

PRESSURE ACTIVATION DEVICE (PAD-A)

DESCRIPTION

The PAD-A comes in two standard models: A8051 and A9754 allowing for burst pressures up to 20,000 PSIG. PAD-A are designed for activation from the annulus. PAD-A standard models are constructed by electron beam welding an Inconel® 600 rupture disc to a 316 SST body and support ring. This provides a one-piece rupture disc assembly for improved reliability, accuracy, and ruggedness. To provide the highest reliability and traceability, each unit is pressure tested prior to shipping and labeled with burst pressure, part number, and lot number.

TYPICAL USE

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

- Downhole completion
- Perforating
- Cementing
- Drill stem testing
- 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



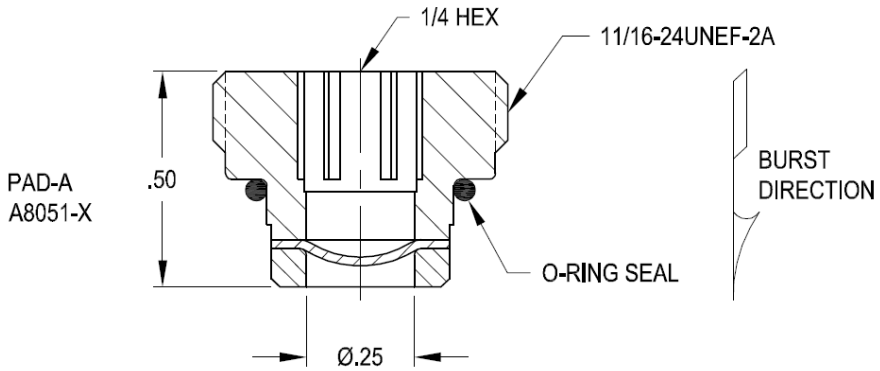
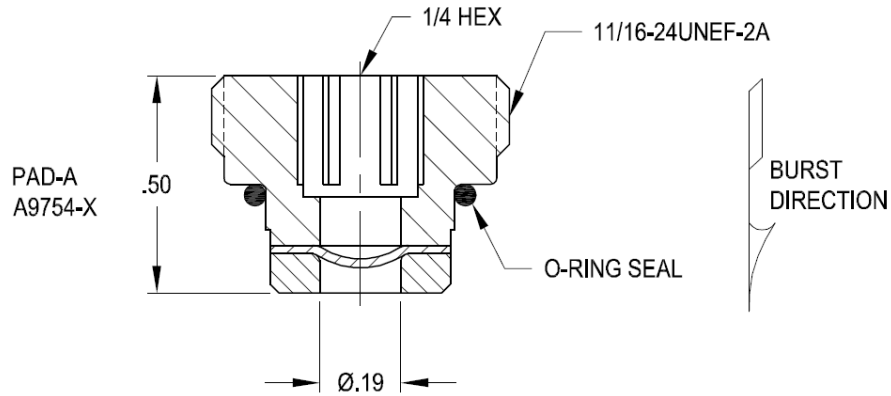
PAD-A



SPECIFICATIONS

Material of Construction	Body - 316 SST, Rupture Disc - Inconel® 600
Maximum Operating Ratio	90% of burst pressure
Maximum Back Pressure	Minimal - Consult Factory
Standard Burst Pressure Range	1,000-20,000 PSIG
Burst Tolerance	±100 PSIG for pressures 1,000 PSIG – 5,000 PSIG ±2% for pressures greater than 5,000 PSIG
Threads	11/16" - 24UNEF-2A
Maximum Temperature	Up to 450°F (232°C)

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



PAD-A



BURST PRESSURE @ COINCIDENT TEMPERATURE P/N A8051-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)
A8051-1	900 - 1100 @ 100°F	1000	973	951	931	916	904	896	892
A8051-36	1150 - 1350 @ 100°F	1250	1216	1188	1164	1145	1130	1120	1115
A8051-2	1400 - 1600 @ 100°F	1500	1459	1426	1397	1374	1356	1344	1338
A8051-37	1650 - 1850 @ 100°F	1750	1702	1664	1629	1603	1582	1568	1561
A8051-3	1900 - 2100 @ 100°F	2000	1946	1901	1862	1832	1808	1792	1784
A8051-38	2150 - 2350 @ 100°F	2250	2189	2139	2095	2060	2034	2016	2007
A8051-4	2400 - 2600 @ 100°F	2500	2432	2376	2328	2289	2260	2240	2230
A8051-39	2650 - 2850 @ 100°F	2750	2675	2614	2561	2518	2486	2464	2453
A8051-5	2900 - 3100 @ 100°F	3000	2918	2852	2793	2747	2712	2688	2676
A8051-40	3150 - 3350 @ 100°F	3250	3161	3089	3026	2976	2939	2912	2899
A8051-6	3400 - 3600 @ 100°F	3500	3405	3327	3259	3205	3165	3136	3122
A8051-41	3650 - 3850 @ 100°F	3750	3648	3565	3492	3434	3391	3360	3345
A8051-7	3900 - 4100 @ 100°F	4000	3891	3802	3724	3663	3617	3584	3568
A8051-42	4150 - 4350 @ 100°F	4250	4134	4040	3957	3892	3843	3808	3791
A8051-8	4400 - 4600 @ 100°F	4500	4377	4278	4190	4121	4069	4032	4014
A8051-43	4650 - 4850 @ 150°F	4882	4750	4643	4550	4468	4415	4378	4358
A8051-9	4900 - 5100 @ 150°F	5139	5000	4888	4789	4704	4647	4608	4587
A8051-44	5145 - 5355 @ 150°F	5396	5250	5132	5029	4939	4879	4839	4817
A8051-10	5390 - 5610 @ 150°F	5653	5500	5376	5268	5174	5112	5069	5046
A8051-45	5635 - 5865 @ 150°F	5910	5750	5621	5508	5409	5344	5300	5275
A8051-11	5880 - 6120 @ 150°F	6167	6000	5865	5747	5644	5576	5530	5505
A8051-46	6125 - 6375 @ 150°F	6423	6250	6109	5987	5880	5809	5760	5734
A8051-12	6370 - 6630 @ 150°F	6680	6500	6354	6226	6115	6041	5991	5963
A8051-47	6615 - 6885 @ 200°F	7098	6909	6750	6611	6497	6422	6362	6338
A8051-13	6860 - 7140 @ 200°F	7361	7165	7000	6856	6737	6660	6598	6573
A8051-48	7105 - 7395 @ 200°F	7624	7421	7250	7101	6978	6898	6833	6808
A8051-14	7350 - 7650 @ 200°F	7886	7677	7500	7346	7218	7136	7069	7042
A8051-49	7595 - 7905 @ 200°F	8149	7932	7750	7591	7459	7374	7304	7277
A8051-15	7840 - 8160 @ 200°F	8412	8188	8000	7835	7700	7612	7540	7512
A8051-50	8085 - 8415 @ 200°F	8675	8444	8250	8080	7940	7850	7776	7746
A8051-16	8330 - 8670 @ 200°F	8938	8700	8500	8325	8181	8088	8011	7981

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

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BURST PRESSURE @ COINCIDENT TEMPERATURE P/N A8051-X (Cont.)

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)
A8051-29	8575 - 8925 @ 200°F	9201	8956	8750	8570	8422	8325	8247	8216
A8051-17	8820 - 9180 @ 200°F	9464	9212	9000	8815	8662	8563	8483	8451
A8051-30	9065 - 9435 @ 200°F	9727	9468	9250	9060	8903	8801	8718	8685
A8051-18	9310 - 9690 @ 250°F	10193	9916	9694	9500	9332	9223	9143	9100
A8051-31	9555 - 9945 @ 200°F	10252	9980	9750	9549	9384	9277	9189	9155
A8051-19	9800 - 10200 @ 250°F	10730	10438	10204	10000	9823	9709	9625	9579
A8051-32	10045 - 10455 @ 200°F	10778	10491	10250	10039	9865	9753	9661	9624
A8051-20	10290 - 10710 @ 250°F	11266	10960	10714	10500	10314	10194	10106	10057
A8051-33	10535 - 10965 @ 200°F	11304	11003	10750	10529	10346	10228	10132	10094
A8051-21	10780 - 11220 @ 250°F	11803	11482	11224	11000	10806	10680	10587	10536
A8051-34	11025 - 11475 @ 200°F	11830	11515	11250	11019	10828	10704	10603	10563
A8051-22	11270 - 11730 @ 250°F	12339	12004	11735	11500	11297	11165	11068	11015
A8051-35	11515 - 11985 @ 200°F	12355	12027	11750	11508	11309	11180	11074	11033
A8051-23	11760 - 12240 @ 300°F	13115	12752	12461	12208	12000	11858	11753	11696
A8051-24	12250 - 12750 @ 450°F	14013	13631	13312	13048	12821	12665	12550	12500
A8051-25	12740 - 13260 @ 450°F	14574	14177	13845	13570	13333	13171	13052	13000
A8051-26	13230 - 13770 @ 350°F	14934	14516	14196	13903	13664	13500	13380	13314
A8051-27	13720 - 14280 @ 350°F	15487	15054	14721	14418	14170	14000	13875	13807
A8051-28	14210 - 14790 @ 350°F	16040	15591	15247	14933	14676	14500	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-A P/N A9754-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)
A9754-1	14700 to 15300 @ 350°F	16593	16129	15773	15448	15182	15000	14866	14793
A9754-2	15190 to 15810 @ 350°F	17146	16667	16299	15963	15688	15500	15362	15286
A9754-3	15680 to 16320 @ 350°F	17699	17204	16824	16478	16194	16000	15857	15779
A9754-4	16170 to 16830 @ 350°F	18252	17742	17350	16993	16700	16500	16353	16272
A9754-5	16660 to 17340 @ 350°F	18805	18280	17876	17508	17206	17000	16848	16765
A9754-6	17150 to 17850 @ 350°F	19358	18817	18402	18023	17713	17500	17344	17258
A9754-7	17640 to 18360 @ 350°F	19912	19355	18927	18538	18219	18000	17839	17751
A9754-8	18130 to 18870 @ 350°F	20465	19892	19453	19053	18725	18500	18335	18245
A9754-9	18620 to 19380 @ 350°F	21018	20430	19979	19567	19231	19000	18831	18738
A9754-10	19110 to 19890 @ 350°F	21571	20968	20505	20082	19737	19500	19326	19231
A9754-11	19600 to 20400 @ 350°F	22124	21505	21030	20597	20243	20000	19822	19724

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