

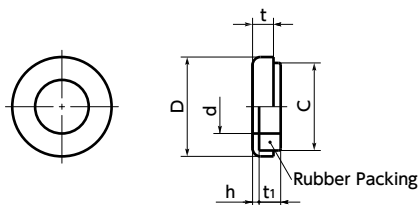


# SWS Seal Washers

WEB Selection Tool

WEB CAD Download

SUS Stainless steel



## ● Material/Finish

RoHS2 Compliant

	SWS	SWS-F	SWS-E	SWS-S
Main Body	SUS304	SUS304	SUS304	SUS304
Rubber Packing	NBR	Fluoro-rubber	EPDM	Silicone rubber



- Seal washer incorporating rubber packing in a stainless steel washer.
- Prevents air/liquid leakage from the seating surface of the screw head. Test results for JIS C 0920 protection degree IPX7 are available on the NBK website.
- During screw tightening, the rubber bonds with the screw thread to make the seal rather than slipping out of place.
- Four types of material are used in the rubber packing. They can be selected by the end symbol of the part number.

End Symbol	Rubber Packing Material	Characteristics	Allowable Operating Temperature
<b>No</b>	NBR	Standard	120°C
<b>F</b>	Fluoro-rubber	Chemical-proof/heat-resistance/ ozone resistance	200°C
<b>E</b>	EPDM	Weather resistance/water resistance/ ozone resistance	120°C
<b>S</b>	Silicone rubber	Heat-resistance/cold-resistance/ electrical insulation	180°C

## ● Application

Seal ring  
Oil hydraulic equipment / Pneumatic device

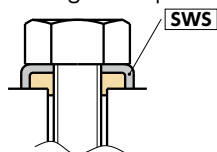
**SWS** Rubber Packing: NBR **SWS-F** Rubber Packing: Fluoro-Rubber

**SWS-E** Rubber Packing: EPDM **SWS-S** Rubber Packing: Silicone Rubber

Part Number	Part Number	Part Number	Part Number	Nominal	d	D	h	t	t <sub>1</sub>	C	Mass (g)	Qty per Pack
<b>SWS-3</b>	<b>SWS-3-F</b>	<b>SWS-3-E</b>	<b>SWS-3-S</b>	3	3.2	7	0.5	2.2	2.2	6.3	0.2	10
<b>SWS-4</b>	<b>SWS-4-F</b>	<b>SWS-4-E</b>	<b>SWS-4-S</b>	4	4.2	8	0.5	2.1	2	7.2	0.2	10
<b>SWS-5</b>	<b>SWS-5-F</b>	<b>SWS-5-E</b>	<b>SWS-5-S</b>	5	5.2	9.6	0.8	2.7	2.5	8.2	0.6	10
<b>SWS-6</b>	<b>SWS-6-F</b>	<b>SWS-6-E</b>	<b>SWS-6-S</b>	6	6.2	11.5	1	2.9	2.5	9.6	1	10
<b>SWS-8</b>	<b>SWS-8-F</b>	<b>SWS-8-E</b>	<b>SWS-8-S</b>	8	8.2	15.3	1	3.1	3	13.5	1.8	5
<b>SWS-10</b>	<b>SWS-10-F</b>	<b>SWS-10-E</b>	<b>SWS-10-S</b>	10	10.4	18	1.5	4	3.8	15.1	3.2	5
<b>SWS-12</b>	<b>SWS-12-F</b>	<b>SWS-12-E</b>	<b>SWS-12-S</b>	12	14	24	1.5	5	5	21.3	6.6	5
<b>SWS-16</b>	<b>SWS-16-F</b>	<b>SWS-16-E</b>	<b>SWS-16-S</b>	16	18.8	30	2	5.3	4.8	26.4	11	5

● The minimum order quantity is 1 piece. → P.xxxx

## ● Usage example



## ● Part number specification

### SWS-10-F

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Place order by a bag.  
Also sold separately from 1 piece up. → P.xxxx

Individual Sales → P.xxxx	Cleanroom Wash & Packaging → P.xxxx	Screw Length Adjustment → P.xxxx	Vibration Resistant → P.xxxx	Modification process for captive use → P.xxxx
Available / Add'l charge	Please feel free to contact us	Not Available	Not Available	Not Available