

Angle Seat Motor Valve 7110

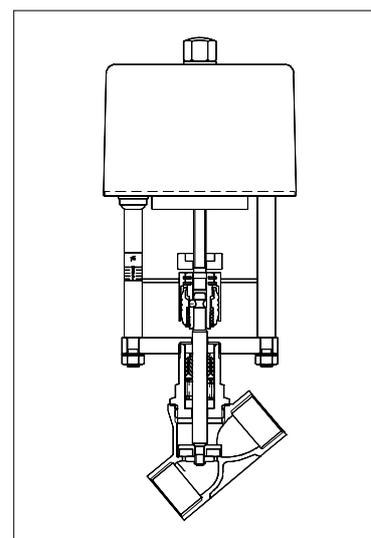
DN 15 up to DN 65 PN 16 - PN 40

Motor valve for on/off- and modulating operation for neutral and aggressive media.

- Compact design
- Unaffected by lightly contaminated media
- For operating temperatures from -30°C to +200°C
- Working pressure up to 40 bar
- Versatile actuator options

Technical Data Valve

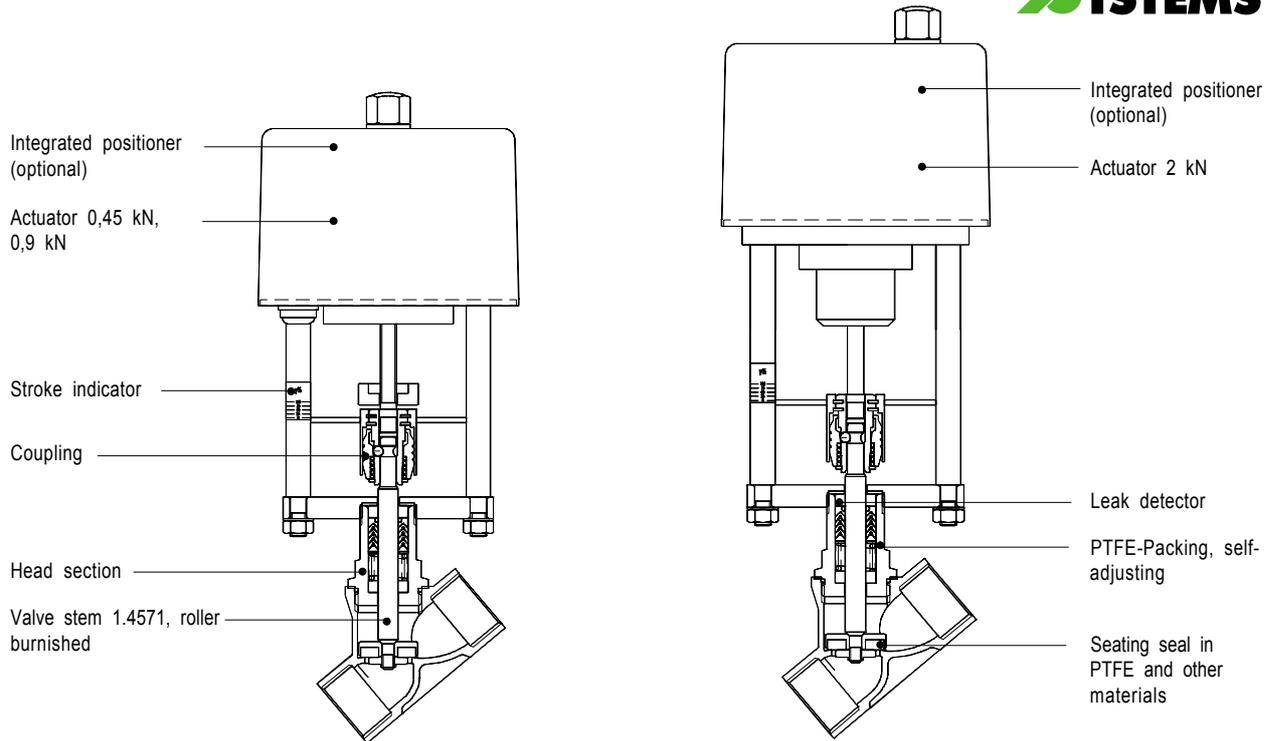
Body Material	Brass	Bronze	Stainless steel
Nominal Sizes	DN 65	DN 15 to DN 50	DN 15 to DN 65
Connections: Pipe thread acc. DIN 2999/ISO 228	2 1/2"	1/2" - 2"	1/2" - 2 1/2"
NPT thread	2 1/2"	1/2" - 2"	1/2" - 2 1/2"
Welding ends	-	-	1/2" - 2 1/2"
Nominal Pressure	PN 16	PN 16	PN 40
Adm. Operating Temperature	-30°C to 170°C	-30°C to 200°C	-30°C to 200°C
Ambient Temp.	-10°C to +60°C		
Viscosity	maximum 600 mm ² /s (600cSt)		
Vacuum	maximum 0.001bar abs		
Operating Pressure Packing Underneath	maximum 12 bar		



Technical Data Motor Actuator

Actuator Force	0.45 kN; 0.9 kN; 2.0 kN
Type of Duty acc. VDE 0530	S1 - 100 % ED
Net Connections	230 VAC, 50 Hz 24 VAC, 50 Hz
Power Consumption	0.45 kN: 2.6 W; 0.9 kN: 4.8 W; 2.0 kN: 6.6 W
Amb. Temperature	0 to 60 °C
Mounting Position	Motor not hanging downwards; (0.9kN any)
Protection Class (DIN 40050)	IP 43 (0.45 kN) optional: IP 65 (0.9 kN; 2 kN)

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Admissible Differential Pressures

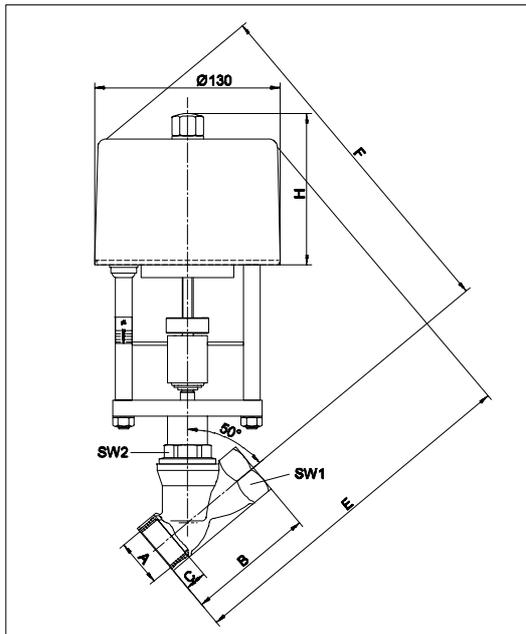
Nominal Size DN	Δp, max. bar				Actuator Force kN
	Brass On/off	Bronze On/off	Stainless Steel On/off	Stainless Steel Control	
15	-	16	18	16	0,45
15	-	16	40	16	0,9
20	-	8,0	8,0	8,0	0,45
20	-	16	23	16	0,9
20	-	16	40	16	2,0
25	-	4,0	4,0	4,0	0,45
25	-	13	13	13	0,9
25	-	16	35	16	2,0
32	-	7,5	7,5	7,5	0,9
32	-	16	21	16	2,0
40	-	4,5	4,5	4,5	0,9
40	-	13	13	13	2,0
50	-	3,0	3,0	3,0	0,9
50	-	9,0	9,0	9,0	2,0
65	1,5	-	1,5	-	0,9
65	4,5	-	4,5	-	2,0

K_{vs}-Values (Control Valve Version)

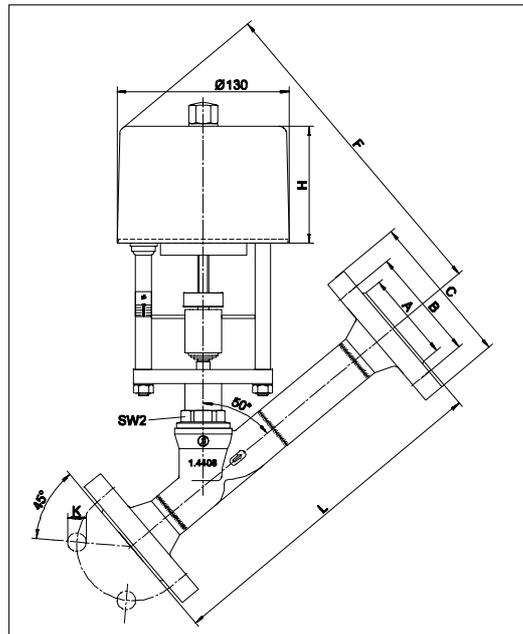
Flow Characteristic	linear						equal percentage					
	15	20	25	32	40	50	15	20	25	32	40	50
100 %	3,8	8,8	14	20	27	41	3	6	10	16	25	-
40 %	1,5	3,5	5,8	8	11	-	1,2	2,4	4	6	10	-
25 %	0,93	2,2	3,6	-	-	-	0,80	1,5	2,6	-	-	-
15%	-	-	-	-	-	-	0,46	-	-	-	-	-
10%	0,4	-	-	-	-	-	-	-	-	-	-	-
7,5%	-	-	-	-	-	-	0,23	-	-	-	-	-

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Dimensions and Weights



Type 7110



Type 7131

DN	Actuator kN	A Rp / NPT	B	C	E*		F*		Stroke	SW1	SW2	Kvs- values	Weight kg***	Running times sec.
					without positioner	with positioner	without positioner	with positioner						
15	0,45	1/2"	65	12	231	257	229	260	9,5	25	30	3,5	2,4	136
20	0,45	3/4"	75	13	235	261	238	269	14	31	30	8	2,5	200
25	0,45	1"	90	15	244	270	244	275	19	39	30	15	2,7	271
15	0,9	1/2"	65	12	253	279	261	292	9,5	25	30	3,5	2,6	54
20	0,9	3/4"	75	13	263	289	264	295	14	31	30	8	2,8	80
25	0,9	1"	90	15	266	292	267	298	19	39	30	15	3,0	109
32	0,9	1 1/4"	110	17	295	321	271	302	21	48	30	24	3,4	120
40	0,9	1 1/2"	120	19	298	324	281	312	24	55	30	35	3,7	137
50	0,9	2"	150	21	312	338	295	326	29(24)	68	32	55	4,3	166/137
65	0,9	2 1/2"	180	25	331	357	313	344	29(24)	85	41	93	6,1	166/137
20	2,0	3/4"	75	13	281	307	285	316	14	31	30	8	3,1	62
25	2,0	1"	90	15	286	312	286	317	19	39	30	15	3,3	84
32	2,0	1 1/4"	110	17	310	336	300	331	21	48	30	24	3,7	93
40	2,0	1 1/2"	120	19	319	345	304	335	24	55	30	35	4,0	107
50	2,0	2"	150	21	334	360	309	340	29(24)	68	32	55	4,6	129/107
65	2,0	2 1/2"	180	25	347	373	332	363	29(24)	85	41	93	6,4	129/107

Different Dimensions and Weights 7131

DN	Ac- tua- tor	A	B	C	E*		F*		K	L**	N	Weight kg***
					w/o Positioner	with Positioner	w/o Positioner	with Positioner				
15	0,45	45	65	95	273	299	229	260	14	230	4	4,1
20	0,45	58	75	105	280	306	238	269	14	260	4	4,7
25	0,45	68	85	115	284,5	310,5	244	275	14	260	4	5,4
15	0,9	45	65	95	295	321	261	292	14	230	4	4,3
20	0,9	58	75	105	308	334	264	295	14	260	4	5
25	0,9	68	85	115	307	333	267	298	14	260	4	5,7
32	0,9	78	100	140	337	363	271	302	18	300	4	7,2
40	0,9	88	110	150	342	368	281	312	18	300	4	8,3
50	0,9	102	125	165	359	385	295	326	18	350	4	10,1
20	2,0	58	75	105	326	352	285	316	14	260	4	5,3
25	2,0	68	85	115	327	353	286	317	14	260	4	6
32	2,0	78	100	140	352	378	300	331	18	300	4	7,5
40	2,0	88	110	150	363	389	304	335	18	300	4	8,6
50	2,0	102	125	165	381	407	309	340	18	350	4	10,4

* Considering the dismantling length H dimensions E increase by 64 mm (90 mm) and F by 77 mm (107 mm)

** Body length acc. DIN 3202, T1 R3

*** Weight with positioner: + 0.5 kg

() Values with positioner