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GC Valves-K13 Series Overview

Mountain Controls is proud to offer quality solenoid valves from GC Valves. The K13 Series features the following:

- 3-way lever acting universal valve
- 0 to 275 psi
- Cv to 1.27
- Orifices to 13/32"
- Forged brass with metal seat
- 3/8" to 3/4" NPT ports

Specifications in this guide:

- K13 Series 3/8" NPT, Compact Brass Body, 3-Way Lever Acting, Universal
- K13 Series 1/2" NPT, Compact Brass Body, 3-Way Lever Acting, Universal
- K13 Series 1/2" NPT, Brass Body, 3-Way Lever Acting, Universal
- K13 Series 3/4" NPT, Brass Body, 3-Way Lever Acting, Universal





- 3/8" NPT
- Compact Brass Body
- 3-Way Lever-Acting
- Universal

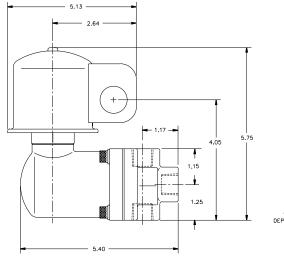


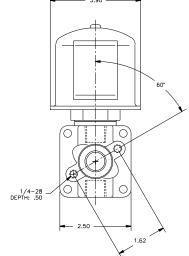
Materials	Seals:	Stainless Steel
	Orifices:	Stainless Steel
Electrical	Standard Housing:	Junction Box
	Optional Housings:	Conduit (NEMA1), Watertight (NEMA 4)
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available. Contact GC Valves Customer Service for additional voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H
	Standard Lead Length:	6 inch
Operating Temperature	Ambient (Nominal):	32° to 125°F
Mounting	Position:	Vertical Only
Approvals*	Agency:	UL Listed

* Not available for all variations

Dimensions/Weight

Weight (lbs.) 4.5







Univers	al		PORT	(Pressure	at No. 1 F	PORT 2	PORT 1]► COM.		Normally			PORT 1		Diverting		
		De	e-Energized Energized				De-Energized Energized						De-Energized Energized			
Pipe Size	Orifice Size			Operati Wa		ssure Maxi Ligh	mum		nd #6 d Fuel	Max Fluid Temp.	Consu	wer mption atts) Se		Model Code (120V/60HZ — 110V/50HZ) Shown)		
	O IN	Cv	Minimum	AC	DC	AC	DC	AC			Coil C	Brass Body				
3/8	1/8	.22	0	125	—	125	—	125	_	225	14	_	F*	K13CF1232		
	1/4	.75	0	25	—	25	—	25	—	225	14		F*	K13CF1432		

* Class H Coil Recommended for High Temperature Applications

Part Numbering

1 2 3	4	5	6	7	8	9
K 1 3	С	F	1	2	3	2
Series	Body Size	Housing*	Seal	Orifice Size	Pipe Connection	Voltage*
K13	C: Compact	F: Class F H: Class H	1: Stainless Steel	2: 1/8" 4: 1/4"	3: 3/8"	2: 120/60 110/50 4: 240/60 220/50
	" See the "E	ingineering Guide	e" for additional vo	oltages, variations a	and options.	

Coil F	amily	Frequency (Hz)	Frequency (Hz)						
Type C	Size C225	Nominal Power (VA)	Inrush	120	120				
			Holding	31	34				





- 1/2" NPT
- Compact Brass Body
- 3-Way Lever-Acting
- Universal

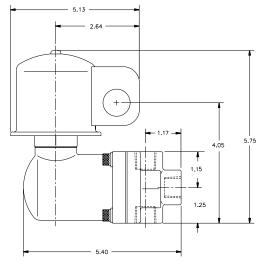


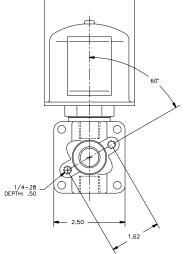
Seals:	Stainless Steel			
Orifices:	Stainless Steel			
Standard Housing:	Junction Box			
Optional Housings:	Conduit (NEMA1), Watertight (NEMA 4)			
Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available. Contact GC Valves Customer Service for additional voltages.			
Voltage Tolerance:	±10% of applicable voltage			
Coil Classes:	F, H			
Standard Lead Length:	6 inch			
Ambient (Nominal):	32° to 125°F			
Position:	Vertical Only			
Agency:	UL Listed			
	Orifices: Standard Housing: Optional Housings: Standard Voltages: Voltage Tolerance: Coil Classes: Standard Lead Length: Ambient (Nominal): Position:			

* Not available for all variations

Dimensions/Weight

Weight (lbs.) 4.5





3.90



Univers	al		PORT	PORT COM. (Pressure ergized	at No. 1 F	PORT 2	PORT 1 }► COM.		Normally Open					Diverting		
Pipe Size	Z Orifice Size	Cv			ng Pre	ssure Maxi		ential (p	nd #6 d Fuel	т Max Fluid Temp.	Pov	wer	Coil Class	Model Code (120V/60HZ — 110V/50HZ) Brass Body		
1/2	1/8 1/4	.22 .75	0 0	125 25		125 25		125 25		225 225	14 14		F* F*	K13CF1242 K13CF1442		

* Class H Coil Recommended for High Temperature Applications

Part Numbering

1 2 3 K 1 3		5	6 1	7	⁸	⁹ 2				
Series	Body Size	Housing*	Seal	Orifice Size	Pipe Connection	Voltage*				
K13	C: Compact	F: Class F H: Class H	1: Stainless Steel	2: 1/8" 4: 1/4"	4: 1/2"	2: 120/60 110/50 4: 240/60 220/50				
	* See the "E	* See the "Engineering Guide" for additional voltages, variations and options.								

Coil F	amily	Frequency (Hz)	Frequency (Hz)						
Type C	Size C225	Nominal Power (VA)	Inrush	120	120				
			Holding	31	34				





- 1/2" NPT
- Brass Body
- 3-Way Lever-Acting
- Universal

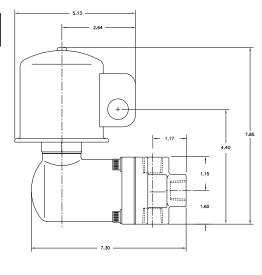


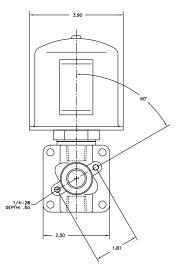
Materials	Seals:	Stainless Steel
	Orifices:	Stainless Steel
Electrical	Standard Housing:	Junction Box
	Optional Housings:	Conduit (NEMA1), Watertight (NEMA 4)
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available. Contact GC Valves Customer Service for additional voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H
	Standard Lead Length:	6 inch
Operating Temperature	Ambient (Nominal):	32° to 125°F
Mounting	Position:	Vertical Only
Approvals*	Agency:	UL Listed

* Not available for all variations

Dimensions/Weight

Weight (lbs.) 8.8







Univers	al		Ν	Normally Closed Normally Ope						y Oper	۱		Diver	ting			
				PORT com. (Pressure ergized	at No. 1 F		orr 1 }► com.	PORT 1 PORT 2 PORT 2 PORT 2 PORT 1 PORT 2 PORT 1 PORT 1 PORT 2 PORT 1 PORT 1 PORT 2 PORT 2						PORT 1 PORT 2 PORT 2			
D)	ize		(Operati	ng Pre	essure Maxi		ential (p	osi)	.dr	Po	wer		Model	Code		
Pipe Size	Orifice Size		mnr	Wa	iter	Ligh		Heate	nd #6 d Fuel Dil	Max Fluid Temp.		mption atts)	Class		– 110V/50HZ)		
NPT	IN	Cv	Minimum	AC	DC	AC	DC	AC	DC	°F	AC	DC	Coil (Brass	Body		
	1/8	.25	0	275	_	275		275	_	250	28	—	F*	K13D	F1242		
	3/16	.58	0	125		125	_	125	—	250	28	_	F*	K13D	K13DF1342		
1/2	1/4	.85	0	100	_	100	—	100	-	250	28	—	F*	K13D	F1442		
	13/32	1.27	0	25		25	_	25	—	250	28	—	F*	K13DF1542			
					* Cla	ass H (Coil Re	ecomm	ended	for Hig	gh Temp	perature	Appli	ications			
Pa	rt N	um	b	erin	ıg												
1	2	3			4		5			6		7		8	9		
K	1	3)		F			1		2		4	2		
	Series			Body	Size	⊦	lousin	g*	ę	Seal		Orifice S	Size	Pipe Connection	Voltage*		
	K13			D: Sta	ndard		H: Class H Steel 3				2: 1/8 3: 3/1 4: 1/4 5: 13	6" "	4: 1/2"	2: 120/60 110/50 4: 240/60 220/50			
				* Se	e the	"Engino	eering	Guide	" for ac	lditiona	al voltag	jes, vari	ations	and options.			

Coil I	Family	Frequency (Hz)	Frequency (Hz)						
Туре	Size		Inrush	60 278	278				
D	C300	Nominal Power (VA)			276				
			Holding	67	72				



VALVES

- 3/4" NPT
- Brass Body
- 3-Way Lever-Acting
- Universal

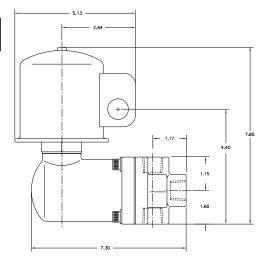


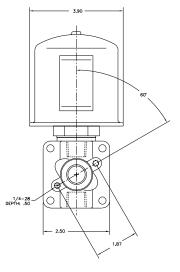
Materials	Seals:	Stainless Steel
	Orifices:	Stainless Steel
Electrical	Standard Housing:	Junction Box
	Optional Housings:	Conduit (NEMA)1, Watertight (NEMA 4)
	Standard Voltages:	24, 120, 240 AC 60 Hz; 50 Hz available. Contact GC Valves Customer Service for additional voltages.
	Voltage Tolerance:	±10% of applicable voltage
	Coil Classes:	F, H
	Standard Lead Length:	6 inch
Operating Temperature	Ambient (Nominal):	32° to 125°F
Mounting	Position:	Vertical Only
Approvals*	Agency:	UL Listed

* Not available for all variations

Dimensions/Weight

Weight (lbs.) 8.8







Universal			Normally Closed					Normally Open						Diverting		
	PORT 1 PORT 2 (Pressure at No. 1 Port) De-Energized Energized						PORT 1 PORT 2 (Pressure at No. 2 Port) De-Energized Energized						PORT 1 PORT 2 (Pressure at Com. Port) De-Energized Energized			
-	Orifice Size		(Operating Pressure Differe				ntial (p	osi)	Fluid Temp.	Pc	Power Consumption (Watts)		Model Code		
Pipe Size			unu	Water			Maximum Light Oil		#5 and #6 Heated Fuel Oil					(120V/60HZ — 110V/50HZ) Shown		
NPT	IN	cv	Minimum	AC	DC	AC	DC	AC	DC	°F	AC	DC	Coil Class	Brass	Body	
3/4	1/8	.25	0	275	_	275	_	275	—	250	28	_	F*	K13DF1252		
	3/16	.58	0	125		125	_	125	_	250	28	_	F*	K13DF1352		
	1/4	.85	0	100		100		100		250	28		F*	K13DF1452		
	13/32	1.27	0	25	25 — 25 — 25		25	— 250 28 — F			F*	K13DF1552				
					* Cla	ass H (Coil Re	ecomm	ended	for Hig	gh Temp	perature	Appl	ications		
Part Numbering																
1 2 3			4			5					7		8	9		
K 1 3				D			F					2		5	2	
Series				Body Size		⊦	Housing		* 5		Orific		Size	Pipe Connection	Voltage*	
K13				D: Standard			F: Class H: Class			tainles teel	ess 2: 3 3: 4 5: 1		6"	5: 3/4"	2: 120/60 110/50 4: 240/60 220/50	
				* See the "Engineering Guide" for a						dditional voltages, variation			ations	s and options.		

	Coil F	amily	Frequency (Hz)	60	50	
	Туре	Size			278	278
_	D	C300	Nominal Power (VA)	Inrush		
				Holding	67	72