

Style K22 Ready for Installation &One Bolt Rigid Coupling

VISION



Style K22 Ready for Installation one bolt rigid coupling adopt unique structural design. Don't need to disassemble the bolts, nuts and gasket during installation, just put the coupling into the groove end of the pipe directly for installation and tighten the bolts and nuts. It's convenient and fast, the installation efficiency is more than 3 times of the standard groove coupling, also can avoid the loss of bolts and nuts during installation.

The unique design of G06 "E" type gasket can realize the reasonable design of triple sealing, compression and sealing chamber volume, and greatly improve the service life of the joint.

Patent:

- US : US10711929B1
- China : CN202010345015.7(Pending)
- PCT CN/2020/098869

Size:

- DN32-DN200 | 1¼ -8"

Maximum Working Pressure:

- 2.5MPa(365psi)
- 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 dip painting-Standard

Red dip painting or epoxy powder coating- 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.

Hinge:

Heat-treated plated carbon steel

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.



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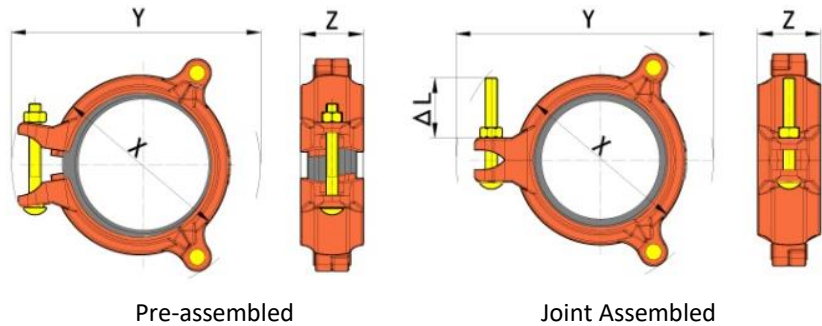
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Dimensions:



Nominal	Actual Outside Diameter	Max. Working Pressure	Max. End Load	Allow. Pipe End Separation	Dimensions						Bolt/Nut	Torque	Weight Approx. (Each)
					Pre-assembled		Joint Assembled						
					X	Y	X	Y	Z	ΔL			
DN Inches	mm Inches	kPa psi	N Lbs.	mm Inches	mm Inches	mm Inches	mm Inches	mm Inches	mm Inches	mm Inches	mm Inches	N.m Ft.Lbs	kg Lbs.
32	42.4	2500	3530	2.54	72	116	66	113	48.0	50	M10x75	40-60	0.49
1½	1.660	365	790	0.10	2.83	4.57	2.60	4.45	1.89	1.97	¾x3	30-45	1.08
40	48.3	2500	4581	2.54	79	121	73	118	48.0	50	M10x75	40-60	0.53
1½	1.900	365	1035	0.10	3.11	4.76	2.87	4.65	1.89	1.97	¾x3	30-45	1.17
50	60.3	2500	7139	3.05	92	146	86	143	49.0	47	M10x75	40-60	0.76
2	2.375	365	1617	0.12	3.62	5.75	3.39	5.63	1.93	1.85	¾x3	30-45	1.67
65	73.0	2500	10463	3.05	107	161	101	158	49.0	57	M10x85	40-60	0.86
2½	2.875	365	2370	0.12	4.21	6.34	3.98	6.22	1.93	2.24	¾x3¾	30-45	1.89
65	76.1	2500	11371	3.05	110	164	104	161	49.0	57	M10x85	40-60	0.88
3OD	3.000	365	2580	0.12	4.33	6.46	4.09	6.34	1.93	2.24	¾x3¾	30-45	1.94
80	88.9	2500	15518	3.05	124	185	118	182	49.0	53	M10x85	40-60	1.13
3	3.500	365	3512	0.12	4.88	7.28	4.65	7.17	1.93	2.09	¾x3¾	30-45	2.49
100	108	2500	22902	4.32	145	202	139	199	51.5	49	M10x85	40-60	1.36
4¼OD	4.250	365	5178	0.17	5.71	7.95	5.47	7.83	2.03	1.93	¾x3¾	30-45	3.00
100	114.3	2500	25652	4.32	151	207	145	204	51.5	49	M10x85	40-60	1.41
4	4.500	365	5805	0.17	5.94	8.15	5.71	8.03	2.03	1.93	¾x3¾	30-45	3.11
125	133.0	2500	34732	4.32	172	238	166	235	53.0	50	M12x90	80-120	1.92
5¼OD	5.250	365	7901	0.17	6.77	9.37	6.54	9.25	2.09	1.97	½x3½	60-90	4.23
125	139.7	2500	38320	4.32	178	245	172	242	53.0	50	M12x90	80-120	1.96
5½OD	5.500	365	8672	0.17	7.01	9.65	6.77	9.53	2.09	1.97	½x3½	60-90	4.32
125	141.3	2500	39203	4.32	180	247	174	244	53.0	50	M12x90	80-120	2.0
5	5.563	365	8872	0.17	7.09	9.72	6.85	9.61	2.09	1.97	½x3½	60-90	4.41
150	159.0	2500	49639	4.32	199	269	193	266	54.0	56	M12x100	80-120	2.39
6¼OD	6.250	365	11198	0.17	7.83	10.59	7.60	10.47	2.13	2.20	½x4	60-90	5.26
150	165.1	2500	53521	4.32	205	275	199	272	54.0	56	M12x100	80-120	2.45
6½OD	6.500	365	12112	0.17	8.07	10.83	7.83	10.71	2.13	2.20	½x4	60-90	5.40
150	168.3	2500	55616	4.32	208	279	202	276	54.0	56	M12x100	80-120	2.47
6	6.625	365	12582	0.17	8.19	10.98	7.95	10.87	2.13	2.20	½x4	60-90	5.44
200A	216.3	2500	91863	4.32	268	354	262	357	63.5	68	M16x120	180-240	4.86
8	8.500	365	20712	0.17	10.55	13.94	10.31	14.06	2.50	2.68	¾x4¾	130-180	10.70
200	219.1	2500	94257	4.32	271	357	265	360	63.5	68	M16x120	180-240	4.94
8	8.625	365	21326	0.17	10.67	14.06	10.43	14.17	2.50	2.68	¾x4¾	130-180	10.88

- Listed pressure on the above table is the max working pressure, the max working pressure and the end load are the sum of internal and external loads based on standard steel tube and standard groove. The site testing pressure can be increased to 1.5 times of the max working pressure, the site testing only can test once.
- The allow pipe end separation is only applicable to the piping layout of the system, K22 is Ready for installation quick rigid coupling, which can't compensate for the heat expansion and cold contraction of the piping system.
- Value of allow pipe end separation is based on the value of each specification of standard roll pipe. These values are the max value, and the value of cut groove maybe increase. Considering of the tolerances, these values should be reduced when used for design and installation, 50% reduced for pipes 80mm and below, 25% reduced for pipes 100mm and above.



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