



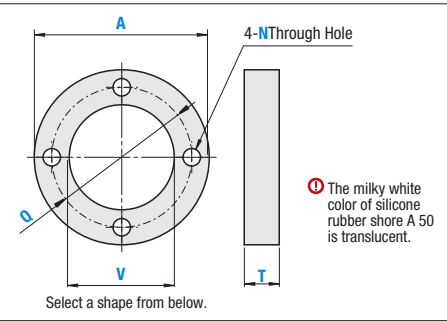
Rubber / Sponge Gaskets

Urethane / Rubbers / Sponges / Felts

Type	Material	Hardness	Color
FRN	Nitrile Rubber (NBR)	Shore A70	Black
FRC	Chloroprene Rubber (CR)	Shore A65	Black
FRCAN	Amber Color Rubber	Shore A45	Amber Color
FRSM	Silicon Rubber	Shore A70	Light Gray
FRAM	Silicon Rubber	Shore A50	Milky White
FRFF	Fluoro Rubber (FPM)	Shore A80	Black
FSNC	Chloroprene Rubbers Sponge	Asker C25	Black
FSNF	Fluoro Rubber Sponge	Asker C35	Black
FSNA	Silicon Rubber Sponge	Asker C35	Orange
FREP	Ethylene Rubber (EPDM Synthetic Rubber)	Shore A65	Black

① The milky white color of silicone rubber shore A 50 is translucent.

① Sponge Hardness ASKER-C



Shape Selection

Machining Limits

$a \geq 5$
 $b \geq 2.5$

Precision Standards

Rubber

T Dimension	1-3	5	10	15-30
	± 0.3	± 0.4	± 0.6	± 2.0 -0.5
Dimension Tolerance of A, B & V	200 mm or Less	201-300	301-500	
	± 0.5	± 1.0	± 1.5	

Sponge

T Dimension	3.5	10	
	± 0.3	± 1.5	
A, B Dimension Tolerance	190 mm or Less	191-390	391 or More
	± 1.5	± 2	± 3

Part Number	Type	Shape	1 mm Increment (A≥B≥T)		0.5 mm Increment							
			Rubber	Sponge	A	B	W	V	F	G	Q	N
FRN	Nitrile Rubber	A	1	3								
FRC	Chloroprene Rubber	1A	2									
FRFF	Fluoro Rubber	4A	3									
FRSM	Silicon A70	8A	5									
FRAM	Silicon A50		8		25-500	25-500						3-30
FRCAN	Amber color rubber	H	10	8	When T=30, A≥30	When T=30, B≥30						
FSNC	Chloroprene Rubber Sponge	4H	15									
FSNF	Fluoro Rubber Sponge	6H	20									
FSNA	Silicon Rubber Sponge	8H	30	10								
FREP	EPDM Synthetic Rubber A65											

① For FRFF (fluoro rubber) with T dimension 15-30, maximum value for A and B is 300.

Part Number Example

Part Number: FRN 4H 3 - A300 - V100 - Q250 - N11

Part Number Alterations

Part Number: FRN 4H 30 - A300 - B200 - W200 - V100 - F250 - G150 - N11 - ZC-Z18-J20

Alterations	1-Flat	2-Flat	Counterbore Hole
Code	SC	WSC	ZC
Spec.	Adds One Flat. Applicable to Shape A and Shape 1A. Ordering Code: SC100 Shape A: A/2≤SC<A-2	Adds Two Flats. Applicable to Shape A and Shape 1A. Ordering Code: WSC100 Shape A: A/2≤WSC<A-4	Changes N (Through Hole) to Counterbore Hole. Ordering Code: ZC-Z17.5-J15 Z, J = 0.5 mm Increment

MISUMI: CONFIGURED TO SAVE TIME



<p>STANDARD</p> <p>Off the shelf, stock materials</p> <ul style="list-style-type: none"> - Limited Selection - Compromised Design <p>+ 3D Model + Part Number + Low Cost + Convenient</p>	<p>CUSTOM</p> <p>Customization at a machine shop</p> <ul style="list-style-type: none"> - Create a CAD model - Create a Manufacturing Drawing - Long Quote Time - Setup Charge - Expensive - Long Delivery <p>+ Uncompromised Design</p>	<p>CONFIGURABLE</p> <p>MISUMI offers a 3rd choice combining the best of both</p> <p>MISUMI offers:</p> <ul style="list-style-type: none"> + Convenience + Unlimited Selection + Uncompromised Design + 3D Model + Global Part Number + Low Cost + Reliable Delivery
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RAPIDLY DESIGN OVER 80 SEXTILLION PART CONFIGURATIONS

Rapid Design is a free software suite to streamline the design process. InCAD Components is the beginning of the suite and runs alongside SolidWorks®. It allows the user to manipulate MISUMI's configurable components, research pricing, and access technical information—without leaving SolidWorks.