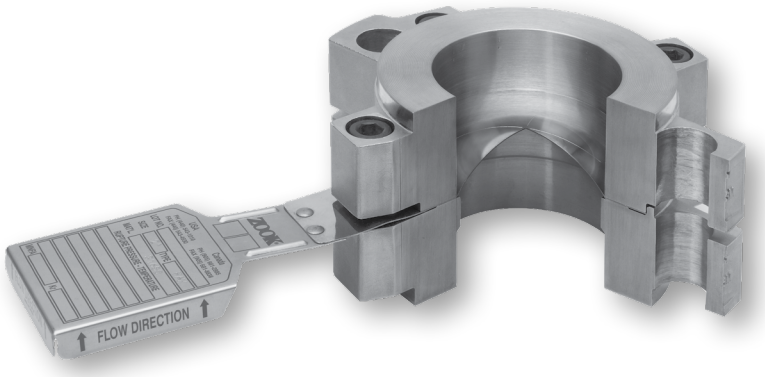
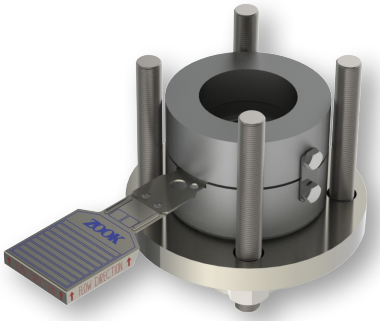
FAH Series
Pre-Torque Rupture Disk Holder

Features

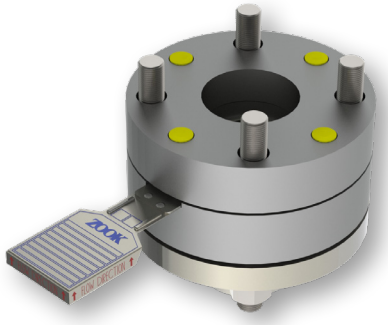
- FAH Series offers one unique holder design that fits with multiple types of ZOOK Forward-Acting metal rupture disks (FAC, FAX)
- Pre-Torque Design allows for:
  a) Pre-assembly of a rupture disk into a holder prior to field installation
  b) Removal of the assembly from the piping system for inspection without disturbing the seal integrity of the rupture disk
  c) Pre-torque bolts properly seat the disk by engaging the holder bite
- Disk Dome is contained within holder's outlet, which prevents damaging the disk during installation into mating flanges
- Locating Pin allows only forward-acting type disks to be mounted into holder
- Fluoropolymer coated socket head cap screws resists corroding to holder assembly and provides easy removal without special sockets
- Polyethylene cap screw covers prevents debris from building up in cap screw head
- Sizes 1" thru 12"
- Standard cast holder materials: Carbon Steel (WCB), Stainless Steel (CF3M), Hastelloy (CW12MW)
- Holder information is permanently affixed to the O.D. of holder
- Bubble tight metal-to-metal bite and disk seal
- Flow direction arrows on disk tag and holder provides permanent visual verification that holder assembly is properly oriented in the piping system
- ANSI, DIN, and JIS Flange class and type specific, guards against installing an assembly into mating flanges with a different pressure rating than the rupture disk holder
- Positioning hole in mounting lug is located in the exact position as the mating flange and allows for proper alignment. It can also be used as an extra "hand" when installing into horizontal piping
- For custom materials and alternative flanges (types/ratings) ZOOK offers custom inserts (FAHI) or full flanges (FAH7) and custom overall heights



Cut-out view of FAH (Pre-torque holder)



FAHI (Insert holder)



FAH7 (Full flanged pre-torque holder)

FAH Series Specifications

Holder Dimensions / Specifications

Nominal Size	Available Flange Class* (ANSI / DIN)	Minimum Height◆ (in. / mm)	Standard Height (in. / mm)			Weight (Short Pattern) (lbs / kgs)	Number of Cap Screws	Cap Screws Hex Size (in.)	Gauge tap (NPT) (in.)
			Short Pattern FAH	Mid Pattern FAH-LP1	Long Pattern FAH-LP2				
1"	150/300/600	1-9/16	2-1/8	2-11/32	2-9/16	3.8 lbs	4	3/16	1/8, 1/4 ▲
25 mm	10/16/25/40	39.68	53.97	59.53	65.09	1.72 kgs	4	3/16	1/8, 1/4
1-1/2"	150/300/600	1-11/16	2-1/4	2-29/32	3-9/16	6.4 lbs	4	1/4	1/8, 1/4
40 mm	10/16/25/40	42.86	57.15	73.82	90.49	2.9 kgs	4	1/4	1/8, 1/4
2"	150/300/600	2-5/32	2-23/32	3-15/16	5-5/32	9.0 lbs	4	5/16	1/8, 1/4, 1/2
50 mm	10/16/25/40	54.77	69.06	100	130.97	4.08 kgs	4	5/16	1/8, 1/4, 1/2
2-1/2"	150/300/600	2-9/16	3-1/8	4-15/16	6-23/32	16.6 lbs	4	3/8	1/8, 1/4, 1/2
65 mm	10/16/25/40	65.09	79.38	125.41	170.66	7.5 kgs	4	3/8	1/8, 1/4, 1/2
3"	150/300/600	2-9/16	3-1/8	4-15/16	6-23/32	16.6 lbs	4	3/8	1/8, 1/4, 1/2
80 mm	10/16/25/40	65.09	79.38	125.41	170.66	7.5 kgs	4	3/8	1/8, 1/4, 1/2
4"	150/300	2-19/32	3-5/32	5-31/32	8-3/4	22.5 lbs	4	3/8	1/8, 1/4, 1/2
100 mm	10/16/25/40	65.88	80.17	151.61	222.25	10.2 kgs	4	3/8	1/8, 1/4, 1/2
6"	150/300	3-7/32	3-7/16	6-25/32	10-3/32	36.00 lbs	8	5/16	1/8, 1/4, 1/2
150 mm	10/16/25/40	81.76	87.31	172.24	256.38	16.33 kgs	8	5/16	1/8, 1/4, 1/2
8"	150/300	4-1/16	4-5/8	9-1/32	13-15/32	53.4 lbs	8	3/8	1/8, 1/4, 1/2
200 mm	10/16	103.19	117.48	229.39	342.11	24.22 kgs	8	3/8	1/8, 1/4, 1/2
10"	150	4-3/4	5-21/32	11-5/32	16-11/16	99.8 lbs	12	3/8	1/8, 1/4, 1/2
250 mm	10/16	120.65	143.67	283.37	423.86	45.27 kgs	12	3/8	1/8, 1/4, 1/2
12"	150/300	5-1/16	6-17/32	13-5/32	19-25/32	136.00 lbs	12	1/4	1/8, 1/4, 1/2
300 mm	10/16	128.59	165.89	334.17	502.44	61.69 kgs	12	1/4	1/8, 1/4, 1/2

Notes:

* Holders are also available to fit JIS flanging. Contact ZOOK for details

◆ Minimum height specified in table above will maintain the pre-torque feature of the rupture disk holder

● Refer to ASME/ANSI B16.5 pipe flanges and flange fittings (Table 2) for max allowable pressure/temperature ratings per flange class

▲ Gauge tap size needs to be reviewed with factory for reduced 1" FAH-G holders

Options / Accessories

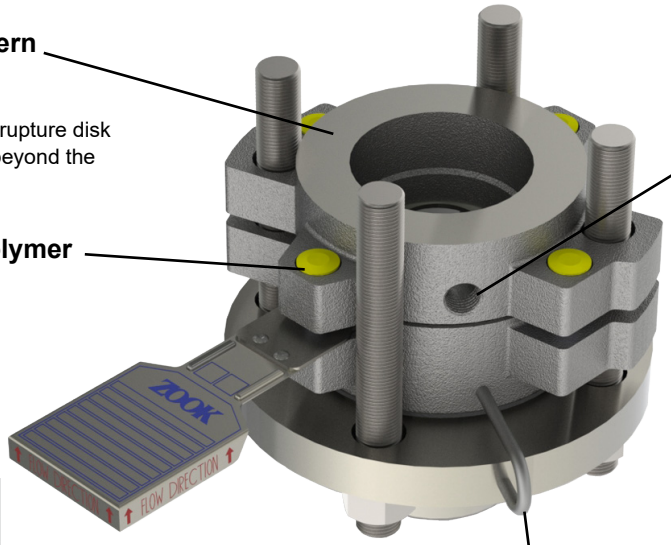
Short / Mid / Long Pattern

- Can be machined to meet existing piping specifications
- Mid / Long Pattern prevents rupture disk membrane from protruding beyond the outlet holder after burst

Replacement Fluoropolymer Coated Cap Screws

Cap Screw Specifications**	
Type	Socket Head
Material	Alloy Steel
Hardness	38-43-RC
Threads	UNRF 3A

** Required to meet Pre-Torque specifications



J-Hook

Eye Bolt

- To assist in lifting

Gauge Tap

- Used for monitoring pressure/temperature at rupture disk location
- Also available on inlet holder

PTFE Sleeved Holder Inlet

- Ideal for corrosive applications and reducing product build-up (Refer to PTFE Sleeved Holder Inlet Data Sheet)

Tantalum Coating

- Ideal for extreme corrosive applications and higher temperatures

Teflon - Trademark of The Chemours Company
Hastelloy - Trademark of Haynes International

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