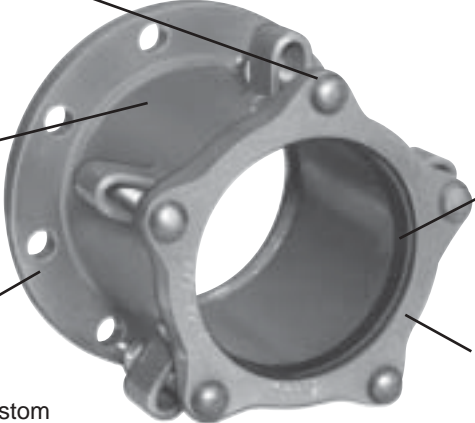


# Ford Steel Flange Coupling Adapters

## Style FCA

Ford Steel Flange Coupling Adapters are used to connect plain end pipe to flanged fittings such as meters or valves. Thrust protection must be provided to prevent the pipe from blowing out of the adapter. Optional restrainers or anchor studs are offered as thrust protection. Fabricated Steel Flange Coupling Adapters are normally furnished with flange size matching the nominal pipe size; however, reduced flange sizes are available. For example, a 16" FCA may be ordered with a 12" flange.



**Bolts and Nuts** - High strength low alloy steel per ASTM A242 and AWWA C-111  
 Optional: - Type 304 Stainless Steel  
 - Type 316 Stainless Steel  
 - Electro-Galvanized Steel

**Finish** - Black Shop Coat  
 Optional: Epoxy coating

**Body Sleeve** - ASTM A36 Carbon Steel

**Gasket** - SBR Rubber  
 Optional: - Buna-N  
 - EPDM

**Anchor Studs (Optional)** - Cold Rolled Steel per ASTM 1141

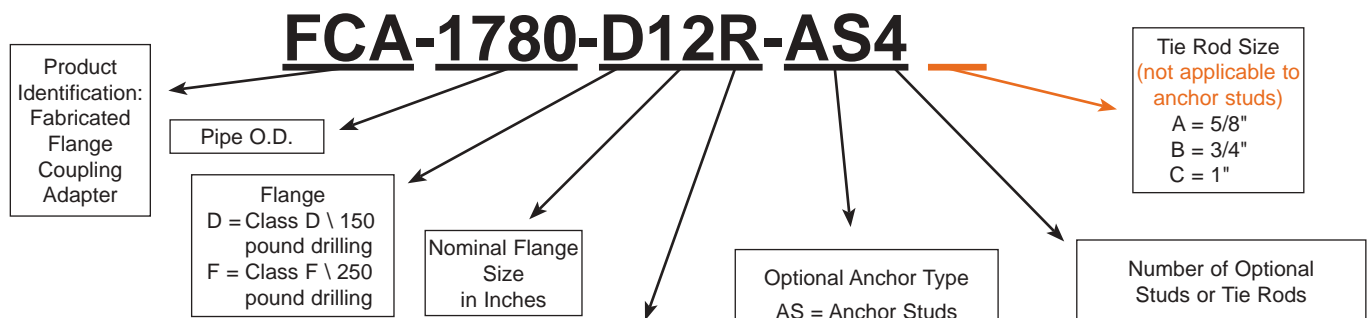
**End Ring** - 4" - 20" per ASTM A536 Ductile Iron; 24" - 60" AISI 1018-1020 Cold Rolled or Extruded Carbon Steel

**Flange** - AWWA C207 Class D Flange.  
 Optional: Other AWWA, ISO, DIN or custom flanges are available

**Caution: Flexible couplings do not restrain axial pipe movement.  
 Unbalanced forces caused by internal water pressure or external forces must be properly restrained.**

### How to order FCA couplings:

Orders may be placed by using catalog numbers from pages 24 and 25, which designate the pipe O.D. and flange size. If the pipe size or desired options are not listed, use the code system detailed below to create the catalog number. Each field of the number is significant in determining exactly how the coupling will be manufactured. The example shown below is an FCA-1780-D12R-AS4. This steel reducing flanged coupling adapter is made to fit a range of pipe sizes from 17.40" to 17.80" and has a 12" AWWA Class D flange. The four anchor studs on this unit will prevent pipe movement up to a maximum operating pressure of 175 PSI.



COATING, BOLTS AND GASKET OPTIONS				
COATING AND BOLT COMBINATIONS				
GASKET MATERIAL	Standard Alloy Bolts	304 Stainless Steel Bolts	316 Stainless Steel Bolts	Electro Galvanized Bolts
<b>Standard Shop Coat</b>				
SBR Rubber	R	X	Q	G
Buna-N Rubber	N	H	J	F
EPDM Rubber	S	M	V	W
<b>Epoxy Coated</b>				
SBR Rubber	E	Y	Z	K
Buna-N Rubber	C	P	T	O
EPDM Rubber	A	B	D	L

Note: See item listings in catalog section to assure that desired sizes and options are available

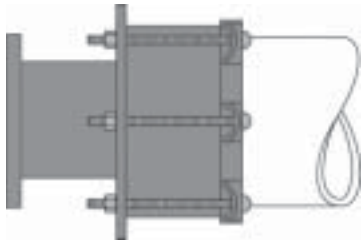
Please contact the Ford Customer Service Department for information about anchor studs or other restraint requirements for your specific application.

\* Restrainer harness assemblies are manufactured to a specific pipe O.D. **Please include the specific pipe O.D. on order.** See Ford Restrainer Assemblies (page 30) for more information.

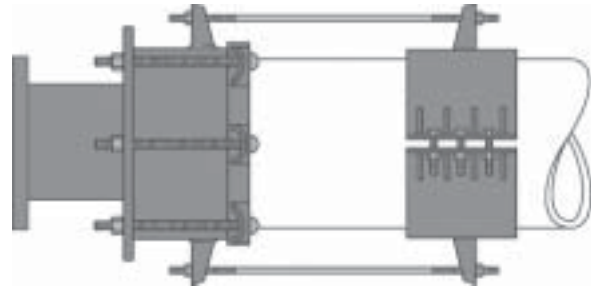
# Ford Steel Flange Coupling Adapters

Style FCA

Example of Part Number System

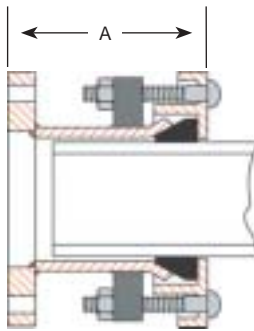


**FCA-1146-D8R**  
Reducing FCA Coupling



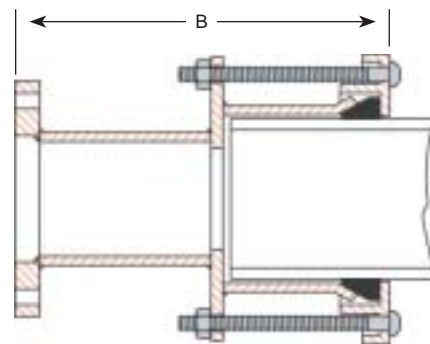
**FCA-1110-D8R-R22A**  
Reducing FCA Coupling with Optional  
Restrainer Lug and Harness Assembly.  
Note: Exact pipe O.D. is required to ensure  
proper harness size.

## Dimension Chart



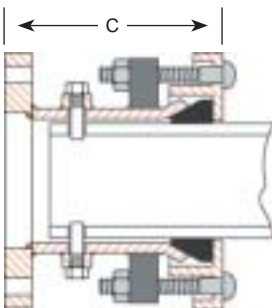
**Standard FCA Coupling.**

Pipe Size	"A" Dimension
4" - 6"	8.5"
8" - 48"	11.5"



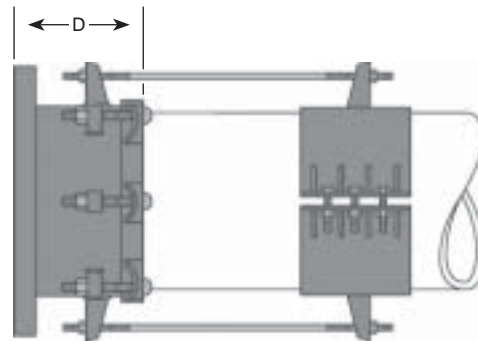
**Reducing FCA Coupling.**

Pipe Size	"B" Dimension
4" - 48"	13.5"



**FCA Coupling with (AS)  
Optional Anchor Studs.**  
(For ductile iron or steel pipe  
Anchor Studs require drilling of pipe)

Pipe Size	"C" Dimension
4" - 6"	11.5"
8" - 48"	13.5"



**FCA Coupling with (R2) Optional  
Restrainer Lug and Harness Assembly.**

Pipe Size	"D" Dimension
4" - 6"	13.5"
8" - 48"	15.5"

# Ford Steel Flange Coupling Adapters

## Style FCA

*Listed below are the common sizes of FCA couplings.*

If your pipe O.D. is not in the listed ranges, use the code system to *create* your catalog number. (See page 22).

Ductile Iron Flange Coupling Adapters are detailed in catalog section M.

NOM. PIPE SIZE	PIPE O.D.	FLANGE SIZE	RANGE (COUPLING END)	CATALOG NUMBER	RATED WORKING PRESSURE	NUMBER OF END RING BOLTS	APPROX. WT. LBS.
4"	4.00	4	4.00	FCA-400-D4R	175	3	-
	4.50	4	4.50-4.80	FCA-480-D4R	175	3	21
	4.80	4	4.50-4.80	FCA-480-D4R	175	3	21
6"	6.00	4	6.00	FCA-600-D4R	175	4	-
	6.00	6	6.00	FCA-600-D6R	175	4	-
	6.63	4	6.63-6.90	FCA-690-D4R	175	4	-
	6.63	6	6.63-6.90	FCA-690-D6R	175	4	35
	6.90	4	6.63-6.90	FCA-690-D4R	175	4	-
	6.90	6	6.63-6.90	FCA-690-D6R	175	4	-
	8"	8.63	4	8.63-9.05	FCA-905-D4R	175	5
8.00		6	8.00	FCA-800-D6R	175	5	-
8.00		8	8.00	FCA-800-D8R	175	5	-
8.63		6	8.63-9.05	FCA-905-D6R	175	5	-
8.63		8	8.63-9.05	FCA-905-D8R	175	5	45
9.05		4	8.63-9.05	FCA-905-D4R	175	5	-
9.05		6	8.63-9.05	FCA-905-D6R	175	5	-
9.05		8	8.63-9.05	FCA-905-D8R	175	5	45
10"		10.00	8	10.00	FCA-1000-D8R	175	6
	10.00	10	10.00	FCA-1000-D10R	175	6	-
	10.75	6	10.75	FCA-1075-D6R	175	6	-
	10.75	8	10.75	FCA-1075-D8R	175	6	-
	10.75	10	10.75	FCA-1075-D10R	175	6	57
	11.10	6	11.10-11.46	FCA-1146-D6R	175	6	-
	11.10	8	11.10-11.46	FCA-1146-D8R	175	6	-
12"	11.10	10	11.10-11.46	FCA-1146-D10R	175	6	57
	12.00	10	12.00	FCA-1200-D10R	175	7	-
	12.00	12	12.00	FCA-1200-D12R	175	7	-
	12.75	8	12.75	FCA-1275-D8R	175	7	-
	12.75	10	12.75	FCA-1275-D10R	175	7	-
	12.75	12	12.75	FCA-1275-D12R	175	7	79
	13.20	8	13.20-13.56	FCA-1356-D8R	175	7	-
	13.20	10	13.20-13.56	FCA-1356-D10R	175	7	-
	13.20	12	13.20-13.56	FCA-1356-D12R	175	7	79
14"	14.00	10	13.69-14.04	FCA-1404-D10R	175	9	-
	14.00	12	13.69-14.04	FCA-1404-D12R	175	9	-
	15.30	10	15.30-15.70	FCA-1570-D10R	175	9	-
	15.30	12	15.30-15.70	FCA-1570-D12R	175	9	-
	15.30	14	15.30	FCA-1530-D14R	150	9	103
16"	16.00	12	16.00-16.35	FCA-1635-D12R	175	10	-
	16.00	14	16.00-16.35	FCA-1635-D14R	150	10	-
	16.00	16	16.00	FCA-1600-D16R	150	10	-
	17.40	12	17.40-17.80	FCA-1780-D12R	175	10	-
	17.40	14	17.40-17.80	FCA-1780-D14R	150	10	-
	17.40	16	17.40	FCA-1740-D16R	150	10	134
	17.80	16	17.80	FCA-1780-D16R	150	10	135

# Ford Steel Flange Coupling Adapters

Style FCA

*Listed below are the common sizes of FCA couplings.*

If your pipe O.D. is not in the listed ranges, use the code system to create your catalog number. (See page 22).

Ductile Iron Flange Coupling Adapters are detailed in catalog section M.

NOM. PIPE SIZE	PIPE O.D.	FLANGE SIZE	RANGE (COUPLING END)	CATALOG NUMBER	RATED WORKING PRESSURE	NUMBER OF END RING BOLTS	APPROX. WT. LBS.
18"	18.00	14	18.00	FCA-1800-D14R	150	11	-
	18.00	16	18.00	FCA-1800-D16R	150	11	-
	18.00	18	18.00	FCA-1800-D18R	150	11	142
	19.50	14	19.50-20.00	FCA-2000-D14R	150	11	-
	19.50	16	19.50-20.00	FCA-2000-D16R	150	11	-
	19.50	18	19.50	FCA-1950-D18R	150	11	-
20"	20.00	16	19.50-20.00	FCA-2000-D16R	150	11	-
	20.00	18	19.50-20.00	FCA-2000-D18R	150	11	-
	20.00	20	20.00	FCA-2000-D20R	150	12	-
	21.60	16	21.60-22.06	FCA-2206-D16R	150	12	-
	21.60	18	21.60-22.06	FCA-2206-D18R	150	12	-
	21.60	20	21.60	FCA-2160-D20R	150	12	164
24"	22.06	24	22.06	FCA-2206-D20R	150	12	-
	24.00	18	24.00	FCA-2400-D18R	150	14	-
	24.00	20	24.00	FCA-2400-D20R	150	14	-
	24.00	24	24.00	FCA-2400-D24R	150	14	204
	25.80	18	25.80	FCA-2580-D18R	150	14	-
	25.80	20	25.80	FCA-2580-D20R	150	14	-
30"	25.80	24	25.80	FCA-2580-D24R	150	14	210
	30.00	20	30.00	FCA-3000-D20R	150	16	-
	30.00	24	30.00	FCA-3000-D24R	150	16	-
	30.00	30	30.00	FCA-3000-D30R	150	16	331
	32.00	20	32.00	FCA-3200-D20R	150	16	-
	32.00	24	32.00	FCA-3200-D24R	150	16	-
36"	32.00	30	32.00	FCA-3200-D30R	150	16	-
	36.00	24	36.00	FCA-3600-D24R	150	18	-
	36.00	30	36.00	FCA-3600-D30R	150	18	-
	36.00	36	36.00	FCA-3600-D36R	150	18	419
	38.30	24	38.30	FCA-3830-D24R	150	18	-
	38.30	30	38.30	FCA-3830-D30R	150	18	-
42"	38.30	36	38.30	FCA-3830-D36R	150	18	427
	42.00	30	42.00	FCA-4200-D30R	150	20	-
	42.00	36	42.00	FCA-4200-D36R	150	20	-
	42.00	42	42.00	FCA-4200-D42R	150	20	553
	44.50	30	44.50	FCA-4450-D30R	150	20	-
	44.50	36	44.50	FCA-4450-D36R	150	20	-
48"	44.50	42	44.50	FCA-4450-D42R	150	20	-
	48.00	36	48.00	FCA-4800-D36R	150	24	-
	48.00	42	48.00	FCA-4800-D42R	150	24	-
	48.00	48	48.00	FCA-4800-D48R	150	24	-
	50.80	36	50.80	FCA-5080-D36R	150	24	-
	50.80	42	50.80	FCA-5080-D42R	150	24	-
	50.80	48	50.80	FCA-5080-D48R	150	24	657