

SUCTION CUPS / Mark free flat Structure

FF Series

Features and Strengths

Excellent performance for very thin and light weight products
Handling product without mark and damage

Application



Examples of use

Semiconductor, Display, Thin film

Available size option

Model	Description	Model	Description
FF10	Mark free and Flat structure suction cup, Ø10	FF30	Mark free and Flat structure suction cup, Ø30
FF15	Mark free and Flat structure suction cup, Ø15	FF15X	Mark free and Flat structure suction cup, Ø15
FF20	Mark free and Flat structure suction cup, Ø20	FF20X	Mark free and Flat structure suction cup, Ø20
FF25	Mark free and Flat structure suction cup, Ø25		



I Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular			Page
		- 20 kPa	- 60 kPa	- 90 kPa	
FF10	0.01	0.18	0.38	0.55	326
FF15	0.04	0.35	0.9	1.20	328
FF20	0.07	0.54	1.35	1.6	330
FF25	0.11	0.86	1.40	1.60	332
FF30	0.17	1.15	1.50	1.60	334
FF15X	0.12	0.35	0.36	0.50	336
FF20X	0.12	0.35	0.36	0.50	338

※ The lifting force above does not include safety factor

SUCTION CUPS / Mark free flat Structure

FF10

Features and Strengths

Excellent performance for very thin and light weight products
Mark free

Examples of use

Semiconductor, Display, Thin Film



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
FF10	0.01	0.18	0.38	0.55

※ The lifting force above does not include safety factor

Material Specifications

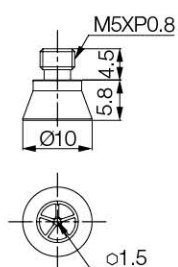
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

Dimension

[Unit : mm]



[With M5M fitting]

I Build an Ordering No.

FF10 -  : Pre-mounted fitting
 1. Suction Cup

1. Suction cup	Description	Symbol
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, Nitrile (NBR)	FF10-N-M5M
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, Silicone	FF10-S-M5M
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, White silicone	FF10-WS-M5M
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, White silicone (FDA)	FF10-WS-M5M (FDA)
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, High temperature silicone	FF10-HS-M5M
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, Conductive silicone	FF10-CS-M5M
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, Urethane	FF10-U-M5M
	Mark free and Flat structure suction cup, 10mm diameter, M5 male fitting, Mark free	FF10-A-M5M

SUCTION CUPS / Mark free flat Structure

FF15



Features and Strengths

Excellent performance for very thin and light weight products
Mark free

Examples of use

Semiconductor, Display, Thin Film



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
FF15	0.04	0.35	0.9	1.20

※ The lifting force above does not include safety factor

Material Specifications

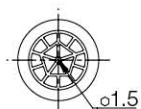
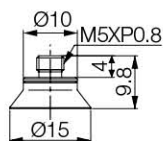
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

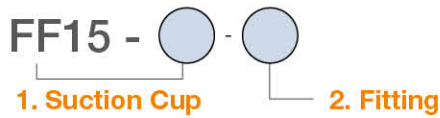
Dimension

[Unit : mm]



[With M5M fitting]

Build an Ordering No.



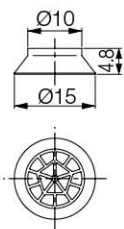
1. Suction cup	Description	Symbol
	Mark free and Flat structure suction cup, 15mm diameter, Nitrile (NBR)	FF15-N
	Mark free and Flat structure suction cup, 15mm diameter, Silicone	FF15-S
	Mark free and Flat structure suction cup, 15mm diameter, White silicone	FF15-WS
	Mark free and Flat structure suction cup, 15mm diameter, White silicone (FDA)	FF15-WS (FDA)
	Mark free and Flat structure suction cup, 15mm diameter, High temperature silicone	FF15-HS
	Mark free and Flat structure suction cup, 15mm diameter, Conductive silicone	FF15-CS
	Mark free and Flat structure suction cup, 15mm diameter, Urethane	FF15-U
	Mark free and Flat structure suction cup, 15mm diameter, Mark free	FF15-A
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M

Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
FF15-N	Mark free and Flat structure suction cup, 15mm diameter, Nitrile (NBR)	0.91	Black
FF15-S	Mark free and Flat structure suction cup, 15mm diameter, Silicone	0.86	Red
FF15-WS	Mark free and Flat structure suction cup, 15mm diameter, White silicone	0.88	Translucent White
FF15-WS (FDA)	Mark free and Flat structure suction cup, 15mm diameter, White silicone (FDA)	0.88	Translucent White
FF15-HS	Mark free and Flat structure suction cup, 15mm diameter, High temperature silicone	0.94	Blue
FF15-CS	Mark free and Flat structure suction cup, 15mm diameter, Conductive silicone	0.9	Smoky Black
FF15-U	Mark free and Flat structure suction cup, 15mm diameter, Urethane	0.94	Dark Green
FF15-A	Mark free and Flat structure suction cup, 15mm diameter, Mark free	0.98	Black

Dimension

[Unit : mm]



Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 007 0101	M5M	M5 male	1.41

SUCTION CUPS / Mark free flat Structure

FF20



Features and Strengths

Excellent performance for very thin and light weight products
Mark free

Examples of use

Semiconductor, Display, Thin Film



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
FF20	0.07	0.54	1.35	1.6

※ The lifting force above does not include safety factor

Material Specifications

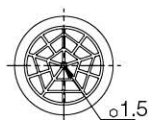
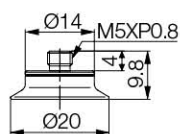
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

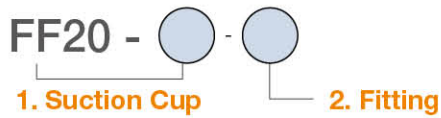
Dimension

[Unit : mm]



[With M5M fitting]

Build an Ordering No.



1. Suction cup	Description	Symbol
	Mark free and Flat structure suction cup, 20mm diameter, Nitrile (NBR)	FF20-N
	Mark free and Flat structure suction cup, 20mm diameter, Silicone	FF20-S
	Mark free and Flat structure suction cup, 20mm diameter, White silicone	FF20-WS
	Mark free and Flat structure suction cup, 20mm diameter, White silicone (FDA)	FF20-WS (FDA)
	Mark free and Flat structure suction cup, 20mm diameter, High temperature silicone	FF20-HS
	Mark free and Flat structure suction cup, 20mm diameter, Conductive silicone	FF20-CS
	Mark free and Flat structure suction cup, 20mm diameter, Urethane	FF20-U
	Mark free and Flat structure suction cup, 20mm diameter, Mark free	FF20-A

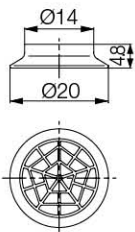
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M

Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
FF20-N	Mark free and Flat structure suction cup, 20mm diameter, Nitrile (NBR)	0.99	Black
FF20-S	Mark free and Flat structure suction cup, 20mm diameter, Silicone	0.94	Red
FF20-WS	Mark free and Flat structure suction cup, 20mm diameter, White silicone	0.96	Translucent White
FF20-WS (FDA)	Mark free and Flat structure suction cup, 20mm diameter, White silicone (FDA)	0.96	Translucent White
FF20-HS	Mark free and Flat structure suction cup, 20mm diameter, High temperature silicone	1.02	Blue
FF20-CS	Mark free and Flat structure suction cup, 20mm diameter, Conductive silicone	0.98	Smoky Black
FF20-U	Mark free and Flat structure suction cup, 20mm diameter, Urethane	1.02	Dark Green
FF20-A	Mark free and Flat structure suction cup, 20mm diameter, Mark free	1.06	Black

Dimension

[Unit : mm]



Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 007 0102	M5M	M5 male	2.59

SUCTION CUPS / Mark free flat Structure

FF25



Features and Strengths

Excellent performance for very thin and light weight products
Mark free

Examples of use

Semiconductor, Display, Thin Film



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
FF25	0.11	0.86	1.40	1.60

※ The lifting force above does not include safety factor

Material Specifications

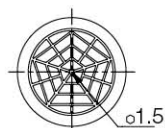
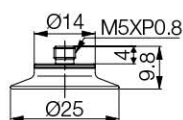
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

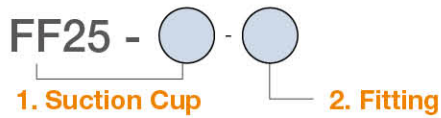
Dimension

[Unit : mm]



[With M5M fitting]

Build an Ordering No.



1. Suction cup	Description	Symbol
	Mark free and Flat structure suction cup, 25mm diameter, Nitrile (NBR)	FF25-N
	Mark free and Flat structure suction cup, 25mm diameter, Silicone	FF25-S
	Mark free and Flat structure suction cup, 25mm diameter, White silicone	FF25-WS
	Mark free and Flat structure suction cup, 25mm diameter, White silicone (FDA)	FF25-WS (FDA)
	Mark free and Flat structure suction cup, 25mm diameter, High temperature silicone	FF25-HS
	Mark free and Flat structure suction cup, 25mm diameter, Conductive silicone	FF25-CS
	Mark free and Flat structure suction cup, 25mm diameter, Urethane	FF25-U
	Mark free and Flat structure suction cup, 25mm diameter, Mark free	FF25-A

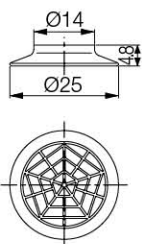
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M

Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
FF25-N	Mark free and Flat structure suction cup, 25mm diameter, Nitrile (NBR)	1.22	Black
FF25-S	Mark free and Flat structure suction cup, 25mm diameter, Silicone	1.17	Red
FF25-WS	Mark free and Flat structure suction cup, 25mm diameter, White silicone	1.18	Translucent White
FF25-WS (FDA)	Mark free and Flat structure suction cup, 25mm diameter, White silicone (FDA)	1.18	Translucent White
FF25-HS	Mark free and Flat structure suction cup, 25mm diameter, High temperature silicone	1.26	Blue
FF25-CS	Mark free and Flat structure suction cup, 25mm diameter, Conductive silicone	1.2	Smoky Black
FF25-U	Mark free and Flat structure suction cup, 25mm diameter, Urethane	1.26	Dark Green
FF25-A	Mark free and Flat structure suction cup, 25mm diameter, Mark free	1.31	Black

Dimension

[Unit : mm]



Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 007 0102	M5M	M5 male	2.59

SUCTION CUPS / Mark free flat Structure

FF30



Features and Strengths

Excellent performance for very thin and light weight products
Mark free

Examples of use

Semiconductor, Display, Thin Film



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
FF30	0.17	1.15	1.50	1.60

※ The lifting force above does not include safety factor

Material Specifications

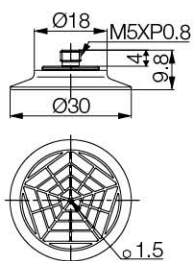
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

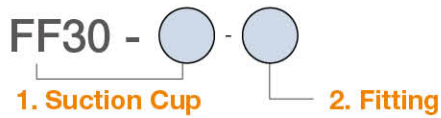
Dimension

[Unit : mm]



[With M5M fitting]

Build an Ordering No.



1. Suction cup	Description	Symbol
	Mark free and Flat structure suction cup, 30mm diameter, Nitrile (NBR)	FF30-N
	Mark free and Flat structure suction cup, 30mm diameter, Silicone	FF30-S
	Mark free and Flat structure suction cup, 30mm diameter, White silicone	FF30-WS
	Mark free and Flat structure suction cup, 30mm diameter, White silicone (FDA)	FF30-WS (FDA)
	Mark free and Flat structure suction cup, 30mm diameter, High temperature silicone	FF30-HS
	Mark free and Flat structure suction cup, 30mm diameter, Conductive silicone	FF30-CS
	Mark free and Flat structure suction cup, 30mm diameter, Urethane	FF30-U
	Mark free and Flat structure suction cup, 30mm diameter, Mark free	FF30-A

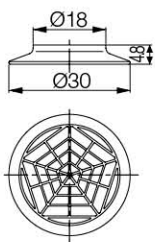
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M

Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
FF30-N	Mark free and Flat structure suction cup, 30mm diameter, Nitrile (NBR)	2.07	Black
FF30-S	Mark free and Flat structure suction cup, 30mm diameter, Silicone	1.97	Red
FF30-WS	Mark free and Flat structure suction cup, 30mm diameter, White silicone	1.91	Translucent White
FF30-WS (FDA)	Mark free and Flat structure suction cup, 30mm diameter, White silicone (FDA)	1.91	Translucent White
FF30-HS	Mark free and Flat structure suction cup, 30mm diameter, High temperature silicone	2.03	Blue
FF30-CS	Mark free and Flat structure suction cup, 30mm diameter, Conductive silicone	1.95	Smoky Black
FF30-U	Mark free and Flat structure suction cup, 30mm diameter, Urethane	2.04	Dark Green
FF30-A	Mark free and Flat structure suction cup, 30mm diameter, Mark free	2.12	Black

Dimension

[Unit : mm]



Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 007 0102	M5M	M5 male	2.59

SUCTION CUPS / Mark free flat Structure

FF15X



Features and Strengths

Excellent performance for very thin and light weight products
Mark free

Examples of use

Semiconductor, Display, Thin Film



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
FF15X	0.12	0.35	0.36	0.50

※ The lifting force above does not include safety factor

Material Specifications

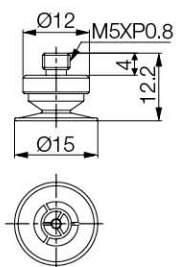
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

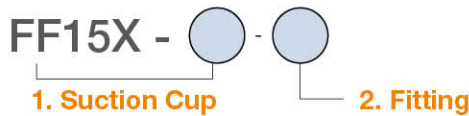
Dimension

[Unit : mm]



[With M5M fitting]

Build an Ordering No.



1. Suction cup	Description	Symbol
	Mark free and Flat structure suction cup, 15mm diameter, Nitrile (NBR)	FF15X-N
	Mark free and Flat structure suction cup, 15mm diameter, Silicone	FF15X-S
	Mark free and Flat structure suction cup, 15mm diameter, White silicone	FF15X-WS
	Mark free and Flat structure suction cup, 15mm diameter, White silicone (FDA)	FF15X-WS (FDA)
	Mark free and Flat structure suction cup, 15mm diameter, High temperature silicone	FF15X-HS
	Mark free and Flat structure suction cup, 15mm diameter, Conductive silicone	FF15X-CS
	Mark free and Flat structure suction cup, 15mm diameter, Urethane	FF15X-U
	Mark free and Flat structure suction cup, 15mm diameter, Mark free	FF15X-A

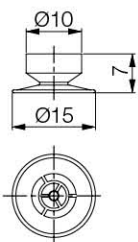
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M

Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
FF15X-N	Mark free and Flat structure suction cup, 15mm diameter, Nitrile (NBR)	0.46	Black
FF15X-S	Mark free and Flat structure suction cup, 15mm diameter, Silicone	0.43	Red
FF15X-WS	Mark free and Flat structure suction cup, 15mm diameter, White silicone	0.44	Translucent White
FF15X-WS (FDA)	Mark free and Flat structure suction cup, 15mm diameter, White silicone (FDA)	0.44	Translucent White
FF15X-HS	Mark free and Flat structure suction cup, 15mm diameter, High temperature silicone	0.47	Blue
FF15X-CS	Mark free and Flat structure suction cup, 15mm diameter, Conductive silicone	0.45	Smoky Black
FF15X-U	Mark free and Flat structure suction cup, 15mm diameter, Urethane	0.47	Dark Green
FF15X-A	Mark free and Flat structure suction cup, 15mm diameter, Mark free	0.49	Black

Dimension

[Unit : mm]



Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 007 0103	M5M	M5 male	2.41

SUCTION CUPS / Mark free flat Structure

FF20X



Features and Strengths

Excellent performance for very thin and light weight products
Mark free

Examples of use

Semiconductor, Display, Thin Film



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
FF20X	0.12	0.35	0.36	0.50

※ The lifting force above does not include safety factor

Material Specifications

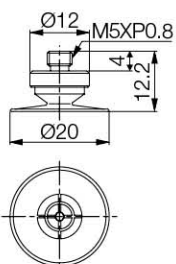
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

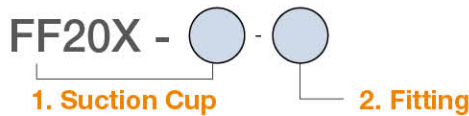
Dimension

[Unit : mm]



[With M5M fitting]

Build an Ordering No.



1. Suction cup	Description	Symbol
	Mark free and Flat structure suction cup, 20mm diameter, Nitrile (NBR)	FF20X-N
	Mark free and Flat structure suction cup, 20mm diameter, Silicone	FF20X-S
	Mark free and Flat structure suction cup, 20mm diameter, White silicone	FF20X-WS
	Mark free and Flat structure suction cup, 20mm diameter, White silicone (FDA)	FF20X-WS (FDA)
	Mark free and Flat structure suction cup, 20mm diameter, High temperature silicone	FF20X-HS
	Mark free and Flat structure suction cup, 20mm diameter, Conductive silicone	FF20X-CS
	Mark free and Flat structure suction cup, 20mm diameter, Urethane	FF20X-U
	Mark free and Flat structure suction cup, 20mm diameter, Mark free	FF20X-A

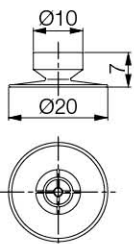
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M

Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
FF20X-N	Mark free and Flat structure suction cup, 20mm diameter, Nitrile (NBR)	0.5	Black
FF20X-S	Mark free and Flat structure suction cup, 20mm diameter, Silicone	0.47	Red
FF20X-WS	Mark free and Flat structure suction cup, 20mm diameter, White silicone	0.48	Translucent White
FF20X-WS (FDA)	Mark free and Flat structure suction cup, 20mm diameter, White silicone (FDA)	0.48	Translucent White
FF20X-HS	Mark free and Flat structure suction cup, 20mm diameter, High temperature silicone	0.51	Blue
FF20X-CS	Mark free and Flat structure suction cup, 20mm diameter, Conductive silicone	0.49	Smoky Black
FF20X-U	Mark free and Flat structure suction cup, 20mm diameter, Urethane	0.51	Dark Green
FF20X-A	Mark free and Flat structure suction cup, 20mm diameter, Mark free	0.54	Black

Dimension

[Unit : mm]



Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 007 0103	M5M	M5 male	2.41