## Certificate of Compliance

This certificate is issued for the following:

## Polyethylene (PE) Pipe and Fittings for Underground Fire Protection Service

(see attached listing)<br>\section*{Prepared for:}<br>ISCO Industries LLC<br>100 Witherspoon St 2 West Louisville, KY 40202 USA<br>ISCO Industries 10711 Freeport Court Louisville, KY 40258<br>USA<br>\section*{Manufactured at:}<br>ISCO Industries ISCO Industries<br>701 Mid Atlantic Pkwy 305 North $7^{\text {th }}$ Street<br>Martinsburg, WV 25404 Corsicana, TX 75110<br>USA<br>ISCO Industries<br>4725 Flightline Dr<br>Kingman, AZ 86401<br>USA

Approval Standard: FM 1613 (October 2022)

Approval Identification: PR460452
Revision Request: RR237800

Approval Granted: 12 Nov 2021
Date Authorized: 4 August 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com
Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.



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## Certificate of Compliance

| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Tees Molded | Class 200 | 2, 3, 4, 6 | 200 | (1375) | a, c |
| Tees Molded | Class 250 | 2, 3, 4, 6 | 250 | (1720) | a, c |
| Tees Molded | Class 335 | 2, 3, 4, 6 | 335 | (2305) | a, c |
| Tees Molded | Class 200 | 4, 6 | 200 | (1375) | a, d |
| Tees Molded | Class 250 | 4, 6 | 250 | (1720) | a, d |
| Tees Molded | Class 335 | 4, 6 | 335 | (2305) | a, d |
| $90^{\circ}$ Elbows Molded | Class 200 | 2, 3, 4, 6 | 200 | (1375) | a, c |
| $90^{\circ}$ Elbows Molded | Class 250 | 2, 3, 4, 6 | 250 | (1720) | a, c |
| $90^{\circ}$ Elbows Molded | Class 335 | 2, 3, 4, 6 | 335 | (2305) | a, c |
| $90^{\circ}$ Elbows Molded | Class 200 | 4,6 | 200 | (1375) | a, d |
| $90^{\circ}$ Elbows Molded | Class 250 | 4, 6 | 250 | (1720) | a, d |
| $90^{\circ}$ Elbows Molded | Class 335 | 4, 6 | 335 | (2305) | a, d |
| $45^{\circ}$ Elbows Molded | Class 200 | 3, 4, 6 | 200 | (1375) | a, c |
| $45^{\circ}$ Elbows Molded | Class 250 | 3, 4, 6 | 250 | (1720) | a, c |
| $45^{\circ}$ Elbows Molded | Class 335 | 2, 3, 4, 6 | 335 | (2305) | a, c |
| $45^{\circ}$ Elbows Molded | Class 200 | 4, 6 | 200 | (1375) | a, d |
| $45^{\circ}$ Elbows Molded | Class 250 | 4, 6 | 250 | (1720) | a, d |
| $45^{\circ}$ Elbows Molded | Class 335 | 4, 6 | 335 | (2305) | a, d |
| End Caps Molded | Class 200 | 2, 3, 4, 6, 8 | 200 | (1375) | a, c |
| End Caps Molded | Class 250 | 2, 3, 4, 6, 8 | 250 | (1720) | a, c |
| End Caps Molded | Class 335 | 2, 3, 4, 6 | 335 | (2305) | a, c |
| End Caps Fabricated | Class 200 | 10, 12, 14, 16, 18, 20, 22, 24 | 200 | (1375) | a, c |
| End Caps Fabricated | Class 250 | 10, 12, 14, 16, 18, 20, 22, 24 | 250 | (1720) | a, c |



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| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| End Caps Fabricated | Class 335 | 8, 10, 12, 14, 16, 18, 20, 22, 24 | 335 | (2305) | a, c |
| End Caps Fabricated | Class 200 | 10, 12, 14, 16, 18, 20, 24 | 200 | (1375) | a, d |
| End Caps Fabricated | Class 250 | 10, 12, 14, 16, 18, 20, 24 | 250 | (1720) | a, d |
| Sweep Elbows 1-90 ${ }^{\circ}$ | Class 200 | 4, 6, 8, 10, 12, 14 | 200 | (1375) | a, c |
| Sweep Elbows 1-90 ${ }^{\circ}$ | Class 250 | $4,6,8,10,12,14$ | 250 | (1720) | a, c |
| Concentric Reducer | Class 200 | 4 DIPS x 3 IPS | 200 | (1375) | a, c, d |
| Concentric Reducer | Class 250 | 4 DIPS x 3 IPS | 250 | (1720) | a, c, d |
| Concentric Reducer | Class 200 | $\begin{aligned} & 3 \times 2,4 \times 3,6 \times 4, \\ & 8 \times 6,10 \times 8,12 \times 10, \\ & 14 \times 12,16 \times 14,18 \times 16 \\ & 20 \times 18,22 \times 20,24 \times 22 \end{aligned}$ | 200 | (1375) | a, c |
| Forged Concentric Reducer | Class 200 | $\begin{aligned} & 12 \times 8,12 \times 10,14 \times 12,16 \times 12,16 \times 14, \\ & 18 \times 12,18 \times 14,18 \times 16, \\ & 20 \times 18,24 \times 18,24 \times 20 \end{aligned}$ | 200 | (1375) | a, c |
| Concentric Reducer | Class 250 | $\begin{aligned} & 3 \times 2,4 \times 3,6 \times 4, \\ & 8 \times 6,10 \times 8,12 \times 10, \\ & 14 \times 12,16 \times 14,18 \times 16 \\ & 20 \times 18,22 \times 20,24 \times 22 \end{aligned}$ | 250 | (1720) | a, c |
| Forged Concentric Reducer | Class 250 | $\begin{aligned} & 12 \times 8,12 \times 10,14 \times 12,16 \times 12,16 \times 14, \\ & 18 \times 12,18 \times 14,18 \times 16 \\ & 20 \times 18,24 \times 18,24 \times 20 \end{aligned}$ | 250 | (1720) | a, c |
| Molded Concentric Reducer | Class 335 | $3 \times 2,4 \times 2,4 \times 3,6 \times 4,8 \times 6$ | 335 | (2305) | a, c |
| Fabricated Concentric Reducer | Class 335 | $\begin{aligned} & 10 \times 8,12 \times 10,14 \times 12,16 \times 14 \\ & 18 \times 16,20 \times 18,22 \times 20,24 \times 22 \end{aligned}$ | 335 | (2305) | a, c |
| Fabricated Concentric Reducer (Shortened Version) | Class 335 | $\begin{array}{r} 10 \times 8,12 \times 10,14 \times 12,16 \times 14 \\ 18 \times 16,20 \times 18,22 \times 20,24 \times 22 \end{array}$ | 335 | (2305) | a, c |



Certificate of Compliance

| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Concentric Reducer | Class 200 | $\begin{aligned} & 6 \times 4,8 \times 6 \\ & 10 \times 8,12 \times 10 \\ & 14 \times 12,16 \times 14 \\ & 18 \times 16,20 \times 18,24 \times 20 \end{aligned}$ | 200 | (1375) | a, d |
| Concentric Reducer | Class 250 | $\begin{aligned} & 6 \times 4,8 \times 6 \\ & 10 \times 8,12 \times 10 \\ & 14 \times 12,16 \times 14 \\ & 18 \times 16,20 \times 18,24 \times 20 \end{aligned}$ | 250 | (1720) | a, d |
| Molded Concentric Reducer | Class 335 | $6 \times 4,8 \times 6$ | 335 | (2305) | a, d |
| Fabricated Concentric Reducer | Class 335 | $\begin{aligned} & 10 \times 8,12 \times 10,14 \times 12,16 \times 14, \\ & 18 \times 16,20 \times 18 \end{aligned}$ | 335 | (2305) | a, d |
| Compact Concentric Reducer | Class 200 | $6 \times 2,6 \times 3,6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8$, $12 \times 6,12 \times 8,12 \times 10,14 \times 6,14 \times 8,14 \times 10,14$ x $12,16 \times 6,16 \times 8,16 \times 10,16 \times 12,16 \times 14,18$ $\times 6,18 \times 8,18 \times 10,18 \times 12,18 \times 14,18 \times 16,20$ x $6,20 \times 8,20 \times 10,20 \times 12,20 \times 14,20 \times 16,20 \times$ $18,22 \times 6,22 \times 8,22 \times 10,22 \times 12,22 \times 14,22 \times$ $16,22 \times 18,22 \times 20,24 \times 6,24 \times 8,24 \times 10,24 \times$ $12,24 \times 14,24 \times 16,24 \times 18,24 \times 20,24 \times 22,26$ x $20,26 \times 22,26 \times 24,28 \times 20,28 \times 22,28 \times 24$, $28 \times 26,30 \times 22,30 \times 24,30 \times 26,30 \times 28,32 \times$ $24,32 \times 26,32 \times 28,32 \times 30,34 \times 30,34 \times 32,36$ x $28,36 \times 30,36 \times 32,36 \times 34$ | 200 | (1375) | a, c |
| Compact Concentric Reducer | Class 200 | $6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times 6,12 \times 8,12$ x $10,14 \times 6,14 \times 8,14 \times 10,14 \times 12,16 \times 6,16 \times$ $8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18 \times 8,18 \times$ $10,18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times 8,20 \times$ $10,20 \times 12,20 \times 14,20 \times 16,20 \times 18,24 \times 6,24 \times$ $8,24 \times 10,24 \times 12,24 \times 14,24 \times 16,24 \times 18,24 \times$ $20,30 \times 24,36 \times 30$ | 200 | (1375) | a, d |

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| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Compact Concentric Reducer | Class 250 | $6 \times 2,6 \times 3,6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times$ $6,12 \times 8,12 \times 10,14 \times 6,14 \times 8,14 \times 10,14 \times 12$, $16 \times 6,16 \times 8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18$ x $8,18 \times 10,18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times$ $8,20 \times 10,20 \times 12,20 \times 14,20 \times 16,20 \times 18,22 \times$ $6,22 \times 8,22 \times 10,22 \times 12,22 \times 14,22 \times 16,22 \times$ $18,22 \times 20,24 \times 6,24 \times 8,24 \times 10,24 \times 12,24 \times$ $14,24 \times 16,24 \times 18,24 \times 20,24 \times 22,26 \times 20,26$ x22, $26 \times 24,28 \times 20,28 \times 22,28 \times 24,28 \times 26,30$ $\times 22,30 \times 24,30 \times 26,30 \times 28,32 \times 24,32 \times 26,32$ $\times 28,32 \times 30,34 \times 30,34 \times 32,36 \times 28,36 \times 30,36$ $\times 32,36 \times 34$ | 250 | (1720) | a, c |
| Compact Concentric Reducer | Class 250 | $6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times 6,12 \times 8,12$ x $10,14 \times 6,14 \times 8,14 \times 10,14 \times 12,16 \times 6,16 \times$ $8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18 \times 8,18 \times 10$, $18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times 8,20 \times 10$, $20 \times 12,20 \times 14,20 \times 16,20 \times 18,24 \times 6,24 \times 8$, $24 \times 10,24 \times 12,24 \times 14,24 \times 16,24 \times 18,24 \times 20,$ $30 \times 24,36 \times 30$ | 250 | (1720) | a, d |
| Compact Concentric Reducer | Class 335 | $6 \times 2,6 \times 3,6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times$ $6,12 \times 8,12 \times 10,14 \times 6,14 \times 8,14 \times 10,14 \times 12$, $16 \times 6,16 \times 8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18$ x $8,18 \times 10,18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times$ $8,20 \times 10,20 \times 12,20 \times 14,20 \times 16,20 \times 18,22 \times$ $6,22 \times 8,22 \times 10,22 \times 12,22 \times 14,22 \times 16,22 \times$ $18,22 \times 20,24 \times 6,24 \times 8,24 \times 10,24 \times 12,24 \times$ $14,24 \times 16,24 \times 18,24 \times 20,24 \times 22$ | 335 | (2305) | a, c |
| Compact Concentric Reducer | Class 335 | $6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times 6,12 \times 8$, $12 \times 10,14 \times 6,14 \times 8,14 \times 10,14 \times 12,16 \times 6$, $16 \times 8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18 \times 8$, $18 \times 10,18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times 8$, $20 \times 10,20 \times 12,20 \times 14,20 \times 16,20 \times 18,24 \times 6$, $24 \times 8,24 \times 10,24 \times 12,24 \times 14,24 \times 16,24 \times 18$, $24 \times 20$ | 335 | (2305) | a, d |



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| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Machined Concentric Reducer | Class 200 | $6 \times 2,6 \times 3,6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times$ $6,12 \times 8,12 \times 10,14 \times 6,14 \times 8,14 \times 10,14 \times 12$, $16 \times 6,16 \times 8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18$ x $8,18 \times 10,18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times$ $8,20 \times 10,20 \times 12,20 \times 14,20 \times 16,20 \times 18,22 \times$ $6,22 \times 8,22 \times 10,22 \times 12,22 \times 14,22 \times 16,22 \times$ $18,22 \times 20,24 \times 6,24 \times 8,24 \times 10,24 \times 12,24 \times$ $14,24 \times 16,24 \times 18,24 \times 20,24 \times 22,26 \times 20,26$ x22, $26 \times 24,28 \times 20,28 \times 22,28 \times 24,28 \times 26,30$ x 22, $30 \times 24,30 \times 26,30 \times 28,32 \times 24,32 \times 26,32$ x 28, $32 \times 30,34 \times 30,34 \times 32,36 \times 28,36 \times 30,36$ x $32,36 \times 34$ | 200 | (1375) | a, c |
| Machined Concentric Reducer | Class 200 | $6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times 6,12 \times 8,12$ x $10,14 \times 6,14 \times 8,14 \times 10,14 \times 12,16 \times 6,16 \times$ $8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18 \times 8,18 \times 10$, $18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times 8,20 \times 10$, $20 \times 12,20 \times 14,20 \times 16,20 \times 18,24 \times 6,24 \times 8$, $24 \times 10,24 \times 12,24 \times 14,24 \times 16,24 \times 18,24 \times 20$, $30 \times 24,36 \times 30$ | 200 | (1375) | a, d |
| Machined Concentric Reducer | Class 250 | $6 \times 2,6 \times 3,6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8$, $12 \times 6,12 \times 8,12 \times 10,14 \times 6,14 \times 8,14 \times 10,14$ $\times 12,16 \times 6,16 \times 8,16 \times 10,16 \times 12,16 \times 14,18$ $\times 6,18 \times 8,18 \times 10,18 \times 12,18 \times 14,18 \times 16,20$ x $6,20 \times 8,20 \times 10,20 \times 12,20 \times 14,20 \times 16,20 \times$ $18,22 \times 6,22 \times 8,22 \times 10,22 \times 12,22 \times 14,22 \times$ $16,22 \times 18,22 \times 20,24 \times 6,24 \times 8,24 \times 10,24 \times$ $12,24 \times 14,24 \times 16,24 \times 18,24 \times 20,24 \times 22,26$ x $20,26 \times 22,26 \times 24,28 \times 20,28 \times 22,28 \times 24$, $28 \times 26,30 \times 22,30 \times 24,30 \times 26,30 \times 28,32 \times$ $24,32 \times 26,32 \times 28,32 \times 30,34 \times 30,34 \times 32,36$ x $28,36 \times 30,36 \times 32,36 \times 34$ | 250 | (1720) | a, c |



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| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Machined Concentric Reducer | Class 250 | $6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times 6,12 \times 8,12$ x $10,14 \times 6,14 \times 8,14 \times 10,14 \times 12,16 \times 6,16 \times$ $8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18 \times 8,18 \times 10$, $18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times 8,20 \times 10$, $20 \times 12,20 \times 14,20 \times 16,20 \times 18,24 \times 6,24 \times 8$, $24 \times 10,24 \times 12,24 \times 14,24 \times 16,24 \times 18,24 \times 20$, $30 \times 24,36 \times 30$ | 250 | (1720) | a, d |
| Machined Concentric Reducer | Class 335 | $6 \times 2,6 \times 3,6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times$ $6,12 \times 8,12 \times 10,14 \times 6,14 \times 8,14 \times 10,14 \times 12$, $16 \times 6,16 \times 8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18$ x $8,18 \times 10,18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times$ $8,20 \times 10,20 \times 12,20 \times 14,20 \times 16,20 \times 18,22 \times$ $6,22 \times 8,22 \times 10,22 \times 12,22 \times 14,22 \times 16,22 \times$ $18,22 \times 20,24 \times 6,24 \times 8,24 \times 10,24 \times 12,24 \times$ $14,24 \times 16,24 \times 18,24 \times 20,24 \times 22$ | 335 | (2305) | a, c |
| Machined Concentric Reducer | Class 335 | $6 \times 4,8 \times 4,8 \times 6,10 \times 6,10 \times 8,12 \times 6,12 \times 8,12$ x $10,14 \times 6,14 \times 8,14 \times 10,14 \times 12,16 \times 6,16 \times$ $8,16 \times 10,16 \times 12,16 \times 14,18 \times 6,18 \times 8,18 \times 10$, $18 \times 12,18 \times 14,18 \times 16,20 \times 6,20 \times 8,20 \times 10$, $20 \times 12,20 \times 14,20 \times 16,20 \times 18,24 \times 6,24 \times 8$, $24 \times 10,24 \times 12,24 \times 14,24 \times 16,24 \times 18,24 \times 20$ | 335 | (2305) | a, d |
| Fabricated Concentric Reducer (Shortened Version) | Class 335 | $\begin{aligned} & 10 \times 8,12 \times 10,14 \times 12,16 \times 14, \\ & 18 \times 16,20 \times 18 \end{aligned}$ | 335 | (2305) | a, d |
| Flange Adapter, Molded | Class 200 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 200 | (1375) | $a, b, c$ |
| Flange Adapter, Molded | Class 250 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 250 | (1720) | $a, b, c$ |
| Flange Adapter, Molded | Class 335 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 335 | (2305) | $a, b, c$ |
| Flange Adapter, Machined | Class 200 | 26, 28,30, 32, 34, 36 | 200 | (1375) | $a, b, c$ |



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| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Flange Adapter, Machined | Class 250 | 26, 28,30, 32, 34, 36 | 250 | (1720) | $a, b, c$ |
| Fabricated Beveled Flange Adapter | Class 200 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 200 | (1375) | $a, b, c$ |
| Fabricated Beveled Flange Adapter | Class 250 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 250 | (1720) | $a, b, c$ |
| Fabricated Beveled Flange Adapter | Class 335 | 6, 8, 10 | 335 | (2305) | $a, b, c, d$ |
| Fabricated Beveled Flange Adapter | Class 200 | $4,6,8,10,12,14,16,18,20,24$ | 200 | (1375) | $a, b, d$ |
| Fabricated Beveled Flange Adapter | Class 250 | 4, 6, 8, 10,12, 14, 16, 18, 20, 24 | 250 | (1720) | $a, b, d$ |
| Fabricated Beveled Flange Adapter | Class 335 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 335 | (2305) | $\mathrm{a}, \mathrm{b}, \mathrm{c}$ |
| Flange Adapter, Molded | Class 200 | $\begin{aligned} & 4,6,8,10,12,14 \\ & 16,18,20,24 \end{aligned}$ | 200 | (1375) | $a, b, d$ |
| Flange Adapter, Molded | Class 250 | $\begin{aligned} & 4,6,8,10,12,14 \\ & 16,18,20,24 \end{aligned}$ | 250 | (1720) | $a, b, d$ |
| Flange Adapter, Molded | Class 335 | $\begin{aligned} & 4,6,8,10,12,14 \\ & 16,18,20,24 \end{aligned}$ | 335 | (2305) | $a, b, d$ |
| Flange Adapter, Machined | Class 200 | 30, 36 | 200 | (1375) | $a, b, d$ |
| Flange Adapter, Machined | Class 250 | 30, 36 | 250 | (1720) | $a, b, d$ |
| Ductile Iron Backup Rings | Class 200 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 200 | (1375) | b, c |

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## FMAmporals

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## Certificate of Compliance

| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Ductile Iron Backup Rings | Class 250 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 250 | (1720) | b, c |
| Ductile Iron Backup Rings (Domestic) | Class 335 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 335 | (2305) | b, c |
| Ductile Iron Backup Rings (Import) | Class 335 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 335 | (2305) | b, c |
| Convoluted Ductile Iron Backup Rings | Class 200 | $\begin{aligned} & 2,3,4,6,8,10,12,14,16,18,20,22,24,26, \\ & 28,30,32,34,36 \end{aligned}$ | 200 | (1375) | b, c |
| Convoluted Ductile Iron Backup Rings | Class 250 | $\begin{aligned} & 2,3,4,6,8,10,12,14,16,18,20,22,24,26 \\ & 28,30,32,36 \end{aligned}$ | 250 | (1720) | b, c |
| Convoluted Ductile Iron Backup Rings | Class 335 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 335 | (2305) | b, c |
| Stainless Steel Backup Rings | Class 200 | $\begin{aligned} & 2,3,4,6,8,10,12,14,16,18,20,22,24,26,28 \text {, } \\ & 30,32,34,36 \end{aligned}$ | 200 | (1375) | b, c |
| Stainless Steel Backup Rings | Class 250 | $2,3,4,6,8,10,12,14,16,18,20,22,24,28,30$ | 250 | (1720) | b, c |
| Stainless Steel Backup Rings | Class 335 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 335 | (2305) | b, c |
| Carbon Steel Lap Joint Flange | Class 200 | $\begin{aligned} & 2,3,4,6,8,10,12,14,16,18,20,22,24,26,28 \text {, } \\ & 30,32,34,36 \end{aligned}$ | 200 | (1375) | b, c |
| Carbon Steel Lap Joint Flange | Class 250 | $\begin{aligned} & 2,3,4,6,8,10,12,14,16,18,20,22,24,26,28 \text {, } \\ & 30,32,34,36 \end{aligned}$ | 250 | (1720) | b, c |
| Carbon Steel Lap Joint Flange | Class 335 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 335 | (2305) | b, c |
| Ductile Iron Backup Rings | Class 200 | $\begin{aligned} & 4,6,8,10 \\ & 12,14,16,18,20,24 \end{aligned}$ | 200 | (1375) | $\mathrm{b}, \mathrm{d}$ |
| Ductile Iron Backup Rings | Class 250 | $\begin{aligned} & 4,6,8,10 \\ & 12,14,16,18,20,24 \end{aligned}$ | 250 | (1720) | b, d |



## Certificate of Compliance

| Model No | Product <br> Description | Nominal Pipe Size, in | Rated Working <br> Pressure |  | Remarks |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (kPa) |  |  |  |  |  |
| Ductile Iron Backup <br> Rings (Domestic) | Class 335 | $4,6,8,10$, <br> $12,14,16,18,20,24$ | 335 | $(2305)$ | b, d |
| Ductile Iron Backup <br> Rings (Import) | Class 335 | $4,6,8,10$, <br> $12,14,16,18,20,24$ | 335 | $(2305)$ | b, d |
| Convoluted Ductile <br> Iron Backup Rings | Class 200 | $4,6,8,10,12,14,16,18,20,24,30,36$ | 200 | $(1375)$ | b, d |
| Convoluted Ductile <br> Iron Backup Rings | Class 250 | $4,6,8,10,12,14,16,18,20,24,30,36$ | 250 | $(1720)$ | b, d |
| Stainless Steel <br> Backup Rings | Class 200 | $4,6,8,10,12,14,16,18,20,24,30,36$ | 200 | $(1375)$ | b, d |
| Stainless Steel <br> Backup Rings | Class 250 | $4,6,8,10,12,14,16,18,20,24,30$ | 250 | $(1720)$ | b, d |
| Stainless Steel <br> Backup Rings | Class 335 | $4,6,8,10,18,20,24$ |  |  |  |
| $12,14,16,18,20,24$ | 335 | $(2305)$ | b, d |  |  |
| Carbon Steel Lap <br> Joint Flange | Class 200 | $4,6,8,10,12,14,16,18,20,24,30,36$ | 200 | $(1375)$ | b, d |
| Carbon Steel Lap <br> Joint Flange | Class 250 | $4,6,8,10,12,14,16,18,20,24,30,36$ | 250 | $(1720)$ | b, d |
| Carbon Steel Lap <br> Joint Flange | Class 335 | $4,6,8,10,12,14,16,18,20,24$ | 335 | $(2305)$ | b, d |

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## Certificate of Compliance

| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Branch Saddle Reducing Tee | Class 200 | $\begin{aligned} & 3 \times 2,4 \times 2,4 \times 3, \\ & 6 \times 2,6 \times 3,6 \times 4, \\ & 8 \times 2,8 \times 3,8 \times 4, \\ & 8 \times 6,10 \times 2,10 \times 3, \\ & 10 \times 4,10 \times 6,10 \times 8, \\ & 12 \times 2,12 \times 3,12 \times 4, \\ & 12 \times 6,12 \times 8,12 \times 10, \\ & 14 \times 2,14 \times 3,14 \times 4, \\ & 14 \times 6,14 \times 8,14 \times 10, \\ & 16 \times 2,16 \times 3,16 \times 4,16 \times 6, \\ & 16 \times 8,16 \times 10,16 \times 12, \\ & 18 \times 2,18 \times 3,18 \times 4,18 \times 6, \\ & 18 \times 8,18 \times 10,18 \times 12, \\ & 20 \times 6,20 \times 8,20 \times 10, \\ & 20 \times 12,20 \times 16,22 \times 6, \\ & 24 \times 6,24 \times 8,24 \times 10, \\ & 24 \times 12,24 \times 16 \end{aligned}$ | 200 | (1375) | a, c |
| Branch Saddle Reducing Tee | Class 250 | $\begin{aligned} & 3 \times 2,4 \times 2,4 \times 3, \\ & 6 \times 2,6 \times 3,6 \times 4, \\ & 8 \times 2,8 \times 3,8 \times 4, \\ & 8 \times 6,10 \times 2,10 \times 3, \\ & 10 \times 4,10 \times 6,10 \times 8, \\ & 12 \times 2,12 \times 3,12 \times 4, \\ & 12 \times 6,12 \times 8,12 \times 10, \\ & 14 \times 2,14 \times 3,14 \times 4, \\ & 14 \times 6,14 \times 8,14 \times 10, \\ & 16 \times 2,16 \times 3,16 \times 4,16 \times 6, \\ & 16 \times 8,16 \times 10,16 \times 12, \\ & 18 \times 2,18 \times 3,18 \times 4,18 \times 6, \\ & 18 \times 8,18 \times 10,18 \times 12, \\ & 20 \times 6,20 \times 8,20 \times 10, \\ & 20 \times 12,20 \times 16,22 \times 6, \\ & 24 \times 6,24 \times 8,24 \times 10, \\ & 24 \times 12,24 \times 16 \end{aligned}$ | 250 | (1720) | a, c |
| Branch Saddle Reducing Tee | Class 335 | $\begin{aligned} & 8 \times 6,10 \times 6,10 \times 8,12 \times 6, \\ & 12 \times 8,12 \times 10,14 \times 6,14 \times 8, \\ & 14 \times 10,16 \times 6,16 \times 8,16 \times 10, \\ & 16 \times 12,18 \times 6,18 \times 8,18 \times 10, \\ & 18 \times 12,20 \times 6,20 \times 8,20 \times 10, \\ & 20 \times 12,24 \times 6,24 \times 8,24 \times 10,24 \times 12 \end{aligned}$ | 335 | (2305) | $\mathrm{a}, \mathrm{c}, \mathrm{d}$ |



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## Certificate of Compliance

| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Branch Saddle Reducing Tee | Class 200 | $\begin{aligned} & 6 \times 4,8 \times 4,8 \times 6, \\ & 10 \times 4,10 \times 6,10 \times 8, \\ & 12 \times 4,12 \times 6,12 \times 8,12 \times 10, \\ & 14 \times 4,14 \times 6,14 \times 8,14 \times 10, \\ & 16 \times 4,16 \times 6,16 \times 8, \\ & 16 \times 10,16 \times 12, \\ & 18 \times 4,18 \times 6,18 \times 8, \\ & 18 \times 10,18 \times 12, \\ & 20 \times 6,20 \times 8,20 \times 10,20 \times 12, \\ & 24 \times 6,24 \times 8,24 \times 10,24 \times 12 \end{aligned}$ | 200 | (1375) | a, d |
| Branch Saddle Reducing Tee | Class 250 | $\begin{aligned} & 6 \times 4,8 \times 4,8 \times 6, \\ & 10 \times 4,10 \times 6,10 \times 8, \\ & 12 \times 4,12 \times 6,12 \times 8,12 \times 10, \\ & 14 \times 4,14 \times 6,14 \times 8,14 \times 10, \\ & 16 \times 4,16 \times 6,16 \times 8, \\ & 16 \times 10,16 \times 12, \\ & 18 \times 4,18 \times 6,18 \times 8, \\ & 18 \times 10,18 \times 12, \\ & 20 \times 6,20 \times 8,20 \times 10,20 \times 12, \\ & 24 \times 6,24 \times 8,24 \times 10,24 \times 12 \end{aligned}$ | 250 | (1720) | a, d |
| Fabricated Tee | Class 200 | $\begin{aligned} & 8,10,12 \\ & 14,16,18,20,22,24 \end{aligned}$ | 200 | (1375) | a, c |
| Fabricated Tee | Class 250 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32,34 \\ & 36 \end{aligned}$ | 250 | (1720) | a, c |
| Fabricated Tee | Class 335 | $8,10,12$, <br> $14,16,18,20,22,24$ | 335 | (2305) | a, c |
| Fabricated Tee | Class 200 | $\begin{aligned} & 8,10,12, \\ & 14,16,18,20,24 \end{aligned}$ | 200 | (1375) | a, d |
| Fabricated Tee | Class 250 | 8,10, 12, 14, 16, 18, 20, 24, 30, 36 | 250 | (1720) | a, d |
| Fabricated Tee | Class 335 | $8,10,12$, <br> $14,16,18,20,24$ | 335 | (2305) | a, d |
| Fabricated $\leq 90^{\circ}$ <br> Elbow (5 segments) | Class 200 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32,34 \text {, } \\ & 36 \end{aligned}$ | 200 | (1375) | a, c |



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## Certificate of Compliance

| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Fabricated $\leq 90^{\circ}$ <br> Elbow (5 segments) | Class 250 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32,34 \text {, } \\ & 36 \end{aligned}$ | 250 | (1720) | a, c |
| Fabricated $\leq 90^{\circ}$ <br> Elbow (5 segments) | Class 335 | $\begin{aligned} & 8,10,12 \\ & 14,16,18,20,22,24 \end{aligned}$ | 335 | (2305) | a, c |
| Fabricated $\leq 90^{\circ}$ <br> Elbow (5 segments) | Class 200 | 8, 10, 12, 14, 16, 18, 20, 24, 30, 36 | 200 | (1375) | a, d |
| Fabricated $\leq 90^{\circ}$ <br> Elbow (5 segments) | Class 250 | 8,10, 12, 14, 16, 18, 20, 24, 30, 36 | 250 | (1720) | a, d |
| Fabricated $\leq 90^{\circ}$ <br> Elbow (5 segments) | Class 335 | 8, 10, 12, <br> $14,16,18,20,24$ | 335 | (2305) | a, d |
| Fabricated $\leq 90^{\circ}$ Elbow (3 segments) | Class 200 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32,34, \\ & 36 \end{aligned}$ | 200 | (1375) | a, c |
| Fabricated $\leq 90^{\circ}$ Elbow (3 segments) | Class 250 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32 \text {, } \\ & 34,36 \end{aligned}$ | 250 | (1720) | a, c |
| Fabricated $\leq 90^{\circ}$ Elbow (3 segments) | Class 335 | $\begin{aligned} & 8,10,12, \\ & 14,16,18,20,22,24 \end{aligned}$ | 335 | (2305) | a, c |
| Fabricated $\leq 90^{\circ}$ Elbow (3 segments) | Class 200 | 8,10, 12, 14, 16, 18, 20, 24, 30, 36 | 200 | (1375) | a, d |
| Fabricated $\leq 90^{\circ}$ Elbow (3 segments) | Class 250 | 8,10, 12, 14, 16, 18, 20, 24, 30, 36 | 250 | (1720) | a, d |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (3 segments) | Class 200 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32,34 \text {, } \\ & 36 \end{aligned}$ | 200 | (1375) | a, c |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (3 segments) | Class 250 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32,34 \text {, } \\ & 36 \end{aligned}$ | 250 | (1720) | a, c |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (3 segments) | Class 335 | 8, 10, 12, <br> $14,16,18,20,22,24$ | 335 | (2305) | a, c |



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| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (3 segments) | Class 200 | 8, 10, 12, 14, 16, 18, 20, 24, 30, 36 | 200 | (1375) | a, d |
| Fabricated $\leq 45^{\circ}$ Elbow (3 segments) | Class 250 | 8, 10, 12, 14, 16, 18, 20, 24, 30, 36 | 250 | (1720) | a, d |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (3 segments) | Class 335 | $\begin{aligned} & 8,10,12, \\ & 14,16,18,20,24 \end{aligned}$ | 335 | (2305) | a, d |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (2 segments) | Class 200 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32 \text {, } \\ & 34,36 \end{aligned}$ | 200 | (1375) | a, c |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (2 segments) | Class 250 | $\begin{aligned} & 8,10,12,14,16,18,20,22,24,26,28,30,32 \text {, } \\ & 34,36 \end{aligned}$ | 250 | (1720) | a, c |
| Fabricated $\leq 45^{\circ}$ Elbow (2 segments) | Class 335 | 8, 10, 12, <br> $14,16,18,20,22,24$ | 335 | (2305) | a, c |
| Fabricated $\leq 45^{\circ}$ <br> Elbow (2 segments) | Class 200 | 8, 10, 12, 14, 16, 18, 20, 24, 30, 36 | 200 | (1375) | a, d |
| Fabricated $\leq 45^{\circ}$ Elbow (2 segments) | Class 250 | 8, 10, 12, 14, 16, 18, 20, 24, 30, 36 | 250 | (1720) | a, d |
| Mechanical Joint Adapter | Class 200 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18 \end{aligned}$ | 200 | (1375) | a, b, c |
| Mechanical Joint Adapter | Class 250 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18 \end{aligned}$ | 250 | (1720) | a, b, c |
| Mechanical Joint Adapter | Class 200 | $\begin{aligned} & 4,6,8,10, \\ & 12,14,16,18 \end{aligned}$ | 200 | (1375) | $a, b, d$ |
| Mechanical Joint Adapter | Class 250 | $\begin{aligned} & 4,6,8,10 \\ & 12,14,16,18 \end{aligned}$ | 250 | (1720) | $a, b, d$ |
| Fabricated Mechanical Joint Adapter | Class 200 | $3,4,6,8,10,12,14,16,18,20,24$ | 200 | (1375) | a, c |



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## Certificate of Compliance

| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Fabricated Mechanical Joint Adapter | Class 250 | $3,4,6,8,10,12,14,16,18$ | 250 | (1720) | a, c |
| Fabricated Mechanical Joint Adapter | Class 200 | $4,6,8,10,12,14,16,18,20,24$ | 200 | (1375) | a, d |
| Fabricated Mechanical Joint Adapter | Class 250 | $4,6,8,10,12,14,16,18$ | 250 | (1720) | a, d |
| Wall Anchor | Class 200 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 200 | (1375) | a, c |
| Wall Anchor | Class 250 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 250 | (1720) | a, c |
| Wall Anchor | Class335 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14,16,18,20,22,24 \end{aligned}$ | 335 | (2305) | a, c |
| Wall Anchor | Class 200 | $\begin{aligned} & 4,6,8,10 \\ & 12,14,16,18,20,24 \end{aligned}$ | 200 | (1375) | a, d |
| Wall Anchor | Class 250 | $\begin{aligned} & 4,6,8,10 \\ & 12,14,16,18,20,24 \end{aligned}$ | 250 | (1720) | a, d |
| Wall Anchor | Class 335 | $\begin{aligned} & 4,6,8,10 \\ & 12,14,16,18,20,24 \end{aligned}$ | 335 | (2305) | a, d |
| Fabricated Wall Anchor | Class 200 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 200 | (1375) | a, c |
| Fabricated Wall Anchor | Class 250 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 250 | (1720) | a, c |
| Fabricated Wall Anchor | Class 335 | $2,3,4,6,8,10,12,14,16,18,20$ | 335 | (2305) | a, c |
| Fabricated Wall Anchor | Class 200 | $4,6,8,10,12,14,16,18,20,24$ | 200 | (1375) | a, d |



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| Model No | Product Description | Nominal Pipe Size, in | Rated Working Pressure |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | psi | (kPa) |  |
| Fabricated Wall Anchor | Class 250 | $4,6,8,10,12,14,16,18,20,24$ | 250 | (1720) | a, d |
| Stub End | Class 335 | $\begin{aligned} & 2,3,4,6,8,10 \\ & 12,14 \end{aligned}$ | 335 | (2305) | a, c |
| Stub End | Class 335 | $\begin{aligned} & 4,6,8,10 \\ & 12,14 \end{aligned}$ | 335 | (2305) | a, d |
| Reducing Flanges | Class 250 | $\begin{aligned} & 8 \times 6,10 \times 8,12 \times 10,14 \times 12 \\ & 16 \times 14,18 \times 16 \end{aligned}$ | 250 | (1720) | $\mathrm{a}, \mathrm{b}, \mathrm{c}, \mathrm{d}$ |
| Reducing Flanges | Class 335 | $\begin{aligned} & 6 \times 4,8 \times 6,10 \times 8,12 \times 10 \\ & 14 \times 12,16 \times 14,18 \times 16,20 \times 18 \\ & 22 \times 20,24 \times 20,24 \times 22,26 \times 24 \end{aligned}$ | 335 | (2305) | $\mathrm{a}, \mathrm{b}, \mathrm{c}$ |
| Reducing Flanges | Class 335 | $\begin{aligned} & 6 \times 4,8 \times 6,10 \times 8,12 \times 10 \\ & 14 \times 12,16 \times 14,18 \times 16,20 \times 18 \\ & 24 \times 20,26 \times 24 \end{aligned}$ | 335 | (2305) | $a, b, d$ |
| HDPE x Steel Weld End Transition Fitting | Class 200 | $2,3,4,6,8,10,12,14,16,18,20,24$ | 200 | (1375) | a, c |
| HDPE x Steel Weld End Transition Fitting | Class 250 | $2,3,4,6,8,10,12,14,16,18,20,24$ | 250 | (1720) | a, c |
| HDPE x Steel Weld End Transition Fitting | Class 335 | $2,3,4,6,8,10,12,14,16,18,20,24$ | 335 | (2305) | a, c |
| Fabricated HDPE x <br> Steel Weld End <br> Transition Fitting | Class 200 | $2,3,4,6,8,10,12,14,16,18,20$ | 200 | (1375) | a, c |
| Fabricated HDPE x <br> Steel Weld End Transition Fitting | Class 250 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 250 | (1720) | a, c |
| Fabricated HDPE x <br> Steel Weld End Transition Fitting | Class 335 | $2,3,4,6,8,10,12,14,16,18,20,22,24$ | 335 | (2305) | a, c |
| HDPE x Male Threaded Transition (Brass/SS) | Class 200 | 2, 3, 4 | 200 | (1375) | a, c |



## Certificate of Compliance

|  | Product <br> Moscription | Nominal Pipe Size, in | Rated Working <br> Pressure |  | Remarks |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | psi | (kPa) |  |  |  |
| HDPE x Male <br> Threaded Transition <br> (Brass/SS) | Class 250 | $2,3,4$ | 250 | $(1720)$ | a, c |
| HDPE x Male <br> Threaded Transition <br> (Brass/SS) | Class 335 | $2,3,4$ | 335 | $(2305)$ | a, c |
| Electrofusion <br> Coupling | Class 200 | $2,4,6,8,10,12,14,16,18,20$ | 200 | $(1375)$ | a, c |
| Electrofusion <br> Coupling | Class 250 | $2,4,6,8,10,12,14,16,18,20$ | 250 | $(1720)$ | a, c |

## Remarks:

a. Pipe and fittings may be directly connected together by the butt fusion process. Manufacturer fusion instructions must be strictly followed for a proper fusion joint. The pipe and fittings may also be joined to other FM Approved steel flanged pipe and fittings by using the listed flange adapters.
b. Pipe and adapter, with ductile iron gland ring attached, are directly connected by the butt fusion process. Manufacturer fusion instructions must be strictly followed for a proper fusion joint. The polyethylene fitting, gland ring, gasket, and THead bolts are provided in a kit for field installation, which allows attachment to a compatible flange with ductile iron pipe. c. FM Approved in Iron Pipe Sized Diameter Basis.
d. FM Approved in Ductile Iron Pipe Size Diameter Basis.

## FM Anprovals

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