

**Body:** two way form, for water and steam  
 Pressure range: PN16, PN25, PN40  
 Immersion length acc. to DIN EN 558, basic series 1  
 Flanges acc. to DIN EN 1092-1/2 type 21  
 Spindle sealing: spring-loaded PTFE-V-ring unit  
 for media temperatures up to 250°C  
 Alternatively: graphite-packing  
 for media temperatures up to 400°C  
 Internal parts: stainless steel, replaceable seat rings  
 Flow characteristic: equal percentage (partially modified)  
 Positioning ratio: 30:1 (up to 50:1)  
 Leakage: < 0,01% Kvs

**Actuator:** with manual emergency operation  
 and load dependent limit switches  
 Thrust: 2000 N  
 Power input: 12 VA  
 Alternatively: 4000 N / 28 VA (appendix ...c)  
 5500 N / 28 VA (appendix ...d)  
 Power supply: 230V/50...60Hz  
 Optionally: 115V/50...60Hz, 24V/50...60Hz, 24VDC  
 Motor rating standard acc. to DIN EN 60034-1: S1 – 100%  
 Protection class acc. to DIN EN 60529: IP65

**Accessories, special types:**  
 Add. limit switches load dependent (see page 49e)  
 Add. signal switches travel dependent (see page 49w)  
 Feedback potentiometer (see page 49f)  
 Integrated positioner for max. 40mm stroke (see page 49sr)  
 Integrated process controller (see page 49r)  
 Feedback signal 4-20mA / 0-10V  
 Actuator heater (on request)  
 Other positioning speed (on request)  
 Other reduced Kvs- values (on request)  
 Soft sealing for max. 200°C (on request)  
 Perforated plug (on request)  
 Weld-on ends (on request)  
 Flange drillings acc. to ANSI / JIS (on request)



**Order text:**

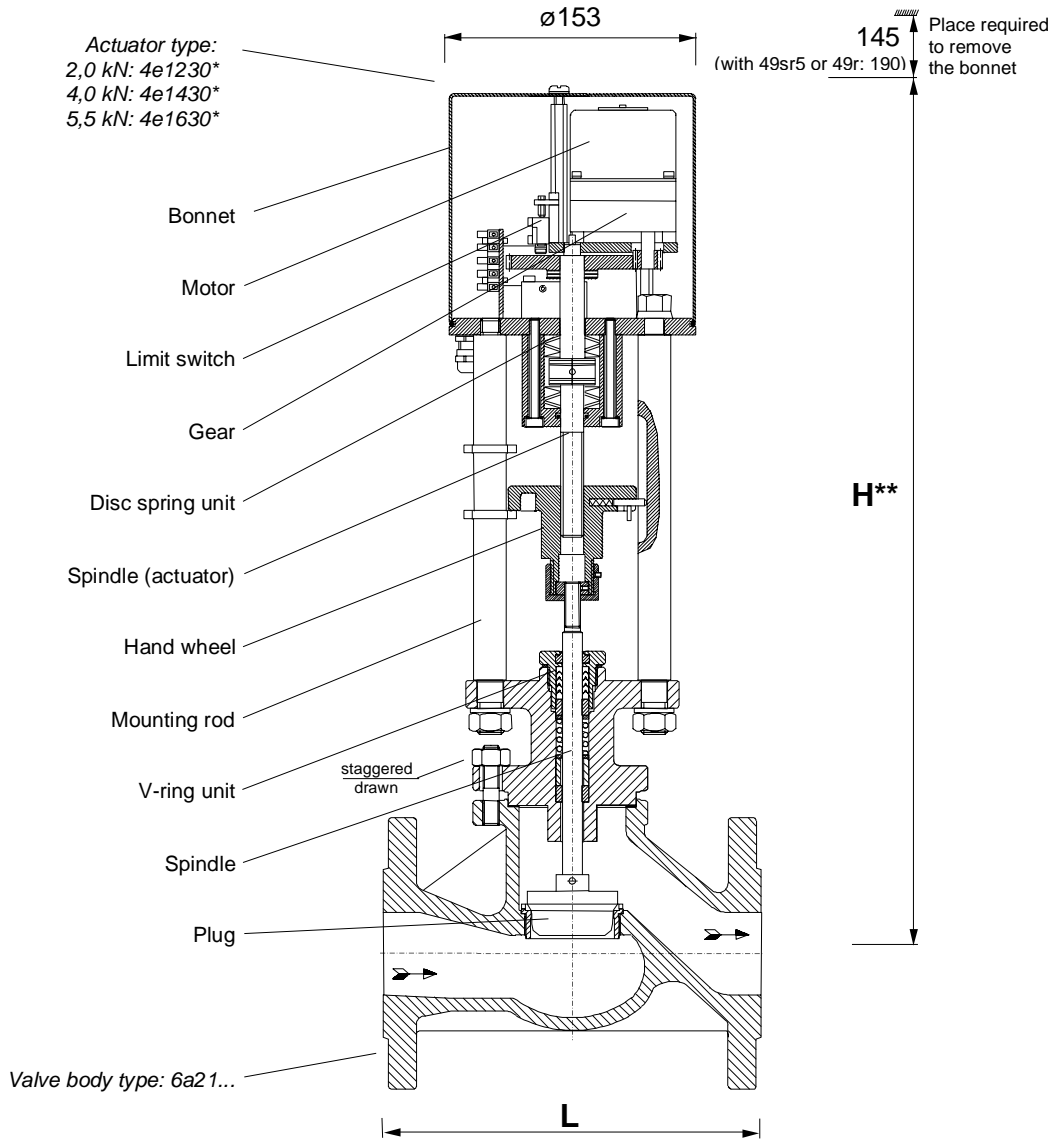
Motor control valve in two way form  
 Material . . . , PN . . . , DN . . . , Kvs . . .  
 Spindle sealing with PTFE-V-ring unit  
 Power supply . . . , closing pressure . . . bar  
 List-No.: PN16: 421 4 . . . , PN25: 421 5 . . . , PN40: 421 7 . .  
 Accessories: . . .

**Pressure-temperature ratings acc. to DIN EN 1092-1/2:**

by:		-10...50	100	150	200	250	300	350	400	°C*
PN16	EN-GJS-400-18-LT	16	16	15,5	14,7	13,9	12,8	11,2	-	bar
PN25	EN-GJS-400-18-LT	25	25	24,3	23	21,8	20	17,5	-	bar
PN40	GP240GH+N	40	37,3	34,7	30,2	28,4	25,8	24	23,1	bar

\* = max. 250°C for spindle sealing with PTFE-V-ring unit

DN	List-No.			Kvs m³/h	Stroke mm	Pos. time sec	Closing pressure (bar)		
	PN16	PN25	PN40				2000N	4000N	5500N
65	421 406.	421 506.	421 706.	63	30	99	3,4	9,1	13,4
	421 456.	421 556.	421 756.	40	20	66	6,6	16,0	23,1
	421 476.	421 576.	421 776.	25	20	66	10,8	25,2	36,0
80	421 408.	421 508.	421 708.	100	30	99	2,0	5,8	8,6
	421 458.	421 558.	421 758.	63	20	66	3,4	9,1	13,4
	421 478.	421 578.	421 778.	40	20	66	6,6	16,0	23,1
100	421 410.	421 510.	421 710.	160	30	99	1,1	3,5	5,4
	421 460.	421 560.	421 760.	100	30	99	3,4	9,1	13,4
	421 480.	421 580.	421 780.	63	22	73	3,4	9,1	13,4
125	421 412.	421 512.		230	60	198	0,5	2,1	3,3
	421 412_140a.	421 512_140a.		140	35	116	1,1	3,5	5,4
	421 412_100a.	421 512_100a.		100	35	116	2,0	5,8	8,6
150	421 415.	421 515.		330	60	198	-	1,3	2,1
	421 415_250a.	421 515_250a.		250	50	165	0,5	2,1	3,3
	421 415_150a.	421 515_150a.		150	35	116	1,1	3,5	5,4



DN	65	80	100	125	150
Height $H^{**}$	556	557	564	760	775
Length L	290	310	350	400	480
Weight kg	35	37	48	101	121

\* = only for stroke up to 40mm; actuators for stroke 50-60mm: 4e1266 (2kN), 4e1466 (4kN) and 4e1666 (5,5kN)  
 \*\* = add. 45mm for actuators with positioner 49sr5 or controller 49r

**Electrical wiring:**

