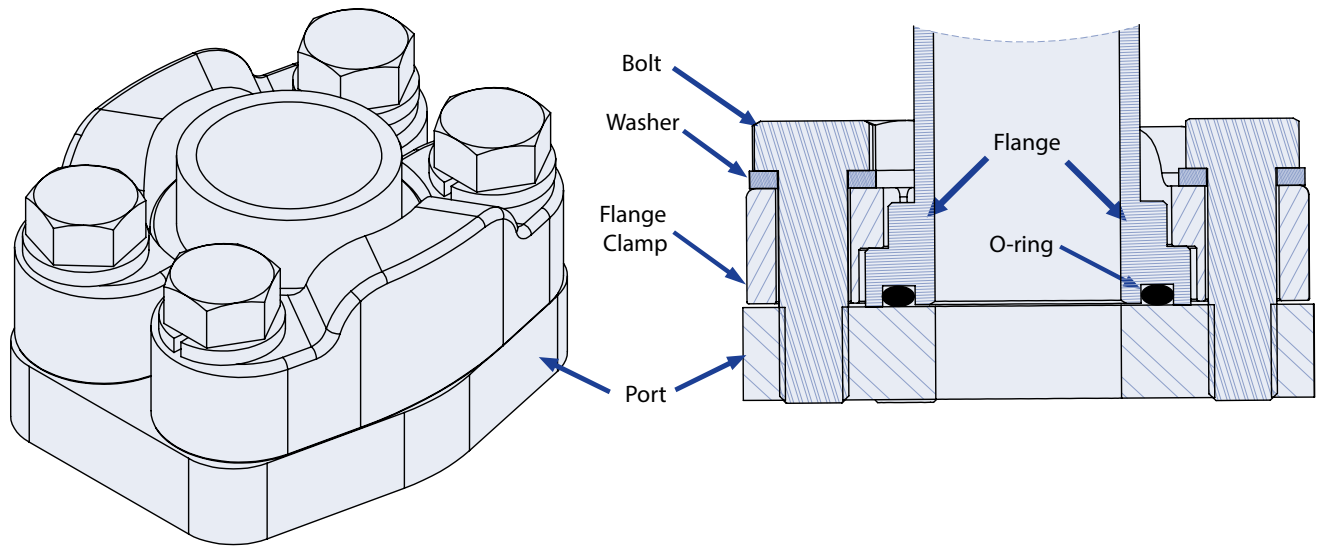


# Code 61 & 62 Flange Specifications

Flange ports have a smooth machined surface with four threaded holes around the port. The threads provide a clamping force for the flange against the port. An O-ring seal is trapped in the flange fitting around the port. *(Figure 12)*



**Figure 12 : Flange Port Assembly (Left) Cross Section Flange Port Assembly (Right)**

The flange may be a single piece or an assembly (single piece flange is not shown). A single flange piece has four holes that mate with the clamping holes. The assembly flange is a cylindrical shape and is clamped with a full circle flange clamp containing four bolt holes, or with two split flange clamps containing two bolt holes each. *(Figure 12)*

There are two pressure-rated standards:

- Code 61 (Standard Pressure)
- Code 62 (High Pressure)

Each style and size has a unique bolt pattern. The high pressure Code 62 assembly flanges have a larger diameter and thickness than the standard pressure Code 61 flanges.

## Code 61 (Standard Pressure) Flanges

The following table lists the specifications for Code 61 flanges.

Flange Code 61 Specifications				
Dash Size	Tube Size	Working Pressure	Torque*	Torque**
		(psi)	+10%- 0% (ft-lbs)	+10%- 0% (ft-lbs)
08	1/2	5000	18	24
12	3/4	5000	32	44
16	1	5000	32	44
20	1 1/4	4000	52	68
24	1 1/2	3000	77	111
32	2	3000	77	111
40	2 1/2	2500	77	111
48	3	2000	155	217
56	3 1/2	500	155	217
64	4	500	155	217

Torque values are per SAE J2593 and for wet installation of steel components. Reduce torque values for softer material components.

\* Torque for SAE Grade 5 Screws  
 \*\* Torque for SAE Grade 8 Screws

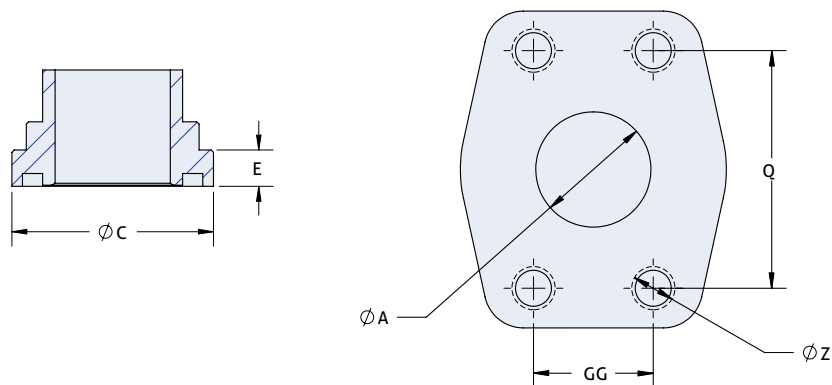
**Table 5: Flange Code 61 Specifications**

The following table lists the dimensions for Code 61 flanges.

Flange Code 61 Dimensions								
Dash Size	Tube Size	C	E	Q	GG	A	Z INCH Threads	Z METRIC Threads
08	1/2	1.188	0.265	1.5	0.688	0.50	5/16-18	M8 x 1.25
12	3/4	1.500	0.265	1.875	0.875	0.75	3/8-16	M10 x 1.5
16	1	1.750	0.315	2.082	1.031	1.00	3/8-16	M10 x 1.5
20	1 1/4	2.000	0.315	2.312	1.188	1.25	7/16-14	M10 x 1.5
24	1 1/2	2.375	0.315	2.750	1.406	1.50	1/2-13	M12 x 1.75
32	2	2.812	0.375	3.062	1.688	2.00	1/2-13	M12 x 1.75
40	2 1/2	3.312	0.375	3.500	2.000	2.50	1/2-13	M12 x 1.75
48	3	4.000	0.375	4.188	2.438	3.00	5/8-11	M16 x 2
56	3 1/2	4.500	0.422	4.750	2.750	3.50	5/8-11	M16 x 2
64	4	5.000	0.442	5.125	3.062	4.00	5/8-11	M16 x 2

Hex head bolts are grade 5 and socket head cap bolts are grade 8.

**Table 6: Flange Code 61 Dimensions**



**Figure 13 : Code 61 and 62 Figures of the flange (Left) and bolt pattern (Right)**

## Code 62 (High Pressure) Flanges

The following table lists the specifications for Code 62 flanges.

Flange Code 62 Specifications					
Dash Size	Tube Size	Working Pressure	Torque Range*	Average Torque*	Torque**
		(psi)	(in-lbs)	(ft-lbs)	+10%-0% (ft-lbs)
08	1/2	6000	175-225	17	24
12	3/4	6000	300-400	29	44
16	1	6000	500-600	46	68
20	1 1/4	6000	750-900	69	111
24	1 1/2	6000	1400-1600	125	217
32	2	6000	2400-2600	208	332

Standards per SAE J2593 & J518

\*Torque for SAE Grade 5 Screws  
 \*\*Torque for SAE Grade 8 Screws

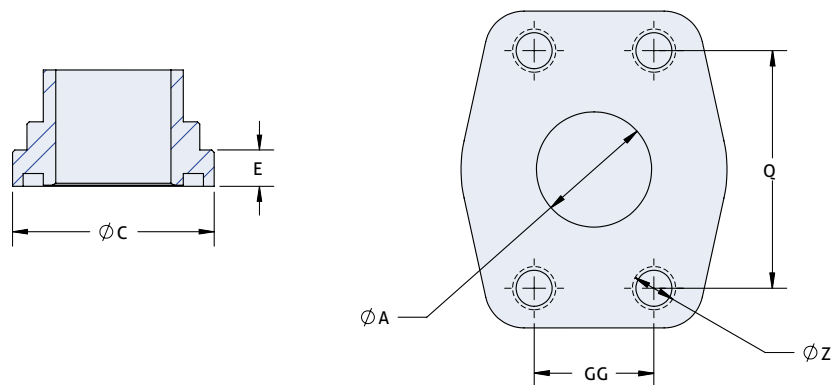
**Table 7: Flange Code 62 Specifications**

The following table lists the dimensions for Code 62 flanges.

Flange Code 62 Dimensions								
Dash Size	Tube Size	C	E	Q	GG	A	Z INCH Threads	Z METRIC Threads
08	1/2	1.250	0.305	1.594	0.718	0.50	5/16-18	M8 x 1.25
12	3/4	1.625	0.345	2.00	0.937	0.75	3/8-16	M10 x 1.5
16	1	1.875	0.375	2.250	1.093	1.00	7/16-14	M12 x 1.75
20	1 1/4	2.125	0.405	2.625	1.250	1.25	1/2-13	M14 x 2.0
24	1 1/2	2.500	0.495	3.125	1.437	1.50	5/8-11	M16 x 2.0
32	2	3.125	0.495	3.812	1.750	2.00	3/4-10	M20 x 2.5

Note: Hex head bolts are grade 5 and socket head cap bolts are grade 8.

**Table 8: Flange Code 62 Dimensions**



**Figure 13 : Code 61 and 62 Figures of the flange (Left) and bolt pattern (Right)**