

Control Valves

Series 2000

Heavy Duty valve 2 way



Technical data

Size (DN)	DN 15 — 150
Pressure rating	PN16, PN40 ANSI 300
Connections	Flanges UNI/DIN PN16, PN40 Flanges ANSI 300
Type sealing	Metallic (Class IV - V), Soft (Class VI)
Characteristic	Equalpercentage (eqp%)
Action	Pneumatic with diaphragm (supply max 3,5 bar)
Temperature	from -196 to +350 °C

Description

The Series 2000 “Heavy Duty” control valve offers superior performance in nearly all types in liquid and gaseous services within a wide temperature range. Due to the modular body construction the valves can easily be upgraded to special applications. The Series 2000 is the industry choice for a reliable and tough control valve. All Burocco valves are delivered after testing and calibration and ready for a long utilize, without maintenance.



Options

- ⇒ Characteristic linear
- ⇒ Soft seal
- ⇒ High temperature extension (finned bonnet)
- ⇒ Extension (- 60 / - 100 °C)
- ⇒ Cryogenic extension (- 196 °C)
- ⇒ Bellows seal (double wall PN16, triple wall PN40)
- ⇒ Flanges can be drilled to ANSI 150 but
with face to face and rating according to DIN
- ⇒ Full stainless steel actuator for corrosive environment
- ⇒ 3-way (mixing or diverting) valves (see brochure 2003)
- ⇒ Low Noise
- ⇒ Stroke limiter
- ⇒ Handwheel for emergency operation
- ⇒ Valve positioners
- ⇒ Limit switches
- ⇒ Position feedback
- ⇒ Airset
- ⇒ Electric linear actuators
(230 V AC, 110/115 V AC, 24 V AC/DC)

Flow rate coefficient (CV)

DN	CV					
15	4	2,5 - 1,5	1 - 0,5	0,3 - 0,1	-	-
20	7	4	2,5 - 1,5	1 - 0,5	0,3 - 0,1	-
25	12	7	4	2,5 - 1,5	1 - 0,5	0,3 - 0,1
32	18	12	7	4	2,5 - 1,5	1 - 0,5
40	28	18	12	7	4	2,5 - 1,5
50	48	28	18	12	7	4
65	72	48	28	18	-	-
80	105	72	48	28	-	-
100	160	105	72	48	28	-
150	300	210	160	105	-	-

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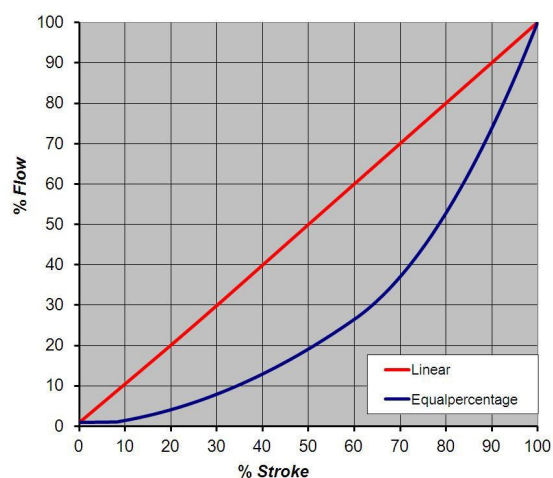
Heavy Duty valve 2 way



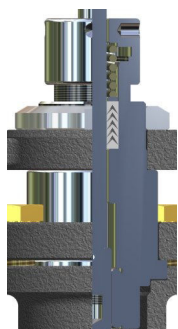
Materials	
Valve body*	Nodular cast iron GGG 40 (PN16) Carbon steel ASTM A216WCB Stainless steel ASTM CF8M
Trim (plug - seat)	316L / 17-4PH / 316L+Stellite / Hastelloy / Monel
Stem	316L / Hastelloy / Monel
Packing	PTFE, PTFE/CG, graphite, special
Body gasket	SIL C4500, NOVAPHIT, PTFE, special
Acuator	FE (epoxy varnish) Stainless steel
Yoke	GGG 40 (epoxy varnish) Stainless steel

* Special body material on request

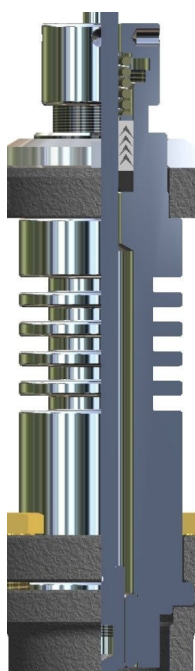
Control characteristic



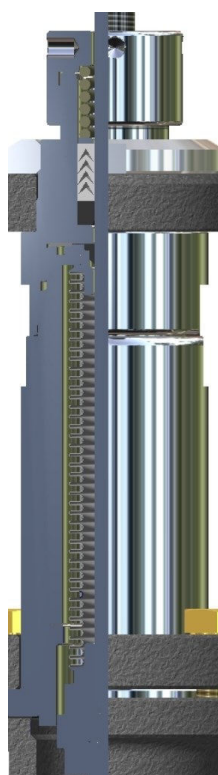
Bonnet specifications (temperatures limit employment)



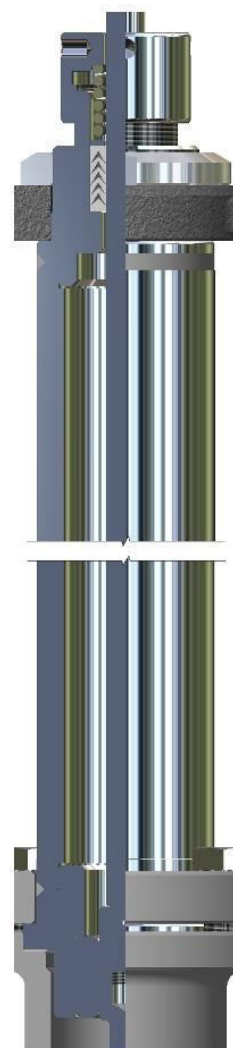
Standar (-30°C / +250 °C)



Finned (-30°C / +350 °C)



Bellows (-100°C / +350 °C)



Criogenic (-196°C / +180 °C)

KLINGER reserves the right to make improvements without prior notice 12/16

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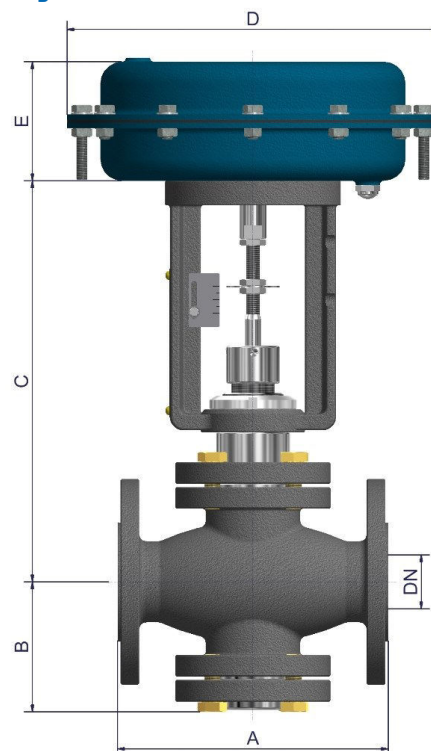
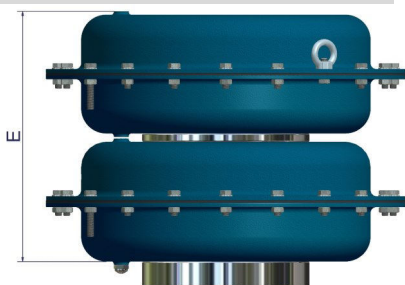
Heavy Duty valve 2 way



Dimensions (mm) and weight (kg) serie 2000 -

UNI/DIN PN16/40
ANSI 150

Special actuator double for DN100/150



Actuator S430 DOUBLE	DN100	DN150	
	S430	S430	S430 HP
E	270	310	390
Indicative weight*	98	207	223

Dimensions

DN	A	B	C						D	E
			Standard	-60 °C (extension)	-100 °C (extension)	-200 °C (criogenic)	High.Temp. (finned)	Bellows		
15	130	96	297	359	434	729	382	403	205 / 275	88 / 100
20	150	96	297	359	434	729	382	403	205 / 275	88 / 100
25	160	96	297	359	434	729	382	403	205 / 275	88 / 100
32	180	96	297	359	434	729	382	403	275 / 340	100 / 135
40	200	96	297	359	434	729	382	403	275 / 340	100 / 135
50	230	100	297	359	434	729	382	403	275 / 340	100 / 135
65	290	137	333	395	470	765	418	439	340 / 430	135
80	310	137	333	395	470	765	418	439	340 / 430	135
100	350	159	350	412	487	782	435	456	430	135
150	480	233	495	-	642	990	642	On request	430 / 430 _{HP}	160 / 200

Indicative weight*

DN	15	20	25	32	40	50	65	80	100	150
kg	17 / 20	18 / 21	19 / 22	24 / 30	25 / 31	31 / 37	55 / 61	59 / 65	80	185 / 193

* without positioner, airset or other accessories

Extra weight with bonnet extension

DN	-60 / -100 °C	-200 °C	High Temp.	Bellows
15-50	+ 2	+ 3,5	+ 1	+ 1,5
65-100	+ 2	+ 4	+ 3	+ 2
150	+ 5	+ 15	+ 10	On request

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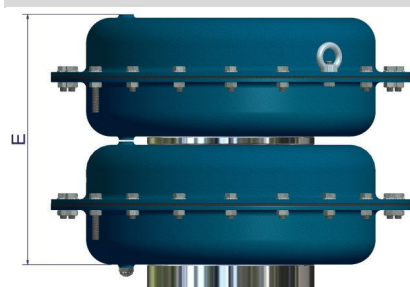
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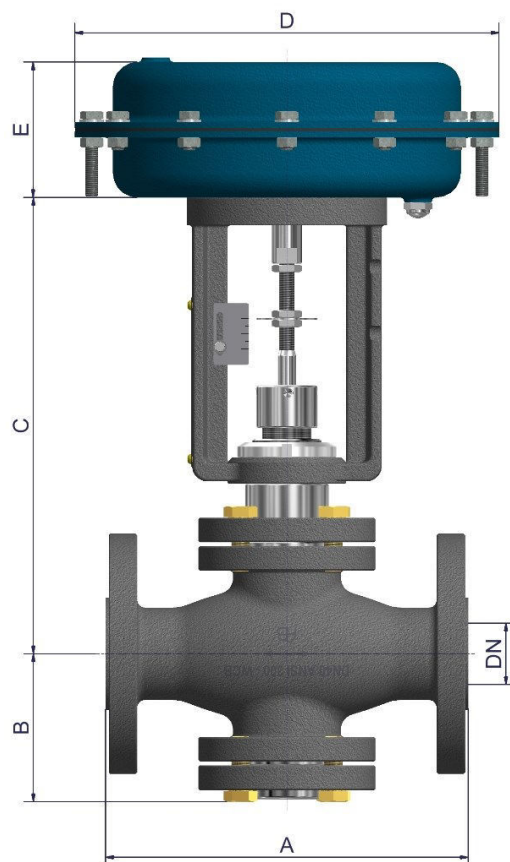


Dimensions (mm) and weight (kg) serie 2000 - ANSI 300

Special actuator double for DN100/150



Actuator S430 DOUBLE	DN100	DN150	
	S430	S430	S430 HP
E	270	310	390
Indicative weight*	100	217	233



Dimensions

DN	A	B	C						D	E
			Standard	-60 °C (extension)	-100 °C (extension)	-200 °C (criogenic)	High.Temp. (finned)	Bellows		
25	197	96	297	359	434	729	382	403	205 / 275	88 / 100
40	235	96	297	359	434	729	382	403	275 / 340	100 / 135
50	267	100	297	359	434	729	382	403	275 / 340	100 / 135
80	318	137	333	395	470	765	418	439	340 / 430	135
100	368	159	350	412	487	782	435	456	430	135
150	473	233	495	-	642	990	642	On request	430 / 430HP	160 / 200

Indicative weight*

DN	25	40	50	80	100	150
kg	19 / 22	25 / 31	32 / 38	60 / 66	82	195 / 203

* without positioner, airset or other accessories

Extra weight with bonnet extension

DN	-60 / -100 °C	-200 °C	High Temp.	Bellows
25-50	+ 2	+ 3,5	+ 1	+ 1,5
80-100	+ 2	+ 4	+ 3	+ 2
150	+ 5	+ 15	+ 10	On request

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