

## Technical data, continued

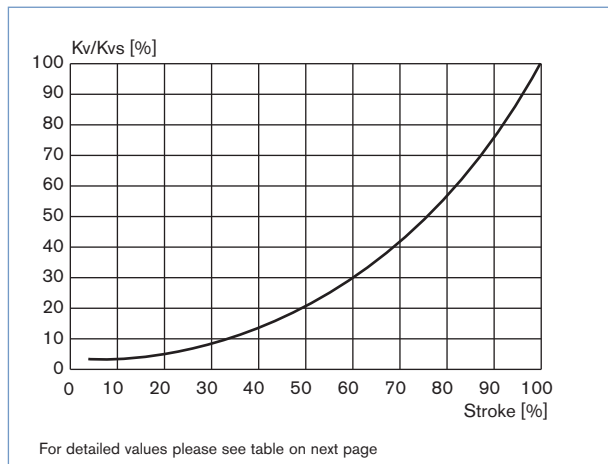
Technical data		
<b>Port connections</b>		
<b>Flange</b>	DIN	• DIN EN 1092-1 (DIN 2634 R <sup>2)</sup> face-to-face EN 558-1 (DIN 3202)
	ANSI	• ASME B16.5 RF2) Class 150 face-to-face EN 558-2 (ISA S75.03)
	JIS	• JIS B2238 ordinary type JIS 10K RF <sup>2)</sup> face-to-face JIS B2002 series 20 (ANSI B16.10) (EN 558-2)
<b>Mounting position</b>		Any, preferably upright

<sup>2)</sup> Raised face (RF)

## Kvs values

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

## Flow curve and description



## Remarks on the flow characteristic

- Equipercetile 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 (flange)		Orifice (seat)		Actuator size	Stroke [%]										
					5	10	20	30	40	50	60	70	80	90	100
10	3/8"	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"	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"	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"	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"	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"	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"	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"	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