

## SEQUENCING TOOL – FLOW ACTIVATED



### TOOL APPLICATIONS

The Flow Activated Sequencing Tool is used to permit increased flow rate and annular velocity to improve hole cleaning. TTTT offer Sequencing Tool in both single and multiple activation.

As flow rate is increased, the **Single Activation** tool switches from forward facing, milling or jetting mode to a low pressure rearward facing jet assembly. This allows increased flow rate and annular velocity to improve hole cleaning ability, reduce clean out times and reduce the risk of solids build up in deviated sections behind the BHA. As Flow Rate is reduced circulation switches back to forward facing to allow jetting or Milling to continue.

Each time a high flow rate followed by a low flow rate sequence is carried out, the **Multi Activation** tool alternates between circulating modes and remains in that position until the next cycle is performed. It does not require a constant high flow rate in order to remain in either position, making it the ideal tool for a variety of applications.

### FEATURES AND BENEFITS

- Flow or pressure activated
- Single Activation tool can be set to circulate to both the tools below and annulus simultaneously
- Available in a range of sizes to suit industry standard Coiled Tubing BHA's
- Suitable for high temperature environments
- Compact design ideal for restricted height applications
- Torque-thru capability
- Simple, robust design ensuring ease of operation for the end user
- Hexagonal flats for safe make-up & break-out
- Corrosion resistant materials

### SPECIFICATIONS

Technical Variable		Units	Size					
			1 1/16"		2 1/8"		2 3/8"	
			Single	Multi	Single	Multi	Single	Multi
Max OD		in	1.687	1.687	2.125	2.125	2.875	2.875
Min ID		in	0.380	0.375	0.500	0.500	0.875	0.750
Connection	Top	pox	1" AMMT		1 1/2" AMMT		2 3/8" PAC DSI	
	Bottom	pin	1" AMMT		1 1/2" AMMT		2 3/8" PAC DSI	
Make Up Length		in	16.77	21.37	17.25	26.05	24.20	30.27
Weight		lbs	8.77	10.98	14.13	21.30	31.87	45.94
Activation Pressure		psi	244	115	156	200	141	200
Working Pressure		psi	10,000	5,000	10,000	5,000	10,000	5,000
Strength	SWL	lbs	64,928	51,820	91,590	86,576	166,568	161,038
	Yield	lbs	72,142	57,580	101,767	96,195	185,075	178,931
	UTS	lbs	77,691	70,660	130,843	118,057	227,138	219,597
	Torsional	ft.lbs	701	640	1,396	1,329	3,741	3,318
Make Up Torque		ft.lbs	458	458	831	871	2,979	2,200

Refer to manufacturing manual for nozzle sizes, flow rates and further information.