





### Company and its History

Omid Farda Cylinder Company was established in 2014 by Mr. Saadi Pourshaban and has launched its operational phase of manufacturing types of pressure oxygen, compressed gas and firefighting cylinders since 2017 with the latest world machinery and technology, taking advantage of the know-how of its professional team under Saadi brand name.

To enhance the quality of its products, the Group has obtained all relevant licenses and approvals from the concerned authorities and organizations, and by applying the requirements of ISO9001-, ISO13485-, ISO10002-, ISO10004-, the company strives, as a leading and accountable organization and the first manufacturer holding IMED certification, established in the company's current process and operation, to protect the society's safety and health.



### Company's Visions and Missions

Introducing Saadi as a reputable and recognizable brand

National self-sufficiency

Compliance with the principles of safety, quality and accountability in its products

Expanding into global markets

- Holder of exploitation license from the Ministry of Mining Industry and Trade
- Holder of standard 7909 license number 8367880965 in the field of production of seamless steel gas cylinders
- Holder of standard 869 license number 8383408995 in the field of powder and manual extinguishers
- Listed in row 46 of the list of products approved by the Tehran Fire Department
- Holder of IMED independent medical equipment manufacturing license, number 94566139





### Seamless Steel Cylinders

To manufacture this group of products, which are processed and supplied as Oxygen (O<sub>2</sub>), Carbon Dioxide (CO<sub>2</sub>), and other compressed gas cylinders, seamless tubes (Mannesmann) are used with heat transfer rotational molding process without any seam welding operations. Upon completion of heat treatment in mechanized furnaces and machining with CNC equipment, the product undergoes a variety of tests in compliance with ISIRI-7909 and ISIRI-9809 standards, to ensure the minimum test pressure of 225 BAR.

The oxygen cylinders manufactured by the company has a dual medical and industrial application and CO<sub>2</sub> cylinders are also used in the industry and in Group B fire suppression, with a variety of weight and dimensions.



- Working pressure is 150 bar, test pressure is 225 bar, and burst test pressure is 360 bar.
- The cylinder coated-surface is painted with a minimum 50 micron thickness, using electrostatic furnace powder coating process; and to improve the adhesive strength, corrosion and scratch resistance of paint, shot blasting, phosphating and degreasing process are used to make the surface pre-painting arrangements.
- Warnings and precautions in using the product are included in the label, while the serial number, standard symbol, and date of manufacture are stamped onto the cylinder shoulder.
- Control valve is made of brass in compliance with Din447 standard.
- The product is supplied with a 5-year warranty period for cylinder body together with a one-year civil liability coverage.

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Technical Specifications of O2 Product Group						
Nominal Capacity (LIT)		2	5	10	20	40
Dimensions	Total Height (cm)	46	54	89	130	155
	Outside Diameter (mm)	114	141	141	168	232
	Thickness (mm)	5/4	5/4	5/4	7/5	7/5
Empty Cylinder Weight (kg)		5/4	8	11	33	44
Cylinder Valve		√	√	√	√	√
Belongings	Cylinder Cart	–	–	√	√	√
	Cylinder Handle	–	√	√	√	√





## Technical Specifications of CO2 Product Group

Nominal Capacity (kg)		2	3	4	5	6	10	12	20	30	40
Gas Weight (kg)		5/1	5/2	3	4	5	8	10	15	20	30
Demensions	Total Height (cm)	50	59	66	65	74	86	100	120	113	155
	Outside Diameter (mm)	114	114	114	140	140	140	140	168	220	232
	Thickness (mm)	5/4	5/4	5/4	5/4	5/4	5/4	5/4	7/5	7/5	7/5
Empty Cylinder Weight (kg)		5/5	5/6	5/7	8	9	11	15	33	39	44
Valve	Compression Valve	√	√	√	√	√	-	-	-	-	-
	Valve	-	-	-	-	-	√	√	√	√	√
Belongings	Cylinder Cart	-	-	-	-	-	√	√	√	√	√
	Cylinder Handle	-	-	-	-	-	-	-	√	√	√
	Trumpet Hose	-	-	√	√	√	√	√	√	√	√
	Discharge Nozzle	√	√	-	-	-	-	-	-	-	-
	Wall Bracket	√	√	√	√	√	-	-	-	-	-
Discharge Time		5	7	9	11	14	17	19	35	49	75



### Aquarium Cylinders

Nowadays, CO2 gas is also used in plant aquariums; to this end, Omid Farda Cylinder Company started producing and supplying CO2 gas cylinders in a variety of weights to fit aquariums application.

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### Seamy Fire Extinguishers

In manufacturing this group of products, including chemical dry powder, foam and gas extinguishers, high-tensile strength cold rolled steel sheet is used, which is converted into a product during automatic MIG / MAG (CO2) pressing and welding operations, and is inspected and undergoes quality tests and approval in compliance with the requirements of ISIRI-869 standard.

### Powder Products

The chemical dry powder, in compliance with ISIRI-3434 standard in two BC and ABC groups, is chargeable and supplied with 99.99% purity nitrogen, which is selected based on the nature of combustible material and fire type.

#### Class A

Involves dry and solid materials fire, usually leaving molten ash, including wood, fabric and paper

#### Class B

Involves flammable and combustible liquids such as gasoline, alcohol, oil-based paints, lacquers

#### Class C

Involves flammable gases such as propane, butane and methane

It has to be noted that the cause of fire does not determine the type of extinguisher but the flammable liquid is the determining factor.





### Technical Specifications of Powder Product Group

Nominal Capacity (kg)		1	2	3	4	6	9	12	25	50
Gas Pressure (bar)		17/5	17/5	17/5	17/5	17/5	17/5	17/5	17/5	17/5
Dimensions	Total Height (cm)	33	33	43	41	51	51	58	70	90
	Outside Diameter (mm)	89	115	115	151	151	151	185	300	300
	Thickness (mm)	1/52	1/5	1/5	1/5	1/5	1/5	1/5	2/5	2/5
Empty Cylinder Weight (kg)		0/700	1/500	1/700	1/860	2/400	3/500	4/200	15	21
Valve	Compression Valve	✓	✓	✓	✓	✓	✓	✓	–	–
	Lever Valve	–	–	–	–	–	–	–	✓	✓
Belongings	Cylinder Cart	–	–	–	–	–	–	–	✓	✓
	Trumpet Hose	–	–	–	✓	✓	✓	✓	✓	✓
	Discharge Nozzle	✓	✓	✓	–	–	–	–	–	–
	Wall Bracket	✓	✓	✓	✓	✓	✓	✓	–	–

### Water-air Foam Extinguishers

In view of the similarity between the compressed water – air foam cylinders and water and gas with powder cylinders, the company produced and supplied this category of products in 25 ,10 ,6 and 50 kg weights. they are designed to meet the specific application conditions and preventing corrosion.

### Technical Specifications of Water-air Foam Extinguisher

Nominal Capacity (kg)		4	6	10	25	50
Gas Pressure (bar)		17/5	17/5	17/5	17/5	17/5
Dimensions	Total Height (cm)	41	51	63	70	90
	Outside Diameter (mm)	151	151	185	300	300
	Thickness (mm)	1/5	1/5	1/5	2/5	2/5
Empty Cylinder Weight (kg)		1/860	2/400	4/200	15	21
Valve	Compression Valve	✓	✓	✓	–	–
	Lever Valve	–	–	–	✓	✓
Belongings	Cylinder Cart	–	–	–	✓	✓
	Trumpet Hose	✓	✓	✓	✓	✓
	Discharge Nozzle	–	–	–	–	–
	Wall Bracket	✓	✓	✓	–	–
Foam Type		AFFF	AFFF	AFFF	AFFF	AFFF

- Working pressure is 175 bar, test pressure is 25 bar, & burst test pressure is 55 bar.
- The cylinder coated-surface is painted in red with a minimum 50 micron thickness, using electrostatic furnace powder coating process; and to improve the adhesive strength, corrosion and scratch resistance of paint, phosphating and degreasing process are used to make the surface pre-painting arrangements.
- Guidance to use the product are included in the label, while the standard symbol, and date of manufacture are stamped onto the cylinder shoulder.
- Control valves are made of brass in compliance with Din447 standard.
- The product is supplied with a 5-year warranty period for cylinder body together with a one-year civil liability coverage.



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