




SPECIAL FLUIDS COMBUSTIBLE GAS AND OIL

Product Index



Quick Selection
Chart
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Function	Δ P		Temperature			Pipe connections	Series	Page
	min. (bar)	max. (bar)	min. (°C)	max. (°C)				
BRASS BODY								
NC-NO	0	45	-20	+125	Fuel oil	 3/8 .. 3/4	266	1
NC	0	2,76	0	+60	Combustible gas, EN 161	1/8 - 1/4	262	3
NC	0	0,48	0	+60	Combustible gas, EN 161	3/8 - 1/2	030	11
ALUMINIUM BODY								
NC	0	1	-40	+90	Combustible gas (air)	1/8 .. 3/4	040	7
NC	0	0,14	0	+60	Combustible gas, EN 161	3/8 .. 1	040	9
NC	0	2	-15	+60	Combustible gas, EN 161	3/8 - 1/2	215	13
NC-NO	0	9	-20	+85	Combustible gas (air , inert gas)	3/8 - 3	215	13 ⁽³⁾
BRONZE BODY								
NC	0	10	-10	+60	Combustible gas, EN 161	1/2 - 2	290	15
STAINLESS STEEL BODY								
NC ⁽¹⁾	0	9/10	-10	+60	Combustible gas, EN 161-CERTIGAZ	 1/2 - 2	290	15
NC ⁽²⁾	0	1	-10	+60	Combustible gas, EN 161-CERTIGAZ	3/8 - 2	290	17
STAINLESS STEEL BODY - PROPORTIONAL VALVES								
NC ⁽²⁾	0	1	0	+50	Combustible gas, EN 161-CERTIGAZ	 1/2 - 2	290	19

⁽¹⁾ Fluid entry above the disc.

⁽²⁾ Fluid entry under the disc.

⁽³⁾ See section: [Solenoid Valves \(2/2\)](#) (www.asco.com)

(Potentially explosive atmospheres, see page: II)

All leaflets are available on: www.asco.com

What is combustible gas?

Combustible gases are gases or gaseous mixtures which burn in the presence of air or oxygen and are used mainly for heat generation. Combustible gases belong to families of gases whose combustion characteristics are in a large measure similar and which make them interchangeable.

- The first family of gases comprises town gas (made from coal) and coke-oven gas (gaseous fuel rich in carbon monoxide and hydrogen);
- the second family comprises natural gases, gases associated with petroleum and gases interchangeable with these;
- the third family of gases comprises liquefied petroleum gases.

Pressure operated valves/Solenoid valves to EN 161: What is this standard and what does it apply to?

This standard applies to electrically actuated shut-off valves with an operating pressure below or equal to 4 bar [for burners or appliances that can be fuelled with one or several types of 1st family gases (town gas etc.), 2nd family gases (natural gas etc), or 3rd family gases (liquefied petroleum gases)].

It defines the safety, design and operating specifications for shut-off valve.

The purpose of these valves is to automatically shut off the source of gas on loss of power.

They must operate:

- within their full operating pressure range;
- within ambient temperature ranges: 0° to +60°C;
- within voltage ranges from: 85% to 100% (of their nominal voltage).

Pressure operated valves/Solenoid valves to EN 161 must likewise meet these requirements.

The valves can be mounted in any position without affecting operation.

Closing time: The closing time (the valve's response time) must not exceed 1 s.

Gas compatible elastomer materials must be homogeneous and free of pores, inclusions, grains, blisters and surface imperfections visible to the naked eye.

Valve marking: EU (in accordance with the Regulation (EU) 2016/426 on gas appliances).

The 2/2 NF shut-off valves from the 290 series comply with the European Pressure Equipment Directive 2014/68/EU and the Regulation (EU) 2016/426 on gas appliances.

In the context of the Regulation on gas appliances, these valves meet the specifications of the standard EN 161 for combustible gas applications and have achieved certification:

EU type examination certificate no.: CERTIGAZ 1312CN5765

EU type examination certificate no.: CERTIGAZ 1312CP5992

EU type examination certificate no.: CERTIGAZ 1312CQ6072

I do not need products to EN 161 standard, so which ones apply to me?

You can use non-EN 161 products such as: (**See sections**)

Combustible Gas & Oil (www.asco.com) [**040 Series**]

Solenoid Valves (2/2) (www.asco.com) [**030 Series**] et (www.asco.com) [**215 Series**]

Pressure Operated Valves (2/2) (www.asco.com) [**290 Series**]

Before use, make sure that the compatibility of the fluids in contact with the materials is verified.

To check for compatibility, see the "Chemical Resistance Guide" in section:

«**General & Engineering Information**» (www.asco.com)

The information in the Guide is given for reference only. ASCO declines all responsibility for any use of its products with fluids not specified in the table. Please contact us for any specific uses.

