

Semi-rotary drives DSR/DSRL

Peripherals overview and type codes

Mounting attachments and accessories				
	Description	DSR	DSRL	→ Page/Internet
1	Foot mounting HSR-...-FW	■	■	12
2	Freewheel unit FLSR-...-L/R	■	–	14
3	Flange mounting FSR	■	–	12
4	Push-on flange FWSR	■	–	13
5	Mounting kit WSR-...	■	■	17
6	Mounting kit WSR-12 ... 40	■	■	16
7	Mounting kit WSR-10/12-K	■	■	16
8	Micro switch S-3-BE-SW	■	■	19
9	Micro switch S-3-BE	■	■	19
10	Micro stem actuated valve SO-3-PK-3-B, S-3-PK-3-B	■	■	20
11	Proximity sensors SIEN	■	■	20
12	Push-in L-fitting QSL	■	■	qs
13	One-way flow control valve GRLA	■	■	20

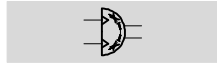
DSRL		–	10	–	180	–	P	–	FW								
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FESTO

Technical data

Function



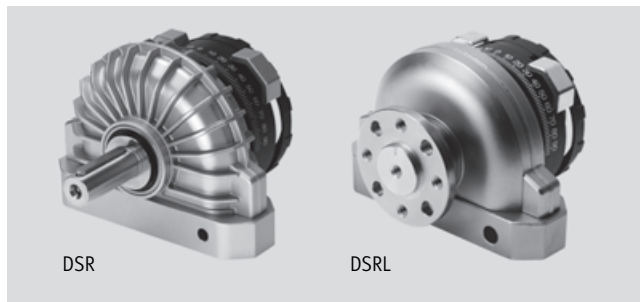
Variants

- With spigot shaft
- With hollow flanged shaft

- Ø - Diameter
10 ... 40 mm

- ≡ - Force
0.5 ... 20 Nm

- T - www.festo.com



General technical data						
Piston Ø	10	12	16	25	32	40
Pneumatic connection	M3	M5	M5	M5	G1/8	G1/4
Design	Semi-rotary actuator with vane drive					
Cushioning	Non-adjustable at either end					
Position sensing	Electrical					
	Pneumatic					
	Inductive					
Type of mounting	Via through-holes					
	Via accessories					
Mounting position	Any					
Max. swivel angle	0 ... 181 °		0 ... 184 °			

- ¶ - Note: This product conforms to ISO 1179-1 and to ISO 228-1

Operating and environmental conditions						
Piston Ø	10	12	16	25	32	40
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:--]					
Operating pressure [bar]	2.5 ... 8	2 ... 8	1.5 ... 8			
Temperature range ¹⁾ [°C]	-10 ... +60					

1) Note operating range of proximity sensors

Forces and torques						
Piston Ø	10	12	16	25	32	40
Torque at 6 bar [Nm]	0.5	1	2	5	10	20
Max. swivelling frequency ¹⁾ [Hz]	3					
Max. perm. radial load ²⁾ [N]	30	45	75	120	200	350
Max. perm. axial load ²⁾ [N]	10	18	30	50	75	120
Max. perm. mass moment of inertia ²⁾	Diagrams → page 8					

1) Please observe the max. permissible mass moments of inertia → page 8

2) On the drive shaft at maximum frequency

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Technical data

Ordering data				
Rotary actuator	Design	Ø [mm]	Part No.	Type
DSR-...-P				
	With spigot shaft	10	33297	DSR-10-180-P
		12	11909	DSR-12-180-P
		16	11910	DSR-16-180-P
		25	11911	DSR-25-180-P
		32	11912	DSR-32-180-P
		40	13467	DSR-40-180-P
DSRL-....-P-FW				
	With hollow flanged shaft	10	33296	DSRL-10-180-P-FW
		12	30654	DSRL-12-180-P-FW
		16	30655	DSRL-16-180-P-FW
		25	30656	DSRL-25-180-P-FW
		32	30657	DSRL-32-180-P-FW
		40	30658	DSRL-40-180-P-FW