

# System20

## Features & Benefits

Covering a wide range of flow rates, fluid types and applications, Parker's System 20 sensors are designed to be used with System 20 electronic or analog monitors, icountLCM, icountPD and the. Specially developed System20 sensors are available for use with phosphate ester fluids (EPDM Seals).

- System20 monitors, combined with the inline sensor, give the user accurate and instant readings of flow, pressure and temperature without the need for costly system downtime.
- For use with all mineral oils, water and water/oil emulsions.

### Analog Monitor (STM)

- Utilizes 3 Day-Glo dial gauges with a protective hinged cover.
- Calibrated up to 100 gpm with dual scale PSI/bar & °F/°C. (USGPM also available)

### Electronic Monitor (EM20)

- Gives a full digital display.
- Automatically calibrated for all 3 sizes of sensor.
- Indicates line, differential and rising peak pressure.
- Easily scrolled from metric to US.
- 300 test memory.
- Capable of downloading saved data to download software.

### Typical Applications

- Drilling equipment
- Mining
- Grinding and conveying
- Industrial hydraulics
- Mobile applications

Hydraulic system users need to ensure that lost production is kept to the absolute minimum. To ensure this, predictive maintenance utilizing routine condition monitoring of hydraulic systems is essential.



Industrial STI family



2 sizes of System20 Inline Mobile Sensors are available

# System20

## Specifications: Sensors

### Construction:

Industrial: (STI)

Body: 303 SS

Internal components: SS and Brass

Mobile: (STS)

Body: 303 SS

Internal components: Cast Aluminium and SS

### Flow Capacities:

All suitable for use with oil, water and oil/water emulsion

Size 0: 0.5-7 GPM (6-25 l/min)

Size 1: 5-26 GPM (20-100 l/min)

Size 2: 21-100 GPM (80-380 l/min)

### Max. Working Pressure:

6,000 PSI (420 bar)

### Capability:

Reverse flow (STI only)

### Pressure Drop:

At max. rated flow,  $\Delta p$  is 16 psi (1.1 bar), mineral oil fluid at 30 cSt 140 SSU

### Ports:

Size 0: SAE-6, G6

Size 1: SAE-12, G12

Size 2: SAE-20, G20

### Repeatability:

$\pm 1\%$  FSD

### Accuracy:

Flow  $\pm 2.5\%$  full scale deflection\*

### Weight:

Size 0: 1.2 lbs. (0.5kg)

Size 1: 8.4 lbs. (3.5kg)

Size 2: 9 lbs. (4.4kg)

### Aggressive Fluid Applications:

EPDM internal/external seals



Dimensions inches (mm)

	Size	Model	AØ	B	C
Industrial	0	STI	1.18 (30)	3.74 (95)	2.20 (56)
	1	STI	1.61 (41)	5.39 (137)	2.62 (66.5)
	2	STI	2.63 (66.7)	9.11 (231.3)	2.89 (73.5)
Mobile	1	STS	1.61 (41)	4.13 (105)	3.11 (79)
	2	STS	2.36 (60)	6.5 (165)	3.82 (97)

## Ordering Information

### Standard products table

Part Number	Size	Flow Range (GPM)	Fluid Type	Port	Reverse Flow Capability
<b>S.850001</b>	0	.5-7	Mineral	SAE-6	Yes
<b>STI.1344.100</b>	1	5-26	Mineral	SAE-12	Yes
<b>STI.2344.100</b>	2	21-100	Mineral	SAE-20	Yes
<b>STI.0144.100</b>	0	.5-7	Mineral	G6	Yes
<b>STI.1144.100</b>	1	5-26	Mineral	G12	Yes
<b>STI.2144.100</b>	2	21-100	Mineral	G20	Yes
<b>STI.1348.100</b>	1	5-26	Aggressive	SAE-12	Yes
<b>STI.2348.100</b>	2	21-100	Aggressive	SAE-20	Yes
<b>STS.5117.210</b>	1	5-26	Mineral	SAE-12	No
<b>STS.5217.210</b>	2	21-100	Mineral	SAE-20	No

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Note 3: Mobile Sensors are also available - Contact Parker

Note 4: \*Accuracy 5.5% > 25 gpm. (Applies to STI1144100 and STI1148100 only)