

## PRESSURE ACTIVATION DEVICE (PAD-I)

### DESCRIPTION

The PAD-I comes in two standard models: A8170 and A9569 allowing for burst pressures up to 22,000 PSIG. PAD-I are designed for activation from within the tubing or drill string. PAD I standard models are constructed using a body, disc, and support ring providing a one-piece assembly. To provide the highest reliability and traceability, each unit is pressure tested prior to shipping and labeled with burst pressure, temperature and part number.

### TYPICAL USE

The PAD-I can be used in any application where high accuracy pressure activation is required:

- Downhole completion
- Perforating
- Cementing
- Drill stem testing
- Gravel Pack
- Stimulation
- Drilling
- Other special applications

### FEATURES AND BENEFITS

- Rapid Response Program
- Certified burst pressures with tight tolerance to ensure high accuracy and reliability
- Corrosion resistant materials
- Compact one-piece design
- High operating ratio
- Allows trouble free operation in corrosive environments
- Eliminates shear pin devices
- Easy installation and removal
- Positive sealing capability



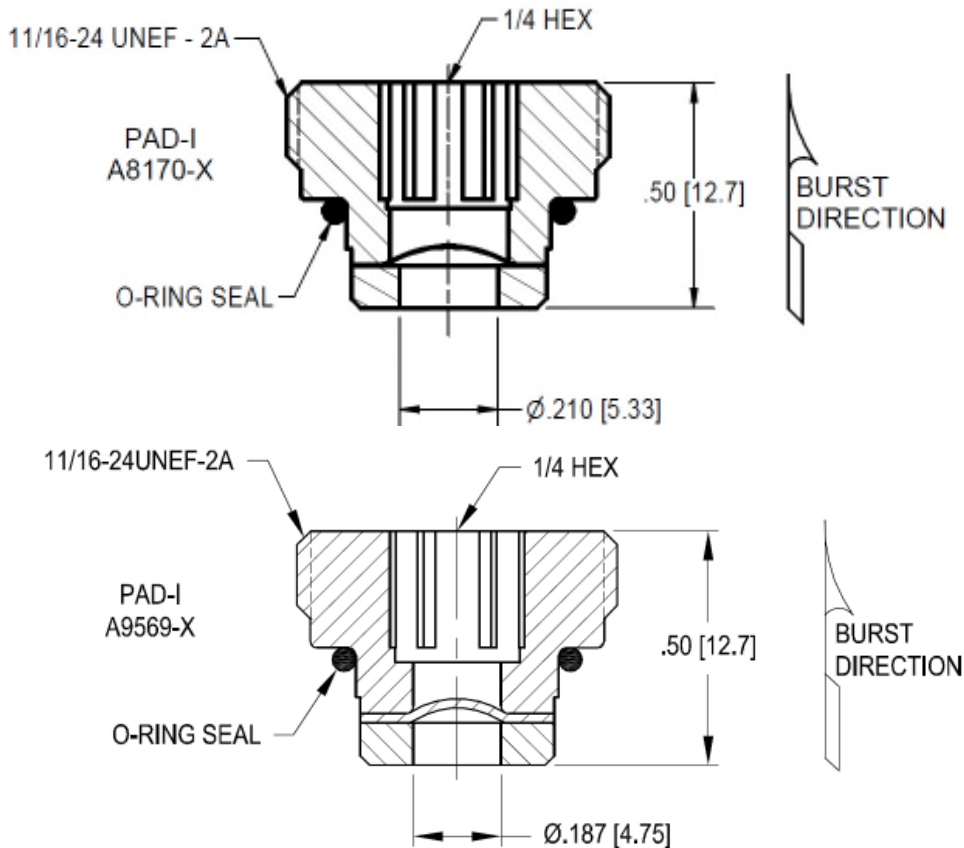
**PAD-I**



## SPECIFICATIONS

<b>Material of Construction</b>	A8170 Body - 316 SST, Rupture Disc - Inconel® 600 A9569 Body - 17-4 PH SST, Rupture Disc - Inconel® 600
<b>Maximum Operating Ratio</b>	90% of burst pressure
<b>Maximum Back Pressure</b>	Minimal – Consult Factory
<b>Standard Burst Pressure Range</b>	1,000-22,000 PSIG in 500 PSIG increments
<b>Burst Tolerance</b>	±100 PSIG for pressures 1,000 PSIG – 4,500 PSIG ±2% for pressures 5,000 PSIG and greater
<b>Threads</b>	11/16" - 24UNEF-2A
<b>Maximum Temperature</b>	Up to 450°F (232°C)

*Note: Other sizes, pressures, tolerances and materials, including Inconel 625, are available upon request.*





**BURST PRESSURE @ COINCIDENT TEMPERATURE (P/N A8170-X)**

Fike P/N	Specified BP Range @ Temp (PSIG)	Burst Pressure @ Temp (PSIG)							
		100°F (38°C)	150°F (66°C)	200°F (93°C)	250°F (121°C)	300°F (149°C)	350°F (177°C)	400°F (204°C)	450°F (232°C)
A8170-1	900 to 1100 @ 100°F	<b>1000</b>	973	951	931	916	904	896	892
A8170-2	1400 to 1600 @ 100°F	<b>1500</b>	1459	1426	1397	1374	1356	1344	1338
A8170-3	1900 to 2100 @ 100°F	<b>2000</b>	1946	1901	1862	1832	1808	1792	1784
A8170-4	2400 to 2600 @ 100°F	<b>2500</b>	2432	2376	2328	2289	2260	2240	2230
A8170-5	2900 to 3100 @ 100°F	<b>3000</b>	2918	2852	2793	2747	2712	2688	2676
A8170-6	3400 to 3600 @ 100°F	<b>3500</b>	3405	3327	3259	3205	3165	3136	3122
A8170-7	3900 to 4100 @ 100°F	<b>4000</b>	3891	3802	3724	3663	3617	3584	3568
A8170-8	4400 to 4600 @ 100°F	<b>4500</b>	4377	4278	4190	4121	4069	4032	4014
A8170-9	4900 to 5100 @ 150°F	5139	<b>5000</b>	4888	4789	4704	4647	4608	4587
A8170-10	5390 to 5610 @ 150°F	5653	<b>5500</b>	5376	5268	5174	5112	5069	5046
A8170-11	5880 to 6120 @ 150°F	6167	<b>6000</b>	5865	5747	5644	5576	5530	5505
A8170-12	6370 to 6630 @ 150°F	6680	<b>6500</b>	6354	6226	6115	6041	5991	5963
A8170-13	6860 to 7140 @ 200°F	7361	7165	<b>7000</b>	6856	6737	6660	6598	6573
A8170-14	7350 to 7650 @ 200°F	7886	7677	<b>7500</b>	7346	7218	7136	7069	7042
A8170-15	7840 to 8160 @ 200°F	8412	8188	<b>8000</b>	7835	7700	7612	7540	7512
A8170-16	8330 to 8670 @ 200°F	8938	8700	<b>8500</b>	8325	8181	8088	8011	7981
A8170-17	8820 to 9180 @ 200°F	9464	9212	<b>9000</b>	8815	8662	8563	8483	8451
A8170-18	9310 to 9690 @ 250°F	10193	9916	9694	<b>9500</b>	9332	9223	9143	9100
A8170-19	9800 to 10200 @ 250°F	10730	10438	10204	<b>10000</b>	9823	9709	9625	9579
A8170-20	10290 to 10710 @ 250°F	11266	10960	10714	<b>10500</b>	10314	10194	10106	10057
A8170-21	10780 to 11220 @ 250°F	11803	11482	11224	<b>11000</b>	10806	10680	10587	10536
A8170-22	11270 to 11730 @ 250°F	12339	12004	11735	<b>11500</b>	11297	11165	11068	11015
A8170-23	11760 to 12240 @ 300°F	13115	12752	12461	12208	<b>12000</b>	11858	11753	11696
A8170-24	12250 to 12750 @ 350°F	13827	13441	13144	12873	12652	<b>12500</b>	12389	12327
A8170-25	12740 to 13260 @ 350°F	14381	13978	13670	13388	13158	<b>13000</b>	12884	12821
A8170-26	13230 to 13770 @ 350°F	14934	14516	14196	13903	13664	<b>13500</b>	13380	13314
A8170-27	13270 to 14280 @ 350°F	15487	15054	14721	14418	14170	<b>14000</b>	13875	13807
A8170-28	14210 to 14790 @ 350°F	16040	15591	15247	14933	14676	<b>14500</b>	14371	14300

Note: Bold type indicates specified burst pressure; regular type indicates nominal burst pressure estimates for other temperatures

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**EXTENDED HI-PRESSURE PAD-I (P/N A9569-X)**

Fike P/N	Specified BP Range @ Temp (PSIG)	Burst Pressure @ Temp (PSIG)							
		100°F (38°C)	150°F (66°C)	200°F (93°C)	250°F (121°C)	300°F (149°C)	350°F (177°C)	400°F (204°C)	450°F (232°C)
A9569-1	14700 to 15300 @ 350°F	16593	16129	15773	15448	15182	<b>15000</b>	14866	14793
A9569-2	15190 to 15810 @ 350°F	17146	16667	16299	15963	15688	<b>15500</b>	15362	15286
A9569-3	15680 to 16320 @ 350°F	17699	17204	16824	16478	16194	<b>16000</b>	15857	15779
A9569-4	16170 to 16830 @ 350°F	18252	17742	17350	16993	16700	<b>16500</b>	16353	16272
A9569-5	16660 to 17340 @ 350°F	18805	18280	17876	17508	17206	<b>17000</b>	16848	16765
A9569-6	17150 to 17850 @ 350°F	19358	18817	18402	18023	17713	<b>17500</b>	17344	17258
A9569-7	17640 to 18360 @ 350°F	19912	19355	18927	18538	18219	<b>18000</b>	17839	17751
A9569-8	18130 to 18870 @ 350°F	20465	19892	19453	19053	18725	<b>18500</b>	18335	18245
A9569-9	18620 to 19380 @ 350°F	21018	20430	19979	19567	19231	<b>19000</b>	18831	18738
A9569-10	19110 to 19890 @ 350°F	21571	20968	20505	20082	19737	<b>19500</b>	19326	19231
A9569-11	19600 to 20400 @ 350°F	22124	21505	21030	20597	20243	<b>20000</b>	19822	19724
A9569-12	20090 to 20910 @ 350°F	22677	22043	21534	21091	20749	<b>20500</b>	20317	20217
A9569-13	20580 to 21420 @ 350°F	23230	22581	22059	21605	21255	<b>21000</b>	20813	20710
A9569-14	21070 to 21930 @ 350°F	23783	23118	22584	22119	21761	<b>21500</b>	21308	21203
A9569-15	21560 to 22440 @ 350°F	24336	23656	23109	22634	22267	<b>22000</b>	21804	21696

*Note: Bold type indicates specified burst pressure; regular type indicates nominal burst pressure estimates for other temperatures*

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