WAGATE®

SLUICE GATE - SPK-TG FLOW REGULATOR DN 200-800

AREA OF USE: SPK-TG Flow Regulation offers a simple and reliable solution where the sluice gate is manually adjusted to a fixed opening position. This enables a predefined flow at a given upstream pressure.

The solution is particularly suitable for applications where a specific flow rate needs to be achieved at a certain water level. Even if the water level varies over time, the flow at the designated level remains constant.

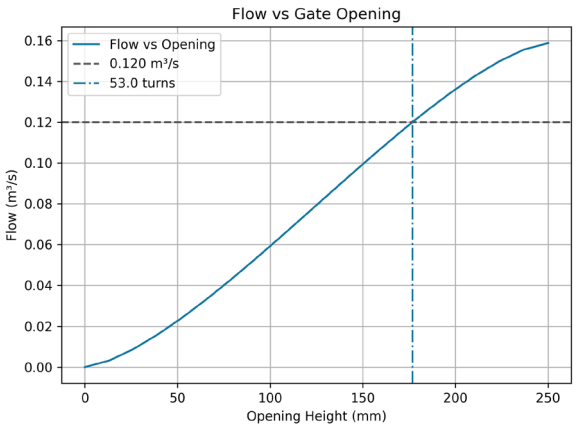
Thanks to its simple design, the solution requires neither electricity, sensors, nor control systems – providing reliable operation with low complexity.

ADVANTAGES WITH WAGATE SPK-TG FLOW REGULATOR:

- Simple and robust design
- Easy installation and operation
- Suitable for stationary systems without monitoring requirements
- Constant flow – remains unchanged until manual adjustment is made
- Operation without electricity, control systems, or sensors

OPERATION: The sluice gate opening position is indicated upon delivery according to the customer's specifications for the desired flow.. To ensure correct functionality, an application-specific flow table based on Wapro's calculation model is included, showing the flow achieved at different opening positions and upstream pressures.

If site conditions change over time – for example, upstream head or flow requirements – the table serves as a practical reference for manually adjusting the gate to a new opening position.



Ex. of flow table

MATERIAL:

Frame	EN 1.4404 (EN 1.4462)
Damper plate	EN 1.4404 (EN 1.4462)
Back plate	PEHD
Spindle	EN 1.4571 (EN 1.4462)
Spindle nut	Tin bronze (Cu2Sn12)
Seal against the damper plate	EPDM
Seal against the wall	EPDM sponge rubber

TECHNICAL DATA:

Sealing according to	DIN 19569-4 Table 1

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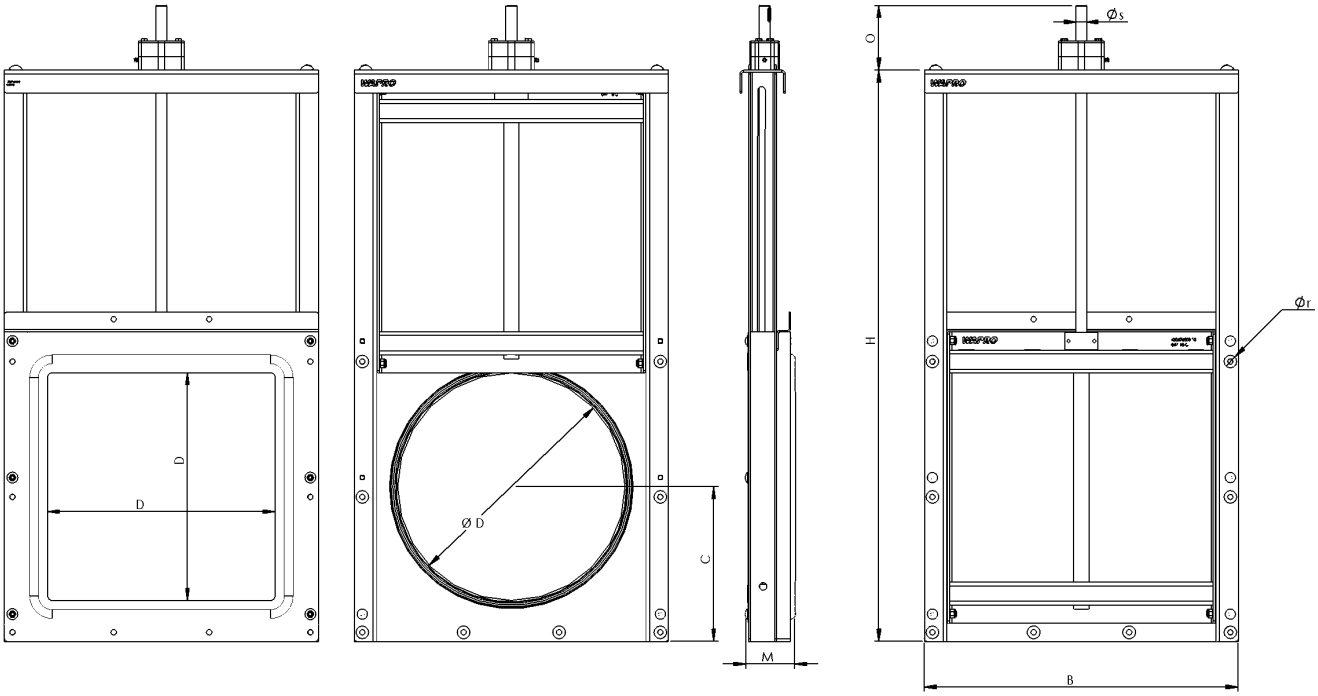

DIMENSIONS IN [MM]

DN	D	B	C	H	M	ØR	O	ØS	NM	TURNS TO OPEN	MIN* M³/S	MAX** M³/S	WEIGHT [KG]	MVS
200	200	352	160	573	93	7xØ12	126	18	4	50	0.051	0.102	21	6
250	250	402	185	673	87	7xØ12	146	18	6	63	0.079	0.159	22	6
300	315	481	240	848	92	8xØ12	142	18	7	75	0.126	0.252	30	6
400	400	588	280	1016	110	8xØ12	143	18	9	100	0.203	0.406	40	6
500	500	690	340	1255	111	10xØ12	142	22	12	100	0.317	0.635	60	6
600	630	820	410	1516	132	13xØ12	135	22	19	120	0.504	1.008	85	5
700	710	910	450	1676	136	13xØ12	193	25	24	140	0.640	1.280	105	3
800	800	1000	495	1857	136	13xØ12	203	25	30	160	0.812	1.625	125	3

Other dimensions on request. Reserves the right to changes.

* = Half-open position (opening = D/2)
** = Fully open position (opening = D)
Both correspond to possible flows at 2 m H_2O head pressure for standard diameters 200–800 mm.

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