625.6	1.0	–	–	1.0	–	–
1700	1727.2	1.0	–	–	1.0	–	–
1800	1828.8	1.0	–	–	1.0	–	–

All Rated Working Pressure (RWP) listed above is calculated by carbon steel pipe with standard wall thickness. In case light wall pipes are used with UGS products, please contact VISION for applicable RWP.

⊕: Please contact VISION for more information.

## Note

The Rated working pressure and the pipe end load are the total of internal and external load on the coupling. For Detail information please refer to VISION publication 20.01.

Allowable Pipe End Separation and Flexibility tolerance are calculated based on carbon steel pipe with standard wall thickness and standard roll/cut grooves. These values are MAXIMUMS. For design and installation purposes, these figures should be reduced by 25% for safety factor.

**Rated Working Pressure (RWP):**VISION UGS grooved couplings are specified with RWP. It determined the maximum working pressure which the coupling is able to resist. Coupling is hydrostatic pressure tested to twice or higher the RWP, this ensures the coupling integrity at maximum working pressure.

**Pipe end load:** VISION UGS grooved couplings are specified with pipe end load. It specified the maximum pipe end load which the coupling is able to hold. The pipe end load is the total of internal and external load on the coupling. Following the pipe end load is a guarantee of safety during installation and long resist in vertical and inclined pipe system.



Style UG28



Style UE29

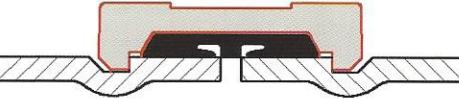
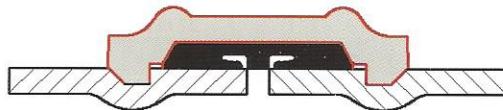


Style HP30

# Technical data and arguments

The UGS Rigid Coupling includes UG28R, UG29R and HP30R. They are designed for pipelines that need rigid joints, like fire protection, water supply, drainage or compress air applications. Rigid couplings are also suitable for piping system with heat extension, but VISION expansion joint style #221 or regular expansion joint is required. For detail information please refer to VISION publication 20.01.

The key of UGS rigid coupling has a perfect match with the unique UGS groove coupling in both axial and radial direction. This design provides an outstanding rigidity of the joint.



Size		Max. Work pressure	Max. End Load	UG28R		UG28		
Nominal Dia.	Actual O. D.			Allow. Pipe End sep	Allow. Pipe End sep	Max. Allow. Angular Defl.	Max. Allow. Lateral movement	
mm	mm	MPa	N	mm	mm	(°)	mm/m	
200	219.1							
250	273.0							
300	323.9							
350	355.6	2.5	248287	6.4	3.3-7.9	0.74	12.9	
350	377.0	2.5	279070	6.4	3.3-7.9	0.70	12.2	
400	406.4	2.5	324294	6.4	3.3-7.9	0.65	11.3	
400	426.0	2.5	356328	6.4	3.3-7.9	0.62	10.8	
450	457.2	2.5	410434	6.4	3.3-7.9	0.58	10.1	
450	480.0	2.5	452390	6.4	3.3-7.9	0.55	9.6	
500	508.0	2.5	506709	6.4	3.3-7.9	0.52	9.1	
500	530.0	2.5	551547	6.4	3.3-7.9	0.50	8.7	
600	609.6	2.5	729660	6.4	3.3-7.9	0.43	7.5	
600	630.0	2.5	779313	6.4	3.3-7.9	0.42	7.3	
650	660.4	2.1	719324	9.6	3.8-13.5	0.84	14.7	
700	711.2	2.1	834245	9.6	3.8-13.5	0.78	13.6	
700	720.0	2.1	855018	9.6	3.8-13.5	0.77	13.5	
750	762.0	2.1	957679	9.6	3.8-13.5	0.73	12.7	
800	812.8	2.1	1089626	9.6	3.8-13.5	0.68	11.9	
900	914.4	2.1	1379058	9.6	3.8-13.5	0.61	10.6	
1000	1016.0	1.6	1297174	11.1	5.3-15.0	0.55	9.5	
1050	1066.8	1.6	1430135	11.1	5.3-15.0	0.52	9.1	
1100	1117.6	1.6	1569581	11.1	5.3-15.0	0.50	8.7	
1150	1168.4	1.6	1715513	11.1	5.3-15.0	0.48	8.3	
1200	1219.2	1.6	1867931	11.1	5.3-15.0	0.46	8.0	
1300	1320.8	1.0	1370140	12.7	7.1-16.8	0.42	7.3	
1350	1371.6	1.0	1477562	12.7	7.1-16.8	0.41	7.1	
1400	1422.4	1.0	1589038	12.7	7.1-16.8	0.39	6.8	
1500	1524.0	1.0	1824151	12.7	7.1-16.8	0.36	6.4	
1600	1625.6	1.0	2075479	12.7	7.1-16.8	0.34	6.0	
1700	1727.2	1.0	2343021	12.7	7.1-16.8	0.32	5.6	
1800	1828.8	1.0	2626778	12.7	7.1-16.8	0.30	5.3	

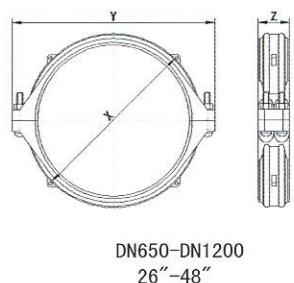
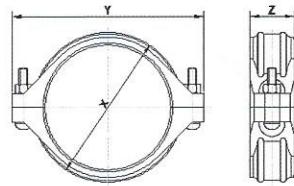
Note: 1. Please contact VISION engineers if more expansion or deflection is required;  
2. To design a flexible connection system, please refer to VISION publication 20.01.

The UGS Flexible Couplings include Style UG28, UG29 and HP30, is suitable for flexible connection for HVAC, circulating cooling water, heating, buried pipe systems. For design data of flexible joints, please refer to VISION publication 20.01.

The key section of UGS flexible coupling is designed to have a small gap to the UGS groove width and depth. They provide both axial flexibility and angular deflection.

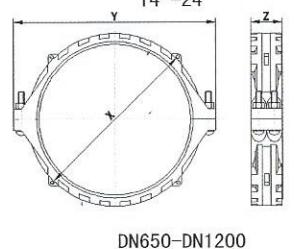
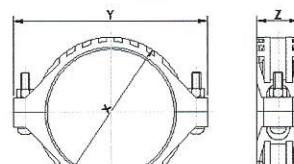
# UGS Grooved Couplings

## Style UG28R UGS Rigid Coupling



Nominal Dia.	Actual O.D.	Dimensions			Bolt size	Weight
		X	Y	Z		
mm	mm	mm	mm	mm	mm	kg
200	219.1			Please contact VISION for detailed information.		
250	273.0					
300	323.9					
350	355.6	412	525	121	M24X150	23.3
350	377.0	434	547	121	M24X150	27.6
400	406.4	465	580	121	M24X150	31.0
400	426.0	485	600	121	M24X150	32.0
450	457.2	518	632	121	M24X150	35.6
450	480.0	541	656	121	M24X150	37.2
500	508.0	571	686	121	M27X150	41.0
500	530.0	593	708	121	M27X150	42.2
600	609.6	674	802	121	M27X150	52.6
600	630.0	696	822	121	M27X150	54.4
650	660.4	747	889	144	M27X180	93.0
700	711.2	802	940	144	M27X180	99.8
700	720.0	810	949	144	M27X180	101.1
750	762.0	854	991	144	M30X180	103.0
800	812.8	907	1044	144	M30X180	109.8
900	914.4	994	1150	144	M30X180	121.6
1000	1016.0	1126	1282	165	M36X190	154.2
1050	1066.8	1179	1333	165	M36X190	163.3
1100	1117.6	1234	1384	165	M36X190	174.3
1150	1168.4	1287	1435	165	M36X190	188.2
1200	1219.2	1340	1486	165	M36X190	192.8

## Style UG28 UGS Flexible Coupling



Nominal Dia.	Actual O.D.	Dimensions			Bolt size	Weight
		X	Y	Z		
mm	mm	mm	mm	mm	mm	kg
200	219.1			Please contact VISION for detailed information.		
250	273.0					
300	323.9					
350	355.6	409	525	114	M24X150	23.4
350	377.0	431	547	114	M24X150	26.3
400	406.4	462	580	114	M24X150	29.5
400	426.0	482	600	114	M24X150	30.6
450	457.2	515	632	114	M24X150	33.8
450	480.0	538	656	114	M24X150	35.3
500	508.0	568	686	114	M27X150	39.3
500	530.0	590	708	114	M27X150	39.9
600	609.6	671	802	114	M27X150	48.5
600	630.0	693	822	114	M27X150	50.1
650	660.4	743	889	144	M27X180	93.0
700	711.2	799	940	144	M27X180	99.8
700	720.0	807	949	144	M27X180	101.1
750	762.0	852	991	144	M30X180	103.0
800	812.8	904	1044	144	M30X180	109.8
900	914.4	991	1150	144	M30X180	121.6
1000	1016.0	1122	1282	165	M36X190	154.2
1050	1066.8	1175	1333	165	M36X190	163.3
1100	1117.6	1230	1384	165	M36X190	174.3
1150	1168.4	1283	1435	165	M36X190	188.2
1200	1219.2	1336	1486	165	M36X190	192.8

# UGS Fittings

UGS system covers variable fittings, includes and not limited to elbows, tees, reducers and flange adaptors etc. They are all fabricated by steel pipes. In this way UGS fittings provide a wide choice of wall thicknesses and radii. Customized fittings and combined type fittings are available upon request.

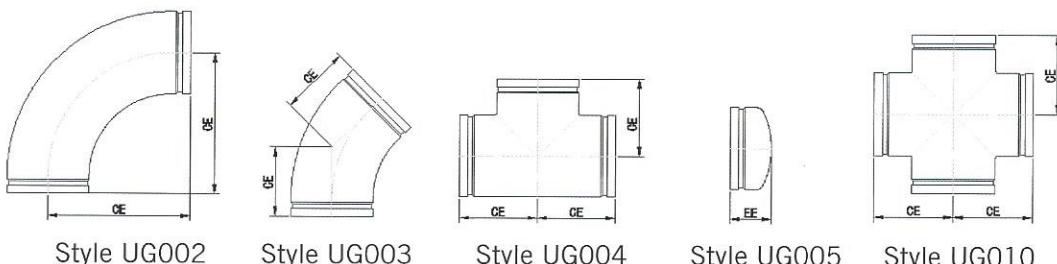
## Style UG002 90 Degree Elbow

## Style UG003 45 Degree Elbow

## Style UG004 Equal Tee

## Style UG005 End Cap

## Style UG010 Equal Tee



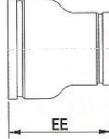
Size Nominal Dia mm	UG002		UG003		UG004		UG005		UG010		
	Actual O. D. mm	CE mm	Weight kg	CE mm	Weight kg	CE mm	Weight kg	EE mm	Weight kg	CE mm	Weight kg
200	219.1	203.0	15.6	84.0	7.8	178.0	27.4	102.0	5.2	178.0	34.7
250	273.0	254.0	28.2	113.0	14.1	216.0	47.2	127.0	9.1	216.0	59.8
300	323.9	305.0	37.2	134.0	18.6	254.0	73.5	152.0	13.4	254.0	93.2
350	355.6	356.0	49.0	147.0	24.5	279.0	89.0	165.0	16.0	279.0	112.7
350	377.0	356.0	51.8	147.0	25.9	279.0	94.4	165.0	17.0	279.0	119.6
400	406.4	406.0	61.3	168.0	30.6	305.0	113.5	178.0	20.1	305.0	143.8
400	426.0	406.0	64.5	168.0	32.2	305.0	118.9	178.0	21.1	305.0	150.7
450	457.2	457.0	79.9	189.0	40.0	343.0	128.0	203.0	25.9	343.0	162.2
450	480.0	457.0	84.0	489.0	42.0	343.0	134.4	203.0	27.2	343.0	170.3
500	508.0	508.0	108.1	210.0	54.0	381.0	171.6	229.0	32.2	381.0	217.4
500	530.0	508.0	112.6	210.0	56.3	381.0	178.9	229.0	33.6	381.0	226.6
600	609.6	610.0	138.5	252.0	69.2	432.0	247.0	267.0	46.3	432.0	312.9
600	630.0	610.0	143.0	252.0	71.5	432.0	255.1	267.0	47.7	432.0	323.3
650	660.4	660.0	163.0	274.0	81.5	495.0	287.8	267.0	49.9	495.0	364.7
700	711.2	711.0	188.4	295.0	94.2	521.0	331.0	267.0	54.5	521.0	419.3
700	720.0	711.0	190.7	295.0	95.3	521.0	335.1	267.0	55.4	521.0	424.5
750	762.0	762.0	213.4	316.0	106.7	559.0	388.2	267.0	56.8	559.0	491.8
800	812.8	813.0	247.9	337.0	123.9	597.0	449.9	267.0	65.8	597.0	570.0
900	914.4	914.0	314.2	379.0	157.1	673.0	587.5	267.0	79.5	673.0	744.3
1000	1016.0	1016.0	404.1	421.0	202.0	749.0	722.8	305.0	90.8	749.0	915.7
1050	1066.8	1067.0	489.9	442.0	244.9	762.0	849.0	305.0	104.4	762.0	1075.7
1100	1117.6	1118.0	575.7	464.0	287.8	813.0	976.1	343.0	118.0	813.0	1236.7
1150	1168.4	1168.0	660.6	484.0	330.3	851.0	1103.2	343.0	129.4	851.0	1397.8
1200	1219.2	1220.0	744.6	506.0	372.3	889.0	1230.3	343.0	140.7	889.0	1558.8

Note: All weights listed are calculated by standard wall thickness carbon steel pipes. If special thickness is required, please contact VISION for detail information.

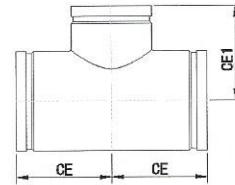
# UGS Grooved Couplings

**UG008 Reducer**

**UG011 Reducing Tee**



Style UG008



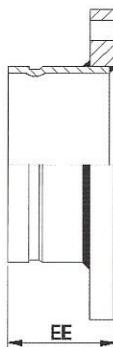
Style UG011

Size		UG008		UG011			
Main Run	X	Outlet	CE	Weight	CE1	CE	Weight
mm		mm	mm	kg	mm	mm	kg
350	X	150	330.0	29.6	238.0	279.0	93.6
		200	330.0	29.8	248.0	279.0	93.2
		250	330.0	29.9	257.0	279.0	93.7
		300	300.0	30.1	270.0	279.0	94.1
400	X	150	—	—	264.0	305.0	116.5
		200	356.0	36.1	273.0	305.0	117.0
		250	356.0	36.4	283.0	305.0	117.6
		300	356.0	36.5	295.0	305.0	118.2
		350	356.0	36.7	305.0	305.0	118.7
450	X	200	—	—	298.0	343.0	132.1
		250	381.0	44.2	308.0	343.0	132.7
		300	381.0	44.5	321.0	343.0	133.2
		350	381.0	44.6	330.0	343.0	133.8
		400	381.0	44.8	330.0	343.0	134.3
500	X	200	—	—	324.0	381.0	175.6
		250	—	—	333.0	381.0	176.0
		300	508.0	66.9	346.0	381.0	176.8
		350	508.0	67.2	356.0	381.0	177.5
		400	508.0	67.5	356.0	381.0	178.2
		450	508.0	67.7	368.0	381.0	178.7
600	X	250	—	—	384.0	432.0	252.1
		300	—	—	397.0	432.0	252.6
		350	508.0	78.8	406.0	432.0	253.1
		400	508.0	79.1	406.0	432.0	253.7
		450	508.0	79.4	419.0	432.0	254.3
		500	508.0	79.6	432.0	432.0	254.8
650	X	300	—	—	422.0	495.0	284.3
		350	—	—	432.0	495.0	284.9
		400	610.0	94.5	432.0	495.0	285.5
		450	610.0	94.8	444.0	495.0	286.1
		500	610.0	95.1	457.0	495.0	286.6
		600	610.0	95.4	483.0	495.0	287.4
700	X	300	—	—	448.0	521.0	332.1
		350	—	—	457.0	521.0	332.5
		400	—	—	457.0	521.0	333.1
		450	610.0	100.4	470.0	521.0	333.6
		500	610.0	100.7	483.0	521.0	334.1
		600	610.0	101.0	508.0	521.0	334.6
		650	610.0	101.2	521.0	521.0	335.0
750	X	250	—	—	460.0	559.0	384.1
		300	—	—	473.0	559.0	384.5
		350	—	—	483.0	559.0	384.8
		400	—	—	483.0	559.0	385.2
		450	—	—	495.0	559.0	385.8
		500	610.0	103.8	508.0	559.0	386.5
		600	610.0	104.2	533.0	559.0	387.1
		650	610.0	104.8	546.0	559.0	387.5
		700	610.0	105.1	546.0	559.0	387.9

Size		UG008		UG011			
Main Run	X	Outlet	CE	Weight	CE1	CE	Weight
mm		mm	mm	kg	mm	mm	kg
800	X	350	—	—	508.0	597.0	445.4
		400	—	—	508.0	597.0	445.8
		450	—	—	521.0	597.0	446.2
		500	—	—	533.0	597.0	446.8
		600	610.0	120.3	559.0	597.0	447.3
		650	610.0	120.8	572.0	597.0	447.8
		700	610.0	121.3	572.0	597.0	448.5
		750	610.0	121.6	584.0	597.0	449.3
900	X	400	—	—	559.0	673.0	583.2
		450	—	—	572.0	673.0	583.5
		500	—	—	584.0	673.0	583.9
		600	610.0	146.4	610.0	673.0	584.6
		650	610.0	146.9	622.0	673.0	585.1
		700	610.0	147.1	622.0	673.0	585.8
		750	610.0	147.5	635.0	673.0	586.4
		800	610.0	147.8	648.0	673.0	587.3
1000	X	450	—	—	622.0	749.0	717.4
		500	—	—	635.0	749.0	717.9
		600	—	—	660.0	749.0	718.7
		650	—	—	673.0	749.0	719.5
		700	610.0	156.1	673.0	749.0	720.2
		750	610.0	156.5	698.0	749.0	720.8
		800	610.0	157.0	711.0	749.0	721.4
		900	610.0	157.4	737.0	749.0	722.5
1050	X	500	—	—	660.0	762.0	842.3
		600	—	—	660.0	762.0	843.1
		650	—	—	698.0	762.0	843.8
		700	—	—	698.0	762.0	844.6
		750	610.0	160.2	711.0	762.0	845.3
		800	610.0	160.9	711.0	762.0	846.1
		900	610.0	161.5	711.0	762.0	847.2
		1000	610.0	162.1	711.0	762.0	848.6
1100	X	600	—	—	698.0	813.0	969.4
		650	—	—	698.0	813.0	970.1
		700	—	—	698.0	813.0	970.9
		750	—	—	711.0	813.0	971.6
		800	610.0	166.1	711.0	813.0	972.6
		900	610.0	166.5	724.0	813.0	973.7
		1000	610.0	166.9	749.0	813.0	974.8
		1050	610.0	167.3	762.0	813.0	975.8
1200	X	700	—	—	762.0	889.0	1222.3
		750	—	—	762.0	889.0	1223.1
		800	—	—	787.0	889.0	1223.9
		900	711.0	189.5	787.0	889.0	1225.1
		1000	711.0	190.1	813.0	889.0	1226.3
		1050	711.0	190.6	813.0	889.0	1227.4
		1100	711.0	191.1	838.0	889.0	1228.5
		1150	711.0	191.5	838.0	889.0	1229.8

# UGS Grooved Couplings

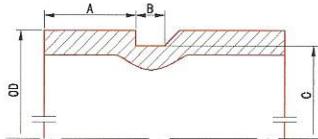
## UG015 Flange Adaptor



Style UG015

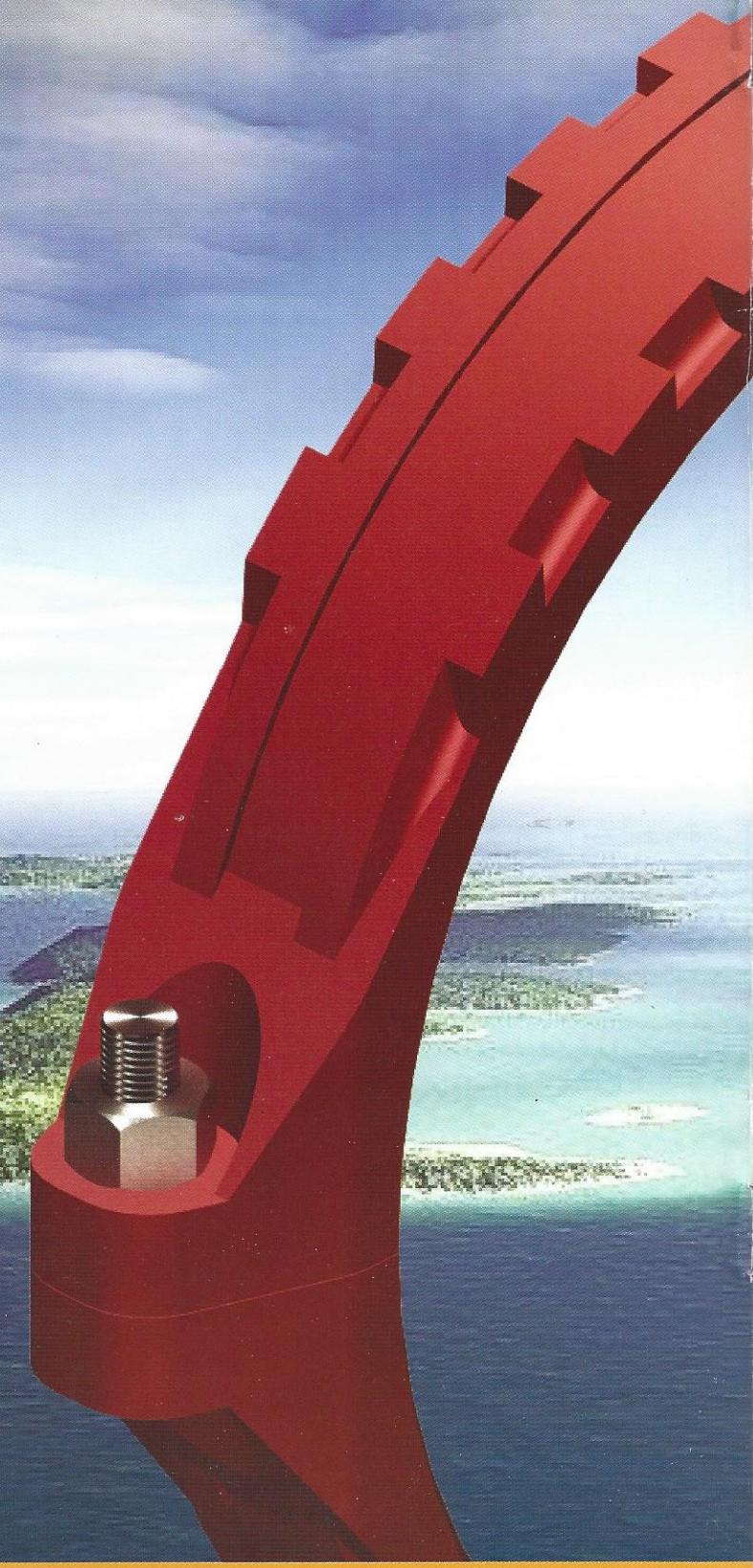
Nominal Dia.	Size		UG015D1		UG015D2	
	Actual O.D.	CE	Weight	CE	Weight	
mm	mm	mm	mm	mm	kg	
200	219.1	152.0	15.7	152.0	16.3	
250	273.0	203.0	24.3	203.0	26.7	
300	323.9	203.0	29.7	203.0	34.0	
350	355.6	203.0	38.6	203.0	45.0	
350	377.0	203.0	39.7	203.0	46.1	
400	406.4	203.0	50.7	203.0	55.1	
400	426.0	203.0	51.6	203.0	56.1	
450	457.2	203.0	54.5	203.0	68.5	
450	480.0	203.0	55.7	203.0	69.6	
500	508.0	203.0	64.7	203.0	89.1	
500	530.0	203.0	65.8	203.0	90.2	
600	609.6	203.0	82.7	203.0	125.7	
600	630.0	203.0	83.8	203.0	126.7	
650	660.4	229.0	⊕	229.0	⊕	
700	711.2	229.0	⊕	229.0	⊕	
700	720.0	229.0	⊕	229.0	⊕	
750	762.0	229.0	⊕	229.0	⊕	
800	812.8	229.0	⊕	229.0	⊕	
900	914.4	229.0	⊕	229.0	⊕	
1000	1016.0	254.0	⊕	254.0	⊕	
1050	1066.8	254.0	⊕	254.0	⊕	
1100	1117.6	254.0	⊕	254.0	⊕	
1150	1168.4	254.0	⊕	254.0	⊕	
1200	1219.2	254.0	⊕	254.0	⊕	

## Groove Parameter



Nominal Dia.	Size				Sealing Face	Groove Width	Diam. of groove bottom
	Actual O.D.	Tolerance		A	B	Standard	Tolerance
mm	mm	mm	mm	± 0.76mm	± 0.76mm	mm	mm
200	219.1	+1.60	-0.79				
250	273.0	+1.60	-0.79				
300	323.9	+1.60	-0.79				
350	355.6	+1.60	-0.79	38.1	11.6	342.9	-1.1
350	377.0	+1.60	-0.79	38.1	11.6	364.3	-1.1
400	406.40	+1.60	-0.79	38.1	11.6	393.7	-1.1
400	426.0	+1.60	-0.79	38.1	11.6	413.3	-1.1
450	457.2	+1.60	-0.79	38.1	11.6	444.5	-1.1
450	480.0	+1.60	-0.79	38.1	11.6	467.3	-1.1
500	508.0	+1.60	-0.79	38.1	11.6	495.3	-1.1
500	530.0	+1.60	-0.79	38.1	11.6	517.3	-1.1
600	609.6	+1.60	-0.79	38.1	11.6	596.9	-1.1
600	630.0	+1.60	-0.79	38.1	11.6	617.3	-1.1
650	660.4	+2.36	-0.79	44.5	13.6	645.9	-1.5
700	711.2	+2.36	-0.79	44.5	13.6	696.7	-1.5
700	720.0	+2.36	-0.79	44.5	13.6	705.5	-1.5
750	762.0	+2.36	-0.79	44.5	13.6	747.5	-1.5
800	812.8	+2.36	-0.79	44.5	13.6	798.3	-1.5
900	914.4	+2.36	-0.79	44.5	13.6	899.9	-1.5
1000	1016.0	+2.36	-0.79	50.8	14.3	1000.1	-1.5
1050	1066.8	+2.36	-0.79	50.8	14.3	1050.9	-1.5
1100	1117.6	+2.36	-0.79	50.8	14.3	1101.7	-1.5
1150	1168.4	+2.36	-0.79	50.8	14.3	1152.5	-1.5
1200	1219.2	+2.36	-0.79	50.8	14.3	1203.3	-1.5

Please contact VISION for detailed information.



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