WAGATE®

SLUICE GATE - SPK-TG FLOW REGULATOR NPS 8-32

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.

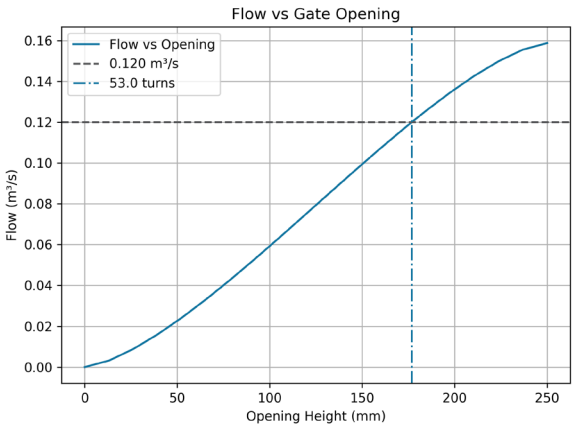
Thanks to its simple design, the solution requires neither electricity, sensors, nor control systems – providing reliable operation with low complexity.

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 iis 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:

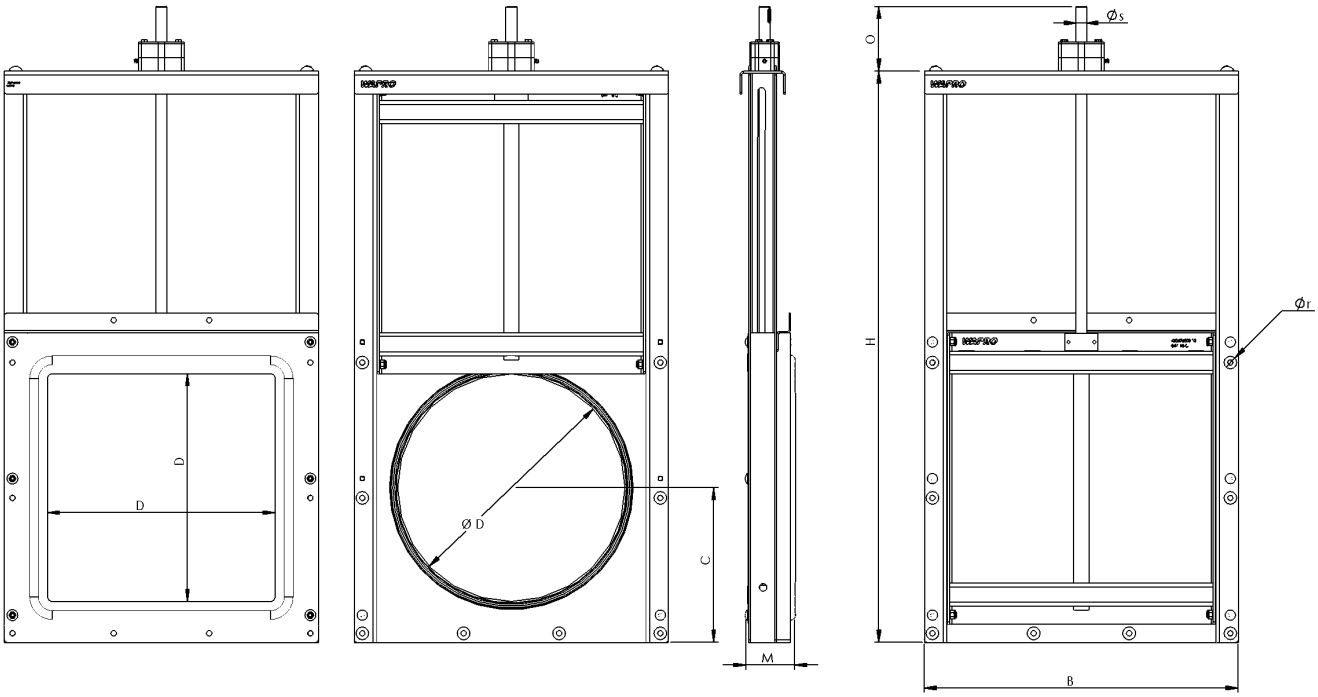
Frame	EN 1.4404 (EN 1.4462)
Damper plate	EN 1.4404 (EN 1.4462)
Back plate	PEHD
Spindle	EN 1.4571 (EN 1.4462)
Spindle nut	Tin bronze (Cu2Sn12)
Seal against the damper plate	EPDM
Seal against the wall	EPDM sponge rubber

TECHNICAL DATA:

Sealing according to	DIN 19569-4 Table 1

WAGATE®

SLUICE GATE - SPK-TG FLOW REGULATOR NPS 8-32



DIMENSIONS IN [INCHES]

NPS	D	B	C	H	M	ØR	O	ØS	NM	TURNS TO OPEN	MIN* M³/S	MAX** M³/S	WEIGHT [LBS]	MWC
8	7,87	13,86	6,30	22,56	3,66	0,28xØ0.47	4,96	0,71	4	50	0.051	0.102	46,3	6
10	9,84	15,83	7,28	26,50	3,43	0,28xØ0.47	5,75	0,71	6	63	0.079	0.159	48,5	6
12	12,40	18,94	9,45	33,39	3,62	0.31xØ0.47	5,59	0,71	7	75	0.126	0.252	66,1	6
16	15,75	23,15	11,02	40,00	4,33	0.31xØ0.47	5,63	0,71	9	100	0.203	0.406	88,2	6
20	19,69	27,17	13,39	49,41	4,37	0.39xØ0.47	5,59	0,87	12	100	0.317	0.635	132,3	6
24	24,80	32,28	16,14	59,69	5,20	0.51xØ0.47	5,31	0,87	19	120	0.504	1.008	187,4	5
28	27,95	35,83	17,72	65,98	5,35	0.51xØ0.47	7,60	0,98	24	140	0.640	1.280	231,5	3
32	31,50	39,37	19,49	73,11	5,35	0.51xØ0.47	7,96	0,98	30	24,80	0.812	1.625	275,6	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 7,87–31,50 in.

wapro.com +1 888 927 8677 sales@wapro.com