

ExD 2 TEST APPARATUS

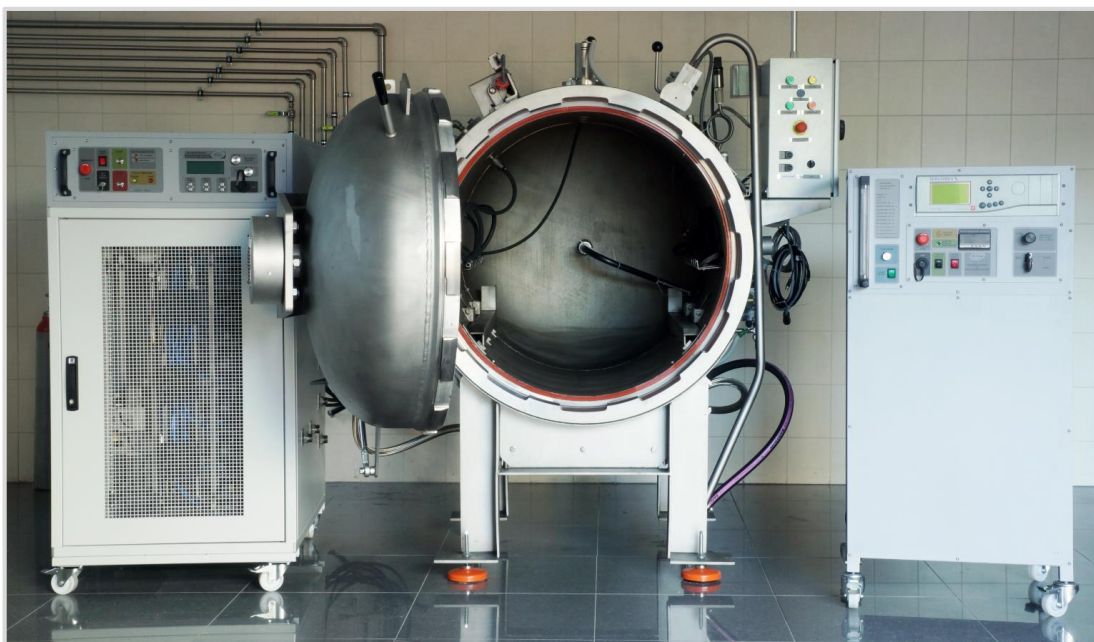
- TEST OF ABILITY OF THE ENCLOSURE TO WITHSTAND PRESSURE
- TEST FOR NON-TRANSMISSION OF AN INTERNAL IGNITION

Model: ExD 2.0

ver. 2.0, 2016

STANDARD REFERENCES:

- IEC 60079-1:2014
 - EN 60079-1
 - ISA 60079-11
- Explosive atmospheres - Part 1:
Equipment protection by flameproof enclosures "d"



VESSEL SPECIFICATION:

Chamber volume	1, 2, 5, 10 m ³
Working pressure	$P_{max} \geq 25$ bar
Open/close system	quick bayonet lock pneumatic drive
Material	stainless steel, ANSI 321 or 316Ti
Control block	open/close control safety circuits & interlocks

GAS MIXING DEVICE:

Flammable mixtures	according to IEC 60079-1
Flow rates	① 2-20 l/min, 5-50 l/min ② 20-200 l/min, 50-500 l/min
Built-in devices	flame arresters safety circuits & interlocks PC control block
Gas mixing accuracy	0,1 – 1 % [V/V] according to IEC 60079-1

CONTROL BLOCK:

Oxygen meter	built-in
Static pressure meter	0-1500 mbar abs
DAQ system	PC data acquisition USB output
Explosion pressure signals	fast dynamic pressure sensors fast data storage

SOFTWARE:

Explosion pressure data analysis	p_{max} , $(dp/dt)_{max}$
Pressure piling analysis	
User panel-diagram of the complete Ex-d system	
Safety interlocks	

ACCESSORIES, MANUALS, TRAININGS:

Spare parts set for minimum 1 year use
Installation manual, operating manual, maintenance guide
Installation assistance, training on-site

The information given in this document represents the state of engineering at the time of publishing. We reserve the right to make modifications to above specifications.