



Applications:

- Security systems for natural gas and LPG burners.

Construction characteristics

Injected aluminum body.
 Seats: Buna N.
 Interior: brass, stainless steel.
 BSP or NPT 3/4" connections.
 BSP or NPT 1/8" pilot connection.
 Maximum torque: 30 Nm (22 lb.ft).
 Thermocouple connection: M9 x 1.
 Maximum torque: 4 Nm (3 lb.ft)

Technical characteristics

No minimum pressure to operate.
 Opening time: 5 seconds.
 Cut off time due to lack of flame: < 1 second.

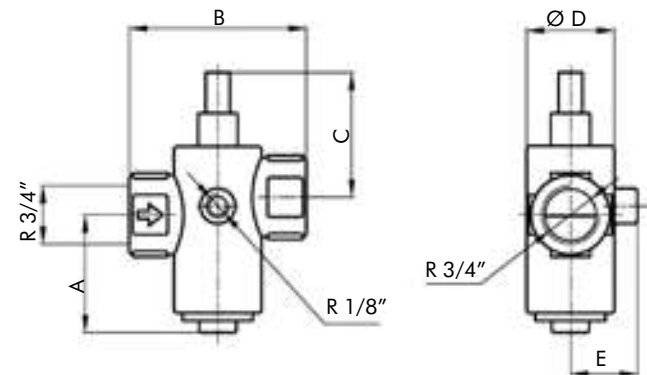
Observations:

Cut off time due to lack of flame depends on valve + thermocouple assembly, which should be: < 45 sec.

Additional features

Standard thermocouples: 16", 24" and 47" (400, 600, 800, 1200 and 2000 mm).

V171 General dimensions



A	B	C	Ø D	E
54	81	57	41	31

Measurements: mm

A	B	C	Ø D	E
2.12	3.18	2.24	1.61	1.22

Measurements: ins.

Technical specifications

Ø Orifice		Flow factor		Pilot	Maximum pressure		Minimum temperature		Maximum temperature		Weight		Catalog N°
mm	ins.	Kv	Cv		bar	psi	°C	°F	°C	°F	Kg	Lb	
19	0.75	4.2	4.9	si	0.2	3	-10	14	80	176	0.44	0.97	V171 P06
19	0.75	4.2	4.9	no	1.5	22					0.43	0.95	V171-2
9	0.35	1.9	2.2	si	1.5	22					0.44	0.97	V171-3

Installation Recommendations

The cutting time of a thermocouple safety valve depends on the sensitivity of different thermocouples available locally and facilities, so you should consider these factors to establish the response time, which should not exceed 45 seconds according to “NAG 201” standard.

The installation of the thermocouple is important for proper closure. If it is placed in a position close to a source of radiation, it can be sufficiently high to prevent the temperature drops or lengthen the time required for closing the valve.

To extend the life of the thermocouple, it must be installed to avoid overheat.

That is the reason why it must be placed in a position to generate only the enough power to maintain the valve open.

This is a benefit in the absence of flame, because you will get a quick drop in temperature and consequently a proper cut response.

The pilot flame should ensure a positive main burner ignition.

