



Style 001 Rigid Coupling has a 60° angle pad design which constricts the housing keys into the groove around the circumference to create rigidity. The housings slide on the angled pads rather than mating squarely. This sliding adjustment also forces the key section into opposed contact on the inside and outside groove edges create a rigid connection. The unique “C” shape gasket performs triple sealing functions with tested and proven compression set and pocket volumetric, to increase the service life of the coupling.

Size:

- DN25-DN300 | 1-12”
- 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 conforming 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.

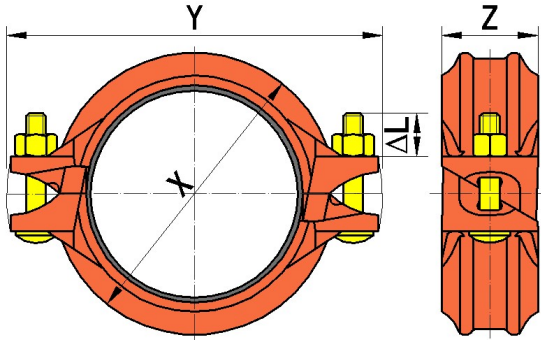
Gasket:

Grade “E” EPDM gaskets have a green striped color code identification and conform to ASTM D2000 for service temperatures from -34°C to 110°C(-30°F to 230°F). They are recommended for hot water not to exceed 110°C(230°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°C to 82°C(-20°F to 180°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.

Rigid Coupling Style 001

VISION



Size		Working Pressure	End Load	Pipe End Separation	Dimensions				Bolt/Nut		Weight
Nominal	Actual O.D.	Max.	Max.	Max.	X	Y	Z	ΔL	Size	Torque	Approximate
mm	mm	Mpa	N	mm	mm	mm	mm	mm	mm	N.m	kg
Inches	Inches	Psi	Lbs.	Inches	Inches	Inches	Inches	Inches	Inches	Lbs.ft	Lbs.
25	33.4	5.2	4532	2.2	55	98	45	15	M10×50	40-60	0.6
1	1.315	750	1018	0.09	2.17	3.86	1.77	0.59	¾×2	30-44	1.3
32	42.4	5.2	7303	2.2	60	107	45	15	M10×50	40-60	0.6
1¼	1.66	750	1622	0.09	2.36	4.21	1.77	0.59	¾×2	30-44	1.3
40	48.3	5.2	9477	2.2	71	114	45	15	M10×50	40-60	0.7
1½	1.9	750	2125	0.09	2.8	4.49	1.77	0.59	¾×2	30-44	1.4
50	60.3	5.2	14771	2.2	85	128	47	15	M10×50	40-60	0.8
2	2.375	750	3321	0.09	3.35	5.04	1.85	0.59	¾×2	30-44	1.8
73	73	5.2	21753	2.7	97	143	48	15	M10×55	40-60	1.1
2½	2.875	750	4866	0.11	3.82	5.63	1.89	0.59	¾×2¼	30-44	2.4
80	88.9	5.2	32106	2.7	113	161	48	15	M10×55	40-60	1.2
3	3.5	750	7212	0.11	4.45	6.34	1.89	0.59	¾×2¼	30-44	2.6
100	114.3	5.2	53073	4.7	143	195	53	15	M10×60	40-60	1.6
4	4.5	750	11922	0.19	5.63	7.68	2.09	0.59	¾×2½	30-44	3.5
125	139.7	5.2	79282	4.7	170	230	53	23	M12×75	80-120	2.3
5½OD	5.5	750	17810	0.19	6.69	9.06	2.09	0.91	¾×3	59-89	5.1
125	141.3	5.2	81500	4.7	172	230	53	23	M12×75	80-120	2.3
5	5.563	750	18220	0.19	6.77	9.06	2.09	0.91	¾×3	59-89	5.1
150	165.1	5.2	110732	4.7	198	259	52	23	M12×75	80-120	2.6
6½OD	6.5	750	24875	0.19	7.8	10.2	2.05	0.91	¾×3	59-89	5.7
150	168.3	5.2	115066	4.7	200	265	54	23	M12×75	80-120	2.7
6	6.625	750	25841	0.19	7.87	10.43	2.13	0.91	¾×3	59-89	6
200A	216.3	4.1	152049	5.9	253	231	59	36	M20×110	280-360	4.6
8	8.5	600	34030	0.23	9.96	12.64	2.32	1.42	¾×4¼	207-267	10.1
200	219.1	4.1	155634	5.9	260	354	59	36	M20×110	280-360	4.7
8	8.625	600	35038	0.23	10.24	13.94	2.32	1.42	¾×4¼	207-267	10.4
250A	267.4	3.5	193647	6.4	312	402	63	36	M20×120	280-360	5.9
10	10.525	500	43479	0.25	12.28	15.83	2.48	1.42	¾×4¼	207-267	13
250	273	3.5	201843	6.4	315	406	63	36	M20×120	280-360	6
10	10.75	500	45358	0.25	12.4	15.98	2.48	1.42	¾×4¼	207-267	13.2
300A	318.5	2.8	2750	6.4	362	457	64	36	M20×120	280-360	7.8
12	12.525	400	400	0.25	14.25	17.99	2.52	1.42	¾×4¼	207-267	17.2
300	323.9	2.8	226477	6.4	368	462	64	36	M20×120	280-360	8
12	12.75	400	51045	0.25	14.49	18.19	2.52	1.42	¾×4¼	207-267	17.6

- The max. pipe end separation dimension shown is for system layout purposes only. Style 001 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.



Shanghai Vision Mechanical Joint Ltd., Co.,

Address: Jinlan Rd. 221, Jiading Industrial Park, Shanghai, China

Tel: 0086-21-5954-6862, 5954-6811, Fax: 0086-21--5954-3888 Web: www.visionmfr.com

D-1002E