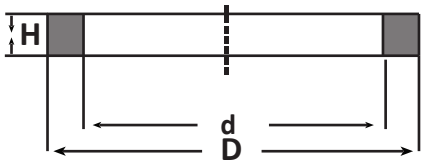
GASKETS

SEALING SYSTEMS

SMS 1149 — **Tri-Clamp Style Gasket STANDARD**

Constructed under the highest, specially using in the food, pharma and chemical process industries, where the standard SMS 1149 is appied. Most of the gaskets can be supplied in NBR, EPDM, FPM, PTFE, Envelope, and Silicone, all meeting the requirements of FDA for use with foodstuff.

DN SIZE	d	D	H	CODE
DN25	25	32	5,5	25-SMS.*
DN32	32	40	5,5	32-SMS.*
DN38	38	48	5,5	38-SMS.*
DN51	51	61	5,5	51-SMS.*
DN63,5	63,5	73,5	5,5	63-SMS.*
DN76	76	86	5,5	76-SMS.*
DN89	89	101	5,5	89-SMS.*
DN100	101,6	113,5	5,5	100-SMS.*
DN104	104	116	5,5	104-SMS.*
DN108	108	120	5,5	108-SMS.*



***For choosing material see the table below**

Material	FDA Certified	FDA Class VI Certified
Buna-N	BW	
EPDM Black	EP	EP.RX
EPDM White	EPW	EPW.RX
Silicone Platinum		SX.RX
Silicone Peroxide	SP	SP.RX
Viton Black	V	V.RX
Viton White	VW	VW.RX
PTFE	TF	TF.RX
Envelope PTFE/EPDM	GREP	GREP.RX
Envelope PTFE/FKM	GRV	GRV.RX
EnvelopePTFE/ FKM (White)	GRVW	GRVW.RX
Orca FDA-Class VI		TB.RX

Ordering Example

Description	Nomimal Size	Ordering Code
Type SMS	DN25	25-SMS.BW

***Material and Surface are inclouding to the ordering code**

GASKETS

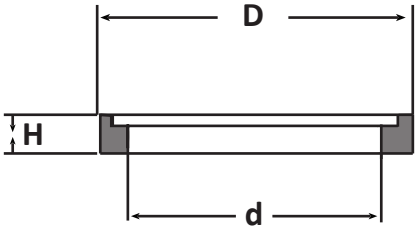
SEALING SYSTEMS

SMS 1149 — **Tri-Clamp Style Gasket FLANGED**

Constructed under the highest, specially using in the food, pharma and chemical process industries, where the standard SMS 1149 is appied. Most of the gaskets can be supplied in NBR, EPDM, FPM, PTFE, Envelope, and Silicone, all meeting the requirements of FDA for use with foodstuff.

DN SIZE	d	D	H	CODE
DN25	25	32	5,5	**25-SMS.L.***
DN38	38	48	5,5	**38-SMS.L.***
DN51	51	61	5,5	**51-SMS.L.***
DN63	63	73	5,5	**63-SMS.L.***
DN76	76	86	5,5	**76-SMS.L.***
DN104	108	120	5,5	**100-SMS.L.***

***For choosing material see the table below**



Material	FDA Certified	FDA Class VI Certified
Buna-N	BW	
EPDM Black	EP	EP.RX
EPDM White	EPW	EPW.RX
Silicone Platinum		SX.RX
Silicone Peroxide	SP	SP.RX
Viton Black	V	V.RX
Viton White	VW	VW.RX
PTFE	TF	TF.RX
Envelope PTFE/EPDM	GREP	GREP.RX
Envelope PTFE/FKM	GRV	GRV.RX
EnvelopePTFE/ FKM (White)	GRVW	GRVW.RX
Orca FDA-Class VI		TB.RX

Ordering Example

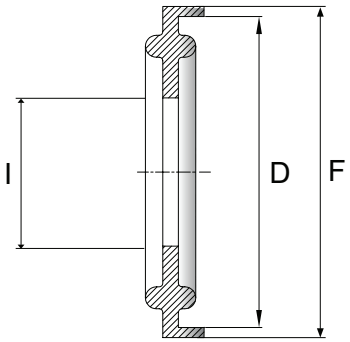
Description	Nomimal Size	Ordering Code
Type SMS	DN25	25-SMS.L.BW

***Material and Surface are inclouding to the ordering code**

GASKETS

SMS 2852 — **Tri-Clamp Style Gasket FLANGED**

Nominal Size	I(ID)	D (OD)	F	Ordering Code
	mm	mm		
25	22,80	50,50	52,70	25-TCM.L.*
33,7	31,50	50,50	52,70	32-TCM.L.*
38	35,80	50,50	52,70	38-TCM.L.*
40	37,80	64,00	66,20	40-TCM.L.*
51	48,80	64,00	66,20	51-TCM.L.*
63,5	60,50	77,50	79,70	63-TCM.L.*
70	67,00	91,00	93,20	70-TCM.L.*
76,1	73,10	91,00	93,20	76-TCM.L.*
88,9	85,10	106,00	108,20	88-TCM.L.*
101,6	97,80	119,00	121,20	100-TCM.L.*
114,3	110,50	130,00	132,20	115-TCM.L.*
139,7	135,90	155,00	157,20	140-TCM.L.*
168,3	163,30	183,00	185,20	168-TCM.L.*
219,1	214,30	233,50	235,70	219-TCM.L.*



***For choosing materials, see the table below**

Material	FDA Certified	FDA Class VI Certified
Buna-N	BW	
EPDM Black	EP	EP.RX
EPDM White	EPW	EPW.RX
Silicone Platinum		SX.RX
Silicone Peroxide	SP	SP.RX
Viton Black	V	V.RX
Viton White	VW	VW.RX
PTFE	TF	TF.RX
Envelope PTFE/EPDM	GREP	GREP.RX
Envelope PTFE/FKM	GRV	GRV.RX
EnvelopePTFE/ FKM (White)	GRVW	GRVW.RX
Orca FDA-Class VI		TB.RX

*CLASS VI available on request

Ordering Example

Description	Nomimal Size	Ordering Code
Type TCM.L.	25	25-TCM.L.BW

***Material and Surface are inclouding to the ordering code**

SEALING SYSTEMS

COMPOUND SELECTION FOR FLUIDS AND CHEMICALS

	BUNA-N	E.P.D.M.	VITON ™	SILICONE
Acetaldehyde	D	A	D	B
Acetamide	A	A	B	B
Acetic Acid, 30%	B	A	B	A
Acetone	D	A	D	C
Acetophenone	D	A	D	D
Acetyl Chloride	D	D	A	C
Acetylene	A	A	A	B
Acrylonitrile	D	D	C	D
Adipic Acid	A	A	E	E
Ammonia Gas (cold)	A	A	D	A
Ammonium Chloride (aq)	A	A	A	E
Ammonium Hydroxide (conc.)	D	A	B	A
Ammonium Nitrate (aq)	A	A	E	E
Ammonium Nitrite (aq)	A	A	E	B
Ammonium Phosphate (aq)	A	A	E	A
Ammonium Sulfate (aq)	A	A	D	E
Amyl Acetate (Banana Oil)	D	A	D	D
Amyl Alcohol	B	A	B	D
Amyl Borate	A	D	A	E
Arsenic Acid	A	A	A	A
Arsenic Trichloride (aq)	A	C	E	E
Barium Chloride (aq)	A	A	A	A
Barium Hydroxide (aq)	A	A	A	A
Barium Sulfate (aq)	A	A	A	A
Barium Sulfide (aq)	A	A	A	A
Benzaldehyde	D	A	D	B
Benzene	D	D	A	D
Benzoic Acid	C	C	A	C
Benzoyl Chloride	D	D	A	E
Benzyl Alcohol	D	A	A	B
Benzyl Chloride	D	D	A	D
Boric Acid	A	A	A	A
Brine	A	A	A	A
Bromine, Anhydrous	D	D	A	D
Bromine Water	D	B	A	D
Butadiene	D	C	A	D
Butane	A	D	A	D
Butyl Acetate	D	C	D	D
Butyl Acetyl Ricinoleate	C	A	A	E
Butyl Alcohol	A	B	A	B
Butyl Amine	C	B	D	D
Butyl Benzoate	D	B	A	E
Butyl Carbitol	D	A	A	D
Butyl Cellosolve	D	A	D	E
Butyl Oleate	D	B	A	E
Butyl Stearate	B	C	A	E

	BUNA-N	E.P.D.M.	VITON ™	SILICONE
Butylene	B	D	A	D
Butyraldehyde	D	B	D	D
Carbolic Acid (Phenol)	D	B	A	D
CarbonBisulfide	C	D	A	D
Carbon Dioxide	A	B	A	B
Carbonic Acid	B	A	A	A
Carbon Monoxide	A	A	A	A
Carbon Tetrachloride	C	D	A	D
CastorOil	A	B	A	A
Cellosolve Acetate	D	B	D	D
China Wood Oil (Tung Oil)	A	C	A	D
Chlorine (wet)	D	C	A	D
Chlorine Dioxide	D	C	A	E
Chloroacetic Acid	D	A	D	E
Chloroacetone	D	A	D	D
Chlorobenzene	D	D	A	D
Chlorobromomethane	D	B	A	D
Chloroform	D	D	A	D
Chlorotoluene	D	D	A	D
Chrome Plating Solutions	D	C	A	C
Chromic Acid	D	B	A	B
Cod Liver Oil	A	A	A	B
Copper Acetate (aq)	B	A	D	D
Copper Chloride (aq)	A	A	A	A
Copper Cyanide (aq)	A	A	A	A
Copper Sulfate (aq)	A	A	A	A
Creosote (coal tar)	A	D	A	D
Cresylic Acid	D	D	A	D
Cyclohexane	A	D	A	D
Cyclohexanol	C	C	A	D
Cyclohexanone	D	B	D	D
Denatured Alcohol	A	A	A	A
Detergent Solutions	A	A	A	A
Diacetone Alcohol	D	A	D	B
Dibenzyl Ether	D	B	D	E
Dibenzyl Sebecate	D	B	B	C
Dibromoethyl Benzene(Alkazene)	D	D	B	D
Dibutyl Amine	D	C	D	C
Dibutyl Ether	D	C	C	D
Dibutyl Phthalate	D	B	C	B
Dibutyl Sebecate	D	B	B	B
O-Dichlorobenzene	D	D	A	D
Dichloro-Isopropyl Ether	D	C	C	D
Diethylamine	B	B	D	B
Diethyl Benzene	D	D	A	D
Diethyl Ether	D	D	D	D

A – SATISFACTORY B – FAIR C – SEVERE EFFECT – EXCEPT FOR SOME STATIC APPLICATIONS D – UNSATISFACTORY E – INSUFFICIENT INFORMATION

SEALING SYSTEMS

COMPOUND SELECTION FOR FLUIDS AND CHEMICALS

	BUNA-N	E.P.D.M.	VITON™	SILICONE
Diethylene Glycol	A	A	A	B
Diethyl Sebecate	B	B	B	B
Diisobutylene	B	D	A	D
Diisopropyl Benzene	D	D	A	E
Diisopropyl Ketone	D	A	D	D
Diisopropylidene Acetone	D	C	D	D
Dimethyl Aniline (Xylidine)	C	B	D	D
Dimethyl Ether (Methyl Ether)	A	D	A	A
Dimethyl Formamide	B	B	D	B
Dimethyl Phthalate	D	B	B	E
Dinitrotoluene	D	D	D	D
Dioctyl Phthalate	C	B	B	C
Dioctyl Sebecate	D	B	B	C
Dioxane	D	B	D	D
Dioxolane	D	B	D	D
Dipentene	A	D	A	D
Diphenyl (Phenylbenzene)	D	D	A	D
Diphenyl Oxides	D	D	A	C
Dowtherm Oil	D	D	A	C
Ethane	A	D	A	D
Ethanolamine	B	B	D	B
Ethyl Acetate	D	B	D	B
Ethyl Acetoacetate	D	B	D	B
Ethyl Acrylate	D	B	D	B
Ethyl Alcohol	A	A	C	A
Ethyl Benzene	D	D	A	D
Ethyl Benzoate	D	A	A	D
Ethyl Cellosolve	D	B	D	D
Ethyl Cellulose	B	B	D	C
Ethyl Chloride	A	C	A	D
Ethyl Chlorocarbonate	D	B	A	D
Ethyl Chloroformate	D	B	D	D
Ethyl Ether	C	C	D	D
Ethyl Pentachlorobenzene	D	D	A	D
Ethylene	A	B	A	E
Ethylene Chloride	D	C	B	D
Ethylene Diamine	A	A	D	A
Ethylene Dichloride	D	C	A	D
Ethylene Glycol	A	A	A	A
Fluoroboric Acid	A	A	E	E
Freon 11	B	D	A	D
Freon 12	A	B	B	D
Freon 22	D	A	D	D
Fumaric Acid	A	B	A	B
Gallic Acid	B	B	A	E

	BUNA-N	E.P.D.M.	VITON™	SILICONE
Gasoline	B	D	A	D
Glucose	A	A	A	A
Glycerin	A	A	A	A
Hexane	A	D	A	D
Hexyl Alcohol	A	C	A	B
Hydrazine	B	A	D	C
Hydrobromic Acid	D	A	A	D
Hydrocyanic Acid	B	A	A	C
Hydrofluoric Acid (conc.) cold	D	C	A	D
Hydrofluosilicic Acid	B	B	A	D
Hydrogen Gas	A	A	A	C
Hydrogen Peroxide (90%)	D	B	B	B
Hydrogen Sulfide (wet) cold	D	A	D	C
Hydroquinone	C	B	B	E
Iodoform	E	D	E	E
Isobutyl Alcohol	B	A	A	A
Isooctane	A	D	A	D
Isopropyl Acetate	D	B	D	D
Isopropyl Alcohol	B	A	A	A
Isopropyl Chloride	D	D	A	D
Isopropyl Ether	B	D	D	D
Kerosene	A	D	A	D
Lacquers	D	D	D	D
Lactic Acid (cold)	A	A	A	A
Lead Acetate (aq)	B	A	D	D
Lead Nitrite (aq)	A	A	E	B
Lime Bleach	A	A	A	B
Linoleic Acid	B	D	B	B
Maleic Acid	D	B	A	E
Malic Acid	A	B	A	B
Methane	A	D	B	D
Methyl Acetate	D	A	D	D
Methyl Acrylate	D	B	D	D
Methylacrylic Acid	D	B	D	D
Methyl Alcohol	A	A	D	A
Methyl Bromide	B	D	A	E
Methyl Butyl Ketone	D	A	D	C
Methyl Cellosolve	C	B	D	D
Methyl Chloride	D	C	B	D
Methyl Cyclopentane	D	D	B	D
Methylene Chloride	D	C	B	D
Methyl Ether	A	D	A	A
Methyl Ethyl Ketone	D	A	D	D
Methyl Isobutyl Ketone	D	B	D	D
Methyl Methacrylate	D	C	D	D

SEALING SYSTEMS

COMPOUND SELECTION FOR FLUIDS AND CHEMICALS

	BUNA-N	E.P.D.M.	VITON™	SILICONE
Milk	A	A	A	A
Mineral Oil	A	C	A	B
Monoethanol Amine	D	A	D	B
Monomethyl Ether	A	D	A	A
Monovinyl Acetylene	A	A	A	B
Mustard Gas	E	A	E	A
Naphthalenic Acid	B	D	A	D
Natural Gas	A	D	A	A
Nickel Acetate (aq)	B	A	D	D
Nickel Chloride (aq)	A	A	A	A
Nickel Sulfate (aq)	A	A	A	A
Nitric Acid (dilute)	D	B	A	B
Nitrobenzene (Ligroin)	A	D	A	D
Nitroethane	D	B	D	D
Nitrogen Tetroxide	D	C	D	D
Octachlorotoluene	D	D	A	D
Octadecane	A	D	A	D
N-Octane	B	D	A	D
Octyl Alcohol	B	C	A	B
Oleic Acid	C	D	B	D
Oxalic Acid	B	A	A	B
Oxygen - Cold	B	A	A	A
Ozone	D	A	A	A
Palmitic Acid	A	B	A	D
Perchloric Acid	D	B	A	D
Phenyl Ethyl Ether	D	D	D	D
Phosphoric Acid - 20%	B	A	A	B
Phosphorus Trichloride	D	A	A	E
Piperidine	D	A	D	D
Polyvinyl Acetate Emulsion	E	A	E	E
Potassium Acetate (aq)	B	A	D	D
Potassium Chloride (aq)	A	A	A	A
Potassium Cyanide (aq)	A	A	A	A
Potassium Nitrate (aq)	A	A	A	A
i-Propyl Acetate	D	B	D	D
Propyl Nitrate	D	B	D	D
Propylene	D	D	A	D
Pyridine	D	B	D	D

	BUNA-N	E.P.D.M.	VITON™	SILICONE
Salicylic Acid	B	A	A	E
Silicone Oils	A	A	A	C
Soap Solutions	A	A	A	A
Sodium Acetate (aq)	B	A	D	D
Sodium Bicarbonate (aq)	A	A	A	A
Sodium Borate (aq)	A	A	A	A
Sodium Chloride (aq)	A	A	A	A
Sodium Hydroxide (aq)	B	A	B	B
Sodium Nitrate (aq)	B	A	E	D
Sodium Peroxide (aq)	B	A	A	D
Soybean Oil	A	C	A	A
Steam, under 300°F	A	A	A	B
Stearic Acid	B	B	E	B
Stoddard Solvent	A	D	A	D
Sulfur Chloride (aq)	C	D	A	C
Sulfuric Acid (dilute)	C	B	A	D
Sulfurous Acid	B	B	A	D
Tannic Acid	A	A	A	B
Tartaric Acid	A	B	A	A
Tetrachloroethylene	D	D	A	D
Toluene	D	D	A	D
Triethanol Amine	B	A	D	E
Trioctyl Phosphate	D	A	B	C
Tung Oil (China Wood Oil)	A	C	A	D
Turpentine	A	D	A	D
Vegetable Oils	A	C	A	B
Vinegar	B	A	A	A
Whiskey, Wines	A	A	A	A
White Pine Oil	B	D	A	D
Zinc Chloride (aq)	A	A	A	A

A – SATISFACTORY B – FAIR C – SEVERE EFFECT – EXCEPT FOR SOME STATIC APPLICATIONS
D – UNSATISFACTORY E – INSUFFICIENT INFORMATION

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