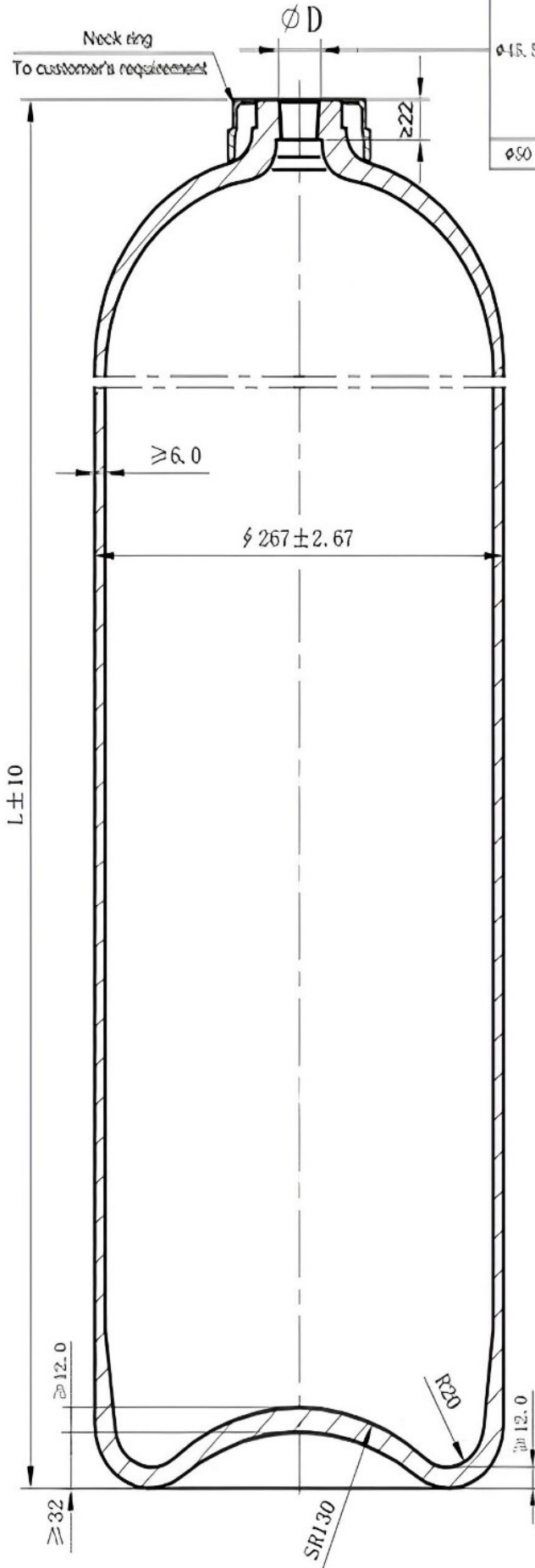




CO₂ SYSTEM

ØD.	Thread Spec.	Standard
Ø45.5	PZ27.8	GB8335
	W28.8*1/14	DIN477
	2SE	ISO11933-1
	1*1GB	BS211-1982
	3/4-14NGT	FED-STD-028/9
Ø50	W28-14	JISB8241
	1" -11.5NGT	ANSI B57.1



CO₂ SYSTEM

Main Technical Requirements

1. Cylinders manufacture & design basis: EN ISO9809-1:2010 & TPED.
2. The cylinder material selection 37Mn material, Press GB18248-2008

Material of cylinders chemical composition scope: (%)

Chemical composition	C	Mn	Si	S	P	S+P	Cr	Ni
Standard values	0.30-0.40	1.35-1.75	0.10-0.30	max0.01	max0.02	max0.025	max0.20	max0.20

3. Cylinders mechanical properties value, after heat treatment:

Mechanical parameters	Re (N/mm ²)	Rg (N/mm ²)	A (%)	Hardness values (HB)	akv (-50 °C) (J/cm ²)	
Standard values	≥645	≥760	≥14	130-200	Min ≥28	Avg ≥35

4. Surface powder coating customer or standard request.
5. Design: EN ISO9809-1:2010. The test pressure 250bar, Max. working pressure 150bar.
6. Heat treatment: quenches and tempered (q: 850 ± 15 °C, t: 575 ± 15 °C).
7. In hydraulic burst test, the measured burst pressure shall be:
Pb ≥ 400bar

Water Cubege (L)	40	68	80
Height (H, mm)	935	1470	1730
Mess of Cylinder (W, kg)	47	71	82

					37Mn			Shanghai Eternal Faith Industry Co., Ltd	
Mark	Pcs	Rev. No.	Signature	Date					
Design		Jim	Standard	Alice	Pattern marker	Weight	Scale	ISO267-37Mn-00	
Proofread			Approve	Michael			1:5		
Audit									
Technics			Date	17.07.10	Total	Page	The	Page	SEF16/25-00

CO₂ SYSTEM



CEODEUX FIRETEC

**Solenoid valves for
fixed installations,
CO₂**



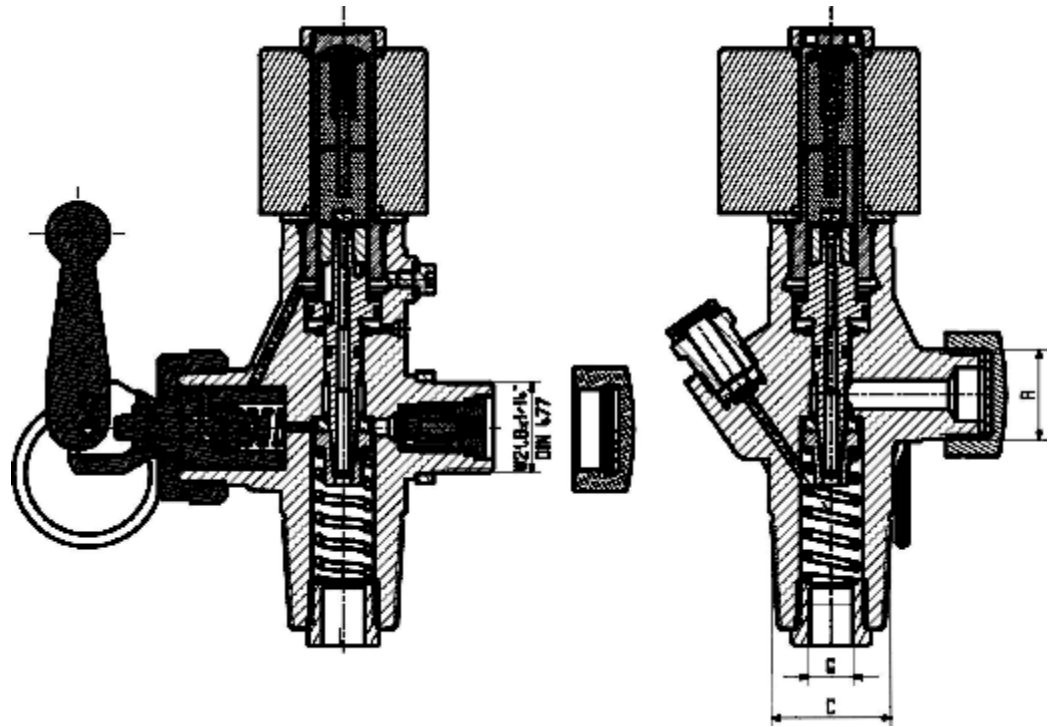
Series

B 0 4 3 9

STANDARD SPECIFICATION

Working pressure p max.	250 bar
Temperature range	- 20°C + 60°C
Seat orifice size	7 mm
Discharge rate CO ₂	45 kg / min
Discharge rate Operating	Kv = 0,69, Cv = 80 total discharge
Material	
Valve body	brass
Inlet connection	C = 25E EN 629-1
Outlet connection	A = W 21,8 x 1/14" DIN 477
Dip tube connection	G = M 10 x 0,75
Burst disc	p = has to be specified
Electrical specifications:	
Operating voltage	24 V DC
Power consumption	10 Watts

CO₂ SYSTEM



OPTIONS

- Operating: intermittent
- Special inlet
- Special outlet
- Operating voltage 12 V DC or 230 V DC
- Explosion / flame proof solenoid

ORDERING

When ordering please specify:

- Series number
- Burst disc pressure "p"
- Options

CO₂ SYSTEM

Loss Prevention Certification Board

LPCB

This is to certify

Ceodeux - Firetec

24 Route de Diekirch - B.P.19, L-7505 Lintgen, Luxembourg

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

**Ceodeux – Firetec CO2 and Inert (200 and 300 bar)
Fixed Firefighting Components**
(refer to attached appendix for details)

which have complied with the requirements of the following:

EN 12094-4:2004 – Fixed firefighting systems – Components for gas extinguishing systems – Part 4: Requirements and test methods for container valve assemblies and their actuators

Certificate No. 724a

Issue No. 02

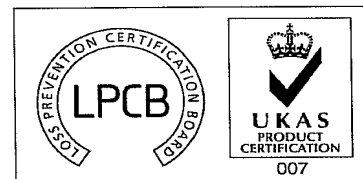
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CO₂ SYSTEM

Loss Prevention Certification Board

LPCB

APPENDIX TO CERTIFICATE NO. 724a

Ceodeux - Firetec

Ceodeux CO₂ Container valves

1. This range of equipment is suitable for storage temperatures from -20°C to +60°C and is approved for use with CO₂
2. This range of equipment is approved for use with Ceodeux Design Manual Reference: B 04800 – CO₂ Revision: C
3. System pressure is specified as 60 bar at +20°C

Product name	Description	LPCB Ref. No.
B0480 0004	CO ₂ Container Valve	724a/01
B0480 0005	CO ₂ Container Valve	724a/01
B0480 0006	CO ₂ Container Valve	724a/01
B0480 0007	CO ₂ Container Valve	724a/01
B0480 0106	CO ₂ Container Valve	724a/01
B0480 0107	CO ₂ Container Valve	724a/01
B0480 0108	CO ₂ Container Valve	724a/01
B0480 0109	CO ₂ Container Valve	724a/01
B0480 0110	CO ₂ Container Valve	724a/01
B0480 0111	CO ₂ Container Valve	724a/01
B0480 0112	CO ₂ Container Valve	724a/01
B0480 0113	CO ₂ Container Valve	724a/01

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CO₂ SYSTEM

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APPENDIX TO CERTIFICATE NO. 724a

Ceodeux - Firetec

Ceodeux 200 bar Inert Container valves

4. This range of equipment is suitable for storage temperatures from -20°C to +60°C and is approved for use with 200 bar inert gas
5. This range of equipment is approved for use with Ceodeux Design Manual Reference B 04801 – 200 bar Revision: F
6. System pressure is specified as 200 bar at +15°C

Product Name	Description	LPCB Ref. No.
B0480 1002	200 bar Inert Container Valve	724a/02
B0480 1003	200 bar Inert Container Valve	724a/02
B0480 1206	200 bar Inert Container Valve	724a/02
B0480 1207	200 bar Inert Container Valve	724a/02
B0480 1208	200 bar Inert Container Valve	724a/02
B0480 1209	200 bar Inert Container Valve	724a/02
B0480 1210	200 bar Inert Container Valve	724a/02
B0480 1211	200 bar Inert Container Valve	724a/02
B0480 1212	200 bar Inert Container Valve	724a/02
B0480 1213	200 bar Inert Container Valve	724a/02
B0480 1219	200 bar Inert Container Valve	724a/02

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CO₂ SYSTEM

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APPENDIX TO CERTIFICATE NO. 724a

Ceodeux - Firetec

Ceodeux 300 bar Inert Container valves

7. This range of equipment is suitable for storage temperatures from -20°C to +60°C and is approved for use with 300 bar inert gas
8. This range of equipment is approved for use with Ceodeux Design Manual Reference: B 04802 – 300bar Revision: K
9. System pressure is specified as 300 bar at +15°C

Product Name	Description	LPCB Ref. No.
B0480 2007	300 bar Inert Container Valve	724a/03
B0480 2008	300 bar Inert Container Valve	724a/03
B0480 2009	300 bar Inert Container Valve	724a/03
B0480 2010	300 bar Inert Container Valve	724a/03
B0480 2012	300 bar Inert Container Valve	724a/03
B0480 2014	300 bar Inert Container Valve	724a/03
B0480 2016	300 bar Inert Container Valve	724a/03
B0480 2021	300 bar Inert Container Valve	724a/03

Ceodeux Inert Container Valves Discharge Regulator

10. This range of equipment is suitable for storage temperatures from -20°C to +60°C and is approved for use with 200 and 300 bar inert gas container valves listed above.
11. This range of equipment is approved for use with Ceodeux Design Manual References: 04801 – 200 bar Revision: F and B 04802 – 300bar Revision: K
12. System pressure is specified as 200 or 300 bar at +15°C

Product Name	Description	LPCB Ref. No.
B08400002	Inertech Discharge Constant Pressure Regulator	724a/05
B08400003	Inertech Discharge Constant Pressure Regulator	724a/05
B08400004	Inertech Discharge Constant Pressure Regulator	724a/05
B08400005	Inertech Discharge Constant Pressure Regulator	724a/05
B08400006	Inertech Discharge Constant Pressure Regulator	724a/05
B08400007	Inertech Discharge Constant Pressure Regulator	724a/05
B08400009	Inertech Discharge Constant Pressure Regulator	724a/05

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APPENDIX TO CERTIFICATE NO. 724a

Ceodeux - Firetec

Ceodeux Actuators

13. This range of equipment is suitable for storage temperatures from -20°C to +60°C and is approved for use with Ceodeux CO₂, 200 bar inert gas and 300 bar inert gas Container Valves.
14. This range of equipment is approved for use with Ceodeux Design Manual References: B04420065 Revision: B, B04420076 Revision: C and B04420575 Revision: C

Product Name	Description	LPCB Ref. No.
B04420092	Pneumatic / Manual Actuator	724a/04
B04420093	Pneumatic Actuator	724a/04
B04420096	Pneumatic Actuator	724a/04
B04420097	Pneumatic Actuator	724a/04
B04420103	Electrical Actuator	724a/04
B04420104	Electrical Actuator	724a/04
B04420110	Electrical Actuator	724a/04
B04420111	Electrical Actuator	724a/04
B04420577	Electrical Actuator	724a/04
B04420578	Electrical Actuator	724a/04
B04420580	Electrical Actuator	724a/04
B04420594	Electrical Actuator	724a/04
B04425103	Electrical Actuator	724a/04
B04425104	Electrical Actuator	724a/04
B04425110	Electrical Actuator	724a/04
B04425111	Electrical Actuator	724a/04
B04420065	Pneumatic / Manual Actuator	724a/04
B04420066	Pneumatic Actuator	724a/04
B04420076	Pneumatic Actuator	724a/04
B04420575	Electrical Actuator	724a/04
B04420081	Pneumatic Actuator	724a/04
B04420082	Pneumatic Actuator	724a/04
B04420083	Pneumatic / Manual Actuator	724a/04

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+1(347)6545356
413 ANNADALE RD
STATEN ISLAND NY 10312
USA