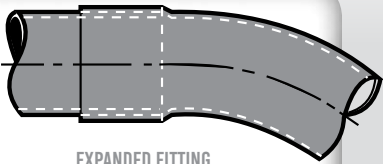


METHODS OF JOINING

All reference dimensions are nominal



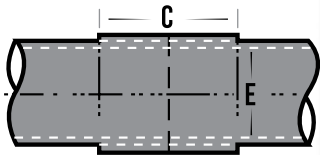
EXPANDED FITTING

EXPANDED FITTING

Zinc-Coated (Galvanized) Steel. This type of connection enables a straight section of tubing to slip inside the expanded end of the fitting. The two pieces can then be "locked" together by any one of several techniques - brazing, welding, industrial adhesive, or shrink sleeves. For use in low pressure (under 15 PSIG) systems.

STANDARD SOLID SLEEVES

Zinc-Coated (Galvanized) Steel. Can be used for joining any two straight ends of tubing or fittings. The solid sleeve is a slip coupling that fits the OD of the joint which can then be glued, brazed, welded, or covered by a shrink sleeve. For use in low pressure (under 15 PSIG) systems.

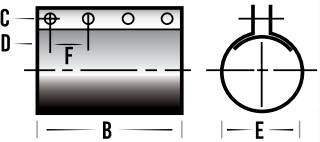


SOLID SLEEVE

E-ID	C-LENGTH	GAUGE	PART #
2-1/4"	3-1/2"	20	29003
3"	4"	18	39003
4"	5"	16	49003
4-1/2"	5"	16	45003
6"	6"	16	69003
4"x 7"	6"	16	79003

CLAMP SLEEVES OR COMPRESSION COUPLINGS

Zinc-Coated (Galvanized) Steel. Offers easy "tear down" function. Straight end tubing or fittings butt together within the ID of the coupling or sleeve, and the joint is mechanically locked simply by tightening the bolts which are included. For use in low pressure (under 15 PSIG) systems.



CLAMP SLEEVE

STANDARD CLAMP SLEEVES

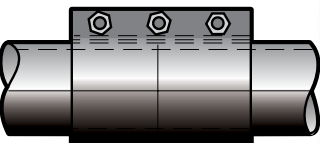
Zinc-Coated (Galvanized) Steel. Bolt holes are 9/32". Nuts and bolts are inserted in sleeve. For use in low pressure (under 15 PSIG) systems.

E-ID	B-LENGTH	C-NO. OF HOLES	D*	F**	GAUGE	PART #
2-1/4"	4"	3	1/2"	1-1/2"	20	CS-290
3"	4"	3	1/2"	1-1/2"	20	CS-390
4"	5"	4	1/4"	1-3/8"	20	CS-490
4-1/2"	5"	4	1/4"	1-3/8"	20	CS-450
6"	5-7/8"	4	5/16"	1-11/16"	18	CS-690
4"x 7"	5-7/8"	4	5/16"	1-11/16"	16	CS-790

*Dimension D = Distance center outside hole to end ** Dimension F = Distance between center of holes

COMPRESSION COUPLINGS

Zinc-Coated (Galvanized) Steel. With black neoprene liner & stainless steel grounding strip. For use in low pressure (under 15 PSIG) systems.



COMPRESSION COUPLING

Additional sizes available upon request

FOR TUBE - OD SIZE	NO. OF BOLTS - LENGTH	C NUMBER	PART #
2-1/4"	3	6"	22503B10
3"	3	6"	30003B10
4"	3	6"	40003B10
4-1/2"	3	6"	45003B10
6"	3	6"	60003B10
6"	4	8"	60004B10

*Dimension D = Distance center outside hole to end ** Dimension F = Distance between center of holes

KEY

OD.....Outside Diameter
 EXP.....Expansion
 ID.....Inside Diameter
 CLR.....Center Line Radius
 TAN.....Tangent

Catalog Part Variations Available Upon Request

Give us a call if you can't find exactly what you need!