Flexible Coupling
Style UG28

VISION

UG28 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.

Size：

- DN200-DN1800 I 8-72''
- For Sizes 14'' and up, please refer to UG28R.

Maximum Working Pressure：

- 5.2MPa(750psi)
- Working pressure depend on material, wall thickness and pipe size

Material Specifications

Housing:

Ductile iron confirming to ASTM A536, Grade 65-45-12, other material also available, please consult VISION.

Coating：

Orange-Standard

Red- Optional

Hot-Dipped, Zinc Galvanized-Optional

Bolts/Nuts:

Heat-treated plated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

Gasket:

Grade "E" EPDM gaskets have a green striped color code identification and conform to ASTM D2000 for service temperatures from -34^{0}C to 110^{0}C(-30^{0}F to 230^{0}F). They are recommended for hot water not to exceed 110^{0}C(230^{0}F), plus a variety of dilute acids, oil free air, and many chemical service.

Grade "T" Nitrile gaskets have an orange striped color code identification and conform to ASTM D2000 for service temperatures from -29^{0}C to 82^{0}C(-20^{0}F to 180^{0}F). They are recommended for petroleum products, vegetable oils, mineral oils, and air with oil vapors. For more material of the gaskets, please refer to VISION publication 09.05.

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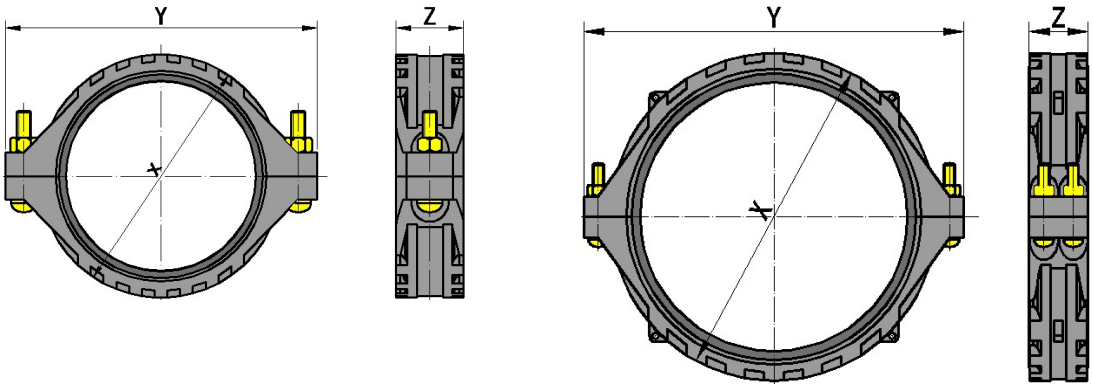

SIZE		Max.	Max.	Allowable	Dimensions			Bolt/Nut	Approximate
Nominal	Actual O.D.	Working Pressure	End Load	Pipe End Separation	X	Y	Z	Size	Weight
mm	mm	Mpa	N	mm	mm	mm	mm	mm	kg
Inches	Inches	Psi	Lbs.	Inches	Inches	Inches	Inches	Inches	Lbs.ft
200	219.1	4.1	154503	3.7-7.9	273	389	95	M24X140	15.2
8	8.625	600	35038	0.15-0.31	10.75	15.31	3.74	1×5	33.5
250	273.0	4.1	239872	3.7-7.9	330	442	95	M24X140	17.9
10	10.748	600	54410	0.15-0.31	12.99	17.40	3.74	1×5	39.4
300	323.9	4.1	337657	3.7-7.9	380	493	95	M24X140	21.3
12	12.752	600	76591	0.15-0.31	14.96	19.41	3.74	1×5	46.9
350	355.6	2.5	248287	3.7-7.9	409	525	114	M24X150	23.4
14	14.000	350	55815	0.15-0.31	16.10	20.67	4.49	1×6	51.5
350	377.0	2.5	279070	3.7-7.9	431	547	114	M24X150	26.3
14	14.843	350	62735	0.15-0.31	16.97	21.54	4.49	1×6	57.9
400	426.0	2.5	356328	3.7-7.9	482	600	114	M24X150	30.6
16	16.771	350	80103	0.15-0.31	18.98	23.62	4.49	1×6	67.4
450	457.2	2.5	410434	3.3-7.9	515	632	114	M24X150	33.9
18	18.709	350	92266	0.15-0.31	20.28	24.88	4.49	1×6	74.7
500	508.0	2.5	506709	3.3-7.9	568	686	114	M27X150	39.3
20	20.000	350	113908	0.15-0.31	22.36	27.01	4.49	1⅛×6	86.6
500	530.0	2.5	551547	3.3-7.9	590	708	114	M27X150	40.0
20	20.866	350	123988	0.15-0.31	23.29	27.87	4.49	1⅛×6	88.1
600	609.6	2.5	729660	3.3-7.9	671	802	114	M27X150	48.5
24	24.000	350	164028	0.15-0.31	26.42	31.57	4.49	1⅛×6	106.8
600	630.0	2.5	779313	3.3-7.9	693	822	114	M27X150	50.1
24	24.803	350	175190	0.15-0.31	27.28	32.36	4.49	1⅛×6	110.4
650	660.4	2.1	719324	3.8-13.5	743	889	144	M27X180	93.0
26	26.000	300	161704	0.15-0.53	29.25	35.00	4.49	1⅛×7	204.8
700	711.2	2.1	834245	3.8-13.5	799	940	144	M27X180	99.8
28	28.000	300	187538	0.15-0.53	31.46	37.01	4.49	1⅛×7	219.8
700	720.0	2.1	855018	3.8-13.5	807	949	144	M27X180	101.1
28	28.346	300	192208	0.15-0.53	31.77	37.36	4.49	1⅛×7	222.7
750	762.0	2.1	957679	3.8-13.5	852	991	144	M30X180	103.0
30	30.000	300	215286	0.15-0.53	33.54	39.02	4.49	1¼×7	226.9
800	812.8	2.1	1089626	3.8-13.5	904	1044	144	M30X180	109.8
32	32.000	300	244948	0.15-0.53	35.60	41.10	4.49	1¼×7	241.9
900	914.4	2.1	1379058	3.8-13.5	991	1150	144	M30X180	121.6
36	36.000	300	310012	0.15-0.53	39.02	45.28	4.49	1¼×7	267.8
1000	1016.0	1.6	1297174	5.3-15.0	1122	1282	165	M36X190	154.2
40	40.000	250	291605	0.21-0.59	44.17	50.47	6.50	1⅛×7	339.6
1050	1066.8	1.6	1430135	5.3-15.0	1175	1333	165	M36X190	163.3
42	42.000	250	321494	0.21-0.59	46.26	52.48	6.50	1⅛×7	359.7
1200	1219.2	1.6	1867931	5.3-15.0	1336	1486	165	M36X190	192.8
48	48.000	250	419911	0.21-0.59	52.60	58.50	6.50	1⅛×7	424.7
1300	1320.8	1.0	1370140	7.1-16.8	1444	1594	206	M36X190	229.7
52	52.000	150	308007	0.28-0.66	56.85	62.76	8.11	1⅛×7	505.9
1400	1422.4	1.0	1589038	7.1-16.8	1548	1698	206	M36X190	248.5
56	56.000	150	357216	0.28-0.66	60.94	66.85	8.11	1⅛×7	547.4
1500	1524.0	1.0	1824151	7.1-16.8	1652	1802	206	M36X190	267.4
60	60.000	150	410069	0.28-0.66	65.04	70.94	8.11	1⅛×7	589.0
1600	1625.6	1.0	2075479	7.1-16.8	1756	1906	206	M36X190	288.6
64	64.000	150	466568	0.28-0.66	69.13	75.04	8.11	1⅛×7	635.7
1700	1727.2	1.0	2343021	7.1-16.8	1860	2010	206	M36X190	310.5
68	68.000	150	526711	0.28-0.66	73.23	79.13	8.11	1⅛×7	683.9
1800	1828.8	1.0	2626778	7.1-16.8	1964	2114	206	M36X190	334.6
72	72.000	150	590500	0.28-0.66	77.32	83.23	8.11	1⅛×7	737.0

- The max. pipe end separation dimension shown is for system layout purposes only. Style UG28 is rigid coupling and will not accommodate expansion/contraction or angular movement of the pipe system.
- Working Pressure and end load are total, from internal and external loads based on standard weight steel pipe.
- Max. end gap is for cut grooved standard weight pipe. Values for roll grooved pipe will be half of cut grooved.

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