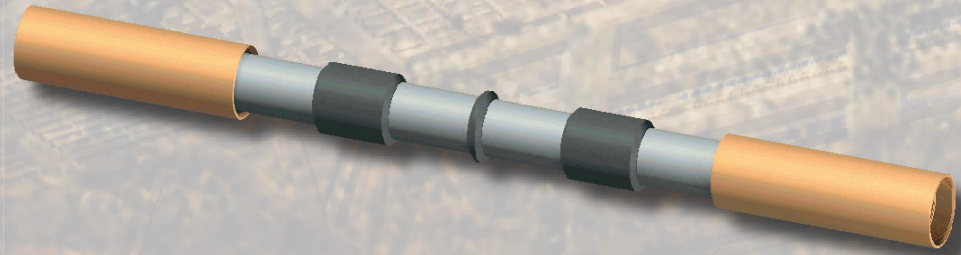


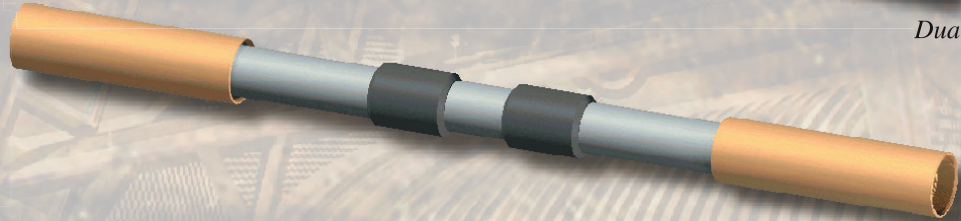
# ISAP ELEMENTS

## Inflatable Straddle Acidizing Packer (ISAP)

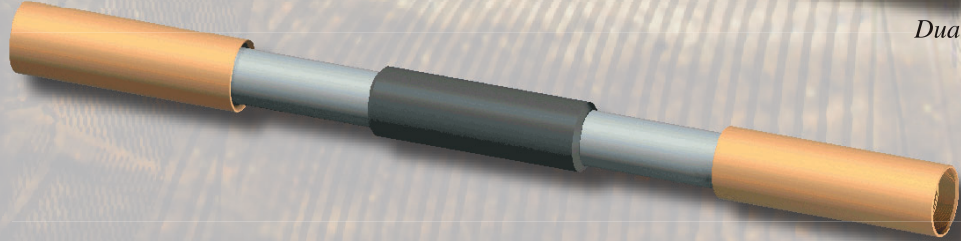
### Quick Reference Guide



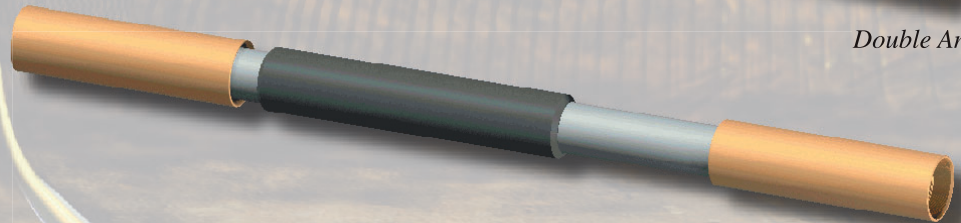
Dual Seal



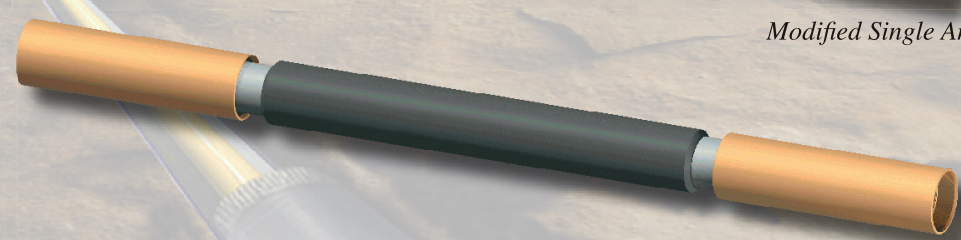
Dual Seal



Double Anchor



Modified Single Anchor



Modified Full Cover

Element Type	Setting Environment					Differential Pressure Conditions	
	Open Hole	Cased Hole	Screens	Slotted Liner	Perforations	Pressure From Above	Pressure From Below
Dual Seal	x*	x	x	x	x	x	x
Double Anchor	x*	x	x	x	x	x	x
Mod Single Anchor (Up)	x	x	x	x	x		x
Mod Single Anchor (Down)	x	x	x	x	x	x	
Modified Full Cover	x		x	x	x	x	x

\*Openhole condition dependant.

Element OD	Size the element is to be set in													
	Inches (in.) (mm)													
	OD	2.375	2.875	3.500	4.000	4.500	5.000	5.500	6.625	7.000	7.625	8.625	9.625	
ID	2.041 (51.8)	2.441 (62.0)	3.068 (77.9)	3.548 (90.1)	4.090 (103.9)	4.560 (115.8)	5.012 (115.8)	5.012 (115.8)	6.049 (153.6)	6.538 (166.1)	7.025 (178.4)	8.097 (205.7)	9.001 (228.6)	
Inches (mm)	Type	Max Differential Pressure - {psi/bar}												
		Max Temperature - [F/C]												
1.69 (42.9)	Standard	5500 (379.2)	5500 (379.2)	4300 (296.5)	3200 (220.6)	2400 (165.5)	1900 (131.0)	1600 (110.3)						
		300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	250 (121.1)	250 (121.1)					
1.69 (42.9)	Acid	5000 (344.7)	5000 (344.7)	3800 (262)	2800 (193.1)	2150 (148.2)	1700 (117.2)	1450 (100.0)						
		300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	250 (121.1)	250 (121.1)					
2.13 (54.1)	Standard		6000 (413.7)	6000 (413.7)	5500 (379.2)	4000 (275.8)	3100 (213.8)	2400 (165.5)	1500 (103.4)	1200 (82.7)	800 (55.2)			
			300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)	280 (137.7)	280 (137.7)		
2.13 (54.1)	Acid		6000 (413.7)	6000 (413.7)	4500 (310.3)	3300 (227.5)	2500 (172.4)	2000 (137.9)						
			300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)					
2.50 (63.5)	Standard			6500 (448.2)	6500 (448.2)	5900 (406.8)	4800 (331.0)	4000 (275.8)	2400 (165.5)	1850 (127.6)	1700 (117.2)			
				300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)	280 (137.7)		
2.50 (63.5)	Acid			6500 (448.2)	6500 (448.2)	5310 (242.0)	4320 (297.9)	3600 (248.2)	2150 (148.2)	1650 (113.8)	1500 (103.4)			
				300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)	280 (137.7)		
3.00 (76.2)	Standard				8000 (551.6)	8000 (551.6)	8000 (551.7)	7700 (530.9)	4600 (317.2)	3700 (255.1)	3000 (206.8)			
					300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)		
3.00 (76.2)	Acid				6500 (448.2)	6500 (448.2)	6500 (448.3)	5700 (393.0)	3800 (262.0)	3200 (220.6)	2750 (189.6)			
					300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)		
3.38 (85.9)	Standard					8500 (586.0)	8500 (586.2)	8500 (586.0)	6200 (427.5)	5250 (362.0)	4450 (306.8)	3000 (206.8)		
						300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)		
3.38 (85.9)	Acid					6500 (448.2)	6500 (448.3)	6500 (448.2)	4750 (327.5)	3950 (272.3)	3300 (227.5)	2400 (165.5)		
						300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)		
4.25 (108.0)	Acid								7500 (517.1)	7500 (517.1)	5400 (372.2)	3600 (248.2)	2600 (179.3)	1850 (127.6)
									300 (148.9)	300 (148.9)	300 (148.9)	300 (148.9)	280 (137.7)	280 (137.7)

Size Inches (in.)	Type	Dual Seal	Double Anchor	Single Anchor	Modified Single Anchor	Modified Full Cover
1.69 (42.9)	Standard	H047652803		H047652903		H047653203
	Acid					H047807503
2.13 (54.1)	Standard		H047605503	H048043803		H047605803
	Acid				H047027003	H046986803
2.50 (63.5)	Standard		H047606803			H047606903
	Acid					H046732103
3.00 (76.2)	Standard		H047676703			H047676603
	Acid		H046866003		H046712703	H046719103
3.38 (85.9)	Standard		H047676903	H048010303		H047676803
	Acid	H047929403	H047836403		H046719503	H046719303
4.25 (108.0)	Standard					
	Acid	H047975412				



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