

CO₂

- **Contrasting technology and efficacy**
- **Low refilling cost**
- **Local application or total flooding application**
- **Applicable to deep - seated fires**
- **No residue to clean up after the discharge**
- **Zero Ozone Depletion Potential**
- **Electrically non-conductive**
- **Excellent grade of risk penetration**

At atmospheric pressures carbon dioxide (CO₂) is a colourless, odourless and non – conductive gas capable of penetrating quickly and efficiently the area to be protected. Its density is approximately 50% greater than the density of air. CO₂ is stored in high-pressure cylinders as liquefied gas.

CO₂ has been used effectively for many years, not only in fire protection but also in other commercial applications. Although the use of CO₂ as extinguishing agent declined with the introduction of halons, it is still widely used for fire protection, specially since Montreal Protocol was introduced (where bases were established to ban the use of Halon extinguisher).

CO₂ extinguishes fires by physical means according to two main mechanisms. The first one is by decreasing the oxygen level inside the enclosure from 21% to a level below 15%. Most fires are unable to maintain combustion at such low levels. The second mechanism is by means of cooling and heat absorption.

When dealing with the protection of occupied areas, consideration shall be given to the fact that if CO₂ is inhaled, even in low concentrations, it may lead to asphyxia. Under required safety precautions, CO₂ has been effectively applied for over 50 years to protect areas such as transformer rooms, archives, electrical hazards, record stores and computer rooms. In some countries regulations ban automatic control of CO₂ systems for the protection of occupied areas.

Carbon Dioxide Proven Technology



VdS
Schadenverhütung
Vertrauen durch Sicherheit



Agencia Protección Contra
Incendios Ministerio del
Interior



VNIPO
Russian Certification Body





In other countries it is allowed, as long as the system and protected area have the relevant safety devices fitted.

Thanks to their experience in the field of fire protection gained through **CO₂** systems, **LPG** fire extinguishing systems are now installed in more than 40 countries in Europe, America, Asia and Africa.

LPG range of **CO₂** systems include two types of valves fully developed by **LPG**, approved by the most renowned independent organizations.

LPG 128 valve is fitted on pilot cylinder and allows electrical actuation using a solenoid or pyrotechnical charge.

LPG 110 valve is fitted on auxiliary cylinders and activated using the pneumatic pressure provided by pilot cylinder. They offer greater flexibility for all types of actuation and release systems currently in use in the market, even allowing combinations of several of them. Incorporated in their design protection elements against accidental actuation due to micro leakages. They also allow checking and maintenance of all critical elements contained in a fixed extinguishing system, at the time of commissioning and later system preventive maintenance, thus preventing the risk of accidental discharge.

To check for weight loss of the extinguishing agent in cylinders, **LPG** has available a charge cellular weighing system, which allows continuous control of condition of charge of cylinders containing **CO₂**.

LPG CO₂ system and its components are certified by VdS and VNIIPO.

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Physical Properties

Chemical name:	Carbon Dioxide
Chemical formula:	CO ₂
Molecular weight:	44.01
Triple point Temperature:	-55.60 C
Triple point Pressure:	517,8 kPa
Liquid density at 20° C:	777 kg./m ³
Critical temperature:	31.0° C
Critical pressure:	73.82 bar
Pressure at 21° C:	58.8 bar
Vapour pressure at 20° C:	57.2 bar
Maximum filling density:	0.75 kg./l.
Air relative density:	1.5
Deep seated electrical fire concentration Vol < 57m ³ :	1.6 kg./m ³
Deep seated electrical fire concentration Vol < 57m ³ :	1.33 kg./m ³
Archive extinguishing concentration :	61% (2.0 kg./m ³)
Ozone depletion potential:	0
Greenhouse effect potential:	1
Surfacefire design concentration:	34%

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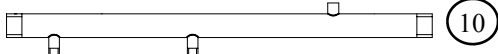
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MANIFOLD



NOTE MANIFOLDS:

- NPT 2 THREADED OUTLETS MANIFOLD
- NPT THREADED BLIND CAP SUPPLIED FOR BLINDING ONE OUTLET
- DISCHARGE PRESSURE SWITCH IS OPTIONAL

Nº CYL. 80 L.	Ø Manifold	Nº "U" bracket	CODE
2	3/4"	2	38163021
3	3/4"	2	38163031
4	3/4"	2	38163041
5	3/4"	2	38163051
6	1 1/4"	2	38163063
7	1 1/4"	2	68163073
8	1 1/4"	3	68163083
9	1 1/4"	3	68163093
10	1 1/4"	3	68163103



Ø	Steel Nozzles of 360°	Steel Nozzles of 180°	Nozzle Embellishment plate
	Nº CODE	Nº CODE	Nº CODE
3/8"	30400000	30400007	30410320
1/2"	30400001	30400008	30410420
3/4"	30400002	30400009	30410520
1"	30400003	30400010	30410620
1 1/4"	30400004	30400011	30410720
1 1/2"	30400005	30400012	30410820
2"	30400006	30400013	30410920



	Nº CODE
1 1/4" Drilled Diaphragm	30440072
3/8" Drilled Diaphragm	30440032
1/2" Drilled Diaphragm	30440042
3/4" Drilled Diaphragm	30440052
1" Drilled Diaphragm	30440062
1 1/4" Drilled Diaphragm	30440072



Double Contact Pressure
Switch PMN 300 T170 -
1/4"

Nº CODE
303152AR

1/4" Elbow for Pressure
Switch

Nº CODE
35106000

Double Contact Pressure
Switch PMN150 T80 -M10

Nº CODE
30308010

Pressure Switch With
Locking Device on Manifold

Nº CODE
30330010



Set of Labels "Caution
Protected Area"

Nº CODE
31025010



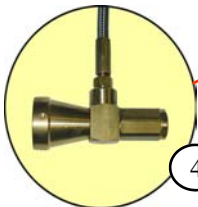
Ø 3/4" Drilled Pressure Reducer	61350005
Ø 1" Drilled Pressure Reducer	61350006
Ø 1 1/4" Drilled Pressure Reducer	61350007
Ø 1 1/2" Drilled Pressure Reducer	61350008
Ø 2" Drilled Pressure Reducer	61350009

	N° CODE
3/4" Manifold U-Bracket	30600050
1" Manifold U-Bracket	30600060
1 1/4" Manifold U-Bracket	30600070
1 1/2" Manifold U-Bracket	30600080
2" Manifold U-Bracket	30600090



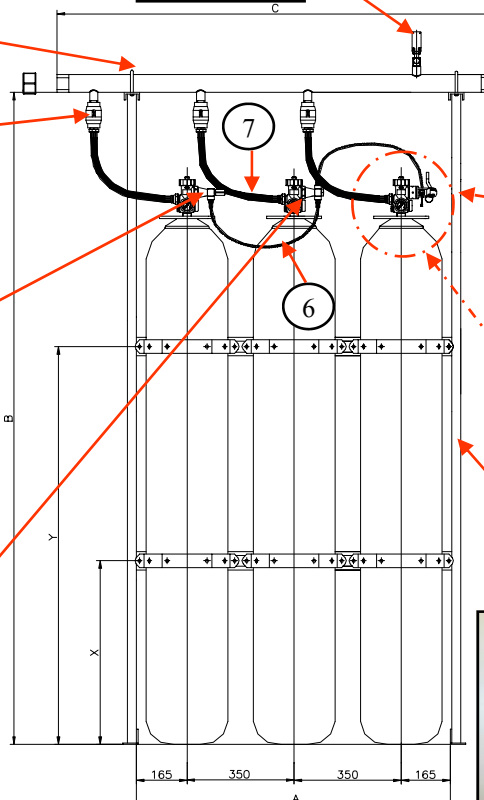
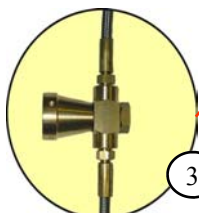
Pneumatic Cone 1 Way H.P.
+ Decompression Screw

30110B16

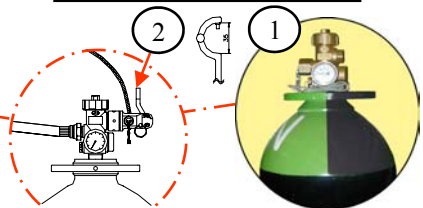


Pneumatic Cone 2 Way High
Pressure

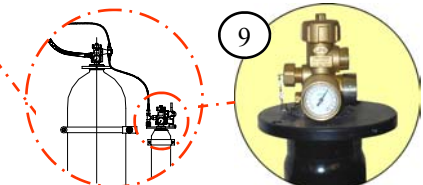
30112APB



UNDER 8 CYLINDERS



OVER 8 CYLINDERS



	CODE
Gooseneck w rench Ø 35-60 mm (to tighten the manual lever and joint nut 3/4" to 1")	35017401
Gooseneck w rench Ø 60-90 mm (to tighten the joint nut 1 1/4" to 2")	35017402
Gooseneck w rench Ø 90-155 mm (to tighten the joint nut 2" to 2 1/2")	35017403
Gooseneck w rench Ø 155-230 mm (to tighten the joint nut 2 1/2" to 4")	35017404



BRACKET

- IN ADDING OR REDUCING A CYLINDER, ADD OR SUBTRACT 350 m / m OF LENGTH

* LPG DECLINES ALL RESPONSABILITIES FOR ACCURACY OF "B" MARK BECAUSE IT DEPENDS ON VARIATIONS OF CYLINDERS HEIGHT.



Cut-Off Valve Ø 1/4"

CODE

62017401

N° CODE

Automatic Overpressure

Damper 30 x 30 cm

12090001

Automatic Overpressure

Damper 50 x 50 cm

12090002



Stop Push Extinction Call Point

CODE

60106130

Trigger Push Extinction Call point

60106140

Alarm Push Call Point

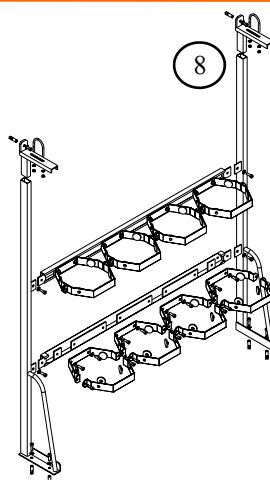
60106120

Illuminated Sign: "Extinction Released"

60200240

Electronic Siren SK-06, 95 DB, 17 MA

60460631



N° CYL SIMPLE ROW	CODE
2	336028SN
3	336038SN
4	336048SN
5	336058SN
6	336068SN
7	336078SN
8	336088SN
9	336098SN
10	336108SN

MATERIAL LIST

	N°	N° CODE	2	3	4	5	6	7	8	9	10
Modular Cylinder 80 LT 128-60 IG-55 200 bar	1	73119000	2	3	4	5	6	7	8	9	10
Pneumatic Manual Lever + Protactor	2	30150020	1	1	1	1	1	1	1	-	-
Pneumatic Cone 2 Way High Pressure	3	30112APB	1	1	2	3	4	5	6	8	9
Pneumatic Cone 1 Way H.P. + Decompression Screw	4	30110B16	1	1	1	1	1	1	1	1	1
Retention valve Ø 3/4"	5	20006050	2	3	4	5	6	7	8	9	10
Hose 4SH 3/4" x 420 mm HG 3/4-MF 3/4 NPT	6	30522010	2	3	4	5	6	7	8	9	10
TF Hose 1/4" MG/MG x 580 / CONE	7	30506014	1	2	3	4	5	6	7	8	9
Bracket 1 row without W.D. 80 LT INERT	8	without / code	1	1	1	1	1	1	1	1	1
Pilot Cylinder 2 LT 128-90 N2	9	701010N2	-	-	-	-	-	-	-	1	1
			53119002	53119003	53119004	53119005	53119006	53119007	53119008	53119009	53119010
Ø Manifold			3/4"	3/4"	3/4"	3/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Manifold	10		X	X	X	X	X	X	X	X	X
Manifold U-Bracket (According to Ø)	11		2	2	2	2	2	2	3	3	3
Drilled Restrictor (According to Ø)	12		X	X	X	X	X	X	X	X	X
Pressure Switch With Locking Device on Manifold	13	30330010	X	X	X	X	X	X	X	X	X
Set of Labels "Caution Protected Area"	14	31025010	X	X	X	X	X	X	X	X	X
M3 of IG-55 (Argon + N2)		400IG550									

TECHNICAL FEATURES

N° CYL. 80 LT.	N° CODE	A	B	C	X	Y	DEPTH	MAX CHARGE (M ³)
2	53119002	760		1075				32,2
3	53119003	1110		1425				48,3
4	53119004	1460		1775				64,4
5	53119005	1810		2125				80,5
6	53119006	2160	2130	2475	600	1300	316	96,6
7	53119007	2510		2825				112,7
8	53119008	3210		3175				128,8
9	53119009	3560		3525				144,9
10	53119010	3910		3875				161

CERTIFICATION



G300018
G300020
G302018
G302017



LPCB of UK
N° 446a/01
446a/02



CNPP of
France
(in process)



VNIPO of
NPB-54-96
(hardware)



APCI of Cuba
N° SS
4004039-1102



05/FAL/0040



Set of Labels "Caution Protected Area"

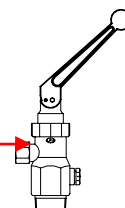
Nº CODE

31025010

Nº CODE

Manual Head Lever for LPG-110

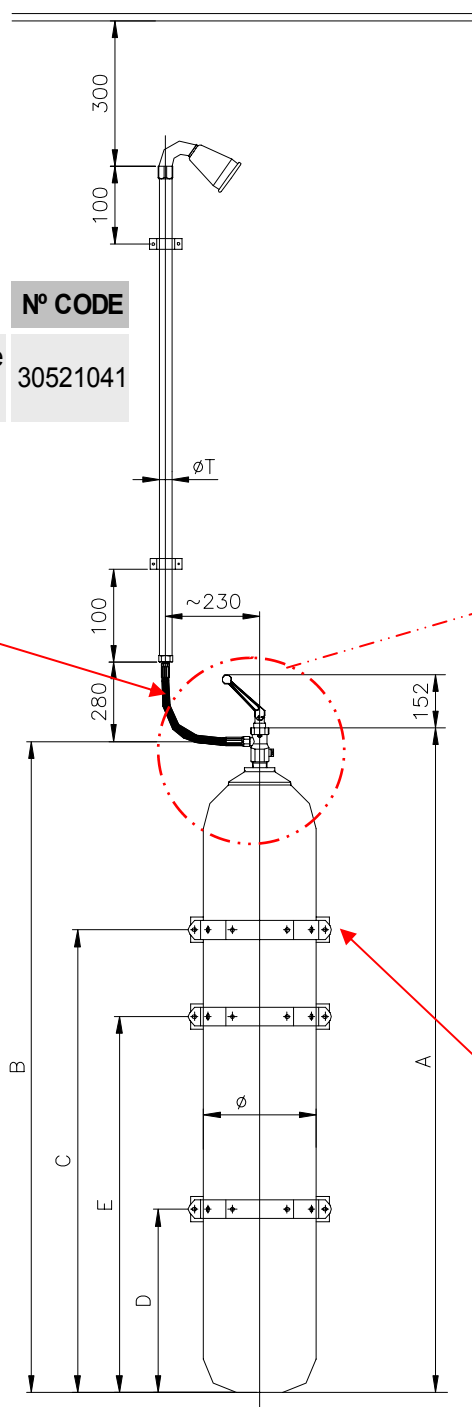
30150300



CO₂ R2 Discharge Hose
21,7 x 1/2" MF/HG* 350

Nº CODE

30521041



VALUE C AND D 2 BRACKETS
OPTIONS

VALUE E 1 BRACKET OPTION

Nº CODE

Bracket for 67, 75 or 80 Lt Mod Cylinder 30626710

Bracket of 26 or 40 Lt Modular Cylinder 30625010

	Pos	APPLICATION	N° CODE
Discharge Nozzle CO2 3/8" F	1	Application requirements	30460130
Discharge Nozzle CO2 1/2" F.		Application requirements	30460031
Discharge Nozzle CO2 3/4" F		Application requirements	30460013
CO2 Nozzle of 3/8" for Drilling (according to S/NFPA)		Specifics hazards	30460038
CO2 Nozzle of 1/2" for Drilling (according to S/NFPA)		Specifics hazards	30460012
CO2 Nozzle of 3/4" for Drilling (according to S/NFPA)	2	Specifics hazards	30460034
Nozzle CO2 Cone Mini 1/4"		Electric cabinets	304CMINI
CO2 Nozzle 90° 1/2"	3	Tanks	304604CH
CO2 Nozzle 90° 3/4"		Tanks	304605CH
CO2 Nozzle Straight 1/2"	4	Specifics hazards	304604RH
CO2 Nozzle Straight 3/4"		Specifics hazards	304605RH
Ambient, 1/2" False Ceiling installation		Installation on false Ceiling	30460FTE



MATERIAL LIST

	N° CODE	67	40,2	26,8	13,4	5
Modular Cylinder 67 LT CO2, Valve 110-00 VDS	76702600	X				
Modular Cylinder 40,2 LT CO2, Valve 110-00 VDS	74002600		X			
Modular Cylinder 26,8 LT CO2, Valve 110-00 VDS	72602600			X		
Modular Cylinder 13,4 LT CO2, Valve 110-00 VDS	71302600				X	
Modular Cylinder 5 LT CO2, Valve 110-00 VDS	70502600					X
Manual Head Lever for LPG-110	30150300	X	X	X	X	X
CO2 R2 Discharge Hose 21,7 x 1/2" MF/HG* 350	30521041	X	X	X	X	X
Bracket for 67, 75 or 80 Lt Mod Cylinder	30626710	X				
Bracket of 26 or 40 Lt Modular Cylinder	30625010		X	X		
Bracket for 5, 7 or 13 Lt Mod Cylinders	30621310				X	X
Set of Labels "Caution Protected Area"	31025010	X	X	X	X	X
Kilos of CO2	40010000					

TECHNICAL FEATURES

VALVES	CAPACITY	CODE	MAX. CHARGE	Ø	MEASUREMENT						WEIGHT (Kg)
					A*	B*	C	D	E	T	
LPG 110	67 l.	76702600	50	267	1620	1510	1100	550	840		79
	40,2 l.	74002600	30	229	1358	1248	1010	550	1100		52
	26,8 l.	72602600	20	229	1090	980			800	W 21,7 DIN 477	47
	13,4 l.	71302600	10	140	1200	1090			825		24
	5.0 l.	70502600	3,5	140	580	470			300		12

CERTIFICATION



G300012
G300020



APCI of Cuba
N° SS
4004038-1102



VNIPO of
NPB-54-96
(hardware)



05/FAL/0040
05/FAL/2920



Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA CILINDRO SIN SOLDADURA NON-WELDED CYLINDER DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET Nr.

013

REV. 09

FECHA
DATE 03/05

REALIZADO

DONE BY

REVISADO

CHECKED BY

APROBADO

APPROVED BY

02/97

03/05

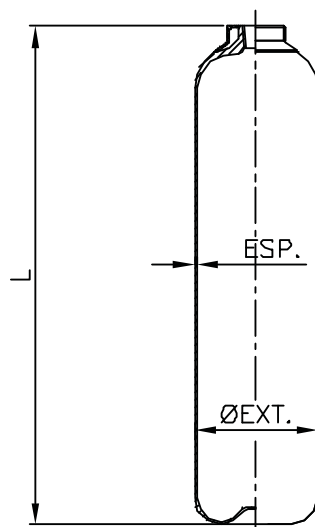
03/05

PRESENTACIÓN

Botellas de acero (Cr-Mo) sin soldadura, para contener gases comprimidos, líquidos o disueltos a presión.

INTRODUCTION

Steel (Cr-Mo) Non-welded cylinders for compressed, liquid or pressure-dissolved gases.



CAPACIDAD CAPACITY	ROSCAS THREADS
5L 0.17 ft. ³	1" NPT-NGT
13.4L 0.47 ft. ³	M30 x 1.5 DIN13
26.8L 0.94 ft. ³	W 28.8-14 DIN477
40.2L 1.42 ft. ³	R. 1½" ISO 228
67.0L 2.36 ft. ³	1" NPT-NGT
67.5L 2.37 ft. ³	
75L 2.64 ft. ³	2½" 12UN 2A 60° α
80L 2.82 ft. ³	W 28.8-14 DIN477
	1" NPT-NGT

MATERIAL: / MATERIAL: Acero / Steel Cr-Mo -W 222-BW

COMPOSICIÓN QUÍMICA CHEMICAL COMPOSITION	PROPIEDADES FÍSICAS	PHISICAL PROPERTIES	TRATAMIENTO TÉRMICO HEAT TREATMENT
C = 0.45% Max. Mn = 1.10% Max. Si = 0.10% Min. Cr = 0.70% Min. Mo = 0.12% Min. P = 0.050% Max. S = 0.050% Max.	Límite elástico ≥ 77 kg./mm. ² Carga de rotura ≥ 88 kg./mm. ² Alargamiento ≥ 12% (Lo=5.65 √So) Resiliencia (Charpy V; t=0° C) Media ≥ 6 kg./cm. ² Mínimo ≥ 4 kg./cm. ²	Yield point ≥ 111727 lbs./in. ² Tensile strength ≥ 127688 lbs./in. ² Elongation ≥ 12% (Lo=5.65 √So) Impact test (Charpy V; t=0° F) Medium ≥ 87.1 lbs./in. ² Minimum ≥ 58.4 lbs./in. ²	Templado en aceite y revenido Oil hardening and tempered

CARACTERÍSTICAS TÉCNICAS / TECHNICAL CHARACTERISTICS

CAPACIDAD CAPACITY	Ø EXT. ±1% Ø EXT. ±1%	ESPEORMIN. MIN. THICKNESS	LONGITUD ±10 mm LENGTH ±10 mm	PESO WEIGHT	PRUEBA HIDRAULICA HYDRAULIC TEST	HOMOLOGACIONES, REGISTRO TIPO APPROVALS, TYPE REGISTERED	DENSIDAD MAX. LLENADO kg./L. MAXIMUM FILLING DENSITY lbs./ft. ³
5L 0.17 ft. ³	140 mm. 5.5 in.	3.03 mm. 0.11 in.	460 mm. 18.1 in.	12 kg. 26.6 lbs.			HFC-125 0.93 kg./L. 58.58 lbs./ft. ³
13.4L 0.47 ft. ³	140 mm. 5.5 in.	3.62 mm. 0.14 in.	1060 mm. 41.7 in.	20 kg. 44.4 lbs.			HFC-227 1.15 kg./L. 71.8 lbs./ft. ³
26.8L 0.94 ft. ³	229 mm. 9.0 in.	4.8 mm. 0.18 in.	940 mm. 37.0 in.	43 kg. 95.5 lbs.			SIH: 0.90 kg./L. 56.2 lbs./ft. ³
40.2L 1.42 ft. ³	229 mm. 9.0 in.	4.8 mm. 0.18 in.	1240 mm. 48.8 in.	47 kg. 104.4 lbs.			CO ₂ 0.75 kg./L. 46.8 lbs./ft. ³
67.0L 2.36 ft. ³	267 mm. 10.5 in.	5.6 mm. 0.22 in.	1485 mm. 58.5 in.	74 kg. 164.4 lbs.			FE-13: 0.85 kg./L. 53.1 lbs./ft. ³
67.5L 2.37 ft. ³	267 mm. 10.5 in.	4.9 mm. 0.16 in.	1450 mm. 57.1 in.	68 kg. 151 lbs.			ARGON: solo para just for 80L
75L 2.64 ft. ³	267 mm. 10.5 in.	5.6 mm. 0.22 in.	1665 mm. 65.5 in.	82 kg. 182.2 lbs.			
80L 2.82 ft. ³	267 mm. 10.5 in.	5.6 mm. 0.22 in.	1803 mm. 70.9 in.	107 kg. 237.7 lbs.			
					250 bar. 3625 psi.	R77/01	
					300 bar. 4350 psi.		

APPROVALS: Transportable Pressure Equipment Directive 99/36/EC

IMPORTANTE

LPG Técnicas en Extinción de Incendios S.A., se reserva el derecho a modificar sin previo aviso cualquier dato o especificación reflejada en este documento con el propósito de realizar cambios o mejoras en los productos presentados.

IMPORTANT

LPG Técnicas en Extinción de Incendios S.A., reserves the right to change or modify without previous notice any data or specification due to changes or modification in order to improve the products presented.

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA VÁLVULA LPG 128-20

LPG 128-20 VALVE DATA SHEET

NÚMERO F. TÉCNICA
DATA SHEET Nr.

140

REV. 00

FECHA
DATE

11/03

REALIZADO

DONE BY

ALFREDO

11/03

REVISADO

CHECKED BY

11/03

APROBADO

APPROVED BY

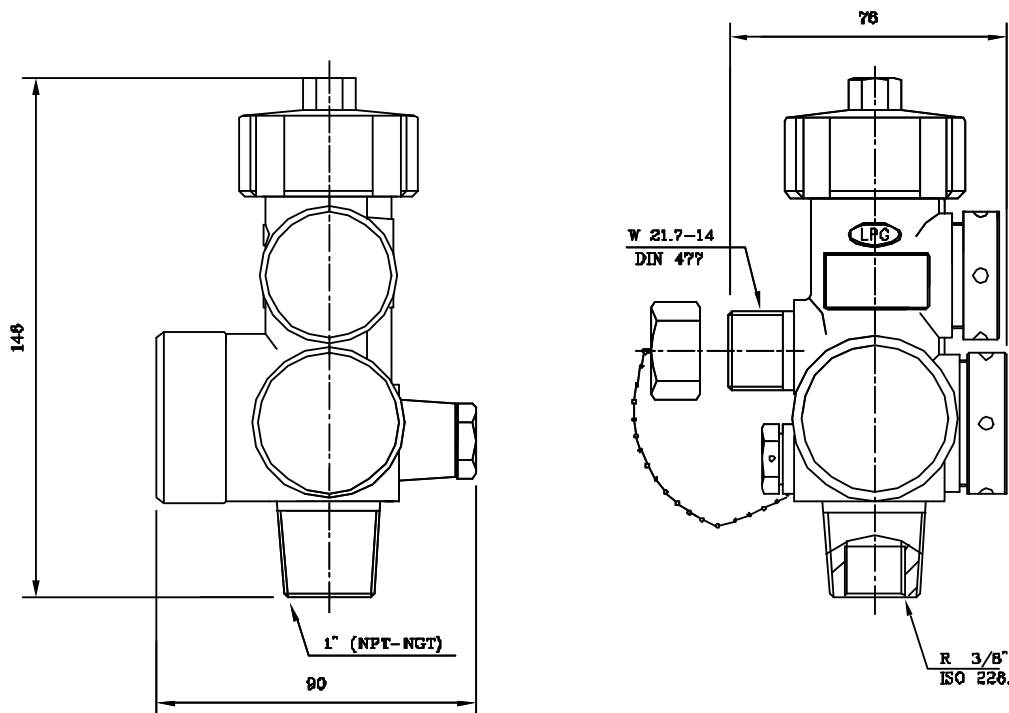
11/03

PRESENTACIÓN

La válvula de apertura diferencial LPG 128-20 ofrece una amplia gama de posibilidades en cuanto a sistemas de activación y control. Está diseñada para su utilización como válvula de cilindros piloto en sistemas centralizados de CO₂ y Nitrógeno para la Industria y Marina.

INTRODUCTION

LPG 128-20 is a quick opening differential valve with a wide range of possibilities regarding activation & control systems; especially designed for use as valve for pilot cylinders in centralized systems for CO₂ and Nitrogen in Industry and Navy.



CARACTERÍSTICAS TÉCNICAS / TECHNICAL CHARACTERISTICS.

P. MAX. TRABAJO	P. MIN. FUNCIONAMIENTO	P. PRUEBA FUNCIONAL	PRUEBA HIDRAULICA	TEMPERATURA TRABAJO	MEMBRANA SEGURIDAD	PESO	AREA LIBRE DE PASO
MAX. WORKING PRESSURE	MIN. WORKING PRESSURE	FUNCTIONAL PRESSURE T.	HYDRAULIC TEST	WORKING TEMPERATURE	SAFETY DISC	WEIGHT	FREE CROSS SECTIONAL AREA
166 bar.	6 bar.	60 bar.	250 bar.	-20°C -60°C	190 ± 10 bar.	1.6 kg.	50.26 mm ²
2407 psi.	87 psi.	870 psi.	3625 psi.	-4°F - 140°F	2750 ± 145 psi.	3.5 lbs.	

SIST. DISPARO OPCIONALES: **Eléctrico por Solenoide, Pirotécnico, Neumático y Manual.**

OPTIONNAL RELEASE SYSTEMS: Electric by Solenoid, Pyrotechnic, Pneumatic and Hand Release.

ACCESORIOS / ACCESSORIES: **Manómetro, Presostato.** / Pressure gauge, Pressure switch.

MATERIALES DE CONSTRUCCIÓN / BUILDING MATERIALS.

CUERPO	PISTÓN	EJE	PORTAJUNTAS	JUNTA CIERRE	JUNTA TÓRICA
BODY	PISTON	AXLE	JOINTHOLDER	SEALING JOINT	O-RING
Latón Brass Cu Zn ₄₀ Pb ₂ EN 12165: 98 tab4	Latón Brass Cu Zn ₃₀ Pb ₃ EN 12164: 98 tab2	Acero INOX AISI-303 Stainless steel AISI-303	Acero INOX AISI-303 Stainless steel AISI-303	Teflón / Teflón + F.V PTFE / PTFE + G.F	Nitrilo Nitrile

IMPORTANTE

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA CILINDRO SIN SOLDADURA NON-WELDED CYLINDER DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET Nr.

013

REV. 09

FECHA
DATE 03/05

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REVISADO

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APROBADO

APPROVED BY

02/97

03/05

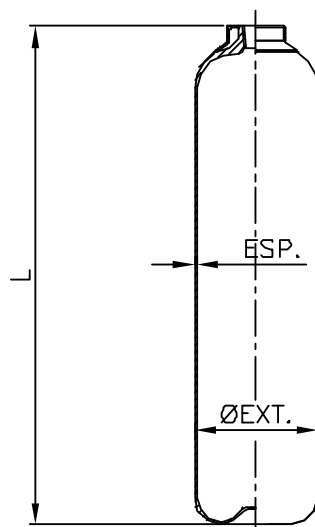
03/05

PRESENTACIÓN

Botellas de acero (Cr-Mo) sin soldadura, para contener gases comprimidos, líquidos o disueltos a presión.

INTRODUCTION

Steel (Cr-Mo) Non-welded cylinders for compressed, liquid or pressure-dissolved gases.



CAPACIDAD CAPACITY	ROSCAS THREADS
5L 0.17 ft. ³	1" NPT-NGT
13.4L 0.47 ft. ³	M30 x 1.5 DIN13
26.8L 0.94 ft. ³	W 28.8-14 DIN477
40.2L 1.42 ft. ³	R. 1½" ISO 228
67.0L 2.36 ft. ³	1" NPT-NGT
67.5L 2.37 ft. ³	
75L 2.64 ft. ³	2½" 12UN 2A 60° α
80L 2.82 ft. ³	W 28.8-14 DIN477
	1" NPT-NGT

MATERIAL: / MATERIAL: Acero / Steel Cr-Mo -W 222-BW

COMPOSICIÓN QUÍMICA CHEMICAL COMPOSITION	PROPIEDADES FÍSICAS	PHISICAL PROPERTIES	TRATAMIENTO TÉRMICO HEAT TREATMENT
C = 0.45% Max. Mn= 1.10% Max. Si = 0.10% Min. Cr = 0.70% Min. Mo= 0.12% Min. P = 0.050% Max. S = 0.050% Max.	Límite elástico ≥ 77 kg./mm. ² Carga de rotura ≥ 88 kg./mm. ² Alargamiento ≥ 12% (Lo=5.65 √So) Resiliencia (Charpy V; t=0° C) Media ≥ 6 kg./cm. ² Mínimo ≥ 4 kg./cm. ²	Yield point ≥ 111727 lbs./in. ² Tensile strength ≥ 127688 lbs./in. ² Elongation ≥ 12% (Lo=5.65 √So) Impact test (Charpy V; t=0° F) Medium ≥ 87.1 lbs./in. ² Minimum ≥ 58.4 lbs./in. ²	Templado en aceite y revenido Oil hardening and tempered

CARACTERÍSTICAS TÉCNICAS / TECHNICAL CHARACTERISTICS

CAPACIDAD CAPACITY	Ø EXT. ±1% Ø EXT. ±1%	ESPEORMIN. MIN. THICKNESS	LONGITUD ±10 mm LENGTH ±10 mm	PESO WEIGHT	PRUEBA HIDRAULICA HYDRAULIC TEST	HOMOLOGACIONES, REGISTRO TIPO APPROVALS, TYPE REGISTERED	DENSIDAD MAX. LLENADO kg./L. MAXIMUM FILLING DENSITY lbs./ft. ³
5L 0.17 ft. ³	140 mm. 5.5 in.	3.03 mm. 0.11 in.	460 mm. 18.1 in.	12 kg. 26.6 lbs.			HFC-125 0.93 kg./L. 58.58 lbs./ft. ³
13.4L 0.47 ft. ³	140 mm. 5.5 in.	3.62 mm. 0.14 in.	1060 mm. 41.7 in.	20 kg. 44.4 lbs.			HFC-227 1.15 kg./L. 71.8 lbs./ft. ³
26.8L 0.94 ft. ³	229 mm. 9.0 in.	4.8 mm. 0.18 in.	940 mm. 37.0 in.	43 kg. 95.5 lbs.	250 bar. 3625 psi.		SIH: 0.90 kg./L. 56.2 lbs./ft. ³
40.2L 1.42 ft. ³	229 mm. 9.0 in.	4.8 mm. 0.18 in.	1240 mm. 48.8 in.	47 kg. 104.4 lbs.		R77/01	CO ₂ 0.75 kg./L. 46.8 lbs./ft. ³
67.0L 2.36 ft. ³	267 mm. 10.5 in.	5.6 mm. 0.22 in.	1485 mm. 58.5 in.	74 kg. 164.4 lbs.			FE-13: 0.85 kg./L. 53.1 lbs./ft. ³
67.5L 2.37 ft. ³	267 mm. 10.5 in.	4.9 mm. 0.16 in.	1450 mm. 57.1 in.	68 kg. 151 lbs.			ARGON: solo para just for 80L
75L 2.64 ft. ³	267 mm. 10.5 in.	5.6 mm. 0.22 in.	1665 mm. 65.5 in.	82 kg. 182.2 lbs.			
80L 2.82 ft. ³	267 mm. 10.5 in.	5.6 mm. 0.22 in.	1803 mm. 70.9 in.	107 kg. 237.7 lbs.	300 bar. 4350 psi.		200 bar. (15°C.) 2900 psi. (59°F.)

APPROVALS: Transportable Pressure Equipment Directive 99/36/EC

IMPORTANTE

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA VÁLVULA LPG 128-20

LPG 128-20 VALVE DATA SHEET

NÚMERO F. TÉCNICA
DATA SHEET Nr.

140

REV. 00

FECHA
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11/03

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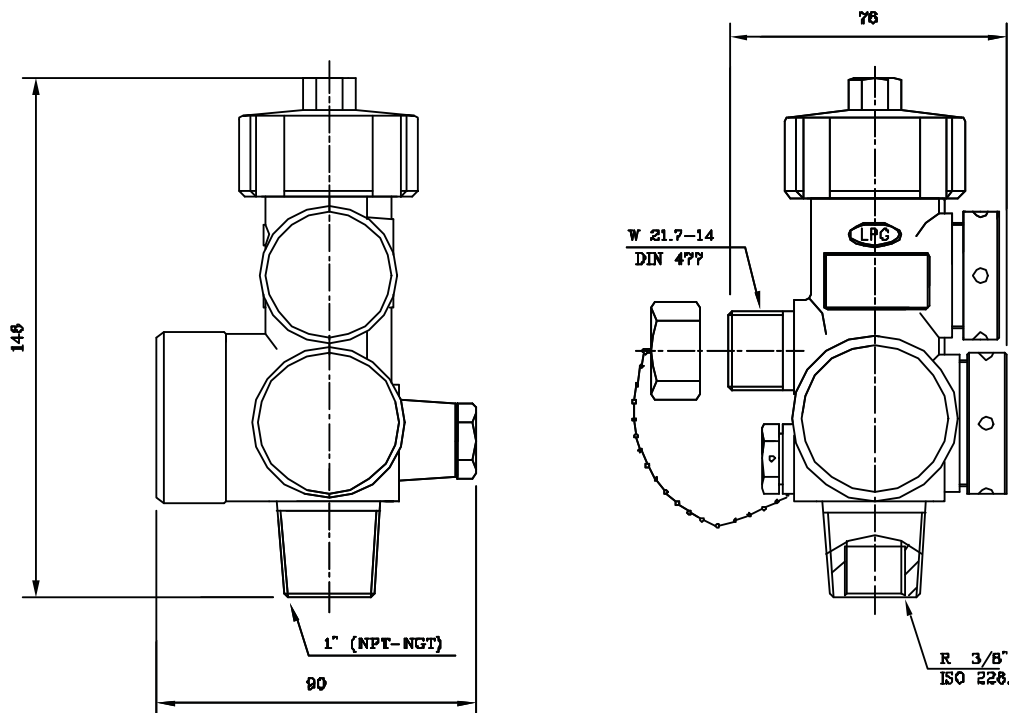
11/03

PRESENTACIÓN

La válvula de apertura diferencial LPG 128-20 ofrece una amplia gama de posibilidades en cuanto a sistemas de activación y control. Está diseñada para su utilización como válvula de cilindros piloto en sistemas centralizados de CO₂ y Nitrógeno para la Industria y Marina.

INTRODUCTION

LPG 128-20 is a quick opening differential valve with a wide range of possibilities regarding activation & control systems; especially designed for use as valve for pilot cylinders in centralized systems for CO₂ and Nitrogen in Industry and Navy.



CARACTERÍSTICAS TÉCNICAS / TECHNICAL CHARACTERISTICS.

P. MAX. TRABAJO	P. MIN. FUNCIONAMIENTO	P. PRUEBA FUNCIONAL	PRUEBA HIDRAULICA	TEMPERATURA TRABAJO	MEMBRANA SEGURIDAD	PESO	AREA LIBRE DE PASO
MAX. WORKING PRESSURE	MIN. WORKING PRESSURE	FUNCTIONAL PRESSURE T.	HYDRAULIC TEST	WORKING TEMPERATURE	SAFETY DISC	WEIGHT	FREE CROSS SECTIONAL AREA
166 bar.	6 bar.	60 bar.	250 bar.	-20°C -60°C	190 ± 10 bar.	1.6 kg.	50.26 mm ²
2407 psi.	87 psi.	870 psi.	3625 psi.	-4°F - 140°F	2750 ± 145 psi.	3.5 lbs.	

SIST. DISPARO OPCIONALES: **Eléctrico por Solenoide, Pirotécnico, Neumático y Manual.**

OPTIONNAL RELEASE SYSTEMS: Electric by Solenoid, Pyrotechnic, Pneumatic and Hand Release.

ACCESORIOS / ACCESSORIES: **Manómetro, Presostato.** / Pressure gauge, Pressure switch.

MATERIALES DE CONSTRUCCIÓN / BUILDING MATERIALS.

CUERPO	PISTÓN	EJE	PORTAJUNTAS	JUNTA CIERRE	JUNTA TÓRICA
BODY	PISTON	AXLE	JOINTHOLDER	SEALING JOINT	O-RING
Latón Brass Cu Zn ₄₀ Pb ₂ EN 12165: 98 tab4	Latón Brass Cu Zn ₃₀ Pb ₃ EN 12164: 98 tab2	Acero INOX AISI-303 Stainless steel AISI-303	Acero INOX AISI-303 Stainless steel AISI-303	Teflón / Teflón + F.V PTFE / PTFE + G.F	Nitrilo Nitrile

IMPORTANTE

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA VÁLVULA
ANTIRRETORNO $\varnothing$ 1/4"
NON RETURN
VALVE $\varnothing$ 1/4" DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET Nr.

026

REV. 07

FECHA
DATE

06/05

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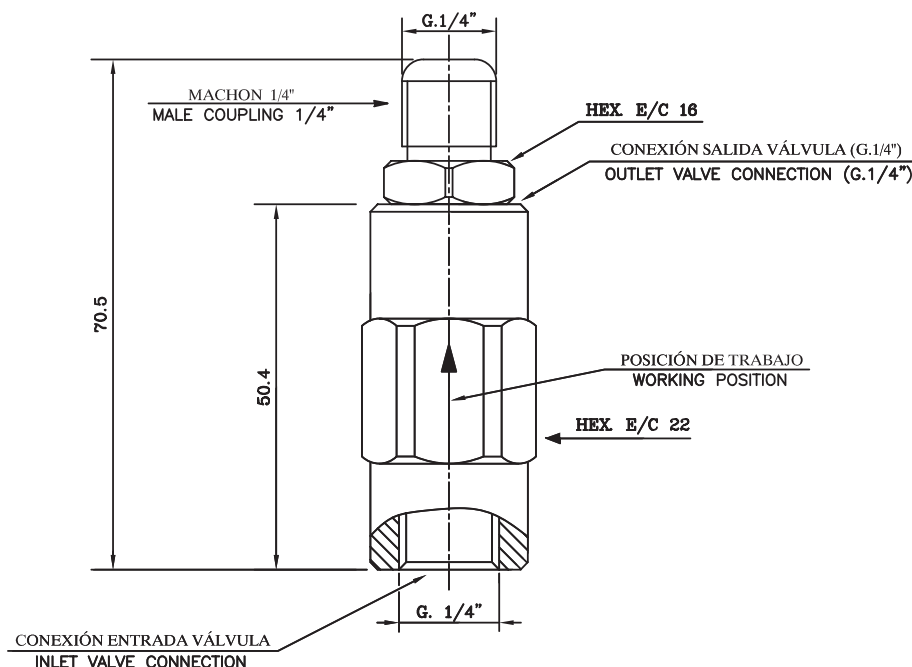
06/05

PRESENTACIÓN

La Válvula Antirretorno de 1/4" LPG es un dispositivo sencillo, fiable y de pequeñas dimensiones especialmente diseñado para ser utilizado en sistemas neumáticos de disparo de baterías. Permite el paso del fluido en un solo sentido por medio de un mecanismo interno de pistón.

INTRODUCTION

The Non-Return 1/4" LPG Valve is a simple, small dimensioned and reliable device specially designed to be used in pneumatic release systems of batteries. It allows that gas flows in only one direction by means of an inner piston mechanism.



CARACTERÍSTICAS TÉCNICAS	TECHNICAL CHARACTERISTICS.
PRESIÓN DE TRABAJO: 240 bar.	WORKING PRESSURE: 3480 psi.
PESO: 0,150 kg.	WEIGHT: 0.333 lbs.
PRESIÓN MÍN. APERTURA: 55 bar.	MIN. OPENING PRESSURE: 798 psi.

MATERIALES	MATERIALS
CUERPO: LATÓN EN12164: 98 tab2	BODY: BRASS EN12164: 98 tab2
PISTÓN INTERNO: LATÓN EN12164: 98 tab2	INNER PISTON: BRASS EN12164: 98 tab2
MUELLE RECUPERACIÓN: ACERO INOX AISI-303	RE-SET SPRING: STAINLESS STEEL AISI-303
MACHON 1/4": LATÓN EN12164: 98 tab2	MALE COUPLING BRASS EN12164: 98 tab2

NOTA: ROSCAS SEGÚN ISO 228

NOTE: THREADS ACCORDING TO ISO 228

IMPORTANTE

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA LATIGUILLO R2F

R2F HOSE DATA SHEET

NÚMERO TÉCNICA
DATA SHEET N.º

139

REV. 01

FECHA
DATE 07/04

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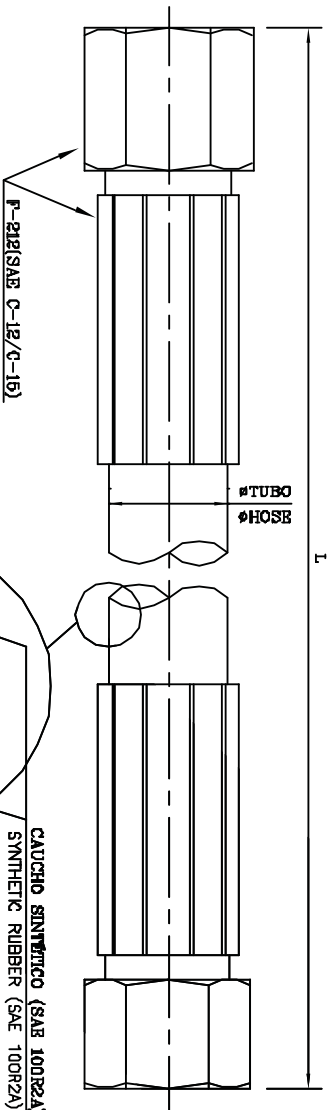
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PRESENTACIÓN

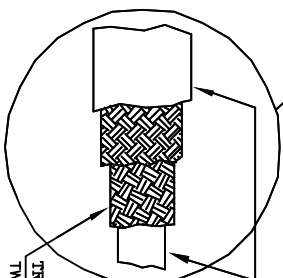
Utilizados como conductos para vehicular la descarga de cilindros en sistemas modulares o centralizados con agentes extintores

INTRODUCTION

Used as conduction to drive the discharge of cylinders in modular or centralized systems with extinguishing agents at high working pressure.



CAUCHO SINTÉTICO (SAB 100R2A)
SYNTHETIC RUBBER (SAE 100R2A)



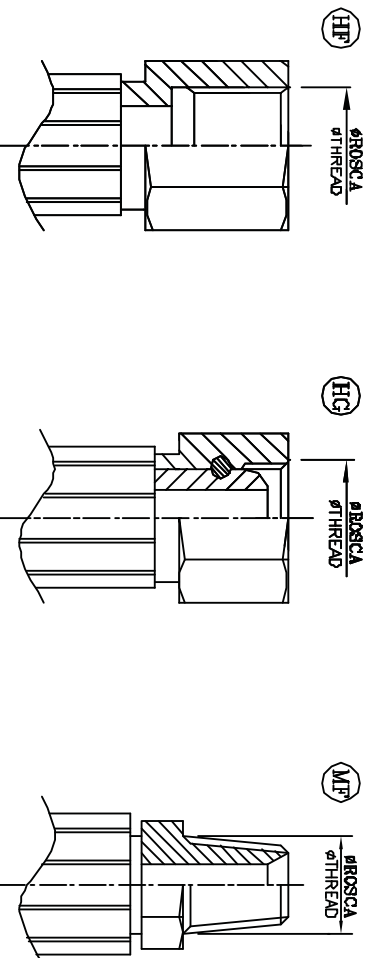
TREZADO (ACERO GALVANIZADO 008)
TWISTED WIRES (GALVANISED STEEL 008)

MECANIZADO
MECHANIZED:

* HF: Hembra fija
Fixed female nut

* HG: Hembra giratoria
Turning female nut

* MF: Macho fijo
Fixed male



CARACTERÍSTICAS TÉCNICAS / TECHNICAL CHARACTERISTICS

Ø ROSCA - MECANIZADO	COD. Nº	L(mm) L(m)	DN	Ø TUBO (mm) PHOSE (m)	PRISIÓN TRABAJO WORKING PRESSURE	TEMPERATURA TRABAJO WORKING TEMPERATURE	PRISIÓN ROTURA BURST PRESSURE	RADIO CURVATURA BENDING RADIUS
* 1/2" (MF) / 1/2.1" (HG)	30521041	350	1.2"	12.7 0.5	840 bar 8404 psi	-40°C ~ 80°C -40°F ~ 248°F	980 bar 12892 psi	178 mm 7.0 in.
G.3/4" (HG) / G.3/4" (HF)	30506070	400	3/4"	28.5 1.16	840 bar 8404 psi	-40°C ~ 120°C -40°F ~ 248°F	980 bar 12892 psi	121 mm 4.76 in.
G.1" (HG) / G.1" (HG)	30027400	320	1"	40.1 1.57	165 bar 8002 psi	-40°C ~ 180°C -40°F ~ 348°F	740 bar 10720 psi	162 mm 6.37 in.
G.1" (HG) / G.1" (HF)	30502140	400	1"	40.1 1.57	165 bar 8002 psi	-40°C ~ 180°C -40°F ~ 348°F	740 bar 10720 psi	162 mm 6.37 in.

* ROSCA NPT
THREAD NPT

□ ROSCA DIN177
THREAD DIN177

○ ROSCA ISO228
THREAD ISO228

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA CABEZAL NEUMÁTICO LPG 110

LPG 110 PNEUMATIC OPERATED CONTROL HEAD DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET Nr.

023

REV. 05

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DATE

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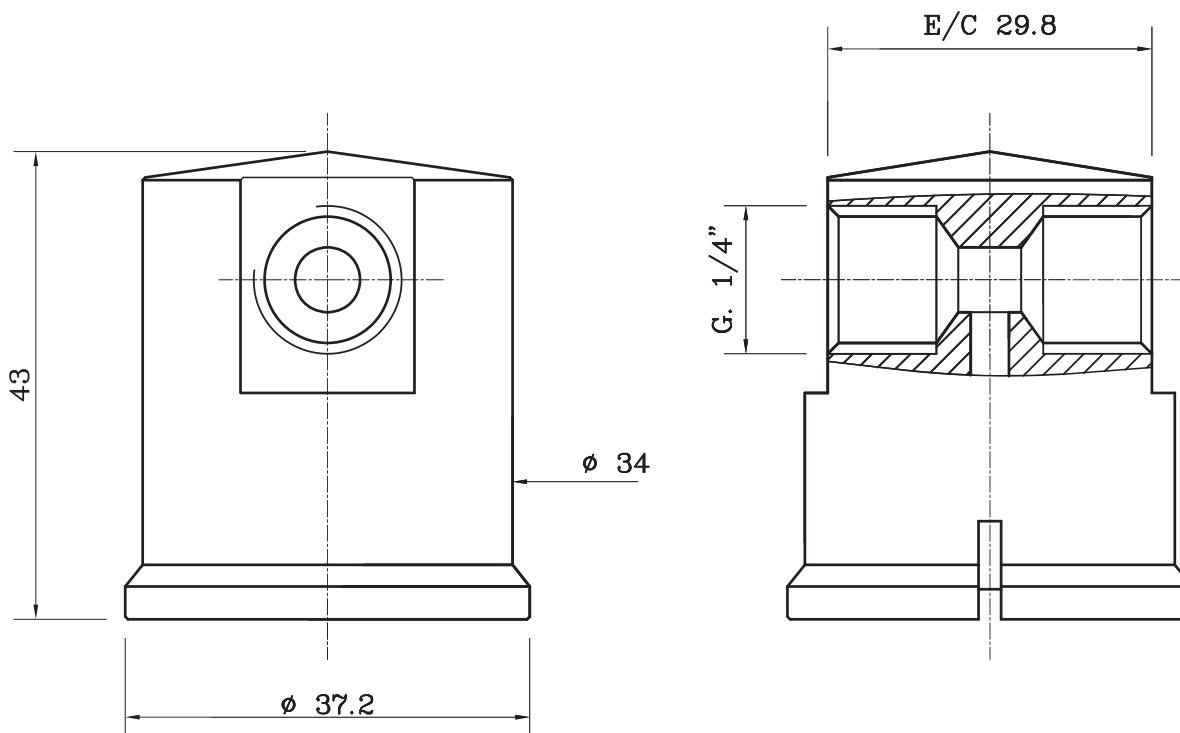
03/06

PRESENTACIÓN

El Cabezal Neumático LPG 110 se utiliza como elemento de disparo en baterías de CO₂. Este Cabezal está diseñado para permitir la apertura neumática de la válvula LPG 110 y se fabrica en 1, 2 o 3 vías.

INTRODUCTION

The LPG 110 Pneumatic Head is used as a release device in CO₂ batteries. This head is designed to allow the pneumatic release of the LPG 110 valve and it is manufactured in 1, 2, and 3 working ways.



PRESION MAX. DE TRABAJO: 140 bars

MAX. WORKING PRESSURE: 2030 psi

		CODIGO N°. PART N°.	PESO WEIGHT	MATERIAL
1 VÍA 1 WAY		30100100	0.247 kg. 0.548 lbs.	CUERPO: LATÓN BODY: BRASS EN12164: 98 tab2
2 VÍAS 2 WAYS		30100102	0.231 kg. 0.513 lbs.	PISTÓN: LATÓN PISTON: BRASS EN12164: 98 tab2
3 VÍAS 3 WAYS		30100103	0.222 kg. 0.493 lbs.	

HOMOLOGACIONES: Certificado aprobación VDS. Aprobación N° G300012

APPROVAL: Certificate of approval VDS. Approval N° G300012

NOTA: ROSCAS SEGÚN ISO 228

NOTE: THREADS ACCORDING TO ISO 228

IMPORTANTE

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA DIFUSOR CO₂

CO₂ NOZZLE DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET Nr.

015

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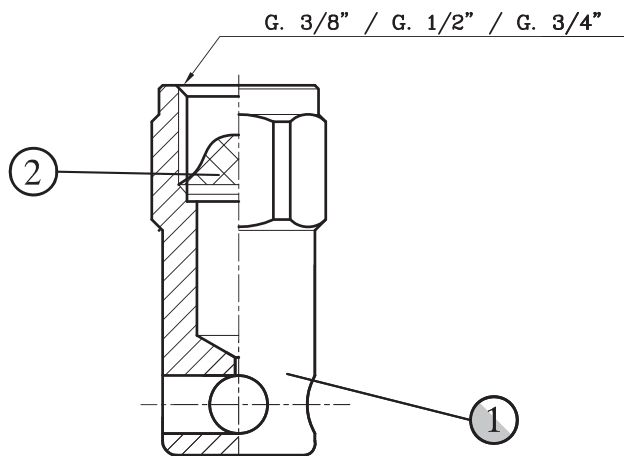
10/08

PRESENTACIÓN

Difusor para CO₂. Permite influir sobre su caudal (tiempo de descarga) calibrando su orificio interno.

INTRODUCTION

CO₂ Nozzle. Allows to modify its discharge flow rate by calibrating its inner orifice.



Ø Mínimo de calibrado: 1 mm

Presión de Trabajo: 140 bar

Minimum calibrating diameter: 1 mm

Working Pressure: 2030.5 psi

POSICIÓN POSITION	DENOMINACIÓN NAME	MATERIAL MATERIAL
1	Difusor Nozzle	Latón cromo-niquelado Chrome-nickel plated brass Latón CW614N Brass Std. EN12164:98 tab2 Espesor capa Cr: 0.5 µm Coat thickness Ni: 16 µm
*2	Filtro malla metálica ∇ (0.65 mm) Metalic screen ∇ (0.025 in)	Acero INOX AISI-302 (Ø 0.3 mm) Stainless steel INOX AISI-302 (Ø 0.011 in)

* SOLO PARA CALIBRADOS MENORES DE 3 mm

* ONLY FOR CALIBRATIONS SMALLER THAN 3 mm

APPROVALS: Certificate of approval VDS. Approval N° G303011

IMPORTANTE

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IMPORTANT

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA LATIGUILLO DE TEFLÓN PTFE HOSE DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET N°.

040

REV. 07

FECHA
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11/03

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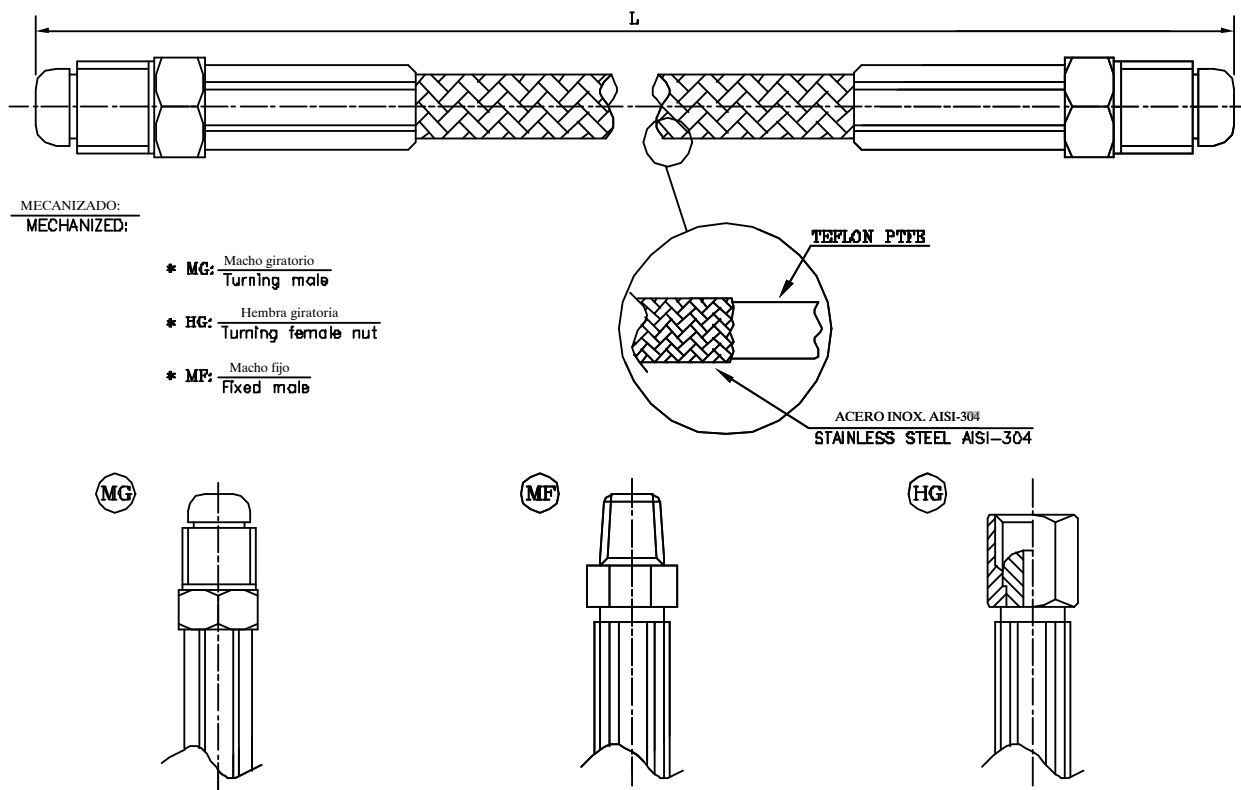
11/03

PRESENTACIÓN

Utilizados como conductos para conducir el sistema de disparo en baterías o como latiguillo flexible para la descarga de cilindros modulares. Son compatibles con cualquier agente extintor gaseoso.

INTRODUCTION

Used as conduction to drive release systems in batteries or as flexible hose to the discharge of modular cylinders. The PTFE hoses can be used with whichever gaseous extinguishing agent.



MECANIZADO:
MECHANIZED:

- * MG: Macho giratorio
Turning male
- * HG: Hembra giratoria
Turning female nut
- * MF: Macho fijo
Fixed male

CARACTERÍSTICAS TÉCNICAS / TECHNICAL CHARACTERISTICS

Ø ROSCA-MECANIZADO Ø THREAD-MECHANIZATION	COD. N° PART N°	L(mm) L(m)	DN	PRESIÓN TRABAJO WORKING PRESSURE	TEMPERATURA TRABAJO WORKING TEMPERATURE	PRESIÓN ROTURA BURST PRESSURE	RADIO CURVATURA BENDING RADIUS	MATERIAL TERMINALES COUPLING MATERIAL
* 1/8" (MF) / R 1/8" (HG)	30503290	160 6.3	3/16"	270 bar 3915 psi.	-40°C ~240°C -40°F ~464°F	810 bar. 11745 psi.	30 mm. 1.18 in.	LATÓN BRASS DIN 17660
R 1/4" (MG) / R 1/4" (MG)	30500041	350 13.7	1/4"	260 bar 3770 psi.	-40°C ~240°C -40°F ~464°F	780 bar. 11310 psi.	30 mm. 1.18 in.	LATÓN BRASS DIN 17660
R 1/4" (MG) / R 1/4" (MG)	30506014	580 22.8	1/4"					
R 1/4" (MG) / R 1/4" (MG)	30522001	700 27.5	1/4"					
R 1/4" (MG) / R 1/4" (MG)	30532001	155 6.1	1/4"					
W 21.7 (HG) / 1/2" (MF)	30521040	350 13.7	1/2"	180 bar 2610 psi.	-40°C ~240°C -40°F ~464°F	540 bar. 7830 psi.	110 mm 4.3 in.	F-212 (SAE C-12/C-15)
* 1/2" (MF) / W 21.7 CODO	30542300	300 11.8	1/2"					
* 1/2" (MF) / W 21.7 CODO	30542210	210 8.2	1/2"					
R 3/4" (HG) / 3/4" (MF)	305050TF	430 16.9	3/4"	92 bar 1334 psi.	-40°C ~240°C -40°F ~464°F	380 bar. 5510 psi.	145 mm 5.7 in.	F-212 (SAE C-12/C-15)

* ROSCA NPT
THREAD NPT

□ ROSCA DIN477
THREAD DIN477

○ ROSCA ISO228
THREAD ISO228

IMPORTANTE

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IMPORTANT

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Técnicas en Extinción
de Incendios S.A.

FICHA TÉCNICA VÁLVULA DE RETENCIÓN CO₂ Ø 1/2"

CO₂ CHECK VALVE Ø 1/2" DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET Nr.

022

REV. 02

FECHA
DATE

06/03

REALIZADO

DONE BY

REVISADO

CHECKED BY

APROBADO

APPROVED BY

02/97

06/03

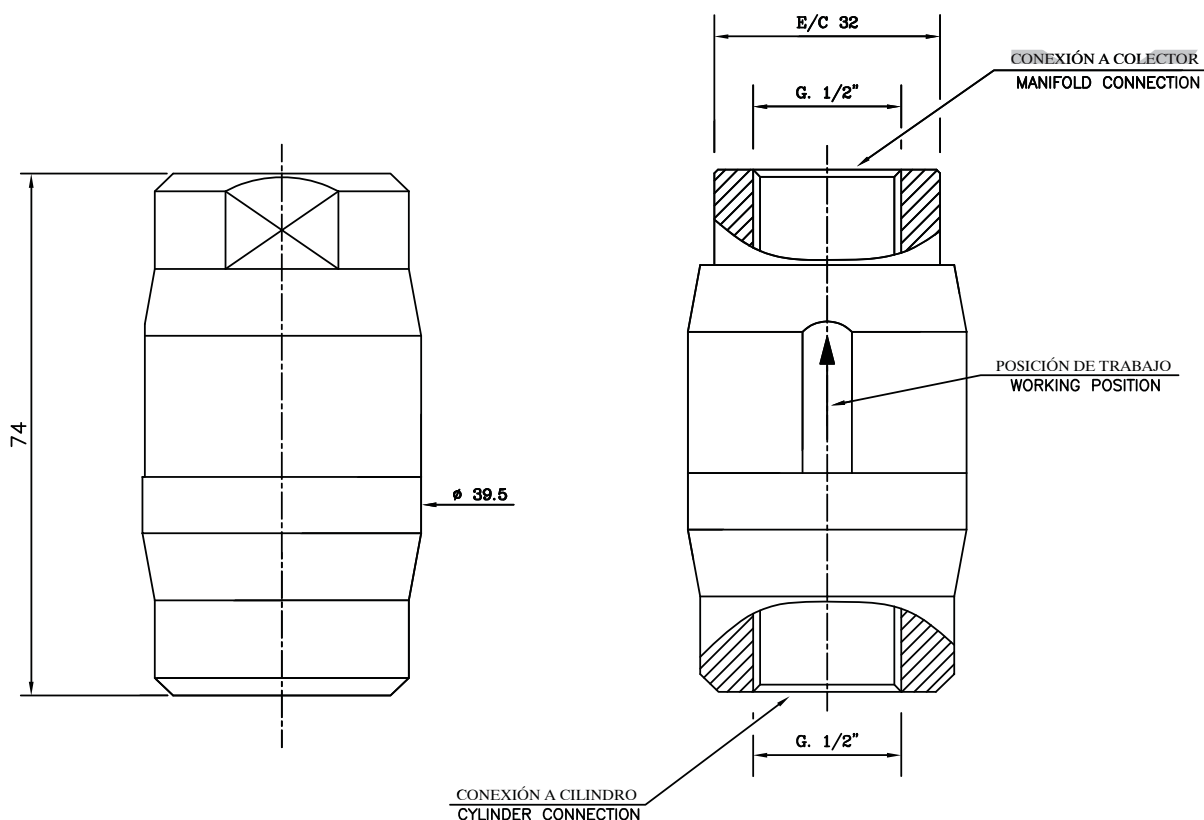
06/03

PRESENTACIÓN

La Válvula Antirretorno LPG, se utiliza como elemento de disparo en baterías de CO₂. Se utiliza para impedir que el agente extintor descargado en el colector pueda entrar de nuevo en los cilindros.

INTRODUCTION

The LPG Non-Return Valve, is used as release device in CO₂ batteries. It is used to avoid that extinguisher agent released in the manifold may return to the cylinders.



MATERIAL	PESO WEIGHT
CUERPO: LATÓN BODY: BRASS	0,473 kg. 1,051 lbs.
BOLA DE CIERRE: INNER BALL:	0,002 kg. 0.005 lbs.

NOTA: ROSCAS SEGÚN ISO 228

NOTE: THREADS ACCORDING TO ISO 228

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Técnicos en Extinción
de Incendios S.A.

FICHA TÉCNICA TORNILLO DESCOMPRESION R. 1/4" "C" Y "L" "C" & "L" DECOMPRESSION SCREW R. 1/4" DATA SHEET

NÚMERO F.TÉCNICA
DATA SHEET N.º

070

REV. 05

FECHA
DATE

07/03

REALIZADO

DONE BY

REVISADO

CHECKED BY

APROBADO

APPROVED BY

07/03

07/03

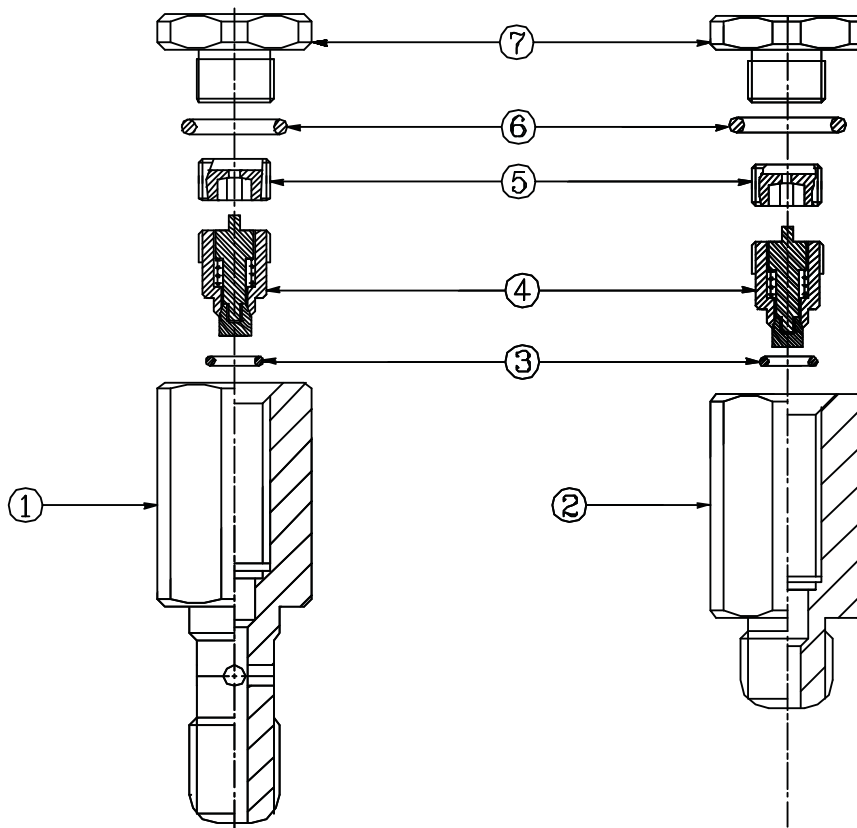
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PRESENTACIÓN

Dispositivo para la descompresión controlada de la presión retenida en el circuito neumático de disparo tras la activación de sistemas centralizados de extinción.

INTRODUCTION

Device for the controlled exhaust of the internal pressure in the pneumatic release circuit after the activation of centralized extinguishing systems.



CARACTERÍSTICAS TÉCNICAS		TECHNICAL CHARACTERISTICS.	
PRESIÓN DE TRABAJO:	140 bar.	WORKING PRESSURE:	2031 psi.
PRESIÓN DE PRUEBA:	420 bar.	PRESSURE TEST:	5221 psi.

	MATERIALES		MATERIALS		CODIGO
1	TORNILLO LARGO	LATÓN EN12164:98tab2	LARGE SCREW	BRASS EN12164:98tab2	3080008C
2	TORNILLO CORTO	LATÓN EN12164:98tab2	SHORT SCREW	BRASS EN12164:98tab2	3080008C
3	JUNTA TORICA	NITRILO	O-RING	NITRILE	
4	OBUS M.10x1	VARIOS	CHECK VALVE M.10x1	VARIOS	
5	ACCIONADOR	LATÓN EN12164:98tab2	ACTUATOR	BRASS EN12164:98tab2	
6	JUNTA TORICA	NITRILO	O-RING	NITRILE	
7	TAPON DE CIERRE	LATÓN EN12164:98tab2	SAFETY PLUG	BRASS EN12164:98tab2	

NOTA: ROSCAS SEGÚN ISO 228

NOTE: THREADS ACCORDING TO ISO 228

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