

Automatic control valve, ductile iron, DN 40-400, PN 16/10, flanges.



General

- Automatic control valve for pressure control, flow control, level control, solenoid-controlled valves.
- Designed to regulate fluid flows and optimize the performances of water distribution pipeline networks, irrigation systems, firefighting systems, water supply of civil and industrial facilities such as ships, airplanes, parks, pools, and much more, water treatment plants, whatever is necessary to control fluid flows.
- Face-to-face design according to ISO 3202 F1.
- Flanges according to EN 1092-2.

Options

- PN 25, PN 40.
- Pressure 1,0-13 bar.

Sizing table

- See Table 1.

Materials

DN	40	50	65	80	100	125	150	200	250	300	400
Body and cover in ductile iron GS 400-12	•	•	•	•	•	•	•	•	•	•	•
Obturator in stainless steel AISI 304/ductile iron GS 400-12	•	•	•	•	•	•	•	•	•	•	•
Diaphragm in reinforced Nylon cloth with double neoprene lining	•	•	•	•	•	•	•	•	•	•	•
Main shaft made in stainless steel	•	•	•	•	•	•	•	•	•	•	•
Plane gasket in NBR	•	•	•	•	•	•	•	•	•	•	•
Gasket holder in stainless steel AISI 304	•	•	•	•	•	•	•	•	•	•	•
Sealing seat in stainless steel/bronze	•	•	•	•	•	•	•	•	•	•	•

(• = standard)

Technical Data

DN	40	50	65	80	100	125	150	200	250	300	400
Pressure rating PN	16	16	16	16	16	16	16	10	10	10	10
Flanges pressure rating PN	16	16	16	16	16	16	16	10	10	10	10
Temperature max +70°C	•	•	•	•	•	•	•	•	•	•	•
Kvs-value m ³ /h	35	35	58,8	86,7	145,5	161	353	570	969	1294	1316
Pressure 1-20 bar	•	•	•	•	•	•	•	•	•	•	•

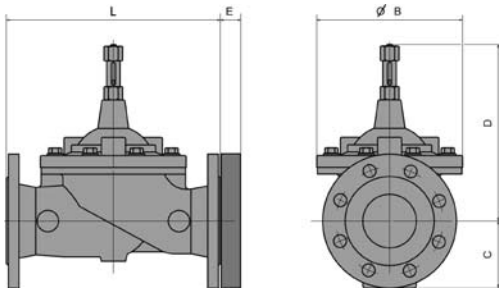
(• = standard)

Table 1

Flow (l/s)	Lox Headloss		Recommended		Irrigation Fire Protection
	Min	Max	Min	Max	Max
Velocity (m/s)	0,25	2	0,5	4,5	6
DN 50	0,5	2	0,5	4,5	6
DN 65	0,8	6,6	1,6	14,8	20
DN 80	1,2	10	2,4	20	30
DN 100	2	16	4	39	47
DN 125	2,5	18	5	42	52
DN 150	4	35	8	88	105
DN 200	8	63	16	155	188
DN 250	13	98	26	230	294
DN 300	18	140	36	315	420
DN 400	22	155	38	345	450

Automatic Control Valve

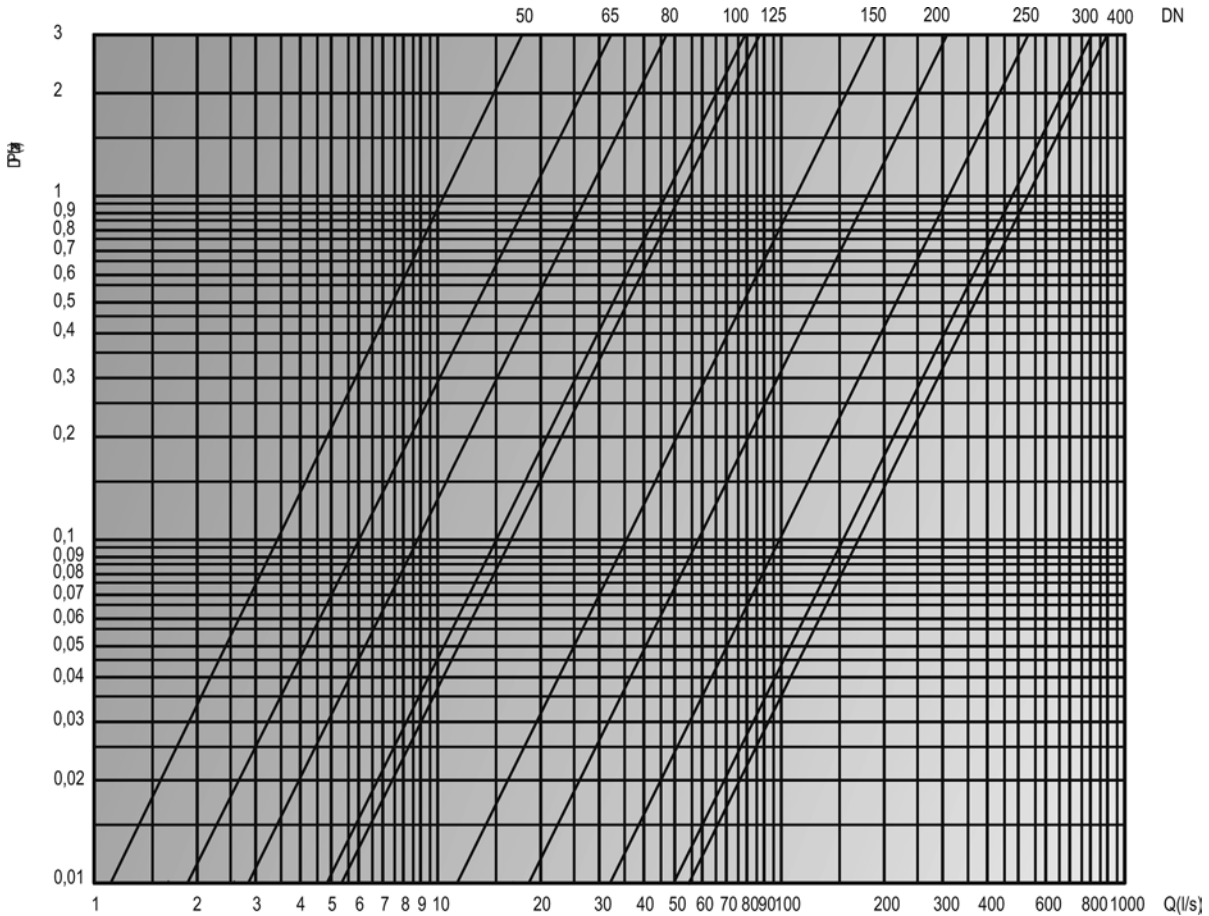
Dimensional Drawing



Dimensional Data (mm) and Weight

DN	40	50	65	80	100	125	150	200	250	300	400
L	230	230	290	310	350	400	480	600	730	850	1100
E	30	30	30	30	30	30	30	30	40	40	40
B	162	162	194	218	260	304	370	454	570	710	710
C	83	83	93	100	118	135	150	180	213	242	310
D	233	233	255	274	316	383	431	523	620	670	709
Weight (kg)	18	18	23,5	28	39	47	84	138	264	405	560

Pressure Drop Diagram



Markings

The valve is marked with DN, PN, materials, and flow direction arrow.

Mounting

Before installing the valve, proceed to an accurate cleaning of the pipes and conducts in contact with the apparatus itself.

Install a strainer before the valve.

Install gate valves before and after the valve.

Install the valve in horizontal position.

We recommend using steel-reinforced rubber seals to DIN EN 1514-1 Shape IBC. If you use raised face flanges, these seals are mandatory.

Maintenance

Proceed regularly with a cleaning of the strainer from dirt and deposits.

Plan maintenance inspection at least twice a year.

Order Number

DN	Art. No
40	7695040
50	7695050
65	7695065
80	7695080
100	7695100
125	7695125
150	7695150
200	7695200
250	7695250
300	7695300
400	7695400