

TYPE A PACKER TYPE TUBING PATCHES

Overview

This Logan Type A Packer Type Tubing Patch is used to repair a section of damaged tubing without having to remove the entire string from the hole to replace it. This external catch tool is designed to engage a previously prepared fish, pack it off, and become a permanent part of the tubing string. Positive engagement and seal-off in either direction provides a permanent, rigid connection that will remain leakproof for years, yet is easily removable if the need arises.

The Logan Type A Packer Type Tubing Patches will not restrict the bore of the tubing and are available in popular tubing sizes from 2-3/8 through 3-1/2 inches O.D.

Construction

The simple design of the Logan Type A Packer Type Tubing Patch is composed of five outside parts and four internal parts. The simple design of the Logan Type A Packer Type Tubing Patch matches its simple operation.

Operation

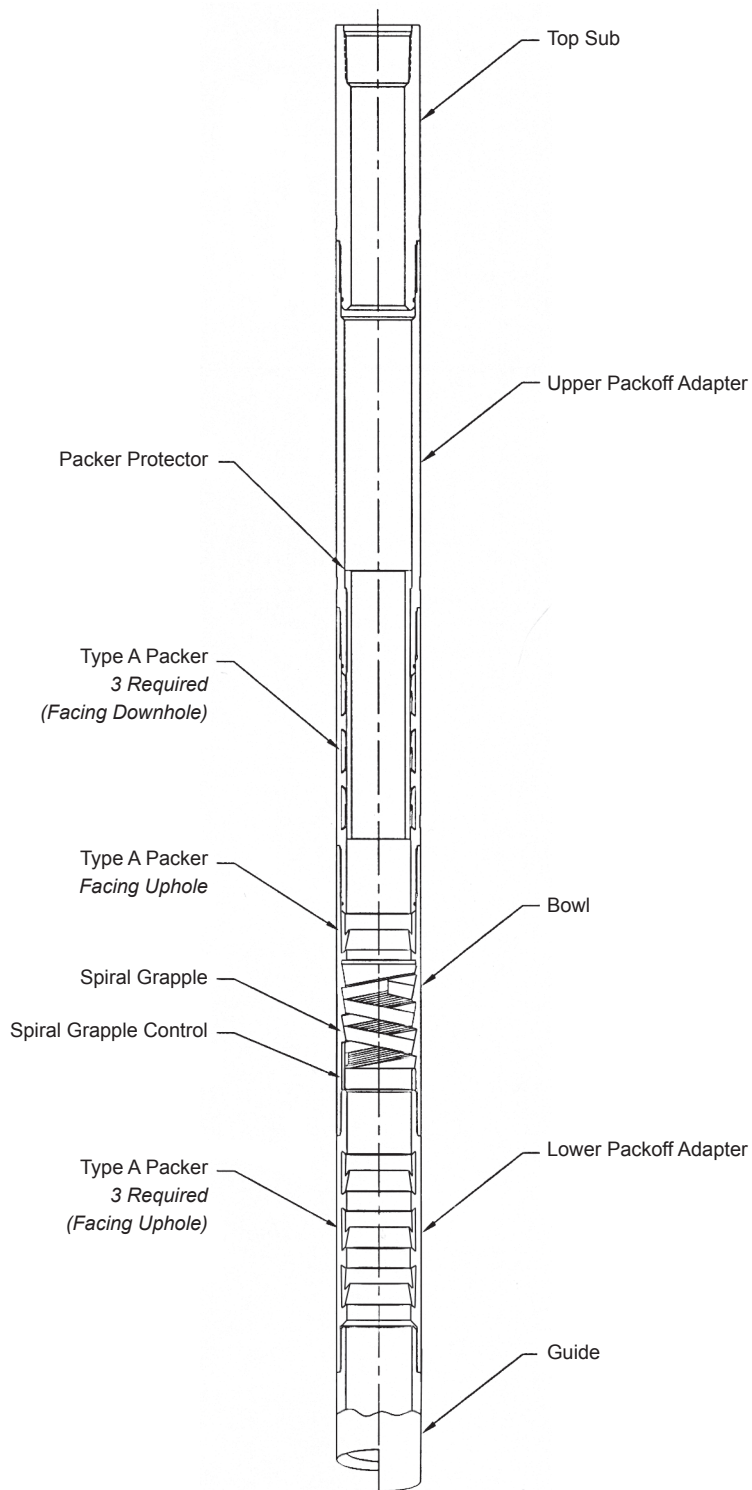
Prepare the upper end of the fish prior to running the Tubing Patch. Lower the tool into the hole until the depth of the fish is reached. Rotate the running string slowly to the right as it is slowly lowered. Combined slow rotation and lowering is important to the proper operation of the tool and should be continued until the fish has entered the tool. Watch the rig weight indicator to determine when the tool has reached the lower end of the top sub. Complete engagement can be assured by allowing the Tubing Patch to support 10,000 to 15,000 lbs. of weight. Pick up the running string to remove the weight from the Tubing Patch while letting the torque slacken from the running string.

If it becomes necessary to remove the tubing patch, bump down to release the grapple and slowly raise the string while rotating to the right. Continue rotation until the patch has cleared the tubing and lift from hole.

Ordinary corrosion does not affect the Tubing Patch and it may be released years after its initial setting. However, if the Tubing Patch has been cemented in place and cement has invaded the internal working parts, the patch may not release. In such cases, the patch can be milled away or by cutting the string below the patch for removal.

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Size and weight of tubing



TYPE A PACKER TYPE TUBING PATCHES

O.D. TUBING		2-3/8	2-7/8	3-1/2			
O.D. PATCH		3-1/8	3-5/8	4-11/16			
COMPLETE ASSEMBLY	Logan Part No.	503-002	503-003	503-004			
	Bowen No.			
TOP SUB	Logan Part No.	Z1002	Z1003	Z10035			
	Bowen No.	...	36295	...			
TOP SUB SEAL	Logan Part No.	568-143	568-233	568241			
	Bowen No.	568143	568233	568241			
BOWL	Logan Part No.	Z2002	Z2003	Z20035			
	Bowen No.	...	36827	...			
BOWL SEAL	Logan Part No.	568-146	568-235	568-241			
	Bowen No.	568146	568235	568241			
	No. Req'd	2	1	1			
PACKER PROTECTOR	Logan Part No.	Z3002	Z3003	Z30035			
	Bowen No.	...	36296	...			
PACKER	Logan Part No.	A4001	A4005	A4019			
	Bowen No.	9309	8550	...			
	No. Req'd	7	7	7			
GRAPPLE	Logan Part No.	A5001	A5005	A5019			
	Bowen No.	9307	9272	6662			
GRAPPLE CONTROL	Logan Part No.	A6001	A6005	A6019			
	Bowen No.	9308	9273	6674			
GUIDE	Logan Part No.	A3001	A3005	A3019			
	Bowen No.	9312	9275	6667			
UPPER PACK-OFF ADAPTER	Logan Part No.	Z9002	Z9003	Z90035			
	Bowen No.	...	36297	...			
LOWER PACK-OFF ADAPTER	Logan Part No.	Z10002	Z10003	Z100035			
	Bowen No.	...	36298	...			
PACK-OFF ADAPTER EXTENSION	Logan Part No.	Z11002	...	Z110035			
	Bowen No.			

Logan Oil Tools reserves the right to change or discontinue designs without notice.

Note: H₂S casing patches available upon request.

When ordering, please specify:

- (1) Complete assembly or part number
- (2) Size and type of connection