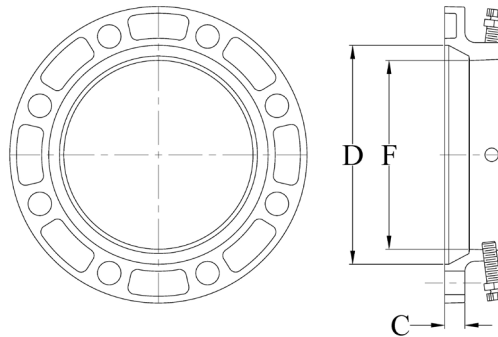


27U — AWWA C111/A21.11 DUCTILE IRON ADAPTER FLANGE

Revised 02/2025 (Current revisions for the noted Standards apply)

SIZES:	3"–12" — Recommended for use with Class 53–Class 56 ductile iron pipe.
STANDARDS:	ANSI/AWWA C110/A21.10, ANSI/AWWA C111/A21.11, UL listed and FM approved.
MATERIAL:	Cast of ASTM A536 qualified ductile iron. Date code is cast on and required for traceability.
PRESSURE RATING:	Flanged fittings 3"–10" rated at 250 psi and 12" rated at 150 psi.
DEFLECTION:	Max joint deflection 2°, reduces by 50% at nominal pipe and fitting diameters.
NSF-61 & NSF372:	Meets all requirements, including Annex G, Tyler Union's Underwriters Laboratory listing MH16439.
COATING:	Tnemec Pota Pox N140-1211.
BOLTS:	ANSI/AWWA C110/A21.10 and ANSI/AWWA C111/A21.11, for assembly use AWWA C110 length hex head bolts. The torque head bolts are socket head and with Type C knurled cup points, 4140 grade alloy steel that is heat treated to a Rockwell "C" 45/53 case hardness and shipped assembled in the adapter. Torque head will break off at 80–90 ft-lb.
INSTALLATION:	Install per Tyler Union instructions below.



ADAPTER FLANGE DIMENSIONS IN INCHES

Size	Rated Working Pressure	No. of Set Screws	Bolt Circle	D.I.	Pipe O.D.	D + .06 – .04	F + .07 – .03	C	Weight
				+ .06 / - .06					
3	3	4	6.00	3.96		4.64	4.06	0.94	7
4	4	4	7.50	4.80		6.02	4.90	1.00	10
6	6	8	9.50	6.90		8.12	7.00	1.06	14
8	8	8	11.75	9.05		10.27	9.15	1.12	22
10	10	12	14.25	11.10		12.34	11.20	1.19	30
12	12	12	17.00	13.20		14.44	13.30	1.25	40

INSTALLATION

- Place adapter flange and the gasket over the plain end of the pipe with the small side of the MJ gasket facing the flange side of the adapter flange.
- Place the pipe end against the flange to be joined and slip the MJ gasket into place against the flange. Make sure the gasket is evenly seated against the flange.
- Slide the adapter flange into position against the small (tapered) side of the MJ gasket and align the bolt holes. Insert the bolts and finger tighten the nuts to maintain position and alignment.
- Snug up all nuts evenly, alternating 180°. Tighten the nuts to a torque of 60 ft-lb for 3" and 90 ft-lb for 4"–12".
- Snug set screws evenly, alternating 180°, tighten set screws to 80–90 ft-lb.