

CONVENTIONAL PREBULGED COMPOSITE TYPE HO / HOV



DESCRIPTION

The HO/HOV series bursting discs are consisting of 2 to 4 component parts that form a single unit. The basic components of the HO type are a seal member and a slotted top section. To ensure the predictable bursting pressure a tension failure of the mechanically weakened top section is programmed for, where the seal merely transmits the pressure load to the top section. Due to the modular design concept the HO/HOV type bursting discs are available in a large variety of executions to cover most industry requirements.



APPROVALS:

- CE
- UD

FEATURES AND BENEFITS

- Simple, modular construction with large variety of application specific solutions
- 85% operating ratio
- Available in a wide range of corrosion resistant materials, including fluoropolymers
- Best cost-effective protection available
- Wide range of standard configurations to suit most industry applications



SPECIFICATIONS

Type of Disc	HO, HOV – PLHO, PLHOV (Fluoropolymer seal only)						PLHO – PLHOV
Action	Forward-Acting						
Sizes ¹	DN25 - DN1100 (1/2" – 44")						
Disc Material	Aluminum 1100	1.4401 / 1.4404 (316 / 316L SST)	Nickel 200 / 201	Monel® 400	Inconel® 600	Silver	Fluoropolymer
Max. Operating Temperature	316°C	482°C	427°C	482°C	593°C	121°C	260°C
Protective Coating ²	Yes						
Ratio of Operating Pressure to Minimum Burst Pressure ³	85%						
Cycling Duty ³	R	R	R	R	R	R	R
Pulsating Duty (light)	R	R	R	R	R	R	R
Pulsating Duty (heavy)	R	MC	R	R	R	MC	R
Full or Partial Vacuum ³	R	R	R	R	R	R	R
Polymerisation Processes	NR	NR	NR	NR	NR	NR	NR
Hydraulic Service	R	R	R	R	R	R	R
Minimal Fragmentation	MC	MC	MC	MC	MC	MC	MC
Seat Configuration	30° ⁴						
Use in Flanged Holders – Type BT	Yes						
Use in Union Type Holders – Type UT	Yes						
Use in Screw Type Holders – Type ST	Yes						

R = RECOMMENDED MC = MARGINAL CONDITIONS NR = NOT RECOMMENDED

(1) Consult Fike for discs > DN600 (24").

(2) Maximum temperature for various coatings: Urethane Acrylic 65°C, Urethane 120°C and Fluoropolymer 230°C.

(3) Cycling duty and vacuum service only recommended with vacuum support - model HOV, model PLHOV.

(4) Flat seat design for sizes exceeding DN600 (24").



BURST PRESSURES IN BARG AT 22°C ¹

Seal Material	Aluminum 1100		Aluminum 1100, Teflon® coated one side		Aluminum 1100, Teflon® coated both sides		Aluminum 1100, Polyurethane coated one side		1.4401 (316 SST) / 1.4404 (316L SST)		Nickel 200/201		Monel® 400		Inconel® 600		Silver		Fluoropolymer		
	Size	Max. Temp: 316°C		Max. Temp: 121°C		Max. Temp: 121°C		Max. Temp: 121°C		Max. Temp: 482°C		Max. Temp: 427°C		Max. Temp: 482°C		Max. Temp: 593°C		Max. Temp: 121°C		Max. Temp: 260°C	
ANSI	DN	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1"	25	3.52	103.42	3.52	103.42	5.17	103.42	3.65	103.42	33.24	413.69	13.10	413.69	17.24	413.69	28.27	413.69	12.96	413.69	2.18	32.06
1 ½"	40	2.41	103.42	2.41	103.42	3.65	103.42	2.62	103.42	25.17	206.85	8.83	206.85	12.07	206.85	19.99	206.85	8.83	206.84	1.59	21.03
2"	50	1.59	77.57	2.07	77.57	2.90	77.57	2.28	77.57	13.45	206.85	5.17	206.85	7.24	206.85	12.41	206.85	5.72	206.84	1.03	13.79
3"	80	1.03	51.71	1.45	51.71	2.62	51.71	1.59	51.71	9.31	206.85	3.17	206.85	5.52	206.85	8.96	206.85	3.65	206.84	0.83	9.65
4"	100	0.83	41.37	1.17	41.37	1.59	41.37	1.24	41.37	7.24	206.85	2.62	206.85	3.72	206.85	6.89	206.85	2.62	155.13	0.55	7.24
6"	150	0.76	31.03	0.83	31.03	1.03	31.03	0.83	31.03	5.86	148.93	2.28	148.93	2.96	148.93	5.17	148.93	2.07	103.42	0.41	5.52
8"	200	0.55	23.30	0.55	23.30	0.83	23.30	0.62	23.30	4.48	99.29	1.65	99.29	2.55	99.29	2.76	99.29	1.79	51.71	0.31	4.83
10"	250	0.41	18.13	0.55	18.13	0.83	18.13	0.62	18.13	3.45	49.64	1.38	49.64	2.07	49.64	2.21	49.64	-	-	0.25	4.48
12"	300	0.28	15.51	0.41	15.51	0.76	15.51	0.55	15.51	3.45	49.64	1.38	49.64	1.93	49.64	1.86	49.64	-	-	0.21	3.79
14"	350	0.28	15.51	0.41	15.51	0.62	15.51	0.55	15.51	3.31	49.64	1.38	49.64	1.79	49.64	1.59	49.64	-	-	0.18	3.45
16"	400	0.28	15.51	0.41	15.51	0.62	15.51	0.55	15.51	3.04	49.64	1.24	49.64	1.65	49.64	1.38	49.64	-	-	0.16	3.10
18"	450	0.28	12.96	0.41	12.96	0.62	12.96	0.55	12.96	2.62	49.64	1.24	49.64	1.52	49.64	1.24	49.64	-	-	0.14	2.76
20"	500	0.28	12.96	0.41	12.96	0.62	12.96	0.55	12.96	2.07	49.64	1.24	49.64	1.38	49.64	1.10	49.64	-	-	0.12	2.41
24"	600	0.28	10.34	0.41	10.34	0.62	10.34	0.55	10.34	1.86	49.64	2.76	49.64	3.79	49.64	3.10	49.64	-	-	0.10	2.76

(1) Lower burst pressures may be possible – consult factory.

PERFORMANCE TOLERANCES ¹

Burst Pressure in barg at 22°C	Performance Tolerance at 22°C
≤ 1.5	± 0.14 barg
1.5 < burst pressure < 2.76	stand. ± 10% / red. ± 0.14 barg
≥ 2.76	stand. ± 10% / red. ± 5%

(1) Consult Fike for possibility to reduce tolerances.

Performance tolerance as specified by ISO/EN is a total tolerance which includes both manufacturing and bursting tolerance.

As per ISO/EN the bursting discs can be marked with:

- Specified burst pressure with a performance tolerance (in % or a value)
E.g.: 10 barg at 22°C ± 10% (± 1 barg).
- Maximum and minimum burst pressure.
E.g.: Max 11 barg at 22°C - min 9 barg at 22°C

On request bursting discs can be marked as per ASME code section VIII with the average burst test result and the bursting tolerance of ± 5% for burst pressures ≥ 2.76 barg. (0.14 barg for burst pressures < 2.76 barg).