Type D

Diaphragm chuck QUICK JAW CHANGE SYSTEMS

Main dimensions and technical data





Subject to technical changes

For more detailed information please ask for customer drawing

SMW-AUTOBLOK Type	D-210		D-260		D-315			
Mounting	Size	A5	A6	A6	A8	A8		
	Α	mm	210		260		315	
	В	mm	93.5		108		111	
	С	mm	106.5		120		125	
	C 1	mm	146.5		156		173	
Clamping range min./max.	D	mm	20-175 188 172		40-220		60-275	
	D 1	mm			227		275	
	E	mm			172	225	220	
	F	mm	104.8	133.4	133.4	171.4	171.4	
	G		M10	M12	M12	M16	M16	
	G 1		M26 x 1.5		M26 x 1.5		M30 x 1.5	
Jaw height	н	mm	52		57		62	
	J	mm	6		6		6	
	К	mm	40 49.4 185 28 7 24		48 53 185 28 7		48	
	Μ	mm					57	
	Ν	mm					185 32 7	
	P H6	mm						
	Q	mm						
	R	mm			24		29.5	
Piston stroke	S	mm	1.0		1.5		1.7	
Jaw stroke at distance H			1.0		1.1		1.2	
Draw pull min./max.*	F1	kN	0-25		0-25		0-25	
Draw pull for chuck open	F2	kN	30		30		30	
Moment of inertia		kg∙m²	0.16		0.45		0.75	
Weight without top tooling		kg	30		44		60	
Recommended actuating cylinders		Туре	SIN-DFR		SIN-DFR		SIN-DFR	

*Additional actuation force to the diaphragm spring clamping force applied by the clamping cylinder.

Advice: The max. allowed speed for the application is permanently marked on the corresponding top jaws and must not be exceeded. Advice: Please note, that it is important, that the cylinder force for pushing and pulling can be set to different values independently! Important: Never rotate the chuck without inserted jaws, otherwise the centrifugal force compensation mechanism will get damaged.

Clamping jaws Closed center rotating cylinder Installation

Type D

Diaphragm chuck QUICK JAW CHANGE SYSTEMS



Actuating cylinder SIN-DFR for diaphragm chuck Type D

Technical features

- Special cylinder to actuate the diaphragm chuck
- Large/small piston area for opening/ clamping
- Rotary unions for 1 or 2 media
- Linear positioning system LPS to monitor the piston stroke

Standard equipment

• Cylinder with kit for LPS-XS installation without LPS-XS position sensor



LPS see page 233

SIN-DFR-LPS-XS for rotary union 1 medium Id. No. 044860 (without rotary union*) SIN-DFR-LPS-XS with rotary union 2 media Id. No. 044861 (rotary union 2 media included)

Piston surface Pressure		Pull	Push	Speed	Leakage	Weight	Moment	Weight of	Weight of		
Α	В	Α	В	min./max.	min./max.	max.	at 30 bar 50°C	cylinder	of	rotary union	rotary union
pull	push	min/max			(36 bar max.)				inertia	1 medium	2 media
cm²	cm ²	bar	bar	kN	kN	r.p.m.	dm³/min	kg	kg∙m²	kg	kg
21	74	3-70	3-36	0.6/14	2.2-27	7000	1.5	9	0.016	0.4	1.5

* Please order separately

Installation

