

German – DIN 12° Seat

German DIN 12° / 24° Connection Types / Identification

DIN 12 / 24 Connections were originated in Germany, but may be found on equipment manufactured throughout Europe. The DIN 12 / 24 Male will mate with any of three female connections: 12 / 24 Female DKO (cone with O-Ring), Universal Cone, and Female Tube Assembly. The latter (Tube Assembly) is one of the most common forms: a metric bite-type tube connection (body, nut & sleeve).

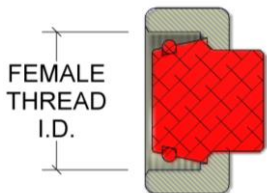
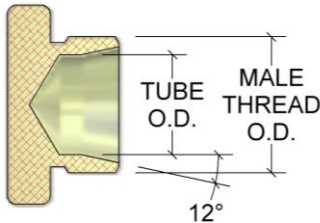
Din 12/24 Connections are divided into three series: Extra Light (LL), Light (L) and Heavy Series (S), determined by pressure and application.

Measurement Procedure

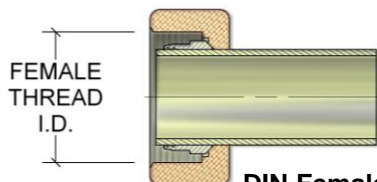
1. With calipers, measure the O.D. (outside diameter) of the Male threads or the I.D. (inside diameter) of the Female Threads.
2. Check the tube size – internal bore of Male or tube O.D. of Female.
3. Check the thread pitch with the thread pitch gauge.
4. Check the flare angle (12°) with a seat angle gauge.
5. Compare measurements against chart.

“LL” Tube O.D.	“L” Tube O.D.	“S” Tube O.D.	Thread Pitch	Male Thread O.D. (mm)	Female Thread I.D. (mm)
4	°	°	1.0	8	6.5
6	°	°	1.0	10	8.5
8	°	°	1.0	12	10.5
10	°	°	1.0	14	12.5
12	°	°	1.0	16	14.5
°	6	°	1.5	12	10.5
°	8	6	1.5	14	12.5
°	10	8	1.5	16	14.5
°	12	10	1.5	18	16.5
°	°	12	1.5	20	18.5
°	15	14	1.5	22	20.5
°	°	16	1.5	24	22.5
°	18	°	1.5	26	24.5
°	22	20	2.0	30	28
°	28	25	2.0	36	34
°	°	30	2.0	42	40
°	35	°	2.0	45	43
°	42	38	2.0	52	50

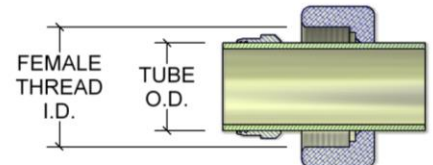
DIN Male 12° Cone



DIN Female “DKO” Style
12 Cone Seat (with O-Ring)



DIN Female
Universal Cone



DIN Female Tube Assembly