



# Delta STS™ SHUNT TUBE SYSTEM (STS-CH) FOR CASED-HOLE APPLICATIONS

### FEATURES:

- Low-Rate Pac System (LRPS) can be configured with Packing Tubes for low-rate gravel packing jobs or High-Rate System (HRFS) with Fracking Tubes for high-rate fracking jobs.
- The tubes can be placed eccentrically on the screen to minimize the OD of the product or concentrically to maximize the flow area for slurry transportation.
- Time threads ensure Packing/Fracking Tube alignment when screens are made up.
- Jumper Tubes are held in the locked position by a Snap Clip, eliminating the need for set screws.

### BENEFITS:

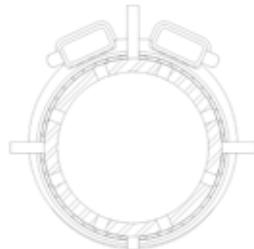
- Use of STS can increase the prospect of a void-free pack when a proppant bridge occurs in the annulus.
- Use of multiple tubes creates redundancy in the STS. Flow through each tube is independent of the other so packing can continue if one tube is plugged or damaged.
- Fracking can continue below a proppant bridge with the use of HRFS, ensuring adequate stimulation of the zone of interest.
- The STS can be installed on any of Delta's screen products.

Cased Hole Shunt Tube System (STS) with DeltaDirect Screen									
Pipe Size (in./mm)	Screen OD (in./mm)	1LRPS (in./mm)	1HRFS (in./mm)	2LRPS (in./mm)	2HRFS (in./mm)	3LRPS (in./mm)	3HRFS (in./mm)	4LRPS (in./mm)	4HRFS (in./mm)
2.375	2.910	3.813	4.138	3.987	3.987				
60.33	73.91	96.85	105.11	101.27	101.27				
2.875	3.410	4.306	4.625	4.427	4.427				
73.03	86.61	109.37	117.48	112.45	112.45				
3.500	4.050	4.938	5.252	5.050	5.050	5.650	6.260	5.650	6.260
88.90	102.87	125.43	133.40	128.27	128.27	143.51	159.00	143.51	159.00
4.000	4.550	5.434	5.743	5.539	5.539	6.150	6.750	6.150	6.750
101.6	115.57	138.02	145.87	140.69	140.69	156.21	171.45	156.21	171.45
4.500	5.060	5.940	6.246	5.997	5.997	6.650	7.250	6.650	7.250
114.30	128.52	150.88	158.46	152.32	152.32	168.91	184.15	168.91	184.15
5.000	5.560	6.437	6.740	6.486	6.486	7.150	7.740	7.150	7.740
127.00	141.22	163.5	171.20	164.74	164.74	181.61	196.60	181.61	196.60
5.500	6.070	6.944	7.245	6.985	6.985	7.650	8.240	7.650	8.240
139.70	154.18	176.38	184.02	177.42	177.42	194.31	209.30	194.31	209.30
6.625	7.200	8.069	8.366	8.107	8.107	8.770	9.360	8.770	9.360
168.30	182.88	204.95	212.5	205.92	205.92	222.76	237.74	222.76	237.74
7.000	7.580	8.448	8.744	8.485	8.485	9.150	9.740	9.150	9.740
177.80	192.53	214.58	222.10	215.52	215.52	232.41	247.40	232.41	247.40

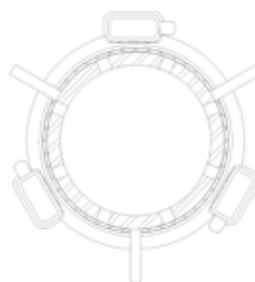
1 LRPS/1 HRFS



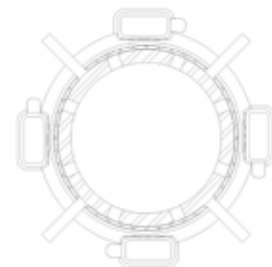
2 LRPS/2 HRFS



3 LRPS/3 HRFS



4 LRPS/4 HRFS



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