

Motor Valve compact 8230

GS 3 series DN 15 up to DN 50



Motor valve for control and switching of neutral through to highly aggressive media in process engineering, chemical industries and for plant equipment.

- Space saving wafer type construction
- Lowest possible weight
- Low operation noise level (quiet operation)
- Self adaption
- Operating pressures up to 40 bar
- Control of high differential pressures with small actuators
- Available also with "spring return"



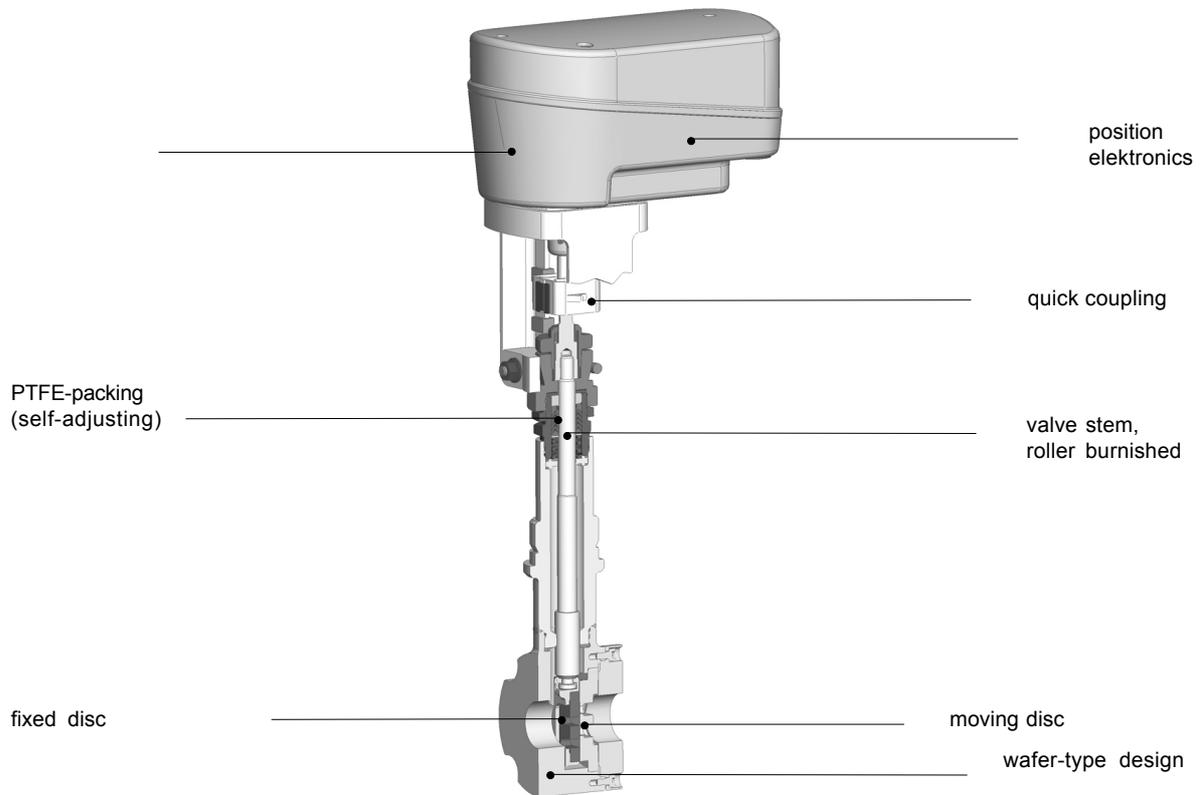
Technical Information Valve

Design	Flangeless design further versions see data sheet 8230-GS1	
Nominal size	DN 15 up to DN 50	
Nominal pressure acc. DIN 2401	PN 40 (fits also to PN 10-25)	
Nominal pressure acc. ANSI	ANSI 150	
	ANSI 300	
Media temperature	Carbon steel body	-10°C up to +300°C
	Stainless steel body	-60°C up to +350°C
Rangeability	30 : 1	
Leakage (% of Kvs)	Disc unit	Disc unit
	Carbon-stainless steel	STN 2
	< 0,0001	< 0,001

Technical Information Motor Actuators

Type of motor	BM24C	BM24C/I	BM24C/IOS	BM115C/IOS	BM230C/IOS	BM24	BM115	BM230
Function	Control	Control	Control	Control	Control	On/Off	On/Off	On/Off
Nominal voltage	24 V AC/DC	24 V AC/DC	24 V AC/DC	115 V AC	230 V AC	24 V AC/DC	115V AC	230 V AC
Set point	2 - 10 V	4 - 20 mA	3-step	3-step	3-step			
Load	100 kOhm	500 Ohm	500 Ohm	500 Ohm	500 Ohm	-	-	-
Position feedback	2 - 10 V	2 - 10 V	4 - 20 mA	4 - 20 mA	4 - 20 mA	-	-	-
external load	-	-	< 700 Ohm	< 700 Ohm	< 700 Ohm	-	-	-
limit switches	-	-	2 x	2 x	2 x	-	-	-
max. switching load	-	-	230V/130mA	230V/130mA	230V/130mA	-	-	-
Power consumption	3 W	3 W	3 W	4 W	4 W	3 W	6 W	6 W
Stroking time (standard)	3,50 s/mm	3,50 s/mm	3,50 s/mm	3,50 s/mm	3,50 s/mm	7,5 s/mm	7,5 s/mm	7,5 s/mm
Thrust	800 N							
Class of protection	IP 65							
Ambient temperature	-10°C up to +60°C							

Motor Valve compact 8230-GS3



Admissible Differential Pressures

Nominal size	maximum differential pressure [bar]					
	DN15	DN20	DN25	DN32	DN40	DN50
Unit carbon-stainless steel	40	40	40	40	30	20
STN2 Unit	40	37	28	20	14	8,5

Materials

Body	Carbon steel 1.0570 /1.0619	Stainless steel 1.4571 /1.4581
Head section	Carbon steel 1.0570 /1.0619	Stainless steel 1.4571 /1.4581
Packing	PTFE (carbon filled), spring 1.4310	
Actuating stem	Stainless steel, roller burnished	
Bellow	Stainless steel 1.4571	
Fixed plate	Stainless steel 1.4571, plated	STN2-disc
Sliding disc	Standard: special carbon material	STN2-disc
Coupling ring for discs	Stainless steel 1.4581	

Motor Stroking Times

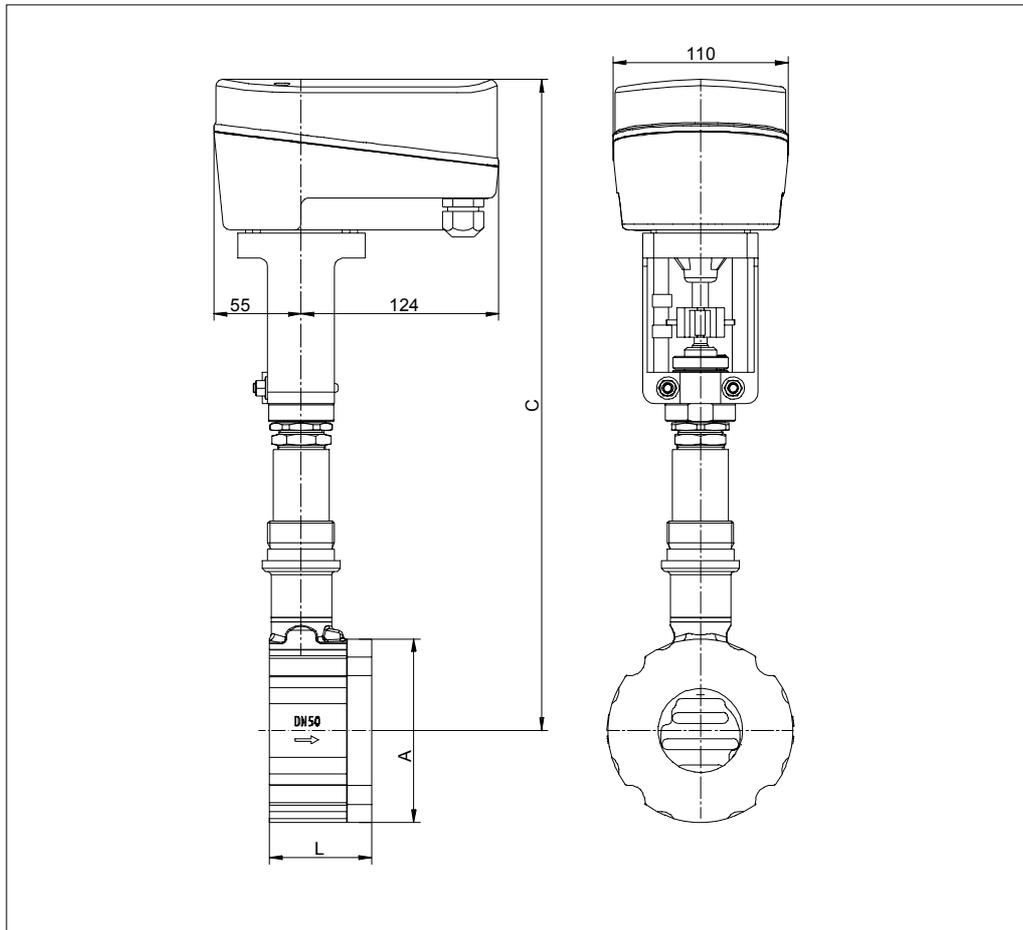
Stroking times for control actuators in sec.		
Setting	DN 15 - DN 40	DN 50
1,75 s/mm	11	14
3,5 s/mm	22*	29*
7,0 s/mm	44	58
14,0 s/mm	88	116

Stroking times for on/off-actuators in sec.		
Setting	DN 15 - DN 40	DN 50
7,5 s/ mm	47*	62*
4,5 s/ mm	28	37

*Standard

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Dimensions and Weights



DN	A	C	L	Stroke	Weight kg
15	64	385	56	6	3,8
20	72	390	56	6	4
25	82	395	56	6	4,3
32	86	400	56	6	4,5
40	99	405	56	6	4,8
50	116	415	64	8	6,3

Dimensions in mm