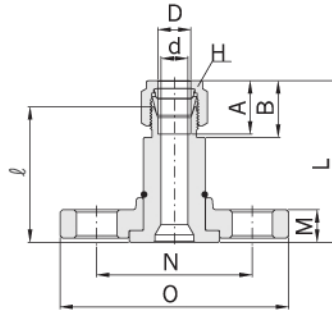




## Integral ANSI Flange Connector

# AIAF



## Connects Fractional Tubes

Part No.	Tube O.D. D		ANSI Flange NPS	ANSI Class	d min	H		A	B	M	N	ℓ	L	O	
	in	mm				Width across flat									
						in	mm								
AIAF - 0808F -R	1/2	12.70	1/2	150	10.41	7/8	22.22	22.86	21.84	15.7	60.5	52.7	62.72	88.9	
AIAF - 0808G -R	1/2	12.70	1/2	300	10.41	7/8	22.22	22.86	21.84	22.4	66.5	62.2	72.22	95.3	
AIAF - 1208F -R	3/4	19.05	1/2	150	15.74	1-1/8	28.57	24.38	21.84	15.7	60.5	62.2	72.22	88.9	
AIAF - 1208G -R	3/4	19.05	1/2	300	15.00	1-1/8	28.57	24.38	21.84	22.4	66.5	62.2	72.22	95.3	
AIAF - 1212F -R	3/4	19.05	3/4	150	15.74	1-1/8	28.57	24.38	21.84	15.7	69.9	53.0	62.99	98.6	
AIAF - 1212G -R	3/4	19.05	3/4	300	15.74	1-1/8	28.57	24.38	21.84	25.4	82.6	62.2	72.22	117.3	
AIAF - 1212I -R	3/4	19.05	3/4	600	15.74	1-1/8	28.57	24.38	21.84	25.4	82.6	67.5	77.72	117.3	
AIAF - 1216F -R	3/4	19.05	1	150	15.74	1-1/8	28.57	24.38	21.84	17.5	79.2	54.3	64.29	108.0	
AIAF - 1216G -R	3/4	19.05	1	300	15.74	1-1/8	28.57	24.38	21.84	26.9	88.9	63.8	73.82	124.0	
AIAF - 1612F -R	1	25.40	3/4	150	20.00	1-1/2	38.10	31.24	26.41	15.7	69.9	54.9	67.06	98.6	
AIAF - 1616F -R	1	25.40	1	150	22.35	1-1/2	38.10	31.24	26.41	17.5	79.2	56.5	68.76	108.0	
AIAF - 1616G -R	1	25.40	1	300	22.35	1-1/2	38.10	31.24	26.41	26.9	88.9	66.0	78.26	124.0	
AIAF - 1616I -R	1	25.40	1	600	22.35	1-1/2	38.10	31.24	26.41	26.9	88.9	73.5	85.76	124.0	
AIAF - 1624G -R	1	25.40	1 1/2	300	22.35	1-1/2	38.10	31.24	26.41	30.2	114.3	73.0	85.26	155.4	

## Pressure-Temperature Ratings

Ratings are taken from ASME 816.5-2003, Table 2-2.2 and Table F2-2.2

Pressure ratings for fittings with a flange end connection and another end connection are determined by the connection with the lower pressure rating.

### Working Pressure by Classes, bar

Temperature °C	ASME Class						
	150	300	400	600	900	1500	2500
-29 to 38	19.0	49.6	66.2	99.3	148.9	248.2	413.7
50	18.4	48.1	64.2	96.2	144.3	240.6	400.9
100	16.2	42.2	56.3	84.4	126.6	211.0	351.6
150	14.8	38.5	51.3	77.0	115.5	192.5	320.8
200	13.7	35.7	47.6	71.3	107.0	178.3	297.2
250	12.1	33.4	44.5	66.8	100.1	166.9	278.1
300	10.2	31.6	42.2	63.2	94.9	158.1	263.5
325	9.3	30.9	41.2	61.8	92.7	154.4	257.4
350	8.4	30.3	40.4	60.7	91.0	151.6	252.7
375	7.4	29.9	39.8	59.8	89.6	149.4	249.0
400	6.5	29.4	39.3	58.9	88.3	147.2	245.3
425	5.5	29.1	38.9	58.3	87.4	145.7	242.9
450	4.6	28.8	38.5	57.7	86.5	144.2	240.4
475	3.7	28.7	38.2	57.3	86.0	143.4	238.9
500	2.8	28.2	37.6	56.5	84.7	140.9	235.0
538	1.4	25.2	33.4	50.0	75.2	125.5	208.9

### Working Pressure by Classes, psig

Temperature °F	ASME Class						
	150	300	400	600	900	1500	2500
-20 to 100	275	720	960	1440	2160	3600	6000
200	235	620	825	1240	1860	3095	5160
300	215	560	745	1120	1680	2795	4660
400	195	515	685	1025	1540	2570	4280
500	170	480	635	955	1435	2390	3980
600	140	450	600	900	1355	2255	3760
650	125	440	590	885	1325	2210	3680
700	110	435	580	870	1305	2170	3620
750	95	425	570	855	1280	2135	3560
800	80	420	565	845	1265	2110	3520
850	65	420	555	835	1255	2090	3480
900	50	415	555	830	1245	2075	3460
950	35	385	515	775	1160	1930	3220
1000	20	365	485	725	1090	1820	3030

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.