### XYP 3: Low-pressure test unit

#### Areas of application

Operational testing and modification of measuring range of controllers in the RLP, RLE and ASV ranges.

#### **Features**

- Simulation of actual value and setpoint
- Display of control output pressure
- Adjustable low-pressure source enables simulation of actual values of other low-pressure units
- Plastic housing suitable for wall or top-hat rail mounting (rail EN 60715)
- Compressed-air connections with Rp 1/8" female thread
- Complies with directive 97/23/EC Art. 3.3 on pressure equipment

#### **Technical description**

- Supply pressure 1.3 bar ± 0.1
- Setting accuracy 5%

Type	Actual-value signal x <sub>i</sub> Low-pressure source		Setpoint signal X <sub>S</sub> Volume flow		Weight kg
XYP 3 F001		5500 Pa 1)	a ¹) 0,21,0 bar ≙ 20100% <b>ў</b>		0,4
XYP 3 F002		1100 Pa	0,21,0 bar ≙ 20100% <b>∛</b>		0,4
Pressure supply 2)		1,3 bar ± 0,1		Connection diagram	A03209
Output pressure		01,3 bar		Dimension drawing	M297503
Air consumption	F001	48 l <sub>n</sub> /h		Fitting instructions F001	MV 7327
	F002	76 l <sub>n</sub> /h		F002	MV 7339
Setting accuracy x <sub>i</sub> <sup>3)</sup> 5%					

#### **Accessories**

# 0297502 000 Bag with fitting material

- 1) Conversion kit (1...100 Pa) included.
- 2) See Section 60 on regulations concerning the quality of supply air, especially at low ambient temperature.
- 3) For more accurate testing, check the setting  $x_i$  with a fine-pressure meter.
  - The percentage stated is based on 100% volume flow.

#### Operation

The whole functional capability of this test unit is divided into several separate functions. These are described in the diagram on the front plate.

#### Actual-value simulation x<sub>i</sub>

Using the  $x_i$  adjuster, the low-pressure signal (1...100 Pa for RLP 100 or 5...500 Pa for RLP 10, 20) can be created at the (+) connection. For accurate adjustment, a fine-pressure meter can be connected up to the (–) connection.

#### Setpoint simulation X<sub>s</sub>

Using the  $X_s$  adjuster, the setpoint signal can create 20...100% of the volume flow (corresponds to 0,2...1.0 bar) at connection 6 and indicate this on the left-hand manometer.

#### Output pressure p<sub>2</sub>

The controller output pressure  $p_2$  (control signal) can be indicated, via connection 2, directly on the right-hand manometer.

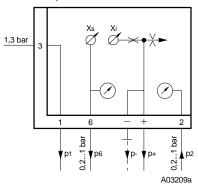
#### Supply pressure p<sub>1</sub>

The test unit (connection 3) and the test object (connection 1) both have a supply pressure of 1,3 bar. Connection 1 must be closed off if the test object is electrical.



# Connection diagram

F001: p+ = 5...500 Pa F002: p+ = 1...100 Pa



3 = supply pressure 1,3 bar

1 = supply pressure to the test object

2 = output pressure from the test object 6 = setpoint  $X_s$ , 0,2...1,0 bar

- = connection for fine-pressure meter+ = actual value x<sub>i</sub> (low pressure)

## **Dimension drawing**

