











**VALVE MARKING:**



**Type and action:**

- pneumatic with direct action:	<b>P ; P1</b>
- pneumatic with reverse action:	<b>R ; R1</b>
- pneumatic with side-mounted handwheel	<b>P1B;R1B</b>
- pneumatic with top-mounted handwheel	<b>PN; RN</b>
- electric:	<b>E</b>
- manual	<b>20</b>

**Bonnet:**

- standard:	<b>1</b>
- extension:	<b>2</b>
- bellow seal:	<b>3</b>
- <b>ribbed</b>	<b>4</b>
- other	<b>X</b>

**Packing:**

- PTFE, braided	<b>A</b>
- PTFE, V type	<b>B</b>
- graphite, braided	<b>D</b>
- graphite, expanded	<b>E</b>

**Leakage class:**

- basic: class II	<b>2</b>
- tight (special) cl. VI	<b>6</b>

**Valve plug:**

- balanced	<b>7</b>
------------	----------

**Choke cages:**

- no choke cages	<b>0</b>
------------------	----------

**Plug characteristics and type:**

- linear	<b>L</b>
- equal percentage	<b>P</b>
- quick opening	<b>S</b>
- other	<b>X</b>

**Body material:**

- cast iron	<b>1</b>
- carbon steel	<b>3</b>
- stainless steel	<b>5</b>
- other	<b>X</b>

**MARKING EXAMPLE:**

Control valve type Z10 with pneumatic actuator reverse action with top mounted handweel, extension bonnet, packing: graphite: expanded, leakage class VI with equal percentage plug, body material carbon steel:

**RN-Z10-2E680P3**

Marking is shown on valve nameplate.

Additionally, it shows:

- nominal size [DN],
- nominal pressure [PN],
- max working temperature [TS],
- max working pressure [PS],
- test pressure [PT],
- flow ratio [Kvs],
- plug stroke [H],
- plug stroke fluid group [1 or 2],
- serial number and year of manufacture.

**OTHER ACTUATORS:**

1. Pneumatic actuators type P/R or P1/R1 POLNA S.A production.
2. The handwheel type 20 from Zakłady Automatyki POLNA S.A.
3. Other electric or electro-hydraulic actuators

Selection of linear drives should be agreed on with Zakłady Automatyki "POLNA" S.A.

Detailed information and technical data of actuators – according to separate catalogue sheets.

For detailed information and technical parameters of specific actuators please refer to relevant datasheets.

**ORDERING:**

Orders must contain complete information that is necessary to calculate parameters of the valve in accordance with the technical data questionnaire. To find out the most suitable valves please refer to the staff of the Marketing and Sales Departments and Technical Department for assistance.