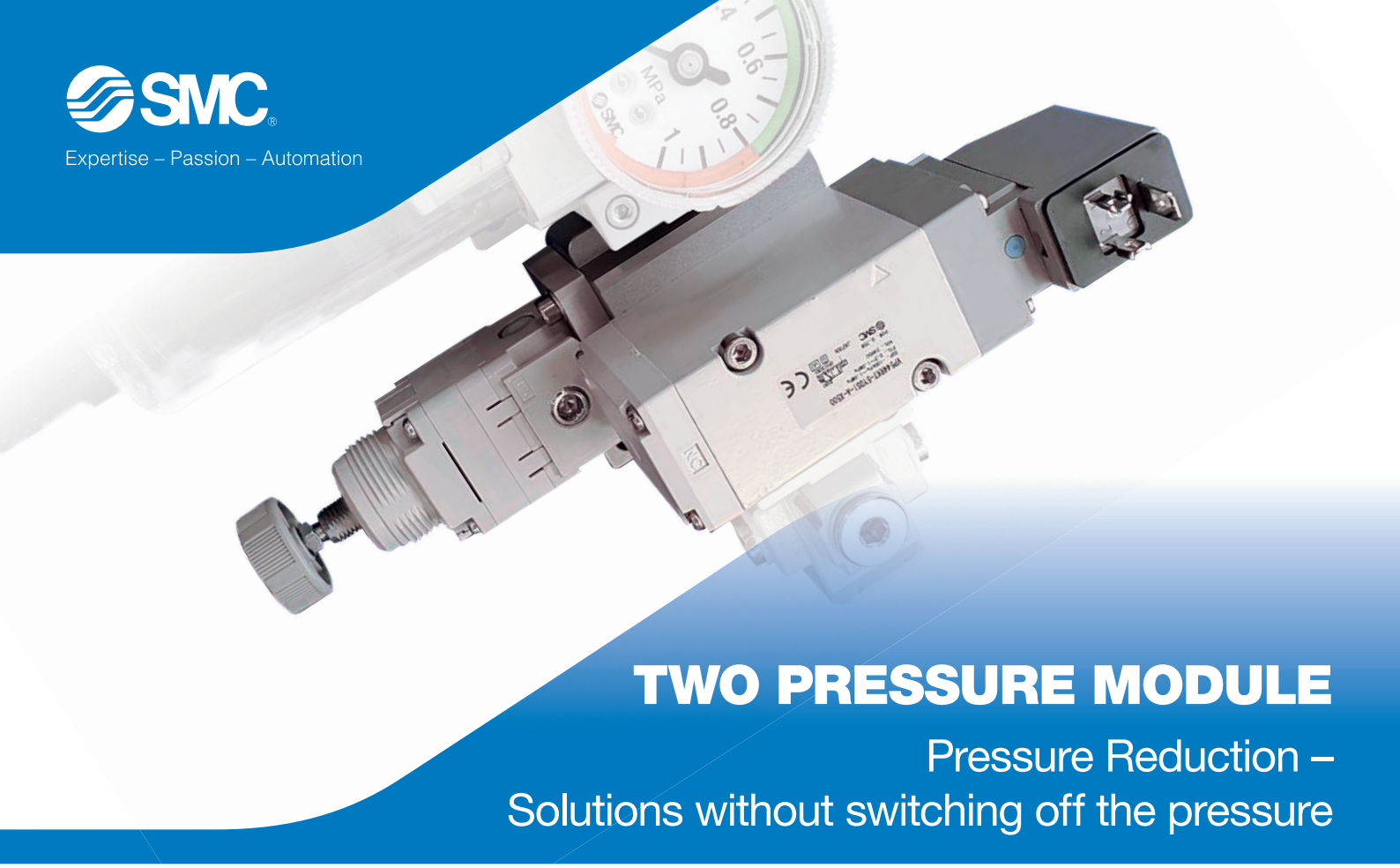
SMC

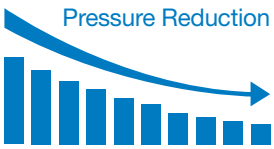
Expertise – Passion – Automation



TWO PRESSURE MODULE

Pressure Reduction – Solutions without switching off the pressure

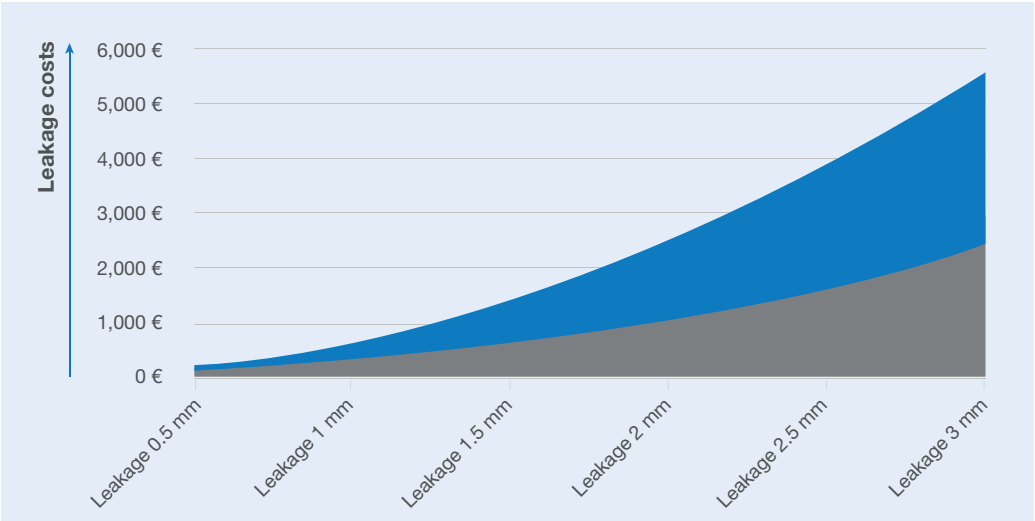
LESS PRESSURE – LESS LEAKAGE – LESS COST



The SMC TWO PRESSURE MODULE automates energy saving in compressed air systems. It is suitable for reducing the compressed air consumption in new and existing systems by reducing the operating pressure, for example during product change, production disturbance, changeover or idle times.

What this means for you: Because of the reduced pressure provided by the TWO PRESSURE MODULE, less compressed air is lost through leaks, drying, cleaning, and cooling applications. This means you reduce your compressed air costs in the long term.

Leakage costs vs. 6 bar – 2 bar:



- Maximum savings through pressure reduction from 6 to 2 bar
- Leakage costs at 2 bar

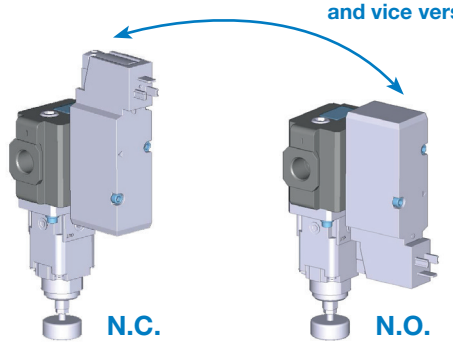
Leakage costs a year 24/365; 20°C; Compressed air costs: 0.02 €/Nm³

Energise Your Efficiency

How to order / specification

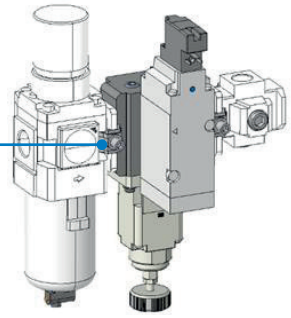
Part number	Port size	N.C.	N.O.	Setting range of second pressure
AC30-NC-2-CEY30009	3/8"	●		0.01 to 0.2 MPa
AC30-NO-2-CEY30009	3/8"		●	0.01 to 0.2 MPa
AC30-NC-4-CEY30009	3/8"	●		0.01 to 0.4 MPa
AC30-NO-4-CEY30009	3/8"		●	0.01 to 0.4 MPa
AC40-NC-2-CEY30010	1/2"	●		0.01 to 0.2 MPa
AC40-NO-2-CEY30010	1/2"		●	0.01 to 0.2 MPa
AC40-NC-4-CEY30010	1/2"	●		0.01 to 0.4 MPa
AC40-NO-4-CEY30010	1/2"		●	0.01 to 0.4 MPa

Easy changeover from N.C. to N.O. and vice versa



Main features TWO PRESSURE MODULE

- Flow rates up to approx. 3,600 Nl/min
- Stand-alone solution or can be integrated into FRL (ports 3/8“ und 1/2“)
- **Easy integration into AC30 or AC40 FRL by modular build**
- Simple electrical control → on / off signal
- Second pressure setting up to 2 bar or up to 4 bar
- Easy changeover from N.C. to N.O. and vice versa



Overview: SMC solutions for pressure reduction

Picture	SMC	Port size (P-, A- ports)									Max. Flow rate [Nl/min]	Connection	Max. second pressure setting [MPa]	Modular integration in SMC-FRL
		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"				
	AC30-CE			●							2,300	24 V DC	0.01 to 0.4	Yes
	AC40-CE				●						3,600	24 V DC	0.01 to 0.4	Yes
	VEX130				●						3,800	Input / output signal	0.01 to 0.9	Yes
	VEX150				●	●	●				9,800	Input / output signal	0.01 to 0.9	No
	VEX170						●	●			17,000	Input / output signal	0.01 to 0.9	No
	VEX190								●	●	36,300	Input / output signal	0.01 to 0.9	No
	ITV1000	●	●								200	Input / output signal	0.005 to 0.9	Yes
	ITV2000		●	●							1,500	Input / output signal	0.005 to 0.9	Yes
	ITV3000		●	●	●						4,000	Input / output signal	0.005 to 0.9	Yes

Real-life example: facility with permanent leakage

Operating pressure:	6 bar
Equivalent leakage size Ø:	3 mm
Operating hours per day:	24 h
Operating days per year:	365 Days
Compressed air costs:	0.02 €/Nm³
Production time:	50 %
Idle time:	50 %
Leakage costs at 6 bar:	5,580 €/Year
Leakage costs at 2 bar:	2,390 €/Year

TWO PRESSURE MODULE:
Pressure reduction during the idle time to 2 bar

28% Savings = 1,592 €/Year

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