

Model P Casing Patch

Liner Hangers & Accessories

The Model P Casing Patch is a permanent steel-on-steel seal internal patch that is ideal for covering or repairing splits, holes, or perforations in casing. The Model P Casing Patch can be run on tubing and hydraulically set, or tubing conveyed. It can also be run and set on wireline. The large bore is good for running tools through and does not hinder fluid flow. The Casing Patch is sealed off at the top and bottom and patch pipe in between. This allows for various lengths easily changed. Long patches or short 3m patches can be run.

The casing should be properly prepared prior to running the Casing Patch. Setting process for the Casing Patch is done by applying fluid pressure down the tubing to a hydraulic tool. The hydraulic tool exerts a pushing force on the top patch end and pull force on the bottom seal end which causes the soft steel patch ends to expand against the casing wall and conform to the I.D. of the casing wall. The tool shears and releases the latch collet. At this point the cased well bore can be tested.

Retrieving the Casing Patch can be done with a small amount of milling and jarring.



Model P Casing Patch			
Description	Properties	Rockwell Hardness	Tensile Strength
Pin Element	1026 Annealed Steel	B-70	101,000 psi
Box Element	1026 Annealed Steel	B-70	71,000 psi
Patch Swage End – Bottom	304 Stainless Steel Annealed	B-80	81,000 psi
Patch Swage End – Top	304 Stainless Steel Annealed	B-80	81,000 psi
Patch 10-Foot Extension	DOM-1026 Steel	B-94	101,000 psi

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Casing				Product Number	Patch							
O.D.		Weight			Running Diameters				Pressure Rating			
					O.D.		I.D.		Burst		Collapse	
in	mm	lb/ft	kg/m		in	mm	in	mm	psi	Mpa	psi	Mpa
4-1/2	114.3	9.5 - 10.5	14.0 - 15.5	20-075-4510	3.880	98.6	3.375	85.7	4,000	27.6	4,990	33.4
		11.6	17.1	20-074-4511	3.845	97.7						
5-1/2	139.7	13	19.2	20-075-5513	4.862	123.5	4.250	107.9	3,870	26.7	4,840	33.4
		14 - 15.5	20.8 - 23.1	20-075-5515	4.795	121.8						
		17	25.3	20-075-5517	4.700	119.4	4.000	101.6	4,080	28.2	5,130	35.4
		20	29.8	20-075-5520	4.605	117.0						
		23	34.2	20-075-5523	4.525	114.9						
7	177.8	17	25.3	20-075-7017	6.360	161.5	5.750	146.0	2,940	20.3	3,680	25.4
		20	29.7	20-075-7020	6.286	159.6						
		23	34.2	20-075-7023	6.165	156.6	5.500	139.7	3,060	21.1	3,830	26.4
		26	38.7	20-075-7026	6.115	155.3						
		29	43.2	20-075-7029	6.033	153.2						
		32	47.6	20-075-7032	5.930	150.6	5.250	133.4	3,200	22.1	3,990	27.5