

Expansion Joint Coupling

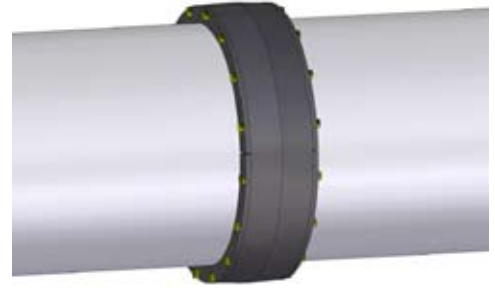
STYLE 152A

Large diameter pulverized coal/limestone coupling with 4 degrees of deflection capability. Also can be utilized for expansion and contraction or rotation, or a combination of deflection, expansion, contraction, and rotation. Also useful in coupling pipe to ceramic lined elbows or equipment often involving differing pipe and fitting outside diameters.

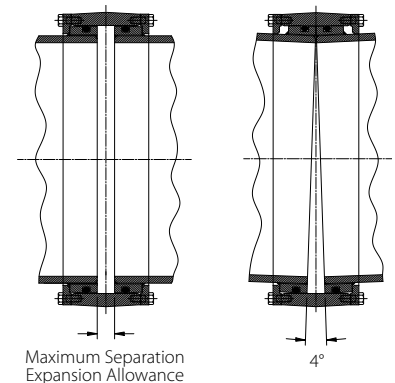
The Style 152A coupling is designed to be used in industrial applications such as new or retrofit coal-fired electric generation facilities and bridges that require a coupling with this level of angular deflection and/or expansion/contraction capability.

Pipe ends only need to be separated $\frac{5}{8}$ "/16mm to replace seals.

Optional anti-rotation kit available.



PATENT PENDING



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: Polyphenylene sulfide blend (PPS) heat fused, prime and top coats

End Rings: Ductile iron

End Ring Coating: Black enamel

Gasket/Seal: Silicone Grade "L" recommended for dry heat, air without hydrocarbons. Temperature range -30° to $+350^{\circ}\text{F}$ / -34° to $+177^{\circ}\text{C}$.

Vic-Rings: Standard: Carbon steel. Optional: Ductile iron.

Bolts/Nuts: Heat-treated plated carbon steel, SAE Grade 8, yellow zinc electro-plated..

JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

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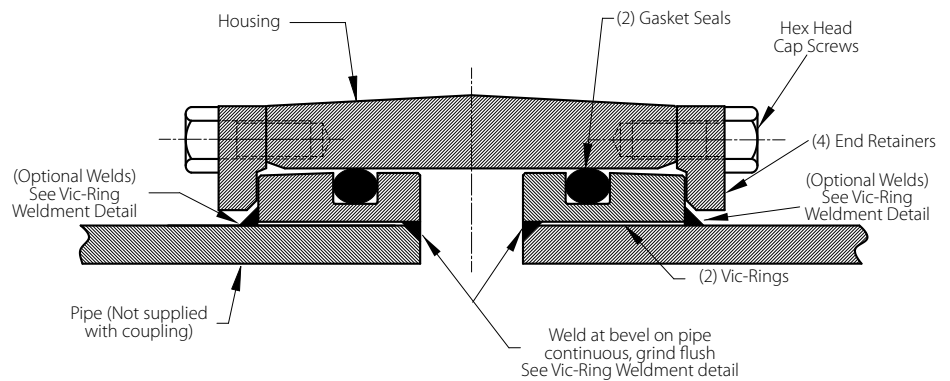


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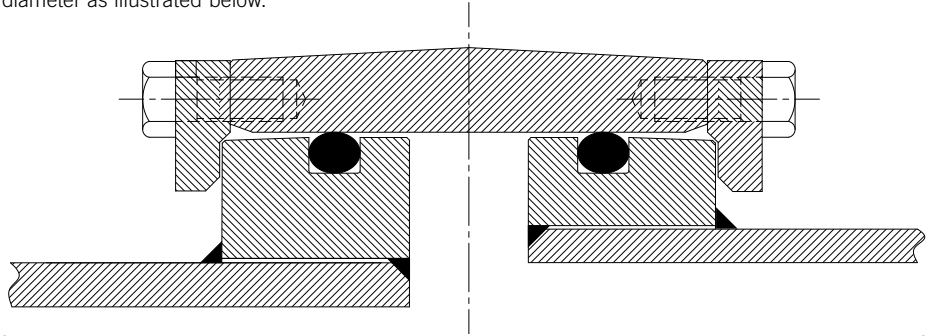
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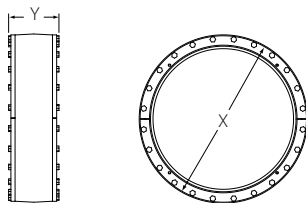
NOMENCLATURE



Can be ordered with Vic-rings that permit joining of pipe and fittings each with a different outside diameter as illustrated below.



DIMENSIONS



TYPICAL FOR ALL SIZES

Size		Max. Work Pressure*	Max. End Load*	Expansion Allow.	Bolt Size and Length	Bolts	Deflection from Centerline †		Dimensions – Inches/mm		Approx. Wgt. Each
Nominal Size Inches mm	Actual Out. Dia. Inches mm	PSI kPa	Lbs. N	Inches mm	Inches	No.	Per Coupling Degrees	Pipe In/Ft. mm/m	X	Y	Lbs. kg
16 400	16.000 406.4	50 345	15033 66900	1.23 31.2	½ – 13 x 1½	36	4°	.838 69.8	19.50 495	7.25 184	125.0 56.7
18 450	18.000 457.2	50 345	18665 83060	1.35 34.3	½ – 13 x 1½	40	4°	.838 69.8	21.50 546	7.38 187	142.0 64.4
20 500	20.000 508.0	50 345	22691 100975	1.48 37.6	½ – 13 x 1½	44	4°	.838 69.8	23.50 597	7.50 191	158.0 71.7
530	530	50 345	25406 113020	1.55 39.4	½ – 13 x 1½	44	4°	.838 69.8	24.75 628	7.57 192.3	168.0 76.1
22 550	22.000 559.0	50 345	27109 120635	1.60 40.6	½ – 13 x 1½	48	4°	.838 69.8	25.50 648	7.62 194	175.0 79.4
580	580	50 345	29153 129679	1.65 41.9	½ – 13 x 1½	48	4°	.838 69.8	26.38 670	7.70 196	181 82.2
24 600	24.000 609.6	50 345	31919 142040	1.72 43.7	½ – 13 x 1½	52	4°	.838 69.8	27.50 698	7.75 197	192.0 87.1
630	630	50 345	34031 151377	1.79 45.5	½ – 13 x 1½	52	4°	.838 69.8	28.31 719	7.82 199	200 20.7
26 660	26.000 660.4	50 345	37122 165200	1.85 47.0	½ – 13 x 1½	56	4°	.838 69.8	29.50 749	7.88 200	210.0 95.3
680	680	50 345	39871 177375	1.92 48.8	½ – 13 x 1½	56	4°	.838 69.8	30.5 775	7.94 201.6	219.0 99.3
28 700	28.000 711.2	50 345	42718 190100	1.98 50.3	½ – 13 x 1½	60	4°	.838 69.8	31.50 800	8.00 203	228.0 103.4
30 760	30.000 762.0	50 345	48707 216750	2.10 53.3	½ – 13 x 1½	64	4°	.838 69.8	33.50 851	8.12 206	246.0 111.6

* Working Pressure and End Load are total from all internal and external loads.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown.

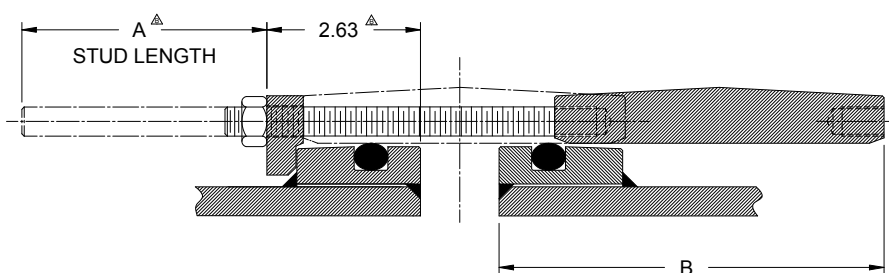
† Allowable Pipe End Separation and Deflection figures show the maximum nominal range of movement available at each joint.

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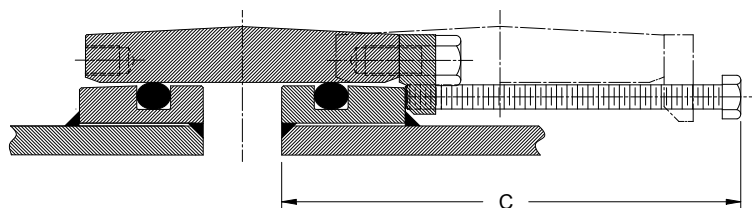
STYLE 152A

DIMENSIONS – ASSEMBLY/DIS-ASSEMBLY

Size		Dimensions – Inches/mm		
Nominal Size Inches mm	Actual Out. Dia. Inches mm	A	B	C
16 400	16.000 406.4	6.50 165.1	6.50 165	8.38 213
18 450	18.000 457.2	6.50 165.1	6.63 168	8.38 213
20 500	20.000 508.0	7.00 177.8	6.75 171	8.38 213
530	530	7.00 177.8	6.75 171	8.38 213
22 550	22.000 559.0	7.00 177.8	6.88 175	8.38 213
580	580	7.00 177.8	6.88 175	8.38 213
24 600	24.000 609.6	7.00 177.8	7.00 178	8.88 226
630	630	7.00 177.8	7.00 178	8.88 226
26 660	26.000 660.4	7.50 190.5	7.13 181	8.88 226
680	680	7.50 190.5	7.13 181	8.88 226
28 700	28.000 711.2	7.50 190.5	7.25 184	8.88 226
30 760	30.000 762.0	7.50 190.5	7.38 187	8.88 226



▲ EXPANSION JOINT COUPLING FIELD ASSEMBLY



▲ EXPANSION JOINT COUPLING FIELD DIS-ASSEMBLY

Installation Kit Hardware (appropriate size Complete hardware Kit Provided with Each coupling Order)

Bill of Material		Quantity/Size/Length																					
Item	Description	Qty	16"	Qty	18"	Qty	20"	530mm	Qty	22"	Qty	580mm	Qty	24"	Qty	630mm	Qty	26"	680mm	Qty	28"	Qty	30"
1	Threaded Rod, ½" – 13UNC	6	6½" Lg 165mm	6	6½" Lg 165mm	6	7" Lg 178mm	7" Lg 178mm	6	7" Lg 178mm	6	7" Lg 178mm	6	7" Lg 178mm	6	7½" Lg 191mm	6	7½" Lg 191mm	7½" Lg 191mm	6	7½" Lg 191mm	6	7½" Lg 191mm
2	Hex Head Bolt, fully threaded ¾" – 16UNC	4	6" Lg 152mm	4	6" Lg 152mm	4	6" Lg 152mm	6" Lg 152mm	4	6" Lg 152mm	4	6" Lg 152mm	4	6½" Lg 165mm	4	6½" Lg 165mm	4	6½" Lg 165mm	6½" Lg 165mm	4	6½" Lg 165mm	4	6½" Lg 165mm
3	Hex Nut, ½" – 13UNC	6	–	6	–	6	–	6	6	–	6	6	6	–	6	6	6	–	6	6	–	6	–

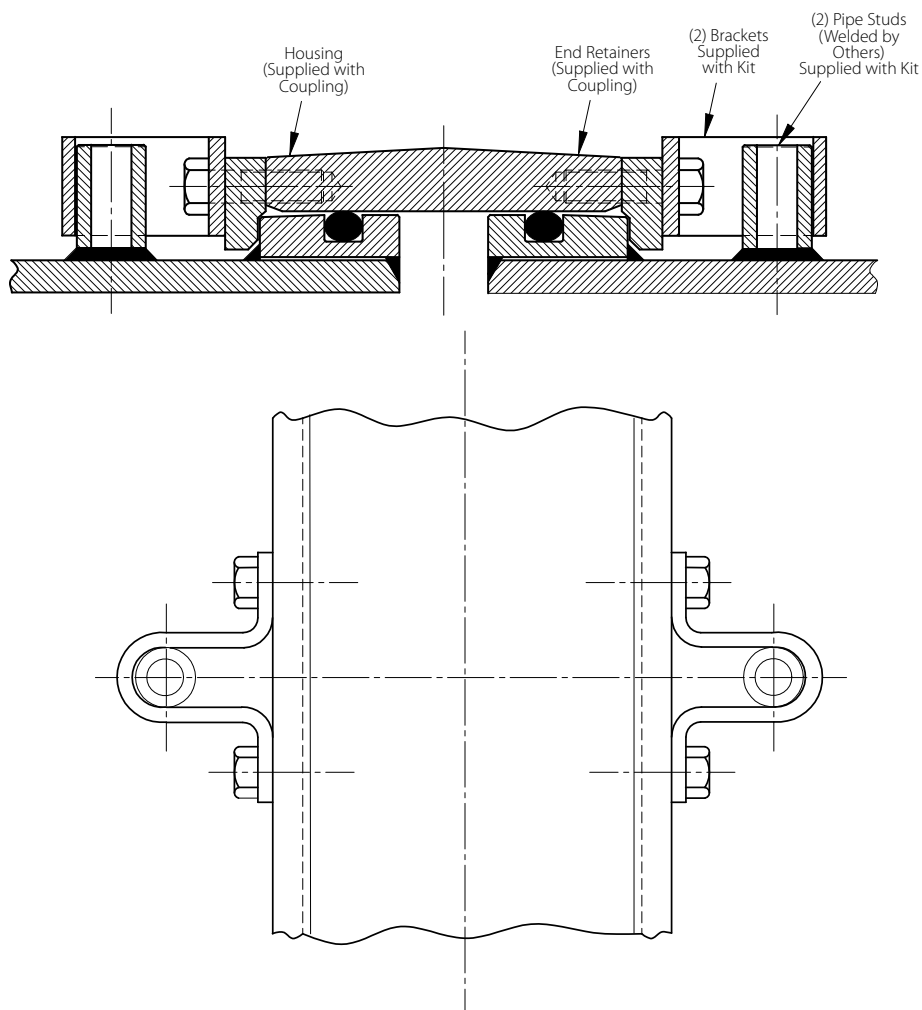
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ANTI-ROTATION KIT

Optional anti-rotation kit contains:

- (2) $\frac{3}{4}$ NPS steel pipe stubs
- (2) Anti-rotation steel brackets
- (4) $\frac{1}{2}$ -13 grade 8 hex. cap screws



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.



WCAS-753MMD

For complete contact information, visit www.victaulic.com

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