



5-year warranty

Type overview

Type	DN
G6150CS-250	150

Technical data

Functional data	Valve size [mm]	6" [150]
Fluid	chilled or hot water, up to 60% glycol, steam	
Fluid Temp Range (water)	32...350°F [0...176°C]	
Fluid Temp Range (steam)	32...338°F [0...170°C]	
Body Pressure Rating	ANSI Class 250, up to 280 psi below 350°F	
Flow characteristic	equal percentage	
Servicing	repack/rebuild kits available	
Rangeability Sv	98:1	
Max Differential Pressure (Steam)	50 psi [345 kPa]	
Flow Pattern	2-way	
Leakage rate	ANSI Class III	
Controllable flow range	stem up - open A - AB	
Cv	344	
Maximum Inlet Pressure (Steam)	100 psi [690 kPa]	
Materials	Valve body	Cast iron - ASTM A126 Class B
	Valve plug	Stainless steel
	Stem	316 stainless steel
	Stem seal	NLP EPDM (no lip packing)
	Seat	Stainless steel AISI 316
	Pipe connection	250 lb flanged
Suitable actuators	Non-Spring	EVB(X)
	Electrical fail-safe	AVKB(X) (2*GKB(X))

Safety notes



- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The valve does not contain any parts that can be replaced or repaired by the user.
- When determining the flow rate characteristic of controlled devices, the recognised directives must be observed.

Dimensions

Type	DN	Weight
G6150CS-250	150	196.25 lb [89 kg]

EVB, EVX, RVB, RVX		Number of Bolt Holes					
		A 18.6" [473]	B 18.6" [473]	C 27.9" [708]	D 19.4" [492]	E 6.3" [160]	F 5.5" [140]
AVKB, AVKX		Number of Bolt Holes					
		A 16.5" [420]	B 18.6" [473]	C 27.9" [708]	D 19.4" [492]	E 6.3" [160]	F 5.5" [140]
2*GKB, 2*GKX		Number of Bolt Holes					
		A 16.5" [420]	B 18.6" [473]	C 32.4" [823]	D 8.5" [216]	E 6.3" [160]	F 5.5" [140]



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**Technical data**

	Electrical data	
	Nominal voltage	AC 100...240 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	5 W
	Power consumption in rest position	1.5 W
	Transformer sizing	7.5 VA (class 2 power source)
	Electrical Connection	18 GA appliance cable with 1/2" conduit connector, 3 ft [1 m], degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout full stroke
	Electrical Protection	actuators are double insulated
	Functional data	
	Actuating force motor	2500 N [560 lbf]
	Position feedback U note	No Feedback
	Direction of motion motor	selectable with switch 0/1
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Stroke	2" [50 mm]
	Running Time (Motor)	90 s /
	Running time motor variable	90 or 150 s
	Noise level, motor	60 dB(A)
	Position indication	Mechanically, with pointer
	Safety data	
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
	Materials	
	Housing material	Die cast aluminium and plastic casing
	Footnotes	† Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control pollution degree 3.

☒ INSTALLATION NOTES

- Ⓐ Actuators with appliance cables are numbered.
- Ⓑ Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- ◆ Meets cULus requirements without the need of an electrical ground connection.
- ⚠ **Warning! Live electrical components!**
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams

On/Off

