Product Comparison Leak and Flow Testers

Typ		Leak Testers									Flow Testers		
Product Series		CETATEST			CETATEST						CETATEST		
		XS	715	DVPG 3K	515	815	825	815 HD-DA primary	815 HD-DA secondary	Hydrogen Leak Tester	615	915	915-G
Operating principle		Pressure difference Gauge pressure sensor			Pressure difference Differential pressure sensor					Tracer gas method	Mass flow sensor	Pressure difference at laminar flow element	
Test medium	Compressed air	●	●	●	●	●	●	●			●	●	●
	Hydrogen / tracer gas									●			
Measurement ranges	± 500 Pa				●	●	●	●					
	± 2,500 Pa	●	●										
	± 5,000 Pa		●		●	●	●	●					
	± 10,000 Pa	●	●										
	20 bar			●									
	Ab 10^{-6} mbar · l/s									●			
	0 – 10 Nml/min										●		
	0 – 25 Nml/min										●		
	10 – 600 Nml/min										●		
	10 – 600 ml/h												●
	3 ml/min - 200 l/min (depending on LFE, LFE = laminar flow element)											●	
Pressure ranges Usually electronically controlled (M = mechanically controlled) (ME = mechanically or electronically controlled)	-1 bar	●	●		●	●	●					●ME	
	-1 / +1 bar	●	●		●	●	●						
	-1 / +6 bar		●			●	●						
	-1 / +10 bar		●			●	●						
	-50 / +50 mbar					●	●						
	-5 / +5 mbar					●	●						
	+150 mbar								●ME			●ME	●M
	+200 mbar	●	●		●	●	●						
	+ 1 bar	●	●		●	●	●				●	●ME	
	+ 6 bar		●		●	●	●				●	●ME	
	+ 8 bar	●								●			
	+ 10 bar		●			●	●				●	●ME	
	+ 16 bar		●										
	+ 20 bar		●	●		●	●						
	+ 30 bar					●	●						
	+ 400 bar							●M					
	other ranges on request		●		●	●	●	●	●		●	●	●
Applications	Smallest volume components				●								
	Small volume components	●				●	●						
	Large-volume components		●								●		
	Smallest leaks									●			
	Large leaks		●									●	
	Pneumatic circuits of motor vehicles			●									
	Gas industry												●
	Tightness of gas- and liquid-filled products									●			
Special features	Short testing time	●			●	●	●						
	Large measuring range	●	●									●	
	Variety of test types					●	●						
	Industrial-PC: Quad Core CPU, 1,8 GHz, 4 GB RAM, 128 GB SSD						●						
	Number of test programs	8	64	256	64	64	256	64		>100	64	64	64
Test modes	Pressure decay	●	●	●	●	●	●						
	Pressure decay - High Speed	●			Option								
	Dynamic pressure		Option			Option	Option						
	Sealed component		Option		Option (high resolution)	Option	Option						
	Pressure rise				Option	Option	Option	●					
	Pressure steps		Option			Option	Option						
	Flow test by volume flow measurement											●	●
	Leak test by mass flow measurement										●		
	Injection method									●			
Test options	Prefill	●	Option		Option	Option	●						
	Smooth filling	●	Option		Option	Option	●						
	Program series		Option		Option	Option	Option				Option	Option	Option
	Pulsing		Option		Option	Option	●						
	Temperature compensation				Option	Option	Option						
	Variable zero point		Option		Option	Option	Option						
	Test repetition		Option		Option	Option	Option						
	Exponential extrapolation											Option	
	Bypass											Option	
	Free programmable control valves		Option		Option	Option	Option				Option	Option	Option
Multi-channel option	Number of channels	1	2	3	1	2	multi (in planning)	2		1	1	1	1
	Operating mode Synchronous (S) / Asynchronous (A)	-	S	S	-	S	A	S		-	-	-	-
Interfaces	Digital I/O	●	●	-	●	●	●	●		●	●	●	●
	RS-232	●	●	-	●	●	●	●		●	●	●	●
	USB Host	-	●	●	●	●	●	●		●	●	●	●
	Profibus DP	-	Option	-	Option	Option	Option	Option		Option	Option	Option	Option
	Profinet	-	Option	-	Option	Option	Option	Option		Option	Option	Option	Option
	Ethernet	-	Option	-	Option	Option	●	Option		●	Option	Option	Option
	EtherCAT	-	Option	-	Option	Option	Option	Option		-	Option	Option	Option
	Bluetooth	-	Option	-	Option	Option	-	Option		-	Option	Option	Option
	USB Slave	●	Option	-	Option	Option	Option	Option		-	Option	Option	Option
Display	Resolution	14 Segment display, 6 digits	240 x 128	8 lines (40 characters per line)	240 x 128	240 x 128	7" Touch, 800 x 480	240 x 128		10,1" Touch 1920 x 1200	240 x 128	240 x 128	240 x 128
	Type: 16 million colours (f), monochrome (m)	m	m	m	m	m	f	m		f	m	m	m

Subject to modification due to technical progress | August 2022

Optimized for A3 vertical

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