Single Seat Control Valve

Exact process control

The multi-purpose applicable single-seat control valves made by KIESELMANN are available both in linear and equal-percentage version. The fittings are based upon the hygienic and proven concept of the KIESELMANN KI-DS valves and that's why they are suitable for sensitive production fields of the food and beverage industry.

The modular design with the large nominal width range of between DN 25 and DN 125 and the functionally graded flow coefficients offers a maximum degree of flexibility and the right valve for each application.

Of course, all usual connection variants can be adapted. Whether the control characteristic is linear or of equal percentage, whether the seal is soft or metallic, KIESELMANN control valves guarantee a safe and exact process control at any time.

Flexible owing to replaceable seat concept

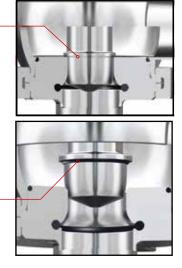
The essential function feature of this valve series is the hygienically designed replaceable seat concept. It allows in a very simple way the adaptation to changing process conditions, without having to carry out complex modification measures. The plug and seat can be replaced and reassembled with very little effort. Thus it is possible, for instance, to retrofit the soft or metallic sealing variants without any problems.

metallic sealing —

Advantages for your plant

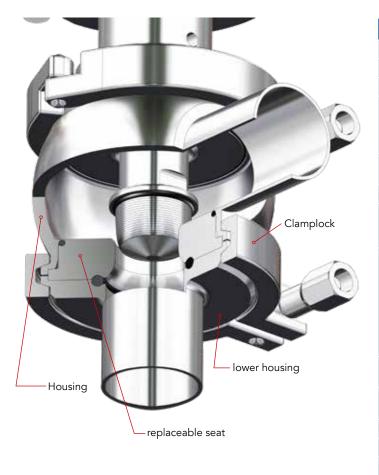
- Flexible replaceable seat concept thanks to clamp connection
- Linear or equal-percentage control
- Easy adaptation

elastomer sealing -





Control Valve



GENERAL DATA							
Series:	51xx						
Size:	DN 25-125						
Pressure step:	PN 16						
Permissible temp. of media: Cleaning (CIP): Sterilisation (SIP):	0° – 100° C 85° C 140° C						
Shape characteris- tics:	linear, equal percentage						
Position ratio:	50:1						
Shape of housing:	Angular shape, T shape, Y shape. Further connection shapes are available upon request						
Housing connec- tions:	Welding end EN 10357, Serie A DIN 11866, Reihe C Flange connection DIN 11853-2 DIN 11864-2 Clamp connection DIN 11853-3 DIN 11864-3 Further connection shapes are available upon request.						
Pipe classes:	Metric to EN 10357 OD to DIN 11866 series C						
Surfaces:	In contact with product: Ra \leq 0,8 μm housing electro-polished						
Shape of plug:	Parabolic plug						
Seat seal:	Soft or metallic						
Leckage classes soft seal: metal seal:	FCI 70-2, Class VI FCI 70-2, Class IV (0,01% of K _{vs})						
Spindle seal:	EPDM, HNBR, FKM, FDA, regulation (EC) 1935/2004						
Actuator options:	Piston actuator, diaphragm actuator, manu- al transmission						

K _v -Values and respective nominal widths																	
К	v	0.4	1.0	1.6	2.5	4	7	10	18	26	40	52	68	85	100	120	160
Cv		0.5	1.2	1.9	2.9	4.7	8.1	12	21	30	47	60	79	99	120	140	186
Seat-Ø [mm]		6	5	12		22		31	46		60		72		95	120	
Piston	[mm]	20 27															
DN	NPS*	● - Standard programme ○ - upon request															
25	1″	•	•	•	•	•	•	•									
40	1 ½″				•	•	•	•	•								
50	2"							•	•	•	•						
65	2 ½″								•	•	•	•	•				
80	3"									•	•	0	•	•	•		
100	4"										•	0	•	0	•	•	
125	-														•	0	•
* Special size acc. to DIN 11866 series C																	

* Special size acc. to DIN 11866. series C



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