



# CAST DUCTILE IRON COUPLINGS STRAIGHT & TRANSITION SELECTION TABLE

NOM. PIPE SIZE	FIRST END				BY X	SECOND END				MAX. PRESSURE (Working) LBS./IN. <sup>2</sup>	NUMBER OF FASTENERS DIA. X LENGTH	SLEEVE LENGTH IN.	SHIPPING WEIGHT***		
	RANGE			END CODE		RANGE			END CODE				LBS.	KG.	
	LOW	PIPE OD (Actual)	HIGH*			LOW	PIPE OD (Actual)	HIGH*							
2	2.35	2.38	2.63	D3	X	2.35	2.38	2.63	D3	175	<sup>2</sup> / <sub>5/8</sub> x 8	5	10	4.5	
2.5	2.69		2.88	D3	X	2.69		2.88	D3	175	<sup>2</sup> / <sub>5/8</sub> x 8	5	13	6	
4	3.45	3.50	3.60	4T	X	3.45	3.50	3.60	4T	175	<sup>4</sup> / <sub>5/8</sub> x 8	5	17	7.7	
	3.75		4.05	F3A			4.05	F3A							
	4.05		4.35	F3B			4.35	F3B							
	4.40	4.50	4.60	D3			4.40	4.50	4.60		D3	<sup>4</sup> / <sub>5/8</sub> x 11	7	20	9.0
	4.74	4.80	5.10	A1			4.74	4.80	5.10		A1	<sup>4</sup> / <sub>5/8</sub> x 14	10	28	13
	5.10		5.30	E5			5.10		5.30		E5				
6	5.65		5.95	6T	X	5.65		5.95	6T	175	<sup>5</sup> / <sub>5/8</sub> x 8	5	25	11.3	
	5.85		6.15	F3A			6.15	F3A							
	6.15		6.45	F3B			6.15	6.45	F3B						
	6.50	6.63	6.70	D3			6.50	6.63	6.70		D3	<sup>5</sup> / <sub>5/8</sub> x 11	7	33	14.9
	6.86	6.90	7.10	A1			6.86	6.90	7.10		A1				
	7.15		7.35	E5			7.15		7.35		E5				
8	7.90		8.25	F3A	X	7.90		8.25	F3A	175	<sup>6</sup> / <sub>5/8</sub> x 8	5	30	13.6	
	8.25		8.55	F3B			8.25	8.55	F3B						
	8.55	8.63	8.75	D3			8.55	8.63	8.75		D3	<sup>6</sup> / <sub>5/8</sub> x 11	7	39	17.7
	8.99	9.05	9.30	A1			8.99	9.05	9.30		A1				
	9.30		9.50	E5			9.30		9.50		E5				
10**	9.85		10.20	F4A	X	9.85		10.20	F4A	175	<sup>7</sup> / <sub>5/8</sub> x 11	7	59	26.8	
	10.20		10.50	F4B			10.20		10.50						F4B
	10.60	10.75	10.90	D4			10.60	10.75	10.90						D4
	11.10	11.10	11.40	B2			11.10	11.10	11.40		B2	<sup>7</sup> / <sub>5/8</sub> x 14	10	75	34.0
	11.55		11.75	A1			11.55		11.75		A1				
	11.90		12.10	E5			11.90		12.10		E5				
SERIES 2 (STANDARD STEEL AND DUCTILE SIZES ONLY / PVC DR18)															
10	10.60	10.75	10.90	S9	X	10.60	10.75	10.90	S9	175	<sup>7</sup> / <sub>5/8</sub> x 11	7	49	22.3	
	11.10	11.10	11.40	G8			11.10	11.10	11.40						G8

All dimensions are in inches.

## CAST COUPLING CONFIGURATIONS:

- 1406:** Enamel coated Center Sleeve and End Rings, Stainless Steel Fasteners.
- 1408:** Enamel coated Center Sleeve and End Rings, HSLA Steel Fasteners.
- 1506:** Epoxy coated Center Sleeve and End Rings, Stainless Steel Fasteners.
- 1508:** Epoxy coated Center Sleeve and End Plates, HSLA steel fasteners.
- 1507:** Epoxy coated Center Sleeve and End Rings, HSLA Steel Bolts, complete with Zinc Anodes.
- 1519:** Epoxy coated Center Sleeve and End Plates, HSLA Steel Fasteners, complete with 1/4" Zinc plated cap screw designed for cathodically protected applications.

Note: \* The pipe OD or the end plate combination code is used when ordering.  
 \*\* Some transitions may require a stepped center sleeve.  
 \*\*\* Shipping weights are approximate and vary according to configuration.  
 - Recommended torque to 70-80 ft. lbs.



Couplings do not prevent pipe pullout. Suitable restraint should be used when required.

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# CAST DUCTILE IRON COUPLINGS STRAIGHT & TRANSITION SELECTION TABLE

NOM. PIPE SIZE	FIRST END				BY X	SECOND END				MAX. PRESSURE (Working) LBS./IN. <sup>2</sup>	NUMBER OF FASTENERS DIA. X LENGTH	SLEEVE LENGTH IN.	SHIPPING WEIGHT***	
	RANGE			END CODE		RANGE			END CODE				LBS.	KG.
	LOW	PIPE OD (Actual)	HIGH*			LOW	PIPE OD (Actual)	HIGH*						
12**	12.00		12.30	F4A	X	12.00		12.30	F4A	175	8 5/8 x 11	7	74	33.6
	12.30		12.60	F4B		12.30		12.60	F4B					
	12.60	12.75	12.90	D4		12.60	12.75	12.90	D4					
	13.20	13.20	13.60	B2		13.20	13.20	13.60	B2					
	13.80	14.00	14.10	A1		13.80	14.00	14.10	A1					
	14.10		14.35	E5		14.10		14.35	E5					
SERIES 2 (STANDARD STEEL AND DUCTILE SIZES ONLY / PVC DR18)														
12	12.60	12.75	12.90	S9	X	12.60	12.75	12.90	S9	175	8 5/8 x 11	7	55	25.0
	13.20	13.20	13.50	G8		13.20	13.20	13.50	G8					
14	14.60		14.90	F2	X	14.60		14.90	F2	175	9 5/8 x 11	7	100	45.5
	15.30	15.30	15.70	B2		15.30	15.30	15.70	B2					
	15.80	16.00	16.25	A1		15.80	16.00	16.25	A1					
	16.40		16.80	E5		16.40		16.80	E5					
16	17.40	17.40	17.80	B2	X	17.40	17.40	17.80	B2	150	10 5/8 x 11	7	132	60
	17.80	18.00	18.20	A1		17.80	18.00	18.20	A1					
	18.40		18.80	E5		18.40		18.80	E5					
18	18.80		19.20	B1	X	18.80		19.20	B1	150	12 5/8 x 11	7	140	63.5
	19.10	19.50	19.70	A2		19.10	19.50	19.70	A2					
	19.70	20.00	20.25	E5		19.70	20.00	20.25	E5					
20	20.80		21.35	B1	X	20.80		21.35	B1	150	12 5/8 x 11	7	150	68
	21.35	21.60	21.75	A2		21.35	21.60	21.75	A2					
	21.75	22.00	22.25	E5		21.75	22.00	22.25	E5					
22	22.95		23.35	B1	X	22.95		23.35	B1	150	13 5/8 x 11	7	165	75
	23.45		23.85	A2		23.45		23.85	A2					
	23.75	24.00	24.25	E5		23.75	24.00	24.25	E5					
24	25.70	25.80	26.00	A2	X	25.70	25.80	26.00	A2	150	14 5/8 x 15	10	285	129.6
	26.10		26.32	E5		26.10		26.32	E5					

All dimensions are in inches.

## HOW TO ORDER:

Determine the product number (1408, etc.) and the pipe OD or end plate combination for each end of the coupling (see page 1.1.1, 1.1.2), and then use the appropriate ordering code as shown in the following example.

To couple a 6" Steel pipe (6.63" OD) to a 6" C900 PVC pipe (6.90" OD), the ordering code is:

1408 - 6.63" x 6.90" i.e. **1408 - 6.63 x 6.90**  
 product OD (Actual) OD (Actual) or **1408 - 6D3 x 6A1**  
 number

Note: \* The pipe OD or the end plate combination code is used when ordering.

\*\* Some transitions may require a stepped center sleeve.

\*\*\* Shipping weights are approximate and vary according to configuration.

- Recommended torque to 70-80 ft. lbs.

## CAUTION



Couplings do not prevent pipe pullout. Suitable restraint should be used when required.

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# CAST DUCTILE IRON COUPLINGS REDUCING COUPLING SELECTION TABLE

NOM. PIPE SIZE	LARGE END				BY X	SMALL END				MAX. PRESSURE (Working) LBS./IN. <sup>2</sup>	NUMBER OF FASTENERS DIA. X LENGTH	SLEEVE LENGTH IN.	SHIPPING WEIGHT**	
	RANGE			END CODE		RANGE			END CODE				LBS.	KG.
	LOW	PIPE OD (Actual)	HIGH*			LOW	PIPE OD (Actual)	HIGH*						
6	5.65		5.95	<b>6T</b>	4	3.45	<b>3.50</b>	3.60	<b>4T</b>	175	5 5/8 x 8	5	25	11.3
	5.85		6.15	<b>F3A</b>		3.75		4.05	<b>F3A</b>					
	6.15		6.45	<b>F3B</b>		4.05		4.35	<b>F3B</b>					
	6.50	<b>6.63</b>	6.70	<b>D3</b>		4.40	<b>4.50</b>	4.60	<b>D3</b>					
	6.86	<b>6.90</b>	7.10	<b>A1</b>		4.74	<b>4.80</b>	5.10	<b>A1</b>					
	7.15		7.35	<b>E5</b>		5.10		5.30	<b>E5</b>					
8	7.90		8.25	<b>F3A</b>	6	5.85		6.15	<b>F3A</b>	175	6 5/8 x 8	5	34	15.5
	8.25		8.55	<b>F3B</b>		6.15		6.45	<b>F3B</b>					
	8.55	<b>8.63</b>	8.75	<b>D3</b>		6.50	<b>6.63</b>	6.70	<b>D3</b>					
	8.99	<b>9.05</b>	9.30	<b>A1</b>		6.86	<b>6.90</b>	7.10	<b>A1</b>					
	9.30		9.50	<b>E5</b>		7.15		7.35	<b>E5</b>					
10	9.85		10.20	<b>F4A</b>	8	7.90		8.25	<b>F3A</b>	175	7 5/8 x 11	7	51	23.2
	10.20		10.50	<b>F4B</b>		8.25		8.55	<b>F3B</b>					
	10.60	<b>10.75</b>	10.90	<b>D4</b>		8.55	<b>8.63</b>	8.75	<b>D3</b>					
	11.10	<b>11.10</b>	11.40	<b>B2</b>		8.99	<b>9.05</b>	9.30	<b>A1</b>					
	11.55		11.75	<b>A1</b>		9.30		9.50	<b>E5</b>					
	11.90		12.10	<b>E5</b>										
12	12.00		12.30	<b>F4A</b>	10	9.85		10.20	<b>F4A</b>	175	8 5/8 x 11	7	83	37.7
	12.30		12.60	<b>F4B</b>		10.20		10.50	<b>F4B</b>					
	12.60	<b>12.75</b>	12.90	<b>D4</b>		10.60	<b>10.75</b>	10.90	<b>D4</b>					
	13.20	<b>13.20</b>	13.60	<b>B2</b>		11.10	<b>11.10</b>	11.40	<b>B2</b>					
	13.80	<b>14.00</b>	14.10	<b>A1</b>		11.55		11.75	<b>A1</b>					
	14.10		14.35	<b>E5</b>		11.90		12.10	<b>E5</b>					
14	14.60		14.90	<b>F2</b>	12	12.00		12.30	<b>F4A</b>	175	9 5/8 x 11	7	111	50.5
	15.30	<b>15.30</b>	15.70	<b>B2</b>		12.30		12.60	<b>F4B</b>					
	15.80	<b>16.00</b>	16.25	<b>A1</b>		12.60	<b>12.75</b>	12.90	<b>D4</b>					
	16.40		16.80	<b>E5</b>		13.20	<b>13.20</b>	13.60	<b>B2</b>					
						13.80	<b>14.00</b>	14.10	<b>A1</b>					
						14.10		14.35	<b>E5</b>					

All dimensions are in inches.

## CAST COUPLING CONFIGURATIONS:

- 1406R:** Enamel coated Center Sleeve and End Rings, Stainless Steel Fasteners.
- 1408R:** Enamel coated Center Sleeve and End Rings, HSLA Steel Fasteners.
- 1506R:** Epoxy coated Center Sleeve and End Rings, Stainless Steel Fasteners.
- 1507R:** Epoxy coated Center Sleeve and End Rings, Epoxy coated HSLA Steel Fasteners, complete with Zinc Anodes.
- 1508R:** Epoxy coated Center Sleeve and End Plates, HSLA steel fasteners.
- 1519R:** Epoxy coated Center Sleeve and End Rings, Epoxy coated HSLA Steel Fasteners, complete with 1/4" Zinc plated cap screw designed for cathodically protected applications.

Note: \* The pipe OD or the end plate combination code is used when ordering.  
 \*\* Shipping weights are approximate and vary according to configuration.  
 - Recommended torque to 70-80 ft. lbs.



Couplings do not prevent pipe pullout. Suitable restraint should be used when required.

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# CAST DUCTILE IRON COUPLINGS REDUCING COUPLING SELECTION TABLE

NOM. PIPE SIZE	LARGE END				BY X	SMALL END				MAX. PRESSURE (Working) LBS./IN. <sup>2</sup>	NUMBER OF FASTENERS DIA. X LENGTH	SLEEVE LENGTH IN.	SHIPPING WEIGHT**	
	RANGE			END CODE		RANGE			END CODE				LBS.	KG.
	LOW	PIPE OD (Actual)	HIGH*			LOW	PIPE OD (Actual)	HIGH*						
16					X	14.60		14.90	F2	150	10 5/8 x 11	7	124	56.4
	17.40	17.40	17.80	B2		15.30	15.30	15.70	B2					
	17.80	18.00	18.20	A1		15.80	16.00	16.25	A1					
	18.40		18.80	E5		16.40		16.80	E5					
18	18.80		19.20	B1	X	17.40	17.40	17.80	B2	150	12 5/8 x 11	7	124	60.0
	19.10	19.50	19.70	A2		17.80	18.00	18.20	A1					
	19.70	20.00	20.25	E5		18.40		18.80	E5					
20	20.80		21.35	B1	X	17.40	17.40	17.80	B2	150	12 5/8 x 11	7	161	73.2
	21.35	21.60	21.75	A2		17.80	18.00	18.20	A1					
	21.75	22.00	22.25	E5		18.40		18.80	E5					
20	20.80		21.35	B1	X	18.80		19.20	B1	150	12 5/8 x 11	7	156	70.9
	21.35	21.60	21.75	A2		19.10	19.50	19.70	A2					
	21.75	22.00	22.25	E5		19.70	20.00	20.25	E5					
22	22.95		23.35	B1	X	17.40	17.40	17.80	B2	150	13 5/8 x 11	7	272	123.6
	23.45		23.85	A2		17.80	18.00	18.20	A1					
	23.75	24.00	24.25	E5		18.40		18.80	E5					
22	22.95		23.35	B1	X	18.80		19.20	B1	150	13 5/8 x 11	7	268	121.8
	23.45		23.85	A2		19.10	19.50	19.70	A2					
	23.75	24.00	24.25	E5		19.70	20.00	20.25	E5					
22	22.95		23.35	B1	X	20.80		21.35	B1	150	13 5/8 x 11	7	275	125
	23.45		23.85	A2		21.35	21.60	21.75	A2					
	23.75	24.00	24.25	E5		21.75	22.00	22.25	E5					
24	25.70	25.80	26.00	A2	X	22.95		23.35	B1	150	14 5/8 x 15	10	300	136.4
	26.10		26.32	E5		23.45		23.85	A2					
						23.75	24.00	24.25	E5					

All dimensions are in inches.

## HOW TO ORDER:

Determine the product number (**1408R**, etc.) and pipe OD or end plate combination for each end of the coupling (see page 1.2.1, 1.2.2), and then use the appropriate ordering code as shown in the following example.

To couple a 8" Ductile pipe (9.05" OD) to a 6" C900 PVC pipe (6.90" OD), the ordering code is:

**1408R** - 9.05" x 6.90" i.e. **1408R - 9.05 x 6.90**  
 product OD (Actual) OD (Actual) or **1408R - 8A1 x 6A1**  
 number

Note: \* The pipe OD or the end plate combination code is used when ordering.

\*\* Shipping weights are approximate and vary according to configuration.

- Recommended torque to 70-80 ft. lbs.
- Restraint is strongly recommended for reducing couplings.

## CAUTION



Couplings do not prevent pipe pullout. Suitable restraint should be used when required.

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