

## Fabricator Products



SIGMA Corporation stands alone in the industry, providing threaded flanges manufactured using the pinpoint accuracy of the CNC machining process. This process enables SIGMA to produce the most accurate and consistent threaded flange to the ductile iron pipe fabrication industry. If the best flange is what you desire, contact SIGMA for competitive pricing and unmatched customer service.

For use with ductile iron pipe fabricated in accordance with AWWA/ANSI C115/A21.15. Cast Iron per ASTM A126 Class B or ductile Iron per ASTM A536.

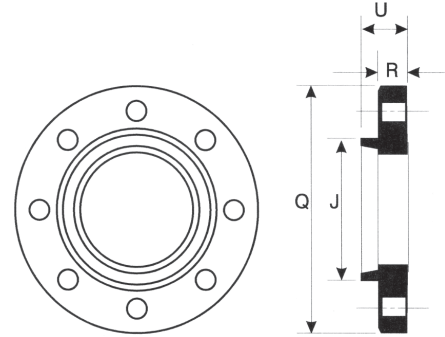
Tapped bolt holes are available for use with stud bolts threaded per ANSI B16.1 where applicable.

Flanges are fully machined, drilled and faced in accordance with ANSI B16.1.

# Fabricator Products

## 125 LB DRILLED HIGH HUB FLANGES (Ductile Iron)

Size	Wt.	Item No.	R	U	Thread Length	Q	J	Bolt Circle	Hole Dia.	Bolt Size	# Holes
3	7	DF3	0.75	1.63	1.06	7.50	4.50	6.00	3/4	5/8 x 2 1/2	4
4	12	DF4	0.94	1.65	1.19	9.00	5.32	7.50	3/4	5/8 x 3	8
6	16	DF6	1.00	1.89	1.38	11.00	7.56	9.50	7/8	3/4 x 3 1/2	8
8	25	DF8	1.12	2.20	1.56	13.50	9.73	11.75	7/8	3/4 x 3 1/2	8
10	35	DF10	1.19	2.32	1.75	16.00	12.06	14.25	1	7/8 x 4	12
12	55	DF12	1.25	2.44	2.00	19.00	14.16	17.00	1	7/8 x 4	12
14	71	DF14	1.38	2.63	2.01	21.00	16.25	18.75	1 1/8	1 x 4 1/2	12
16	87	DF16	1.44	2.63	2.25	23.50	18.44	21.25	1 1/8	1 x 4 1/2	16
18	95	DF18	1.56	3.50	2.45	25.00	20.38	22.75	1 1/4	1 1/8 x 5	16
20	111	DF20	1.69	3.69	2.62	27.50	22.62	25.00	1 1/4	1 1/8 x 5	20
24	158	DF24	1.88	4.12	2.96	32.00	26.91	29.50	1 3/8	1 1/4 x 5 1/2	20
30	198	DF30	2.12	4.69	3.47	38.75	33.31	36.00	1 3/8	1 1/4 x 6 1/2	28
36	350	DF36	2.38	5.31	3.98	46.00	39.62	42.75	1 5/8	1 1/2 x 7	32
42	490	DF42	2.62	5.94	4.48	53.00	46.00	49.50	1 5/8	1 1/2 x 7 1/2	36
48	663	DF48	2.75	6.57	4.99	59.50	52.31	56.00	1 5/8	1 1/2 x 8 1/2	44
54	822	DF54	3.00	7.19	6.19	66.25	58.75	62.75	2	1 3/4 x 8 1/2	44
60	1055	DF60	3.12	7.19	6.19	73.00	63.76	63.76	2	1 3/4 x 9	52
64	1200	DF64	3.38	7.19	6.19	80.00	70.32	76.00	2	1 3/4 x 9	52



## 125 LB TAPPED HIGH HUB FLANGES (Ductile Iron)

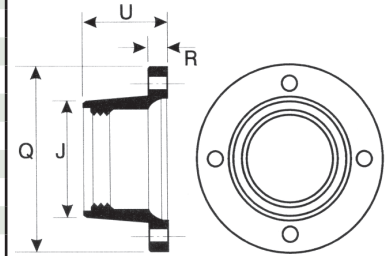
Size	Wt.	Item No.	R	U	Thread Length	Q	J	Bolt Circle	Tap Size	# Holes
3	7	TDF3	0.75	1.63	1.06	7.50	4.50	6.00	5/8-11	4
4	12	TDF4	0.94	1.65	1.19	9.00	5.32	7.50	5/8-11	8
6	16	TDF6	1.00	1.89	1.38	11.00	7.56	9.50	3/4-10	8
8	25	TDF8	1.12	2.20	1.56	13.50	9.73	11.75	3/4-10	8
10	35	TDF10	1.19	2.32	1.75	16.00	12.06	14.25	7/8-9	12
12	55	TDF12	1.25	2.44	2.00	19.00	14.16	17.00	7/8-9	12
14	71	TDF14	1.38	2.63	2.01	21.00	16.25	18.75	1-8	12
16	87	TDF16	1.44	2.63	2.25	23.50	18.44	21.25	1-8	16
18	95	TDF18	1.56	3.50	2.45	25.00	20.38	22.75	1 1/8-7	16
20	111	TDF20	1.69	3.69	2.62	27.50	22.62	25.00	1 1/8-7	20
24	158	TDF24	1.88	4.12	2.96	32.00	26.91	29.50	1 1/4-7	20
30	198	TDF30	2.12	4.69	3.47	38.75	33.31	36.00	1 1/4-7	28
36	350	TDF36	2.38	5.31	3.98	46.00	39.62	42.75	1 1/2-6	32
42	490	TDF42	2.62	5.94	4.48	53.00	46.00	49.50	1 1/2-6	36
48	663	TDF48	2.75	6.57	4.99	59.50	52.31	56	1 1/2-6	44

## EXTRA HEAVY 250LB DRILLED HIGH HUB FLANGES (Ductile Iron)

Size	Wt.	Item No.	R	U	Thread Length	Q	J	Bolt Circle	Hole Diameter	#	Bolt Hole
3	11	HDF3	1.12	1.56	1.19	8.25	4.62	6.62	3/4-10	8	7/8
4	18	HDF4	1.25	1.75	1.31	10.00	5.75	7.88	3/4-10	8	7/8
6	29	HDF6	1.44	1.94	1.56	12.50	8.12	10.62	3/4-10	12	7/8
8	46	HDF8	1.62	2.19	1.75	15.00	10.25	13.00	7/8-9	12	1.00
10	71	HDF10	1.88	2.38	1.94	17.50	12.62	15.25	1-8	16	1.12
12	100	HDF12	2.00	2.56	2.19	20.50	14.75	17.75	1 1/8-7	16	1.25
14	160	HDF14	2.12	2.69	2.26	23.00	16.25	20.25	1 1/8-7	20	1.25
16	230	HDF16	2.25	2.88	2.50	25.50	18.38	22.50	1 1/4-7	20	1.38
18	270	HDF18	2.38	3.00	2.56	28.00	20.53	24.75	1 1/4-7	24	1.38
20	285	HDF20	2.50	3.31	2.87	30.50	22.63	27.00	1 1/4-7	24	1.38
24	310	HDF24	2.75	3.75	3.25	36.00	26.8	32.00	1 1/2-6	24	1.62

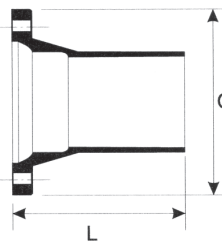
### THREADED MJ BELL ADAPTERS

Size	Item No.	Wt.	O.D.	R	U	Thread Length	Q	J	Bolt Circle	Tap Size	No. Bolts
3	MBA3	11	3.96	0.94	4.12	1.25	7.69	4.5	6.19	5/8-11	4
4	MBA4	16	4.80	1.00	4.25	1.31	9.12	5.32	7.50	3/4-10	4
6	MBA6	23	6.90	1.06	4.43	1.44	11.12	7.56	9.50	3/4-10	6
8	MBA8	31	9.05	1.12	4.75	1.75	13.37	9.73	11.75	3/4-10	6
10	MBA10	41	11.10	1.19	4.87	1.88	15.69	12.06	14.00	3/4-10	8
12	MBA12	55	13.20	1.25	5.12	2.00	17.94	14.16	16.25	3/4-10	8
14	MBA14	85	15.30	1.31	6.50	2.00	20.31	16.25	18.75	3/4-10	10
16	MBA16	105	17.40	1.38	6.75	2.00	22.56	18.43	21.00	3/4-10	12
18	MBA18	125	19.50	1.44	7.00	2.20	24.83	20.53	23.25	3/4-10	12
20	MBA20	150	21.60	1.50	7.24	2.38	27.08	22.63	25.50	3/4-10	14
24	MBA24	235	25.80	1.62	7.50	2.63	31.58	26.82	30.00	3/4-10	16
30	MBA30	375	32.00	1.81	9.13	3.25	39.12	32.75	36.88	1-8	20
36	MBA36	500	38.30	2.00	9.75	4.00	46.00	39.12	43.75	1-8	24
42	MBA42	640	44.50	2.00	10.25	4.50	53.12	45.31	50.62	1 1/4 x 7	28
48	MBA48	810	50.80	2.00	10.25	5.12	60.00	51.75	57.50	1 1/4 x 7	32



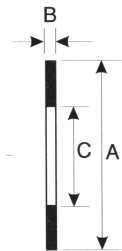
### PLAIN END MJ BELL ADAPTERS

Size	Item No.	L	Wt.
3	MB23	24	39
4	MB24	24	50
6	MB26	24	76
8	MB28	24	107
10	MB210	24	146
12	MB212	24	193
14	MB214	24	184
16	MB216	24	231
18	MB218	24	269
20	MB220	24	360
24	MB224	24	436
30	MB230	24	737
36	MB236	24	1084
42	MB242	24	1228
48	MB248	24	1546



### ANCHOR FLANGES (Ductile Iron)

Size	Wt.	Item No.	A	B	C
3	3	AF3	6.50	0.50	4.03
4	4	AF4	7.40	0.50	4.87
6	5	AF6	9.50	0.50	6.97
8	7	AF8	12.00	0.50	9.13
10	8	AF10	14.10	0.50	11.17
12	11	AF12	16.25	0.50	13.27
14	13	AF14	18.40	0.50	15.38
16	16	AF16	21.00	0.50	17.48
18	18	AF18	23.10	0.50	19.59
20	22	AF20	25.70	0.50	21.69
24	26	AF24	30.00	0.50	25.90
30	49	AF30	37.00	0.63	32.10
36	60	AF36	43.40	0.63	38.40
42	82	AF42	49.50	0.75	44.60
48	94	AF48	55.90	0.75	50.90



### FILLER FLANGES (Cast Iron)

#### 1-1/4" Thick

Size	Item No.	O.D.	Wt.
3	FF31	7.50	11
4	FF41	9.00	15
6	FF61	11.00	20
8	FF81	13.50	29
10	FF101	16.00	37
12	FF121	19.00	52

#### 2-1/4" Thick

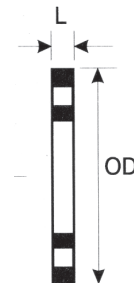
Size	Item No.	O.D.	Wt.
3	FF32	7.50	21
4	FF42	9.00	28
6	FF62	11.00	36
8	FF82	13.50	52
10	FF102	16.00	66
12	FF122	19.00	94

#### 3-1/4" Thick

Size	Item No.	O.D.	Wt.
3	FF33	7.50	28
4	FF43	9.00	37
6	FF63	11.00	48
8	FF83	13.50	69
10	FF103	16.00	88
12	FF123	19.00	126

#### 4-1/4" Thick

Size	Item No.	O.D.	Wt.
3	FF34	7.50	39
4	FF44	9.00	53
6	FF64	11.00	68
8	FF84	13.50	98
10	FF104	16.00	125
12	FF124	19.00	178



LOCATIONS

**Northeast Region**

Cream Ridge, New Jersey (HQ)  
 Phone (800) 999-2550  
 Fax (609) 758-1158  
 crm-sales@sigmaco.com

Victoriaville, Quebec, Canada  
 Phone (888) 744-6262  
 Fax (819) 758-1153  
 jboucher@repco.ca

Innisfil, Ontario, Canada  
 Phone (877) 436-3800  
 Fax (705) 436-6338  
 tanya@concordsupply.ca

**Midwest Region**

Sauk Village, Illinois  
 Phone (888) 999-0420  
 Fax (708) 758-6790  
 chi-sales@sigmaco.com

**Southeast Region**

Alexander City, Alabama  
 Phone (800) 824-4513  
 Fax (256) 234-4956  
 rps-sales@sigmaco.com

**Southwest Region**

Houston, Texas  
 Phone (800) 999-0109  
 Fax (281) 987-0200  
 htn-sales@sigmaco.com

**Western Region**

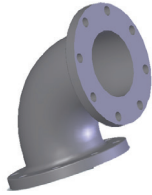
Ontario, California  
 Phone (800) 688-6230  
 Fax (909) 391-2033  
 ont-sales@sigmaco.com

Auburn, Washington  
 Phone (800) 688- 6230

[www.sigmaco.com](http://www.sigmaco.com)

Terms and Conditions of Sales available at our website.

**AWWA Ductile Iron Fittings**



- 2-64" C153 Ductile Iron Mechanical Joint Class 350
- 2-48" C110 Full Body Mechanical Joint
- 2-64" C110 Cast Iron/Ductile Iron Flanged Fittings
- 3-24" C153 TRIM TYTON® Compact Push On Fittings
- 4-24" C110 Full Body Push On Fittings
- C116 Fusion Bonded Epoxy lining available
- PROTECTO 401® ceramic epoxy lining available

**Mechanical Joint Accessories**



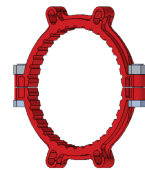
- Prepackaged and loose mechanical joint accessories
- SIGMASEAL™ improved mechanical joint gasket
- Snap-on multi-purpose gasket for ductile iron or PVC pressure pipes
- Ductile iron set screw retainer glands
- OMNI-SLEEVE™ improved wall penetration sleeve
- Specialty bolts and nuts for mechanical joint assemblies

**ONE-LOK™ Wedge Action Restraints**



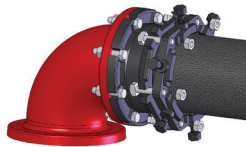
- 3-48" ONE-LOK SLDE restraint for ductile iron pipe (import or domestic)
- 3-36" ONE-LOK SLCE restraint for PVC pipe (import or domestic)
- 3-36" ONE-LOK SLDEH bell joint harness for ductile iron pipe
- 4-12" / 20" ONE-LOK SLDM restraint for oversized cast iron pipe
- 4-36" ONE-LOK SSLD split restraint for existing ductile iron pipe
- 4-36" ONE-LOK SSLDH split restraint harness for existing ductile iron pipe
- 3-12" ONE-LOK SLCEH bell joint harness for PVC pipe

**PV-LOK™ Serration Lock Restraints**



- 4-48" PV-LOK PWM Restraint for MJ Fitting to PVC pipe
- 4-48" PV-LOK PWP Restraint for PVC bell joint restraint
- 4-48" PV-LOK PVPF Restraint for PVC fitting to PVC pipe
- 4-12" PV-LOK PWH PVC bell joint harness
- 2-12" PV-LOK PVM Restraint for MJ Fitting to IPS PVC pipe
- 2-12" PV-LOK PVP Restraint for IPS PVC pipe bell joint
- 4-8" PV-LOK PVPF Restraints for IPS PVC pressure fitting

**Flange Adapters**



- 3-36" SIGMAFLANGE SFA flange adapter sleeve for PVC and DIP
- 2-48" ZIP FLANGE set screw style flange adapter

**Municipal Construction Castings**



- Manhole Rings and Covers
- Curb and Meter Boxes
- Frames and Grates
- Storm Inlets
- Valve Boxes, Risers, and Extensions

**Products for the Ductile Iron Fabricator**



- 3-64" High Hub Threaded Flanges
- 3-48" Tapped High Hub Threaded Flanges
- 3-36" Extra Heavy 250lb Drilled Threaded Flanges
- 3-48" Threaded MJ Bell Adapters
- 3-48" MJ x PE Bell adapter (2ft)
- 3-48" Anchor Flanges
- 3-16" Filler Flanges

**Extended Range Products**



- FLANGE-PAK™ prepackaged flange accessory sets
- Polyethylene encasement for ductile iron pipe
- Copper tubing products
- Tracer wire & detectable/non-detectable marking tape
- Pipe joint lubricant & hydraulic cement
- Socket clamps and tie rod accessories
- BOXLOK Valve Box Alignment Device
- Cast Iron Companion Flanges

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