

***This is a general documentation; for specific applications not covered by this leaflet, please consult us.***

The SUNTEC M2N combined gas valve is a 1-stage system, with two safety valves.

## APPLICATIONS

The SUNTEC combined gas valve is recommended for collective or industrial pressure jet burners.

The use of the SUNTEC combined gas valve is recommended in all gas installations requiring a safety shutoff for inlet pressure up to 360 mbar.

It is suitable for use with 1st, 2nd and 3rd family gases (according to EN 437).

## OPERATION PRINCIPLE

M2N combined gas valve comprises two class A automatic safety valves, direct-acting, electrically operated.

At rest, both safety valves are closed; thus gas cannot flow beyond chamber ①.

When energized, the coils open and release the gas flow from chamber ① to chamber ② for safety valve V1 (from chamber ② to chamber ③ for V2).

When de-energized, each safety valve closes within 0.2 s.

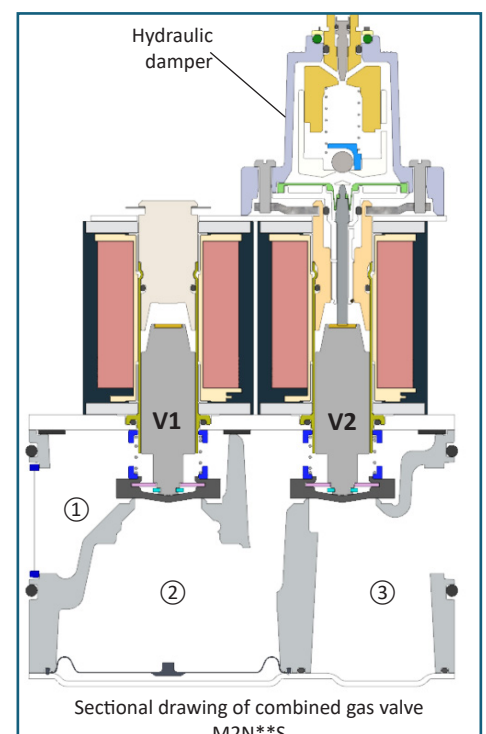
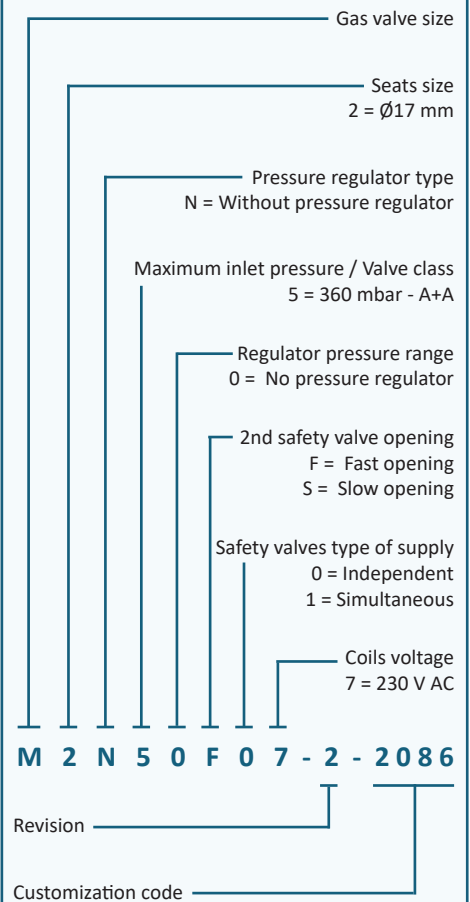
### Slow opening (M2N\*\*S)

A hydraulic damper, placed above the safety valve V2, offers the possibility to dampen the movement of the safety valve V2 and thus apply a progressive gas flow in the combustion chamber in the starting phases.

This device allows a fast initial opening (ignition flow) of the safety valve V2, adjustable up to 80% of the maximum flow.

## COMBINED GAS VALVE IDENTIFICATION

*(Not all model combinations are available. Consult your Suntec representative)*



## TECHNICAL SPECIFICATIONS

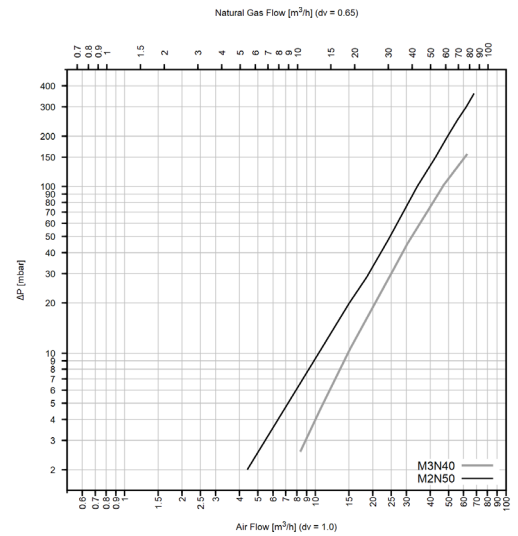
### General

<b>Maximum operating pressure</b>	360 mbar
<b>Ambient temperature range</b>	-20°C to +60°C
<b>Operation with</b>	Air and gas of 1st, 2nd and 3rd families
<b>Body</b>	Aluminium
<b>Weight</b>	<ul style="list-style-type: none"> <li>• M2N**F : 2.3 kg</li> <li>• M2N**S : 2.5 kg</li> </ul>
<b>Certification</b>	CE: Certificate n°1312CU6361 UKCA : certificate n°8510/0099
<b>Inlet/outlet flanges</b>	<ul style="list-style-type: none"> <li>• DN15 (Rp1/2")</li> <li>• DN20 (Rp3/4")</li> </ul>
<b>Pressure taps</b>	G1/8" connections Supplied in 3 locations on the combined gas valve, and on inlet/outlet flanges.
<b>Inlet strainer</b>	Mesh size : 0.6 mm. Replaceable filter.
<b>Pressure switch (optional)</b>	Factory mounted on inlet flange. When suitable configuration, can be side-mounted.

### Safety valve characteristics

<b>Leakage class</b>	Class A+A
<b>Opening time (EN 161)</b>	<ul style="list-style-type: none"> <li>• M2N**F : &lt; 0.5 s</li> <li>• M2N**S : &lt; 10 s (For other setting, contact SUNTEC.)</li> </ul>
<b>Closing time (EN 161)</b>	<ul style="list-style-type: none"> <li>• M2N**F : &lt; 0.2 s</li> <li>• M2N**S : &lt; 0.2 s</li> </ul>
<b>Voltage</b>	230 V AC, 50/60 Hz
<b>Consumption</b>	34 VA
<b>IP rating</b>	IP54 (with suitable connector) according to EN 60529 standard.

## FLOW CURVE



P burner = 3 mbar  
Flange = Rp3/4"

*Maximum flow can be reduced when other flanges are connected with.*

## DIMENSIONS

