

CO₂ High-Pressure Suppression Systems

Product Catalogue 2018 | EMEA





Factory Assembly Cylinders Rack With Weighing Device

Made In Germany

VIKING®



Version: 2018-01

Product Catalog

Gas-Based Suppression System

Carbon Dioxide Extinguishing Systems

Fight fires using CO₂ High Pressure

This product catalog is intended for sales purposes only. For planning, installation, commissioning and operation, please refer to the corresponding technical documentation, which are enclosed with the products.



Extinguishing technology CO₂ HP

Cylinder CO₂ filled

CO₂ - Cylinder EU



Approvals



- 1) Part of the system approval:
- CO₂ extinguishing system HD-1 (S398010) / HD-2 (S398011)
- 2) 80 l - Cylinder are not part of the VdS system approval

SAP designation

e.g. part no. 888214: Steel cylinder 5,4+3,6kg-CO₂-EU

Maintenance

maintenance-free

Nominal volume	Filling quantity kg (lbs)	Dip-tube	Odorisation	Part no.	Weight approx. kg (lbs)
5.4 l	3.6 (7.9) ³⁾	without	-	888214	11.5 / 13 (25 / 29) ⁴⁾
	4 (8.8)	without	5 ml	888215	11.5 / 13 (25 / 29) ⁴⁾
	4 (8.8)	rigid	5 ml	888216	12.5 / 14 (28 / 31) ⁴⁾
10.7 l	7.1 (15.7) ³⁾	without	-	888217	24 (53)
	8 (17.6)	without	5 ml	888218	24 (53)
	7.1 (15.7) ³⁾	rigid	5 ml	888219	23 (51)
13.4 l	10 (22.1)	rigid	5 ml	888220	29 (64)
40 l	27 (59.5) ³⁾	rigid	-	888221	76 / 62 / 78 (168 / 137 / 172) ⁴⁾
	30 (66.1)	without	5 ml	888222	78 / 64 / 80 (172 / 141 / 176) ⁴⁾
	30 (66.1)	rigid	5 ml	888223	79 / 65 / 81 (174 / 143 / 179) ⁴⁾
67.5 l	45 (99.2) ³⁾	rigid	-	888224	118 / 102 / 121 (260 / 225 / 267) ⁴⁾
	50 (110.2)	rigid	5 ml	888226	123 / 107 / 128 (271 / 236 / 282) ⁴⁾
80 l	53.4 (117.7) ³⁾	rigid	-	888227 ²⁾	120 (265)
	60 (132.3)	rigid	5 ml	888228 ²⁾	127 (280)

³⁾ tropical filling; ⁴⁾ depending on manufacturer

Technical data

Extinguishing agentcarbon dioxide - CO₂
 Odourisationlemon oil
 CO₂ - cylinder valve type K85-20.0-S9see cylinder valve
 Cylinder filledby a qualified filling centre
 Filling reportwith order no. and cylinder no.
 Transportsee safety data sheet
 Temperature range-20 °C to +40 °C (-4 °F to 104 °F)
tropical filling: -20 °C to +50 °C (-4 °F to 122 °F)

Technical data cylinder CO₂ without valve EU (blank):

Cylinder (seamless)acc. to Directive 2010/35/EU (TPED),
for liquefied carbon dioxide
 Protective capDIN EN ISO 1117, large type
 Thread cylinder valveDIN EN ISO 11363-1, 25 E
 protective capDIN EN ISO 1117, W80

Test pressure250 bar (3625 psi)
 FinishRAL3000 - red
 Approval with collective certificate by a notified body in accordance with directive 2010/35/EC.

Caution

Protect the steel cylinders against direct radiation from sun.

Note

Steel cylinders for export come without odorisation.



Extinguishing technology CO₂ HP

Cylinder CO₂ filled

CO₂ - Cylinder EU

Marking

Type label (de/en)

- Extinguishing agent cylinder with dip tube or pilot cylinder
- Extinguishing agent: carbon dioxide or pilot gas: carbon dioxide
- Filling quantity: ... kg
- Order no.: xxxxxx
- Marking number in acc. with GGVs/ADR: UN 1013
- With odorant (if existent)

Additional marking

- Steel cylinder without dip-tube marked with plate item 4 and label item 6

Marking cylinder CO₂ without valve (blank)

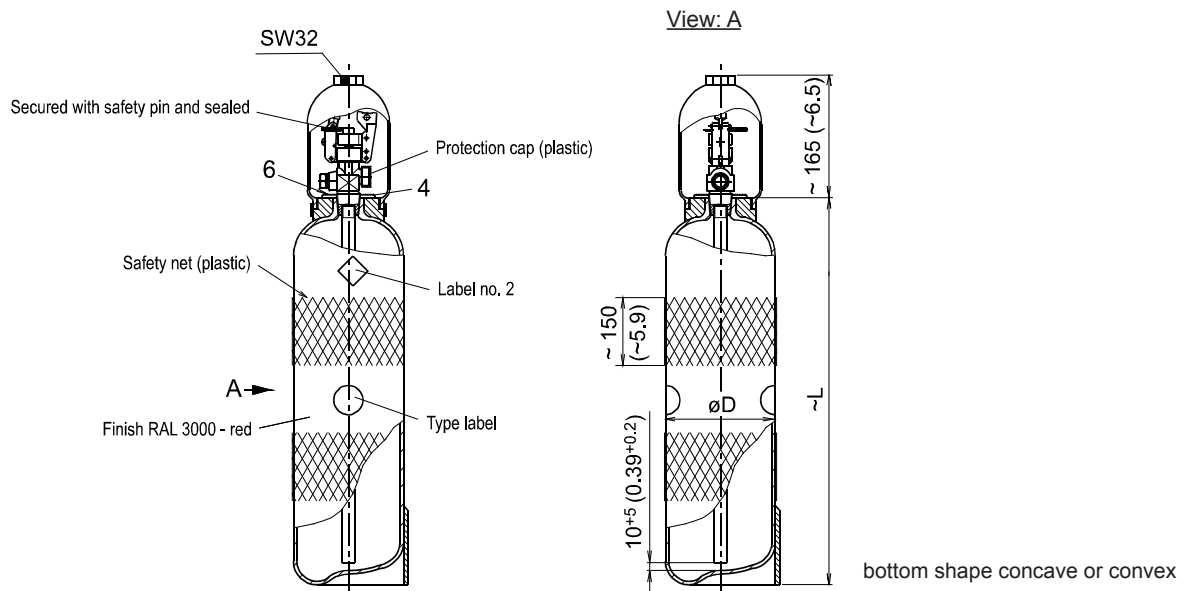
Markingacc. to directives 2008/68/EC and RL 2010/35/EC

Additional marking

- Owner marking, **M**inimax **F**euerschutzMF
- Owner no. (acc. to order)xxxxxx

Dimension drawing

Dimensions in mm (inch)



Nominal volume	øD ±3 (±0.12)	L approx.
5.4 l	140 (5.51)	470 / 480 (18.5 / 18.9) ⁵⁾
10.7 l		880 / 890 (34.7 / 35) ⁵⁾
13.4 l		1075 / 1085 (42.3 / 42.7) ⁵⁾
40 l	204 (8.03)	1505 / 1430 / 1535 (59.3 / 56.3 / 60.4) ⁵⁾
67.5 l	267 (10.51)	1485 / 1420 / 1500 (58.5 / 55.9 / 59.1) ⁵⁾
80 l		1680 (66.1)

⁵⁾ depending on manufacturer



Extinguishing technology CO₂ HP

Cylinder valve CO₂

CO₂ Cylinder valve



Approvals / CE marking



1) Listed system covered by UL-file EX6388 (CO₂) and UL-file EX5248 (Ar).

SAP designation

part no. 829759: Cylinder valve CO₂-TYP K85-20.0-S9

Maintenance

see manual of instruction VTI (Intranet)

Spare parts

Bursting disc securing K1-154.0, part no. 856600

Designation	Part no.	Weight approx.
CO ₂ Cylinder valve type K85-20.0-S9	829759	0.77 kg (1.7 lbs)

Technical data

Extinguishing agentCO₂
 Nominal diameterDN12
 Bursting pressure (bursting disc)250 bar (3625 psi)
 Instant of exposuremax. 8 Nm
at operating pressure 235 bar (3408 psi)
 Valve typetype 2 complies with EN 12094-4
 CE conformityacc. to Construction Products Regulation (EU)
No. 305/2011
 Pi conformityacc. to Directive 2010/35/EU (TPED)

Marking

marking valve body:
 manufacturer sign (VTI), year/month of production (XX/XX),
 CE mark (CE-0786), Pi mark (π-0589),
 type designation (K85-20), VdS, weight (770),
 cylinder thread (E25), working pressure (Pmax. 240 bar),
 nominal diameter (DN12)
 marking bursting cap:
 bursting pressure (250)

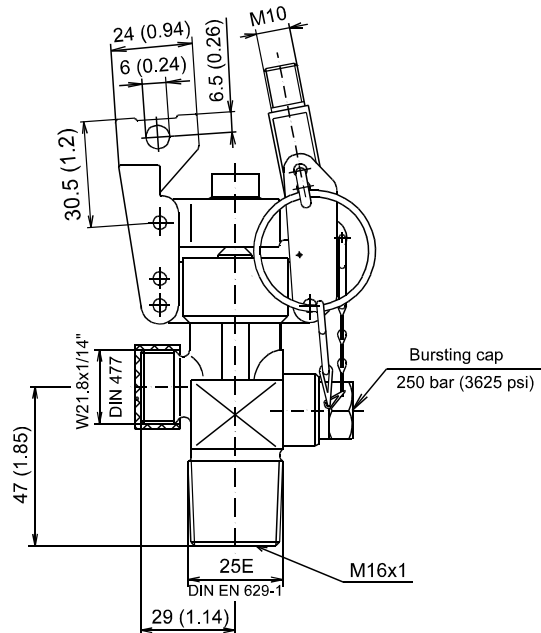
Not included in delivery

Lever - cylinder valve see control device
 Locking nut W21,8 x 1/14"596276
 Dip tube, rigid ²⁾ CO₂ - cylinder254423
 CO₂ - cylinder 80 l.....887848

2) Dip tubes are to be shortened as necessary in acc. to specified dimensions given on see cylinder filled.

Dimension drawing

Dimensions in mm (inch)

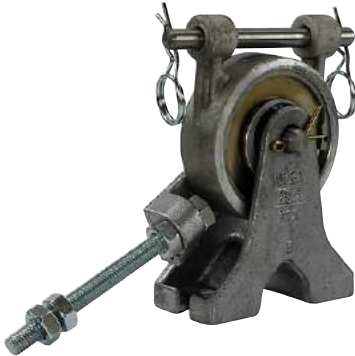




Extinguishing technology CO₂ HP

Ad-on part cylinder CO₂ HP

Weighing device WE4



Approvals / CE marking



G309012



LISTED



0786-CPD-30110

1) Listed system covered by UL-file EX6388 (CO₂) and UL-file EX5248 (Ar).

SAP designation

part no. 888802: Weighing device WE4

Maintenance

see operating instruction weighing device WE4, part no. 888807

Designation	Part no.	Weight
Weighing device WE4	888802	0.94 kg (2.07 lbs)

Technical data

Gross weight of load (cylinder)min. 12,5 kg (27,56 lbs)
max. 225 kg (496 lbs)
 Net weight of load (extinguishing agent) ..min. 3,6 kg (7,94 lbs)
 Temperature range-20 °C bis +50 °C (-4 °F bis 122 °F)
 Weighing devicecomplies with EN 12094-11
 CE conformityacc. to Construction Products Regulation (EU)
No. 305/2011

Material / surface

Suspensionaluminium
 Boltssteel - 1.4104
 Hex. nutssteel, galvanized
 Threaded boltsteel - 4.6 - gal Zn

Application

The weighing device WE4 may only be used in accordance with the “documentation of special extinguishing systems”.
 The weighing device is used in cylinder racks, single cylinder systems and pneumatic release devices and serves to loss indication of pilot control cylinders and extinguishing cylinders.

Note

The usage under outdoor exposure is not allowed, this means, that the weighing device may not be exposed to rain, snow, severe dust exposure or the like.

Functional description

The weighing device must be adjusted by positioning the counter-weight in such a way that the indication is given at a loss of 5 % - 10 % of the extinguishant. For this purpose, the weighing device must be adjusted to a loss of 5 %. In case of extinguishant loss the counter-weight of the weighing device tilts downward and thus indicates the loss directly.
 The loss of extinguishant can also be electrically indicated by using a monitoring.

Not included in delivery

Weights (counter-weight)see ad-on part cylinder
 Support for weighing devicesee mounting accessories
 Support weighing device PAEsee mounting accessories
 Support Argotec223036
 Seal354170
 Seal wire DIN1367-0,5-galvanized175567
 Monitoring losssee monitoring device
 - Monitoring loss extinguishing agent with reed contact limit switch
 - Monitoring loss extinguishing agent with light barrier
 - Monitoring loss pneumatic activation device (PAE)



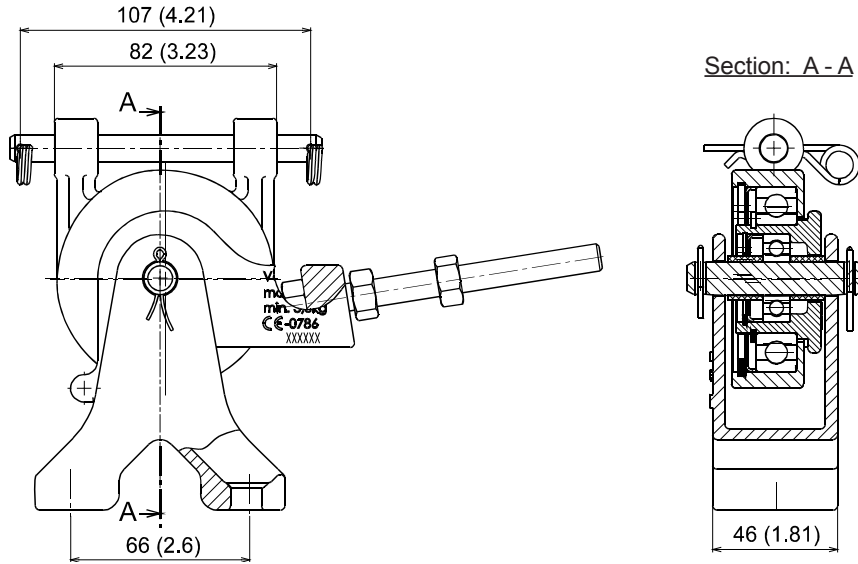
Extinguishing technology CO₂ HP

Ad-on part cylinder CO₂ HP

Weighing device WE4

Dimension drawing

Dimensions in mm (inch)





Extinguishing technology CO₂ HP

Ad-on part cylinder CO₂ HP

Weight weighing device



Approvals

no approval required

SAP designation

e.g. part no. 888806: Weight 0,16 kg weighing device

Maintenance

maintenance-free

Weight weighing device	Part no.	Weighing range in kg (lbs)		
		min.	max.	max. ¹⁾
0.16 kg	888806	12 (26.5)	14 (30.8)	-
0.22 kg	812597	12 (26.5)	14 (30.8)	-
0.3 kg	829528	20 (44.1)	28 (61.7)	-
1.0 kg	887753	57 (125.7)	85 (187.3)	80 (176.3)
1.2 kg	772280	65 (143.3)	95 (209.4)	90 (198.4)
1.6 kg	769548	95 (209.5)	130 (286.6)	110 (242.5)
1.8 kg	885587	105 (231.5)	145 (319.6)	125 (275.5)
1.9 kg	772291	110 (242.6)	155 (341.7)	125 (275.5)
2.3 kg	778372	135 (297.7)	185 (407.8)	140 (308.6)

¹⁾ Weighing range with consideration to a cover

Material / surface

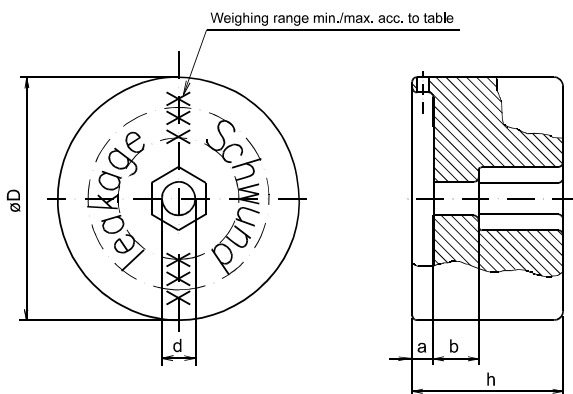
Weights 0.16 up to 0.3 kgbrass
 Weights 1.0 up to 2.3 kg ..cast iron acc. to EN 1561, EN-GJL-200,
powder coated RAL3000 - red

Correct choice of weight

see operating instruction weighing device WE4, part no. 888807

Dimension drawing

Dimensions in mm (inch)



Weight	øD	d	a	b	h
0.16 kg	50 (1.97)	M10	-	10 (0.39)	10 (0.39)
0.22 kg	80 (3.15)		-	5.4 (0.21)	5.4 (0.21)
0.3 kg			-	7.0 (0.28)	8.5 (0.33)
1.0 kg		11 (0.43)	7 (0.28)	15 (0.59)	35 (1.38)
1.2 kg	39 (1.54)				
1.6 kg	50 (1.97)				
1.8 kg	58 (2.28)				
1.9 kg	61 (2.4)				
2.3 kg	72 (2.83)				

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Extinguishing technology CO₂ HP

Ad-on part cylinder CO₂ HP

Support ARGOTEC



Approvals

no approval required

SAP designation

part no. 223036: Support ARGOTEC

Maintenance

Visual check during the maintenance intervals specific to the fire extinguishing system, but at least annually.

Designation	Part no.	Weight
Support ARGOTEC	223036	0.42 kg (0.93 lbs)

Material / surface

Ring cylinder suspensionaluminum casting alloys
EN 1706 AC-43000 KF
 Rod compl. supportbrass / steel, galvanized
 Fork joint DIN71751 A8x16steel, galvanized
 Hex. nut DIN555 M8steel, galvanized

Application

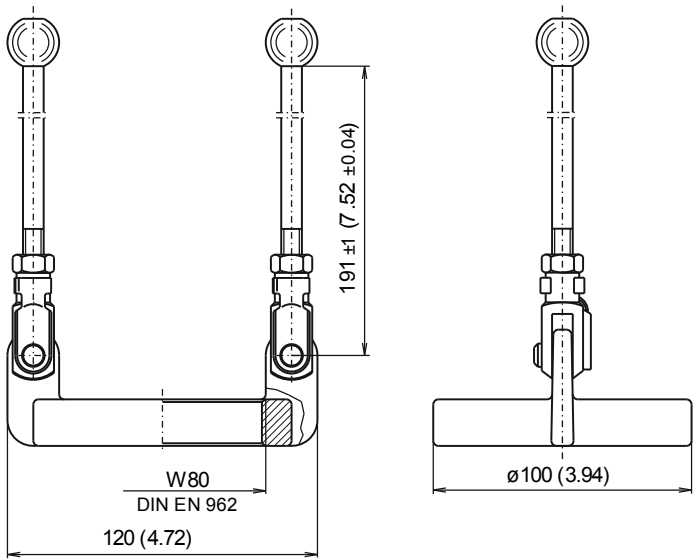
The support ARGOTEC is used in cylinder racks, single cylinder systems and pneumatic release devices mechanical and serves to support of pilot control cylinders and extinguishing cylinders.

Note

The usage under outdoor exposure is not allowed, this means, that the support ARGOTEC may not be exposed to rain, snow, severe dust exposure or the like.

Dimension drawing

Dimensions in mm (inch)



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Inert gas extinguishing technology

Ad-on part cylinder

Hose CO₂ / IG
W21.8 x 3/4 x 375, 235 bar



Approvals / CE marking



G301002



1)



0786-CPD-30113

1) Listed system covered by UL-File EX6388 (CO₂) and UL-File EX5248 (Ar)

SAP designation

part no. 859510: Hose CO₂/AR W21,8x3/4x375

Maintenance

see product information hose part no. 886027

Designation	Part no.	Weight
Hose CO ₂ / IG W21.8 x 3/4 x 375, 235 bar	859510	0.54 kg (1.19 lbs)

Technical data

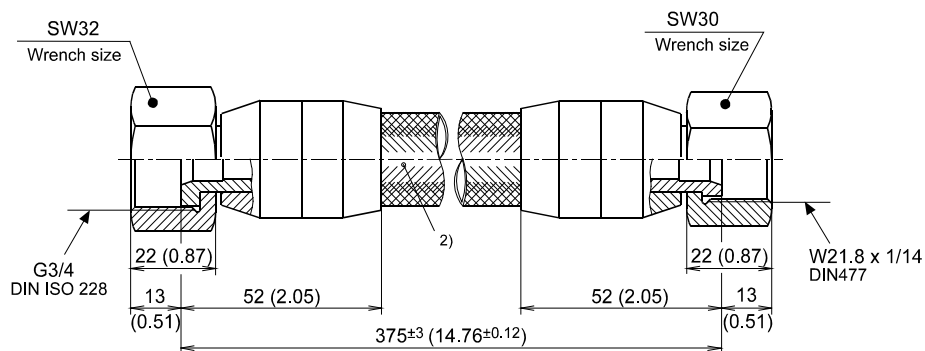
Operating mediumCO₂, argon (IG-01), nitrogen (IG-100)
IG-55, IG-541
 Nominal diameterDN12
 Bending radius≥ 160 mm (6,3")
 Bending anglemax. 90°
 Temperature range- 40 °C to + 50 °C (-40 °F to 122 °F)
 Working pressure235 bar (3408 psi)
 Test pressure353 bar (5120 psi)
 Bursting strengthmin. 705 bar (10225 psi)
 Hose (type 1 connection)complies with EN 12094-8
 CE conformity ...acc. to Construction Products Regulation (EU)
No. 305/2011

Marking on the fitting

type (MX CO₂/Argon/N₂), approval (VdS), CE,
 manufacturer sign, working pressure (Pb 235),
 manufacturing date (month/year)

Dimension drawing

Dimensions in mm (inch)



2) Coating pricked or vulcanized porosity according to the manufacturer's choice.



Extinguishing technology CO₂ HP Manifolds

Manifold 140 bar - M300

Approvals



1) Listed system covered by UL-file EX6388 (CO₂)



SAP designation

e.g. part no. 885301: Manifold CO₂ DN50- 2-M300

Maintenance

see technical description manifold CO₂ DN50-..-M300
part no. 886318

Designation	Part no.	Inlets	Weight kg (lbs)
Manifold 140 bar - M300	DN50 - 2	885301	2 4.9 (10.8)
	DN50 - 3	885302	3 7.3 (16.9)
	DN50 - 4	885304	4 9.8 (21.61)
	DN50 - 5	887726	5 12.3 (27.12)
	DN50 - 6	887727	6 14.8 (32.63)
	DN50 - 7	887728	7 17.3 (38.14)
	DN50 - 8	887711	8 19.8 (43.65)

Technical data

TypeSAR CO₂ DN50-M300
 Operating mediumCO₂, argon, nitrogen, IG-55, IG-541
 Nominal diameter pipeDN50
 check valveDN12
 Working pressure140 bar (2030 psi)
 Test pressure210 bar (3045 psi)
 Temperature range-20 °C to +50 °C (-4 °F to 122 °F)
 Marking after pressure testacc. to MXA 008
 Screw couplinggas tight
 Finish manifoldpowder coated RAL7011 - iron grey
 Thread and check valvewithout colour

Product sheets also applying

Check valve KRV-1see manifold

Application

The manifold 140 bar - M300 may only be used in accordance with system approval in:

- stationary CO₂ high pressure fire extinguishing systems
- argon, nitrogen, IG-55, IG-541 extinguishing systems with ConstantFlow (CF).

They are mounted directly on the cylinder rack to connect every extinguishing agent cylinder with the pipework.

Performance features

The manifolds are manufactured with two to eight inlets. A maximum of 16 inlets can be assembled at random. Each inlet is equipped with a check valve which releases the extinguishing agent in flow direction and prevents the flow in the opposite direction.

Included in delivery

Manifold complete with check valve
 Technical description manifold CO₂ ..-M300 part no. 886318

Not included in delivery

Cap KRV-2see manifold

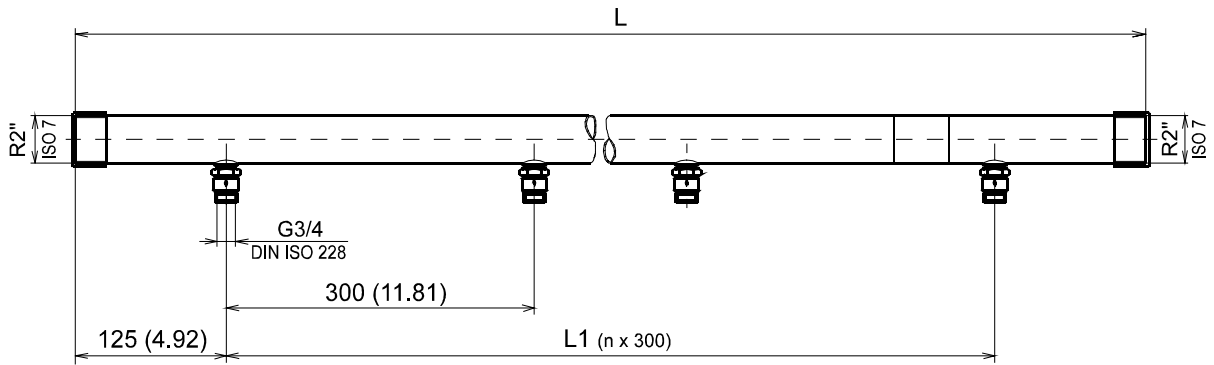


Extinguishing technology CO₂ HP Manifolds

Manifold 140 bar - M300

Dimension drawing

Dimensions in mm (inch)



Features	L	Number of distances n	L ₁ (n x 300)
DN50 - 2	550 (21.65)	1	300 (11.81)
DN50 - 3	850 (33.46)	2	600 (23.62)
DN50 - 4	1150 (45.28)	3	900 (35.43)
DN50 - 5	1450 (57.09)	4	1200 (47.24)
DN50 - 6	1750 (68.9)	5	1500 (59.06)
DN50 - 7	2050 (80.71)	6	1800 (70.87)
DN50 - 8	2350 (92.52)	7	2100 (82.68)



Extinguishing technology CO₂ HP Manifolds

Check valve KRV-1 complete



Approvals / CE marking



1) Listed system covered by UL-File EX6388 (CO₂) and UL-File EX5248 (Ar)

SAP designation

part no. 886310: Check valve KRV-1 compl.

Maintenance

see product information check valve KRV-1
part no. 886309

Designation	Part no.	Weight
Check valve KRV-1 complete	886310	0.31 kg (0.68 lbs)

Technical data

TypeKRV-1
 Operating mediumCO₂, argon, nitrogen, IG-55, IG-541
 Nominal diameterDN12
 freier Strömungsquerschnitt92 mm² (0,14 square inch)
 Working pressure235 bar (3408 psi)
 Test pressure353 bar (5120 psi)
 Pressure to open< 0,1 bar (1,45 psi)
 Leak rate at 20 bar (290 psi)≤ 20 bubbles / 1 min
 Temperature range-20 °C to +50 °C (-4 °F to 122 °F)
 Screwing torquemax. 120 Nm
 Serial numberaccording to MXA08-QW100
 Check valvecomplies with EN 12094-13
 CE conformityacc. to Construction Products Regulation (EU)
No 305/2011

Material / Surface

Housingbrass
 Ballstainless steel
 Sealingthermoplastic

Note

Test certificate EN 10204-2.2 (pressure test) can be ordered separately upon request from QW/OD.

Application

The check valve KRV-1 may only be used in accordance with system approval in stationary CO₂, argon, IG-55, IG-541 and nitrogen fire extinguishing systems.
 It is installed between the valve of the extinguishing agent cylinder and the manifold.

Performance features

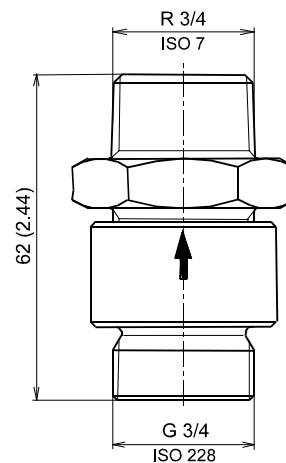
The check valve KRV-1 release the extinguishing agent in flow direction and prevents the flow in the opposite direction.

Included in delivery

- Check valve KRV-1 (without pressure test) part no. 873930
- Pressure test 353 bar (5120 psi)
- Product information check valve KRV-1 part no. 886309

Dimension drawing

Dimensions in mm (inch)



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Extinguishing technology CO₂ HP

Cylinder rack CO₂ components

Cylinder rack CO₂ - slave actuation - M300

Functional description

The mechanism is triggered pneumatically by pressurising a plunger-operated linkage which opens the valves on the CO₂ cylinders. The CO₂ flows through flexible tubes into the manifold and from there into the attached pipework. Every CO₂ cylinder is controlled individually with a weighing device on extinguishing agent loss.

Product sheets also applying

Hose CO₂/Ar/N₂ W21,8x3/4x375, 200 barsee ad-on part cylinder
 Release cylinder MX-BV D55-H106see selector valve accessories
 Weighing device WE4see ad-on part cylinder
 Weight for weighing device 1,6 kgsee ad-on part cylinder
 Manifolds CO₂ M300see manifold
 Lever - cylinder valve CO₂/Arsee control device
 Support for weighing devicesee mounting accessories
 U-bolt DN50M1-16-01

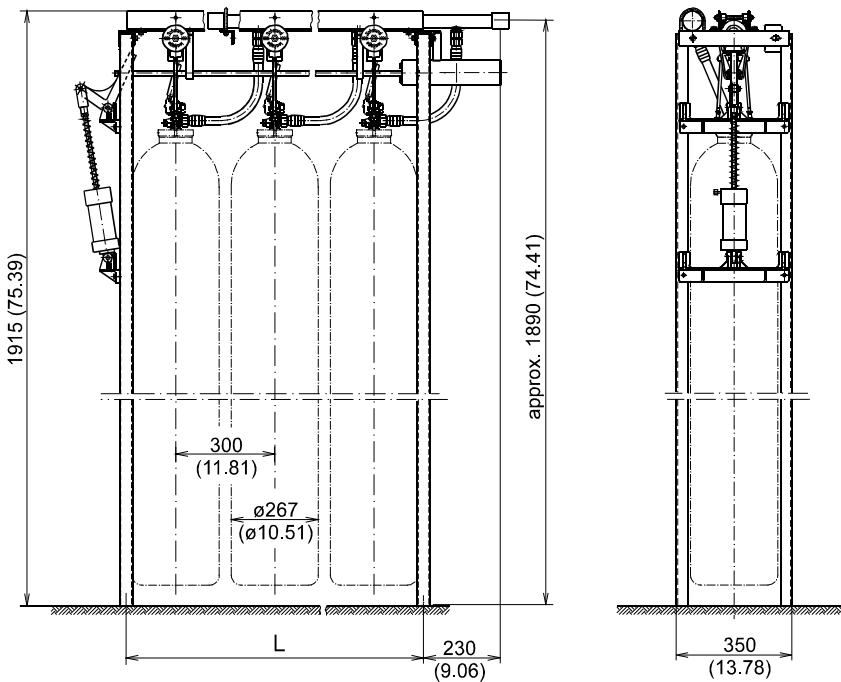
Not included in delivery

Cylinder with valve 67.5 l:

- CO₂ -Cylinder EUsee cylinder filled
- CO₂ - Cylinder UL, EUsee cylinder filled
- CO₂ - Cylinder RUsee cylinder filled
- CO₂ - Cylinder DOT - ULsee cylinder filled
- CO₂ - Cylinder DOTsee cylinder filled
- Cover - M300see cylinder rack mechn.
- CO₂ connection slave releasesee control device
- Monitoring losssee monitoring device
- Monitoring loss extinguishing agent with reed contact limit switch
- Monitoring loss extinguishing agent with light barrier
- Cylinder lifting devicesee system accessories
- Cotter screw M8 x 85 Zn770210, M1-04-04
- Steel strip DIN1016 - 30 x 3 - St37 - Zn757761

Dimension drawing

Dimensions in mm (inch)



Number of cylinder	L
2	600 (23.62)
3	900 (35.43)
4	1200 (47.24)
5	1500 (59.06)
6	1800 (70.87)
7	2100 (82.68)
8	2400 (94.49)
9	2700 (106.3)
10	3000 (118.11)
11	3300 (129.92)
12	3600 (141.73)
13	3900 (153.54)
14	4200 (165.35)
15	4500 (177.17)
16	4800 (188.98)



Extinguishing technology CO₂ HP

Cylinder rack CO₂ components

Cylinder rack CO₂ - master actuation - M300R

Functional description

The activation of the battery CO₂ - master actuation takes place either mechanically, pneumatically or electrically. Through this a interlock in the release box VZ3 is released, whereby the adjusted prewarning time begins to run. After expiration of the pre-warning time the releasemechanics is unlocked and the cylinder valves are opened by a release leverage. The CO₂ flows through flexible hoses into the manifold and from there into the attached pipework. Every CO₂ cylinder is controlled individually by a weighing device on extinguishing agent loss. If required, the release mechanics can be locked using the disable device release box BEA part no. 886013 (not included in delivery).

Not included in delivery

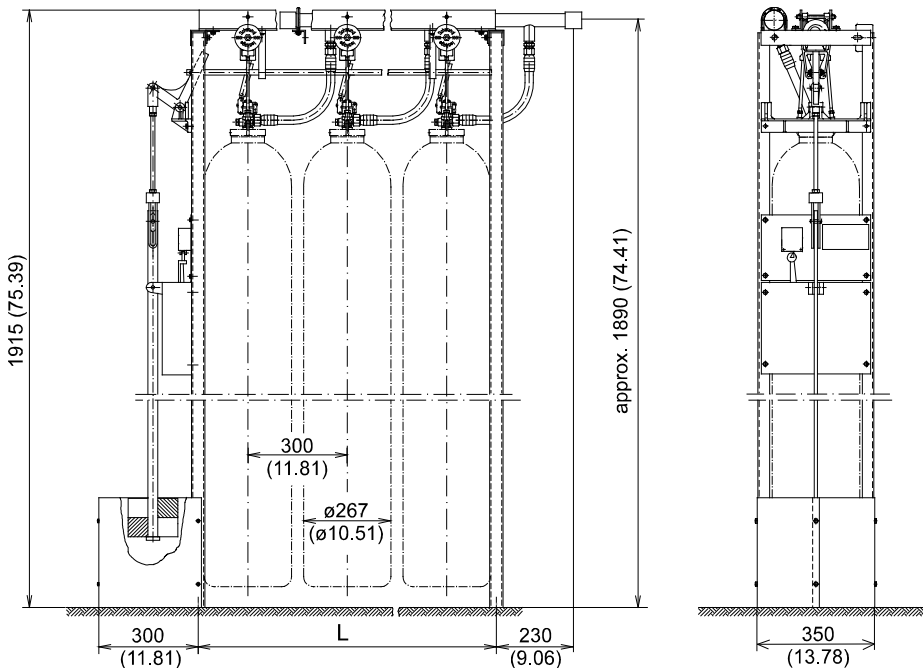
- Cylinder with valve 67.5 l:
- CO₂ -Cylinder EUsee cylinder filled
 - CO₂ - Cylinder DOTsee cylinder filled
 - Report CO₂ - high pressure system (de/en)726052
 - Cover - M300see cylinder rack mechn.
 - Disable device release box BEAsee cylinder rack mechn.
 - Monitoring losssee monitoring device
 - Monitoring loss extinguishing agent with reed contact limit switch
 - Monitoring loss extinguishing agent with light barrier
 - Cylinder lifting devicesee system accessories
 - Cotter screw M8 x 85 Zn770210, M1-04-04
 - Steel strip DIN1016 - 30 x 3 - St37 - Zn757761
 - Temperature switch ÚWA-FMZ4100M2-03-26 part 1

Product sheets also applying

- Hose CO₂/Ar/N₂ W21,8 x 3/4 x 375, 200 barsee ad-on part cylinder
- Weighing device WE4see ad-on part cylinder
- Weight for weighing device 1,6 kgsee ad-on part cylinder
- Manifolds CO₂ M300see manifold
- Release box type VZ3-R 24 Vsee cylinder rack mechn.
- Lever - cylinder valve CO₂/Arsee control device
- Limit switch type UK 432y U=180see monitoring device
- Support for weighing devicesee mounting accessories
- Earthing clamp 2"M1-09-01
- U-bolt DN50M1-16-01

Dimension drawing

Dimensions in mm (inch)



Number of cylinder	L
2	600 (23.62)
3	900 (35.43)
4	1200 (47.24)
5	1500 (59.06)
6	1800 (70.87)
7	2100 (82.68)
8	2400 (94.49)
9	2700 (106.3)
10	3000 (118.11)
11	3300 (129.92)
12	3600 (141.73)
13	3900 (153.54)
14	4200 (165.35)
15	4500 (177.17)
16	4800 (188.98)

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Extinguishing technology CO₂ HP

Cylinder rack CO₂ components

Accessories cable duct for cylinder banks

Approvals

no approval required



SAP designation

part no. 815355: Accessories cable duct cylinder banks

Maintenance

maintenance-free

Designation	Part no.	Weight
Accessories cable duct for cylinder banks	815355	0.07 kg (0.15 lbs)

Application

For laying electr. cables in cable ducts at cylinder banks.

Not included in delivery

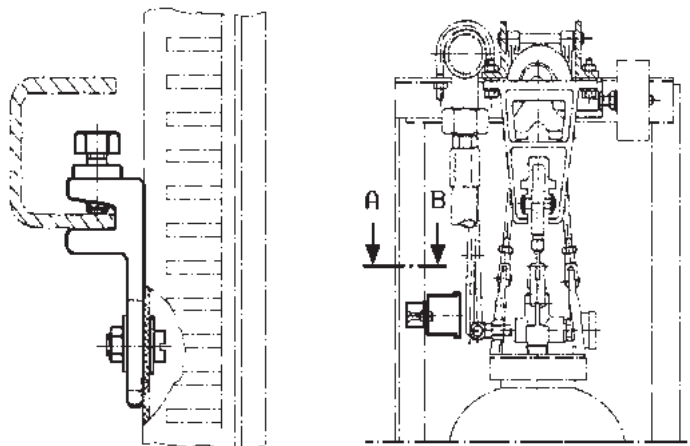
Cable duct BA6 H 40 x B 40140187

Included in delivery

Hex. screw DIN933 - M8x20 galv.	106058
Support for cable duct	815367
Cheese-head screw DIN84 - M5x16 brass	106885
Washer DIN9021 - B5,3 galv.	109990
Hex. nut DIN934 - M5 galv.	108420
Label "Minimax"	790540

Installations example

Section: A - B

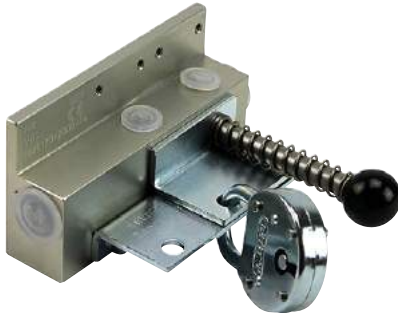




Extinguishing technology CO₂ HP

Cylinder rack CO₂ components

Disable device release box BEA



Approvals / CE marking



G302024



0786-CPD-30006

SAP designation

part no. 886013: Disable device release box BEA

Maintenance

see product information disable device release box BEA
part no. 886012

Designation	Part no.	Weight
Disable device release box BEA	886013	0.55 kg (1.21 lbs)

Technical data

Temperature range-20 °C to +50 °C (-4 °F to 122 °F)
 Material housingaluminium
 blocking pinstainless steel
 Locksee M1-01-07
 Vibrationaccording to EN 12094-6 for wall installation
 Disable device release boxcomplies with EN 12094-6
 CE conformityacc. to Construction Products Regulation (EU)
No. 305/2011

Marking

manufacturer (MX), type (BEA), approval sign (VdS), CE, serial number

Application

The disable device release box may only be used according to the “documentation of special extinguishing systems” of CO₂, argon and nitrogen fire extinguishing systems. According to EN 12094-6 it is defined as a non electrical disable device to lock Argotec® cylinder banks. It prevents the extinguishing agent to be released. For repair or maintenance work in the protected area, when the system can be activated unintentionally or people can not leave the area within the pre - warning time, the extinguishing system must be blocked.

Functional description

The blocking pin is moved from the operation position to the isolation position through pushing the handle bar to the left side. The blocking pin rise now above the weight lever of the release box. It prevents the weight lever from tipping over when the extinguishing system is activated. The extinguishing agent cylinders will not open automatically when the release box is blocked with the disable device. The disable device release box must be locked in the operation and in the isolation position with the lock. Only a authorize person from the customer is allowed to actuate the disable device or instruct someone to do this.

Included in delivery

Disable device release box BEA compl. with lock and fastening material
 Product information disable device release box BEA
 part no. 886012

Not included in delivery

The following must be ordered separately for monitoring of each position (operation / isolation):
 Limit switch system monitoring I88-SU1Zw763261
 2 x Cheese-head screw DIN84-M4x25 brass106745
 2 x Washer DIN125-B 4,3 brass109734



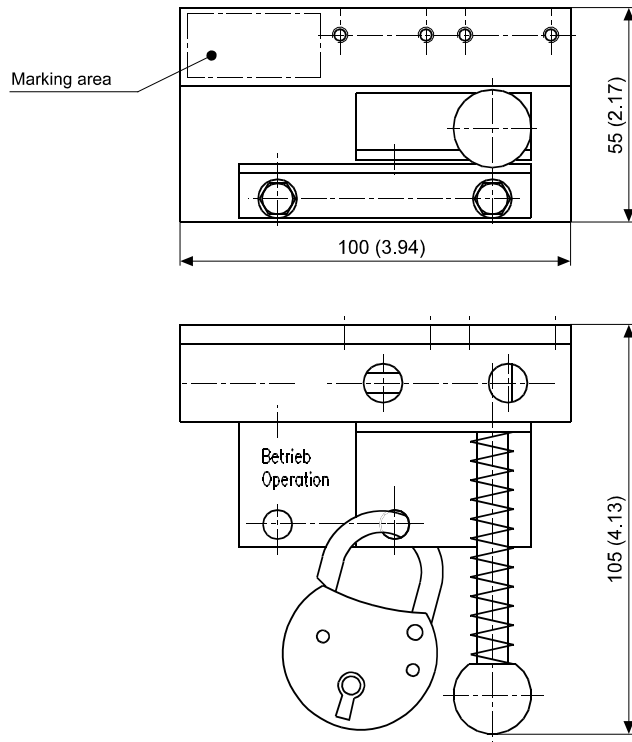
Extinguishing technology CO₂ HP

Cylinder rack CO₂ components

Disable device release box BEA

Dimension drawing

Dimensions in mm (inch)





Extinguishing technology CO₂ LP

Selector valve CO₂ LP accessories

Odorizing device MX 1/2 - 3000



Approvals



- 1) Part of the system approval:
 - CO₂ extinguishing system ND-1 (S398012), electrical release
 - CO₂ extinguishing system ND-2 (S398013), non-electrical release

SAP designation

part no. 820471: Odorizing device MX 1/2-3000

Maintenance

see product information odorizing device part no. 820537

Designation	Part no.	Weight
Odorizing device MX 1/2 - 3000	820471	0.28 kg (0.6 lbs)

Technical data

MediumCO₂, argon, nitrogen
 Temperature range-20 °C to +50 °C (-4 °F to +122 °F)
 Materialbrass
 Odor concentrateisopropanol and lemon oil (1:1)
 Filling quantity10 ±0,5 cm³
 Reaction pressure3 bar (43,5 psi) ±10 %
 Working pressure60 bar (870 psi)
 Test pressure90 bar (1305 psi)
 Odorizing devicefor 1000 kg / extinguishing agent max.
 Installation positionaccording to product information

Note

other odor concentrate for example wintergreen upon request

Application

The odorizing device MX1/2-3000 admixes concentrated odor fluid at stationary argon, nitrogen and CO₂ fire extinguishing systems.

Functional description

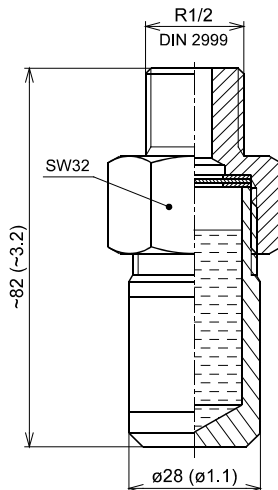
On discharge of argon, nitrogen and CO₂ the bursting disk will be destroyed and odor is added continuously to the flowing gas. Thus it is possible to smell the normal odorless gas.

Included in delivery

Odorizing device MX 1/2 - 3000
 Product information odorizing device part no. 820537

Dimension drawing

Dimensions in mm (inch)





Inert gas extinguishing technology

Nozzle

Nozzle RD 1/2 and 3/4



Approvals / CE marking



G392002



LISTED



0786-CPD-30001

¹⁾ Listed system covered by UL-File EX5248 (Ar).
For CO₂ - fire extinguishing systems used nozzle RD with UL-Code, see nozzle.

SAP designation

e.g. part no. 186004: Nozzle RD1/2x 3,0

Maintenance

see product information nozzle RD1/2 and RD3/4
part no. 886279

Nozzle RD	Part no.	A imaginary [mm ²]	Weight
1/2 x 3.0	186004	5	0.07 kg (0.15 lbs)
1/2 x 3.7	186028	8	
1/2 x 4.6	186041	12.5	
1/2 x 5.2	186053	16	
1/2 x 6.6	186077	25	
1/2 x 7.4	186089	31.5	
1/2 x 8.3	186107	40	
1/2 x 9.2	186090	50	
1/2 x 9.8	594840	57	
1/2 x 10.3	186119	63	
1/2 x 10.9	594838	70	
1/2 x 11.5	186120	80	
1/2 x 12.0	594826	87	
1/2 x 12.7	594814	100	0.10 kg (0.22 lbs)
3/4 x 13.7	252621	110	
3/4 x 14.6	186170	125	
3/4 x 15.4	252633	140	
3/4 x 16.4	186181	160	
3/4 x 17.2	252645	180	
3/4 x 17.9	186193	200	

Technical data

TypeRD 1/2, RD 3/4
 Operating mediumCO₂, argon (IG-01), nitrogen (IG-100),
IG-55, IG-541
 Connection threadaccording to EN 10226
 Working pressure ..min. 10 bar (145 psi), max. 60 (870 psi) bar
 Temperature range-20 °C to +50 °C (-4 °F to 122 °F)
 Nozzle bodybrass

Application

The nozzles RD may only be used in as room protection nozzles in stationary CO₂, argon, nitrogen, IG-55 and IG-541 fire extinguishing systems.
 The nozzles distribute the extinguishing agent evenly in the extinguishing zone in the calculated flooding time.

Marking

manufacturer (SFH), type (RD), bore diameter d (X,X),
 approval sign (VdS), CE, serial number

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 1/2



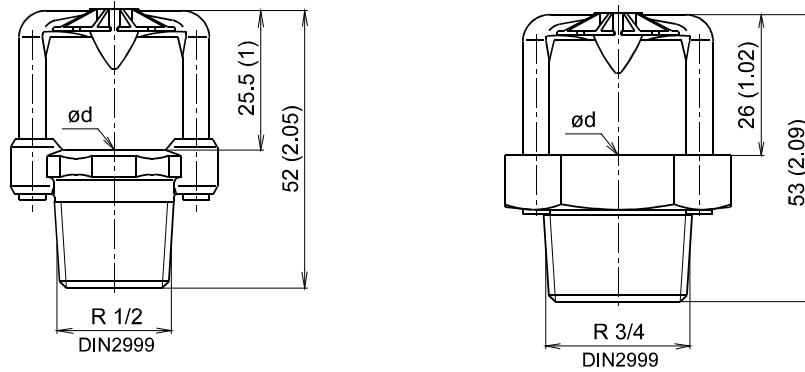
Inert gas extinguishing technology

Nozzle

Nozzle RD 1/2 and 3/4

Dimension drawing

Dimensions in mm (inch)



Nozzle RD	ød
1/2 x 3.0	3.0 (0.12)
1/2 x 3.7	3.7 (0.15)
1/2 x 4.6	4.6 (0.18)
1/2 x 5.2	5.2 (0.2)
1/2 x 6.6	6.6 (0.26)
1/2 x 7.4	7.4 (0.29)
1/2 x 8.3	8.3 (0.33)
1/2 x 9.2	9.2 (0.36)
1/2 x 9.8	9.8 (0.39)
1/2 x 10.3	10.3 (0.41)
1/2 x 10.9	10.9 (0.43)
1/2 x 11.5	11.5 (0.45)
1/2 x 12.0	12.0 (0.47)
1/2 x 12.7	12.7 (0.5)
3/4 x 13.7	13.7 (0.54)
3/4 x 14.6	14.6 (0.57)
3/4 x 15.4	15.4 (0.61)
3/4 x 16.4	16.4 (0.65)
3/4 x 17.2	17.2 (0.68)
3/4 x 17.9	17.9 (0.7)



Extinguishing technology CO₂ HP

Control device CO₂ HP components

Pneumatic release device PAE - CO₂ electrical without protective cover



Fastening material not shown

Approvals



- 1) Part of the system approval:
- CO₂ extinguishing system HD-1 (S398010)
 - Oxeo inert gas extinguishing system HD200 (S315011) / HD300 (S315010)
 - Oxeo inert gas extinguishing system with ConstantFlow HD200 (S315012)
 - Oxeo inert gas extinguishing system with ConstantFlow HD300 (S315013)
 - VSN 1230 (S314012) / VSN 200 (S313007)
- 2) Listed system covered by:
- UL-File EX6388 (CO₂) and UL-File EX26532 (Ar, VSN 200 and VSN 1230)

SAP designation

e.g. part no. 885334: PAE-CO₂-EM-4kg

Maintenance

see operating instruction PAE-CO₂ part no. 885374

Designation	Part no.	Weight approx.
Pneumatic release device PAE - CO ₂ electrical without protective cover	4 kg	885334
	8 kg	885338

Technical data

Operating mediumCO₂ - gaseous
 Working pressure 140 bar (2030 psi)
 Test pressure210 bar (3045 psi)
 Amount filled4 kg (8.82 lbs) or 8 kg (17.64 lbs)
 Pilot cylinder volume5.4 l or 10.7 l
 Thread connectionfor precision steel pipe 6x1

Product sheets also applying

Cylinder with valve 5.4 l / 10.7 l:

- CO₂ - Cylinder EUsee cylinder filled
 Weighing device WE4see ad-on part cylinder
 Weight for weighing device 0.16 kg / 0.3 kgsee ad-on part cylinder
 Release device EM 24 V DCsee control device
 Lever - cylinder valve EM releasesee control device

Application

The release device PAE electrical must only be used in accordance with system approval in stationary carbon dioxide, argon, nitrogen, VSN 200 and VSN 1230 fire extinguishing systems. The release device PAE provides all pneumatic system parts with carbon dioxide (CO₂) as work medium and is used to activate:

- Cylinder batteries
- Selector valves
- Pneumatic control elements and alarm components (makrofon)
- Pneumatic door closing devices
- Pneumatic pressure relief dampers.

Functional description

The activation of the release device PAE occurs electrically (release device EM). Thus the toggle valve on the pilot cylinder is opened and the carbon dioxide (CO₂) flows through the connected pipe assembly respectively the hose to the pneumatic system components of the fire extinguishing system. Depending on the version a 5.4 l (1.43 US.liq.gal) or 10.7 l (2.83 US.liq.gal) pilot cylinder is used. The entire release device PAE is fastened onto a bearing structural element via a U-profile.

Note

Each PAE has to be installed complete with protective cover only. Exception: If an additional protecting guard is provided (for example enclosure).

Included in delivery

PAE - CO₂ EM 4 kg885334
 8 kg885338
 Operating instruction PAE-CO₂ part no. 885374
 as well as fastenings

Not included in delivery

Pre-assembled connection pipesee operating instruction PAE
 Support weighing device PAE886350, see mounting accessories
 Reset tool885530, see control device
 Monitoring loss pneum. actuation device ...888998, see monitoring device
 Monitoring for release device EM885740, see monitoring device



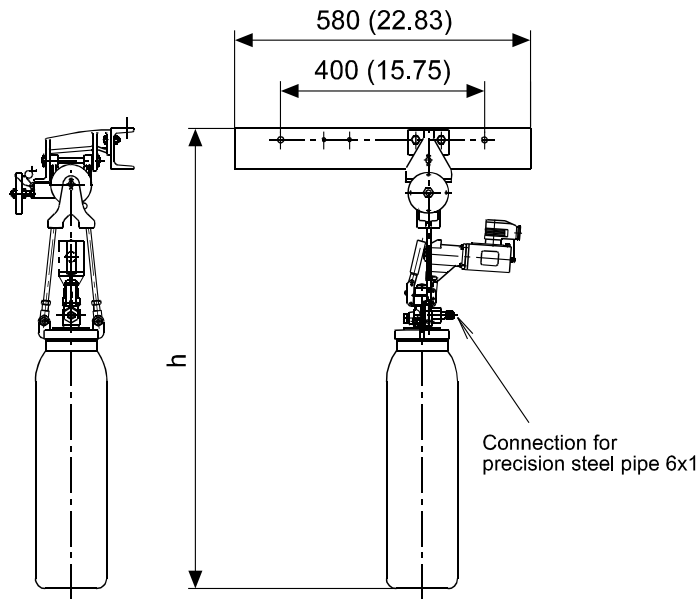
Extinguishing technology CO₂ HP

Control device CO₂ HP components

Pneumatic release device PAE - CO₂ electrical without protective cover

Dimension drawing

Dimensions in mm (inch)



PAE	h approx.
4 kg	925 (36.4)
8 kg	1335 (52.6)



Extinguishing technology CO₂ HP

Control device CO₂ HP components

Lever - cylinder valve

Approvals

no approval required



SAP designation

e.g. part no. 885973: Lever cylinder valve CO₂/Ar

Maintenance

maintenance-free

Style	Designation	Part no.	Application	Weight
1	Lever Cylinder valve CO ₂ /Ar	885973	Cylinder bank	0.03 kg (0.07 lbs)
2	Lever SB-CO ₂ -cylinder valve	750249	Shipbuilding	0.17 kg (0.37 lbs)
3	Lever 1cyl.-CO ₂ -cylinder valve	779509 ¹⁾	CO ₂ / Ar - System 1 cylinder, release device FM	0.29 kg (0.64 lbs)

Technical data

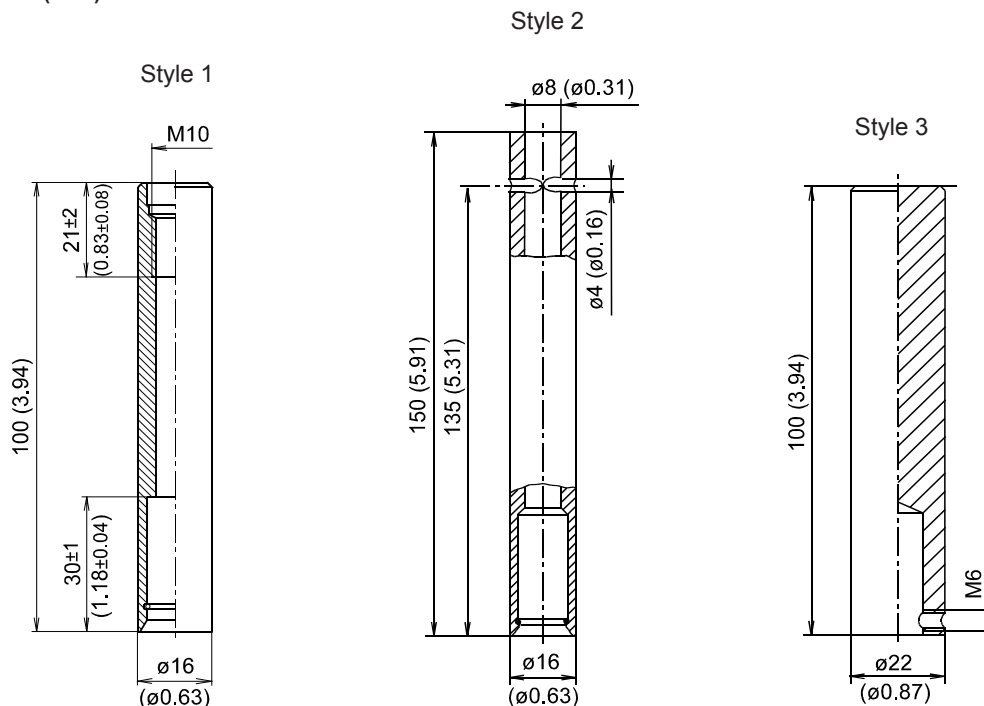
Material style 1aluminium
 style 2 and 3brass

¹⁾ Not included in delivery

Threaded rod M6 x 8729697

Dimension drawing

Dimensions in mm (inch)



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Inert gas extinguishing technology

Monitoring device

Limit switch pneum. operated



Approvals



- 1) Part of the system approval:
 - Oxeo inert gas extinguishing system HD200 (S315011) / HD300 (S315010)
 - Oxeo inert gas extinguishing system with ConstantFlow HD200 (S315012)
 - Oxeo inert gas extinguishing system with ConstantFlow HD300 (S315013)
 - Oxeo inert gas exting. system with ConstantFlow HD300-LCP (S316006)
 - CO₂ extinguishing system HD-1 (S398010) / HD-2 (S398011)
 - CO₂ extinguishing system ND-1 (S398012), electrical release
 - CO₂ extinguishing system ND-2 (S398013), non-electrical release
 - Oxeo Nitrogen low pressure extinguishing system (S310016)
- 2) Listed system covered by UL-File EX26532 (Ar, VSN 200 and VSN 1230)
- 3) Part of the system approval (VSN 200 and VSN 1230)

SAP designation

part no. 826758: Limit switch pneum. operated

Maintenance

Functional check during the maintenance intervals specific to the fire extinguishing system, but at least annually.

Designation	Part no.	Weight
Limit switch pneum. operated	826758	1.5 kg (3.31 lbs)

Application

The limit switch pneum. operated may only be used in accordance with system approval in stationary CO₂, argon and nitrogen fire extinguishing systems.

Function description

In case of fire the selector valve is released and the extinguishing line is flooded. The presence of pressure actuates the cylinder, which in turn opens or closes the floating contacts of the limit switch depending on how the contacts are set (make or break).

Product sheets also applying

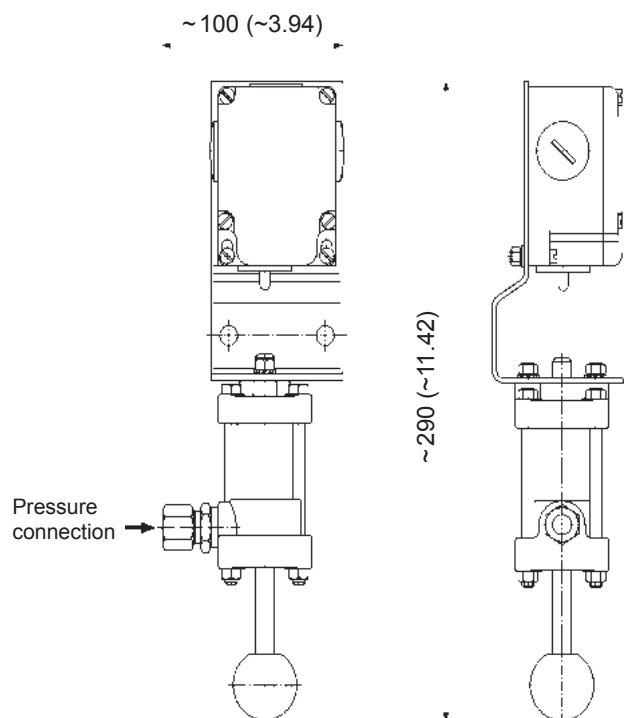
Cylinder ø25 x H30see control device
 Limit switch US 432ysee monitoring device

Included in delivery

Cylinder ø25 x H30227303, see control device
 Limit switch type US 432y724420, see monitoring device
 Support limit switch pneum. activated827866
Union GE 6-PSR-EDA3C125578, M1-11-01
 2x Cheese-head screw DIN84-M5x25-Ms106915
 2x Hex. nut DIN934-M5-Ms108444
 2x Washer DIN125-B-5,3-Ms109771
 Technical description limit switch pneumatic827740
 as well as fastening material

Dimension drawing

Dimensions in mm (inch)





Extinguishing technology CO₂ HP

Monitoring device CO₂

Monitoring loss extinguishing agent with light barrier

Approvals

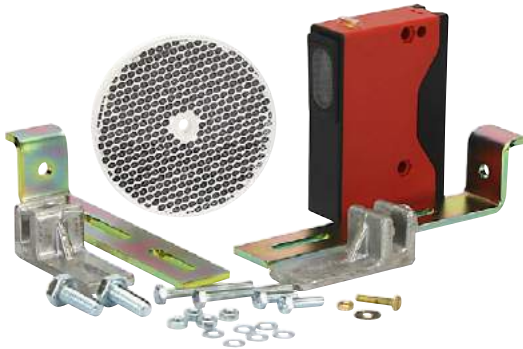
no approval required

SAP designation

part no. 876530: Monitoring loss ext.agent light barrier

Maintenance

see product information UEWA HP system loss of agent with light barrier part no. 876553



Designation	Part no.	Weight
Monitoring loss extinguishing agent with light barrier	876530	0.56 kg (1.23 lbs)

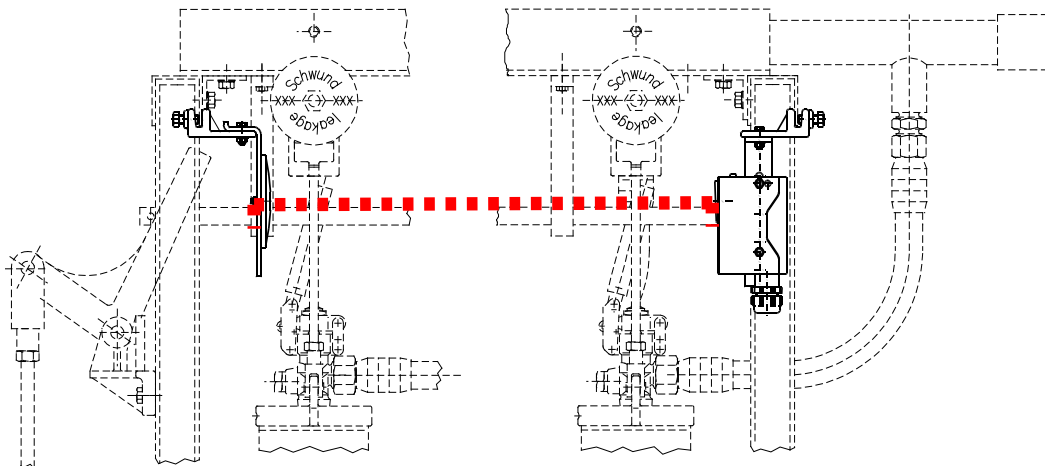
Application

The UEWA high pressure system loss unit with light barrier facilitates monitoring of permitted loss (10% of extinguishing agent supply per high pressure cylinder). When a fault message is given (permissible loss exceeded) the beam weight drops and the reflected beam of light is broken. The fault message is sent to the monitoring control panel. Local indication of the fault is by LED. Preferably with cylinder quantity > 3 pieces.

Included in delivery

Light barrier for monitoring loss876541, siehe Überwachungselement
 2x bracket for light barrier876371
 2x bracket for cable duct cylinder bank815367
 Product information UEWA HP system loss of agent with light barrier876553
 as well as screws, nuts and washers

Mounting example



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Extinguishing technology CO₂ HP

Monitoring device CO₂

Limit switch system monitoring / I88-SU1Zw



Approvals



1) Listed system covered by UL-File EX5248 (Ar, MX 200 and MX 1230)

2) Part of the system approval (MX 200 and MX 1230)

SAP designation

part no. 763261: Limit switch system monitor./I88-SU1Zw

Maintenance

functional check within the framework of system-specific functional test

Designation	Part no.	Weight
Limit switch system monitoring / I88-SU1Zw	763261	0.06 kg (0.13 lbs)

Technical data

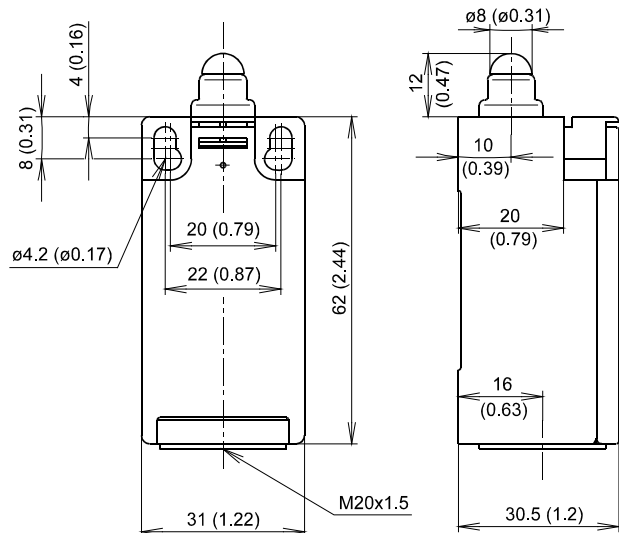
TypeI88-SU1Zw
 Housing, coverthermopl. glass fiber concentrated
 Actuationtappet (thermoplastic)
 IP codeIP65
 Contacts1 NC, 1 NO
 Ambient temperature-30 °C to +80 °C (-22 °F to 176 °F)
 Rated insulation voltage U_i250 V / AC
 Continuous current I_{the}max. 10 A
 Switch-on currentin acc. with IEC 60947-5-1, AC 15, A300
 Utilization categoryAC 15, A300, Ue / Ie 240 V / 3 A
 Assemblyin acc. with EN 60947-1, EN 60947-5-1
 Short-circuit protectionblowout fuse 2 A gl/gG

Application

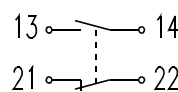
Disable device release box BEA

Dimension drawing

Dimensions in mm (inch)



Circuit diagram





Inert gas extinguishing technology

System accessories

Cylinder lifting device

Approvals

no approval required



SAP designation

part no. 578022: Cylinder lifting device

Maintenance

maintenance-free

Designation	Part no.	Weight
Cylinder lifting device	578022	1.0 kg (2.2 lbs)

Technical data

Lift without extension approx. 70 mm (2.76")
 with extension approx. 120 mm (4.72")
 Material aluminium

Not included in delivery

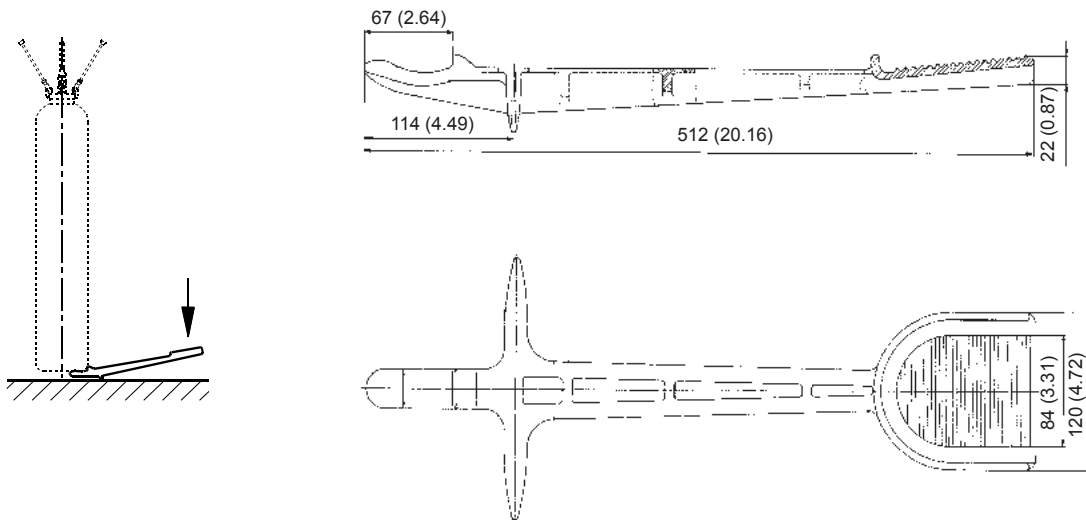
Extension cylinder lifting device 886288, see system accessories

Application

Assembly tool for assembly and disassembly of steel cylinders in cylinder racks.

Dimension drawing

Dimensions in mm (inch)



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Inert gas extinguishing technology

System accessories

Extension cylinder lifting device

Approvals

no approval required



SAP designation

part no. 886288: Extension cylinder lifting device

Maintenance

maintenance-free

Designation	Part no.	Weight
Extension cylinder lifting device	886288	0.8 kg (1.8 lbs)

Technical data

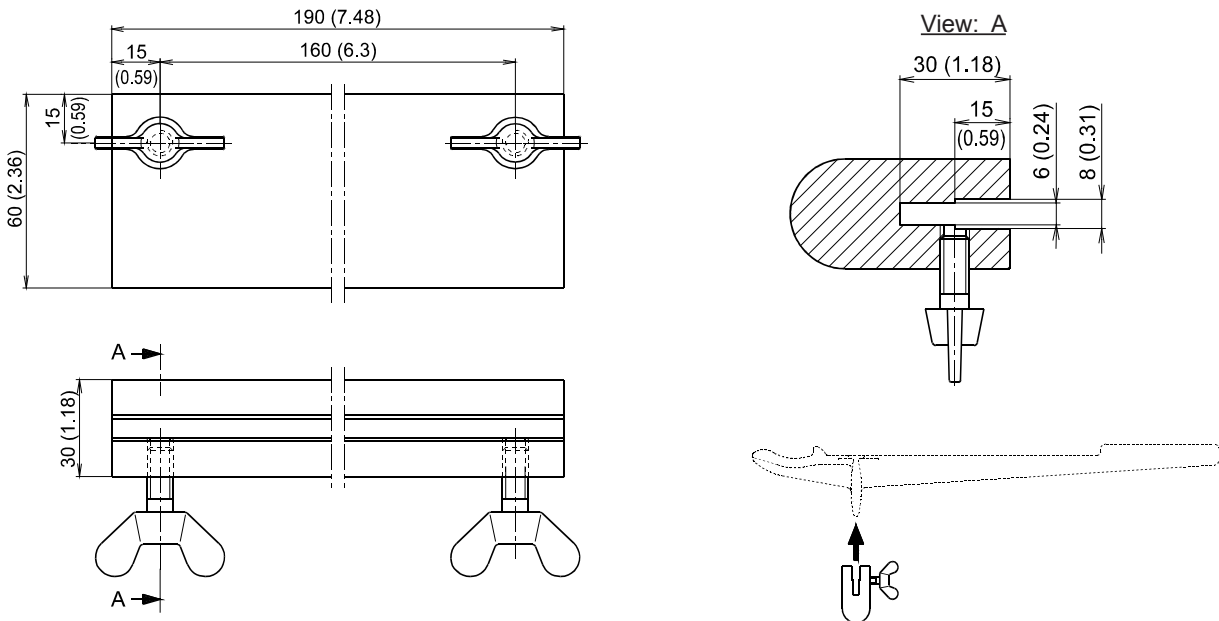
Materialaluminium

Included in delivery

Extension cylinder lifting device complete with wing nuts
DIN 316 - M8x20

Dimension drawing

Dimensions in mm (inch)



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Extinguishing technology CO₂ HP

System accessories CO₂

Label for CO₂ protected area - PVC

Approvals
no approval required



SAP designation
part no. 858300: Label f.CO₂-gesch.Raum-PVC

Maintenance
maintenance-free

Designation	Part no.	Weight
Label für CO ₂ - geschützten Raum - PVC	858300	0.02 kg (0.04 lbs)
Label für CO ₂ protected area - PVC	886613	

Technical data

MaterialPVC self adhesive 0.2 mm (0.01") thickness
 GroundRAL1004 - yellow
 PictureRAL9011 - black
 SscriptRAL9011 - black
 Script typemodern times-onamental type,
medium faced DIN30640 part 2
 Script height8 mm (0.315")
 MarginRAL9011 - black

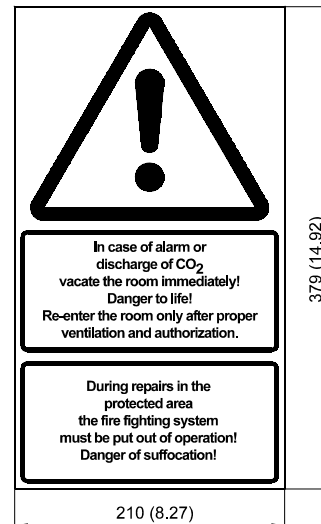
Temperature range-20 °C to +80 °C (-4 °F to 176 °F)
 Gluepermanent, sticking firmly
 Storage of glue layermin. 3 years
 Finishbrilliant
 For glass, plastic structured cast metal, and varnished surfaces.

Dimension drawing

Dimensions in mm (inch)

Label for CO₂ geschützten Raum - PVC

Label for CO₂ protected area - PVC





Extinguishing technology CO₂ HP

System accessories CO₂

Labels - CO₂- Alu Carbon Dioxide

Approvals

no approval required



SAP designation

e.g. part no. 886486: Sign "Carbon Dioxide ... vacate immediately"

Maintenance

maintenance-free

Designation	Part no.	Text	Weight
Cabone Dioxide ... vacate immediately	886486	WARNING - CARBON DIOXIDE GAS - WHEN ALARM OPERATES VACATE IMMEDIATELY.	0.8 kg (0.18 lbs)
Cabone Dioxide ... until ventilated	886487	WARNING - CARBON DIOXIDE GAS - WHEN ALARM OPERATES DO NOT ENTER UNTIL VENTILATED.	
Cabone Dioxide ... vacate immediately	886488	CAUTION CARBON DIOXIDE DISCHARGE INTO A NEARBY SPACE MAY COLLECT HERE. WHEN ALARM OPERATES VACATE IMMEDIATELY.	

Technical data

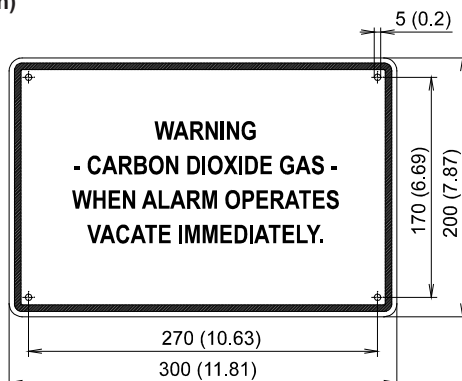
Materialaluminium plate 0.5 mm (0.02") thickness
 GroundRAL1004 - yellow
 ScriptRAL9011 - black
 Script typeornamental type, faced DIN1451
 Script height16 mm (0.63")
 MarginRAL9011 - black

Not included in delivery

Fastening material

Dimension drawing

Dimensions in mm (inch)



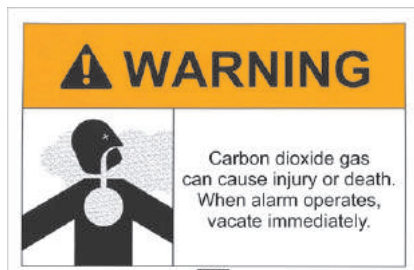
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Extinguishing technology CO₂ HP

System accessories CO₂

Label NFPA 12



Approvals

no approval required

SAP designation

e.g. part no. 887803: Label NFPA 12 Every protected space - PVC

Maintenance

maintenance-free

Designation	Material	Part no.	Text	Weight kg (lbs)
Label NFPA 12 "Every protected space"	PVC	887803	Carbon dioxide gas can cause injury or death. When alarm operates, vacate immediately.	0.08 (0.18)
	Alu	887810		0.13 (0.29)
	XCrNi	887817		0.38 (0.84)
Label NFPA 12 "Every entrance"	PVC	887805	Carbon dioxide gas can cause injury or death. When alarm operates, do not enter until ventilated.	0.08 (0.18)
	Alu	887811		0.13 (0.29)
	XCrNi	887818		0.38 (0.84)
Label NFPA 12 "Every entrance wintergreen"	PVC	887806	Carbon dioxide gas can cause injury or death. When alarm operates or wintergreen scent is detected, do not enter until ventilated.	0.08 (0.18)
	Alu	887812		0.13 (0.29)
	XCrNi	887819		0.38 (0.84)
Label NFPA 12 "Every nearby space"	PVC	887807	Carbon dioxide gas discharge into nearby space can collect here. When alarm operates, vacate immediately. Carbon dioxide gas can cause injury or death.	0.08 (0.18)
	Alu	887813		0.13 (0.29)
	XCrNi	887820		0.38 (0.84)
Label NFPA 12 "Outside each entrance"	PVC	887808	Carbon dioxide gas can cause injury or death. Ventilate the area before entering. A high carbon dioxide gas concentration can occur in this area and can cause suffocation.	0.08 (0.18)
	Alu	887814		0.13 (0.29)
	XCrNi	887821		0.38 (0.84)
Each manual actuation station	PVC	887809	Carbon dioxide gas can cause injury or death. Actuation of this device causes carbon dioxide to discharge. Before actuating, be sure personnel are clear of the area.	0.08 (0.18)
	Alu	887815		0.13 (0.29)
	XCrNi	887822		0.38 (0.84)

Technical data

Material PVCPVC self adhesive 0,2 mm (0,008") thickness
 Alualuminium plate 1 mm (0,04") thickness
 XCrNi ...stainless steel (1.4571) 1 mm (0,04") thickness
 GroundRAL9003 - white
 Script / linesRAL9004 - black
 Script typeHelvetica semi-bold

Style PVC self adhesive:

Temperature range-20 °C to +80 °C (-4 °F to 176 °F)
 Gluepermanent, sticking firmly
 Storage of glue layer.....min. 3 years
 For glass, plastic structured cast metal, and varnished surfaces.

Not included in delivery

Label Alu / XCrNi: fastening material



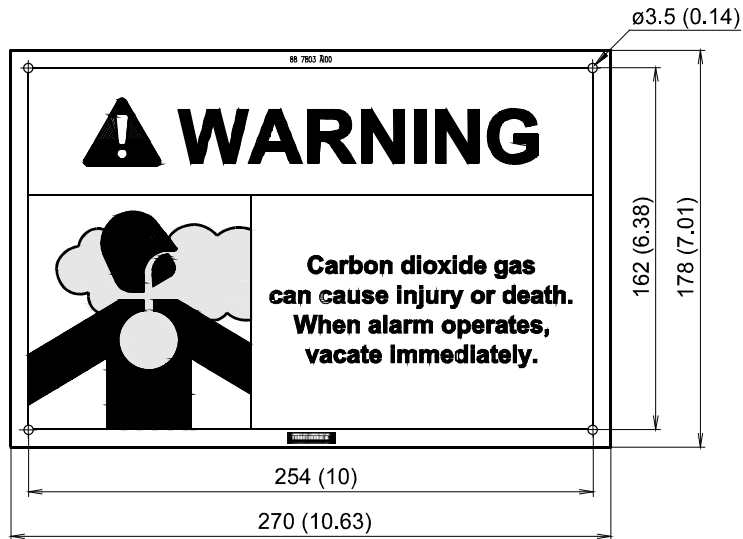
Extinguishing technology CO₂ HP

System accessories CO₂

Label NFPA 12

Dimension drawing

Dimensions in mm (inch)





Extinguishing technology CO₂ HP

System accessories CO₂

Label locking pin - valve lever

Approvals
no approval required



SAP designation
e.g. part no. 858220: Sign Sicherung - Ventilhebel

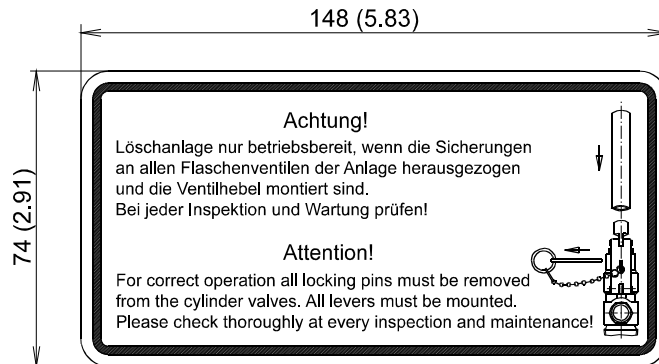
Maintenance
maintenance-free

Designation	Part no.	Weight
Label locking pin - valve lever	858220	0.003 kg (0.006 lbs)

Technical data

MaterialPVC self adhesive 0,1 mm (0,04") thickness
 GroundRAL1004 - yellow
 ScriptRAL9011 - black
 Script typeHelvetica medium face
 MarginRAL9011 - black

Dimension drawing Dimensions in mm (inch)



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FYJR.EX27301 - CARBON DIOXIDE EXTINGUISHING SYSTEM UNITS, GENERAL USE

Carbon Dioxide Extinguishing System Units, General Use

See General Information for Carbon Dioxide Extinguishing System Units, General Use

VIKING GMBH & CO KG

EX27301

INDUSTRIESTRASSE 10/12

23480 BAD OLDESLOE, GERMANY

High pressure carbon dioxide extinguishing system units, stored pressure type, having a nominal charging capacities of 5.4, 10.7, 67.50, and 80 liters of carbon dioxide for general applications. The units have an operating pressure of 850 psig (58 bar) at 70° F with operating temperatures of -18°C to 50°C (0°F to 120°F).

Discharge Components

Devices	Part No.	Nom Pipe Size, m (in)	Equivalent Length, m (ft) Schedule 40
Discharge Valve, Flexhose and Check Valve Assembly	—	12 (1/2)	6.5 (21.3)
Discharge Valve, Type K85-20.0-S59	885991	12 (1/2)	—
Discharge Valve, Type K85-20.0-S9	829759	12 (1/2)	—
Discharge Valve, Type K85-20.0-S159	887971	12 (1/2)	—
Discharge Valve, Type K85-2.0-S109	887969	12 (1/2)	—
Discharge Valve, type K85-20.0-S56	885929	12 (1/2)	—
Flexible Hose	859510	12 (1/2)	—
Check Valve	873930	12 (1/2)	—
Selector Valve, ISO	885189	25 (1)	0.18 (0.6)
Selector Valve, NPT	912052	25 (1)	0.18 (0.6)
Selector Valve, ISO	885191	40 (1-1/2)	0.27 (0.9)
Selector Valve, NPT	912053	40 (1-1/2)	0.27 (0.9)
Selector Valve, ISO	885192	50 (2)	0.37 (1.2)
Selector Valve, NPT	912054	50 (2)	0.37 (1.2)
Selector Valve	873217	65 (2-1/2)	0.43 (1.4)
Selector Valve	876255	80 (3)	0.55 (1.8)
Selector Valve	887895	100 (4)	0.67 (2.2)

Actuation Components

Device	Part No.
Solenoid Release Device - 24V	885738
Pneumatic Release Device - D25-H30	227303
Pneumatic Release Device - D55-H106	847199
Pneumatic Release Device - D55-H206	822613
Release Box, VZ3	886160
Release Box Solenoid - 24V	887363
Disable Device	886013
Pneumatic Control Device	827878
Three Way Ball Valve, DN4	605160
Ball Valve	NZ56-5120
Master Control Valve Manifold, 2-8 Units, 140 Bar	100049335 (885301, 885302, 885304, 887726, 887727, 887728, 887711)
Pilot Control Valve Manifolds, 2-15 branches	NZ56-0055 (830778, 830791, 830808, 830833, 830857, 830870, 830894, 830912, 830936, 830950, 830973, 830985, 830997, 834115)
Manifold Assembly	NZ56-0086 (885346, 885347, 885348, 885349, 885350, 885351, 885352, 885353, 885354, 885354)
Makrofon, Pneumatic Alarm	860050
Shuttle Non-return Valve, DN4	886247
Shuttle Non-return Valve, DN8	886248

Miscellaneous Equipment

Device	Part No.
Pilot Cylinder Support - Halter	812558
Pilot Cylinder Support - U-Profile	885323
Single Cylinder Support	774925
Weighing Device, WE4, WE4-L	888802, 888803
Safety Relief Valve	886282
Safety Relief Valve - SFD DN4 - 140 Bar	885869
Safety Relief Valve - SFD 300 - 300 Bar	912435

Disable Device Release Box	886013
Blocking Device, MX	885375
2-16, 67.5 L Master Actuation Cylinder Rack	NZ 92-9010 (768520, 768532, 768544, 768556, 768568, 768570, 768581, 773830, 773842, 773854, 773866, 773878, 773880, 773891, 773908)
2-16, 80 L Master Actuation Cylinder Rack	NZ 92-9042 (886528, 886529, 886530, 886531, 886532, 886533, 886534, 886535, 886536, 886537, 886539, 886541, 886542, 886543, 886544)
2-16, Slave Actuation Cylinder Rack - M300	NZ 92-9011 (768593, 768600, 768611, 768623, 768635, 768647, 768659, 773763, 773775, 773787, 773799, 773805, 773817, 733829, 773910)
2-16, 80 L Slave Actuation Cylinder Rack - M300	NZ 92-9043 (886545, 886546, 886547, 886548, 886549, 886550, 886552, 886553, 886554, 886555, 886556, 886557, 886558, 886559, 886562)

Last Updated on 2016-10-14

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