

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

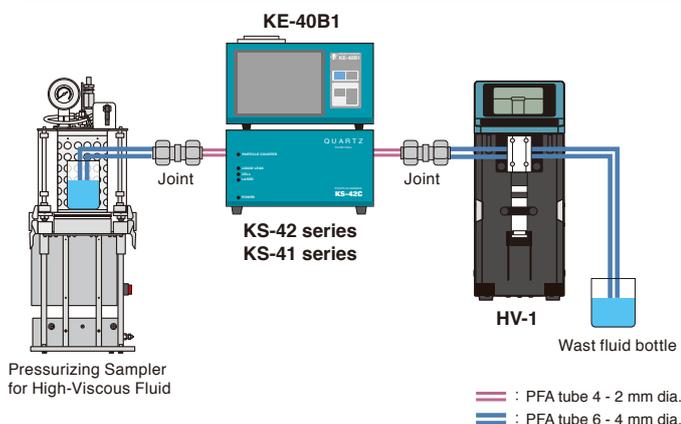
Supported models for connection	KE-40B1	
Suitable syringe sizes	25 mL glass syringe (Pyrex glass)	
Fluid-contacting materials	PCTFE, PTFE, PFA, Pyrex glass	
Suitable sample fluids	Fluids which do not cause corrosion of fluid-contacting parts	
Purge mode		
Flow rate	Setting range	3 to 100 mL/min (with 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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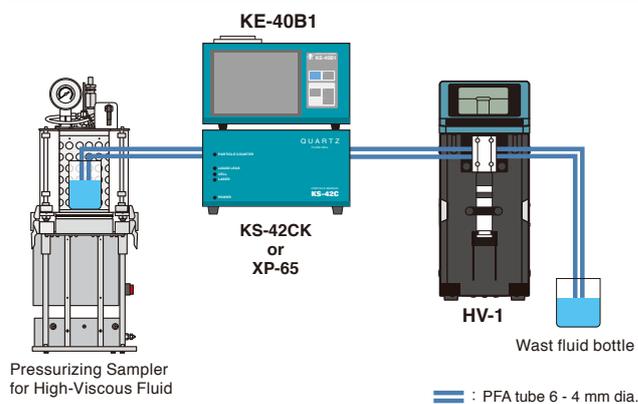


## Example of measuring system

### Pressurization with normal sensor



### Pressurization with high-viscosity sensor



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\* Specifications subject to change without notice.

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