

KDK
LOW FLOW ARMORED FLOWMETER



Flow
Pressure
Level
Temperature
measurement
monitoring
control

S1



- SS & PTFE/PFA Wetted Parts
- Pressures to 1850 PSI
- Integral Needle Valve
- Small Footprint
- Up to Two Limit Switches



Order from: **C A Briggs Company**
622 Mary Street; Suite 101; Warminster, PA 18974
Phone: 267-673-8117 - 800-352-6265; Fax: 267-673-8118
Sales@cabriggs.com - www.cabriggs.com

Model:
KDK



Features

- SS & PTFE/PFA Wetted Parts
- Pressures to 1850 PSI
- Integral Needle Valve
- Small Footprint
- Up to Two Limit Switches

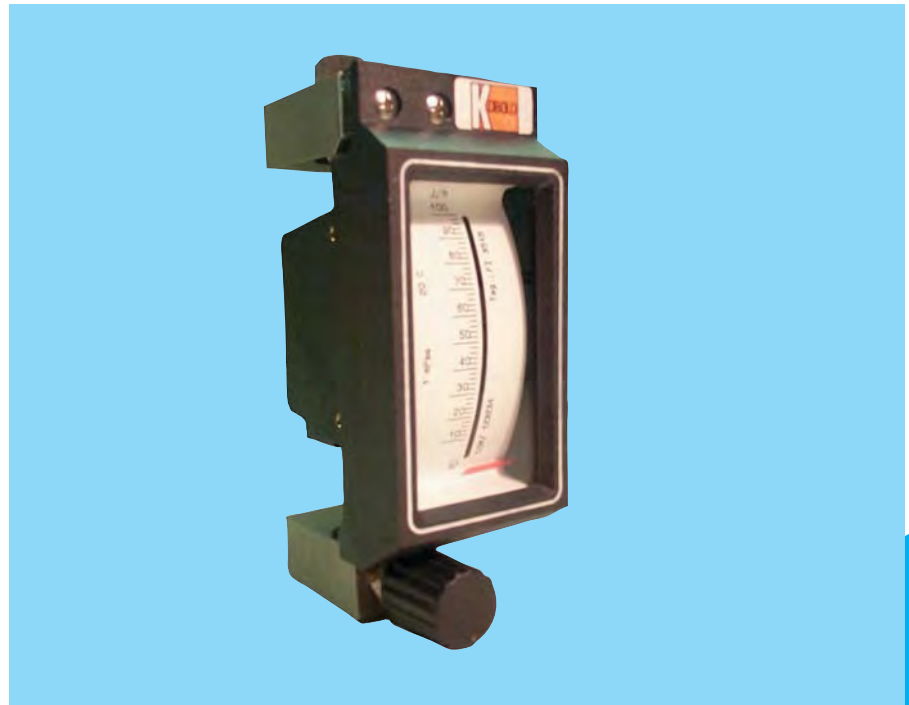
The Kobold KDK flowmeter functions at pressures up to 1850 PSIG. Its armored design includes an integral needle valve (also good to 1850 PSIG) for control of both liquid and gas flows. The 316 series stainless steel and PTFE/PFA gasket components are compatible with a large variety of process media.

Up to two switches are available to provide process control capability. The switches are proximity type and can be operated in an intrinsically safe mode with our model EX series control relays. The EX series relay will provide SPDT dry-contact switching appropriate for all your controlling and signalling applications.

An optional version with 4-20 mA output and LCD bargraph display is available. The 4-20 mA output is available in a standard or intrinsically safe version.

Specifications

Range
Water: 0.8 to 25 GPH
Air (@STP): 0.2 to 130 SCFH
Turndown: 10:1
Units: as desired
Accuracy: ±2.5% of full scale



KOBOLD KDK Armored Flowmeter

Fittings:	1/4" NPT	Housing:	epoxy/polyester coated aluminum
Max. Pressure:	1850 PSIG		NEMA 4
Temperature Range		Protection:	NEMA 4
Process		Switch Characteristics	
No Switch:	-110°F to +350°F	Power Supply:	8 VDC, 5 mA
With Switch:	-10°F to +350°F	Protocol:	NAMUR
		Self-inductance:	29 microHenries
Ambient:	-10°F to +140°F	Self-capacitance:	20 nanoFarads
Wetted Parts		Option E	
Main Body:	316-Ti SS	Power Supply:	18.5-30 VDC
Valve Assembly:	316 SS, 316-Ti SS, PTFE, PFA	Output:	2-wire, 4-20 mA
		Display:	LCD Bargraph
		Loop Load:	Max. 600 ohm

KDK Ordering Information

Water Flowmeter		Air Flowmeter	
Range (GPH)	Part Number	Range (SCFH)	Part Number
-	-	0.2-2	KDK-42005L
0.08-0.8	KDK-42010	-	-
0.13-1.3	KDK-42015	0.55-5.5	KDK-42015L
0.25-2.5	KDK-42040	1.5-15	KDK-42040L
0.65-6.5	KDK-42080	3-30	KDK-42080L
1.1-11	KDK-42125	5-50	KDK-42125L
1.6-16	KDK-42200	8-80	KDK-42200L
2.5-25	KDK-42340	13-130	KDK-42340L
Options	4-20 mA Output w/LCD Indicator	Suffix "E"	
	O2 Cleaning	Suffix "H"	
	Special Calibrated Scale	Suffix "Y"	
	1 Switch	Suffix: "R1" (not with Option E)	
	2 Switches	Suffix: "R2" (not with Option E)	

KDK SERIES FLOWMETERS APPLICATION GUIDE



**KDK Series Flowmeters
Application Guide**

Form # KDK-001
Rev. 11/01/01

Customer Name: _____

Company Name: _____

Phone: _____

Fax: _____

Quote #: _____ Date: _____ Price: _____ Each

Part Number: _____

* To ensure fast order processing, please retain the completed quote form and send it along with your purchase order.

Calibrated Measuring Range: _____

Design Conditions

Accurate design pressure and temperature are essential to ensure the flowmeter will be built to operate without damage. Please fill out accurately and completely.

List Design Conditions

1. **Pressure:** Maximum ____ PSIG
2. **Temperature:** Maximum _____ °F

Calibration Conditions: Accurate calibration conditions are required to ensure that the flowmeter will be factory calibrated to give accurate readings at the user's **normal operating** conditions. Please fill out accurately and completely.

Calibration Conditions for Liquid Flow Applications

1. **Type of Liquid:** _____
2. **Normal Operating Temperature:** _____ °F
3. **Viscosity at Normal Operating Temp:** _____
4. **Specific Gravity at Normal Operating Temp:** _____
5. **Desired Measuring Range and Units:** _____

Note: Items 3 & 4 not required for water flow

Calibration Conditions for Gas Flow Applications

1. **Type of Gas:** _____
2. **Normal Operating Temperature:** _____ °F
3. **Normal Pressure at Outlet Fitting:** _____ PSIG
4. **Specific Gravity (required for gas mixes only)** _____
5. **Desired Measuring Range and Units:** _____

Note: The calibration pressure required is the pressure that the meter sees at its outlet fitting.

Flowmeter Options

1. **Measuring Tube Material:** 316 SS Other: _____
2. **Desired Fitting:** 1/4" NPT (no other available)

Other Options

1. 1 NAMUR Flow Switch 3. 4-20 mA Output w/
LCD Bargraph Display
2. NAMUR Flow Switches 4. **Other Options:** _____

Quoted By: _____ Phone: _____

E-Mail: _____ Fax: _____

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