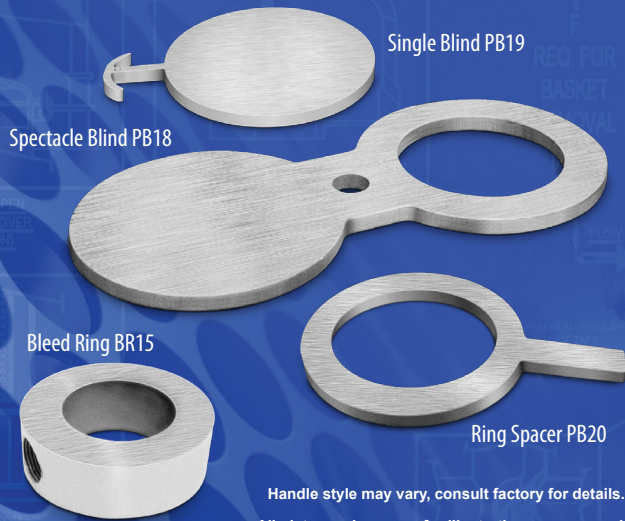


SPECTACLE BLINDS | CLOSED BLINDS OPEN BLINDS (RING SPACER) BLEED RINGS



Handle style may vary, consult factory for details.
All pictures shown are for illustrative purposes only.
Actual product may vary due to product enhancement.

Titan Blinds provide Complete, Positive Shutoff, Bleed Rings allow pipeline draining, taking samples and attaching instruments.

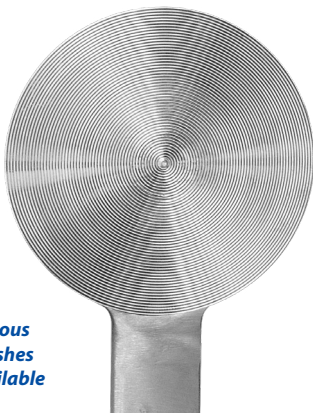
Venting, Purging and Blind Storage Racks are also available
Please contact us for more information.

Models

Name	Description
PB 18	Spectacle Blind
PB 19	Single Blind
PB 20	Ring Spacer
BR 15	Bleed Ring

Materials

Stainless Steel
Carbon Steel



Various
Finishes
Available

Titan Blind Benefits

- Provides Permanent - Positive Shutoff
- Promotes Safety during downstream Service Operations
- Spectacle Blinds provide Visible Shutoff
- Economical Solution when compared to Isolation Valves
- Quick - One Man Operation
- Can be used with liquids, solids, slurries and gases.

Body Materials

Standard materials are stainless steel and carbon steel. Contact factory for additional materials. Special Coatings are also available for highly corrosive applications.

End Connections

Available with raised or flat-faced blinds. Ring type joints are also available.

Finishes

Available with serrated (phonographic style) surface or ground finished. Surface dimension in Micro-inch ASA 500, 250, 125, 63, or 32 should be specified; standard is a smooth finish.

Referenced Standards - Blinds and Bleed Rings

- ASME B16.5 - Pipe Flanges and Flanged Fittings
- ASME B16.20 - Metallic Gaskets for Pipe Flanges
- ASME B16.47 - Large Diameter Steel Flanges
- ASME B16.48 - Line Blanks

Note: Pipeline Blinds are not the same as bolted on, Blind Flanges.

Titan Bleed Ring Benefits

- Can often be used in place of orifice flanges
- The ability to safely drain pipeline liquid
- Easy access for taking samples
- Convenient method of attaching equipment
- Can be used as pressure releasing rings
- Standard sizes stocked for quick delivery

Illustrations represent Titan FCI's fabricated PB 18, PB 19, PB 20 & BR 15. Titan's fabricated products are made to each customer's unique specifications. Dimensions, materials, illustrations, and all other product details referenced in this literature are general in nature. All pictures shown are for illustrative purposes only. Actual product may vary due to product enhancement. Some options may not be available in all sizes and/or models. Titan FCI reserves the right to make design and specification changes to improve the products without prior notification. **For exact product specifications, please consult the Titan FCI factory and request certified engineering drawings.**



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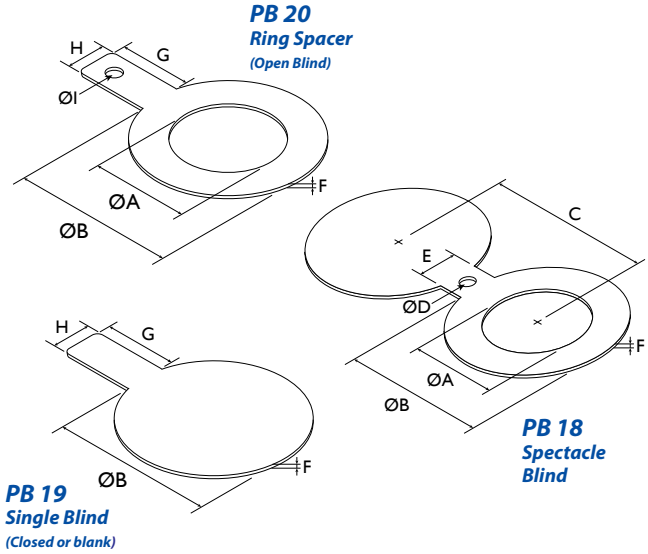
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Spectacle Blinds and Single Blinds

PB 18 | PB 19 | PB 20

ASME CLASS 150 BLINDS						
Nominal Pipe Size ⁽²⁾	ØA (ID)	ØB (OD)	C (Ctr. to Ctr.)	ØD (Pivot Hole)	E (Web Width)	F (Thickness)
1/2	0.62	1.75	2.38	0.62	1.5	0.12
3/4	0.82	2.12	2.75	0.62	1.5	0.12
1	1.05	2.5	3.12	0.62	1.5	0.12
1 1/4	1.66	2.88	3.5	0.62	1.5	0.25
1 1/2	1.9	3.25	3.88	0.62	1.5	0.25
2	2.38	4	4.75	0.75	2	0.25
2 1/2	2.88	4.75	5.5	0.75	2	0.25
3	3.5	5.25	6	0.75	2.5	0.25
3 1/2	4	6.25	7	0.75	2.5	0.38
4	4.5	6.75	7.5	0.75	2.5	0.38
5	5.56	7.62	8.5	0.88	3	0.38
6	6.62	8.62	9.5	0.88	3	0.5
8	8.62	10.88	11.75	0.88	3	0.5
10	10.75	13.25	14.25	1	4	0.62
12	12.75	16	17	1	4	0.75
14	14	17.62	18.75	1.12	4.25	0.75
16	16	20.12	21.25	1.12	4.25	0.88
18	18	21.5	22.75	1.25	4.5	1
20	20	23.75	25	1.25	4.75	1.12
24	24	28.12	29.5	1.38	5.5	1.25



Handle Dimensions (All Classes)			
Size Ranges	G (Length)	H (Width)	ØI (Hole)
½" - 3"	4	1	0.5
3½" - 10"	5	1	0.5
12"	5	1.5	0.75
14" - 24"	6	1.5	0.75

Illustrations represent Titan FCI's fabricated PB 18, PB 19, & PB 20. Titan's fabricated products are made to each customer's unique specifications. Dimensions, materials, illustrations, and all other product details referenced in this literature are general in nature. Some options may not be available in all sizes and/or models. Titan FCI reserves the right to make design and specification changes to improve the products without prior notification. **For exact product specifications, please consult the Titan FCI factory and request certified engineering drawings.**

ASME CLASS 300 BLINDS						
Nominal Pipe Size ⁽²⁾	ØA (ID)	ØB (OD)	C (Ctr. to Ctr.)	ØD (Pivot Hole)	E (Web Width)	F (Thickness)
1/2	0.62	2	2.62	0.62	1.5	0.25
3/4	0.82	2.5	3.25	0.75	1.5	0.25
1	1.05	2.75	3.5	0.75	1.5	0.25
1 1/4	1.66	3.12	3.88	0.75	1.5	0.25
1 1/2	1.9	3.62	4.5	0.88	1.5	0.25
2	2.38	4.25	5	0.75	2.0	0.38
2 1/2	2.88	5	5.88	0.88	2.0	0.38
3	3.5	5.75	6.62	0.88	2.5	0.38
3 1/2	4	6.38	7.25	0.88	2.5	0.5
4	4.5	7	7.88	0.88	2.5	0.5
5	5.56	8.38	9.25	0.88	3	0.62
6	6.62	9.75	10.62	0.88	3	0.62
8	8.62	12	13	1	3	0.88
10	10.75	14.12	15.25	1.12	4	1
12	12.75	16.5	17.75	1.25	4	1.12
14	14	19	20.25	1.25	4.25	1.25
16	16	21.12	22.5	1.38	4.25	1.5
18	18	23.38	24.75	1.38	4.5	1.62
20	20	25.62	27	1.38	4.75	1.75
24	24	30.38	32	1.62	5.5	2

ASME CLASS 600 BLINDS						
Nominal Pipe Size ⁽²⁾	ØA (ID)	ØB (OD)	C (Ctr. to Ctr.)	ØD (Pivot Hole)	E (Web Width)	F (Thickness)
1/2	0.62	2	2.62	0.62	1.5	0.25
3/4	0.82	2.5	3.25	0.75	1.50	0.25
1	1.05	2.75	3.5	0.75	2.25	0.25
1 1/4	1.44	3.12	3.88	0.75	2.25	0.38
1 1/2	1.68	3.62	4.5	0.88	2.62	0.38
2	2.16	4.25	5	0.75	2.25	0.38
2 1/2	2.64	5	5.88	0.88	2.62	0.5
3	3.26	5.75	6.62	0.88	2.62	0.5
3 1/2	3.76	6.25	7.25	1	3	0.62
4	4.26	7.5	8.5	1	3	0.62
5	5.3	9.38	10.5	1.12	3.38	0.75
6	6.36	10.38	11.5	1.12	3.38	0.88
8	8.33	12.5	13.75	1.25	3.75	1.12
10	10.42	15.62	17	1.37	4.12	1.38
12	12.39	17.88	19.25	1.37	4.12	1.62
14	13.62	19.25	20.75	1.5	4.5	1.75
16	15.62	22.12	23.75	1.62	4.88	2
18	17.62	24	25.75	1.75	5.25	2.12
20	19.56	26.75	28.5	1.75	5.25	2.5
24	23.5	31	33	2	6	2.88

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