

scuba gaskets.com



Scubagaskets catalogue

Standard Size

O-Rings



Cross Section



001



002



003



004



005



006



007



008



009



010



011



012



013



014



015



016



017



018



019



020



110



111



112



113



114



115



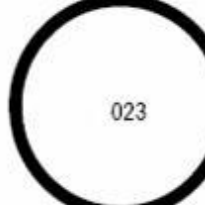
116



021



022



023



024



025



211



212

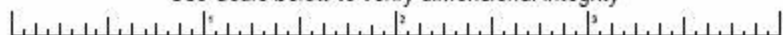


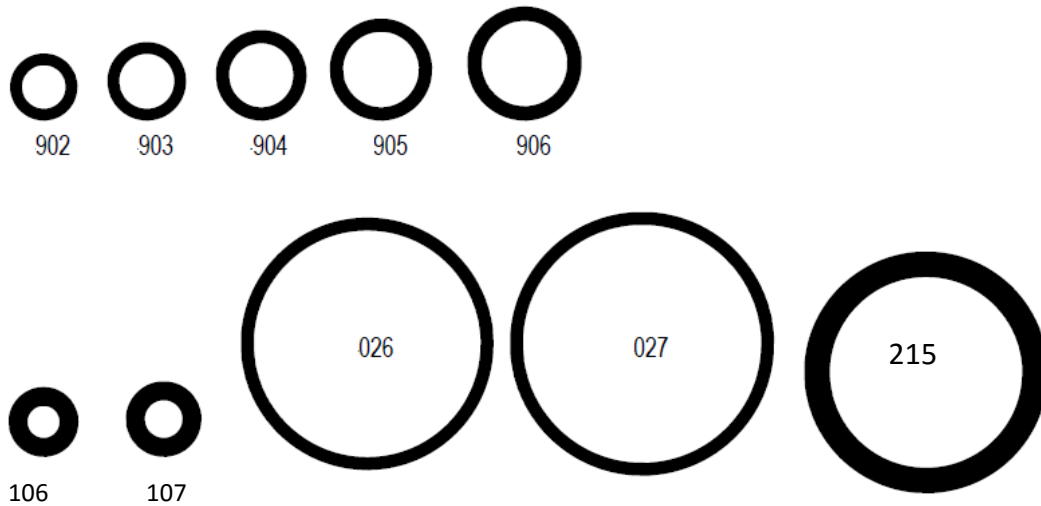
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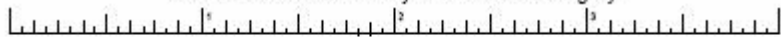
214

Use Scale below to verify dimensional integrity





Use Scale below to verify dimensional integrity



O-ring Dimensions

*New Products

Product Codes	METRIC SYSTEM			Product Codes	METRIC SYSTEM		
	I.D.	C/S	O.D.		I.D.	C/S	O.D.
001	0,74	1,02	2,78	211	20,22	3,53	27,28
1,95 X 1,00*	1,95	1,00	3,95	212	21,82	3,53	28,88
002	1,07	1,27	3,61	213	23,39	3,53	30,45
003	1,42	1,52	4,46	214	24,99	3,53	32,05
004	1,78	1,78	5,34	215	26,58	3,53	33,00
2,20 X 1,00*	2,20	1,00	4,20	39 x 1,00*	39,00	1,00	41,00
RO*	2,40	1,90	6,20	39 x 1,50*	39,00	1,50	42,00
005	2,57	1,78	6,13	36 x 1,50*	36,00	1,50	39,00
006	2,9	1,78	6,46	24 x 2,00*	24,00	2,00	28,00
007	3,68	1,78	7,24	15 X 4,00*	15,00	4,00	23,00
008	4,47	1,78	8,03				
009	5,28	1,78	8,84				
610*	6,75	1,78	10,31				
902*	6,02	1,63	9,28				
903*	7,65	1,63	10,91				
905*	10,72	1,83	14,38				
906*	11,90	1,98	15,86				
9.05	6,50	1,30	9,10				
010	6,07	1,78	9,63				

10.5	7,50	1,50	10,5
011	7,65	1,78	11,21
012	9,25	1,78	12,81
013	10,82	1,78	14,38
014	12,42	1,78	15,98
015	14	1,78	17,56
016	15,6	1,78	19,16
017	17,17	1,78	20,73
018	18,77	1,78	22,33
019	20,35	1,78	23,91
020	21,95	1,78	25,51
021	23,52	1,78	27,08
022	25,12	1,78	28,68
023	26,7	1,78	30,26
024	28,3	1,78	31,86
025	29,87	1,78	33,43
026*	31,47	1,78	35,03
027*	33,05	1,78	36,61
106*	4,42	2,62	9,66
107*	5,23	2,62	10,47
110	9,19	2,62	14,43
111	10,77	2,62	16,01
112	12,37	2,62	17,61
113	13,94	2,62	19,18
114	15,54	2,62	20,78
115	17,12	2,62	22,36
116	18,72	2,62	23,96

Indicative Application Guide

Product code	Use or Brand part number
1,95 X1,00*	Sherwood part no 6500-112
2,20 X1,00*	Scubapro part no 1,050,363
15 x 4,00*	Mares part no 46200559
610*	Mares part no 46110106
RO *	Scubapro part no 1,050,317
24 x 2,00 *	Suunto for C6 Zender
39 x 1,50*	Suunto for C8 D4
36 X 1,50*	Suunto for C9 D9
003	Submersible pressure gauge/consoles: internal swivel seal
004	Older internal swivel seal models; AT-PAC BC's Power inflator control Sherwood part no 6121-122
005	Seal used in older depth and tank "stem" gauges
006	Common seal in regulator balance chambers; Power inflator stems; CO2 detonators; SAS gland seal, Sherwood part no 5121-101 & 6500-118 Scubapro part no 1,050,117 , Mares 46110101
007	Regulator piston ring; small HP seal, Sherwood part no G007A
008	Sonic regulators; Regulator piston ring; small HP seal, Sherwood part no 6110-129 , Scubapro part no 1,050,126
009	Seal in open-tube depth gauges, Sherwood part no 6121-135 & 6400-113
010	Regulator hose: swivel end; Piston barrel HP seal; 2nd stage orifice seal; Valve stem seals; Early Calpyso regulators; Power inflator stems, Sherwood part no 5121-104 & 6110-119 & 6161-101 & 6121-137 , Scubapro part no 1,050,132 , Scubapro part no 1,050,136 , Mares part no 46110205
011	Regulator hose: male end; Regulator port plugs LP; Hose adapters; J-regulators; Early replacement HP seats; Captured HP outlets; Piston HP barrel BC hose coupler, Sherwood part no 5121-103 , Scubapro part no 1,050,351 , Mares part no 46110107
012	Console/gauge hoses: male end; Underneath filter; Hose adapters; HP seat seal; LP swivel cap; HP port plugs, Scubapro part no 1,050,145 , Mares part no 46110108 & 46110110
013	Piston seat seal; Survivair manifolds; Power inflator seals; Common in aluminum cylinder valve to yoke regulator seals, Sherwood part no 6400-115 , Scubapro part no 1,050,147 , Mares part no 46110215
014	+ 2nd stage inlet fittings; J-regulators; Common in aluminum cylinder valve to yoke Regulator, Sherwood part no 5121-105 , Scubapro part no 1,050,347 , Mares part no 46110211
015	1st stage inlet fittings; HP seal retainer seal; J valve module; Valve HP plugs; 2nd stage barrel and housing plug seals, Sherwood part no 5121-106 , Scubapro part no 1,050,158
016	Old 1/2" NPS valves; 2nd stage inlet fittings; SAS LP seats; J-regulators; HP module seal; Valve HP plugs; 2nd stage barrel and housing plug seals; Paintball Guns; M18X1,5 Valves, Sherwood part no 6400-125 , 6500-129 , Scubapro part no 1,050,160
017	Regulator piston ring and cap; Dacor HP module, Scubapro part no 1,050,161 &

	1,050,162, Mares part no 46110225
018	Regulator piston ring (1970's); 2nd stage inlet seal; Body plug seal
019	Healthway / USD / Sherwood industrial piston regulator
020	Regulator piston ring (USD & SAS), Sherwood part no 6400-102
021	Regulator piston ring
022	Common regulator piston ring; Body plug seals; Paintball guns, Sherwood part no 5110-107, Scubapro part no 1,050,177
023	Regulator LP swivel seal; Body plug seals, Sherwood part no 6110-131 & 6400-107
024	Piston cap seals (USD); SAS 1st stage, Sherwood part no 6110-125
025	Gauge lenses, Sherwood part no 5110-109
026*	For Sunnto C3 Cobra, EON,VIPER,FAVOUR,AIR LUX computers
027*	Scubapro part no 1,050,164
902*	Scubapro part no 1,050,293
903*	Sherwood part no 6121-141
905*	Sherwood part no 6400-135
906*	Sherwood part no 6110-115 & 6121-104
106*	Sherwood part no 5121-102
107*	Sherwood part no 6121-129
109*	Scubapro part no 1,050,385
110	Old double manifolds; Spearguns
111	Australian/ Nemrod valves; BC inflators; DIN regulator seals, Sherwood part no 6400-138, Scubapro part no 1,050,193 & 1,050,428 Mares part no 46110247
112	Steel tank valve; Basal DIN seal, Scubapro part no 11,361,115
113	Aquarius piston ring / cap seal; Healthway regulators
114	Early piston models; Paintball Guns
115	AMF HP module; BC fittings
116	Genesis tank valve; BCD Inflator Mechanisms; Paintball Guns
211	Early BC fittings
213	Early BC fittings
214	Cylinder to 3/4 valve seal; Cylinder to M25X2 valve Seals, Scubapro part no 1,050,259
215	Aluminum Cylinder valve seals

Note: The table above mentions only some applications in the SCUBA and Paintball Gear. Not every application is indicated.

Product List

NR70= Nitrile soft, **NR90**=Nitrile hard, **FKM**=Fluorocarbon (viton)

EPDA=Ethylene-Propylene-Diene-Monomer, **POLY**=Polyurethane

SCUBAGASKETS Code	Available Material and hardness	SCUBAGASKETS Code	Available Material and hardness
001	NR70, NR90	114	NR70, NR90
002	NR70, NR90	115	NR70, NR90
003	NR70, NR90, FKM75	116	NR70, NR90
004	NR70, NR90	211	NR70, NR90
005	NR70, NR90	212	NR70
006	NR70, NR90, FKM90	213	NR90
007	NR70, NR90, FKM75	214	NR70, NR90, FKM75
008	NR70, NR90, FKM75, EPDM70	215	NR70
009*	NR70, NR90, FKM75, POLY 90	15,00x4,00*	EPDM70
9,05	NR70	39,00 x 1,00*	EPDM70
010*	NR70, NR90, FKM75, EPDM70	2,22 x 1,00*	NR70
10,5	NR70	24,00 x 2,00*	EPDM70
011*	NR70, NR90, FKM75, EPDM70	39,00 x 1,50*	EPDM70
012*	NR70, NR90, FKM90, EPDM70	36,00 x 1,50*	EPDM70
013*	NR70, NR90, FKM90, EPDM70	RO*	NR70
014*	NR70, NR90, FKM90, EPDM70	1,95 x 1,00*	NR70
015	NR70, NR90, FKM90	106*	NR70
		107*	NR70
016	NR70, NR90, FKM90	906*	NR70
		903*	NR70
017*	NR70, NR90, FKM75, EPDM70	905*	NR70
018	NR70, NR90, FKM75	902*	NR70
019	NR70, NR90, FKM75	109*	EPDM70
020	NR70, NR90, FKM75	610*	NR70
021	NR70, NR90, FKM75	Service pack	NR90 100Pieces, FKM 120Pieces
022*	NR70, NR90, FKM75, EPDM70		
023	NR70, NR90		
024	NR70, NR90		
025	NR70, NR90		
026*	EPDM70		
110	NR70, NR90, FKM90		
111*	NR70, NR90, EPDM 70, POLY 90, FKM90		
112	NR70, NR90, FKM90		
113	NR70, NR90		

*New products



O-Rings for High Pressure Breathing Appliances.

Frequently Asked Questions.

Why should we prefer your O-rings?

SCUBAGASKETS O-rings have been selected by the manufacturer, so that they are the correct type for the specific application which is use in SCUBA equipment.

The average diver might be aware of two main categories of O-rings commonly used in SCUBA equipment, that come in different hardness (Shore A), ranging from 70 to 90. These are Nitrile O-rings and **Viton®** O-rings. The latest are being used with oxygen enriched mixtures. However there is a great variety of materials in the industry and each material has its recommended field of use. Even within the same category, and the same hardness, there are many subtypes; with each having its own applications. By selecting SCUBAGASKETS you eliminate luck and you ensure the use of correct seals.

Your o-rings cost more than other brands' do.

Two issues to consider when you are buying O-rings:

There are no hidden costs with SCUBAGASKETS. We simply let you know the price to your door, not the one that the product leaves our warehouse with. Everyone can understand how the initial (ex-works) price increases until the product reaches its final destination; your address! Calculate above all shipping fees. In addition to that calculate handling or what ever costs the supplier will have to charge on top of the advertised price, and if the product is eligible to taxes, calculate the import tax, customs clearance fees, VAT and so on. You will probably end up with a figure that is not even close to the advertised price.

Even after the calculations there might be cheaper solutions! Fair **enough!** **Yes, we don't** claim being the lower cost supplier. Instead our focus is on high-tech OEM applications, and we are striving to offer our customers the best possible quality for their application and the best value for money. Our O-rings are not general purpose O-rings. They are carefully and specifically selected by the manufacturer for SCUBA applications.

What is FKM?

A. FKM is the ASTM designation for the fluoroelastomer category. It is not a mark of quality. Not all FKMs are equivalent, and some may fall short on desired performance.

What is Viton?

Viton is a trademark of DuPont Performance Elastomers. **Viton® was introduced in 1958** and scientists and engineers have relied on DuPont and now DuPont Performance Elastomers **Viton®** for its superior performance and unique properties ever since. However, DuPont Performance Elastomers is not the only company that manufactures FKM products. Many people in the industry incorrectly refer to any and all FKM elastomers as **Viton®**. **Bear in mind** that not all FKMs are equivalent. As a result, you could end up with sealing products **that are not the type of Viton® you need**, let alone made of 100% virgin DuPont Performance **Elastomers Viton®**. **Products not made from DuPont Performance Elastomers Viton® may fall** short of the expected performance levels afforded by the stringent quality standards DuPont Performance Elastomers has set for **Viton®**, which is manufactured at ISO 9002 registered facilities worldwide.

Are all fluoroelastomers "Viton®" fluoroelastomers?

In a word, no! Only DuPont Performance Elastomers manufactures **Viton®** fluoroelastomer. Because **Viton®** is an established industry standard, many people incorrectly refer to any and all fluoroelastomers as **Viton®**. To ensure you're getting the highest quality fluoroelastomer available, insist on products made only with DuPont Performance Elastomers **virgin Viton®**.

How do I know I am getting O-rings made with Genuine Viton® fluoroelastomer?

Look and Ask! Be sure to make Viton® an element of your part specification. When parts are **shipped, look for the Genuine Viton® trademark. Not every supplier has** a right to use the word Viton® in its products!



Why does VITON® matter?

It is your guarantee of product integrity. When you use products that carry this trademark, compliance to OSHA Mechanical Integrity Section 1910.119 is assured. It means that the parts offer the superior performance that only DuPont Performance Elastomers Viton® fluoroelastomer provides. Other fluoroelastomer parts may include blends and other rubbers that deliver inferior heat and fluid resistance performance.

Who can use the word "VITON®"?

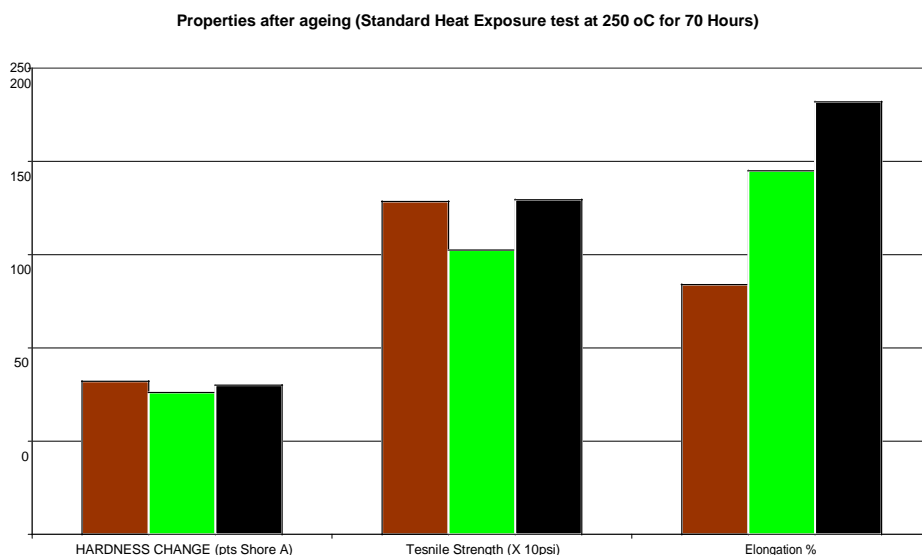
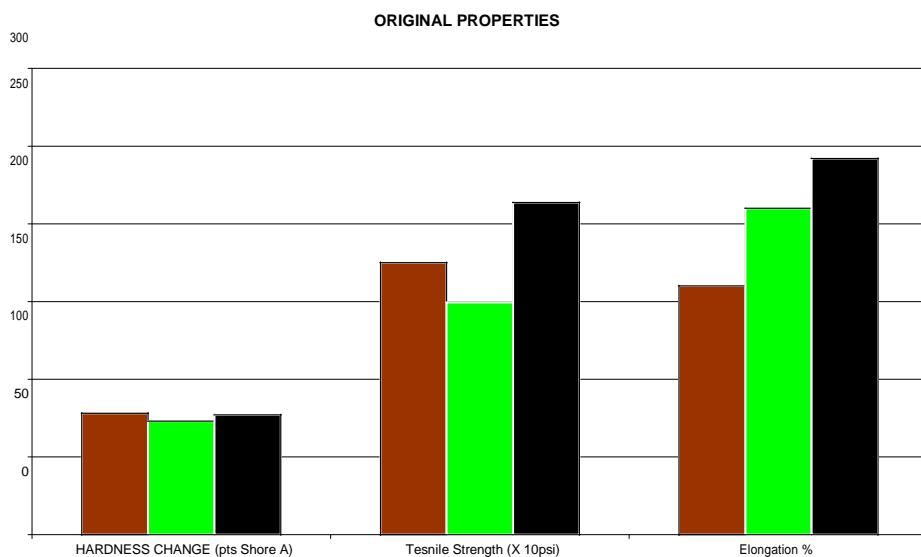
Only manufacturers who have signed a formal agreement with DuPont Performance Elastomers can use this trademark on their products. The manufacturers are selected carefully for their knowledge, their quality standards and for their ability to help you select the **correct type of Viton® for your application**. A well-written specification will communicate your needs to your supplier, who has up-to-date **information about the variety of Viton®** performance types and who can suggest the most cost-effective recommendation.

Why your O-rings come in black color?

This was a tough decision we had to make. We chose black because of its superior properties over brown or green material. The tests showed that Black Viton compared to Green or Brown Viton, with all parameters constant except for the color, is favorable. It has higher strength, better stability and better elastic properties originally (brand new), and also after exposure to extreme situations that cause material fatigue. It also possesses higher resistance to surface damage.

The production of any color material is feasible but requires the addition of pigments and other chemicals which by definition change the **elastomer's physical characteristics**. As divers we are all highly sensitive to quality issues. We would be very reluctant to compromise any amount of quality for the sake of being able to identify Viton by color. Furthermore we should be aware that nitrile-type and other materials may indeed be produced in green or brown or any other color we can imagine. If we judge only by color then there is a great risk of falling into errors. We have chosen to sacrifice the easy identification by color for getting the benefit of the best possible quality. The graphs below compare the characteristics within a range of **DuPont's** Viton Elastomers (reference below).

You will identify the superiority of black elastomer with regards to Tensile strength, elongation characteristics and stability over heat exposure:



What else do we mean by quality?

- 18 Years of O-ring Technical Expertise in the industry: (including general industry, heavy chemical industry (offshore) Automotive, Water and Heating and others. Also we are very much involved in the Aerospace industry, working closely with all leading European companies . This assures you that you have the best selection for SCUBA gear with regards to technical characteristics.



from UV-light that may cause material deterioration and hence alteration of the o-ring sealing characteristics.

- The O-rings are packed in shocked-proved containers, protected from damage by mechanical pressure that may cause material deterioration and hence alteration of the O-ring sealing characteristics.

- The O-rings are packed in opaque containers, protected

- The O-rings are packed in straight-sided jars, which have been specifically designed so you can place them on top of each other and save storage space.

- The containers are closed with safety seal, which allows you to ensure quality before you buy by checking that the seal is in place.



- The jars have wide mouth either 5cm or 7,5cm which makes them ideal to work from in the work bench. You don't need to find a bulky O-ring kit box to store all different types of O-rings that you are using. Just use the O-rings containers. No more mixing up, and no more mess inside the big boxes. Have you ever drop an open big box with 30 different O-ring sizes?