

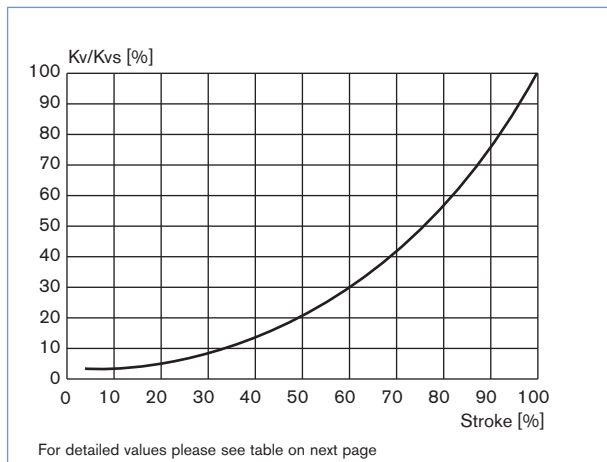
Technical data, continued

Technical data		
Port connections		
Weld end	ISO	EN ISO 1127 / ISO 4200
	DIN	DIN 11850 Series 2
	OD	BS 4825 part 1
	ASME	ASME BPE
	on request JIS	JIS 3459 or 3447
Mounting position		Any, preferably upright

Kvs values

Port size (tube)		Actuator size	Orifice DN (seat) [mm]												
ISO, DIN	BS, ASME														
[mm]	[inch]		[mm]	04	06	08	10	15	20	25	32	40	50	65	80
10	1/2"	80	0.5	1.2	2.0	2.7	–	–	–	–	–	–	–	–	–
15	3/4"	80	0.5	1.2	2.1	3.1	4.3	–	–	–	–	–	–	–	–
20	1"	80	–	–	–	3.2	5.2	7.1	–	–	–	–	–	–	–
25	–	80	–	–	–	–	5.3	7.2	12.0	–	–	–	–	–	–
32	1 1/2"	100	–	–	–	–	–	8.0	13.0	17.8	–	–	–	–	–
40	2"	100	–	–	–	–	–	–	13.6	20.2	23.8	–	–	–	–
50	2 1/2"	125	–	–	–	–	–	–	–	21.0	24.6	37.0	–	–	–
65	3"	125	–	–	–	–	–	–	–	–	17.5	26.0	52.0	–	–
		175	–	–	–	–	–	–	–	–	25.5	39.5	62.0	–	–
80	–	225	–	–	–	–	–	–	–	–	–	42.0	70.0	100	–
100	4"	225	–	–	–	–	–	–	–	–	–	–	75.0	115	140

Flow curve and description



Remarks on the flow characteristic

- Equipercentile parabolic plug for the orifices DN8...DN100
- Linear plug for the orifices DN4 and DN6
- Flow characteristic runs within DIN/IEC 534-2-4
- Theoretical control ratio (Kvs/Kvo):
 - 50:1 for the orifices DN8...DN100
 - 25:1 for the orifice DN6
 - 10:1 for the orifice DN4

- KVR value at 5% of stroke for DN > 10 mm
- KVR value at 10% of stroke for DN ≤ 10 mm

(KVR value = smallest Kv value at which the gradient tolerance to DIN/IEC 534-2-4 is still complied with)

Technical data, continued

Kvs values [m³/h]

Port size (tube)			Orifice (seat)		Actuator size	Stroke [%]											
ISO, DIN		BS, ASME				5	10	20	30	40	50	60	70	80	90	100	
[mm]	[inch]	[inch]	[mm]	[inch]	[mm]												
10	3/8"	1/2"	4	1/8"	80	0.04	0.05	0.10	0.16	0.22	0.27	0.32	0.36	0.40	0.44	0.50	
			6	3/16"	80	0.05	0.12	0.32	0.48	0.62	0.76	0.88	0.98	1.07	1.13	1.20	
			8	1/4"	80	0.06	0.07	0.09	0.12	0.18	0.26	0.42	0.61	0.92	1.50	2.00	
			10	3/8"	80	0.09	0.11	0.13	0.19	0.30	0.48	0.73	1.00	1.60	2.3	2.7	
15	1/2"	3/4"	4	1/8"	80	0.04	0.05	0.10	0.16	0.22	0.27	0.32	0.36	0.40	0.44	0.50	
			6	3/16"	80	0.05	0.12	0.32	0.48	0.62	0.76	0.88	0.98	1.07	1.13	1.20	
			8	1/4"	80	0.07	0.08	0.11	0.13	0.19	0.27	0.43	0.63	0.95	1.60	2.1	
			10	3/8"	80	0.09	0.11	0.15	0.19	0.31	0.49	0.75	1.10	1.70	2.5	3.1	
			15	1/2"	80	0.14	0.17	0.22	0.35	0.52	0.80	1.20	1.80	2.7	3.7	4.3	
20	3/4"	1"	10	3/8"	80	0.11	0.12	0.16	0.20	0.33	0.52	0.77	1.20	1.8	2.6	3.2	
			15	1/2"	80	0.14	0.17	0.22	0.35	0.52	0.80	1.20	1.80	2.9	4.0	5.2	
			20	3/4"	80	0.20	0.25	0.30	0.45	0.70	1.10	1.60	2.4	3.5	5.2	7.1	
25	1"	—	15	1/2"	80	0.14	0.17	0.22	0.35	0.52	0.80	1.20	1.80	2.9	4.1	5.3	
			20	3/4"	80	0.20	0.25	0.31	0.47	0.70	1.10	1.60	2.5	3.8	5.4	7.2	
			25	1"	80	0.35	0.38	0.65	1.00	1.50	2.2	3.4	5.1	7.0	9.4	12.0	
32	1 1/4"	1 1/2"	20	3/4"	100	0.22	0.25	0.35	0.50	0.75	1.10	1.60	2.5	3.8	5.8	8.0	
			25	1"	100	0.40	0.47	0.73	1.10	1.60	2.5	3.7	5.4	7.5	10.3	13.0	
			32	1 1/4"	100	0.48	0.60	0.85	1.30	2.1	3.1	4.5	6.8	10.2	14.0	17.8	
40	1 1/2"	2"	25	1"	100	0.40	0.50	0.75	1.10	1.70	2.6	3.8	5.6	8.0	10.7	13.6	
			32	1 1/4"	100	0.48	0.60	0.85	1.30	2.1	3.2	4.6	6.9	11.0	15.0	20.2	
			40	1 1/2"	100	0.60	0.70	1.10	1.70	2.7	4.0	6.0	9.2	13.8	18.2	23.8	
50	2"	2 1/2"	32	1 1/4"	125	0.48	0.60	0.90	1.30	2.1	3.2	4.6	6.9	11.6	16.0	21.0	
			40	1 1/2"	125	0.60	0.70	1.00	1.70	2.6	4.0	5.9	9.2	14.0	18.9	24.6	
			50	2"	125	0.90	1.10	1.90	2.9	4.5	6.8	10.5	15.5	22.0	29.3	37.0	
65	2 1/2"	3"	40	1 1/2"	125	0.45	0.65	0.95	1.30	1.90	2.8	4.00	5.50	7.8	11.7	17.5	
			50	2"	125	0.70	1.00	1.60	2.4	3.5	4.9	6.90	9.80	14.1	19.9	26.0	
			65	2 1/2"	125	0.80	1.30	2.1	3.2	5.5	9.1	14.7	24.5	37.6	45.6	52.0	
			40	1 1/2"	175	0.45	0.55	0.85	1.30	2.0	3.1	4.60	6.80	10.7	17.2	25.5	
			50	2"	175	0.75	0.90	1.50	2.3	3.5	4.9	7.1	11.0	17.5	26.0	39.5	
			65	2 1/2"	175	1.10	1.40	2.1	3.2	4.9	8.0	12.0	18.5	31.5	46.5	62.0	
80	3"	—	50	2"	225	0.85	1.00	1.50	2.3	3.5	5.0	7.1	10.5	16.0	25.0	42.0	
			65	2 1/2"	225	1.40	1.70	2.5	3.8	5.7	8.2	12.2	19.5	32.5	50.0	70.0	
			80	3"	225	2.1	2.6	4.2	7.0	10.5	16.0	25.0	40.0	60.0	83.0	100	
100	4"	4"	65	2 1/2"	225	1.40	1.70	2.6	3.8	5.7	8.3	12.6	20.0	32.0	51.0	75.0	
			80	3"	225	2.1	2.6	4.3	7.0	11.0	17.0	26.5	44.0	65.0	89.0	115	
			100	4"	225	3.2	3.9	5.7	9.0	13.5	20.5	32.0	51.0	83.0	118	140	