



Steel Split Flanges

Data Sheet DS65-300-3

Introduction

Pfautler steel split flanges are available in Class 150 and Class 300 ASME B16.5 drilling standards. Standard split flanges range in nozzle size from 1½ through 12 inches.

As illustrated in Figure 1, Class 150 split flanges are manufactured in both the familiar rounded type and also a squared version. The squared split flanges are in smaller sizes only (1½ through ¾ inches)

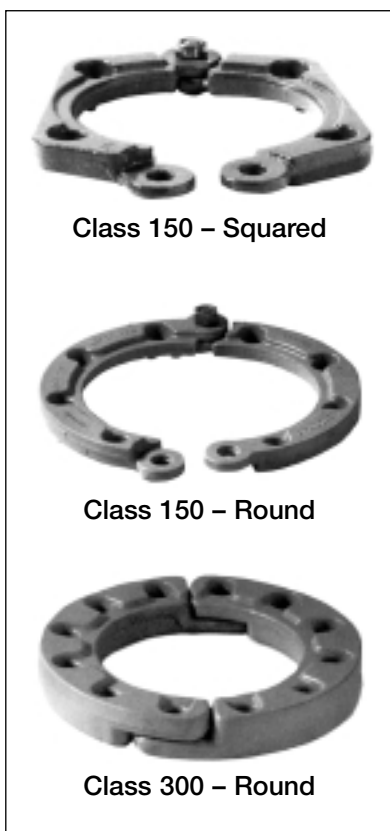


Figure 1. Pfautler Split Flanges

to accommodate application conditions where flange clearance is at a minimum.

Forged steel construction (type SA-181CL.60) is featured in Pfautler Class 150 split flanges, 1½- through 8-inch sizes. The Class 150, 10- through 12-inch, split flanges and Class 300 flanges are of cast steel construction (type SA-216 GR.WCB).

Pressure-Temperature ratings for split flanges are shown in Table 1. Where additional mechanical strength is required, Class 300 flanges are used in place of Class 150 flanges regardless of operating pressure. (Examples are the flanges on 6-inch baffle nozzles and drive nozzles of vessels exceeding 2000 gal. capacity.

Application

Pfautler split flanges are used to connect accessories such as seal housings, valves and baffles to the nozzles of Pfautler glassed-steel vessels. They are also used to inter-connect glassed pipe and fittings.

Pfautler split flanges meet the requirements of ASME code and are for use on Glasteel® or Nucrite® vessels only. They are not for use on alloy vessels or as jacket connections on any type of vessel.

WARNING: Pfautler split flanges must not be used on any nozzle that is not a Pfautler-brand nozzle made to U.S. standards. Dimensional differences exist which may result in failure of the closure under normal operating conditions, possibly resulting in injury, loss of life, or property damage.

Table I – Pressure-Temperature Ratings

Max. Pressure (psi)	Temperature (°F)	Max. Pressure (psi)	Temperature (°F)
Class 150 Flanges – 1½ thru 8 inches		Class 150 Flanges – 1½ thru 8 inches (cont'd)	
125	650	212	250
140	600	215	200
155	550	225	150
170	500	235	-20 thru 100
185	450	Class 150 Flanges – 10 thru 12 in.	
200	400	150 max.	-20 thru 500
205	350	Class 300 Flanges – 1½ thru 12 in.	
210	300	400 max.	-20 thru 650

Class 150 Specifications

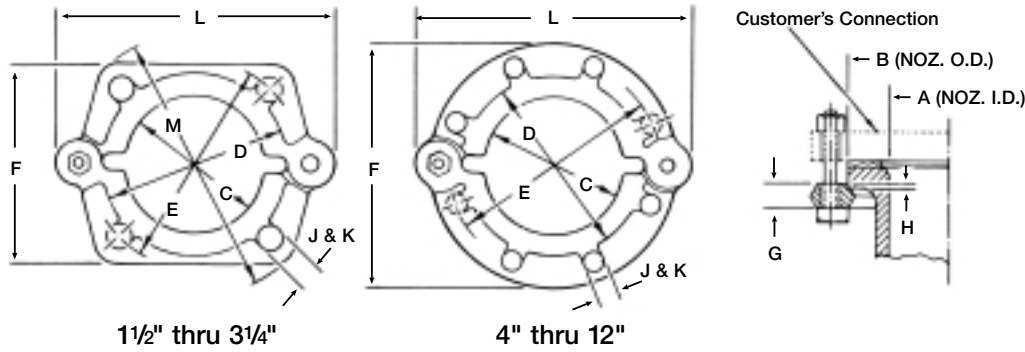


Table II

Part Number	A Noz. I.D.	B Flange Noz. O.D.	C	D	E	F	G	H	J Bolt* Size	K No. Holes	L	M	Weight (lb.)
1110015	1 1/2	3 3/8	2 5/8	3 1/2	3 7/8	3 7/8	9/16	1/8	1/2	4	5 5/8	5	1 1/4
1110002	2(2 3/8)	4	3 3/8	4	4 3/4	4 5/8	5/8	1/8	5/8	4	6 3/8	6	1 3/4
1110003	3(3 1/4)	5 5/16	4 1/2	5 7/16	6	5 7/8	11/16	1/8	5/8	4	8 7/16	7 5/8	3 1/4
1110004	4(4 3/8)	6 1/2	5 3/4	6 11/16	7 1/2	8 3/4	3/4	3/16	5/8	8	9 3/8	-	5 1/2
1110005	5(5 3/8)	7 1/2	6 7/8	7 5/8	8 1/2	10	13/16	3/16	3/4	8	11 3/8	-	8
1110006	6(5 3/4)	8 1/2	7 13/16	8 11/16	9 1/2	11 1/8	7/8	1/4	3/4	8	12 3/8	-	10 1/4
1110008	8	10 1/2	9 13/16	10 5/8	11 3/4	13 1/2	7/8	1/4	3/4	8	14 3/8	-	13 3/4
1110010	10	13	11 3/4	13 1/4	14 1/4	16	7/8	1/4	7/8	12	16 15/16	-	16 3/4
1110012	12	15 1/8	14 3/8	15 1/4	17	19	1 1/4	1/4	7/8	12	19 3/4	-	23 1/2

* Material should be in accordance with SA-193, GR.B7 and SA-194, GR.2H (nut)

Class 300 Specifications

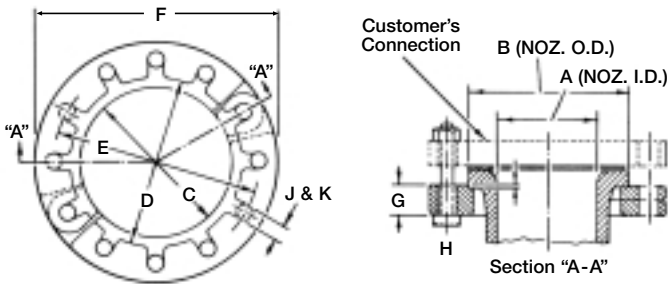


Table III

Part Number**	A Noz. I.D.	B Flange Noz. O.D.	C	D	E	F	G	H	J Bolt* Size	K No. Holes	Weight (lb.)
1100115	1 1/2	3 3/8	2 7/8	3 9/16	4 1/2	6 1/8	13/16	1/4	3/4	4	1 1/2
2052996	2(2 3/8)	4	3 1/2	4 1/16	5	6 1/4	7/8	1/4	5/8	8	2
1100103	3(3 1/4)	5 5/16	4 11/16	5 7/16	6 5/8	8 1/4	1 1/8	1/4	3/4	8	4
1100104	4(4 3/8)	6 1/2	5 7/8	6 5/8	7 7/8	10	1 1/4	1/4	3/4	8	6 1/2
1100105	5(5 3/8)	7 1/2	6 7/8	7 5/8	9 1/4	11	1 7/16	1/4	3/4	8	10
1100106	6(5 3/4)	8 1/2	7 3/4	8 11/16	10 5/8	12 1/2	1 11/16	1/4	3/4	12	12
1100108	8	10 1/2	9 7/8	10 5/8	13	15	1 5/8	1/4	7/8	12	16
1100110	10	13	11 3/4	13 1/8	15 1/4	17 1/2	1 7/8	1/4	1	16	20
1100112	12	15 1/8	14 3/8	15 1/2	17 3/4	20 1/2	2	1/4	1 1/8	16	28

* Material should be in accordance with SA-193, GR.B7 and SA-194, GR.2H (nut)
 **Part numbers are for each half, (2) required per assembly.

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1000 West Avenue
 PO Box 23600
 Rochester, NY 14692-3600
 Phone: 716 235 1000
 Fax: 716 235 6393
 www.pfaudler.com



Glasteel® Parts and Services
 A Unit of Pfaudler, Inc.

1999 Mt. Read Blvd.
 PO Box 20857
 Rochester, NY 14602
 Phone: 716 235 1010
 Fax: 716 235 7923

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