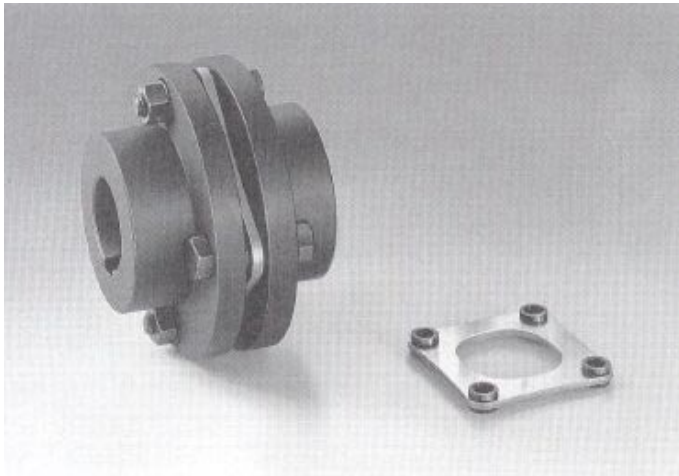


# SFS - S SERVOFLEX



- **Fewer parts for easy handling**  
The plate spring is a monoblock construction by caulking, allowing quick and correct mounting.
- **High rigidity**  
Very high torsional rigidity assuring accurate shaft rotation and ultra precision position control.
- **No backlash**  
Power is transmitted entirely by friction engaging, completely eliminating backlash.
- **All metallic**  
Entirely made of metals, featuring resistance to environmental factors such as high and low temperatures and dust.

## Specification

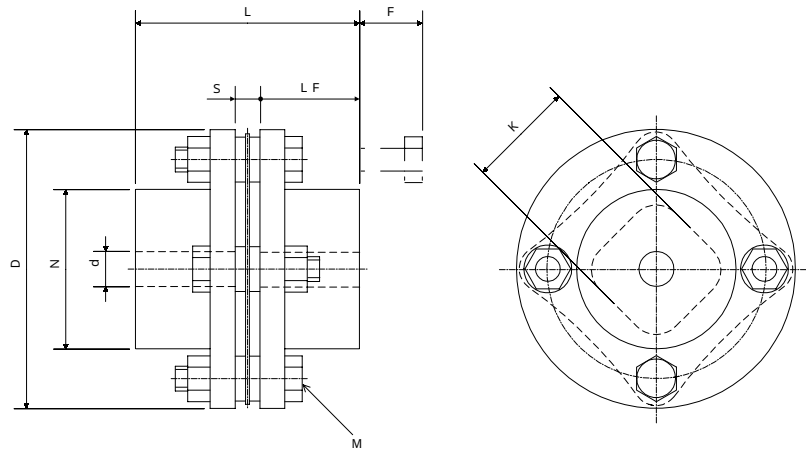
Model	SFS-05S	SFS-06S	SFS-08S	SFS-09S	SFS-10S	SFS-12S	SFS-14S
Permissible Torque [ N·m ]	20	40	80	180	250	450	800
Maximum Speed [ r/min ]	25000	20000	17000	15000	13000	11000	9500
Torsional Spring Constant [ N·m/rad ]	$16 \times 10^3$	$29 \times 10^3$	$83 \times 10^3$	$170 \times 10^3$	$250 \times 10^3$	$430 \times 10^3$	$780 \times 10^3$
Axial Spring Constant [ N/mm ]	43	45	60	122	160	197	313
<sup>1</sup> Inertia [ kg·m <sup>2</sup> ]	$0.11 \times 10^{-3}$	$0.30 \times 10^{-3}$	$0.87 \times 10^{-3}$	$1.6 \times 10^{-3}$	$2.6 \times 10^{-3}$	$6.5 \times 10^{-3}$	$9.9 \times 10^{-3}$
Maximum Permissible misalignment	Angular misalignment [ ° ]	1	1	1	1	1	1
	Axial Displacement [ mm ]	± 0.6	± 0.8	± 1.0	± 1.2	± 1.4	± 1.8
<sup>1</sup> Mass [ g ]	0.3	0.5	1.0	1.4	2.1	3.4	4.9

• Values marked <sup>1</sup> are those when bore diameter is maximum.

## ■ Ordering Information : Specify

SFS - S

# Design Types and Dimensions



Model	SFS-05S	SFS-06S	SFS-08S	SFS-09S	SFS-10S	SFS-12S	SFS-14S	
d 1· d 2	Pilot Bore	7	7	12	12	20	20	20
	Min	8	8	14	14	22	22	22
	Max	20	25	35	38	42	50	60
D	56	68	82	94	104	126	144	
N	32	40	54	58	68	78	88	
L	45	56	66	68	80	91	102	
LF	20	25	30	30	35	40	45	
S	5	6	6	8	10	11	12	
F	11	10	11	21	16	23	31	
K	24	30	38	42	48	54	61	
M	4-M5 × 22	4-M6 × 25	4-M6 × 29	4-M8 × 36	4-M8 × 36	4-M10 × 45	4-M12 × 54	

• Prepared bores are drilled bores.