



## Carbon Steel

### SAE J518 SPLIT/CAPTIVE FLANGES

#### **FOR SAE FLANGED HEAD CONNECTION**

CD 61 - CD 62 . . . . . 68

### SPLIT FLANGE HEAD ADAPTERS

CD 61 - CD 62 JIC THREAD . . . . . 69

CD 61 - CD 62 SAE STRAIGHT THREAD . . . . . 69

CD 61 - CD 62 ORFS THREAD . . . . . 70

CD 61 - CD 62 45° ELBOW JIC THREAD . . . . . 70

CD 61 - CD 62 45° ELBOW ORFS THREAD . . . . . 70

CD 61 - CD 62 90° ELBOW JIC THREAD . . . . . 71

CD 61 - CD 62 90° ELBOW ORFS THREAD . . . . . 71

CD 61 BUTT WELD-SCHED 40/SCHED 80/SCHED 160 . . . . . 73

CD 62 BUTT WELD-SCHED 80/SCHED 160/SCHED XXS . . . . . 73

CD 61 - CD 62 SOCKET WELD . . . . . 74

CD 61 NPTF THREAD . . . . . 74

CD 61 SAE THREAD . . . . . 74

CD 61 - CD 62 BRAZE-ON . . . . . 75

CD 61 - CD 62 FLANGE PLUG . . . . . 79

### SAE 4 BOLT FLANGES

CD 61 - CD 62 SPACER BLOCKS WITH GAGE PORT . . . . . 82

CD 61 - CD 62 BLANKING . . . . . 85

CD 61 - CD 62 NPTF . . . . . 87

CD 61 - CD 62 SAE THREAD . . . . . 89

CD 61 - CD 62 BSPP THREAD . . . . . 89

CD 61 - CD 62 MALE JIC . . . . . 90

CD 61 - CD 62 MALE ORFS . . . . . 91

CD 61 - CD 62 FLAT SOCKET WELD PIPE . . . . . 92

CD 61 - CD 62 FLAT SOCKET WELD TUBE . . . . . 93

CD 61 - CD 62 DEEP SOCKET WELD PIPE . . . . . 94

CD 61 - CD 62 DEEP SOCKET WELD TUBE . . . . . 95

CD 61 BUTT WELD-SCHED 40/SCHED 80/SCHED 160 . . . . . 96

CD 62 BUTT WELD-SCHED 80/SCHED 160/SCHED XXS . . . . . 97

CD 61 SADDLE WELD . . . . . 98

CD 61 TANK PILOT . . . . . 99

CD 61 - CD 62 ELBOW NPTF & SAE THREAD . . . . . 101

CD 61 ELBOW SOCKET WELD PIPE . . . . . 102

CD 62 ELBOW SOCKET WELD TUBE . . . . . 103

### SQUARE 4 BOLT FLANGES

3000 SERIES FLAT SOCKET WELD . . . . . 104

3000 SERIES NPTF THREAD . . . . . 104

6000 SERIES FLAT SOCKET WELD . . . . . 105

### MISCELLANEOUS COMPONENTS

CAT-STYLE SPLIT FLANGE . . . . . 78

CD 61 - CD 62 BRAZE-ON ORFS THREAD . . . . . 76

CD 61 - CD 62 BRAZE-ON JIC THREAD . . . . . 77

CD 61 - CD 62 CONNECTOR PLATES . . . . . 80

CD 61 - CD 62 CONNECTOR BLOCKS . . . . . 80

CD 61 - CD 62 DOUBLE O-RING UNION . . . . . 81

CD 61 - CD 62 ORIFICE PLATE . . . . . 83

CD 61 - CD 62 BOLT PATTERN ADAPTER . . . . . 84

CD 61 - CD 62 SHIPPING PLATES . . . . . 86

CD 61 - CD 62 TEE JUNCTION BLOCK . . . . . 100

O-RINGS . . . . . 118

## Stainless Steel

### SAE J518 SPLIT/CAPTIVE FLANGES

#### **FOR SAE FLANGED HEAD CONNECTION**

CD 61 - CD 62 . . . . . 108

### SAE 4 BOLT FLANGES

CD 61 - CD 62 NPTF . . . . . 109

CD 61 - CD 62 SAE THREAD . . . . . 110

CD 61 - CD 62 FLAT SOCKET . . . . . 111

CD 61 - CD 62 BLANKING . . . . . 112

CD 61 BUTT WELD-SCHED 40/SCHED 80/SCHED 160 . . . . . 113

CD 62 BUTT WELD-SCHED 80/SCHED 160/SCHED XXS . . . . . 114

CD 61 - CODE 62 ELBOW SOCKET WELD . . . . . 115

### SQUARE 4 BOLT FLANGES

3000 SERIES FLAT SOCKET WELD . . . . . 117

3000 SERIES NPTF THREAD . . . . . 117

### MISCELLANEOUS COMPONENTS

CD 61 - CD 62 TEE JUNCTION BLOCK . . . . . 116

*\*THE USE OF STAINLESS STEEL FASTENERS MAY REDUCE THE PRESSURE RATING OF THE ASSEMBLY.*

FLOW, NEEDLE & CHECK VALVES

HYDRAULIC BALL VALVES

WELD COUPLINGS

FLANGES

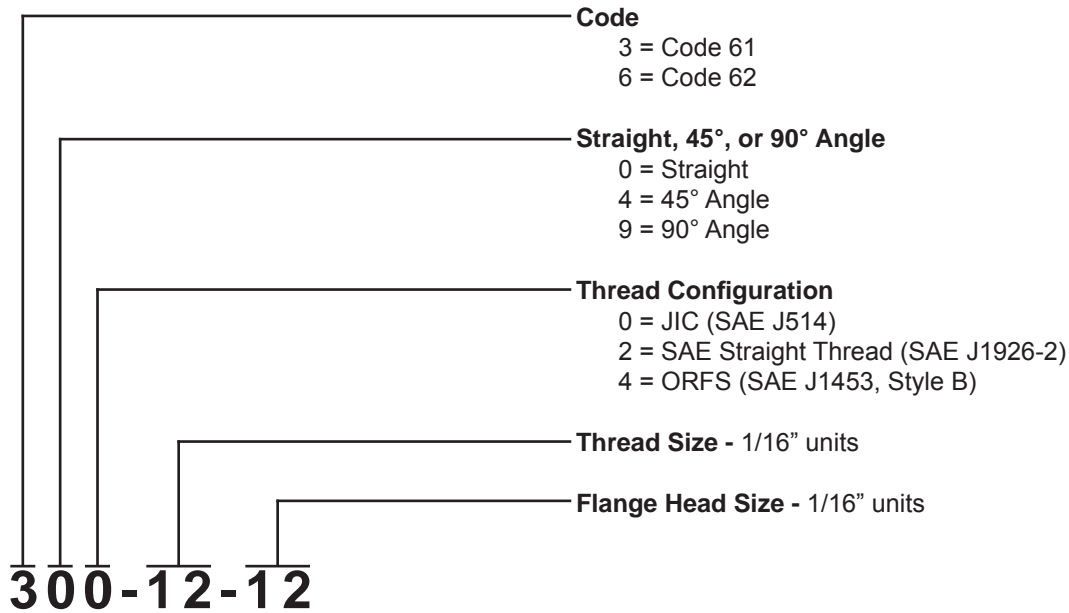
## Split Flange Adapters

FLOW, NEEDLE & CHECK VALVES

HYDRAULIC BALL VALVES

WELD COUPLINGS

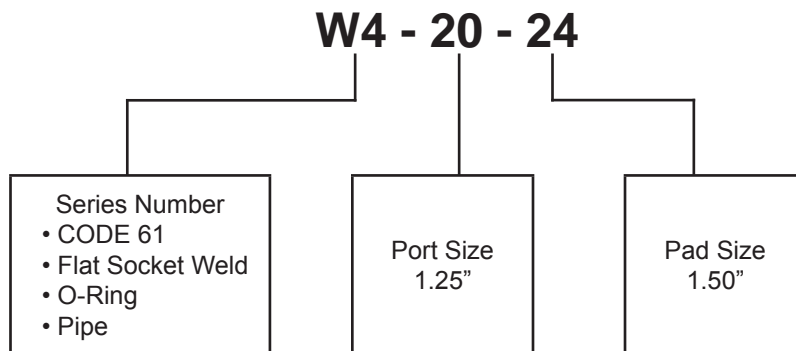
FLANGES



For additional jump sizes, please consult factory.

## Flanges

Our basic part numbering system is simple to use. The explanation of our part numbering system is detailed below. The series number provides the greatest amount of information pertaining to the flange product. The port size and pad size simply refer to size only, with all sizes based on 1/16 of an inch.



NOTE #1 – All items available with mounting kit by simply adding suffix letter “U”.

NOTE #2 – All items available in stainless steel material by simply adding the suffix letters “SS”.

NOTE #3 – All items available with metric mounting holes simply by adding the appropriate suffix (IE: M10, M12, etc.).

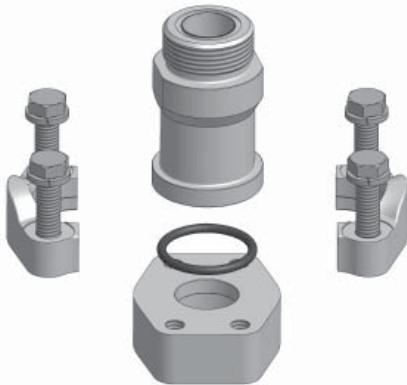
### Pressure Ratings of SAE Flanges

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	1/2"	5000	35	24	32
-12	3/4"	5000	35	44	70
-16	1"	4600	32	44	70
-20	1 1/4"	4000	28	68	70
-24	1 1/2"	3000	21	111	130
-32	2"	3000	21	111	130
-40	2 1/2"	2500	17.5	111	130
-48	3"	2300	16	218	295
-56	3 1/2"	500	3.5	218	295
-64	4"	500	3.5	218	295
-80	5"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	1/2"	6000	40	24	32
-12	3/4"	6000	40	44	70
-16	1"	6000	40	68	130
-20	1 1/4"	6000	40	111	130
-24	1 1/2"	6000	40	218	295
-32	2"	6000	40	332	550

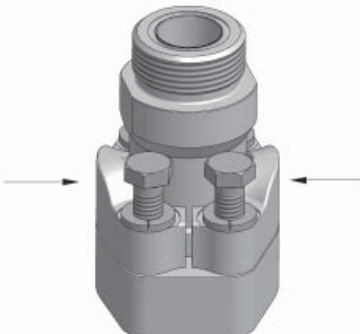
### Split Flange Clamp

**1** Clean the sealing surfaces and make certain they are free from nicks, scratches and burrs. Foreign material prevents a proper seal.



**2** Lubricate the o-ring and ensure that it is properly installed as to prevent damage during installation.

**3** Push the flange clamps towards the flange head and screw fasteners into flange pad. Continue to screw the fasteners until their heads just meet the split flange surface.



**4** Torque the fasteners in diagonal sequence, in small increments, until final torque level is achieved. Torque values for flange connections listed above. Notice that the torque values vary according to size and fastener type.



Anchor Fluid Power split flange connections are manufactured according to SAE J518-1 and -2, as well as ISO 6162-1 and -2. These standards control dimensions, tolerances and plating. Please note that the above pressure rating chart refers to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends, could reduce maximum working pressure. Please consult with Anchor Fluid Power for pressure rating specific to your connection requirement.

