

## 1 Technical Data

	DN	10 KF	16 KF	25 KF	40 KF
Conductance at molecular flow					
Right-angle valve	ltr/sec.	1.6	3	12	32
Straight-through valve	ltr/sec.	–	1.8	7.5	19
Leak rate, valve body	mbar ltr/sec.			$< 1 \cdot 10^{-9}$	
Leak rate, valve seat	mbar ltr/sec.			$< 1 \cdot 10^{-9}$	
Weight incl. solenoid control					
Right-angle valve, Al body	kg	0.675	0.705	1.58	2.1
Right-angle valve, stainless steel body	kg	0.850	0.880	2.3	3.73
Straight-through valve, stainless steel body	kg	–	1.1	2.0	3.1
Range of nominal voltage					
110 V, 50/60 Hz models				90 to 140 V (100 V $\pm$ 10% - 127 V $\pm$ 10%)	
220 V, 50/60 Hz models				180 to 264 V (200 V $\pm$ 10% - 240 V $\pm$ 10%)	
Starting current, 110 and 220 V models	A	4/2.5	4/2.5	8/4	8/4
Holding current, 110 and 220 V models	A	0.6/0.3	0.6/0.3	1/0.5	1/0.5
Type of protection		IP 54	IP 54	IP 54	IP 54
Noise level				N to VDE 0411 Part 1, 0875 or DIN 57 875	
				Std. Spec. respectively	
Operation current				independent of line voltages, regulated within the rated voltage range	
Max. permissible pressures in valve body					
Pressure against valve disk	bar	1.1	1.1	1.1	1.1
Pressure on valve disk	bar	2.5	2.5	2.5	2.5
Differential pressure	bar	2.5	2.5	2.5	2.5
Max. permissible body temperatures					
Valve with solenoid/electronic control (currentless)	°C	150/50	150/50	150/50	150/50
Max. actuation frequency				see graphs, Figs. 4 and 5	
Service life				more than 200.000 operations	
Opening/closing times	ms	< 40/15	< 40/15	< 40/40	< 40/40
Remote control input				24 to 48 V dc, 2 to 4 mA	
Output for valve position indicator (floating)					
Max. contact potential	V	250	250	250	250
Max. switching current	A	1	1	1	1
Max. switching power	VA	30/60	30/60	30/60	30/60
Weight of electronic solenoid control	kg	0,260	0,260	0,260	0,260
Valves with electronic solenoid control, 220 V, 50/60 Hz					
Right-angle valve with aluminium body	Cat. No.	287 40	287 41	287 42	287 43
Right-angle valve with stainless steel body	Cat. No.	288 40	288 41	288 42	288 43
Straight-through valve with stainless steel body	Cat. No.	–	289 41	289 42	289 43
Valves with electronic solenoid control, 110 V, 50/60 Hz					
Right-angle valve with aluminium body	Cat. No.	287 50	287 51	287 52	287 53
Right-angle valve with stainless steel body	Cat. No.	288 50	288 51	288 52	288 53
Straight-through valve with stainless steel body	Cat. No.	–	289 51	289 52	289 53
External Control Option (FCO)	Cat. No.	287 90	287 90	287 90	287 90