

QuickVic® Rigid Coupling for Steel

STYLE 107

The patented Style 107 rigid coupling joins 2 – 8"/50 – 200mm standard roll grooved and cut grooved steel pipe.* The joint is assembled without disassembling the bolts, nuts, gasket and housings. The Style 107 coupling requires lubrication only be applied to the sealing lips of the gasket before sliding the coupling on pipe grooved to Victaulic specifications. Refer to Victaulic Field Installation Handbook I-100 for required steps.

The Style 107 provides rigidity with its angle bolt pad design and accommodates up to 580 psi/4000 kPa depending on pipe wall thickness. The Style 107 is rigid and does not accommodate expansion, contraction or angular deflection. Support and hanging requirements correspond to ASME B31.1 Power Piping Code and ASME B31.9 Building Services Piping Code.

* Sizes 2-4"/50-100 mm may be used to join 304/304L and 316/316L Schedule 10 stainless steel pipe with a maximum rated working pressure of 300 psi/2065 kPa.



PATENTED

MATERIAL SPECIFICATIONS

Housing: Ductile iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request.

Housing Coating: Orange enamel.

Optional Coatings:

- Hot dipped galvanized

Gasket:

- **Grade "EHP"**

EHP (Red stripe color code) Temperature range –30°F to +250°F/–34°C to +121°C.

Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services.* UL classified in accordance with ANSI/NSF 61 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade "T" nitrile**

Nitrile (Orange color code). Temperature range –20°F to +180°F/–29°C to +82°C.

Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

* Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

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.

JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

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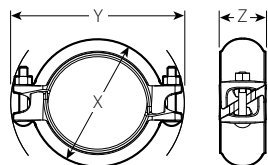


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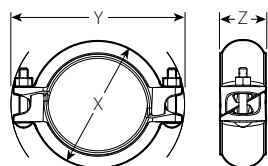
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DIMENSIONS



**STYLE 107 PRE-ASSEMBLED
(INSTALLATION-READY CONDITION)**



STYLE 107 JOINT ASSEMBLED

Size		Allow. Pipe End Sep. †	@ Bolt/Nut	Dimensions – Inches/mm					Aprx. Wgt. Ea.	
Nominal Size Inches/ mm	Actual Outside Diameter Inches/ mm			No. - Size Inches/ mm	Pre-assembled (Installation-ready condition)		Joint Assembled			
					X	Y	X	Y		Z
2	2.375	0.12	2 – ½ x 3 M12 x 3	4.08	6.15	3.66	5.98	1.93	2.7	
50	60.3	3.1		104	156	93	152	49	1.2	
2½	2.875	0.12	2 – ½ x 3 M12 x 3	4.61	6.77	4.16	6.54	1.94	3.1	
65	73.0	3.1		117	172	106	166	49	1.4	
76.1 mm	3.000	0.12	2 – M12 x 3	4.74	6.99	4.38	6.82	1.94	3.3	
	76.1	3.1		120	178	111	173	49	1.5	
3	3.500	0.12	2 – ½ x 3 M12 x 3	5.18	7.42	4.82	7.13	1.94	3.5	
80	88.9	3.1		132	188	122	181	49	1.6	
4	4.500	0.21	2 – ½ x 3 M12 x 3	6.43	8.84	6.03	8.43	2.13	5.1	
100	114.3	5.3		163	225	153	214	54	2.3	
	5.500	0.26	2 – M16 x 3 ¼	7.58	10.52	7.33	10.40	2.13	6.0	
139.7 mm	139.7	6.60		190	264	172	260	54	2.7	
5	5.563	0.21	2 – ⅝ x 3 ¼ M16 x 3 ¼	7.48	10.50	7.06	10.91	2.13	6.8	
125	141.3	5.3		190	267	180	277	54	3.1	
6	6.625	0.21	2 – ⅝ x 3 ¼	8.65	11.54	8.21	11.12	2.13	8.2	
150	168.3	5.3		220	293	209	282	54	3.7	
	6.500	0.2	2 – M16 x 3 ¼	8.7	11.65	8.46	11.57	2.13	7.9	
165.1 mm	165.1	5.08		221	296	215	294	54	3.6	
8	8.625	0.21	2 – ⅝ x 4 M16 x 4	10.55	13.74	10.17	13.62	2.67	9.1	
200	219.1	5.30		268	349	258	346	68	4.1	

† The allowable pipe separation dimension shown is for system layout purposes only. Style 107 QuickVic rigid couplings are considered rigid connections and will not accommodate expansion or contraction of the piping system.

@ Number of bolts required equals number of housing segments.

WARNING: Depressurize and drain the piping system before attempting to install, remove or adjust any Victaulic piping products.

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PERFORMANCE

ANSI STANDARD

Size		Schedule 10			Schedule 40		
Nominal Inches/mm	Actual Outside Diameter Inches/mm	Wall Thick. Inches/mm	Max. * Joint Work. Press. psi/kPa	Max. * Permis. End Load Lbs./N	Wall Thick. Inches/mm	Max. * Joint Work. Press. psi/kPa	Max. * Permis. End Load Lbs./N
2 50	2.375 60.3	0.109 2.77	500 3450	2215 9857	0.154 3.91	580 4000	2570 11437
2½ 65	2.875 73.0	0.120 3.05	400 2750	2600 11570	0.203 5.15	580 4000	3765 16754
3 80	3.500 88.9	0.120 3.05	400 2750	3850 17133	0.216 5.49	580 4000	5580 24831
4 100	4.500 114.3	0.120 3.05	400 2750	6360 28302	0.237 6.02	580 4000	9220 41029
5 125	5.563 141.3	0.134 3.4	300 2070	7290 32428	0.258 6.55	580 4000	14100 62720
6 150	6.625 168.3	0.134 3.40	360 2480	12410 55225	0.280 7.11	580 4000	19990 88956
8 200	8.625 219.1	0.148 3.76	250 1725	14607 64975	0.322 8.18	580 4000	33887 150737

* Working Pressure and End Load are total from all internal and external loads grooved in steel pipe in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

DIN STANDARD

Size		Normal DIN Wall Pipe			Other DIN Wall Pipe		
Nominal Inches Actual mm	Actual Outside Diameter Inches mm	Wall Thick. Inches mm	Max. * Joint Work. Press. psi/kPa	Max. * Permis. End Load Lbs./N	Wall Thick. Inches mm	Max. * Joint Work. Press. psi/kPa	Max. * Permis. End Load Lbs./N
2 50	2.375 60.3	0.091 2.3	500 3450	2215 9857	0.157 4.0	580 4000	2570 11437
76.1 mm	3.000 76.1	0.102 2.6	400 2760	2830 12594	1.177 4.5	580 4000	4100 18245
3 80	3.500 88.9	0.114 2.9	400 2760	3850 17133	0.197 5.0	580 4000	5580 24831
4 100	4.500 114.3	0.126 3.2	400 2760	6360 28302	0.220 5.6	580 4000	9220 41029
139.7 mm	5.5 139.7	0.177 4.5	300 2060	7130 31700	0.217 5.5	580 4000	13780 61300
165.1 mm	6.5 165.1	0.177 4.5	300 2060	9955 44280	0.217 5.5	580 4000	19250 85630
6 150	6.625 168.3	0.157 4.0	360 2480	12410 55225	0.280 7.1	580 4000	19990 88956
8 200	8.625 219.1	0.177 4.5	250 1725	14607 64975	0.315 8.0	580 4000	33887 150737

* Working Pressure and End Load are total from all internal and external loads grooved in steel pipe in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

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GENERAL NOTES

NOTE: When assembling Style 107 QuickVic rigid couplings onto end caps, take additional care to make certain the end cap is fully seated against the gasket end stop. For Style 107 QuickVic rigid couplings, use Victaulic No. 60 end caps containing the “QV” or “QV/EZ” markings on the inside face. Victaulic No. 460-SS stainless steel endcaps shall not be used with Style 107 QuickVic rigid couplings. Non-Victaulic fittings shall not be used with Style 107 QuickVic rigid couplings.

INSTALLATION

Reference should always be made to the I-100 Victaulic Field Installation Handbook. Installation instructions are included with each shipment of Victaulic products and are available in PDF format on our website at www.victaulic.com.

WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.



For complete contact information, visit www.victaulic.com

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