



# PREAMPLIFIER VSI



For precise and accurate flow and volume measurements with a resolution as high as possible, VSE has developed the optional VSI preamplifier. The integrated electronics of the VSI produces greatly improved signal quality with harmonic pulse widths. This means that more consistent and vibration-free measurements can be achieved. In addition, the interpolation factor has been increased by two IPF factors (24 and 32). The replaceable system means that existing systems can be easily upgraded or expanded and standardised. An integrated embedded system permits greater flexibility, meaning that individual custom solutions can also be realised.

## OPERATING CONDITIONS

### FLOW RANGE

0.002 up to 525 l/min

### TEMPERATURE

-40°C up to +120°C

### VISCOSITY

1 up to 1,000,000 cSt

### PRESSURE

up to 450 bar

### FREQUENCY

up to 50 kHz

### ACCURACY

± 0.3% of measured value  
at viscosity > 21 cSt

Size	Flow range* l/min.	K-factor** Imp./l	Pressure max. bar
VSI 0.02	0.002 - 2	50,000 - 1,600,000	450
VSI 0.04	0.004 - 4	25,000 - 800,000	450
VSI 0.1	0.01 - 10	10,000 - 320,000	450
VSI 0.2	0.02 - 18	5,000 - 160,000	450
VSI 0.4	0.03 - 40	2,500 - 80,000	450
VSI 1	0.05 - 80	1,000 - 32,000	450
VSI 2	0.1 - 120	500 - 16,000	450
VSI 4	1 - 250	250 - 8,000	450
VSI 10	1.5 - 525	300 - 9,600	450

\*at 21 cSt

\*\* adjustable