

Enables easy off-line measurement
of high-viscosity fluids



High Viscosity Syringe Sampler HV-1

- Sample pressure compatible up to 0.3 MPa
- Operation of the sampler is identical to KZ-31W

(Example) Maximum drawable sample viscosity (cP) *(1 mPa·s=1 cP)

Model	Pressurization			Flow rate (mL/min)	Minimum measurable particle diameter (μm)
	None	0.1 MPa	0.2 MPa		
KS-41A	100	200	500	10	0.15
KS-42B	N/A	100	200	10	0.2
KS-42C	100	200	500	10	0.5
XP-65	500	2000	5000	3	0.2
KS-42CK	500	2000	5000	3	0.5

* Tested by Standard Liquid for Calibrating Viscometer (specific gravity 0.86 to 0.97) at 25 °C



Specifications [HV-1]

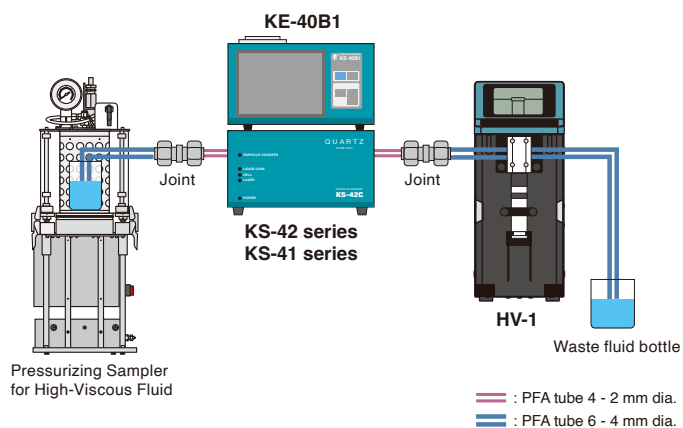
Supported models for connection		KE-40B1
Suitable syringe sizes		25 mL glass syringe (Pyrex glass)
Fluid-contacting materials		PCTFE, PTFE, PFA, Pyrex glass
Suitable sample fluids		Fluids which do not cause corrosion of fluid-contacting parts
Purge mode		
Flow rate	Setting range	3 to 100 mL/min (with liquid-borne particle counter connected)
	Resolution	1 mL/min
Capacity	Setting range	0 to 20 mL
	Resolution	0.5 mL
Repeat count setting range		1 to 99 times (with liquid-borne particle counter connected)
Measurement mode		
Flow rate	Setting range	3 to 100 mL/min (with liquid-borne particle counter connected)
	Resolution	1 mL/min
Capacity	Setting range	0 to 20 mL
	Resolution	0.5 mL
Blank volume	Setting range	0 to 5 mL
	Resolution	0.5 mL
Repeat count setting range		1 to 99 times (with liquid-borne particle counter connected)
Combination mode	Number of steps	2 to 10
Number of setting memory addresses		
Purge mode, Measurement mode		50 memories each (26 to 50 can only be set by PC)
Combination mode		20 memories (11 to 20 can only be set by PC)
External connectors		EXT CONTROL (D-sub 9-pin female)
Display		Segment type LCD
Ambient conditions for operation		+5 to +40 °C, 85 % RH or less (no condensation)
Sample fluid temperature range		+5 to +40 °C
Temperature and humidity range for storage		-10 to +50 °C, 85 % RH or less (no freezing)
Power requirements		100 to 240 V AC 50/60 Hz (3-pin plug), approx. 50 VA
Dimensions and weight		Approx. 345 (H) x 141 (W) x 215 (D) mm, approx. 5.5 kg
Supplied accessories		PFA tube 4 mm dia. x 6 mm dia., length 500 mm (with connector) 25 mL glass syringe set (Pyrex glass) AC power cord
Options		
Connection cable C KZ30S180		
25 mL glass syringe set		
PFA tube 4 mm dia. x 6 mm dia., length 500 mm (with connector)		
PFA tube 4 mm dia. x 6 mm dia., length 800 mm (with connector)		
Tube diameter converter 4 mm dia. x 6 mm dia. (both ends flared)		
PFA tube 2 mm dia. x 4 mm dia., length 60 mm (both ends flare shaped, with end caps)		

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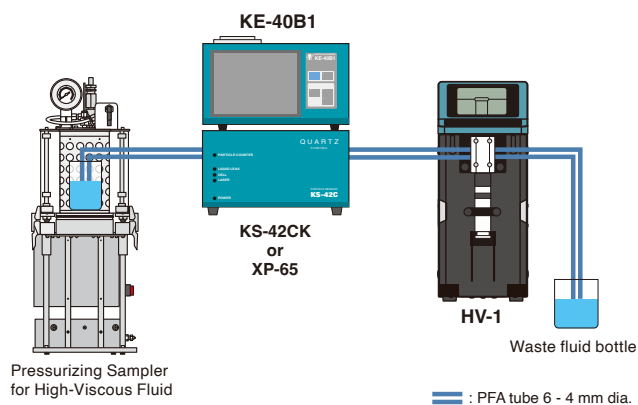


Example of measuring system

Pressurization with normal sensor



Pressurization with high-viscosity sensor



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