

Type	Material	Hardness (JIS Hs)	Color	Operating Temp. Range	Applications	Features
NSA	Nitrile Rubber	70±5	Black	-30~100°C	Mineral Oil Resistant	Most representative material with superior oil / abrasion resistance and heat stability.
NSB	Nitrile Rubber	90±5	Black	-25~100°C		
NSSW	Silicon Rubber	50±5	Milky White	-50~200°C	Heat Resistant	Having excellent high and low temperature resistances, this material has the widest range of operating temperatures among synthetic rubbers. It is suitable for food-related applications.
NSSK	Silicon Rubber	70±5	Scarlet Red	-50~200°C	Heat Resistant	
NSF	Fluoro Rubber	70±5	Black	-15~200°C	Heat Resistant	Best in oil / chemical resistance and heat stability as synthetic rubber. Suitable for a wide range of applications.
NSFH	Fluoro Rubber	90±5	Black	-15~200°C		

Type	No.	G Dimension (Tolerance $^{+0.25}_0$ )			H Dimension $H \pm 0.05$	R Dimension Max. Value
		No Back-Up Ring	Back-Up Ring on One Side	Back-Up Rings on Both Sides		
NSA / NSB / NSSW NSSK / NSF / NSFH	3-22 22.4-50	2.5	—	—	1.0	0.2
		2.7	—	—	1.5	0.4

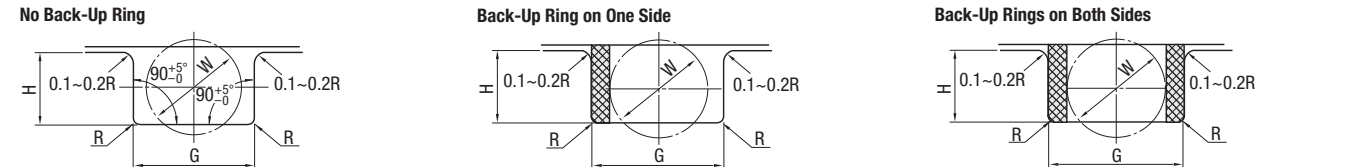
S Series

Part Number	Type	No.	Nominal Number	W	Inner Diameter			Matching Material				
					do	NSA / NSB Tolerance	NSSW / NSSK Tolerance	NSF / NSFH Tolerance	d	Tolerance	D	Tolerance
NSA Nitrile Rubber, Black		3	3	1.5±0.1	2.5	±0.15	±0.45	±0.30	3	0 -0.05	5	+0.05 0
		4	4		3.5				4		6	
		5	5		4.5				5		7	
		6	6		5.5				6		8	
		7	7		6.5				7		9	
		8	8		7.5				8		10	
		9	9		8.5				9		11	
		10	10		9.5				10		12	
		11.2	11.2		10.7				11.2		13.2	
		12	12		11.5				12		14	
NSB Nitrile Rubber, Black		12.5	12.5	2.0±0.1	12.0	±0.25	±0.75	±0.50	12.5	0 -0.05	14.5	+0.10 0
		14	14		13.5				14		16	
		15	15		14.5				15		17	
		16	16		15.5				16		18	
NSSW Silicon Rubber, Milky White		18	18	2.0±0.1	17.5	±0.25	±0.75	±0.50	18	0 -0.05	20	+0.10 0
		20	20		19.5				20		22	
		22	22		21.5				22		24	
		22.4	22.4		21.9				22.4		25.4	
NSSK Silicon Rubber, Scarlet Red		24	24	2.0±0.1	23.5	±0.25	±0.75	±0.50	24	0 -0.05	27	+0.10 0
		25	25		24.5				25		28	
		26	26		25.5				26		29	
		28	28		27.5				28		31	
NSF Fluoro Rubber, Black		29	29	2.0±0.1	28.5	±0.25	±0.75	±0.50	29	0 -0.05	32	+0.10 0
		30	30		29.5				30		33	
		31.5	31.5		31.0				31.5		34.5	
		32	32		31.5				32		35	
NSFH Fluoro Rubber, Black		34	34	2.0±0.1	33.5	±0.25	±0.75	±0.50	34	0 -0.05	37	+0.10 0
		35	35		34.5				35		38	
		35.5	35.5		35.0				35.5		38.5	
		36	36		35.5				36		39	
		38	38		37.5				38		41	
		39	39		38.5				39		42	
		40	40		39.5				40		43	
		42	42		41.5				42		45	
		44	44		43.5				44		47	
		45	45		44.5				45		48	
	46	46	45.5	46	49							
	48	48	47.5	48	51							
	50	50	49.5	50	53							

Part Number Example NSA25

Type	Material	Hardness (JIS Hs)	Color	Operating Temp. Range	JIS Symbol	Applications	Features
NGA	Nitrile Rubber	70±5	Black	-30~100°C	Class 1 A	Mineral Oil Resistant	Most representative material with superior oil / abrasion resistance and heat stability.
NGB	Nitrile Rubber	90±5	Black	-25~100°C	Class 1 B	Heat Resistant	It has almost equivalent characteristics with the class 1A besides higher hardness and better pressure resistance.
NGSW	Silicon Rubber	50±5	Milky White	-50~200°C	—	Heat Resistant	Having excellent high and low temperature resistances, this material has the widest range of operating temperatures among synthetic rubbers. It is suitable for food-related applications.
NGSK	Silicon Rubber	70±5	Scarlet Red	-50~200°C	Class 4 D	Heat Resistant	Best in oil / chemical resistance and heat stability as synthetic rubber. Suitable for a wide range of applications.
NGF	Fluoro Rubber	70±5	Black	-15~200°C	Class 4 D	Heat Resistant	Best in oil / chemical resistance and heat stability as synthetic rubber. Suitable for a wide range of applications.

Type	No.	G Dimension (Tolerance $^{+0.25}_0$ )			H Dimension $H \pm 0.05$	R Dimension Max. Value
		No Back-Up Ring	Back-Up Ring on One Side	Back-Up Rings on Both Sides		
NGA / NGB / NGSW NGSK / NGF	25-145 170	4.1	5.6	7.3	2.4	0.7
		7.5	9	11.5	4.6	0.9



JIS B 2401 G Series (For Mounting)

Part Number	Type	No.	JIS Nominal Number	W	Inner Diameter			Matching Material				
					do	NGA / NGB Tolerance	NGSW / NGSK Tolerance	NGF Tolerance	d	Tolerance	D	Tolerance
NGA Nitrile Rubber, Black		25	G25	3.1±0.1	24.4	±0.25	±0.38	±0.30	25	0 -0.10	30	+0.10 0
		30	G30		29.4	±0.29	±0.44	±0.35	30			
		35	G35		34.4	±0.33	±0.50	±0.40	35			
		40	G40		39.4	±0.37	±0.56	±0.45	40			
NGB Nitrile Rubber, Black		45	G45	3.1±0.1	44.4	±0.41	±0.62	±0.50	45	0 -0.10	50	+0.10 0
		50	G50		49.4	±0.45	±0.68	±0.54	50			
		55	G55		54.4	±0.49	±0.74	±0.59	55			
		60	G60		59.4	±0.53	±0.80	±0.64	60			
NGSW Silicon Rubber, Milky White		65	G65	3.1±0.1	64.4	±0.57	±0.86	±0.69	65	0 -0.10	70	+0.10 0
		70	G70		69.4	±0.61	±0.92	±0.74	70			
		75	G75		74.4	±0.65	±0.98	±0.78	75			
		80	G80		79.4	±0.69	±1.04	±0.83	80			
NGSK Silicon Rubber, Scarlet Red		105	G105	5.7±0.1	104.4	±0.87	—	±0.87	105	0 -0.10	110	+0.10 0
		120	G120		119.4	±0.98	—	±0.98	120			
		145	G145		144.4	±1.16	—	±1.16	145			
		170	G170		169.3	±1.33	—	±1.33	170			

NGS25 and NGS50 not available

Part Number Example NGA25