



DESIGNED TO FIDELITY

SAE FLANGES

Version-2016
(Inches)



We are a leading manufacturer and supplier of precision engineering components for construction, mining, hydraulics, agriculture and general engineering in South Asia, and worldwide.

PRODUCTS

- Hydraulics for Heavy Machinery
 - o Flanges
 - o Hydraulic Ferrules/Sleeves/Shells
 - o Hydraulic Fittings
 - o Hydraulic Clamps
- Machined Components
- Valve Body





TRIA Group, the fastest growing trusted leader in forged and / or machined hydraulic components, can provide you a wide range of precision SAE split, mono and other precision flanges for demanding hydraulic applications.

Product Profile

We offer the following types of flanges for your unique requirements:

- Code 61 (3000psi) and Code 62 (6000psi) Split and Mono Flanges
- Flange Blocks to NPT thread and BSP thread
- Flange Blocks to Weld Socket
- Flange Blocks with Flat Opposing Seal Face
- Oval Flanges
- Custom Flanges

Raw Material & Plating

Raw Material (all certifications available upon request)

- SS 304, SS 316
- Standard Material ST52.3; other grades available, such as SAE 1040, C20, C60, C45

Plating:

- Chrome (VI) free (Trivalent), Hexavalent chrome plating, Zinc
- Nickel

Advantages for Our Customers

Quality: Indian Production, Global Standards

- TRIA Group is an Indian venture with six production facilities in Pune, India
- All flanges are manufactured to exceed global standards
- Our flanges are tested and approved by over 75 global OEMs

Cost Competitiveness

- With world-class quality, you still get very competitive rates
- Provide us the opportunity to quote for you

Ready to Meet Your Needs

- We can provide small volumes of fewer than 100 flanges to larger volumes up to 400,000 flanges a month

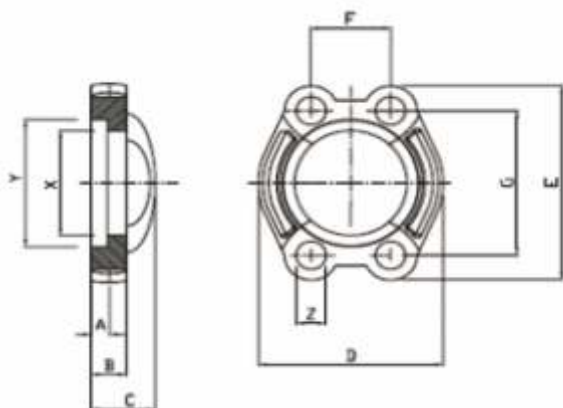
Contact Us to Learn More

Pune Office

+91 8888103355

mkt@tria-group.com

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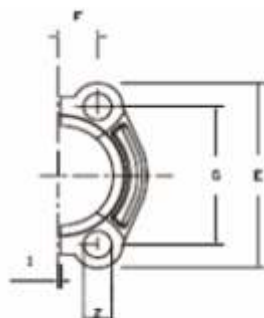
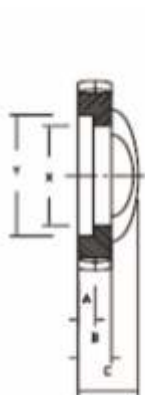


Max Working Pressure (bar)			Nominal Size		Dimensions (inches)											Bolts	
Part No.	Bolts 8.8 (ML)	Bolts 10.6 (MH)	ISO [DN]	SAE (Inch)	SAE Mono Flange	X	Y	A	B	C	D	E	F	G	Z	Metric	UNC
Standard Pressure Series (according to ISO 61621) 3000 PSI Series																	
41	350	350	13	1/2"	FM-3-1/2"-C	0.95	1.22	0.24	0.51	0.74	1.81	2.12	0.68	1.5	0.34	M8 x 25	5/16"-18x1"1/4
42	350	350	19	3/4"	FM-3-3/4"-C	1.26	1.53	0.24	0.55	0.86	2.04	2.55	0.87	1.87	0.41	M10 x 30	3/8"-16x1"1/4
43	250	315	25	1"	FM-3-1"-C	1.51	1.78	0.29	0.62	0.94	2.32	2.75	1.03	2.06	0.41	M10 x 30	3/8"-16x1"1/4
44	200	250	32	1"1/4	FM-3-1"-1/4"-M	1.72	2.03	0.29	0.55	0.94	2.87	3.12	1.18	2.31	0.41	M10 x 30	-
45	200	250	32	1"1/4	FM-3-1"-1/4"-U	1.72	2.03	0.29	0.55	0.94	2.87	3.12	1.18	2.31	0.47	-	7/16"-14x1"1/2
46	200	250	32	1"1/4	FM-3-1"-1/4"-M	1.72	2.03	0.29	0.55	0.94	2.87	3.12	1.18	2.31	0.49	M12 x 35	-
47	200	200	38	1"1/2	FM-3-1"-1/2"-C	2	2.40	0.29	0.62	0.98	3.26	3.70	1.40	2.75	0.53	M12 x 35	1/2"-13x1"1/2
48	200	200	38	1"1/2	FM-3-1"-1/2"-M	2	2.40	0.29	0.62	0.98	3.26	3.70	1.40	2.75	0.57	M14 x 35	-
49	160	200	51	2"	FM-3-2"-C	2.47	2.84	0.35	0.62	1.02	3.81	4.01	1.68	3.06	0.53	M12 x 35	1/2"-13x1"1/2
50	160	200	51	2"	FM-3-2"-M	2.47	2.84	0.35	0.62	1.02	3.81	4.01	1.68	3.06	0.57	M14 x 35	-
51	100	160	64	2"1/2	FM-3-2"1/2"-C	2.87	3.34	0.35	0.74	1.49	4.29	4.50	2	3.5	0.53	M12 x 40	1/2"-13x1"3/4
52	100	160	64	2"1/2	FM-3-2"1/2"-M	2.87	3.34	0.35	0.74	1.49	4.29	4.50	2	3.5	0.57	M14 x 40	-
53	100	160	76	3"	FM-3-3"-C	3.57	4.03	0.35	0.86	1.61	5.15	5.31	2.43	4.18	0.66	M16 x 50	5/8"-11x1"3/4
54	35	35	89	3"1/2	FM-3-3"1/2"-C	4.03	4.53	0.42	0.86	1.10	5.51	5.98	2.75	4.75	0.66	M16 x 50	5/8"-1"1x2
55	35	35	102	4"	FM-3-4"-C	4.52	5.03	0.42	0.98	1.37	4.92	6.37	3.06	5.12	0.66	M16 x 50	5/8"-11x2"
56	35	35	127	5"	FM-3-5"-C	5.53	6.03	0.42	1.10	1.61	7.12	7.24	3.62	6	0.66	M16 x 55	5/8"-11x2"1/4
High Pressure Series (according to ISO 6162-2) 6000 PSI Series																	
57	350	400	13	1/2"	FM-6-1/2"-C	0.96	1.27	0.28	0.62	0.86	1.88	2.22	0.71	1.59	0.34	M8 x 30	5/16"-18x1"1/4
58	350	400	19	3/4"	FM-6-3/4"-C	1.27	1.65	0.32	0.74	1.10	2.36	2.79	0.93	2	0.41	M10 x 35	3/8"-16x1"1/2
59	350	400	25	1"	FM-6-1"-U	1.52	1.90	0.35	0.94	1.10	2.75	3.18	1.09	2.25	0.47	-	7/16"-14x1"3/4
60	350	400	25	1"	FM-6-1"-M	1.52	1.90	0.35	0.94	1.29	2.75	3.18	1.09	2.25	0.51	M12 x 45	-
61	350	400	32	1"1/4	FM-6-1"-1/4"-C	1.75	2.15	0.38	1.06	1.49	3.07	3.74	1.25	2.62	0.53	M12 x 45	1/2"-13x1"3/4
62	350	400	32	1"1/4	FM-6-1"-1/4"-M	1.75	2.15	0.38	1.06	1.49	3.07	3.74	1.25	2.62	0.59	M14 x 45	-
63	350	400	38	1"1/2	FM-6-1"-1/2"-C	2.03	2.53	0.47	1.18	1.69	3.74	4.44	1.43	3.12	0.66	M16 x 55	5/8"-11x2"1/4
64	350	400	51	2"	FM-6-2"-C	2.66	3.15	0.47	1.45	2.04	4.48	5.23	1.75	3.81	0.82	M20 x 70	3/4"-10x2"3/4

How to Order	
Description	3000 PSI 1/2" SAE Mono Flange
Material	AISI316
Plating	Zinc Nickel
Part No.	0041-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1040
Code	-1	-2	-3	-4	-5

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



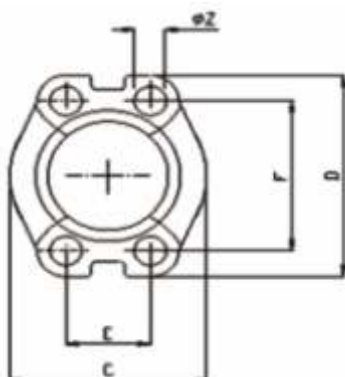
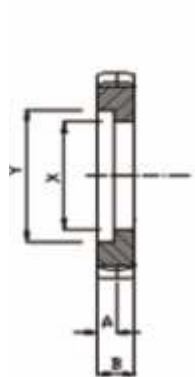
Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Bolts	
Part No.	Bolts 8.8 (ML)	Bolts 10.6 (MH)	ISO [DN]	SAE (Inch)	SAE Split Flange	X	Y	A	B	C	E	F	G	Z	Metric	UNC
Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series																
65	350	350	13	1/2"	FS-3-1/2"-C	0.95	1.22	0.24	0.51	0.74	2.12	0.34	1.50	0.34	M8 x 25	5/16"-18x1"1/4
66	350	350	19	3/4"	FS-3-3/4"-C	1.26	1.53	0.24	0.55	0.86	2.55	0.43	1.87	0.41	M10 x 30	3/8"-16x1"1/4
67	250	315	25	1"	FS-3-1"-C	1.51	1.78	0.29	0.62	0.94	2.75	0.51	2.06	0.41	M10 x 30	3/8"-16x1"1/4
68	200	250	32	1"1/4	FS-3-1"-1/4"-M	1.72	2.03	0.29	0.55	0.94	3.12	0.59	2.31	0.41	M10 x 30	-
69	200	250	32	1"1/4	FS-3-1"-1/4"-U	1.72	2.03	0.29	0.55	0.94	3.12	0.59	2.31	0.47	-	7/16"-14x1"1/2
70	200	250	38	1"1/4	FS-3-1"-1/4"-M	1.72	2.03	0.29	0.55	0.94	3.12	0.59	2.31	0.49	M12 x 35	-
71	200	200	38	1"1/2	FS-3-1"-1/2"-C	2	2.40	0.29	0.62	0.98	3.70	0.70	2.75	0.53	M12 x 35	1/2"-13x1"1/2
72	200	200	38	1"1/2	FS-3-1"-1/2"-M	2	2.40	0.29	0.62	0.98	3.70	0.70	2.75	0.57	M14 x 35	-
73	160	200	51	2"	FS-3-2"-C	2.47	2.84	0.35	0.62	1.02	4.01	0.84	3.06	0.53	M12 x 35	1/2"-13x1"1/2
74	160	200	51	2"	FS-3-2"-M	2.47	2.84	0.35	0.62	1.02	4.01	0.84	3.06	0.57	M14 x 35	-
75	100	160	64	2"1/2	FS-3-2"-1/2"-C	2.94	3.34	0.35	0.74	1.49	4.50	1	3.50	0.53	M12 x 40	1/2"-13x1"3/4
76	100	160	64	2"1/2	FS-3-2"-1/2"-M	2.94	3.34	0.35	0.74	1.49	4.50	1	3.50	0.57	M14 x 40	-
77	100	160	76	3"	FS-3-3"-C	3.57	4.03	0.35	0.86	1.61	5.31	1.21	4.18	0.66	M16 x 50	5/8"-11x1"3/4
78	35	35	89	3"1/2	FS-3-3"-1/2"-C	4.03	4.53	0.42	0.86	1.10	5.98	1.37	4.75	0.66	M16 x 50	5/8"-11x2"
79	35	35	102	4"	FS-3-4"-C	4.52	5.03	0.42	0.98	1.37	6.37	1.53	5.15	0.66	M16 x 50	5/8"-11x2"
80	35	35	127	5"	FS-3-5"-C	5.53	6.03	0.42	1.10	1.61	7.24	1.81	6.00	0.66	M16 x 55	5/8"-11x2"1/4
High Pressure Series (according to ISO 6162-2) 6000 PSI Series																
81	350	400	13	13	FS-6-1/2"-C	0.96	1.27	0.28	0.62	0.86	2.22	0.35	1.59	0.34	M8 x 30	5/16"-18x1"1/4
82	350	400	19	19	FS-6-3/4"-C	1.27	1.65	0.32	0.74	1.10	2.79	0.46	2	0.41	M10 x 35	3/8"-16x1"1/2
83	350	400	25	25	FS-6-1"-U	1.52	1.90	0.35	0.94	1.29	3.18	0.54	2.25	0.46	-	7/16"-14x1"3/4
84	350	400	25	25	FS-6-1"-M	1.52	1.90	0.35	0.94	1.29	3.18	0.54	2.25	0.51	M12 x 45	-
85	350	400	32	32	FS-6-1"-1/4"-C	1.75	2.15	0.38	1.06	1.49	3.74	0.62	2.62	0.53	M12 x 45	1/2"-13x1"3/4
86	350	400	32	32	FS-6-1"-1/4"-M	1.75	2.15	0.38	1.06	1.49	3.74	0.62	2.62	0.59	M14 x 45	-
87	350	400	38	38	FS-6-1"-1/2"-C	2.03	2.53	0.47	1.18	1.69	4.44	0.71	3.12	0.66	M16 x 55	5/8"-11x2"1/4
88	350	400	51	51	FS-6-2"-C	2.66	3.15	0.47	1.45	2.04	5.23	0.87	3.81	0.82	M20 x 70	3/4"-10x2"3/4

How to Order

Description	3000 PSI 1/2" SAE Split Flange
Material	AISI316
Plating	Zinc Nickel
Part No.	0065-4-Z

Mat.	St52-3	A105	AISI316	SAE1040
Code	-1	-2	-4	-5

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Bolts	
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	Flat Mono	X	Y	A	B	C	D	E	F	Z	Metric	UNC

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0113	350	350	13	1/2"	FFM C-3-1/2"-C	0.95	1.22	0.24	0.51	1.79	2.12	0.68	1.50	0.34	M8 x 25	5/16"-18x1"1/4
0114	350	350	19	3/4"	FFM-3-3/4"-C	1.26	1.53	0.24	0.55	2.03	2.55	0.87	1.87	0.41	M10 x 30	3/8"-16x1"1/4
0115	250	315	25	1"	FFM-3-1"-C	1.51	1.78	0.29	0.62	2.29	2.75	1.03	2.06	0.41	M10 x 30	3/8"-16x1"1/4
0116	200	250	32	1"1/4	FFM-3-1"1/4"-M	1.72	2.03	0.29	0.55	2.88	3.11	1.18	2.31	0.41	M10 x 30	-
0117	200	250	32	1"1/4	FFM-3-1"1/4"-U	1.72	2.03	0.29	0.55	2.88	3.11	1.18	2.31	0.47	-	7/16"-14x1"1/2
0118	200	250	32	1"1/4	FFM-3-1"1/4"-M	1.72	2.03	0.29	0.55	2.88	3.11	1.18	2.31	0.49	M12 x 35	-
0119	200	200	38	1"1/2	FFM-3-1"1/2"-C	2	2.40	0.29	0.62	3.23	3.70	1.40	2.75	0.53	M12 x 35	1/2"-13x1"1/2
0120	200	200	38	1"1/2	FFM-3-1"1/2"-M	2	2.40	0.29	0.62	3.23	3.70	1.40	2.75	0.57	M14 x 35	-
0121	160	200	51	2"	FFM-3-2"-C	2.47	2.84	0.35	0.62	3.79	4.01	1.68	3.06	0.53	M12 x 35	1/2"-13x1"1/2
0122	160	200	51	2"	FFM-3-2"-M	2.47	2.84	0.35	0.62	3.79	4.01	1.68	3.06	0.57	M14 x 35	-
0123	160	200	51	2"1/2	FFM-3-2"1/2"-C	2.94	3.34	0.35	0.74	4.17	4.52	2	3.50	0.53	M12 x 40	1/2"-13x1"3/4
0124	160	200	51	2"1/2	FFM-3-2"1/2"-M	2.94	3.34	0.35	0.74	4.17	4.52	2	3.50	0.57	M14 x 40	-
0125	100	160	76	3"	FFM-3-3"-C	3.57	4.03	0.35	0.86	5.06	5.31	2.43	4.18	0.66	M16 x 50	5/8"-11x1"3/4

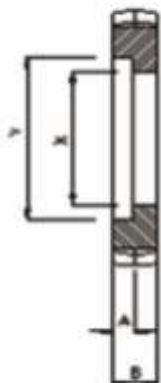
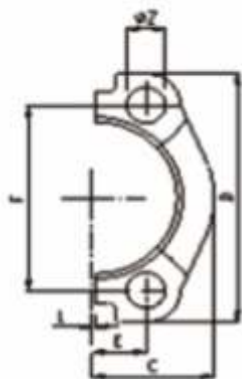
High Pressure Series (according to ISO 6162-2) 6000 PSI Series

0126	350	400	13	1/2"	FFM C-6-1"1/2"-C	0.96	1.27	0.28	0.62	1.85	2.20	0.71	1.59	0.34	M8 x 30	5/16"-18x1"1/4
0127	350	400	19	3/4"	FFM-6-3/4"-C	1.27	1.65	0.32	0.78	2.36	2.79	0.93	2	0.41	M10 x 35	3/8"-16x1"1/2
0128	350	400	25	1"	FFM-6-1"-U	1.52	1.90	0.35	0.98	2.74	3.18	1.09	2.25	0.47	-	7/16"-14x1"3/4
0129				1"	FFM-6-1"-M	1.52	1.90	0.35	0.98	2.74	3.18	1.09	2.25	0.51	M12 x 45	-
0130	350	400	32	1 1/4"	FFM-6-1 1/4"-C	1.75	2.15	0.38	1.06	3.03	3.74	1.25	2.62	0.53	M12 x 45	1/2"-13x1"3/4
0131	350	400	32	1 1/4"	FFM-6-1 1/4"-M	1.75	2.15	0.38	1.06	3.03	3.74	1.25	2.62	0.59	M14 x 45	-
0132	350	400	38	1 1/2"	FFM-6-1 1/2"-C	2.03	2.53	0.47	1.18	3.74	4.44	1.43	3.12	0.66	M16 x 55	5/8"-11x2"1/4
0133	350	400	51	2"	FFM-6-2"-C	2.66	3.15	0.47	1.45	4.48	5.23	1.75	3.81	0.82	M20 x 70	3/4"-10x2"3/4

How to Order	
Description	3000 PSI 1/2" SAE Flat Flange Mono
Material	AISI316
Plating	Zinc Nickel
Part No.	0113-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1040
Code	-1	-2	-3	-4	-5

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Bolts	
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	Flat Split	X	Y	A	B	C	D	E	F	Z	Metric	UNC

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0134	350	350	13	1/2"	FFS-3-1/2"-C	0.95	2.66	0.26	0.51	0.89	2.12	0.34	1.50	0.34	M8 x 25	5/16"-18x1"1/4
0135	350	350	19	3/4"	FFS-3-3/4"-C	1.26	1.53	0.26	0.55	1.01	2.55	0.43	1.87	0.41	M10 x 30	3/8"-16x1"1/4
0136	250	315	25	1"	FFS-3-1"-C	1.51	1.78	0.29	0.62	1.14	2.75	0.51	2.06	0.41	M10 x 30	3/8"-16x1"1/4
0137	200	250	32	1"1/4	FFS-3-1"-1/4"-C	1.72	2.03	0.29	0.55	1.44	3.11	0.51	2.31	0.41	M10 x 30	-
0138	200	250	32	1"1/4	FFS-3-1"-1/4"-U	1.72	2.03	0.29	0.55	1.44	3.11	0.59	2.31	0.47	-	7/16"-14x1"1/2
0139	200	250	32	1"1/4	FFS-3-1"-1/4"-M	1.72	2.03	0.29	0.55	1.44	3.11	0.59	2.31	0.49	M12 x 35	-
0140	200	200	38	1"1/2	FFS-3-1"-1/2"-C	2	2.40	0.29	0.62	1.61	3.70	0.70	2.75	0.53	M12 x 35	1/2"-13x1"1/2
0141	200	200	38	1"1/2	FFS-3-1"-1/2"-M	2	2.40	0.29	0.62	1.61	3.70	0.70	2.75	0.57	M14 x 35	-
0142	160	200	51	2"	FFS-3-2"-C	2.47	2.84	0.35	0.62	1.89	4.01	0.84	3.06	0.53	M12 x 35	1/2"-13x1"1/2
0143	160	200	51	2"	FFS-3-2"-M	2.47	2.84	0.35	0.62	1.89	4.01	0.84	3.06	0.57	M14 x 35	-
0144	100	160	64	2"1/2	FFS-3-2"1/2"-C	2.94	3.34	0.35	0.74	2.08	4.52	1	3.50	0.53	M12 x 40	1/2"-13x1"3/4
0145	100	160	64	2"1/2	FFS-3-2"1/2"-M	2.94	3.34	0.35	0.74	2.08	4.52	1	3.50	0.57	M14 x 40	-
0146	100	160	76	3"	FFS-3-3"-C	3.57	4.03	0.35	0.86	2.53	5.31	1.21	4.18	0.66	M16 x 50	5/8"-11x1"3/4

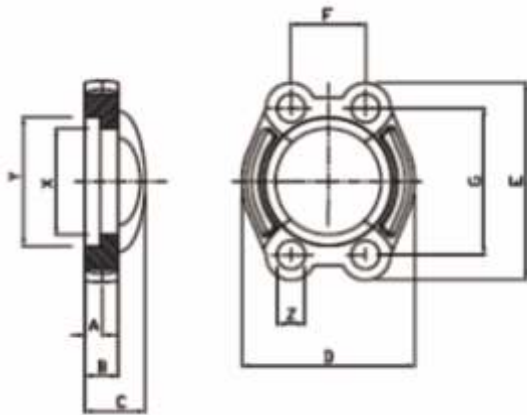
High Pressure Series (according to ISO 6162-2) 6000 PSI Series

0147	350	400	13	1/2"	FFS C-6-1/2"-C	0.96	1.27	0.28	0.62	0.92	2.20	0.35	1.59	0.34	M8 x 30	5/16"-18x1"1/4
0148	350	400	19	3/4"	FFS-6-3/4"-C	1.27	1.65	0.32	0.74	1.18	2.79	0.46	2	0.41	M10 x 35	3/8"-16x1"1/4
0149	350	400	25	1"	FFS-6-1"-U	1.52	1.90	0.35	0.94	1.37	3.18	0.54	2.25	0.47	-	7/16"-14x1"3/4
0150	350	400	25	1"	FFS-6-1"-M	1.52	1.90	0.35	0.94	1.37	3.18	0.54	2.25	0.51	M12 x 45	-
0151	350	400	32	1"1/4	FFS-6-1"-1/4"-C	1.75	2.15	0.38	1.06	1.51	3.74	0.62	2.62	0.53	M12 x 45	1/2"-13x1"3/4
0152	350	400	32	1"1/4	FFS-6-1"-1/4"-M	1.75	2.15	0.38	1.06	1.51	3.74	0.62	2.62	0.59	M14 x 45	-
0153	350	400	38	1"1/2	FFS-6-1"-1/2"-C	2.03	2.53	0.47	1.18	1.87	4.44	0.71	3.12	0.66	M16 x 55	5/8"-11x2"1/4
0154	350	400	51	2"	FFS-6-2"-C	2.66	3.15	0.47	1.45	2.23	5.23	0.87	3.18	0.82	M20 x 70	3/4"-10x2"3/4

How to Order	
Description	3000 PSI 1/2" SAE Flat Flange Split
Material	AISI316
Plating	Zinc Nickel
Part No.	0134-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1040
Code	-1	-2	-3	-4	-5

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



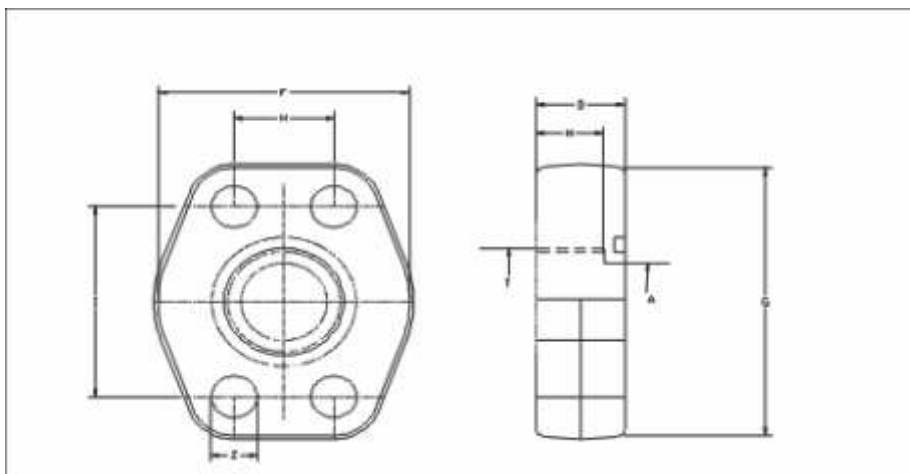
Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Bolts
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	Flange Clamps	X	Y	A	B	C	D	E	F	G	(Z)Thread
Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series															
0089	350	350	13	1/2"	TFM-3-1/2"-M	0.95	1.22	0.24	0.51	0.74	1.81	2.12	0.68	1.5	M8
0090	350	350	19	3/4"	TFM-3-3/4"-M	1.26	1.53	0.24	0.55	0.86	2.04	2.55	0.87	1.87	M10
0091	250	315	25	1"	TFM-3-1"-M	1.51	1.78	2.29	0.62	0.94	2.32	2.75	1.03	2.06	M10
0092	200	250	32	1 1/4"	TFM-3-1"-1/4"-M	1.72	2.03	2.29	0.55	0.94	2.87	3.12	1.18	2.31	M10
0093	200	250	32	1 1/4"	TFM-3-1"-1/4"-M	1.72	2.03	2.29	0.55	0.94	2.87	3.12	1.18	2.31	M12
0094	200	250	32	1 1/4"	TFM-3-1"-1/4"-U	1.72	2.03	2.29	0.55	0.94	2.87	3.12	1.18	2.31	1/2UNC
0095	200	200	38	1 1/2"	TFM-3-1"-1/2"-M	2	2.42	2.29	0.62	0.98	3.26	3.70	1.40	2.75	M12
0096	200	200	38	1 1/2"	TFM-3-1"-1/2"-M	2	2.42	2.29	0.62	0.98	3.26	3.70	1.40	2.75	M14
0097	160	200	51	2"	TFM-3-2"-M	2.47	2.84	0.35	0.62	1.02	3.81	4.01	1.68	3.06	M12
0098	160	200	51	2"	TFM-3-2"-M	2.47	2.84	0.35	0.62	1.02	3.81	4.01	1.68	3.06	M14
0099	100	160	64	2 1/2"	TFM-3-2"-1/2"-M	2.94	3.34	0.35	0.74	1.49	4.29	4.50	2	3.5	M12
0100	100	160	64	2 1/2"	TFM-3-2"-1/2"-M	2.94	3.34	0.35	0.74	1.49	4.29	4.50	2	3.5	M14
0101	100	160	76	3"	TFM-3-3"-M	3.57	4.03	0.35	0.86	1.61	5.15	5.31	2.43	4.18	M16
0102	35	35	89	3 1/2"	TFM-3-3"-1/2"-M	4.03	4.53	0.42	0.86	1.10	5.51	5.98	2.75	4.75	M16
0103	35	35	102	4"	TFM-3-4"-M	4.52	5.03	0.42	0.98	1.35	4.92	6.37	3.06	5.12	M16
0104	35	35	127	5"	TFM-3-5"-M	5.53	6.03	0.42	1.10	1.61	7.12	7.24	3.62	6	M16
High Pressure Series (according to ISO 6162-2) 6000 PSI Series															
0105	350	400	13	1/2"	TFM-6-1/2"-M	0.96	1.27	0.28	0.62	0.86	1.88	2.22	0.71	1.59	M8
0106	350	400	19	3/4"	TFM-6-3/4"-M	1.26	1.65	0.32	0.74	1.10	2.36	2.79	0.93	2	M10
0107	350	400	25	1"	TFM-6-1"-M	1.52	1.90	0.35	0.94	1.29	2.75	3.18	1.09	2.25	M10
0108	350	400	25	1"	TFM-6-1"-M	1.52	1.90	0.35	0.94	1.29	2.75	3.18	1.09	2.25	M12
0109	350	400	32	1 1/4"	TFM-6-1"-1/4"-M	1.75	2.15	0.38	1.06	1.29	3.07	3.74	1.25	2.62	M12
0110	350	400	32	1 1/4"	TFM-6-1"-1/4"-M	1.75	2.15	0.38	1.06	1.29	3.07	3.74	1.25	2.62	M14
0111	350	400	38	1 1/2"	TFM-6-1"-1/2"-M	2.03	2.53	0.47	1.18	1.69	3.74	4.44	1.43	3.12	M16
0112	350	400	51	2"	TFM-6-2"-M	2.66	3.15	0.47	1.45	2.04	4.48	5.23	1.75	3.81	M20

How to Order	
Description	3000 PSI 1/2" SAE Mono Flange with Tapped Holes
Material	AISI316
Plating	Zinc Nickel
Part No.	0089-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1040
Code	-1	-2	-3	-4	-5

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z

Integrated Flat Socket-weld Threaded Flange with O ring Groove (IOR)



Max Working Pressure (bar)			Normal Size		Dimensions (inches)										Bolts
Part No.	Bolts 8.8 (ML)	Bolts 10.9 (MH)	ISO (DN)	SAE (inch)	Straight Version, O Ring Face IOR..FL..TSW	Diam A	Thread T(BSP)	D	F	G	H	I	M	Z	Metric.

Standard Pressure Series (according to ISO6162-1) 3000 PSI Series

439	350	350	13	1/2"	IOR-FL-3- TSW- 1/2"	0.51	1/2"	0.78	1.85	2.24	0.68	1.5	0.59	0.34	8x30
440	350	350	19	3/4"	IOR-FL-3-TSW-3/4"	0.74	3/4"	0.78	1.96	2.63	0.87	1.87	0.59	0.41	10x35
441	250	315	25	1"	IOR-FL-3-TSW-1"	0.98	1"	0.86	2.12	2.83	1.03	2.06	0.62	0.41	10x35
442	200	200	32	1"1/4	IOR-FL-3-TSW-1"1/4	1.22	1"1/4	0.86	2.67	3.22	1.18	2.31	0.62	0.41	10x40
443	200	200	38	1"½	IOR-FL-3-TSW-1"1/2	1.49	1"½	1.02	3.11	3.77	1.40	2.75	0.78	0.053	12x45
444	160	160	51	2"	IOR-FL-3-TSW-2"	1.96	2"	1.02	3.46	4.01	1.68	3.06	0.78	0.53	12x45
445	100	100	64	2"½	IOR-FL-3-TSW-2"1/2	2.48	2"½	1.25	3.97	4.52	2	3.5	0.98	0.53	12x45
446	100	100	76	3"	IOR-FL-3-TSW-3"	2.87	3"	1.25	5	5.39	2.43	1.18	0.98	0.66	16x50

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

447	350	400	13	1/2"	IOR-FL-6- TSW- 1/2"	0.55	1/2"	0.78	1.85	2.24	0.71	1.59	0.59	0.34	8x30
448	350	400	19	3/4"	IOR-FL-6-TSW-3/4"	0.74	3/4"	0.78	2.12	2.83	0.93	2	0.59	0.41	10x35
449	350	400	25	1"	IOR-FL-6-TSW-1"	0.98	1"	0.94	2.67	3.22	1.09	2.25	0.70	0.51	12x45
450	350	400	32	1"1/4	IOR-FL-6-TSW-1"1/4	1.22	1"1/4	1.10	3.11	3.74	1.25	2.62	0.86	0.59	12x45
451	350	400	38	1"½	IOR-FL-6-TSW-1"1/2	1.49	1"½	1.18	3.46	4.25	1.43	3.12	0.94	0.66	16x55
452	350	400	51	2"	IOR-FL-6-TSW-2"	1.96	2"	1.18	4.64	5.39	1.75	3.81	0.94	0.82	20x70

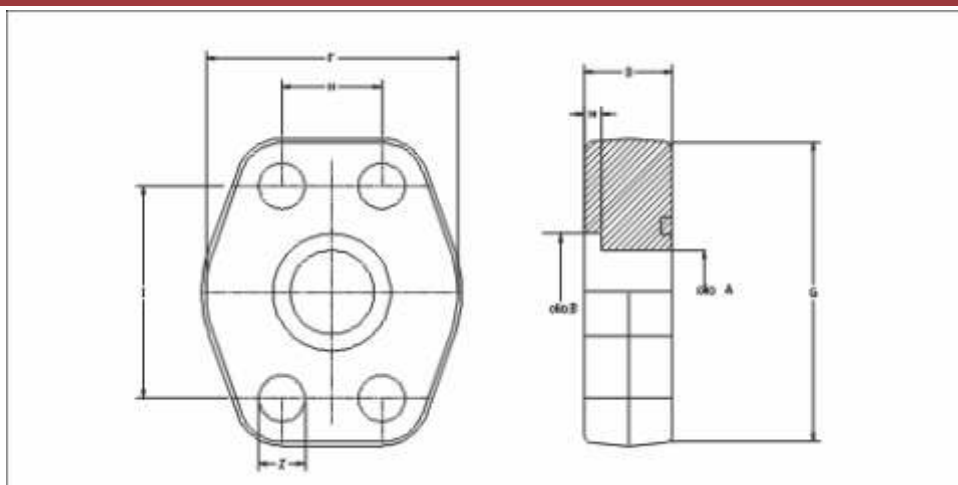
How to Order

Description	3000 PSI ½" INTEGRATED THREADED BORE WITH O RING GROOVE
Material	AISI 316
Plating	Zinc Nickel
Part No.	'0439-4-Z

Mat.	ST52-3	A105	AISI304	AISI316
Code	-1	-2	-3	-4

Plating	Trivalent	Hexa-valent	Zinc Nickel
Code	-T	-H	-Z

Integrated Flat Socket-weld Flange with O Ring Groove (IOR)



Max Working Pressure (bar)			Normal Size		Dimensions (inches)										Bolts
Part No.	Bolts 8.8 (ML)	Bolts 10.9 (MH)	ISO (DN)	SAE (inch)	Straight Version, O Ring Face IOR..FL..TSW	Diam A	Thread T(BSP)	D	F	G	H	I	M	Z	Metric.

Standard Pressure Series (according to ISO6162-1) 3000 PSI Series

411	350	350	13	1/2"	IOR-FL-3- SW- 1/2"	0.59	0.88	0.62	1.85	2.24	0.68	1.50	0.35	0.34	8x30
412	350	350	19	3/4"	IOR-FL-3-SW-3/4"	0.78	1.12	0.70	1.96	2.63	0.87	1.87	0.39	0.41	10x35
413	250	315	25	1"	IOR-FL-3-SW-1"	1.14	1.39	0.74	2.12	2.83	1.03	2.06	0.43	0.41	10x35
414	200	250	32	1 1/4"	IOR-FL-3-SW-1 1/4"	1.33	1.67	0.70	2.67	3.22	1.18	2.31	0.39	0.41	10x40
415	200	200	38	1 1/2"	IOR-FL-3-SW-1 1/2"	1.65	1.92	0.78	3.11	3.77	1.40	2.75	0.35	0.53	12x45
416	160	200	51	2"	IOR-FL-3-SW-2"	2.08	2.40	0.78	3.88	4.01	1.68	3.06	0.35	0.53	12x45
417	100	160	64	2 1/2"	IOR-FL-3-SW-2 1/2"	2.51	3.03	0.78	3.97	4.52	2	3.50	0.35	0.53	12x45
418	100	100	76	3"	IOR-FL-3-SW-3"	3.14	3.54	0.94	5	5.39	2.43	4.18	0.35	0.66	16x50

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

419	350	400	13	1/2"	IOR-FL-6- SW- 1/2"	0.59	0.88	0.62	1.85	2.24	0.71	1.59	0.35	0.34	8x30
420	350	400	19	3/4"	IOR-FL-6-SW-3/4"	0.78	1.12	0.74	2.12	2.83	0.93	2	0.43	0.41	10x35
421	350	400	25	1"	IOR-FL-6-SW-1"	1.14	1.39	0.94	2.67	3.22	1.09	2.25	0.62	0.51	12x45
422	350	400	32	1 1/4"	IOR-FL-6-SW-1 1/4"	1.33	1.67	1.06	3.11	3.74	1.25	2.62	0.74	0.59	12x45
423	350	400	38	1 1/2"	IOR-FL-6-SW-1 1/2"	1.65	1.92	1.18	3.88	4.25	1.43	3.12	0.74	0.66	16x55
424	350	400	51	2"	IOR-FL-6-SW-2"	2.08	2.40	1.18	4.64	5.39	1.75	3.81	0.59	0.82	20x70

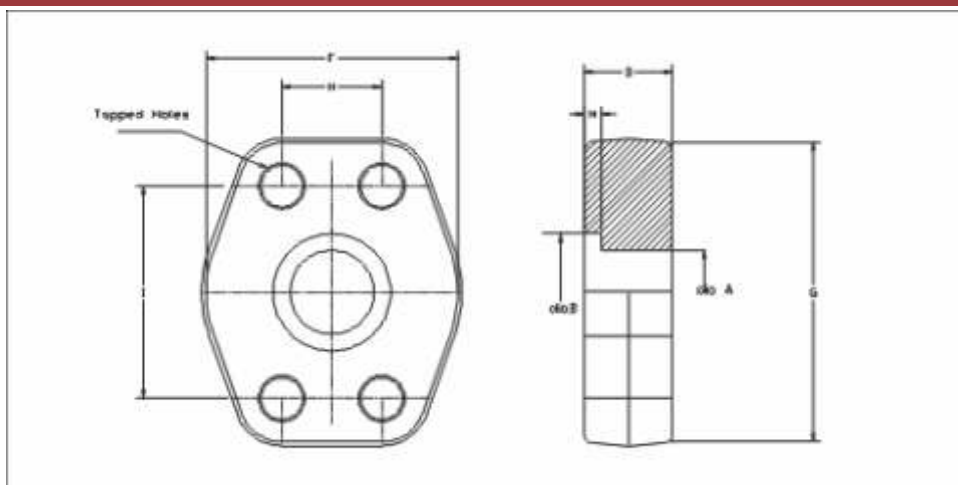
How to Order

Description	3000 PSI 1/2" INTEGRATED PLAIN BORE WITH O RING GROOVE
Material	AISI 316
Plating	Zinc Nickel
Part No.	'0411-4-Z

Mat.	ST52-3	A105	AISI304	AISI316
Code	-1	-2	-3	-4

Plating	Trivalent	Hexa-valent	Zink Nickel
Code	-T	-H	-Z

Integrated Flat Socket-weld Flange with Flat Face (IFL)



Max Working Pressure (bar)			Normal Size		Dimensions (inches)									Bolts
Part No.	Bolts 8.8 (ML)	Bolts 10.9 (MH)	ISO (DN)	SAE (inch)	Straight Version, O Ring Face IOR..FL..TSW	Diam A	Diam B	D	F	G	H	I	M	Metric.

Standard Pressure Series (according to ISO6162-1) 3000 PSI Series

425	350	350	13	1/2"	IFL-FL-3- SW 1/2"	0.59	0.88	0.62	1.85	2.24	0.68	1.50	0.35	M8
426	350	350	19	3/4"	IFL-FL-3-SW-3/4"	0.78	1.12	0.70	1.96	2.63	0.87	1.87	0.39	M10
427	250	315	25	1"	IFL-FL-3-SW-1"	1.14	1.39	0.74	2.12	2.83	1.03	2.06	0.43	M10
428	200	250	32	1"1/4	IFL-FL-3-SW-1"1/4	1.33	1.67	0.70	2.67	3.22	1.18	2.31	0.39	M10
429	200	200	38	1"1/2	IFL-FL-3-SW-1"1/2	1.65	1.92	0.78	3.11	3.77	1.40	2.75	0.35	M12
430	160	200	51	2"	IFL-FL-3-SW-2"	2.08	2.40	0.78	3.46	4.01	1.68	3.06	0.35	M12
431	100	160	64	2"1/2	IFL-FL-3-SW-2"1/2	2.51	3.03	0.78	3.97	4.52	2	3.50	0.35	M12
432	100	100	76	3"	IFL-FL-3-SW-3"	3.14	3.54	0.94	5	5.39	2.43	4.18	0.35	M16

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

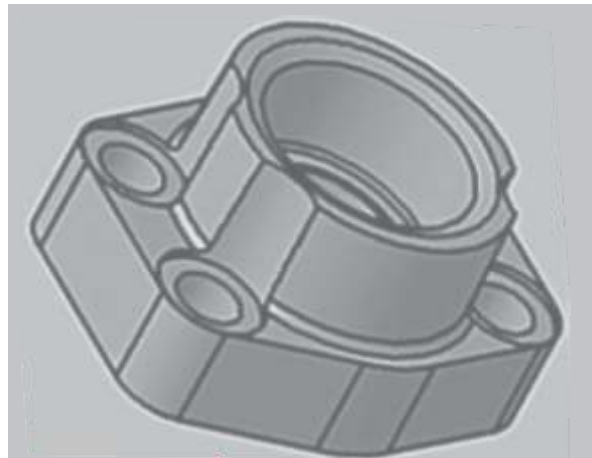
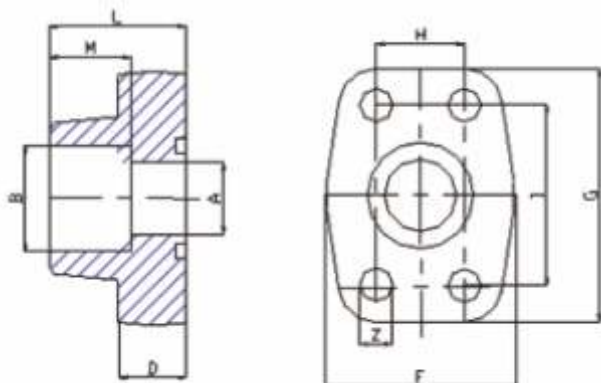
433	350	400	13	1/2"	IFL-FL-6- SW 1/2"	0.59	0.88	0.62	1.85	2.24	0.71	1.59	0.35	M8
434	350	400	19	3/4"	IFL-FL-6-SW-3/4"	0.78	1.12	0.74	2.12	2.83	0.93	2	0.43	M10
435	350	400	25	1"	IFL-FL-6-SW-1"	1.14	1.39	0.94	2.67	3.22	1.09	2.25	0.62	M12
436	350	400	32	1"1/4	IFL-FL-6-SW-1"1/4	1.33	1.67	1.06	3.11	3.74	1.25	2.62	0.74	M14
437	350	400	38	1"1/2	IFL-FL-6-SW-1"1/2	1.65	1.92	1.18	3.46	4.25	1.43	3.12	0.74	M16
438	350	400	51	2"	IFL-FL-6-SW-2"	2.08	2.40	1.18	4.64	5.39	1.75	3.81	0.59	M20

How to Order

Description	3000 PSI 1/2" INTEGRATED PLAIN BORE WITH FLAT FACE
Material	AISI 316
Plating	Zinc Nickel
Part No.	'0425-4-Z

Mat.	ST52-3	A105	AISI304	AISI316
Code	-1	-2	-3	-4

Plating	Trivalent	Hexa-valent	Zink Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)											Bolts
Part No.	Bolts 8.8	Bolts 10.9	ISO	SAE	STRAIGHT VERSION, O RING FACE	A	B	D	F	G	H	I	L	M	Z	Metric

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0155	350	350	13	1/2"	IOR SW 1/2"	0.51	0.86	0.62	1.85	2.24	0.68	1.50	1.41	0.70	0.34	M8 x 30
0156	350	350	19	3/4"	IOR-3-SW-3/4"	0.74	1.10	0.70	1.96	2.63	0.87	1.87	1.41	0.70	0.41	M10 x 35
0157	250	315	25	1"	IOR-3-SW-1"	0.98	1.37	0.70	2.12	2.83	1.03	2.06	1.49	0.70	0.41	M10 x 35
0158	200	250	32	1 1/4"	IOR-3-SW-1 1/4"	1.22	1.69	0.82	2.67	3.22	1.18	2.31	1.61	0.78	0.41	M10 x 40
0159	200	200	38	1 1/2"	IOR-3-SW-1 1/2"	1.49	2.00	0.98	3.11	3.77	1.40	2.75	1.73	0.86	0.53	M12 x 45
0160	160	200	51	2"	IOR-3-SW-2"	2.00	2.40	1.00	3.46	4.01	1.68	3.06	1.77	0.94	0.53	M12 x 45
0161	100	160	64	2 1/2"	IOR-3-SW-2 1/2"	2.48	2.87	1.02	3.97	4.52	2	3.50	1.96	1.10	0.53	M12 x 45
0162	100	100	76	3"	IOR-3-SW-3"	2.87	3.54	1.08	4.88	5.39	2.43	4.18	1.96	1.10	0.66	M16 x 50

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

0163	350	400	13	1/2"	IOR 6 SW 1/2"	0.51	0.86	0.64	1.85	2.24	0.71	1.59	1.41	0.74	0.34	M8 x 30
0164	350	400	19	3/4"	IOR-6-SW-3/4"	0.74	1.10	0.78	2.12	2.83	0.93	2	1.41	0.78	0.41	M10 x 35
0165	350	400	25	1"	IOR-6-SW-1"	0.98	1.37	0.94	2.67	3.22	1.09	2.25	1.73	0.86	0.51	M12 x 45
0166	350	400	32	1 1/4"	IOR-6-SW-1 1/4"	1.25	1.68	1.08	3.11	3.77	1.25	2.62	1.73	0.86	0.59	M12 x 45
0167	350	400	38	1 1/2"	IOR-6-SW-1 1/2"	0.49	1.91	1.22	3.46	4.25	1.43	3.12	2.00	0.94	0.66	M16 x 55
0168	350	400	51	2"	IOR-6-SW-2"	2.00	2.40	1.45	4.64	5.39	1.75	3.81	2.75	1.29	0.82	M20 x 70

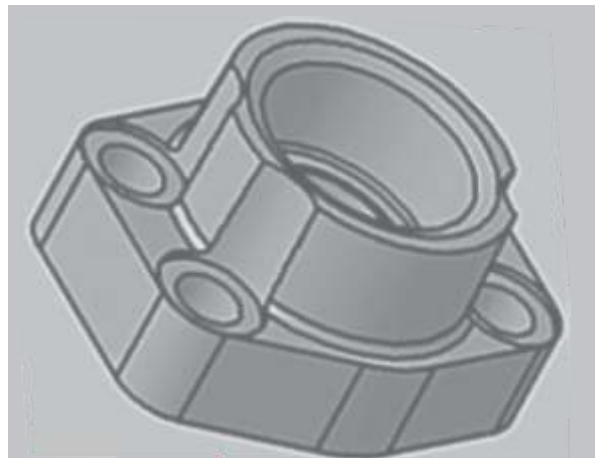
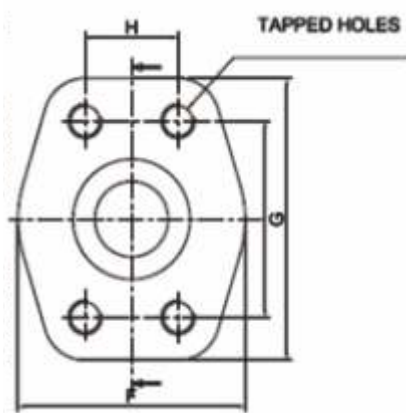
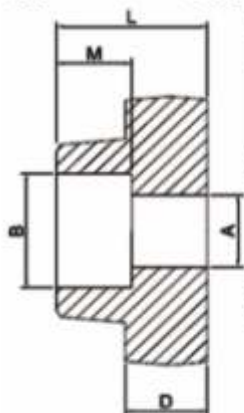
How to Order

Description	3000 PSI 1/2" Integrated Plain Bore with O Ring
Material	AISI316
Plating	Zinc Nickel
Part No.	0155-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Threads
Part No.	Bolts 8.8	Bolts 10.6	ISO [DN]	SAE	STRAIGHT VERSION, O RING FACE	A	B	D	F	G	H	I	L	M	Metric

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0169	350	350	13	1/2"	IFL SW 1/2"	0.51	0.86	0.62	1.85	2.24	0.68	1.50	1.41	0.70	M8
0170	350	350	19	3/4"	IFL-3-SW-3/4"	0.74	1.10	0.70	1.96	2.63	0.87	1.87	1.41	0.70	M10
0171	250	315	25	1"	IFL-3-SW-1"	0.98	1.37	0.70	2.12	2.83	1.03	2.06	1.49	0.70	M10
0172	200	250	32	1 1/4"	IFL-3-SW-1 1/4"	1.22	1.69	0.82	2.76	3.22	1.18	2.31	1.61	0.78	M10
0173	200	200	38	1 1/2"	IFL-3-SW-1 1/2"	1.49	2.00	0.98	3.11	3.77	1.40	2.75	1.73	0.86	M12
0174	160	200	51	2"	IFL-3-SW-2"	2.00	2.40	1.00	3.46	4.01	1.68	3.06	1.77	0.94	M12
0175	100	160	64	2 1/2"	IFL-3-SW-2 1/2"	2.48	2.87	1.02	3.97	4.52	2	3.50	1.96	1.10	M12
0176	100	100	76	3"	IFL-3-SW-3"	2.87	3.54	1.08	4.88	5.39	2.43	4.18	1.96	1.10	M16

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

0177	350	400	13	1/2"	IFL 6 SW 1/2"	0.51	0.86	0.64	1.85	2.24	0.71	1.59	1.41	0.74	M8
0178	350	400	19	3/4"	IFL-6-SW-3/4"	0.74	1.10	0.78	2.12	2.83	0.93	2	1.41	0.78	M10
0179	350	400	25	1"	IFL-6-SW-1"	0.98	1.37	0.94	2.76	3.22	1.09	2.25	1.73	0.86	M12
0180	350	400	32	1 1/4"	IFL-6-SW-1 1/4"	1.25	1.68	1.08	3.11	3.77	1.25	2.62	1.73	0.86	M12
0181	350	400	38	1 1/2"	IFL-6-SW-1 1/2"	1.49	1.91	1.22	3.46	4.25	1.43	3.12	2.00	0.94	M16
0182	350	400	51	2"	IFL-6-SW-2"	2.00	2.40	1.45	4.64	5.39	1.75	3.81	2.75	1.29	M20

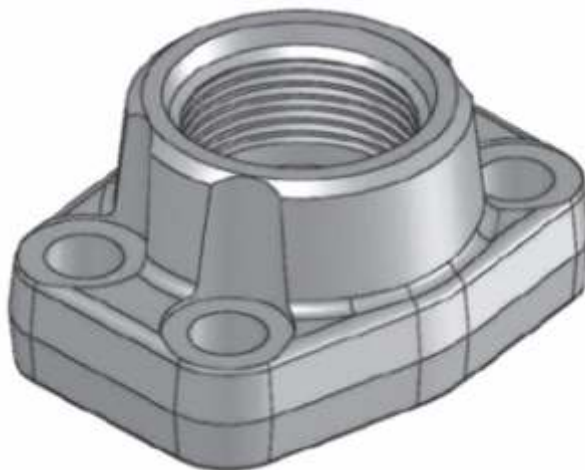
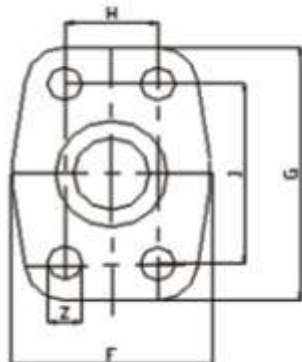
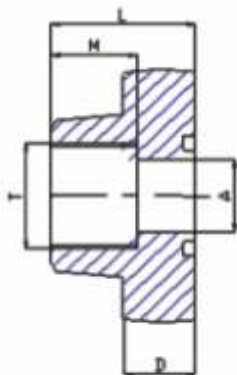
How to Order

Description	3000 PSI 1/2" Integrated Female Threaded Flat Face
Material	AISI316
Plating	Zinc Nickel
Part No.	0169-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



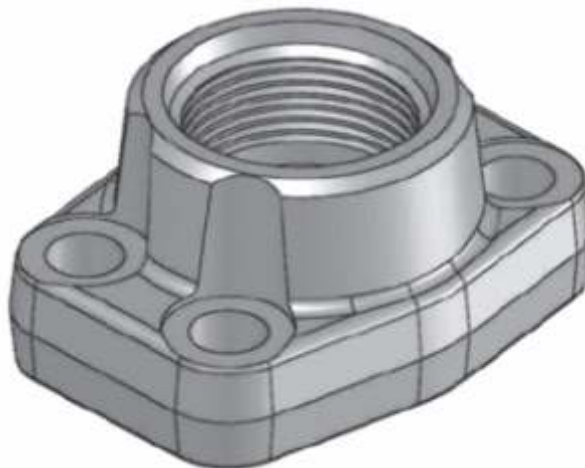
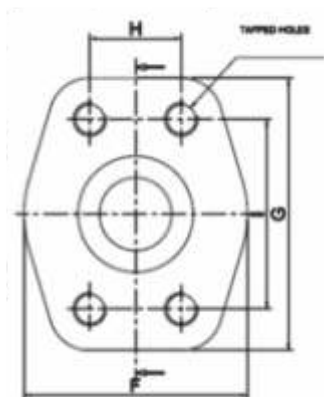
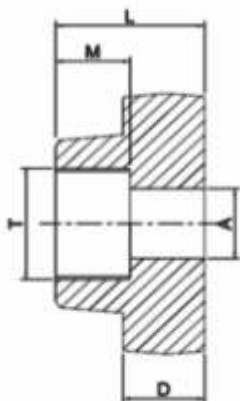
Max Working Pressure (bar)			Nominal Size		Dimensions (inches)											Bolts
Part No.	Bolts 8.8	Bolts 10.9	ISO	SAE	STRAIGHT VERSION	A	D	F	G	H	I	L	M	T BSP	Z	Metric
Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series																
0183	350	350	13	1/2"	IOR-3-FBSP-1/2"	0.59	0.62	1.85	2.24	0.68	1.50	1.31	0.59	1/2"	0.34	M8 x 30
0184	350	350	19	3/4"	IOR-3-FBSP-3/4"	0.74	0.70	1.96	2.63	0.87	1.87	1.31	0.70	3/4"	0.41	M10 x 35
0185	250	315	25	1"	IOR-3-FBSP-1"	0.98	0.70	2.12	2.83	1.03	2.06	1.49	0.78	1"	0.41	M10 x 35
0186	200	250	32	1 1/4"	IOR-3-FBSP-1 1/4"	1.22	0.82	2.67	3.22	1.18	2.31	1.61	0.86	1 1/4"	0.41	M10 x 40
0187	200	200	38	1 1/2"	IOR-3-FBSP-1 1/2"	1.49	0.98	3.11	3.77	1.40	2.75	1.73	0.94	1 1/2"	0.53	M12 x 45
0188	160	200	51	2"	IOR-3-FBSP-2"	2.00	1.00	3.46	4.01	1.68	3.06	1.77	1.02	2"	0.53	M12 x 45
0189	100	160	64	2 1/2"	IOR-3-FBSP-2 1/2"	2.48	1.02	3.97	4.52	2	3.50	1.96	1.18	2 1/2"	0.53	M12 x 45
0190	100	160	76	3"	IOR-3-FBSP-3"	2.87	1.08	4.88	5.39	2.43	4.18	1.96	1.18	3"	0.66	M16 x 50
High Pressure Series (according to ISO 6162-2) 6000 PSI Series																
0191	350	400	13	1/2"	IOR-6-FBSP 1/2"	0.59	0.64	1.85	2.24	0.71	1.59	1.31	0.59	1/2"	0.34	M8 x 30
0192	350	400	19	3/4"	IOR-6-FBSP-3/4"	0.74	0.78	2.12	2.83	0.93	2	1.31	0.70	3/4"	0.41	M10 x 35
0193	350	400	25	1"	IOR-6-FBSP-1"	0.98	0.94	2.67	3.22	1.09	2.25	1.73	0.78	1"	0.51	M12 x 45
0194	350	400	32	1 1/4"	IOR-6-FBSP-1 1/4"	1.22	1.08	3.11	3.74	1.25	2.62	1.73	0.86	1 1/4"	0.59	M12 x 45
0195	350	400	38	1 1/2"	IOR-6-FBSP-1 1/2"	1.49	1.22	3.46	4.25	1.43	3.12	2.00	0.96	1 1/2"	0.66	M16 x 55
0196	350	400	51	2"	IOR-6-FBSP-2"	1.96	1.45	4.64	5.39	1.75	3.81	2.75	1.29	2"	0.82	M20 x 70

How to Order	
Description	3000 PSI 1/2" Integrated Female BSP Threaded with O Ring Groove
Material	AISI316
Plating	Zinc Nickel
Part No.	0183-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	STRAIGHT VERSION	A	D	F	G	H	I	L	M	T (BSP)	Metric

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0197	350	350	13	1/2"	IFL-3-FBSP-1/2"	0.51	0.62	1.85	2.24	0.68	1.50	1.41	0.59	1/2"	M8
0198	350	350	19	3/4"	IFL-3-FBSP-3/4"	0.74	0.70	1.96	2.63	0.87	1.87	1.41	0.70	3/4"	M10
0199	250	315	25	1"	IFL-3-FBSP-1"	0.98	0.70	2.12	2.83	1.03	2.06	1.41	0.78	1"	M10
0200	200	250	32	1 1/4"	IFL-3-FBSP-1 1/4"	1.22	0.82	2.67	3.22	1.18	2.31	1.61	0.86	1 1/4"	M10
0201	200	200	38	1 1/2"	IFL-3-FBSP-1 1/2"	1.49	0.98	3.11	3.77	1.40	2.75	1.73	0.94	1 1/2"	M12
0202	160	200	51	2"	IFL-3-FBSP-2"	1.96	1.00	3.46	4.01	1.68	3.06	1.77	1.02	2"	M12
0203	100	160	64	2 1/2"	IFL-3-FBSP-2 1/2"	2.48	1.02	3.97	4.52	2	3.50	1.96	1.18	2 1/2"	M12
0204	100	160	76	3"	IFL-3-FBSP-3"	2.87	1.08	4.88	5.39	2.43	4.18	1.96	1.18	3"	M16

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

0205	350	400	13	1/2"	IFL-6-FBSP 1/2"	0.51	0.64	1.85	2.24	0.71	1.59	1.41	0.59	1/2"	M8
0206	350	400	19	3/4"	IFL-6-FBSP-3/4"	0.74	0.78	2.12	2.83	0.93	2	1.41	0.70	3/4"	M10
0207	350	400	25	1"	IFL-6-FBSP-1"	0.98	0.94	2.67	3.22	1.09	2.25	1.73	0.78	1"	M12
0208	350	400	32	1 1/4"	IFL-6-FBSP-1 1/4"	1.22	1.08	3.11	3.74	1.25	2.62	1.73	0.86	1 1/4"	M12
0209	350	400	38	1 1/2"	IFL-6-FBSP-1 1/2"	1.49	1.22	3.46	4.25	1.43	3.12	2.00	0.94	1 1/2"	M16
0210	350	400	51	2"	IFL-6-FBSP-2"	1.96	1.45	4.64	5.39	1.75	3.81	2.75	1.29	2"	M20

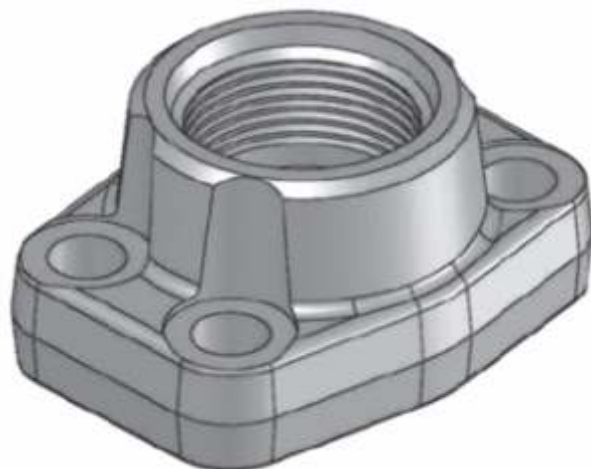
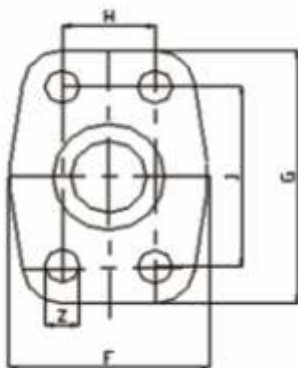
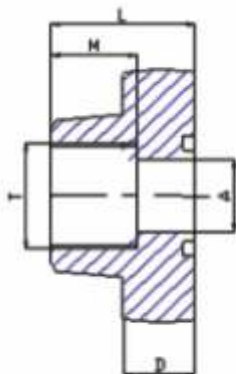
How to Order

Description	3000 PSI 1/2" Integrated Female BSP Threaded with Flat Face
Material	AISI316
Plating	Zinc Nickel
Part No.	0197-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Bolts	
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	STRAIGHT VERSION	OA	D	F	G	H	I	L	M	T NPT	Z	Metric

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0211	350	350	13	1/2"	IOR-3-FNPT-1/2"	0.51	0.62	1.85	2.24	0.68	1.50	1.41	0.59	1/2"	0.34	M8 x 30
0212	350	350	19	3/4"	IOR-3-FNPT-3/4"	0.74	0.70	1.96	2.63	0.87	1.87	1.41	0.70	3/4"	0.41	M10 x 35
0213	250	315	25	1"	IOR-3-FNPT-1"	0.98	0.70	2.12	2.83	1.03	2.06	1.41	0.78	1"	0.41	M10 x 35
0214	200	250	32	1 1/4"	IOR-3-FNPT-1 1/4"	1.22	0.82	2.67	3.22	1.18	2.31	1.61	0.86	1 1/4"	0.41	M10 x 40
0215	200	200	38	1 1/2"	IOR-3-FNPT-1 1/2"	1.49	0.98	3.11	3.77	1.40	2.75	1.73	0.94	1 1/2"	0.53	M12 x 45
0216	160	200	51	2"	IOR-3-FNPT-2"	1.96	1.00	3.46	4.01	1.68	3.06	1.77	1.02	2"	0.53	M12 x 45
0217	100	160	64	2 1/2"	IOR-3-FNPT-2 1/2"	2.48	1.02	3.97	4.52	2	3.50	1.96	1.18	2 1/2"	0.53	M12 x 45
0218	100	160	76	3"	IOR-3-FNPT-3"	2.87	1.08	4.88	5.39	2.43	4.18	1.96	1.18	3"	0.66	M16 x 50

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

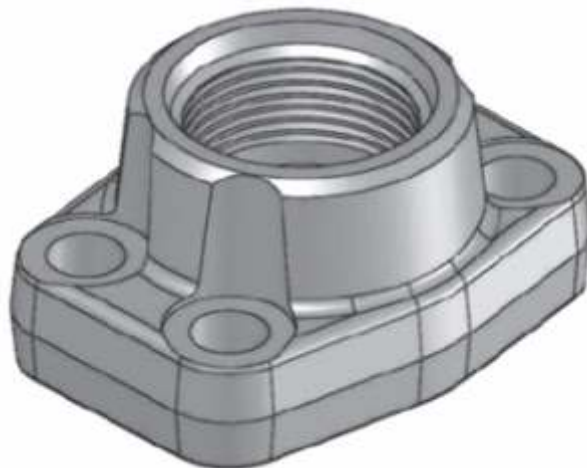
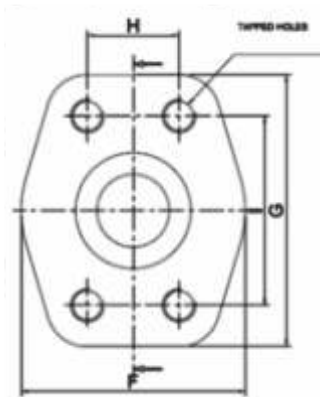
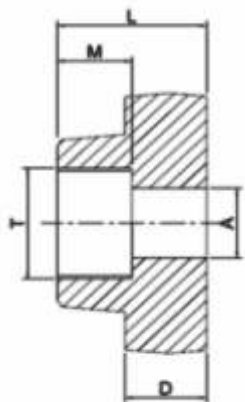
0219	350	400	13	1/2"	IOR-6-FNPT 1/2"	0.51	0.64	1.85	2.24	0.71	1.59	1.41	0.59	1/2"	0.34	M8 x 30
0220	350	400	19	3/4"	IOR-6-FNPT-3/4"	0.74	0.78	2.12	2.83	0.93	2	1.41	0.70	3/4"	0.41	M10 x 35
0221	350	400	25	1"	IOR-6-FNPT-1"	0.98	0.94	2.67	3.22	1.09	2.25	1.73	0.78	1"	0.51	M12 x 45
0222	350	400	32	1 1/4"	IOR-6-FNPT-1 1/4"	1.22	1.08	3.11	3.74	1.25	2.62	1.73	0.86	1 1/4"	0.59	M12 x 45
0223	350	400	38	1 1/2"	IOR-6-FNPT-1 1/2"	1.49	1.22	3.46	4.25	1.43	3.12	2.00	0.94	1 1/2"	0.66	M16 x 55
0224	350	400	51	2"	IOR-6-FNPT-2"	1.96	1.45	4.64	5.39	1.75	3.81	2.75	1.29	2"	0.82	M20 x 70

How to Order	
Description	3000 PSI 1/2" Integrated Female NPT Threaded with O Ring Groove
Material	AISI316
Plating	Zinc Nickel
Part No.	0211-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	STRAIGHT VERSION	A	D	F	G	H	I	L	M	T (NPT)	Metric

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0225	350	350	13	1/2"	IFL-3-FNPT-1/2"	0.51	0.62	1.85	2.24	0.68	1.50	1.41	0.59	1/2"	M8
0226	350	350	19	3/4"	IFL-3-FNPT-3/4"	0.74	0.70	1.96	2.63	0.87	1.87	1.41	0.70	3/4"	M10
0227	250	315	25	1"	IFL-3-FNPT-1"	0.98	0.70	2.12	2.83	1.03	2.06	1.49	0.78	1"	M10
0228	200	250	32	1 1/4"	IFL-3-FNPT-1 1/4"	1.22	0.82	2.67	3.22	1.18	2.31	1.61	0.86	1 1/4"	M10
0229	200	200	38	1 1/2"	IFL-3-FNPT-1 1/2"	1.49	0.98	3.11	3.77	1.40	2.75	1.73	0.94	1 1/2"	M12
0230	160	200	51	2"	IFL-3-FNPT-2"	1.96	1.00	3.46	4.01	1.68	3.06	1.77	1.02	2"	M12
0231	100	160	64	2 1/2"	IFL-3-FNPT-2 1/2"	2.48	1.02	3.97	4.52	2	3.50	1.96	1.18	2 1/2"	M12
0232	100	160	76	3"	IFL-3-FNPT-3"	2.87	1.08	4.88	5.39	2.43	4.18	1.96	1.18	3"	M16

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

0233	350	400	13	1/2"	IFL-6-FNPT 1/2"	0.51	0.64	1.85	2.24	0.71	1.59	1.41	0.59	1/2"	M8
0234	350	400	19	3/4"	IFL-6-FNPT-3/4"	0.74	0.78	2.12	2.83	0.93	2	1.41	0.70	3/4"	M10
0235	350	400	25	1"	IFL-6-FNPT-1"	0.98	0.94	2.67	3.22	1.09	2.25	1.73	0.78	1"	M12
0236	350	400	32	1 1/4"	IFL-6-FNPT-1 1/4"	1.22	1.08	3.11	3.74	1.25	2.62	1.73	0.86	1 1/4"	M12
0237	350	400	38	1 1/2"	IFL-6-FNPT-1 1/2"	1.49	1.22	3.46	4.25	1.43	3.12	2.00	0.94	1 1/2"	M16
0238	350	400	51	2"	IFL-6-FNPT-2"	1.96	1.45	4.64	5.39	1.75	3.81	2.75	1.29	2"	M20

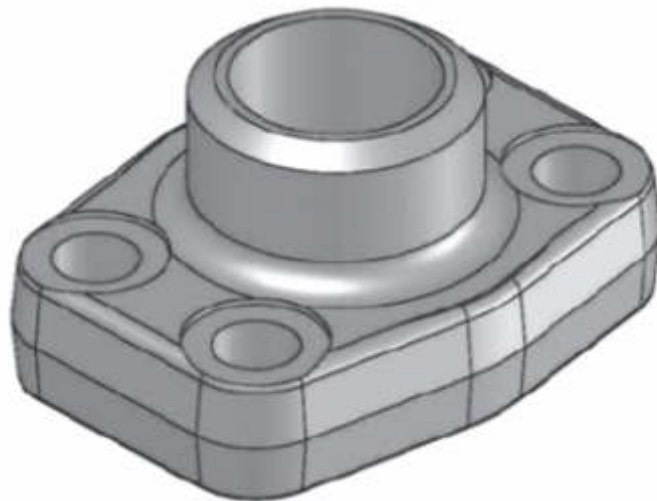
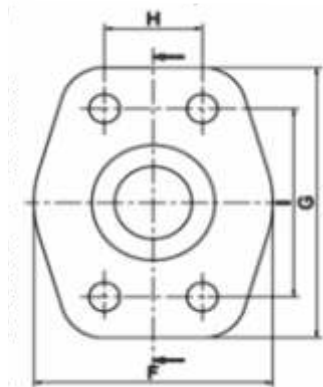
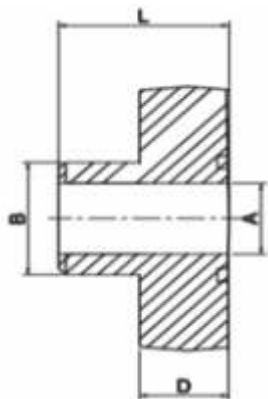
How to Order

Description	3000 PSI 1/2" Integrated Female NPT Threaded with Flat Face
Material	AISI316
Plating	Zinc Nickel
Part No.	0225-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Bolts
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	Buttweld Flange with O Ring Groove	A	B	D	F	G	H	I	L	Z	Metric

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0239	350	350	13	1/2"	IOR-3-BWT-1/2"	0.66	0.85	0.62	1.85	2.24	0.68	1.5	1.41	0.34	M8 x 30
0240	350	350	19	3/4"	IOR-3-BWT-3/4"	0.74	1.07	0.70	1.96	2.63	0.87	1.87	1.41	0.41	M10 x 35
0241	250	315	25	1"	IOR-3-BWT-1"	0.98	1.33	0.70	2.12	2.83	1.03	2.06	1.49	0.41	M10 x 35
0242	200	250	32	1 1/4"	IOR-3-BWT-1 1/4"	1.25	1.68	0.82	2.67	3.22	1.18	2.31	1.61	0.41	M10 x 40
0243	200	200	38	1 1/2"	IOR-3-BWT-1 1/2"	1.49	1.91	0.98	3.11	3.77	1.40	2.75	1.73	0.53	M12 x 45
0244	160	200	51	2"	IOR-3-BWT-2"	2.00	2.40	1.00	3.46	4.01	1.68	3.06	1.77	0.53	M12 x 45
0245	100	160	64	2 1/2"	IOR-3-BWT-2 1/2"	2.48	3.01	1.02	3.97	4.52	2	3.5	1.96	0.53	M12 x 45
0246	100	160	76	3"	IOR-3-BWT-3"	2.79	3.54	1.08	5	5.39	2.43	4.18	1.96	0.66	M16 x 50

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

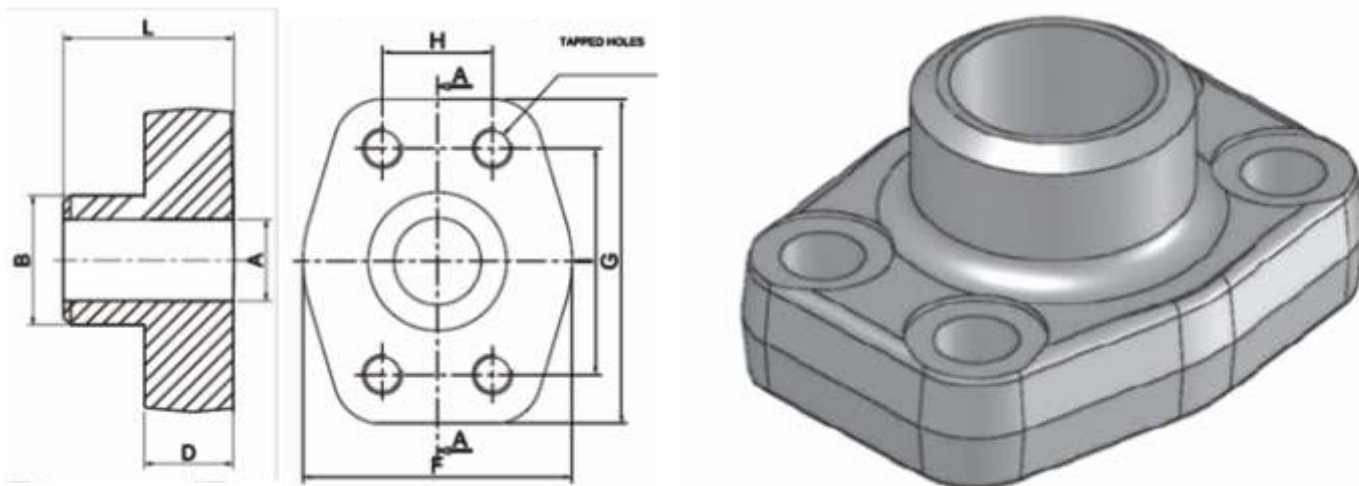
0247	350	400	13	1/2"	IOR-6-BWT-1/2"	0.66	0.85	0.64	1.85	2.24	0.71	1.59	1.41	0.34	M8 x 30
0248	350	400	19	3/4"	IOR-6-BWT-3/4"	0.74	1.10	0.76	2.12	2.83	0.93	2	1.41	0.41	M10 x 35
0249	350	400	25	1"	IOR-6-BWT-1"	0.98	1.33	0.96	2.67	3.22	1.09	2.25	1.73	0.51	M12 x 45
0250	350	400	32	1 1/4"	IOR-6-BWT-1 1/4"	1.14	1.68	1.08	3.11	3.74	1.25	2.62	1.73	0.59	M12 x 45
0251	350	400	38	1 1/2"	IOR-6-BWT-1 1/2"	1.49	1.90	1.22	3.46	4.25	1.43	3.12	2.00	0.66	M16 x 55
0252	350	400	51	2"	IOR-6-BWT-2"	2.00	2.40	1.45	4.64	5.39	1.75	3.81	2.75	0.82	M20 x 70

How to Order	
Description	3000 PSI 1/2" Integrated Butt Weld with O Ring Groove
Material	AISI316
Plating	Zinc Nickel
Part No.	0239-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)										Thread
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	Straight Version Flat Face	A	B	D	F	G	H	I	L	Metric	

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

0253	350	350	13	1/2"	IFL-3-BWT-1/2"	0.51	0.85	0.62	1.85	2.24	0.68	1.5	1.41	M8
0254	350	350	19	3/4"	IFL-3-BWT-3/4"	0.74	1.07	0.70	1.96	2.63	0.87	1.87	1.41	M10
0255	250	315	25	1"	IFL-3-BWT-1"	0.98	1.33	0.70	2.12	2.83	1.03	2.06	1.49	M10
0256	200	250	32	1"1/4	IFL-3-BWT-1"1/4	1.25	1.68	0.82	2.67	3.22	1.18	2.31	1.61	M10
0257	200	200	38	1"1/2	IFL-3-BWT-1"1/2	1.49	1.91	0.98	3.11	3.77	1.40	2.75	1.73	M12
0258	160	200	51	2"	IFL-3-BWT-2"	2.00	2.40	1.00	3.46	4.01	1.68	3.06	1.77	M12
0259	100	160	64	2"1/2	IFL-3-BWT-2"1/2	2.48	3.01	1.02	3.97	4.52	2	3.5	1.96	M12
0260	100	160	76	3"	IFL-3-BWT-3"	2.79	3.54	1.08	5	5.39	2.43	4.18	1.96	M16

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

0261	350	400	13	1/2"	IFL-6-BWT-1/2"	0.51	0.85	0.64	1.85	2.24	0.71	1.59	1.41	M8
0262	350	400	19	3/4"	IFL-6-BWT-3/4"	0.74	1.10	0.76	2.12	2.83	0.93	2	1.41	M10
0263	350	400	25	1"	IFL-6-BWT-1"	0.98	1.33	0.96	2.67	3.22	1.09	2.25	1.73	M12
0264	350	400	32	1"1/4	IFL-6-BWT-1"1/4	1.14	1.68	1.08	3.11	3.74	1.25	2.62	1.73	M12
0265	350	400	38	1"1/2	IFL-6-BWT-1"1/2	1.25	1.90	1.22	3.46	4.25	1.43	3.12	2.00	M16
0266	350	400	51	2"	IFL-6-BWT-2"	1.69	2.40	1.45	4.64	5.39	1.75	3.81	2.75	M20

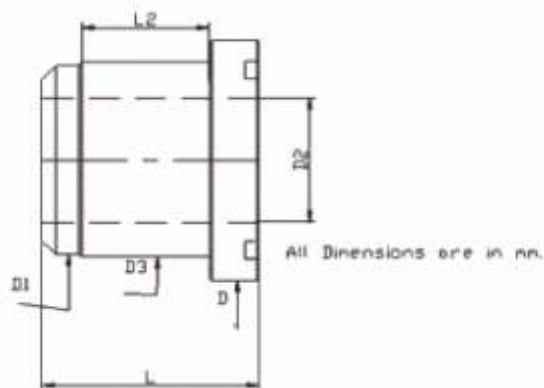
How to Order

Description	3000 PSI 1/2" Integrated Butt Weld Flange with Flat Face
Material	AISI316
Plating	Zinc Nickel
Part No.	0253-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

***Unless Specified Parts will be Black Oxidized.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)						
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	Butt Weld Adapter	D	D1	D2	L	D3	L2

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

267	350	350	13	1/2"	AOR-3-BWA-1/2"	1.18	0.86	0.51	1.61	0.94	0.64
268	350	350	19	3/4"	AOR-3-BWA-1-3/4"	1.50	1.10	0.74	1.96	1.24	0.64
269	250	315	25	1"	AOR-3-BWA-1"	1.74	1.49	0.98	1.96	1.49	-
270	200	250	32	1 1/4"	AOR-3-BWA-1-1/4"	2	1.66	1.22	2.16	1.69	0.66
271	200	200	38	1 1/2"	AOR-3-BWA-1-1/2"	2.37	1.96	1.49	2.24	1.96	-
272	160	200	51	2"	AOR-3-BWA-2"	2.81	2.40	1.85	2.24	2.44	0.70
273	100	160	64	2 1/2"	AOR-3-BWA-2-1/2"	3.31	2.91	2.28	2.36	2.91	-
274	100	160	76	3"	AOR-3-BWA-3"	4	3.54	2.75	2.36	3.54	-

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

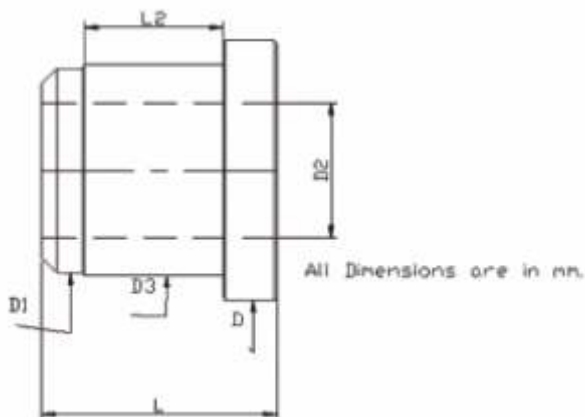
278	350	400	13	1/2"	AOR-6-BWA-1/2"	1.25	0.86	0.51	1.33	0.94	0.62
279	350	400	19	3/4"	AOR-6-BWA-3/4"	1.62	1.10	0.70	1.49	1.25	0.82
280	350	400	25	1"	AOR-6-BWA-1"	1.87	1.49	0.86	1.57	1.49	-
281	350	400	32	1 1/4"	AOR-6-BWA-1-1/4"	2.12	1.66	1.10	1.45	1.73	1.14
282	350	400	38	1 1/2"	AOR-6-BWA-1-1/2"	2.5	2.00	1.25	1.96	2.00	-
283	350	400	51	2"	AOR-6-BWA-2"	3.12	2.40	1.61	2.28	2.40	-

How to Order

Description	3000 PSI 1/2" Butt Weld Adapter
Material	AISI316
Plating	Zinc Nickel
Part No.	0267-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1018
Code	-1	-2	-3	-4	-6

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)						
Part No.	Bolts 8.8	Bolts 10.6	ISO	SAE	Butt Weld Adapter	D	D1	D2	L	D3	L2

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

284	350	350	13	1/2"	AFL-3-BWA-1/2"	1.18	0.86	0.51	1.61	0.94	0.64
285	350	350	19	3/4"	AFL-3-BWA-1-3/4"	1.50	1.10	0.74	1.96	1.24	0.64
286	250	315	25	1"	AFL-3-BWA-1"	1.74	1.49	0.98	1.96	1.49	-
287	200	250	32	1"1/4	AFL-3-BWA-1-1/4"	2	1.66	1.22	2.16	1.69	0.66
288	200	200	38	1"1/2	AFL-3-BWA-1-1/2"	2.37	1.96	1.49	2.24	1.96	-
289	160	200	51	2"	AFL-3-BWA-2"	2.92	2.40	1.85	2.24	2.44	0.70
290	100	160	64	2"1/2	AFL-3-BWA-2-1/2"	3.31	2.91	2.28	2.36	2.91	-
291	100	160	76	3"	AFL-3-BWA-3"	4	3.54	2.75	2.36	3.54	-

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

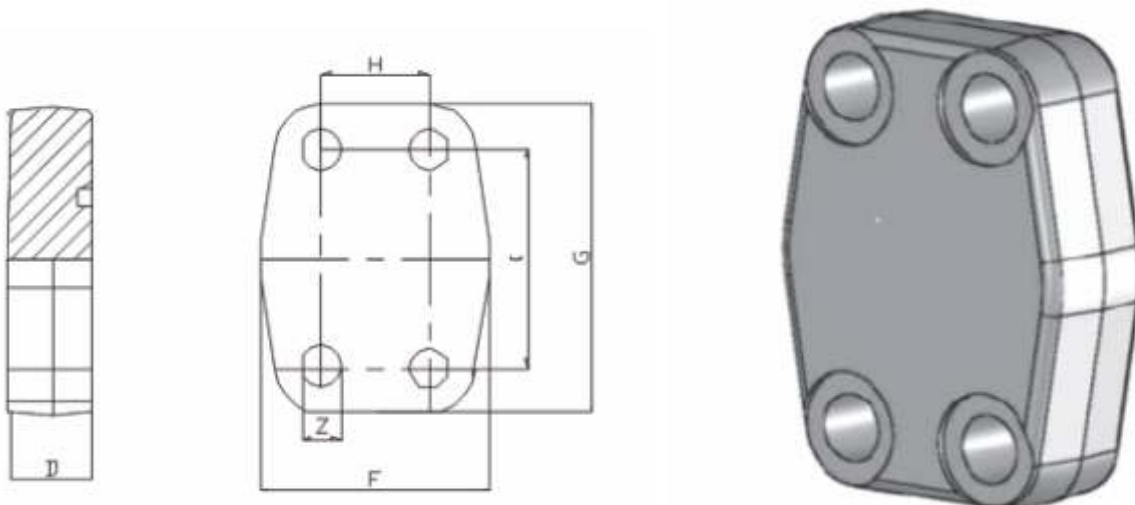
295	350	400	13	1/2"	AFL-6-BWA-1/2"	1.25	0.86	0.51	1.33	0.94	0.62
296	350	400	19	3/4"	AFL-6-BWA-3/4"	1.62	1.10	0.70	1.49	1.25	0.82
297	350	400	25	1"	AFL-6-BWA-1"	1.87	1.49	0.86	1.57	1.49	-
298	350	400	32	1"1/4	AFL-6-BWA-1-1/4"	2.12	1.66	1.10	1.45	1.73	1.14
299	350	400	38	1"1/2	AFL-6-BWA-1-1/2"	2.5	2.00	1.25	1.96	2.00	-
300	350	400	51	2"	AFL-6-BWA-2"	3.12	2.40	1.61	2.28	2.40	-

How to Order

Description	3000 PSI 1/2" Butt Weld Adapter
Material	AISI316
Plating	Zinc Nickel
Part No.	0284-4-Z

Mat.	St52-3	A105	AISI304	AISI316
Code	-1	-2	-3	-4

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Nominal Size		Dimensions (inches)							Bolts	
Part No.	Bolts 8.8 (ML)	Bolts 10.9 (MH)	ISO [DN]	SAE (Inch)	Blind Mono Flange	D	F	G	H	I	Z	Metric	UNC

Standard Pressure Series (according to ISO 6162-1) 3000 PSI Series

384	350	350	13	1/2"	FMB-3---1/2"	0.62	1.85	2.24	0.68	1.5	0.34	M8 x 30	5/16"-18x1"1/4
385	350	350	19	3/4"	FMB-3---3/4"	0.70	1.96	2.63	0.87	1.87	0.41	M10 x 35	3/8"-16x1"1/2
386	250	315	25	1"	FMB-3---1"	0.74	2.12	2.83	1.03	2.06	0.41	M10 x 35	3/8"-16x1"1/2
387	200	250	32	1"1/4	FMB-3---1"-1/4"	0.70	2.67	3.22	1.18	2.31	0.41	M10 x 40	7/16"-14x1"1/2
388	200	200	38	1"1/2	FMB-3---1"-1/2"	0.78	3.11	3.77	1.40	2.75	0.53	M12 x 45	1/2"-13x1"3/4
389	160	200	51	2"	FMB-3---2"	0.78	3.46	4.01	1.68	3.06	0.53	M12 x 45	1/2"-13x1"3/4
390	100	160	64	2"1/2	FMB-3---1"-1/2"	0.78	3.97	4.52	2	3.5	0.53	M12 x 45	1/2"-13x1"3/4
397	100	160	76	3"	FMB-3---3"	0.94	5	5.39	2.43	4.18	0.66	M16 x 50	5/8"-11x2"

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

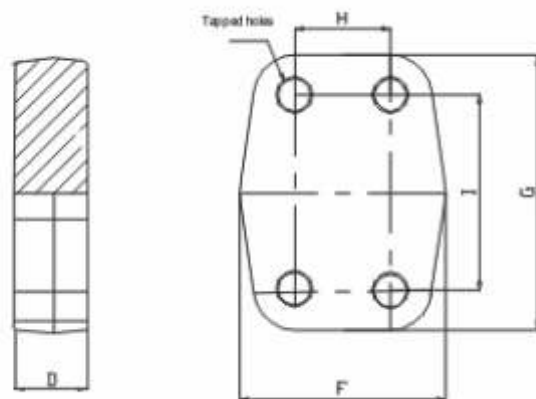
391	350	400	13	1/2"	FMB-6---1/2"	0.62	1.85	2.24	0.71	1.59	0.34	M8 x 30	5/16"-18x1"1/4
392	350	400	19	3/4"	FMB-6---3/4"	0.74	2.12	2.83	0.93	2	0.41	M10 x 35	3/8"-16x1"1/2
393	350	400	25	1"	FMB-6---1"	0.94	2.67	3.22	1.09	2.25	0.51	M12 x 45	7/16"-14x1"3/4
394	350	400	32	1"1/4	FMB-6---1"-1/4"	1.06	3.11	3.74	1.25	2.62	0.59	M12 x 45	-
395	350	400	38	1"1/2	FMB-6---1"-1/2"	1.18	3.46	4.25	1.43	3.12	0.66	M16 x 55	5/8"-11x2"3/4
396	350	400	51	2"	FMB-6---2"	1.18	4.64	5.39	1.75	3.81	0.82	M20 x 65	3/4"-10x2"3/4

How to Order	
Description	3000 PSI 1/2" SAE Blind Mono Flange
Material	AISI316
Plating	Zinc Nickel
Part No.	0100-4-Z

Mat.	St52-3	A105	AISI304	AISI316	SAE1040
Code	-1	-2	-3	-4	-5

***Blind Flange in Carbon Steel comes with Black Oxidized Treatment.

Plating	Trivalent	Hexavalent	Zinc Nickel
Code	-T	-H	-Z



Max Working Pressure (bar)			Normal Size		Dimensions (inches)						
Part No.	Bolts 8.8 (ML)	Bolts 10.9 (MH)	ISO (DN)	SAE (inch)	Blind Mono Flange	D	F	G	H	I	Metric.

Standard Pressure Series (according to ISO6162-1) 3000 PSI Series

397	350	350	13	1/2"	FMB-IFL-3-- 1/2"	0.62	1.85	2.24	0.68	1.5	M8
398	350	350	19	3/4"	FMB-IFL-3---3/4"	0.70	1.96	2.63	0.87	1.87	M10
399	250	315	25	1"	FMB-IFL-3---1"	0.74	2.12	2.83	1.03	2.06	M10
400	200	250	32	1 1/4"	FMB-IFL-3---1"-1/4"	0.70	2.67	3.22	1.18	2.31	M10
401	200	200	38	1 1/2"	FMB-IFL-3---1"-1/2"	0.78	3.11	3.77	1.40	2.75	M12
402	160	200	51	2"	FMB-IFL-3---2"	0.78	3.46	4.01	1.68	3.06	M12
403	100	160	64	2 1/2"	FMB-IFL-3---2"-1/2"	0.78	3.97	4.52	2	3.5	M12
404	100	160	76	3"	FMB-IFL-3---3"	0.94	5	5.39	2.43	4.18	M16

High Pressure Series (according to ISO 6162-2) 6000 PSI Series

405	350	400	13	1/2"	FMB-IFL-6-- 1/2"	0.62	1.85	2.24	0.71	1.59	M8
406	350	400	19	3/4"	FMB-IFL-6---3/4"	0.74	2.12	2.83	0.93	2	M10
407	350	400	25	1"	FMB-IFL-6---1"	0.94	2.67	3.22	1.09	2.25	M12
408	350	400	32	1 1/4"	FMB-IFL-6---1"-1/4"	1.06	3.11	3.74	1.25	2.62	M12
409	350	400	38	1 1/2"	FMB-IFL-6---1"-1/2"	1.18	3.46	4.25	1.43	3.12	M16
410	350	400	51	2"	FMB-IFL-6---2"	1.18	4.64	5.39	1.75	3.81	M20

How to Order

Description	3000 PSI 1/2" SAE BLIND MONO FLANGE
Material	AISI 316
Plating	Zinc Nickel
Part No.	'0100-4-Z

Mat.	ST52-3	A105	AISI304	AISI316
Code	-1	-2	-3	-4

***Blind flange in carbon steel comes with Black Oxidised treatment.

Plating	Trivalent	Hexa-valent	Zinc Nickel
Code	-T	-H	-Z



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For More Information, Contact Us

mkt@tria-group.com | sales@tria-group.com
+91 20 6674 7399 | +91 888 810 3355

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