

## Automatic gas shutoff device Shutoff valve specifications

Item		Specification					Remark	
Model		KCV-2-20P	KCV-2-25T,P	KCV-2-32T,P	KCV-2-40T,P	KCV-2-50T,P	KCV-2-80T,P	
Caliber (Inlet/outlet)		20A	25A	32A	40A	50A	80A	straight type
Connection screw		Rc 3/4	Rc 1	Rc 1 1/4	Rc 1 1/2	Call 2	Call 3	50A,80A...JIS B2301 Equivalent to assembled flange
Dimension	height	159mm		170mm	251mm	308mm	330mm	
	width	100mm		120mm	170mm	230mm	280mm	
	depth	101mm		121mm	164mm			
Weight		1.5kg		1.7kg	3.7kg	7.2kg	9.1kg	
Applicable gas		T: City gas P: LP gas						
Operating pressure range		0~3.43kPa[0~350mmH <sub>2</sub> O]						
Operating temp.		-25°C~70°C						
Pmax.		0.1MPa or higher [1kg/cm <sup>2</sup> or higher]						
Airtightness		External leakage No leakage / 34.3 kPa [3500 mmH <sub>2</sub> O] Internal leakage 0.25L/h or less 490Pa[50mmH <sub>2</sub> O] Below 0.25L/h 4.12Pa[420mmH <sub>2</sub> O]						
Explosion resistance		No detonation by open/close operation in an atmosphere with hydrogen concentration of 19%~23%.						
Valve	Electrical operation	DC12V when closed, DC24V when open			DC12V when closed, DC45V when open		By capacitor discharge	
	manual operation	By operating the reset switch (blue) inside the transparent display cap. Pull...valve open, push...valve closed						
opening and shutting indication		Answer-back type: Open/close signals are sent to the actuator by a reed switch. Valve closed: reed switch ON, valve open: reed switch OFF						
Mounting posture		Horizontal, vertical						
Connection cable		T: VCTF 0.75mm <sup>2</sup> , 4 core, 1m (red: +, black: -, white: answer, green: pressure) P: VCTF 0.75mm <sup>2</sup> , 5 cores, 1m (Red: +, Black: -, White: Answer, Green: Pressure, Yellow: G wire)					※1	
Other		T: Inspection Rules for Automatic Gas Shutoff Devices for City Gas P: Inspection Rules for Gas Leak Alarm Shutoff Devices for Liquefied Petroleum Gas <sup>1)</sup> passed						

※1 When connecting to a centralized monitoring system using telephone lines, use G wire (yellow) only in this case and make a 5-conductor connection, since FG wire may be used in some systems.

Normally, the G wire (yellow) should be left free since it is a 4-conductor connection, and the FG wire should be used in accordance with the instructions of the gas supplier or the system manufacturer.

### • Caution on pressure sensor setpoints

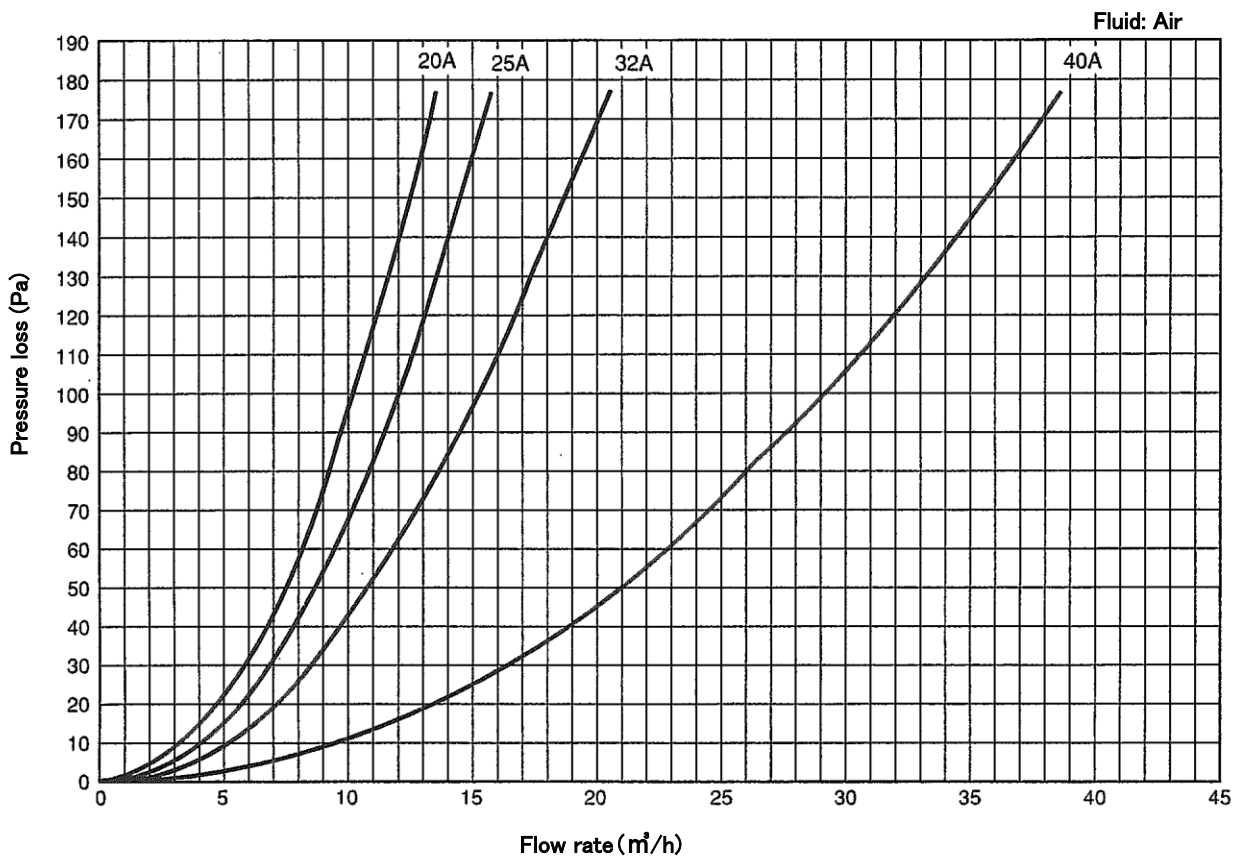
The pressure sensor built into the shutoff valve has three factory-set values for detecting a drop in gas pressure. The set values cannot be changed after shipment, so please be sure not to make a mistake in selecting the shutoff valve.

Classification	Gas type	Set value
Gas Type Category I	City gas	4A,5AN,5A,6A,4B,5B,6B,4C,5C,6C,7C 196~490Pa[20~50mmH <sub>2</sub> O]
Gas Type II	City gas, natural gas	11A,12A,13A 686~980Pa[70~100mmH <sub>2</sub> O]
Gas Type III	LP Gas	LPG 1.37~1.62kPa[140~165mmH <sub>2</sub> O]

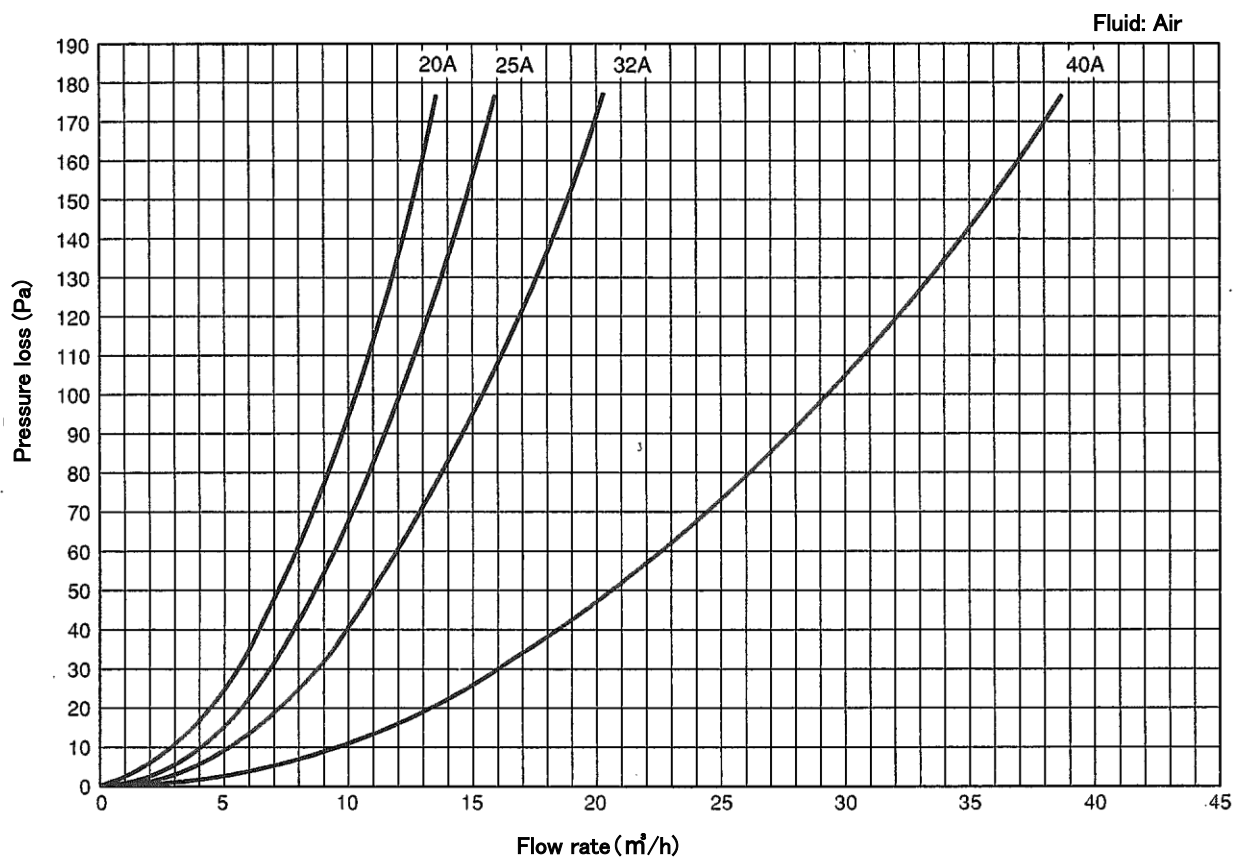
• When selecting a shutoff valve, refer to the "Shutoff Valve Flow Characteristics Graph" and fully consider the pressure loss and other factors.

**Note: Features**

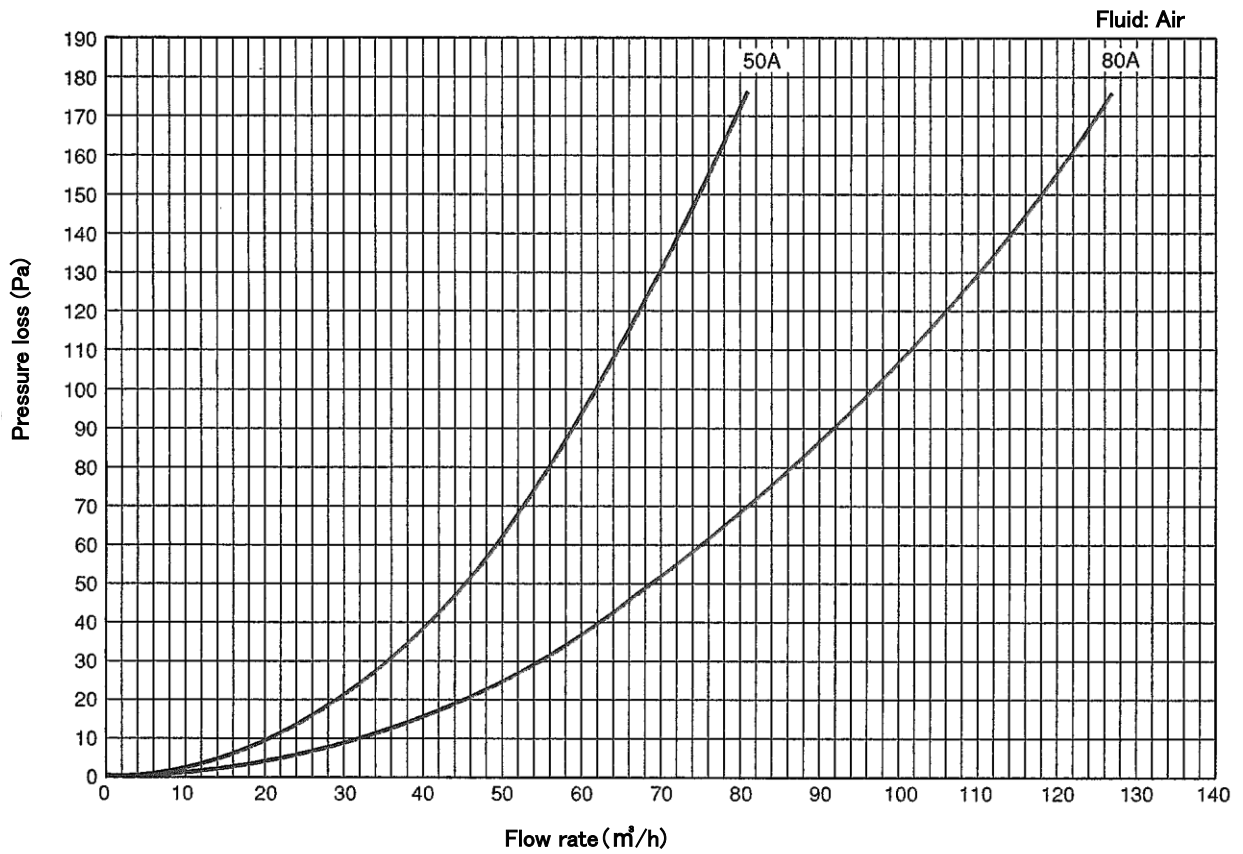
**Shutoff valve flow characteristic 1 (Caliber: 20A to 40A Inlet pressure: 980 Pa)**



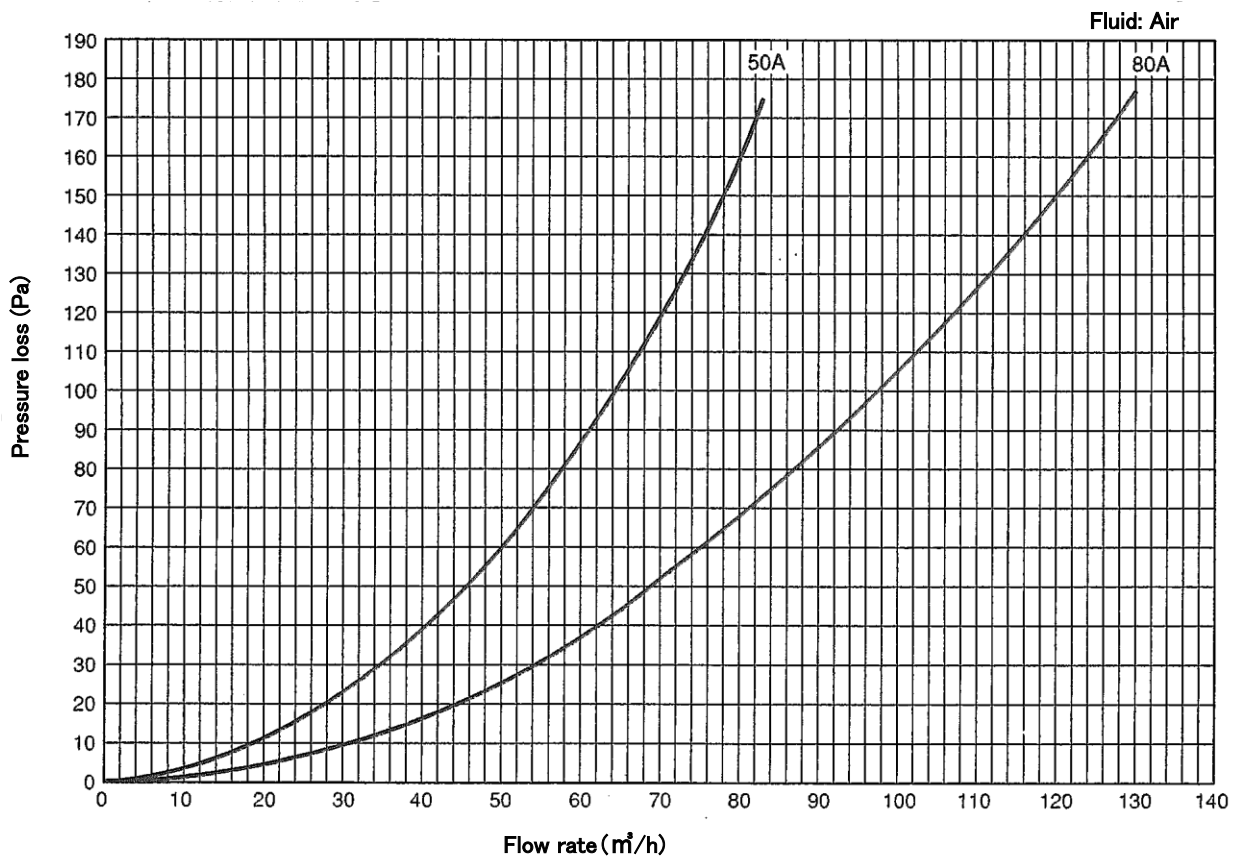
**Shutoff valve flow characteristic 2 (Caliber: 20A~40A Inlet pressure: 2.7kPa)**



Shutoff valve flow characteristic 3 (Caliber: 50A~80A Inlet pressure: 980Pa)



Shutoff valve flow characteristic 4 (Caliber: 50A~80A Inlet pressure: 2.7kPa)



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