



4102 Highway 90 West, New Iberia LA 70560
 Phone: (337)-606-0031 ♦ E-Mail: tts@thrutubingsystems.com

Wireline Products

Series 7850 - ACE Thru Tubing Umbrella Plug

TTS introduces the Positively Deployed **ACE** Thru Tubing Umbrella Plug designed to pass through small restrictions and set in a larger ID tubular below. The **ACE** Thru Tubing Umbrella Plug firmly anchors into place a “metal petal” umbrella that functions as a cement basket to be utilized as a base for subsequent placement (dumping) of bridging material, cement, or resin. The unique setting mechanism positively deploys the bottom slips 12” below the end of the running sleeve.

The TTS **ACE** Thru Tubing Umbrella Plug offers multiple features that improve reliability. Slip segments have been designed to hold 1600# each to improve setting and holding ability. A tool barrier is installed above the basket to prevent accidental damage due to wireline tool string contact. A second inverted basket directs any migrating fluids into the thru vent system.

Features/Benefits

- ♦ Positive Deployment of the **ACE** Thru Tubing Umbrella Plug from running sleeve to wellbore. The plug is mechanically pushed out of the running sleeve to overcome frictional forces caused by metal petals, BSC, and well fluid.
- ♦ Wireline Tool Barrier prevents accidental damage to basket during operations.
- ♦ Double basket supports cement column and diverts migrating fluid to vent.
- ♦ The **ACE** Thru Tubing Umbrella Plug uses overlapping spring steel petals to form a cone opening to the casing ID and provide a strong base to start the plugback operation. Metal petals are stronger than other cloth and Kevlar baskets and also provide resistance to damage by corrosive wellbore fluids.
- ♦ Case Hardened Slips assure placement in casing grades up to **Q-125**. Slip segments are set for specific setting range and will not set in outside specified range
- ♦ A pressure balanced sliding sleeve vent valve maintains equalization across plug until it is closed, which is easily accomplished using wireline.
- ♦ Plugs for casing up to 7-5/8” are made “with shot”, a tube that contains a small amount of bridging material which deploys into the basket when set.
- ♦ Each plug is manufactured to accept the addition of a TTS Bow Spring Centralizer to assist entry of the running assembly into liner tops.
- ♦ Stocked for all API casing sizes (4-1/2” thru 9-5/8”). Special tubing, casing, and openhole sizes or Corrosive service (H₂S, CO₂) models available on request.
- ♦ Standard tool running diameter is 1.63” for 7-5/8” and smaller casing; 2” for 8-5/8” and larger casing; standard length is 13’ for vented, 6’ 6” for non-vented (7’6” for 8-5/8” and larger)
- ♦ Plugs with custom features (e.g., length, slip range, etc.) available on order.



Tool Series	Description
7850	Vented, Dual Basket
7804	Straddle
7805	Non-vented

Thru-Tubing Systems, Inc. products and services are subject to standard terms and conditions. Unless noted otherwise, trademarks and service marks noted herein are the property of Thru-Tubing Systems, Inc. © 2013. Thru-Tubing Systems, Inc. All rights reserved.

In some International areas TTS products are available through authorized service providers.



4102 Highway 90 West, New Iberia LA 70560

Phone: (337)-606-0031 ♦ E-Mail: tts@thrutubingsystems.com

Thru-Tubing Systems

Wireline Products

Series 7850 Vented ACE Thru Tubing Plugs				
Part Number	Pipe Size (in)	WS – With Shot	Running Length (ft)	Running OD (in)
7850-163-450	4" / 4-1/2"	Y	13'	1.63"
7850-163-550	5" / 5-1/2"	Y	13'	1.63"
7850-163-663	6-5/8"	Y	13'	1.63"
7850-163-700	7"	Y	13'	1.63"
7850-163-763	7-5/8"	Y	13'	1.63"
7850-200-963	9-5/8"	N	13'	2"

Series 7805 NON-Vented ACE Thru Tubing Plugs				
Part Number	Pipe Size (in)	WS – With Shot	Running Length (ft)	Running OD (in)
7805-163-450	4" / 4-1/2"	N	6'6"	1.63"
7805-163-550	5" / 5-1/2"	N	6'6"	1.63"
7805-163-663	6-5/8"	N	6'6"	1.63"
7805-163-700	7"	N	6'6"	1.63"
7805-163-763	7-5/8"	N	6'6"	1.63"
7805-200-963	9-5/8"	N	7'6"	2"

These specifications are for standard service, standard dimension plugs available in stock or next day delivery. Customer specified features, lengths, etc. can be accommodated given manufacturing time.

Export plugs are shipped in as an assembly in the setting sleeve ready to run; this is designated by an "EX" at the end of the part number.

Thru-Tubing Systems, Inc. products and services are subject to standard terms and conditions. Unless noted otherwise, trademarks and service marks noted herein are the property of Thru-Tubing Systems, Inc. © 2013. Thru-Tubing Systems, Inc. All rights reserved.

In some International areas TTS products are available through authorized service providers.