# Roust-A-Bout Coupling for Plain End Pipe

# Style 99







1 – 12"/DN25 – DN300 sizes

14 - 18"/DN350 - DN450 sizes

# 1.0 PRODUCT DESCRIPTION

# Available Sizes:

• 1 - 18"/DN25 - DN450

# Application:

- Joins plain and beveled end pipe and Victaulic plain end fittings
- Pipe is secured together by heavy jaws, which are set into the housing

# **Pipe Materials:**

- Carbon steel
- Stainless steel
- Aluminum

## NOTE:

• Roust-A-Bout Style 99 couplings are not designed for use on plastic pipe, pipe with brittle linings, cast or ductile iron pipe, nor any pipe with a surface hardness greater than 150 Brinell.

# 2.0 CERTIFICATION/LISTINGS



• Download <u>publication 10.01</u> for Fire Protection Certifications/Listings Reference Guide.

#### ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.	Location	Spec Section	Paragraph	
Submitted By	Date	Approved	Date	

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# 3.0 SPECIFICATIONS – MATERIAL

**Housing:** Ductile iron conforming to ASTM A536, Grade 65-45-12. Ductile iron conforming to ASTM A395, Grade 65-45-15, is available upon special request.

## **Housing Coating:**

Orange enamel.

Optional: Hot dipped galvanized.

Optional: Contact Victaulic with your requirements for other coatings.

## Jaws:

Carbon steel, case hardened, electroplated, except sizes 1"/DN25, DN65 and DN125, which utilize stainless steel, Type 416, hardened.

## Gaskets: (specify choice<sup>1</sup>)

## Grade "E" EPDM

EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C. May be specified 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 +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES OR STEAM SERVICES.** 

## Grade "T" Nitrile

Nitrile (Orange color code). Temperature range -20°F to +180°F/-29°C to +82°C. May be specified for oil related services, including air with oil vapor, this gasket may be specified for temperatures rated up to +180°F/+82°C. For water related services, this gasket may be specified for temperatures rated up to +150°F/+66°C. For oil free, dry air services, this gasket may be specified for temperatures rated up to +140°F/+60°C. NOT **COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.** 

## Others

For alternate gasket selection, reference publication 05.01: Victaulic Seal Selection Guide.

<sup>1</sup> 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 <u>Victaulic Seal Selection Guide</u> for specific gasket service recommendations and for a listing of services which are not recommended.

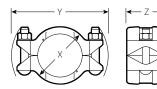
## **Bolts/Nuts:**

Standard: Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 (metric) Class 9.8 (M10-M16) and Class 8.8 (M20 and greater). Carbon steel hex nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial – heavy hex nuts) and ASTM A563M Class 9 (metric – hex nuts). Track bolts and hex nuts are zinc electroplated per ASTM B633 ZN/FE5, finish Type III (imperial) or Type II (metric).

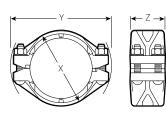
Washers (sizes 6"/DN150 and larger): Hardened steel washers meeting ASTM F436 Type 3 (weathering steel).



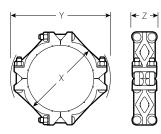
# 4.0 **DIMENSIONS**



1 – 6"/DN25 – DN150 sizes



8 – 12"/DN200 – DN300 sizes

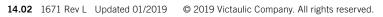


14 - 18"/DN350 - DN450 sizes

Si	ze	Bol	t/Nut²		Dimensions		
Nominal inches	Actual Outside Diameter inches	Qty.	Size	<b>X</b> inches	<b>Y</b> inches	<b>Z</b> inches	Aprox. Weight Ib
DN	mm		inches	mm	mm	mm	kg
1 DN25	1.315 33.7	2	³⁄8 x 2	2.63 67	4.25 108	2.25 57	1.7 0.8
1½ DN40	1.900 48.3	2	½ x 2½	3.25 83	5.50 140	2.88 73	3.6 1.6
2 DN50	2.375 60.3	2	5% x 3 ¼	3.75 95	6.75 171	3.38 86	5.3 2.4
21⁄2	2.875 73.0	2	5% x 3 ¼	4.25 108	7.13 181	3.38 86	5.7 2.5
DN65	3.000 76.1	2	½ x 2 ¾	4.75 121	6.25 159	2.75 70	4.4 2.0
3 DN80	3.500 88.9	2	<sup>3</sup> ⁄ <sub>4</sub> x 4 <sup>1</sup> ⁄ <sub>4</sub>	5.00 127	8.50 216	3.38 86	8.7 3.9
3½ DN90	4.000 101.6	2	<sup>3</sup> ⁄4 x 4 <sup>1</sup> ⁄4	5.50 140	9.25 235	3.63 92	10.6 4.8
4 DN100	4.500 114.3	2	<sup>3</sup> ⁄ <sub>4</sub> x 4 <sup>1</sup> ⁄ <sub>4</sub>	6.13 156	10.00 254	4.00 102	12.8 5.8
DN125	5.500 139.7	2	<sup>3</sup> ⁄4 x 5	7.88 200	10.75 260	3.25 83	9.0 4.1
5	5.563 141.3	2	7∕8 x 5	7.25 184	11.38 289	4.38 111	17.3 7.8
6 DN150	6.625 168.3	2	1 x 6 <sup>3</sup>	8.50 216	13.38 340	4.38 111	23.2 10.5
	6.500 165.1	2	1 x 6 <sup>3</sup>	8.38 213	13.25 337	4.38 111	22.2 10.1
8 DN200	8.625 219.1	4	7⁄8 x 5 <sup>3</sup>	10.88 276	14.38 365	5.00 127	37.2 16.9
10 DN250	10.750 273.0	4	7⁄8 x 5 <sup>3</sup>	13.38 340	16.38 416	5.00 127	48.2 21.9
12 DN300	12.750 323.9	4	1 x 6½ <sup>3</sup>	15.50 394	19.63 499	5.13 130	60.0 27.2
14 DN350	14.000 355.6	8	1 x 6½ <sup>3</sup>	16.75 425	20.75 527	5.38 137	89.0 40.4
16 DN400	16.000 406.4	8	1 x 6½ <sup>3</sup>	19.00 483	22.63 575	5.38 137	105.0 47.6
18 DN450	18.000 457.0	8	1 x 6½ <sup>3</sup>	21.00 533	23.50 597	5.38 137	125.0 56.7

<sup>2</sup> Metric thread size bolts (plated) are available (color coded) for all coupling sizes upon request. Contact Victaulic for details.

<sup>3</sup> Supplied with flat washers.





# 5.0 PERFORMANCE

## Pressure Ratings and End Loads Carbon Steel Pipe

Si	ze	Pipe Wall	Thickness <sup>4</sup>	_	Maxir	num
Nominal inches	Actual Outside Diameter inches	inches	Schedule	Required Bolt Torque⁵ Lb • Ft.	Working Pressure <sup>6</sup> psi	End Load <sup>6</sup> Ib
DN	mm	mm	Number	N•m	kPa	N
		0.179 4.55	80		—	_
1	1.315	0.133 3.38	40	35	600 4137	800 3560
DN25	33.7	0.109 2.77	10	48	600 4137	800 3560
		0.065 1.65	5		400 2758	550 2450
		0.200 5.08	80		750 5171	2100 9345
11/2	1.900	0.145 3.68	40	60	750 5171	2100 9345
DN40	48.3	0.109 2.77	10	81	600 4137	1700 7565
	-	0.065 1.65	5		400 2758	1100 4895
		0.218 5.54	80	150	750 5171	3300 14685
2	2.375	0.154 3.91	40		750 5171	3300 14685
DN50	60.3	0.109 2.77	10	203	400 2758	1800 8010
	-	0.065 1.65	5		200 1379	900 4005
		0.276 7.01	80		600 4137	3890 17310
<b>2</b> <sup>1</sup> / <sub>2</sub>	2.875	0.203 5.16	40	150	600 4137	3890 17310
	73.0	0.120 3.05	10	203	300 2068	1900 8455
		0.083 2.11	5		150 1034	1000 4450
		0.300 7.62	80		600 4137	5770 25675
3	3.500	0.216 5.49	0.216 40 200	600 4137	5770 25675	
DN80	88.9	0.120 3.05	10	271	225 1551	2160 9610
		0.083 2.11	5		125 862	1200 5340

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.10.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

#### NOTES

• Torque ratings must be applied at installation.

• Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼"/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.

- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.



# 5.0 PERFORMANCE (Continued)

## Pressure Ratings and End Loads Carbon Steel Pipe

S	ize	Pipe Wall	Thickness <sup>4</sup>		Maxi	mum
Nominal	Actual Outside Diameter			Required Bolt Torque ⁵	Working Pressure <sup>6</sup>	End Load <sup>6</sup>
inches DN	inches mm	inches mm	Schedule Number	Lb∙Ft. N∙m	psi kPa	lb N
		0.318 8.08	80		500 3447	6280 27945
<b>3</b> <sup>1</sup> / <sub>2</sub>	4 000	4.000 5.74 40 200	500 3447	6280 27945		
DN90	101.6	0.120 3.05	10	271	200 1379	2500 11125
		0.083 2.11	5		100 689	1250 5565
		0.337 8.56	80		450 3103	7155 31840
4	4.500	0.237 6.02	40	200	450 3103	7155 31840
DN100	114.3	0.120 3.05	10	271	175 1207	2800 12460
		0.083 2.11	5		60 414	950 4230
		0.375 9.53	80		350 2413	8500 37825
5	5.563	0.258 6.55	40	250	350 2413	8500 37825
	141.3	0.134 3.40	10	339	150 1034	3600 16020
		0.109 2.77	5		75 517	1800 8010
		0.432 10.97	80		300 2068	10340 46015
6	6.625	0.280 7.11	40	250	300 2068	10340 46015
DN150	168.3	0.134 3.40	10	339	100 689	3500 15575
		0.109 2.77	5		75 517	2600 11570
		0.250 6.35	_		300 2068	9955 44300
	6.500 165.1	0.200 5.08	_	250 339	175 1207	6000 26700
		0.150 3.81	_		100 689	3500 15575

 $^4$   $\,$   $\,$  Pipe wall thickness schedule as established in ASME/ANSI B36.10.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

## NOTES

- Torque ratings must be applied at installation.
- Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼''/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.
- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.



# 5.0 PERFORMANCE (Continued)

## Pressure Ratings and End Loads Carbon Steel Pipe

S	ize	Pipe Wall	Thickness <sup>4</sup>		Maximum	
Nominal	Actual Outside Diameter			Required Bolt Torque ⁵	Working Pressure <sup>6</sup>	End Load <sup>6</sup>
inches DN	inches mm	inches mm	Schedule Number	Lb∙Ft. N∙m	psi kPa	lb N
		0.322 8.18	40		250 1724	14600 64970
8	8.625	0.277 7.04	30	250	200 1379	11700 52065
DN200	219.1	0.148 3.76	10	339	100 689	6000 26700
		0.109 2.77	5		50 345	3000 13350
		0.365 9.27	40		250 1724	22700 101015
10	10.750	0.307 7.80	30	300 407	175 1207	15900 70755
DN250	273.0	0.165 4.19	10		75 517	6800 30260
		0.134 3.40	5		50 345	4500 20025
		0.375 9.53	STD		250 1724	31900 141955
12	12.750	0.330 8.38	30	350	150 1034	19100 84995
DN300	323.9	0.180 4.57	10	475	100 689	12700 56515
		0.165 4.19	5		75 517	9500 42275
14 DN350	14.000 355.6	0.375 9.53	STD	350 475	200 1379	30800 137060
16 DN400	16.000 406.4	0.375 9.53	STD	350 475	150 1034	30200 134390
18 DN450	18.000 457.2	0.375 9.53	STD	+	+	+

+ Contact Victaulic for more details.

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.10.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

#### NOTES

- Torque ratings must be applied at installation.
- Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼''/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.
- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.



# 5.1 PERFORMANCE

<b>Pressure Ratings and</b>	End Loads	Stainless	Steel	Pipe
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S	ize	Pipe Wall	Thickness <sup>4</sup>		Maxir	num
Nominal	Actual Outside Diameter			Required Bolt Torque⁵	Working Pressure <sup>6</sup>	End Load <sup>6</sup>
inches DN	inches mm	inches mm	Schedule Number	Lb∙Ft. N∙m	psi kPa	lb N
	0.133 3.38	40		600 4137	800 3560	
1 DN25	1.315 33.7	0.109 2.77	10	35 48	400 2758	550 2450
		0.065 1.65	5		250 1724	350 1555
		0.145 3.56	40	60 81	500 3447	1400 6230
1 <sup>1</sup> / <sub>2</sub> DN40		0.109 2.77	10		400 2758	1100 4895
		0.065 1.65	5	N/R	N/R	N/R
		0.154 3.91	40	150	500 3447	2200 9790
2 DN50	2.375 60.3	0.109 2.77	10	203	400 2758	1800 8010
		0.065 1.65	5	N/R	N/R	N/R
		0.203 5.16	40	150	400 2758	2500 11125
21/2	2.875 73.0	0.120 5.16	10	203	250 1724	1500 6675
		0.083 2.11	5	N/R	N/R	N/R
		0.216 5.49	40	200	400 2758	3800 16910
3 DN80	3.500 88.9	0.120 3.05		271	200 1379	1900 8455
		0.083 2.11	5	N/R	N/R	N/R

N/R = Not recommended

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.19.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

NOTES

- Torque ratings must be applied at installation.
- Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼''/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.
- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown.



# 5.1 **PERFORMANCE** (Continued)

## Pressure Ratings and End Loads Stainless Steel Pipe

S	ize	Pipe Wall	Fhickness <sup>4</sup>		Maxi	mum
Nominal	Actual Outside Diameter			Required Bolt Torque⁵	Working Pressure <sup>6</sup>	End Load <sup>6</sup>
inches DN	inches mm	inches mm	Schedule Number	Lb∙Ft. N∙m	psi kPa	lb N
		0.226 5.74	40	200	300 2068	3700 16465
3 <sup>1</sup> / <sub>2</sub> DN90	4.000 101.6	0.120 3.05	10	271	150 1034	1900 8455
		0.083 2.11	5	N/R	N/R	N/R
		0.237 6.02	40	200	250 1724	3900 17355
4 DN100	4.500 114.3	0.120 3.05	10	271	80 552	1300 5785
		0.083 2.11	5	N/R	N/R	N/R
		0.258 6.55	40	250	200 1379	4800 21360
5	5.563 141.3	0.134 3.40	10	339	75 517	1800 8010
		0.109 2.77	5	N/R	N/R	N/R
		0.280 7.11	40	250	200 1379	6800 30260
6 DN150	6.625 168.3	0.134 3.40	10	339	75 517	2600 11570
		0.109 2.77	5	N/R	N/R	N/R
		0.280 7.11	40	250	200 1379	6800 30260
	6.500 165.1	0.134 3.40	10	339	75 517	2600 11570
		0.109 2.77	5	N/R	N/R	N/R

N/R = Not recommended

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.19.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

NOTES

- Torque ratings must be applied at installation.
- Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼'/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.
- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.



# 5.1 **PERFORMANCE** (Continued)

S	ize	Pipe Wall	Thickness <sup>4</sup>		Maximum	
Nominal	Actual Outside Diameter			Required Bolt Torque⁵	Working Pressure <sup>6</sup>	End Load <sup>6</sup>
inches DN	inches mm	inches mm	Schedule Number	Lb∙Ft. N∙m	psi kPa	lb N
	0.322 8.18	40		200 1379	11000 48950	
8 DN200	8.625 219.1	0.148 3.76	10	250 339	75 517	4400 19580
	0.109 2.77	5	_	25 172	1460 6495	
		0.365 9.27	40		100 689	9000 40050
10 DN250	10.750 273.0	0.165 4.19	10	300 407	50 345	4500 20025
		0.134 3.40	5		25 172	2250 10010
		0.406 10.31	40		100 689	12750 56735
12 DN300	12.750 323.9	0.180 4.67	10	350 475	50 345	6400 28480
		0.156 3.96	5		25 172	3200 14240

## Pressure Ratings and End Loads Stainless Steel Pipe

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.19.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

#### NOTES

• Torque ratings must be applied at installation.

• Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼''/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.

• Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.

• WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.



# 5.2 PERFORMANCE

## Pressure Ratings and End Loads Aluminum Pipe<sup>7</sup>

S	ize	Pipe Wall	Thickness <sup>4</sup>		Maxir	num
Nominal	Actual Outside Diameter			Required Bolt Torque <sup>5</sup>	Working Pressure <sup>6</sup>	End Load <sup>6</sup>
inches DN	inches mm	inches mm	Schedule Number	Lb∙Ft. N∙m	psi kPa	lb N
	0.179 4.55	80	N/R	N/R	N/R	
1	1.315	0.133 3.38	40		600 4137	800 3560
DN25	33.7	0.109 2.77	10	35 48	300 2068	400 1780
		0.065 1.65	5		100 689	135 601
		0.200 5.08	80		500 3447	1400 6230
11/2 1.900	0.145 3.56	40	60 81	400 2758	1100 4895	
DN40	48.3	0.109 2.77	10		300 2068	825 3671
		0.065 1.65	5	N/R	N/R	N/R
		0.218 5.54	80		400 2758	1800 8010
2	2.375	0.154 3.91	40	150 203	300 2068	1300 5785
DN50	60.3	0.109 2.77	10		200 1379	900 4005
		0.065 1.65	5	N/R	N/R	N/R
		0.276 7.01	80		350 2413	2200 9790
<b>2</b> <sup>1</sup> / <sub>2</sub>	2.875	0.203 5.16	40	150 203	275 1896	1725 7676
	73.0	0.120 5.16	10		150 1034	1000 4450
		0.083 2.11	5	N/R	N/R	N/R

N/R = Not recommended

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.10.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

<sup>7</sup> Aluminum Pipe – Alloy 6063-T6 or 6061-T6 in Schedule 80 and 40; Alloy 6063-T6 in Schedule 30, 20, 10 and 5.

#### NOTES

- Torque ratings must be applied at installation.
- Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼'/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.
- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.



# 5.2 PERFORMANCE (Continued)

## Pressure Ratings and End Loads Aluminum Pipe<sup>7</sup>

S	ize	Pipe Wall	Thickness <sup>4</sup>		Maxir	num
Nominal	Actual Outside Diameter			Required Bolt Torque⁵	Working Pressure <sup>6</sup>	End Load <sup>6</sup>
inches DN	inches mm	inches mm	Schedule Number	Lb∙Ft. N∙m	psi kPa	lb N
		0.300 7.62	80		300 2068	2880 12816
3	3.500	0.216 5.49	40	200 271	200 1379	1920 8544
DN80	88.9	0.120 3.05	10		100 689	960 4272
		0.083 2.11	5	N/R	N/R	N/R
	3 <sup>1</sup> / <sub>2</sub> 4.000	0.318 8.08	80	200 271	250 1724	3100 13795
31/2		0.226 5.74	40		200 1379	2500 11125
DN90	101.6	0.120 3.05	10		100 689	1250 5563
		0.083 2.11	5	N/R	N/R	N/R
		0.337 8.56	80		200 1379	3200 14240
4	4.500	0.237 6.02	40	200 271	150 1034	2400 10680
DN100	114.3	0.120 3.05	10		50 345	800 3560
		0.083 2.11	5	N/R	N/R	N/R
		0.375 9.53 80		150 1034	3600 16020	
5	5.563	0.258 6.55	40	250 339	100 689	2400 10680
	141.3	0.134 3.40	10		50 345	1200 5340
		0.109 2.77	5	N/R	N/R	N/R

N/R = Not recommended

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.10.

- <sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.
- <sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.
- <sup>7</sup> Aluminum Pipe Alloy 6063-T6 or 6061-T6 in Schedule 80 and 40; Alloy 6063-T6 in Schedule 30, 20, 10 and 5.

#### NOTES

- Torque ratings must be applied at installation.
- Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼"/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.
- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.

# 5.2 PERFORMANCE (Continued)

## Pressure Ratings and End Loads Aluminum Pipe<sup>7</sup>

S	ize	Pipe Wall	Thickness <sup>4</sup>		Maxir	num
<b>Nominal</b> inches DN	Actual Outside Diameter inches mm	inches mm	Schedule Number	Required Bolt Torque⁵ Lb • Ft. N • m	Working Pressure <sup>6</sup> psi kPa	End Load <sup>6</sup> Ib N
6 6.625 DN150 168.3		0.432 10.97	80		150 1034	5200 23140
	6.625	0.280 7.11	40	250	100 689	3500 15575
	168.3	0.134 3.40	10	339	50 345	1750 7788
		0.109 2.77	5		35 241	1225 5451
		0.322 8.18	40	250 339	150 1034	9000 40050
8 8.625	8.625	0.277 7.04	30		100 689	6000 26700
DN200	219.1	0.250 6.35	20		75 517	4500 20025
		0.148 3.76	10		50 345	3000 13350
		0.356 9.27	40		100 698	9000 40050
10	10.750	0.307 7.80	30	300	75 517	6300 28035
DN250	273.0	0.250 6.35	20	407	50 345	4500 20025
		0.165 4.19	10		25 172	2250 10013
		0.406 10.31	40		100 689	12800 56960
12	12.750	0.330 8.38	30	300 407	75 517	9500 42275
DN300	323.9	0.250 6.35	20		50 345	6000 26700
		0.180 4.67	10		25 172	3150 14018

<sup>4</sup> Pipe wall thickness schedule as established in ASME/ANSI B36.10.

<sup>5</sup> Bolt torque required for installing Victaulic plain end couplings to achieve Maximum Working Pressure and Maximum End Loads listed.

<sup>6</sup> Working Pressure and End Load are total, from all internal and external loads, based on coupling properly assembled, with bolts fully torqued to listed specifications, on plain end or beveled end standard weight (ANSI) steel pipe and Victaulic plain end fittings. Couplings are designed to be used with plain end pipe and Victaulic plain end fittings only.

<sup>7</sup> Aluminum Pipe – Alloy 6063-T6 or 6061-T6 in Schedule 80 and 40; Alloy 6063-T6 in Schedule 30, 20, 10 and 5.

#### NOTES

• Torque ratings must be applied at installation.

• Roust-A-Bout couplings, when sufficiently pressurized, will allow pipe to separate slightly as grips set into pipe. For properly assembled and torqued couplings, this separation should not exceed ¼"/6.4 mm. This should be considered for installations in tightly confined areas. Style 99 couplings are not designed to provide linear or angular movement.

- Roust-A-Bout Style 99 couplings are designed for use with plain end or beveled end pipe and Victaulic plain end fittings only.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 11/2 times the figures shown.



# 6.0 NOTIFICATIONS

# **WARNING**

Style 99 Roust-A-Bout couplings must be assembled with nuts tightened to full torque specifications.



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

## 7.0 REFERENCE MATERIALS

05.01: Victaulic Seal Selection Guide 26.01: Victaulic Design Data 29.01: Victaulic Terms and Conditions/Warranty I-100: Victaulic Field Installation Handbook

#### User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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#### 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.

#### Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, 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. Trademarks
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