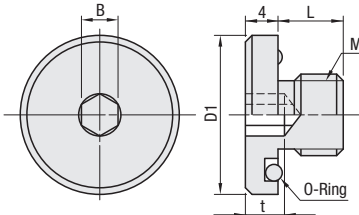


Seal Plugs / Lubrication-Free Seals

Oil Seals

Seal Plugs

FSPS



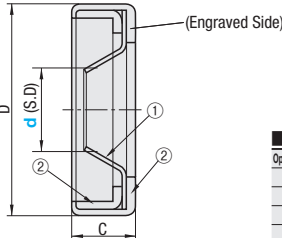
Operating Temperature Range: -40 ~ 200°C
Material: Body: EN 1.4301 Equiv.
O-Ring: Fluoro Rubber (H) Hardness Shore A75)
(JIS B2401 Class 4 D)

Part Number		M (Fine)	L	D1	B	t	O-Ring No.	Recommended Tightening Torque (N·m)	Mass (g)	Unit Price	
Type	No.									1 ~ 9 pc (s).	10~50
FSPS	8	M 8x1.0	7	16	5	3.5	P10	10.9	4		
	10	M10x1.0	8	19.5	5	4	P12.5	13.7	7		
	12	M12x1.5	12	21	6	5	P14	19.2	14		
	14	M14x1.5	12	23	6	5	P16	27.4	19		
	16	M16x1.5	12	25	8	6	P18	44.5	25		

Ordering Example
Part Number
FSPS10

Lubrication-Free Seals

MFHN



Conditions of Use

Operating Temperature Range	-60~200°C
Operating Pressure	0.03MPa or Less
Wind Velocity	30m/sec. or Less
Shaft Tolerance	h7 (or g6)
Shaft Coarseness	Ra:0.2~0.45µm Rz:0.8~1.8µm
Sealed Substance	High Temperature Vapor, Water, Chemicals, Oil

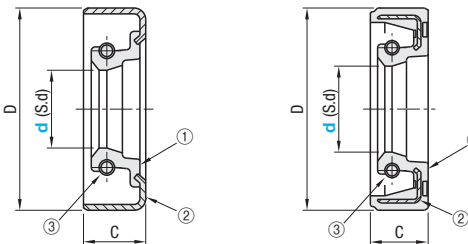
Type	Material		Applications
	① Resin Part	② Metal Part	
MFHN	Polytetrafluoroethylene (PTFE)	EN 1.4301 Equiv.	Rotary Motion

Part Number		D		C		Unit Price
Type	d					
MFHN	10	25	+0.09 +0.04	7.0	±0.3	
	12					
	15					
	20	40	+0.11 +0.05	11.0	±0.4	
	25					
	30					
	35					
	40	62	+0.14 +0.06	12.0		
	40					
	50					

Ordering Example
Part Number
MFHN25

Oil Seals - Single Lip

MUSB
MUSC



Conditions of Use

Operating Temperature Range	-25~120°C
Operating Pressure	0.03MPa or Less
Wind Velocity	10m/sec. or Less
Shaft Tolerance	h8 (or g6)
Shaft Coarseness	3S or Less
Sealed Substance	Oil, Grease

Type	Material			Applications
	① Oil Seal: Rubber Hardness	② Metal Ring	③ Spring	
MUSB	Nitrile Rubber (NBR): Hs70	EN 1.0330 Equiv.	SW-B	Rotary Motion
MUSC	Nitrile Rubber (NBR): Hs70	EN 1.0330 Equiv.	SW-B	Rotary Motion

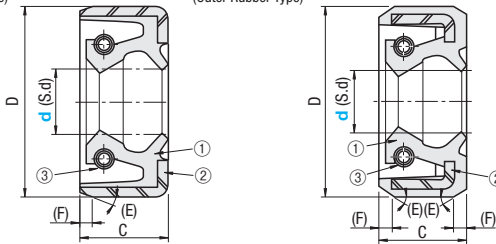
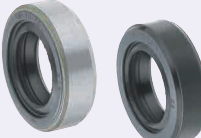
Part Number	d	D	C	Unit Price
Type				
MUSB	20	32	+0.11 +0.05 ±0.3	
	25	38		
	30	40		
	35	50		

Part Number	d	D	C	Unit Price
Type				
MUSC	10	20	+0.09 +0.04 +0.11 +0.05 ±0.3	
	12	22		
	15	35		
	20	35		
	25	40		
	30	42		

Ordering Example
Part Number
MUSC30

Oil Seals - Double Lip

MUDN
MUEN



Conditions of Use

Operating Temperature Range	-25~120°C
Operating Pressure	0.03MPa or Less
Wind Velocity	10m/sec. or Less
Shaft Tolerance	h8 (or g6)
Shaft Coarseness	3S or Less
Sealed Substance	Oil, Grease

Type	Material			Applications
	① Oil Seal: Rubber Hardness	② Metal Ring	③ Spring	
MUDN	Nitrile Rubber (NBR): Hs70	EN 1.0330 Equiv.	SW-B	Rotary Motion
MUEN	Nitrile Rubber (NBR): Hs70	EN 1.0330 Equiv.	SW-B	Rotary Motion

Part Number	d	D	C	(E)	(F)	Unit Price
Type						
MUDN	10	20	7	±0.3	30°	1
	12	25			20°	1.5
	15	25			30°	1
	20	32	8	±0.3	30°	1
	25	38			20°	1
	30	42			30°	1
	35	50			30°	1
	40	62	12	±0.4	30°	1
	45	62			30°	1
	50	65	9	±0.3	30°	1
					20°	1

Part Number	d	D	C	(E)	(F)	Unit Price
Type						
MUEN	10	20	7	±0.3	30°	1
	12	25			20°	1
	15	25			30°	1
	17	30	8	±0.3	30°	1
	20	32			30°	1
	25	38			20°	1
	30	42			30°	1
	35	50	8	±0.3	30°	1
	40	62			30°	1
	50	65	9		30°	1
					20°	1

Ordering Example
Part Number
MUEN10