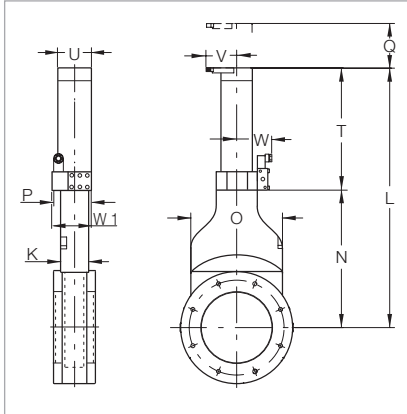
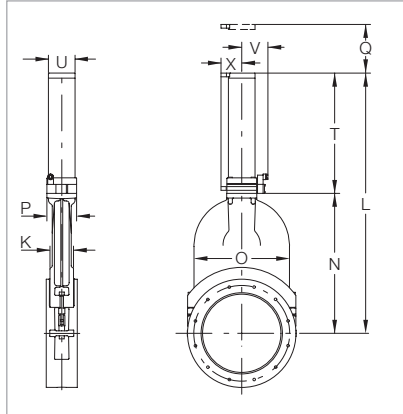


HV Gate Valves, ISO-F, Electropneumatically Operated



Dimensional drawing for the gate valves;
DN 63 ISO-F and DN 100 ISO-F



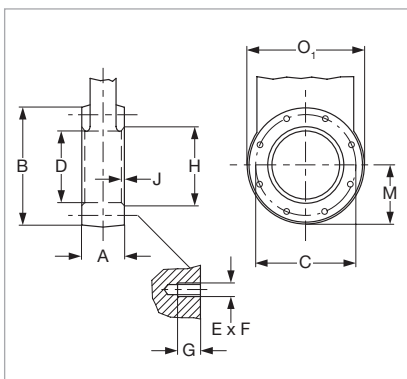
Dimensional drawing for the gate valves;
DN 160 ISO-F to DN 250 ISO-F

Advantages to the User

- Cost-effective gate valve for industrial applications with elastomer-sealed push gate feedthrough
- Aluminum body
- Slim and light-weight
- Low play in the locked state and low wear
- Double-acting
- With position indicator

Dimension Table

DN	ISO-F	63	100	160	200	250
K	mm	36	36	58	66	76
L	mm	341.5	424	547	688	843
N	mm	155.5	203.5	280	363.5	453
O	mm	100	140	192	240	308
P	mm	58	58	70	80	96
Q	mm	25	25	60	80	100
T	mm	186	221.5	267	324.5	390
U	mm	55	55	65	75	86
V	mm	56	56	71.5	76.5	84.5
W	mm	72	72	–	–	–
W ₁	mm	65.5	65.5	–	–	–
X	mm	59	59	57	62	67



Connection dimensions for ISO-F flanges
(HV Gate Valves)

Connections for ISO-F

DN	ISO-F	63	100	160	200	250
A	mm	60	60	70	80	100
B	mm	130	165	235	288	350
C	mm	110	145	200	260	310
D	mm	65	100	150	200	261
E x F		4 x M8	8 x M8	8 x M10	12 x M10	12 x M10
G	mm	12	12	16	16	16
H	mm	70	102	153	213	–
J	mm	3	3	5	5	–
M	mm	65.5	83	117.5	144	175
O ₁	mm	131	166	237	290	352

Technical Data

HV Gate Valve

DN 63 ISO-F DN 100 ISO-F DN 160 ISO-F DN 200 ISO-F DN 250 ISO-F

Tightness						
Body	mbar x l/s	$< 1 \times 10^{-9}$				
Valve seat	mbar x l/s	$< 1 \times 10^{-9}$				
Pressure range, abs.		1 x 10 ⁻⁷ mbar to 1.6 bar	1 x 10 ⁻⁷ mbar to 1.6 bar	1 x 10 ⁻⁷ mbar to 1.6 bar	1 x 10 ⁻⁷ mbar to 1.6 bar	1 x 10 ⁻⁷ mbar to 1.2 bar
High vacuum conductance	l/s	550	2000	6000	12000	22000
Max. Differential pressure at the valve gate	mbar	≤ 1600 in both directions	≤ 1600 in both directions	≤ 1600 in both directions	≤ 1600 in both directions	≤ 1200 in both directions
Max. differential pressure during opening	mbar	≤ 30				
Compressed air, min. / max.	bar	4 / 7				
Closing time / opening time	s	1.5	2	2	3	5
Service life until first maintenance	cycles	200,000	200,000	100,000	100,000	100,000
Degassing temperature						
valve	°C	120				
pneumatic drive	°C	80				
position indicator	°C	80				
pilot valve	°C	50				
Switching capacity for the position indicator	A	5 at 230 V AC; 3 at 50 V DC				
Installation orientation		any				
Weight	kg	3	4.5	9	18	25
Material						
Valve body		AlMg4.5Mn	AlMg4.5Mn	G-AlSi7Mg	G-AlSi7Mg	G-AlSi7Mg
Valve gate		AISI 304 (1.4301)	AISI 304 (1.4301)	AlMgSi1,	AlMgSi1,	AlMgSi1,
Mechanism		AISI 301 (1.4310), AISI 304 (1.4301), AISI 420 (1.4034)	AISI 301 (1.4310), AISI 304 (1.4301), AISI 420 (1.4034)	AISI 301 (1.4310), AISI 304 (1.4301), AISI 420 (1.4034)	AISI 301 (1.4310), AISI 304 (1.4301), AISI 420 (1.4034)	AISI 301 (1.4310), AISI 304 (1.4301), AISI 420 (1.4034)
Seal (head, gate)		Viton/Viton	Viton/Viton	Viton/Viton	Viton/Viton	Viton/Viton

Ordering Information

HV Gate Valve

DN 63 ISO-F DN 100 ISO-F DN 160 ISO-F DN 200 ISO-F DN 250 ISO-F

	Part No.	Part No.	Part No.	Part No.	Part No.
HV gate valve, electropneumatically operated					
24 V DC / 2.5 W	286 55	286 56	-	-	-
24 V DC / 6 W	-	-	215 643	215 644	215 645
230 V AC, 50 Hz / 7.1 W	286 45	286 46	215 653	215 654	215 655
Set screws with nuts and washers ¹⁾					
(Package each containing)	pieces				
	16	16	12	12	12

¹⁾ For dimensions E x F see table "Connections for ISO-F"