

## HTVK: High Tonnage Verification Kit

HTVK Series Verification Kits are an accurate means of directly calibrating the compressive output of ENERPAC High Tonnage Cylinders and other high-force devices. Using the HTVK, the force output of a cylinder at various pressures can be measured and then used to determine its effective piston area.

Combined error of less than  $\pm 0.15\%$  of sensor capacity allows a single kit to service a broad range of cylinders or DUT (devices under test). Its high resolution makes hydraulic leak detection immediate and definitive.

### Key Features

- High-Resolution Digital Readout
- Selectable Units of Measure
- Real Time and Peak Force Modes
- Temperature Compensated for Field Measurements
- Standard RS-232 Output for Data Collection
- Optional Wireless Sensor Connection



### PERFORMANCE SPECIFICATIONS (klbf)

	Part Number	Full Scale	Resolution	Combined Error	Non-Repeatability
				( $\pm$ )	( $\pm$ )
Standard Sensor Capacities	HTVK-150T	300	0.01	0.45	0.09
	HTVK-200T	400	0.01	0.60	0.12
	HTVK-250T	500	0.01	0.75	0.15
	HTVK-300T	600	0.02	0.90	0.18
	HTVK-350T	700	0.02	1.05	0.21
	HTVK-500T	1,000	0.02	1.50	0.30
	HTVK-600T	1,200	0.05	1.80	0.36
	HTVK-800T	1,600	0.05	2.40	0.48
	HTVK-1000T	2,000	0.05	3.00	0.60

MECHANICAL (sensor)	
Safe Overload	$\pm 150\%FS$

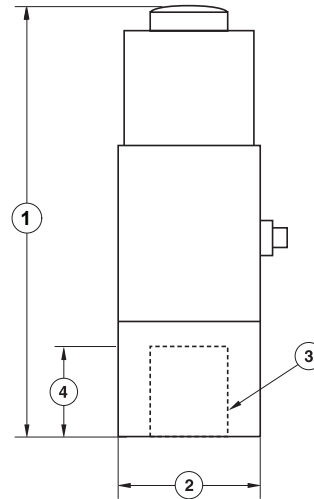
THERMAL	
Compensated Range (sensor)	32 to 132°F
Operating Range (sensor)	-30 to 200°F
Effect on Output (sensor)	0.003%FS/°F
Operating Range (display)	15 to 105°F

USER-SELECTABLE DISPLAY OPTIONS	
Display Resolution	100 to 50,000 counts
Sampling Rate	1.75 to 1200.00 Hz
Averaging Filter	0 to 12 samples
Units of Measure	lbf, N, kgf

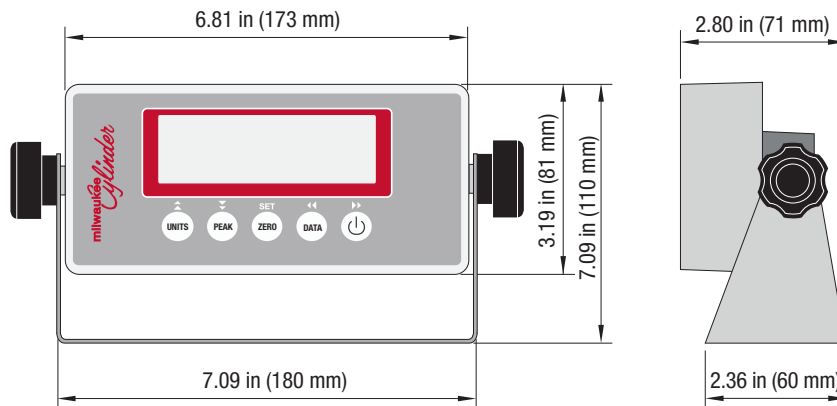
STANDARD SENSOR CABLE	
Wires	4
Length	15 ft.

**Connector: MS3102A-14S-5P**

Pin	Function
A	Excitation +
B	Excitation -
C	Output -
D	Output +
E	None



DIMENSIONS (in)				
	①	②	③	④
Description	Height	Body Ø	Thread Type (UNF)	Thread Depth
HTVK-150T	17.50	5.50	3 1/2-12	3.75
HTVK-200T	20.00	5.50	3 1/2-12	4.00
HTVK-250T	22.25	6.00	4-12	4.50
HTVK-300T	24.25	7.00	4 1/2-8	5.00
HTVK-350T	26.50	7.50	5-8	5.50
HTVK-500T	28.80	9.50	6-8	6.50
HTVK-600T	14.50	7.25	Base is Unthreaded	
HTVK-800T	16.25	8.25	Base is Unthreaded	
HTVK-1000T	18.00	14.00	Base is Unthreaded	



OPTIONS		
	Part Number	Description
Display Output	CABLE-RS232	RS-232 Output Cable*
	OUT-ANALOG	0-10V / 4-20mA Output
	OUT-BT	Bluetooth 4.0 Output
Sensor Connection	CABLE-RF	Wireless Sensor Link
Sensor Modification	Handles	Installed Handle Kit

\* RS-232 digital output is standard