CONTROL VALVES BY ERHARD

FLOW CONTROL

FLOW CONTROL VALVE is the suitable for all throttling and regulation tasks in nominal sizes DN50 to DN150. The main component is the fixed slotted bush in which the control piston is moved and covers or releases the slot areas depending on the control position.

FLOW CONTROL valve is used particularly where flexible control is necessary, in conjunction with electronic controllers, pressure gauges, flow meters or float switches, or simpler with a handwheel.

MARKETS

- Water treatment
- Water transmission
- Water distribution network
- Desalination
- Industrial water applications
- Dams and hydro power
- Sewage network and treatment

TECHNICAL DATA

Fluid: drinking water, raw water

Nominal Diameter (DN): from 50mm to 150mm

Nominal Pressure (PN): 10 to 40 bar

Medium Temperature: up to 70°C

Body material: ductile iron

Coating: epoxy, enamel or special

Face to face dimensions acc. To EN 558 serie 1 and ISO 5752 serie 1

APPROVALS

DVGW, KTW-270, WRAS

ADVANTAGES

CAVITATION FREE

A valve seat integrated in the housing and sealed with O-ring guarantees bubble-tight sealing. The seal is outside the flow and cavitation area.

STANDARD VERSION

equipped with a mechanical visual indicator.

EASY AND INFREQUENT MAINTENANCE

just by cleaning or replacing the slotted bush and the piston on the valve without having to remove the valve from the pipeline.

CHARACTERISTICS

- **Available** in straight or angular pattern.
- **Design** with sturdy slotted bush, graduated control slots and long piston guide for safe energy conversion with good control characteristics.
- **Complete actuators portfolio is available –** Float control, electric, hydraulic, hydro-electric, pneumatic etc. The stem gearbox can be directly combined with handwheel, square stem cap or headstocks. The standardised connection is perfect to adapt to all types of actuator, even in retrofit.
- **Wide range of pressure** ratings allow adapted solution for numerous applications presenting cavitation risks.
- **Components** resistant to corrosion and ageing for robust and insensitive uses.

APPLICATION EXAMPLES

- **Flow Control** as reservoir feeding valve.
- **Flow Control** at the turbine inlet and in the turbine by-pass, or as quick-opening outlet valve of a turbine device.
- **Flow Control** as combined in-line regulating and safety valve.
- In-line isolating valve under high working pressure and flow velocity conditions.

GOOD TO KNOW

- Pre-sales and after-sales support departments help to define the right sizing.

FLOW CONTROL IN CUT

	DN	50	65	80	100	125	150
Performance chart	Kv (m^3/h)	36	59	87	140	210	280
	K	7.6	8.1	8.5	7.8	8.7	10.2
	Q normal (m^3/h)	11 - 28	18 - 47	27 - 72	43 - 113	65 - 175	97 - 255
	Q maximum (m^3/h)	42	70	108	170	265	380
Dimensions and Weights*	Length	230	290	310	350	400	480
	Weight with handweel	28	36	45	59	80	112

*For straight pattern, in mm and kgs