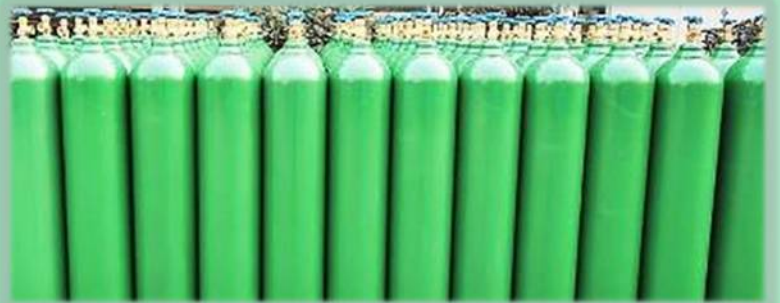


STEEL SEAMLESS GAS CYLINDERS

MED

BECKHEIM MANUFACTURING AND TRADING LIMITED (PVT) LTD

MED Birlesim is one professional exporter of gases equipment's and oxygen cylinders, carbon dioxide cylinders, argon cylinders, nitrogen cylinders, hydrogen cylinders, sulfur hexafluoride cylinders, helium cylinders, acetylene cylinders, liquefied gas cylinders and other gas cylinders.



Our company is located in Istanbul and Ankara. It currently has technical staff (engineers, technicians and workers) who are capable of physical and chemical testing, non-destructive testing, material analysis, and Inspection and test of mechanical properties.

The implementation of quality management of the cylinders, while ensuring the provision of quality products, pay more attention to environmental protection and the physical and mental health of employees, to ensure the scientific, efficient, sustainable and healthy development of the company.



Our company can supply various new empty gas cylinders (work pressure-150 bar or 200 bar) as standard-ISO9809 & GB5099, various new empty acetylene cylinders as standard-ISO3807 & GB11638, various gas valves as standard-QF/CGA/BS, new empty aluminum cylinder as standard-GB11640, cryogenic liquid storage tank as standard-GB510 and other type gas equipment's for the global customers.





Our company has the qualification to produce steel seamless gas cylinders. The products have the CG5099, ISO9809-1, ISO9809-3 quality certification, and passed the strict certifications, an international authority. We have implemented a strict and complete quality control system, which ensures that each product can meet the quality requirement of customers. In addition, all of our products have been strictly inspected before shipment. Our cylinders have won praise from customers worldwide. All our customer only use one order can purchase multiplicate gas equipment's which they need only by our hand. With economic globalization, our company sticks to the tenet of "Quality First, Customer Supreme", strengthens cooperation with domestic and foreign merchants with first-rate product quality and good service. Our cylinders have



been exported to Romania, Bulgaria, Russia, Argentina, Ecuador, Brazil, Bolivia, Ethiopia, Ghana, Nigeria, South Africa, Vietnam, Malaysia, Myanmar, India, Saudi Arabia, etc. We are making great efforts to achieve this win-win situation. We believe that we will become your eternal partner in the future.

Cylinder Types

Steel cylinders are divided into welded steel cylinders and seamless steel cylinders according to different processing methods and design pressures. According to the different internal media, it is divided into civil liquefied petroleum gas cylinders, ordinary industrial gas cylinders and dissolved acetylene gas cylinders. According to the design pressure: high pressure (300, 200, 150, 125kgf/cm²) and medium and low pressure (80, 50, 30, 20, 10kgf/cm²). The high-pressure gas cylinder must be a seamless structure, and the welded gas cylinder is used to contain low-pressure gas. At present, my country's steel cylinders (cylinders) are divided into: seamless gas cylinders (aluminum alloy gas cylinders), welded gas cylinders, liquefied petroleum gas, dissolved acetylene gas cylinders and special gas cylinders.



Cylinder accessories generally refer to bottle caps, bottle valves, fusible alloy plugs and shock-proof rings. From the operating mechanism, the bottle valve can be divided into six types: pin type, sleeve type, hook shaft type, needle type, diaphragm type and ball pressure type; classified by material, it is divided into copper valve, steel valve, etc.; according to gas The filling state is divided into permanent gas bottle valve, liquefied gas bottle valve, and dissolved gas bottle valve; from the sealing form, it can be divided into metal seal and non-metal seal.





Several material classifications of seamless gas cylinders

Seamless gas cylinders are classified according to manufacturing materials:

1. Steel seamless gas cylinders are steel cylinders that are made of steel billet as raw material, manufactured by stamping and drawing, or made of seamless steel pipes, and manufactured by hot spinning and closing. The material of the bottle body is killed steel smelted by alkaline open-hearth furnace, electric furnace or oxygen blowing alkaline converter, such as high-quality carbon steel, manganese steel, chromium molybdenum steel or other alloy steel. Used to hold long-term gas (compressed gas) and high-pressure liquefied gas.
2. Steel welded gas cylinders are steel cylinders manufactured by stamping and welding with steel plates as raw materials. The material of the bottle body and pressure components is killed steel smelted in an open hearth, electric furnace or oxidizing converter, and the material is required to have good stamping and welding properties. This type of gas cylinder is used to hold low-pressure liquefied gas.
3. Winding glass fiber gas cylinder is a gas cylinder made of glass fiber plus binder winding or carbon fiber. Generally, there is an aluminum inner cylinder, whose function is to ensure the air-tightness of the cylinder, and the pressure-bearing strength depends on the outer cylinder wrapped with glass fiber. This type of cylinder is mostly used for holding compressed air for breathing due to its good thermal insulation performance and lightweight. The workers in fire-fighting, poisonous or hypoxic areas, carry them on their backs and wear masks. Generally, the volume is small (1-10L), and the inflation pressure is mostly 15-30MPa.

The important principles when using oxygen cylinders

in the process of using the cylinder, strictly following the principles of using the cylinder can ensure the safety of the cylinder.

The below principles should be followed in the use of steel cylinders.

High-pressure gas cylinders must be stored in different places in different categories, and they should be fixed and safe when placed upright.

Gas cylinders should be kept away from heat sources to avoid exposure and strong vibration.

The number of gas cylinders in the laboratory is generally not should be more than two on the shoulders of the cylinder.

The following signs should be marked with a steel stamp: manufacture date

cylinder model, working pressure
air pressure, test pressure
air pressure test date and
next delivery date, gas volume
cylinder weight in order to avoid
using the various confusion when
planting steel cylinders, the cylin-
ders are often painted with differ-
ent colors and the names of the
gases in the cylinders.

The pressure reducer selected on the high-pressure gas cylinder should be classified and dedicated.

Recommendations:

the screws are tightened to prevent leakage

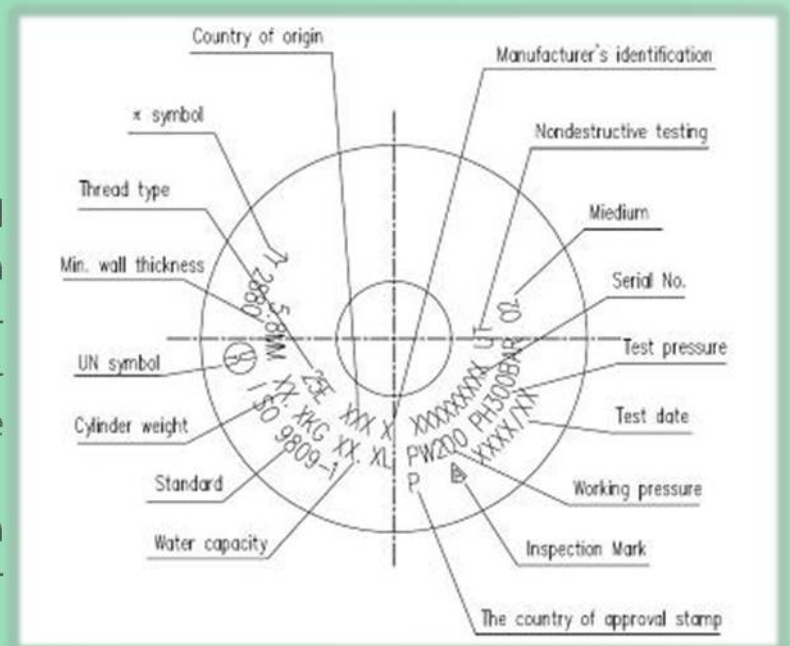
when opening and closing the pressure reducer and on-off valve, the action must be slow

when the oxygen manufacturer uses it, it should be opened first the on-off valve is then the pressure reducer

when it is used up, first close the on-off valve, and then close the pressure reducer after exhausting the remaining air. Do not just turn off the pressure reducer, do not close the on-off valve.

When using high-pressure gas cylinders, the operator should stand in a position perpendicular to the gas cylinder interface during operation. Knocking or impact is strictly prohibited, and frequent checks for air leaks.

Pay attention to the reading of the pressure gauge.



The requirements for placing oxygen cylinders

The model used in the current situation may be temporarily applicable, but changes in usage over time should be considered.

Treatment or adjuvant treatment: Due to the need for regular quantitative treatment and continuous treatment, the dosage per unit time period will be relatively large, and with the change of the disease, the oxygen consumption is constantly changing. Oxygen cylinders are recommended using 15-liter or higher models for daily health care: From the perspective of daily health care, oxygen consumption is relatively stable. The specific measurement method can be combined with the calculation of the cost to determine the appropriate household oxygen cylinder. With the continuous development of the economy, the progress of the industry is obvious to all. In the different industries, there are different types of equipment available, including industrial gas cylinders.



The requirements for the use and placement of gas cylinders:

The anti-dumping measures are reliable in use. If the remaining volume in the bottle is greater than 0.05Mpa, and the site inventory with a filling volume of 0.5-1 liquefied gas is less than 5 bottles and more than 5-20 bottles, fire and explosion-proof measures should be taken. If it is a warehouse above level 2, the open flame distance is greater than 10 meters and the combustion aid is 5 meters, and it is strictly prohibited to use the temperature exceeding 40 °C. Oxygen cylinder manufacturers indicate that oxygen cylinders and industrial gas cylinders should not be near heat sources, electrical equipment, grease and other flammable materials.



When using industrial gas cylinders, pay attention to fixing them to prevent tipping.

It is strictly prohibited to use lying down. For industrial gas cylinders that have been lying down, it is not allowed to directly open the gas cylinder and stand for 15 minutes before use, and then connect the pressure reducer.

When using, transporting and storing industrial gas cylinders, the ambient temperature should not exceed 30°C, and the gas cylinders should be placed up-right with measures to prevent overturning.

Do not place it on rubber and other insulators.

The distance between the gas cylinder and the open flame shall not be less than 20 meters.



Type	Outside Diameter (mm)	Water Capacity (Liter)	Height (without Valve) (mm)	Weight (without valve/cap) (Kg)	Working Pressure (Bar)	Test Pressure (Bar)	Design Wall Thickness (mm)	Material
WMA140-4-15	140	4	380	6,3	150	225	3,6	37Mn
WMA140-6-15		6	530	8,3				
WMA140-8-15		8	680	10,3				
WMA140-10-15		10	830	12,3				
WMA152-8-15	152	8	580	9,9	150	225	3,6	37Mn
WMA152-10-15		10	700	11,6				
WMA152-12-15		12	820	13,4				
WMA152-15-15		15	1000	16				
WMA159-10-15	159	10	635	11,2	150	225	3,6	37Mn
WMA159-12-15		12	750	13				
WMA159-15-15		15	920	15,6				
WMA159-18-15		18	1090	18,2				
WMA219-20-15	219	20	690	23,9	150	225	5,0	37Mn
WMA219-23-15		23	780	26,2				
WMA219-26-15		26	870	29,2				
WMA219-29-15		29	950	30,9				
WMA219-32-15		32	1040	34,0				
WMA219-34-15		34	1100	35,6				
WMA219-36-15		36	1160	37,3				
WMA219-38-15		38	1220	39,2				
WMA219-40-15		40	1280	41,0				
WMA219-42-15		42	1340	42,2				
WMA219-45-15		45	1.430	45,7				
WMA219-47-15		47	1490	47,1				
WMA219-50-15		50	1575	49,3				
WMA219-21-15	219	21	730	27,5	150	225	5,7	37Mn
WMA219-23-15		23	790	29,5				
WMA219-25-15		25	850	31,5				
WMA219-28-15		28	940	34,5				
WMA219-30-16		30	1000	36,5				
WMA219-32-15		32	1060	38,5				
WMA219-34-15		34	1120	40,4				
WMA219-36-15		36	1180	42,4				
WMA219-38-15		38	1240	44,4				
WMA219-40-15		40	1300	46,4				
WMA219-42-15		42	1360	48,4				
WMA219-45-15		45	1450	51,3				
WMA219-47-15		47	1510	53,3				
WMA219-50-15		50	600	56,3				
WMA232-38-15	232	38	1110	41,3	150	225	5,4	37Mn
WMA232-40-15		40	1160	43				
WMA232-42-15		42	1215	44,8				
WMA232-45-15		45	1290	47,3				
WMA232-47-15		47	1345	49,2				
WMA232-50-15		50	1425	51,9				
WMA232-52-15		52	1480	53,7				
WMA232-48-15	232	38	1120	45,7	150	225	6,0	37Mn
WMA232-40-15		40	1175	47,8				
WMA232-42-15		42	1230	49_9				
WMA232-45-15		45	1305	52,6				
WMA232-47-15		47	1365	54,9				
WMA232-50-15		50	1445	57,9				
WMA232-52-15		52	1495	59,7				

Lot 3

Lot 3

LIST OF GAS FILLING MATERIALS

No	Gas Name	Chemical Formula	Working Pressure (Bar)	Filling Factor (Kg/L)	Hydrostatic Test Pressure (Bar)	Air Test Pressure (Bar)	Recommended Cylinder Valve Model (PZ27.8)	
1	Oxygen	O2	150	/	225,0	150	OF-2	CGA54013
2	Hydrogen	H2	150	/	225,0	150	QF-30A	
3	Nitrous	N	150	/	225,0	150	QF-2	
4	Argon	Ar	150	/	225,0	150	PX 32A	CGA580BD
5	Helium	He	150	/	225,0	150	PX-32A	
6	Neon	Ne	150	/	225,0	150	PX-32A	
7	Krypton	Kr	150	/	225,0	150	PX-32A	
8	Dry Air	Air	150	/	225,0	150	QF-2	
9	Methane	CH4	150	/	225,0	150	QF-30A	
10	Nitric Oxide	NO	150	/	225,0	150	QF-1	
11	Carbon Monoxide	CO	150	/	225,0	150	QF-30A	
12	Carbon Dioxide	CO2	150	0,60	225,0	150	QF-2A	
13	Sulfur Hexafluoride	SF6	125	1,33	225,0	125	QF-2J	QF-2C9
14	Sulfur Hexafluoride	SF6	80	1,17	225,0	80	QF-2J	
15	Trifluoromethane	CHF3	125	0,76	225,0	125	QF-30A	
16	Hexafluoroethane	C2F6	125	1,06	225,0	125	QF-30A	
17	Hexafluoroethane	C2F6	80	0,83	225,0	80	QF-30A	
18	Xenon	Xe	125	1,23	225,0	125	PX-32A	
19	Ethane	C2H6	150	0,34	225,0	150	QF-30A	
20	Ethane	C2H6	125	0,31	225,0	125	QF-30A	
21	Ethene	C2H4	150	0,28	225,0	150	OF-30A	
22	Ethene	C2H4	125	0,24	225,0	125	QF-30A	
23	1,2-Difluoroethylene	C2H2F2	125	0,66	225,0	125	QF-30A	
24	1,2-Difluoroethylene	C2H2F2	80	0,46	225,0	80	QF-30A	
25	Silane	SiH4	150	0,30	225,0	150	QF-30A	
26	Hydrogen Chloride	HCl	125	0,57	225,0	125	QF-1B	
27	Nitrous Oxide	N2O	150	0,62	225,0	150	QF-2A2	CGA326
28	Phosphane	PH3	150	0,20	225,0	150	QF-90D	ZF-15
29	Boron Trifluoride	BF3	150	0,72	225,0	150	QF-1H	
30	Carbon Tetrafluoride	CF4	150	/	225,0	150	QF-1H	
31	Nitrogen Trifluoride	NF3	125	0,62	225,0	125	QF-1H	
32	Mix	Ar-M	150	/	225,0	150	PX-32A	
33	Mix	Ar-M-F	150	/	225,0	150	QF-30A	
34	Mix	N -M-F	150	/	225,0	150	QF-30A	
35	Mix	N2-M	150	/	225,0	150	QF 2	
36	Ammonia	NH3	30	0,53	225,0	30	QF-11	
37	Chlorine	Cl2	20	1,25	225,0	20	QF-10	
38	Boron Trichloride	BCl3	10	1,20	225,0	10	QF-11	
39	Halon	CF3Br	40	1,20	225,0	40	QF-13A	
40	Sulfur Dioxide	SO2	20	1,23	225,0	20	QF-10	
41	High Purity Gas	---	150		225,0	150	QF-90A	
42	Corrosion Resistant Gas	----	150		225,0	150	QF-1	S/s special

Type	Outside Diameter (mm)	Water Capacity (Liter)	Height (without Valve) (mm)	Weight (without valve/cap) (Kg)	Working Pressure (Bar)	Test Pressure (Bar)	Design Wall Thickness (mm)	Material
WMA140-4-15	140	4	390	7,1	150	250	3,6	37Mn
WMA140-5-15		5	460	8,2				
WMA140-6-15		6	530	9,3				
WMA140-7-15		7	600	40,4				
WMA140-8-15		8	670	11,5				
WMA140-9-15		9	740	12,5				
WMA140-10-15		10	810	13,6				
WMA152-7-15	152	7	524	10,6	150	250	4,0	37Mn
WMA152-8-15		8	586	11,6				
WMA152-9-15		9	648	12,6				
WMA152-10-15		10	710	13,6				
WMA152-12-15		12	834	15,6				
WMA152-13-15		13	896	16,6				
WMA152-14-15		14	958	17,6				
WMA152-15-15		15	1020	18,6				
WMA159-10-15	159	10	370	14,8	150	250	4,2	37Mn
WMA159-12-15		12	785	16,9				
WMA159-15-15		15	955	19,9				
WMA159-18-15		18	1130	211				
WMA219-20-15	219	20	700	25,9	150	250	5,3	37Mn
WMA219-25-15		25	850	30,6				
WMA219-32-15		32	1060	37,1				
WMA219-36-15		36	1180	40,8				
WMA219-37-15		37	1210	41,8				
WMA219-38-15		38	1240	42,7				
WMA219-40-15		40	1300	445				
WMA219-42-15		42	1360	46,4				
WMA219-45-15		45	1450	49,2				
WMA219-50-15		50	1600	53,9				
WMA219-20-15	219	20	715	28	150	250	5,7	37Mn
WMA219-25-15		25	865	33				
WMA219-32-15		32	1075	40				
WMA219-36-15		36	1195	44				
WMA219-37-15		37	1225	45				
WMA219-38-15		38	1255	46				
WMA219-40-15		40	1315	48				
WMA219-42-15		42	1375	50				
WMA219-45-15		45	1465	54				
WMA219-50-15		50	1615	60				
WMA232-38-15	232	38	1130	45,5	150	250	6,0	37Mn
WMA232-40-15		40	1180	47,4				
WMA232-45-15		45	1320	52,6				
WMA232-46-15		46	1340	513				
WMA232-47-15		47	1370	54,5				
WMA232-50-15		50	1450	57,5				
WMA232-52-15		52	1500	59,3				

GB/T5099.1 STANDARD STEEL CYLINDERS

Type	Outside Diameter (mm)	Water Capacity (Liter)	Height (without Valve) (mm)	Weight (without valve/cap) (Kg)	Working Pressure (Bar)	Test Pressure (Bar)	Design Wall Thickness (mm)	Material
WGA232-38-20	232	38	1100	40,9	200	300	5,2	34CrMo4
WGA232-40-20		40	1160	42,6				
WGA232-42-20		42	1215	44,4				
WGA232-45-20		45	1295	47				
WGA232-47-20		47	1345	48,6				
WGA232-50-20		50	1425	51,2				
WGA232-52-20		52	1475	52,8				
WGA232-36-20	232	38	1120	44,9	200	300	5,8	34CrMo4
WGA232-40-20		40	1175	46,8				
WGA232-42-20		42	1225	48,6				
WGA232-45-20		45	1305	51,5				
WGA232-47-20		47	1360	53,4				
WGA232-50-20		50	1440	56,3				
WGA232-52-20		52	1490	58,1				

ISO9809 -1 STANDARD STEEL CYLINDERS

Type	Outside Diameter (mm)	Water Capacity (Liter)	Height (without Valve) (mm)	Weight (without valve/cap) (Kg)	Working Pressure (Bar)	Test Pressure (Bar)	Design Wall Thickness (mm)	Material
WZA232-38-15	232	38	1130	44	150	250	5,4	37Mn
WZA232-40-15		40	1180	46				
WZA232-45-15		45	1320	50				
WZA232-46-15		46	1345	51				
WZA232-46.7-15		46,7	1360	52				
WZA232-47-15		47	1370	52				
WZA232-50-15		50	1445	55				
WZA232-52-15		52	1505	57				
WGA232-38-20	232	38	1110	40,2	200	300	5,2	34CrMo4
WGA232-40-20		40	1165	42,1				
WGA232-45-20		45	1295	46,3				
WGA232-46-20		46	1320	47,1				
WGA232-46.7-		46,7	1335	47,6				
WGA232-47-20		47	1345	48				
WGA232-40-20		50	1425	50,6				
WGA232-52-20		52	1480	52,4				
WGA232-38-20	232	38	1155	44,5	200	300	5,8	34CrMo4
WGA232-40-20		40	1180	46,5				
WGA232-45-20		45	1310	51,2				
WGA232-46-20		46	1340	52,3				
WGA232-46.7-		46,7	1360	53,0				
WGA232-47-20		47	1370	53,3				
WGA232-40-20		50	1450	56,3				
WGA232-52-20		52	1500	58,0				

GB/T 5842 STANDARD STEEL CYLINDERS

Type	Outside Diameter (mm)	Water Capacity (Liter)	Height (without Valve) (mm)	Weight (without valve/cap) (Kg)	Working Pressure (Bar)	Test Pressure (Bar)	Design Wall Thickness (mm)	Material
YS P35.5-00	314	35,5	680	16,2	2,1	3,2	2,5	HP295
YS P26.2-00	294	26,2	596	14			2,4	
YSP12-00	244	12	413	6,5			2,0	
YSP118-00	400	118	1185	51,2			3,2	
YSP118-11	400	118	1200	48			3,2	
ISO26,5	294	26,5	590	14	1,8	3,4	2,5	

GB/T 5100 STANDARD STEEL CYLINDERS

Type	Outside Diameter (mm)	Water Capacity (Liter)	Height (without Valve) (mm)	Weight (without valve/cap) (Kg)	Working Pressure (Bar)	Test Pressure (Bar)	Design Wall Thickness (mm)	Material
HJLII-250-40-	250	40	920	20,1	2,2	3,3	2,4	HP295
HJLII-300-72-	300	72	1160	30	2,2	3,3	2,5	HP295
HJLII-400-118-	400	118	1200	51,2	2,2	3,3	3,3	HP295

COMMONLY USED TAPER THREAD DIMENSIONS FOR GAS CYLINDERS

Thread Code	Number of Thread	Pitch	Tooth Angle	Taper	Base Surface Diameter	Base Path	Thread Length	Small-end aperture	Refer to the selection of drill bits	Standard
PZ19.2	14	1,814	55°	3:25	19,200	16,876	19	14,59	14,5	GB8335
PZ27.8	14	1,814	55°	3:25	27,800	25,476	22	22,83	21,5	
PZ39	12	2,117	55°	3:25	39,000	36,290	22	33,65	32	
1/2-14NGT	14	1,814	60°	1:16	21,223	18,321	18,2	17,18	17	FED-STD-H28/9
3/4-14NGT	14	1,814	60°	1:16	26,568	23,667	18,2	22,53	21	
1-11,5NGT	11,5	2,209	60°	1:16	33,228	29,695	22,1	28,31	27	
11/4-11.5NGT	11,5	2,209	60°	1:16	41,985	38,451	22,1	37,07	36	
11/2-11.5NGT	11,5	2,209	60°	1:16	48,054	44,520	22,1	43,14	41,5	
2-11.5NPT	11,5	2,209	60°	1:16	60,092	56,558	22,1	55,18	54	FED-STD-H28/7
1 x 14BS	14	1,814	55°	1:8	27,788	25,461	25,4	22,3	21	BS341-1962
25T	14	1,814	55°	3:25	27,800	25,476	22	22,83	21,5	BS341-1991
W20-14	14	1,814	55°	3:26	20,000	17,676	19	15,48	14,5	JISB8241
W28-14	14	1,814	55°	3:26	28,000	25,676	22	23,14	21,5	
RC3/4	14	1,814	55°	1:16	26,441	24,117	18,2	22,98	21	GB7306
RC11/2	11	2,309	55°	1:16	47,803	44,845	23,1	43,40	42	
W19.8x1/14keg	14	1,814	55°	3:25	19,200	16,878	19	14,5	14,5	DIN477
W28.8 x1/14keg	14	1,814	55°	3:25	27,800	25,476	22	22,83	21,5	
25E	14	1,814	55°	3:25	27,800	25,476	22	22,83	21,5	EN629/ISO11363-1

Cylinder Category	Nr.	Gas Name	Chemical Formula	Cylinder Body Color	Font Color
Compressed Gas	1	Oxygen	O2	Light blue	Black
	2	Hydrogen	H2	Light green	Red
	3	Nitrogen	N2	Black	White
	4	Argon	Ar	Silver Grey	Dark green
	5	Helium	He	Silver Grey	Dark green
	6	Neon	Ne	Silver Grey	Dark green
	7	Krypton	Kr	Silver Grey	Dark green
	8	Dry Air	AIR	Black	White
	9	Methane	CH4	Brown	White
	10	Nitrogen Monoxide	NO	White	Black
	11	Carbon Monoxide	CO	Silver Grey	Red
High-Pressure Liquefied Gas	1	Carbon Dioxide	CO2	White	Black
	2	Sulfur Hexafluoride	SF6	Silver Grey	Black
	3	Trifluoromethane	CHF3	Aluminum white	Black
	4	Hexafluoroethane	C2F6	White	Black
	5	Xenon	Xe	Silver Gery	Dark green
	6	Ethane	C2H6	Brown	White
	7	Ethene	C2H4	Brown	Light Yellow
	8	1,2-Difluoroethylene	C2H2F2	Silver Grey	Red
	9	Silane	SiH4	Silver Grey	Red
	10	Hydrogen Chloride	HCl	Silver Grey	Black
	11	Nitrous Oxide	N2O	Silver Grey	Black
	12	Phosphane	PH3	White	Red
	13	Boron Trifluoride	BF3	Silver Gray	Black
	14	Tetrafluoromethane	CF4	Aluminum White	Black
	15	Nitrogen Trifluoride	NF3	Aluminum White	Black
Mixed Composition	1	80%/20%	Ar-M	Top green, Bottom Silver Grey	Green
		80%/20%			
		90%/10%			
		90%/10%			
	2	80%/20%	N2-M-F	Top Red, Bottom Silver Grey	Red
		95%/5%			
	3	70%/30%	N2-M	Top Green, Bottom Slver Grey	Green
Low-Pressure Liquefied Gas	4	75%/25%	Ar-M-F	Top Red, Bottom Silver Grey	Red
	1	Ammonia	NH3	Light Yellow	Black
	2	Chlorine	Cl2	Dark Green	White
	3	Boron Trichloride	BCl3	Silver Grey	Black
	4	Halon	CF3Br	White	Black
	5	Sulfur Dioxide	SO2	Silver Grey	Black

VALVE SPECIFICATIONS

TYPE	INLET THREAD	OUT THREAD	Service pressure	SAFETY DEVICE	MIEDIA
QF-2	PZ27. 8	G5/8EXternal thread	150bar	202.5bar-225.0bar	O2.N2.AIR
QF-2A	PZ27. 8	G5/8EXternal thread	150bar	202.5bar-225.0bar	CO2
QF-2A1	PZ27. 8	G3/8	150bar	202.5bar-225.0bar	N2O.N2O
QF-2A2	PZ27. 8	CGA320 (0. 825-14NG0)	150bar	202.5bar-225.0bar	CO2
QF-2A3	PZ27. 8	CGA326(0. 825-14NG0)	150bar	202.5bar-225.0bar	N2O.N2O
QF-2A4	PZ27.8	7/8-14UNF	150bar	202.5bar-225.0bar	CO2
QF-2A5	25E	W21.7-1/14	150bar	202.5bar-225.0bar	CO2
QF-2A6	3/4-14NGT	W21.8-14EXternal thread	150bar	202.5bar-225.0bar	CO2
QF-2A7	PZ27.8	BS341-N08(0.860)	150bar	202.5bar-225.0bar	CO2
QF-2A8	PZ27. 8	W21. 8T4EXternal thread	150bar	202.5bar-225.0bar	CO2
QF-2A9	3/4-14NGT	11/16-20TPI	150bar	202.5bar-225.0bar	N2O.N2O
QF-2B	PZ27. 8	G5/8-14LeftEXternal thread	150bar	202.5bar-225.0bar	O2.N2.AIR
QF-2B3	3/4-14NGT	G5/8EXternal thread	150bar	202.5bar-225.0bar	O2.N2.AIR
QF-2C	PZ27. 8	G5/8EXternal thread	150bar	/	O2.N2.AIR
QF-2C7	PZ27. 8	W21. 8T4EXternal thread	150bar	/	O2.N2.AIR
QF-2C7A	3/4-14NGT	W21. 8T4EXternal thread	150bar	/	O2.N2.AIR
QF-2C9	PZ27. 8	G5/8EXternal thread	150bar	/	SF6
QF-2C13	G1/2	G5/8EXternal thread	150bar	/	O2.N2.AIR
QF-2D	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-2D1	BS341-1"	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-2G	PZ27. 8	G3/4-1/14	150bar	202.5bar-225bar	O2.N2.AIR
QF-2G1	PZ27. 8	G5/8(Internal thread)	150bar	202.5bar-225bar	O2.N2.AIR
QF-2G1B	PZ27. 8	G5/8 LH (Internal thread)	150bar	20. 25-22. 50bar	H2
QF-2G1C	PZ27. 8	G3/4EXternal thread	150bar	202.5bar-225bar	O2.N2.AIR
QF-2G1D	PZ19. 2	G3/4EXternal thread	150bar	202.5bar-225bar	O2.N2.AIR
QF-2H	PZ27. 8	W24.32-1/14	150bar	/	O2.N2.AIR
QF-2L	M18*1.5	G5/8EXternal thread	150bar	20.25-22. 50bar	O2.N2.AIR
QF-2M	PZ27. 8	G1/2EXternal thread	150bar	20.25-22. 50bar	CO2
QF-2Z	PZ27. 8	G3/4EXternal thread	150bar	/	O2.N2.AIR
F-2M	PZ27. 8	W22-1/14	150bar	202.5bar-225bar	O2.N2.AIR
F-2M1	PZ27. 8	W22-1/14LH	150bar	202.5bar-225bar	H2
F-3	PZ27. 8	65/8(Internal thread)	150bar	20. 25-22. 50bar	O2.N2.AIR
F-4	PZ27. 8	G5/8(Internal thread)	150bar	20.25-22. 50bar	O2.N2.AIR
F-4B	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-2P	PZ27. 8	W21.8-14EXternal thread	150bar	20.25-22. 50bar	O2.N2.AIR
QF-2P2	3/4-14NGT	W21. 8T4EXternal thread	150bar	/	O2.N2.AIR
QF-2P1	PZ27. 8	W21.8-14EXternal thread	150bar	/	O2.N2.AIR
QF-2P3	PZ27. 8	CGA320(0. 825-14NGO)	150bar	20. 25-22. 50bar	CO2
QF-4C	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-5	PZ27. 8	G5/8EXternal thread	200bar	270~300bar	O2.N2.AIR
QF-5A	PZ27. 8	G5/8EXternal thread	200bar	/	O2.N2.AIR
QF-5A1	PZ27. 8	W21. 8T4EXternal thread	200bar	/	O2.N2.AIR
QF-5B	3/4-14NGT	W21. 8T4EXternal thread	200bar	27~300bar	O2.N2.AIR
QF-5E	25E	W21.8-14EXternal thread	200bar	27~300bar	O2.N2.AIR
QF-6	PZ27. 8	G5/8EXternal thread	150bar	202.5bar-225bar	O2.N2.AIR
QF-6A	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-6A1	BS341-P	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-6A2	3/4-14NGT	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-6D	3/4-16UNF	G5/8(Internal thread)	150bar	20. 25-22. 50bar	O2.N2.AIR
QF-6F	3/4-14NGT	G3/4EXternal thread	150bar	202.5bar-225bar	O2.N2.AIR
QF-7B	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-7B1	BS341T	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-7D	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-7D2	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
QF-7D2	PZ27. 8	G5/8Left(Internal thread)	150bar	/	H2
QF-7E	PZ27. 8	G5/8(Internal thread)	200bar	/	O2.N2.AIR
QF-8	PZ27. 8	G1/2EXternal thread	150bar	/	O2.N2.AIR
QF-8A	PZ27. 8	W21. 8T4EXternal thread	150bar	/	O2.N2.AIR
QF-10	PZ27. 8	G3/4EXternal thread	20bar	/	CL2
QF-13	PZ27. 8	G3/4EXternal thread	12.50bar	/	CFCS
QF-13A	PZ27. 8	G3/4EXternal thread	150bar	/	CFCS
QF-13B	BS341T"	G3/4EXternal thread	150bar	/	O2.N2.AIR
QF-15F	PZ27. 8	G5/8-LH(Internal thread)	30bar	/	C2H2O
QF-15F1	PZ27. 8	G5/8-LH(Internal thread)	30bar	100° +5°	C2H2O
QF-20	PZ19. 2	G1/2EXternal thread	150bar	20.25-22. 50bar	O2.N2.AIR
QF-21	PZ19. 2	W21. 8-14	150bar	20.25-22. 50bar	O2.N2.AIR
QF-21A	PZ19. 2	W21. 8-14	150bar	/	O2.N2.AIR
QF-011	PZ19. 2	W21. 8-14	150bar	/	O2.N2.AIR
QF-23	PZ27. 8	W21.8-14	150bar	20.25-22. 50bar	O2.N2.AIR
QF-28	PZ27. 8	G5/8(Internal thread)	200bar	/	O2.N2.AIR
QF-28A	PZ27. 8	G5/8(Internal thread)	200bar	/	O2.N2.AIR
QF-30A	PZ27. 8	W21. 8T4(Left)	150bar	/	H2
QF-30A1	PZ27. 8	W21. 8-14(Left)	150bar	/	H2
QF-30C	PZ27. 8	8(Left)	150bar	/	H2

VALVE SPECIFICATIONS

TYPE	INLET THREAD	OUT THREAD	Service pressure	SAFETY DEVICE	MEDIA
QF-35	1.125-12UNF	CGA320(0.825-14NG0)	150bar	20. 25-22. 50bar	CO2
QF-35C	1.125-12UNF	G1/2EXternal thread	150bar	20.25-22. 50bar	CO2
QF-35C6	1.125-12UNF	W21.8-14RH	150bar	20.25-22. 50bar	CO2
QF-35D	M25*2	G5/8EXternal thread		202.5bar-225bar	O2.N2.AIR
QF-40A	25E	G5/8 Internal thread		27~300bar	1
QF-40A1	PZ27. 8	G5/8 Internal thread	200bar	27-300bar	1
QF-40A2	BS341-1	G5/8 Internal thread		27~300bar	1
QF-40A3	PZ27. 8	CGA580		27-300bar(4833psi	1
QF-40A4	PZ27. 8	W23-1/14		27~300bar	O2.N2.
QF-40B	PZ27. 8	G5/8EXternal thread		/	1
QF-40B1	PZ27. 8	W21. 8EXternal thread(Left)	200bar	/	H2
QF-40B2	25E	W21. 8EXternal thread	200bar	/	1
QF-40C	PZ27. 8	G5/8EXternal thread	200bar	27-300bar	1
QF-42	PZ27. 8	G5/8(Internal thread)	200bar	/	O2.N2.AIR
QF-42B	BS341-1	G5/8(Internal thread)		/	O2.N2.AIR
QF-42D	PZ27. 8	G5/8 Internal thread(Left)	200bar	/	
QF-42E	25E	G5/8(Internal thread)		/	O2.N2.AIR
QF-90A	PZ27. 8	G5/8EXternal thread		/	High purity gas
QF-90D	PZ27. 8	W21. 8-14(Left)	150bar	/	High purity gas
QF-90H	PZ27.8	G5/8 Internal thread	150bar	/	High purity gas
PX-32A	PZ27. 8	G5/8EXternal thread	150bar	/	O2
PX-32A1	PZ27. 8	G5/8EXternal thread	200bar	/	4
PX-32A3	PZ27. 8	W21. 8-14	150bar	/	2
PX-35	PZ27. 8	G5/8EXternal thread	150bar	20. 25-22. 50bar	2 N2O
F-3	PZ27. 8	G5/8(Internal thread)	150bar	202.5bar-225bar	O2.N2.AIR
F-4	PZ27. 8	G5/8(Internal thread)	150bar	20.25-22. 50bar	O2.N2.AIR
F-4B	PZ27. 8	G5/8(Internal thread)	150bar	/	O2.N2.AIR
BWF-1	PZ27. 8	M22*1. 5 Internal thread(Left)	2. 50bar	3. 40bar	LPG
BWF-1A	PZ27. 8	CGA510(0. 885-14NG0)	2. 50bar	3. 40bar	LPG
BWF-1D	PZ27. 8	G5/8-14LH Internal thread	2. 50bar	3. 40bar	LPG
SAW-3	JISB8246V2	W22-14(Left)	150bar	/	3
SAW-4	PZ27. 8	W22-14(Left)	150bar	/	3
QFTH1	PZ27. 8	G3/4EXternal thread	150bar	/	MIXED GAS
CGA320	PZ27. 8	(0. 825-14NG0)	2175psi	36255psi	CO2
CGA320A	3/4-14NGT	(0. 825-14NG0)	2175psi	36255psi	CO2
CGA326	PZ27. 8	(0. 825-14NG0)	2175psi	36255psi	N2O
CGA326A	3/4-14NGT	(0. 825-14NG0)	2175psi	36255psi	N2O
CGA350	PZ27. 8	0. 825-14NG0(Left)	2175psi	36255psi	H2
CGA350A	3/4-14NGT	0. 825-14NG0(Left)	2175psi	36255psi	H2
CGA540	PZ27. 8	Q.903-14NG0	2175psi	36255psi	O2.N2.AIR
CGA540A	3/4-14NGT	0.903-14NG0	2175psi	36255psi	O2.N2.AIR
CGA540C	3/4-16UNF	0.903-14NG0	2175psi	36255psi	O2.N2.AIR
CGA540B	PZ27. 8	0.903-14NG0	2175psi	36255psi	O2.N2.AIR
CGA540J	1.125-12UNF	0.903-14NG0	2175psi	36255psi	O2.N2.AIR
CGA580	PZ27. 8	0.965-14NG0	2175psi	36255psi	2
CGA580A	3/4-14NGT	0.965-14NG0	2175psi	36255psi	2
CGA590	PZ27. 8	0. 965-14NG0(Left)	2175psi	36255psi	SF6
CGA590A	3/4-14NGT	0. 965-14NG0 (Left)	2175psi	36255psi	SF6
CGA590B	3/4-14NGT	0. 965-14NG0 (Left)	2175psi	/	SF6
CGA870	3/4-16UNF	Clamp	150bar	202.5bar-225bar	O2.N2.AIR
CGA870-1	PZ19. 2	Clamp	150bar	20.25-22. 50bar	O2.N2.AIR
CGA870-3	3/4-14NGT	Clamp	150bar	20.25-22. 50bar	O2.N2.AIR
CGA870-4	PZ27. 8	Clamp	150bar	20.25-22. 50bar	O2.N2.AIR
CGA910	3/4-16UNF	Clamp	150bar	20.25-22. 50bar	N2O
CGA910-1	PZ19. 2	Clamp	150bar	20. 25-22. 50bar	N2O
CGA910-3	3/4-14NGT	Clamp	150bar	202.5bar-225bar	N2O
CGA910-4	PZ27. 8	Clamp	150bar	202.5bar-225bar	N2O
CGA950	3/4-16UNF	Clamp	150bar	20. 25-22. 50bar	O2 N2
CGA940	3/4-16UNF	Clamp	150bar	202.5bar-225bar	O2 N2
QF-T1	PZ27. 8	G1/2EXternal thread	200bar	202.5bar-225bar	Natural gas
QF-5T	PZ27.8	W21. 8-14(Left)	200bar	20.25-22. 50bar	Natural gas
QF-6T	PZ27. 8	W21. 8-14(Left)	250bar	37.50bar	Natural gas
CTF-12	PZ27. 8	G1/2EXternal thread	200bar	27-300bar	Natural gas
CTF-12A	M25*2	G1/2EXternal thread	200bar	27-300bar	Natural gas
CTF-12B	3/4-14NGT	NPT1/4	250bar	37.50bar	Natural gas
NF-1	PZ27. 8	G5/8EXternal thread	200bar	/	High purity /special gas
NF-2	PZ27. 8	CGA660	200bar	/	High purity /special gas
NF-2A	3/4-14NGT	CGA660	200bar	/	High purity /special gas
NF-3	PZ27. 8	CGA330	200bar	/	High purity /special gas
NF-3A	3/4-14NGT	CGA330	200bar	/	High purity /special gas
NF-4	PZ27. 8	W21.8-1/14LH	200bar	/	High purity /special gas
NF,4A	BS341-1"	W21.8-1/14LH	200bar	/	High purity /special gas
NF-5	PZ19. 2	W21.8-1/14	200bar	/	High purity /special gas
NF-6	PZ27. 8	CGA350	200bar	/	High purity /special gas



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