

SPECIAL FLUIDS COMBUSTIBLE GAS AND OIL

Product Index



Function	ΔP		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	V902-09
NC	0	2,76	0	+60	Combustible gas, EN 161	1/8 - 1/4	262	V902-13
NC	0	0,48	0	+60	Combustible gas, EN 161	3/8 - 1/2	030	V902-19
ALUMINIUM BODY								
NC	0	1	-40	+90	Combustible gas (air)	1/8 .. 3/4	040	V902-15
NC	0	0,14	0	+60	Combustible gas, EN 161	3/8 .. 1 1/2	040	V902-17
NC	0	2	-15	+60	Combustible gas, EN 161	3/8 - 1/2	215	V902-25
NC-NO	0	9	-20	+85	Combustible gas (air , inert gas)	3/8 - 3	215	Sect.C/V385



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.

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 from 0° to +60°C;
- within voltage ranges from 85% to 100% of their nominal voltage.

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: specific according to EN 161.

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

You can use non-EN 161 products such as series 040 solenoid valves (see page V902-15), series 030 solenoid valves (see Section C, page V270) or series 215 solenoid valves (see section C, page V385).

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 A, page V011. 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.



