



## Flow Conditioners & 19 Tube Bundles

Flow Conditioners and 19 Tube bundles are inserted upstream of the primary metering element to condition the flow characteristics and by doing so enable a shortening of the minimum upstream length requirements.

Flow Conditioners eliminate swirl and create a symmetrical flow profile which increases the accuracy of measurement at the primary element. Flow conditioners are used with ultrasonic meters, turbine meters, coriolis and orifice plates where the highest possible accuracy of measurement is required.

19 Tube bundles by nature of their design only eliminate swirl within the pipe though these are still a popular method of flow conditioning.

STFC-02

### FEATURES

- TYPE - 'P' is designated for plate types and '19' for the 19 tube bundle variant
- SEALING FACING: Flat Face 'FF', Raised Face 'RF', Ring Type Joint,
- Materials: High Temp and Low Temp Carbon Steel, Stainless Steel 316, Duplex, Super Duplex, Monel, Inconel
- SIZES: 2" to 24" – other sizes available upon request
- ANSI CLASS: 150-2500 ANSI and 10,000 PSI
- Manufactured in accordance with international measurement codes ISO 5167 and AGA3
- Options: Special coatings, please state with inquiry

### ORDERING INFORMATION

Part number format for ordering is as follows; SIZE-ANSI-SCH-FACING-TYPE-MTL

Size	2" - 24" (other sizes available upon request)
SCH	Pipe schedule or custom ID
ANSI	150 - 2500 & up to 10,000 PSI
Flange Facings	<b>RF</b> = Raised Face <b>RTJ</b> = Ring Joint <b>BX</b> = API Groove <b>C</b> = Customer specific
Type	<b>Z</b> = Zanker Flow Conditioning Plate <b>S</b> = Sprengle Flow Conditioner Plate <b>K</b> = K-LabNova Flow Conditioning Plate <b>N</b> = NEL Spearman Flow Conditioner Plate <b>G</b> = GallagherFlow Conditioner <b>19</b> = 19 Tube Bundle
MATERIAL	<b>WC</b> = High Temp C. Steel <b>LC</b> = Low Temp C. Steel <b>316</b> = Stainless Steel <b>D</b> = Duplex <b>SD</b> = Super Duplex <b>M</b> = Monel

### WORKED EXAMPLE

STFC-B-6-300-40-RF-19-316	6" 300# Sch.40 RF 19 Tube Bundle in 316 St. Steel
STFC-P-2-1500-160-RTJ-ZP-D	2" 1500# Sch.160 RTJ Zanker Flow Conditioner in Duplex