SYC Cylinders

HIGH PRESSURE STEEL CYLINDERS

“ High pressure cylinders marking „

COMPANY - SYC Cylinders

The company started in 1930, carrying out engineering projects for new machinery.

All the technologies for manufacturing cylinders are created, so in 1955 started the mass production.

Later, in 1976 it becomes the current society SYC Cylinders.

Nowadays, we continue our research and technological development (RTD) to improve our productive process and the final product quality.

PREMIUM QUALITY

"Shaping"

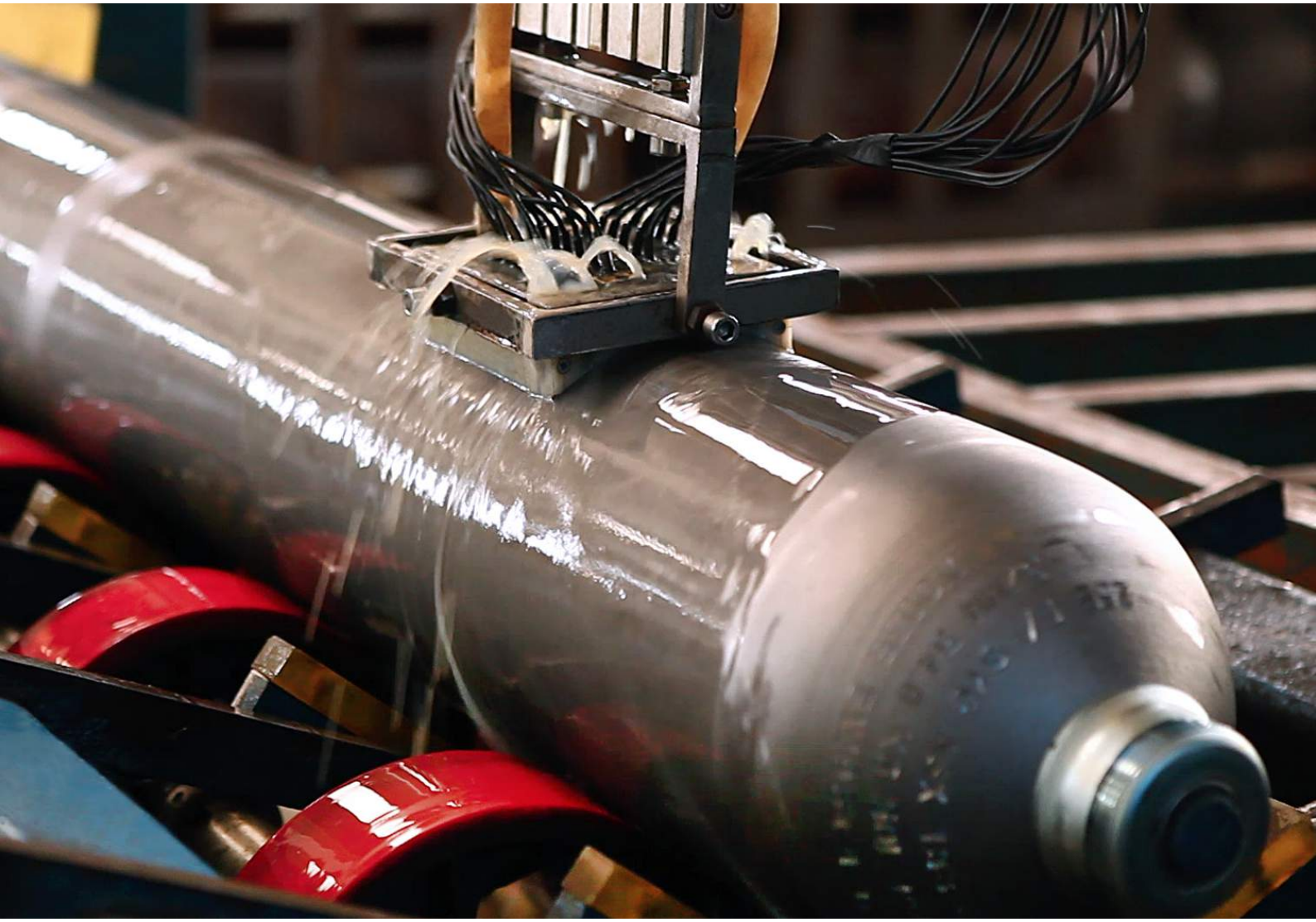
Objectives

We have been sharing and living many experiences, emotions and challenges with our customers for over 50 years with motivation, energy and passion.

Looking now to the future, we continue working as a team by listening to customer's needs. Our services will innovate and provide them with the right flexible and dynamic solutions.

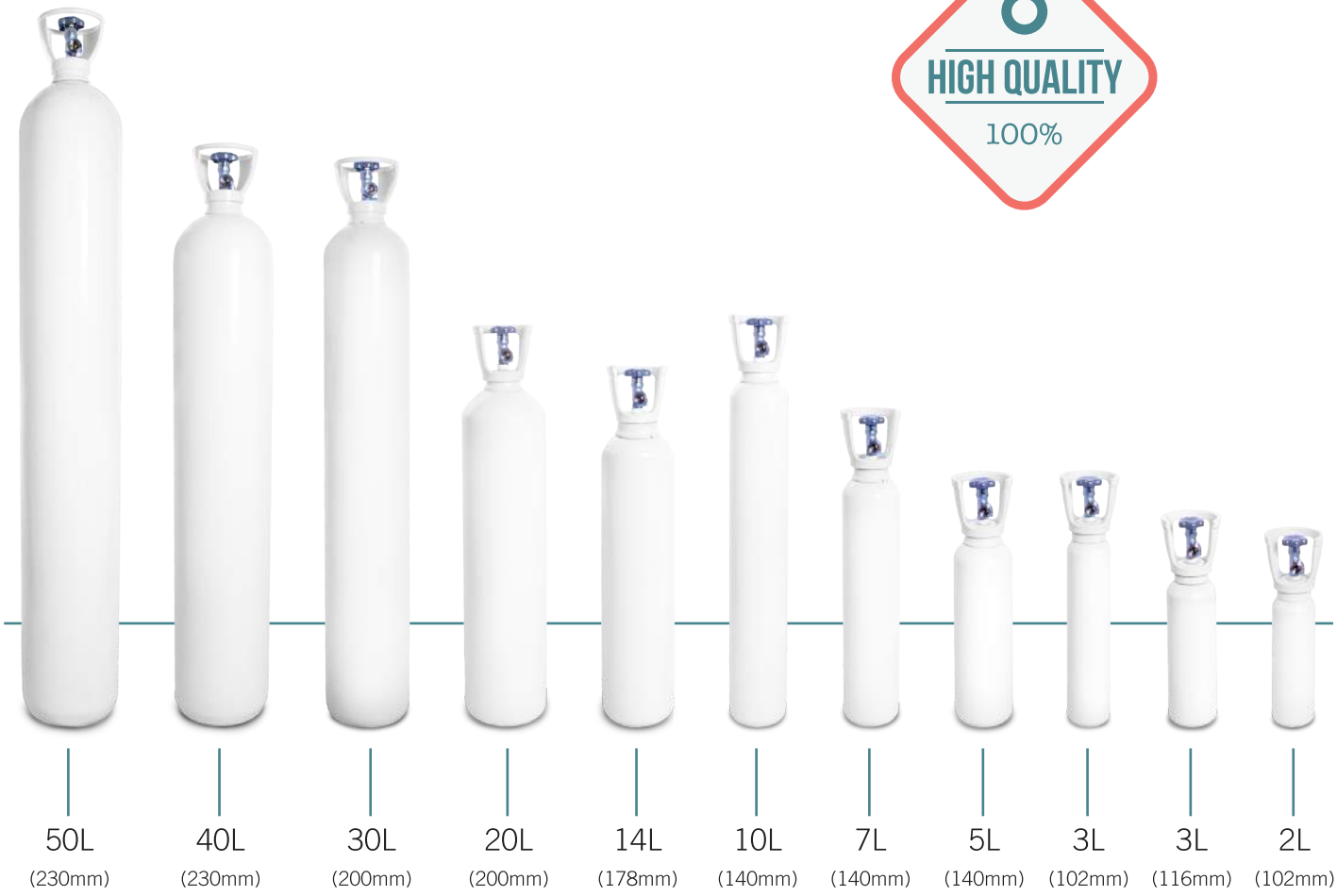
This is inside of us.

"Heat treatment"



“ *Ultrasonic control* „

Medical cylinders



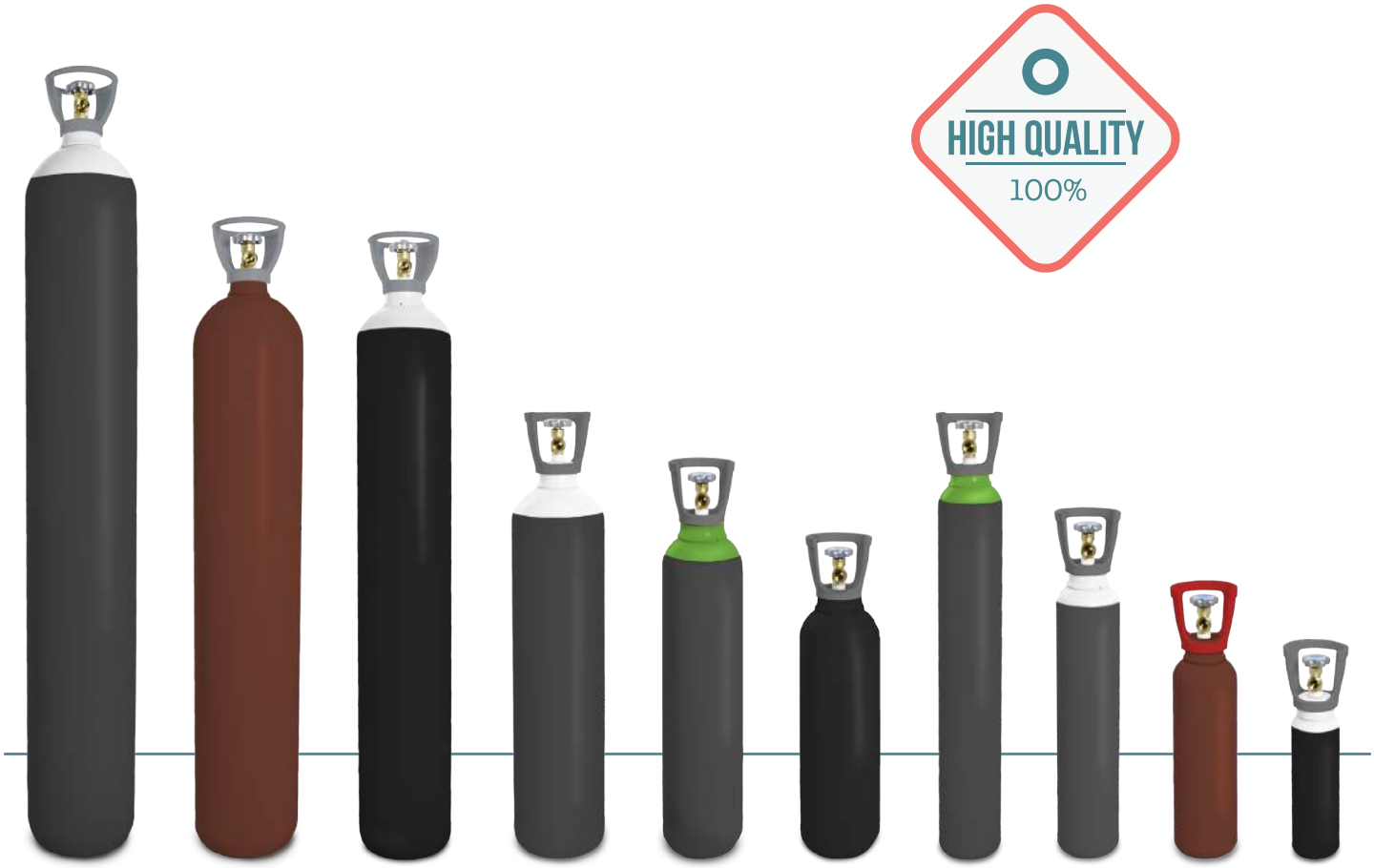
Standard cylinders for O_2, also available to other medical gases: air, medical CO_2...

We produce special volumes under customer request.

WATER CAPACITY (L)	OUTER DIAMETER (mm)	GAS CAPACITY (L)	WORK PRESSURE (bar)	TEST PRESSURE (bar)	GAS	HEIGHT* (mm)	WEIGHT* (kg)	THREAD	NECKRING	BASE SHAPE	MINIMUM THICKNESS (mm)
1,5	102	300	200	300	MEDICAL GASES	280	2,2	17E	no	convex	2,4
2	102	400	200	300		350	2,7	17E	no	convex	2,4
2	102	400	200	300		350	2,7	25E	no	convex	2,4
3	102	600	200	300		490	3,6	25E	no	convex	2,4
2	102	400	200	300		350	3,3	25E	yes	concav	2,43
3	102	600	200	300		485	4,5	25E	yes	concav	2,43
3	116	600	200	300		385	4,2	25E	yes	concav	2,59
5	140	1000	200	300		460	7,3	25E	yes	concav	3,3
7	140	1400	200	300		625	9,3	25E	yes	concav	3,3
10	140	2000	200	300		850	12	25E	yes	concav	3,3
11	178	2200	200	300		605	14	25E	yes	concav	4,1
14	178	2800	200	300		740	16,5	25E	yes	concav	4,1
20	200	4000	200	300		820	23	25E	yes	concav	4,47
30	200	6000	200	300		1195	31,8	25E	yes	concav	4,47
30	230	6000	200	300		920	37	25E	yes	concav	5,2
40	230	8000	200	300		1210	45	25E	yes	concav	5,2
50	230	10000	200	300		1500	53	25E	yes	concav	5,2

*Without accessories

Industrial cylinders



50L	40L	30L	20L	14L	11L	10L	7L	5L	2L
(230mm)	(230mm)	(200mm)	(200mm)	(178mm)	(178mm)	(140mm)	(140mm)	(140mm)	(102mm)
O_2	C_2H_2	O_2	O_2	Ar	N_2	Ar	O_2	C_2H_2	O_2

Standard industrial cylinders, available to other gases.

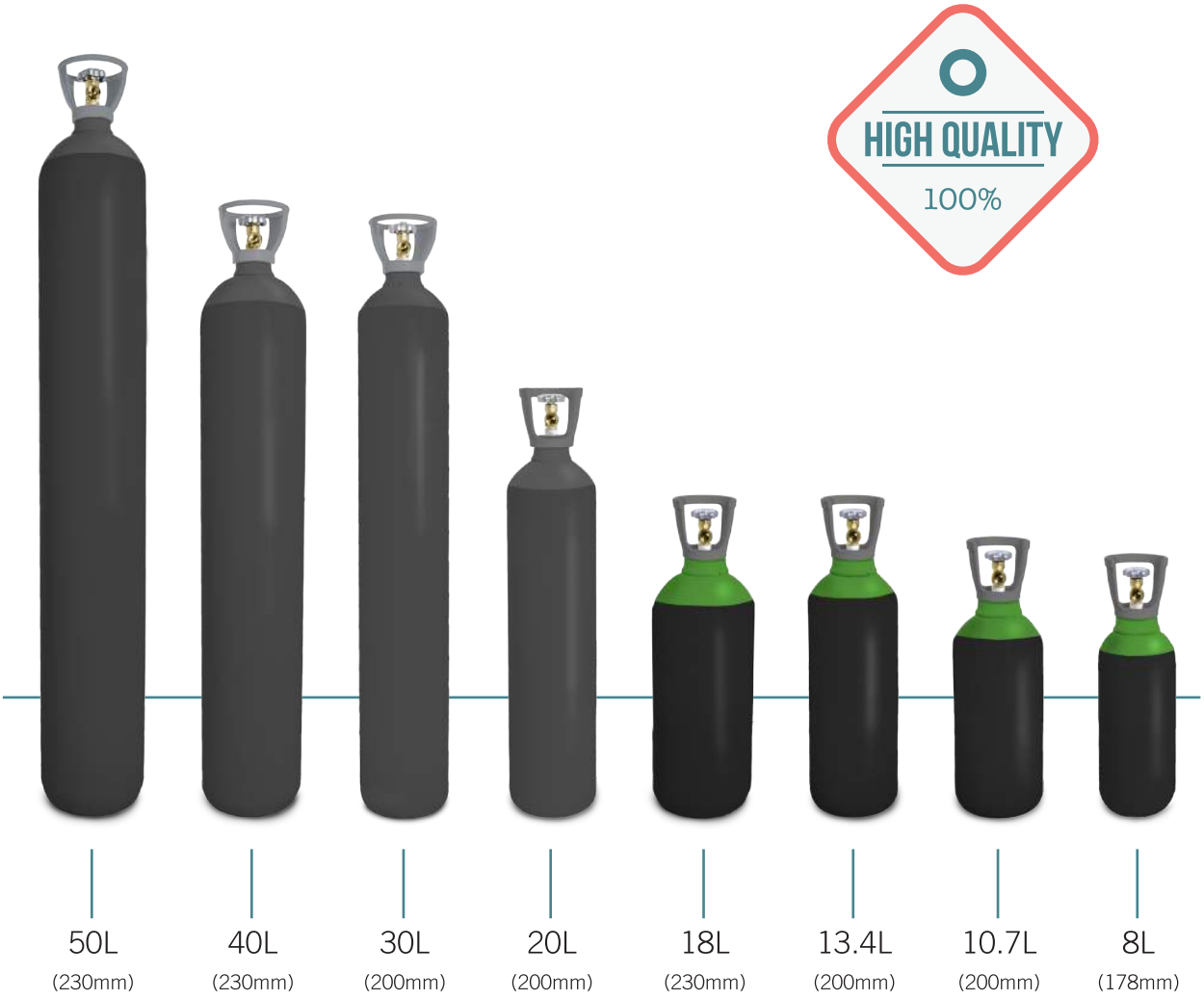
We produce special volumes under customer request.

WATER CAPACITY (L)	OUTER DIAMETER (mm)	GAS CAPACITY (m^3)	WORK PRESSURE (bar)	TEST PRESSURE (bar)	GAS	HEIGHT* (mm)	WEIGHT* (kg)	THREAD	NECKRING	BASE SHAPE	MINIMUM THICKNESS (mm)	NORM
2	102	0,4	200	300	INDUSTRIAL GASES	350	3,3	25E	yes	concav	2,43	EN 1964-1
3	102	0,6	200	300		490	4,5	25E	yes	concav	2,43	EN 1964-1
3	116	0,6	200	300		385	4,2	25E	yes	concav	2,59	EN 1964-1
5	140	1	200	300		460	7,3	25E	yes	concav	3,3	EN 1964-1
7	140	1,4	200	300		625	9,3	25E	yes	concav	3,3	EN 1964-1
10	140	2	200	300		850	12	25E	yes	concav	3,3	EN 1964-1
14	178	2,8	200	300		740	16,5	25E	yes	concav	4,1	EN ISO 9809-1
10	200	2	200	300		462	14,8	25E	yes	concav	4,47	EN 1964-1
14	200	2,8	200	300		600	18,6	25E	yes	concav	4,47	EN 1964-1
20	200	4	200	300		820	23	25E	yes	concav	4,47	EN 1964-1
30	200	6	200	300		1195	31,8	25E	yes	concav	4,47	EN 1964-1
30	230	6	200	300		920	37	25E	yes	concav	5,2	EN 1964-1
40	230	8	200	300		1210	45	25E	yes	concav	5,2	EN 1964-1
50	230	10	200	300		1500	53	25E	yes	concav	5,2	EN 1964-1

WATER CAPACITY (L)	OUTER DIAMETER (mm)	GAS CAPACITY (kg)	WORK PRESSURE (bar)	TEST PRESSURE (bar)	GAS	HEIGHT* (mm)	WEIGHT* (kg)	THREAD	NECKRING	BASE SHAPE	MINIMUM THICKNESS (mm)	NORM
5	140	1	18	60	ACETYLENE	460	7,3	25E	yes	concav	3,3	EN 1964-1
10	140	2	18	60		850	12	25E	yes	concav	3,3	EN 1964-1
14	178	2,5	18	60		740	16,5	25E	yes	concav	4,1	EN ISO 9809-1
20	200	4	19	60		820	23	25E	yes	concav	4,47	EN 1964-1
33	200	6	19	60		1308	34,4	25E	yes	concav	4,47	EN 1964-1
40	230	8	19	60		1210	45	25E	yes	concav	5,2	EN 1964-1
50	230	10	19	60		1500	53	25E	yes	concav	5,2	EN 1964-1

*Without accessories

Food industry cylinders



Standard food industry cylinders, available to other gases.

We produce special volumes under customer request.

WATER CAPACITY (L)	OUTER DIAMETER (mm)	GAS CAPACITY (m^3)	WORK PRESSURE (bar)	TEST PRESSURE (bar)	GAS	HEIGHT* (mm)	WEIGHT* (kg)	THREAD	NECKRING	BASE SHAPE	MINIMUM THICKNESS (mm)	NORM
2	102	0,4	200	300	INERT GAS	350	3,3	25E	yes	concav	2,43	EN 1964-1
3	102	0,6	200	300		485	4,5	25E	yes	concav	2,43	EN 1964-1
3	116	0,6	200	300		385	4,2	25E	yes	concav	2,59	EN 1964-1
5	140	1	200	300		460	7,3	25E	yes	concav	3,3	EN 1964-1
7	140	1,4	200	300		625	9,3	25E	yes	concav	3,3	EN 1964-1
10	140	2	200	300		850	12	25E	yes	concav	3,3	EN 1964-1
14	178	2,8	200	300		740	16,5	25E	yes	concav	4,1	EN ISO 9809-1
10	200	2	200	300		462	14,8	25E	yes	concav	4,47	EN 1964-1
14	200	2,8	200	300		600	18,6	25E	yes	concav	4,47	EN 1964-1
20	200	4	200	300		820	23	25E	yes	concav	4,47	EN 1964-1
30	200	6	200	300		1195	31,8	25E	yes	concav	4,47	EN 1964-1
30	230	6	200	300		920	37	25E	yes	concav	5,2	EN 1964-1
40	230	8	200	300		1210	45	25E	yes	concav	5,2	EN 1964-1
50	230	10	200	300		1500	53	25E	yes	concav	5,2	EN 1964-1

WATER CAPACITY (L)	OUTER DIAMETER (mm.)	GAS CAPACITY (Kg)	WORK PRESSURE (bar)	TEST PRESSURE (bar)	GAS	HEIGHT* (mm)	WEIGHT* (kg)	THREAD	NECKRING	BASE SHAPE	MINIMUM THICKNESS (mm.)	NORM
2	102	1,5		300	CARBON DIOXIDE (CO_2)	350	3,3	25E	yes	concav	2,43	EN 1964-1
3	102	2,3		300		485	4,5	25E	yes	concav	2,43	EN 1964-1
3	116	2,3		300		385	4,2	25E	yes	concav	2,59	EN 1964-1
5	140	3,8		300		460	7,3	25E	yes	concav	3,3	EN 1964-1
7	140	5,3		300		625	9,3	25E	yes	concav	3,3	EN 1964-1
8	178	6,1		300		465	11,5	25E	yes	concav	4,1	EN ISO 9809-1
10,7	200	8,1		300		490	15,2	25E	yes	concav	4,47	EN 1964-1
13,4	200	10,2		300		580	17,2	25E	yes	concav	4,47	EN 1964-1
27	200	20,5		300		1100	31,8	25E	yes	concav	4,47	EN 1964-1
33	200	25,1		300		1308	34,4	25E	yes	concav	4,47	EN 1964-1
18	230	13,7		250		580	24	25E	yes	concav	5,2	EN 1964-1
40	230	30,4		300		1210	45	25E	yes	concav	5,2	EN 1964-1
50	230	38		300		1500	53	25E	yes	concav	5,2	EN 1964-1

*Without accessories

Valves

Gas applications to most industries

Chromium Medical

High pressure valves for medical cylinders.

- Outlet connections to standard: UNI / NF / BS / DIN
- Working pressure 200 bars (on request 300 bars).
- RPV or standard option.

O_2 Regulatory Compact

Integrated combination valve and regulator for medical and industrial gases.

Safety features for patients and healthcare personnel.

- Easy to use and lightweight, all in one package system.
- Eliminates the need to make high pressure connections.
- Minimizes the risk of contamination.
- RPV.

Medicinal Pin-Index

High pressure Pin-Index valve for medical cylinders.

All the valves are designed with differents strirrups according to gases.

- O-Ring technology provides superior leak integrity.
- Easy operation under high pressure.
- Working pressure 200 bars.

Industrial

High pressure valves for industrial cylinders.

- Outlet connections to standard: UNI / NF / BS / DIN
- Working pressure 200 bars (on request 300 bars).
- RPV or standard option.

C_2H_2 industrial

Valve for acetylene manufactured according to directive 2010/35EU. Non rotating shutter.

- Outlet connections under standard: UNI / NF / BS / DIN

CO_2

High pressure valves for industrial cylinders.
This valve is equipped optionally with a residual system to positive pressure, with the specific function to prevent pollution of the gas in the cylinder. Leaving a residual pressure of gas approximately 3 bars.

- Working pressure 200 bars (on request 300 bars).

Protection guards

ABS protection cap

ABS protection cap for valve cylinders. Caps have been certified according to EN ISO 11117:2008.

- For cylinder up to 40 kg.
- Differents colours.
- Customization under customer request.

Iron protection cap

Iron protection guard for industrial, medical and food industry gases.

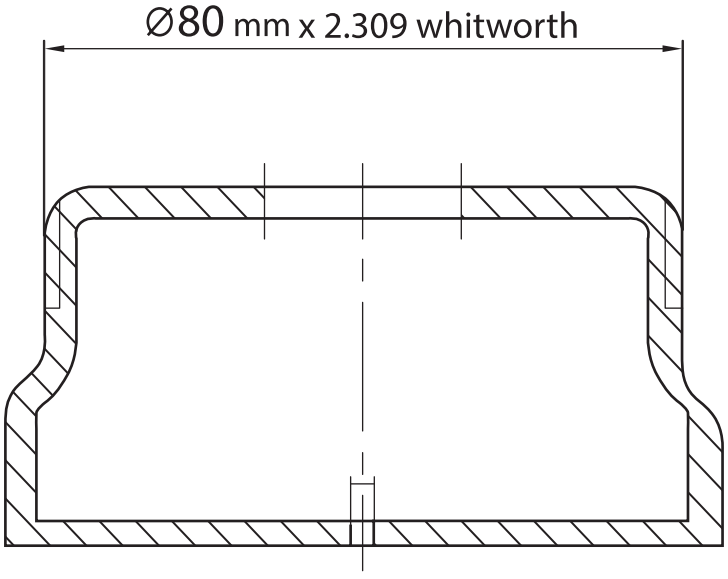
- Cap bolt for easiest installation.
- They are supplied: zinc plated or painted.
- Designed for highest volumes.

Closed Cap

Closed iron cap for industrial, medical and food industry gases.

- High level protection.
- Designed for highest volumes.
- Covering and safe from any impact or fallen during trasportation.
- Easily installation.

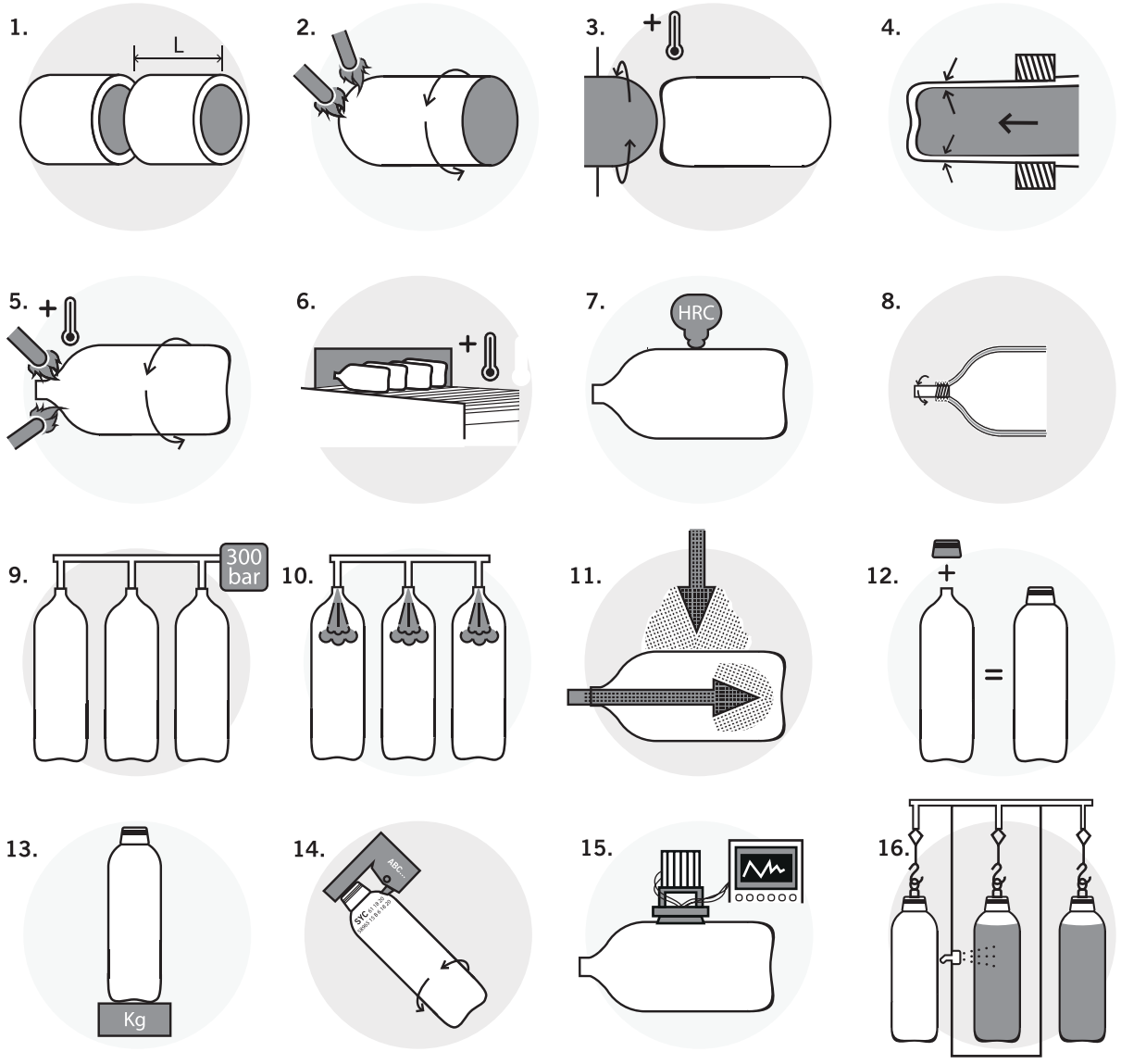
Neck ring



Quality Management

SYC Cylinders

SYC demands the highest quality in all stages of production process, from the purchase of raw materials to suppliers who must demonstrate their deep commitment with quality process.



1. Cutting
2/3 Bottom forming
4. Cold drawn
5. Shoulder forming
6. Heat treatment
7. Hardness control
8. Thread forming
9. Hydraulic testing
10. Internal cleaning
11. Int/ext. sand blasting
12. Neck ring assembly
13. Weight measurement
14. Marking
15. Ultrasonic test
16. Painting

“This is inside of us”

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