

TECHNICAL DATA SHEET

VALVE DN12 HIGH PRESSURE

Revision: B
Date: 12/06/2019
Code: 0732XX
Drawing n°: TDS0732XX-B



Description: This valve can be activated electrically, pneumatically or manually. It is suitable use a temperatures of -20 °C to +50 °C. It is equipped with a safety disc to serve as a pressure relief devices to protect the equipment against excessive internal pressure due to high temperature variations. Attention: Keep the protective cap for transportation and manipulation procedures.

Working pressure	Burst disc	Working temperature	Materials
200 bar	270 bar	-20°C to +50°C	Valve body: Brass / Pistons, screws, closing pistons, gasket holder: Stainless Steel, Brass / Elastomeric gasket: EPDM / Safety disc: Nickel, Copper
300 bar	405 bar		

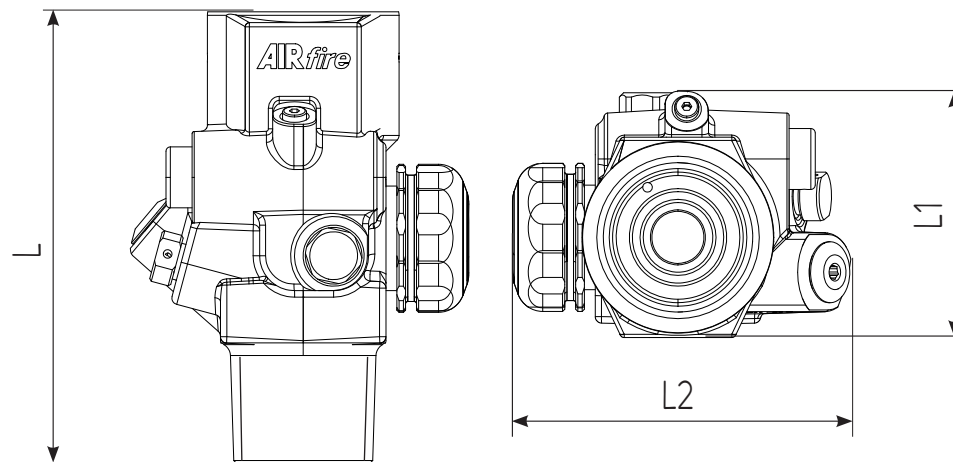
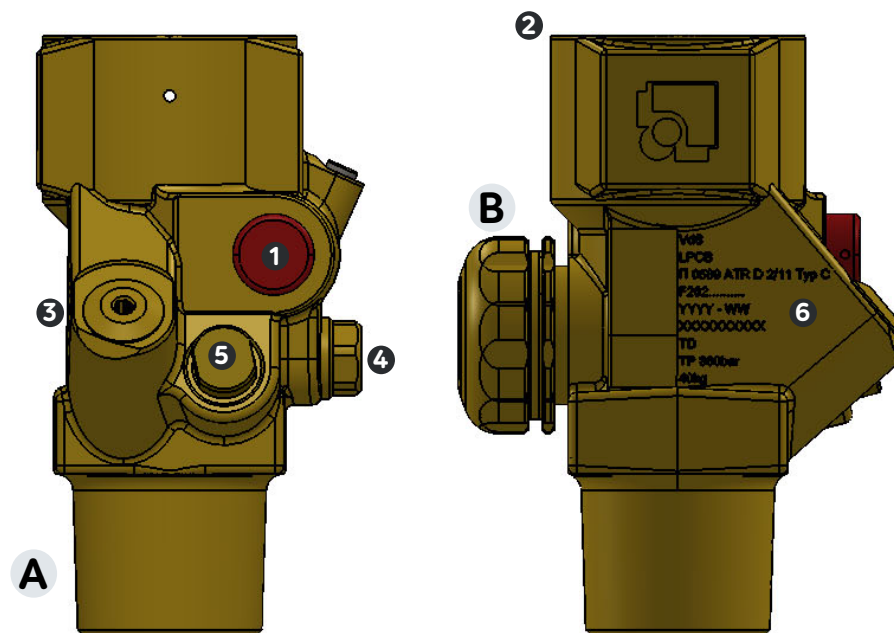
- ➊ Push seat valve for filling application
- ➋ Actuator connection, M36x1.5
- ➌ Pressure gauge connection, M12x1
- ➍ Pilot connection thread, G1/8"
- ➎ Safety screw with burst disc
- ➏ Punch marking
 0732XX
 TI 0589 ATR D 2/11 Typ C
 VdS / CE 0786 LPCB
 Production number
 YYYY-WW
 25E or 1"NPT / M24x1.5 or W21.8x1/14"
 TD
 TP: 360 bar
 40 kg

General tolerances: ISO 2768-1 m

Code	Thread (A)	Thread (B)	L (mm)	L1 (mm)	L2 (mm)	Cross section (mm ²)
073201 (200 bar)	Male 25E	Male M24x1.5	104	56.6	77.7	113.1
073202 (300 bar)						
073211 (200 bar)	Male 1" NPT					
073212 (300 bar)	Male 25E	Male W21.8x1/14"				
073221 (200 bar)						
073222 (300 bar)						

Approvals: VdS and LPCB approved according to CPR 305/2011/EU (EN 12094-4)

Valid for: IG-01 / IG-55 / IG-100 / IG-541



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.® all rights reserved

TECHNICAL DATA SHEET

PRESSURE GAUGE WITH CONTACT HIGH PRESSURE

Revision: A
Date: 13/06/2019
Code: 054XXX
Drawing n°: TDS054XXX-A



Description: The pressure gauge with switch contact is used to indicate and monitor the pressure inside the cylinder. In case of a loss in pressure, the factory-set switch point will send an electrical signal notifying of this loss. The pressure gauge with switch contact can be assembled and disassembled under pressure.

Electrical data

Switching voltage	4.5 ... 24 V DC/AC	Contact load	max. 2.4 W
Permissible temperature	-20 °C to +60 °C	Ingress protection	IP 65 acc. to EN 60529 / IEC 529
Switching current	5 ... 100 mA		

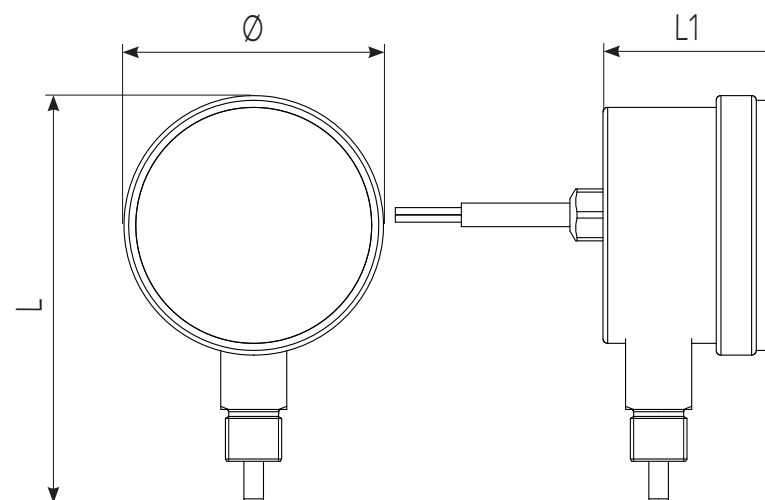
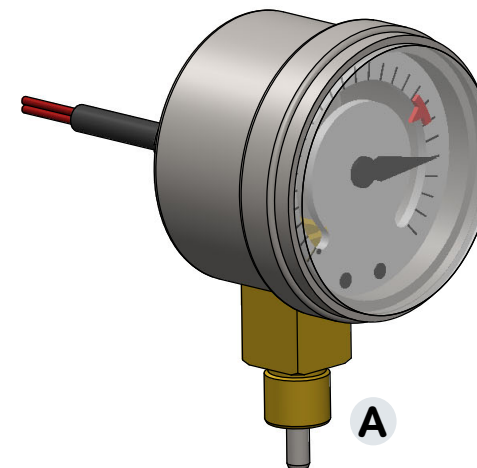
Code	Working pressure	Scale range	Switch point	Switch contact	Material
054002	200 bar	0-315 bar	180 bar	N.O. (Normally open)	Process connection: Copper alloy Pressure element: Copper alloy, helical type Movement: Copper alloy Dial: Aluminium, white Pointer: Plastic, black Case: Stainless steel Window: Polycarbonate
054003	300 bar	0-400 bar	270 bar		
054012	200 bar	0-315 bar	180 bar	N.C. (Normally close)	
054013	300 bar	0-400 bar	2270 bar		

General tolerances: ISO 2768-1 m

Thread (A)	Ø (mm)	L (mm)	L1 (mm)
Male M12x1 (DIN 13)	55	84	36

Approvals: VdS and LPCB approved according to CPR 305/2011/EU (EN 12094-10), CE 0786/09, EN 837-1.

Valid for: IG-01 / IG-100 / IG-55 / IG-541



TECHNICAL DATA SHEET

SEAMLESS INERT CYLINDERS

Revision:	A
Date:	11/06/2019
Code:	033X0X
Drawing n°:	TDS033X0X-A



Description: Steel tempered seamless cylinders for compressed, liquified or pressure dissolved gases.

Max. working pressure	Test pressure	Working temperature	Material	Painted
200 bar	300 bar	-20 °C to + 50 °C	Steel : 34CrMo4	Body: Red, RAL 3000 Shoulder: Green, RAL 6018
300 bar	450 bar			

1 Marking:
AIR FIRE S.p.A. - Cylinder code - Cylinder thread - Manufacturer identification - Serial number -
Test pressure - Water capacity - Minimum wall thickness - PI - United nations packaging symbol
- ISO 9809-2 - Country of approval - Inspection stamp - Initial test date - Empty cylinder weight

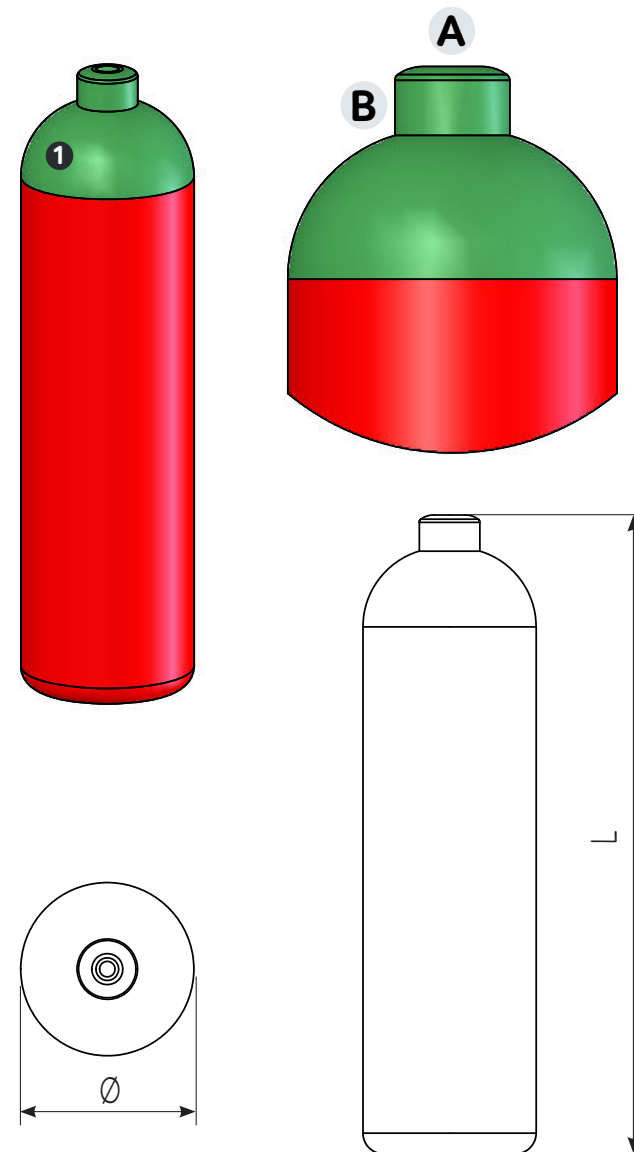
General tolerances: ISO 2768-1 m

Cylinder capacity	Working pressure	Code	Cylinder Thread (A)	Neck ring thread (B)	Ø (mm)	L (mm)
80 L	200 bar	033201	25E	W80	267	~1720
80 L	300 bar	033202				~1765
140 L	200 bar	033301			356	~1710
140 L	300 bar	033302				~1765

Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07.

2010/35/EU (TPED), 2014/68/EU (PED), ISO 9809-2

Valid for: IG-01 / IG-100 / IG-55 / IG-541



TECHNICAL DATA SHEET

TRANSPORT CAP DN12 VALVE W80

Revision:	A
Date:	06/05/2019
Code:	039205
Drawing n°:	TDS039205-A



Description: Protector cap used to protect the cylinder valve DN12 during the transport and cylinder manipulation.

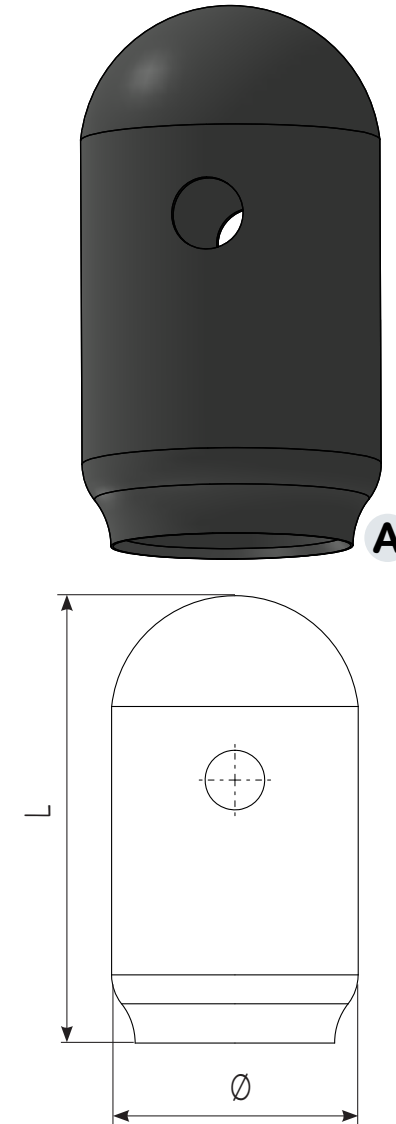
Code	Material	Finishing
039205	Steel	Painted: Grey RAL 7037 or green RAL 6018

General tolerances: ISO 2768-1 m

Thread (A)	L (mm)	Ø (mm)
Female thread W80x1/11"	190.5	105

Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07.

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



TECHNICAL DATA SHEET

DISCHARGE HOSE G3/4"

Revision:	B
Date:	12/06/2019
Code:	0412BX
Drawing n°:	TDS0412BX-B



Description: The high-pressure discharge hose G3/4" is used to drive the extinguishing agent from the cylinders to the discharge pipe or manifold. It is installed between the cylinder valve and check valve in cylinder bank systems or directly to the discharge pipe in modular systems. Beware, do not bend the hose in excess of the bending radius shown in the table.

Hose type	Max. working pressure	Burst pressure	Minimum bending radius	Working temperature
4SP	360 bar	>1080 bar	250 mm	-20 °C to + 50 °C

1 Punch marking
AIR FIRE S.p.A.
04212BX - ####
CE 0786 - VdS
WP: 360 bar

Materials

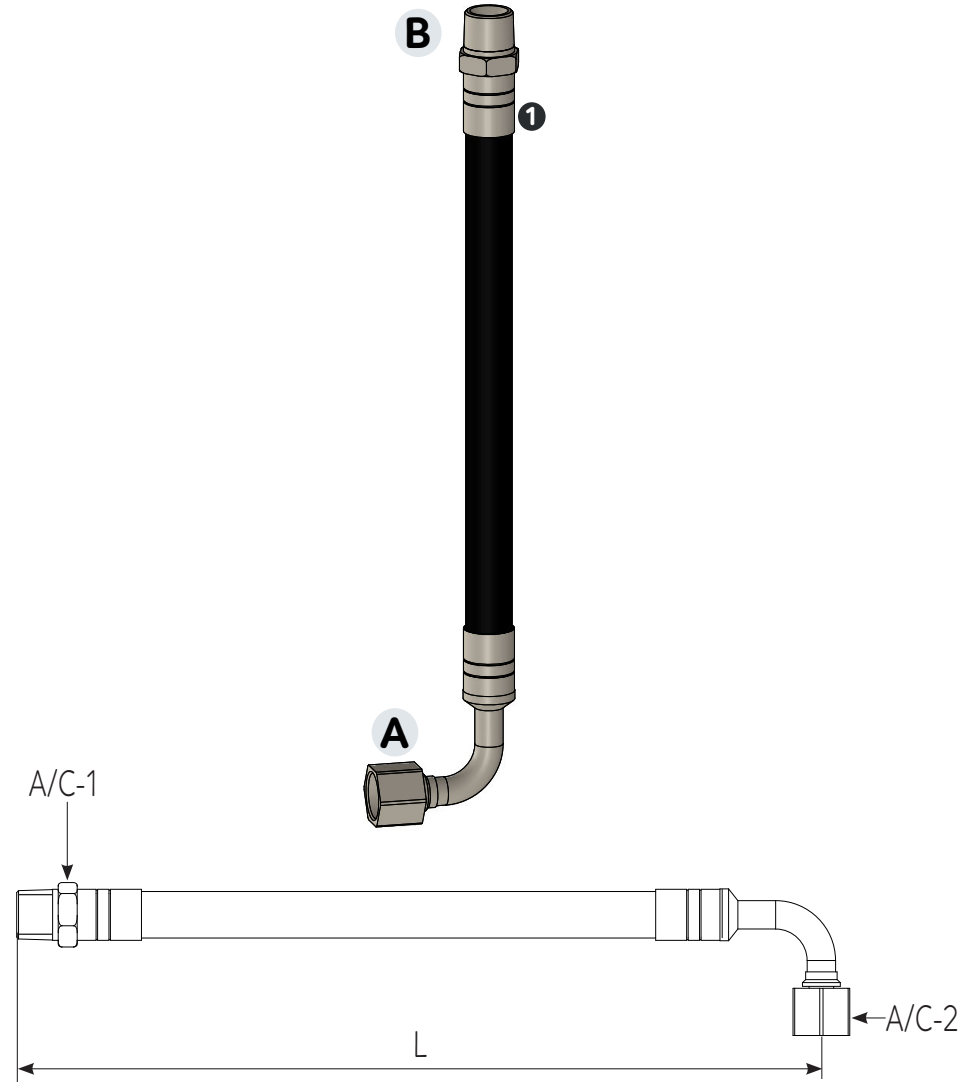
Hose: Rubber
Couplings and shells: Zinc-plated steel

General tolerances: ISO 2768-1 m

Code	Thread (A)	Thread (B)	L (mm)	A/C-1 (mm)	A/C-2 (mm)
0412B1	Swivel female M24x1.5 (DIN 13)	Male G3/4" (ISO 228)	400 (+/-20)	32	30
0412B2	Swivel female W21.8x1/14" (W. DIN 477)	Male G3/4" (ISO 228)		32	27

Approvals: VdS approved according to CPR 305/2011/EU (EN 12094-8)

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.® all rights reserved

TECHNICAL DATA SHEET

DISCHARGE HOSE DN16

Revision:	B
Date:	26/02/2018
Code:	0423A0
Drawing n°:	TDS0423A0-B



Description: The high-pressure discharge hose DN16 is used to drive the extinguishing agent from the cylinders to the discharge pipe or manifold. It is installed between the cylinder valve and check valve in cylinder bank systems or directly to the discharge pipe in modular systems. Beware, do not bend the hose in excess of the bending radius shown in the table.

Code	Nominal bore	Hose type	Max. working pressure	Mounting torque	Burst pressure	Minimum bending radius	Working temperature
0413A0	DN 16 (124.7 mm ²)	2SC	360 bar	40 Nm	>1080 bar	130 mm	-20 °C to + 50 °C

① Captive flat sealing

② Punch marking
AIR FIRE S.p.A.
04213A0 - ####
CE 0786 - VdS
WP: 360 bar

Materials

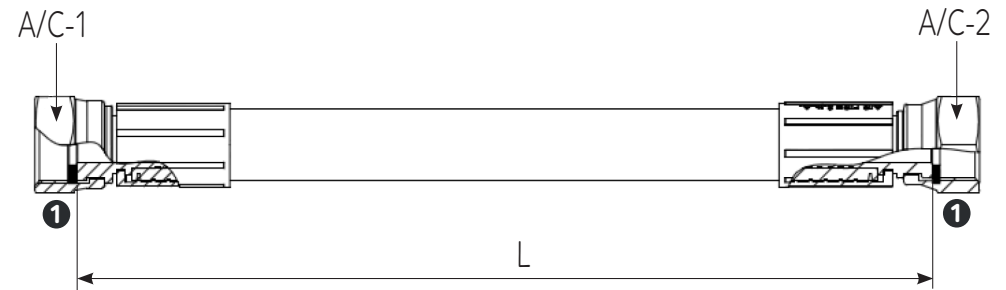
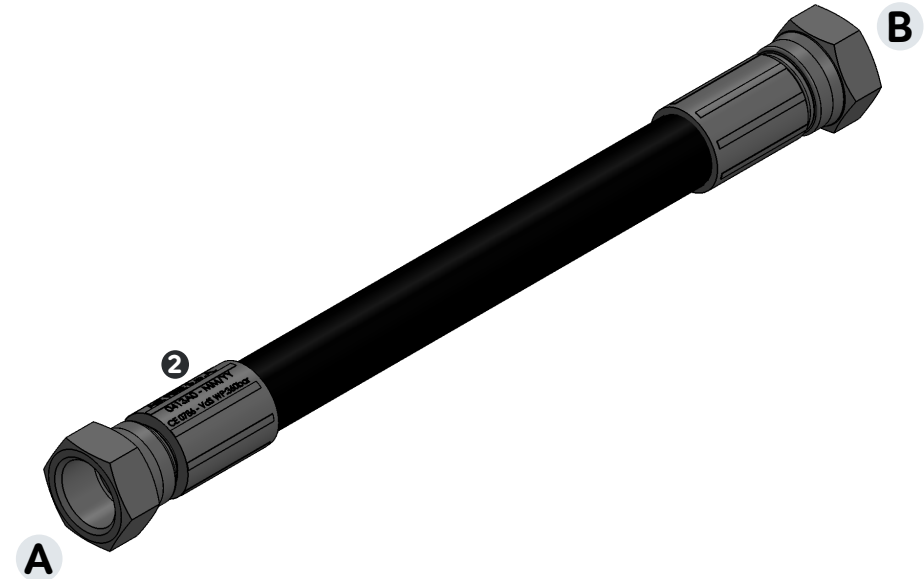
Hose: Synthetic rubber
Couplings and shells: Zinc-plated steel
Captive flat sealings: EPDM

General tolerances: ISO 2768-1 m

Thread (A)	Thread (B)	L (mm)	A/C-1 (mm)	A/C-2 (mm)
Swivel female M24x1.5 (DIN 13)	Swivel female G3/4" (ISO 228)	500 (+/-20)	32	32

Approvals: VdS approved according to CPR 305/2011/EU (EN 12094-8)

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.® all rights reserved

TECHNICAL DATA SHEET

CHECK VALVE DN12

Revision:	B
Date:	27/02/2018
Code:	0112A2
Drawing n°:	TDS0112A2-B



Description: Check valve allows gas flow in one direction. Used when two or more cylinders are connected to the same manifold. Connected between manifold and discharge hose, provides automatic mean to prevent extinguishant turbulent/ back flow into the cylinders upon discharge. Prevents loss of extinguishant in case a cylinder is removed (e.g. maintenance).

Check valve	Flow direction	Nominal bore	Max. working pressure	Mounting torque	Working temperature	Material
DN 12 (0112A2)	Arrow for indication	DN 12 (113.3 mm ²)	360 bar	max. 25 Nm	-20 °C to + 50 °C	Body valve: Stainless steel O-Rings: EPDM

1 Punch marking:
AIR FIRE S.p.A.
0112A2 - ####
CE 0786 - VdS
DN12 WP: 360 bar



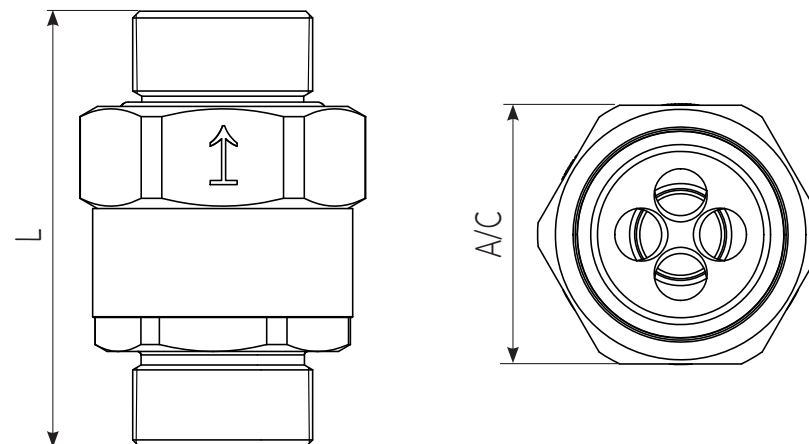
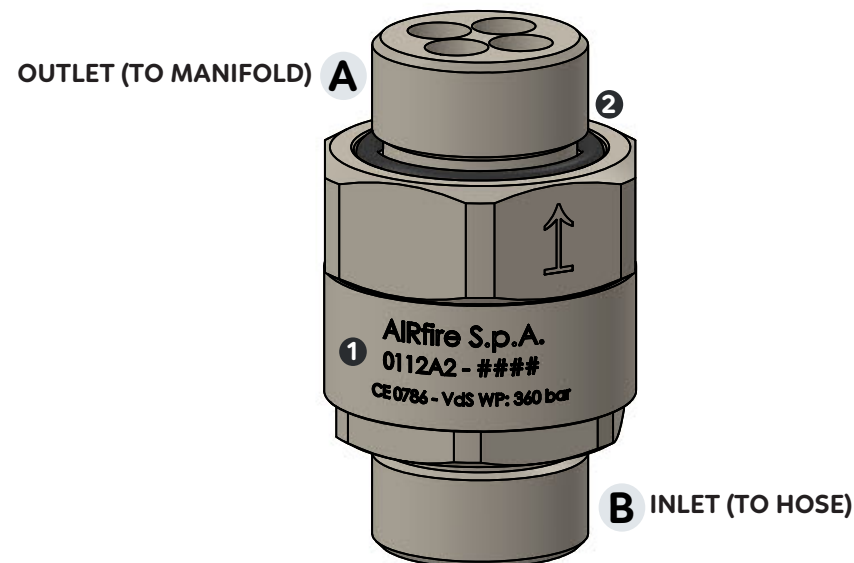
2 O-ring sealing

General tolerances: ISO 2768-1 m

Check valve	Thread (A)	Thread (B)	L (mm)	A/C (mm)
DN 12 (0112A2)	Male thread G3/4" (ISO 228)	Male thread G3/4" (ISO 228)	65	38

Approvals: VdS approved according to CPR 305/2011/EU (EN 12094-13)

Valid for: IG-01 / IG-55 / IG-100 / IG-541, CO₂, FK-5-1-12, HFC-227ea and HFC-125



TECHNICAL DATA SHEET

COUPLING SF G3/4" TO FF G3/4" WITH CAPTIVE FLAT SEALING

Revision:	A
Date:	11/06/2019
Code:	1241A0
Drawing n°:	TDS1241A0-A



Description: This coupling is used to connect the discharge hose 0412BX to the check valve 0112A2.

Code	Nominal bore	Max. working pressure	Working temperature	Material
1241A0	DN 12	360 bar	-20 °C to + 50 °C	Body: Zinc-plated steel Captive flat sealing: EPDM

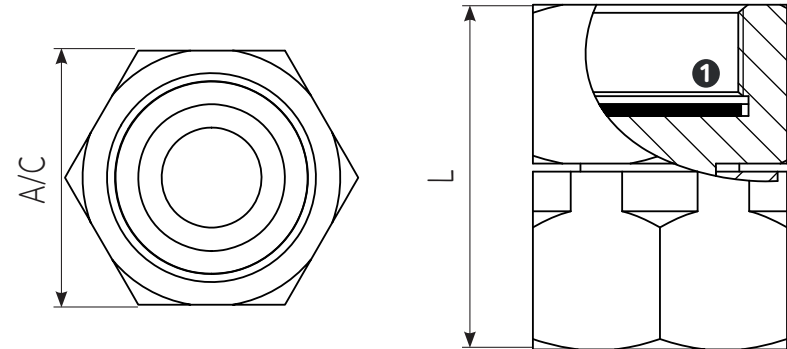
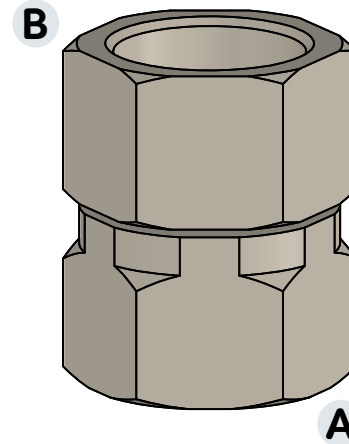
① Captive flat sealing

General tolerances: ISO 2768-1 m

Thread (A)	Thread (B)	L (mm)	A/C (mm)
Swivel female thread G3/4" (ISO 228)	Fixed female thread G3/4" (ISO 228)	43.5	32

Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07.

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



TECHNICAL DATA SHEET

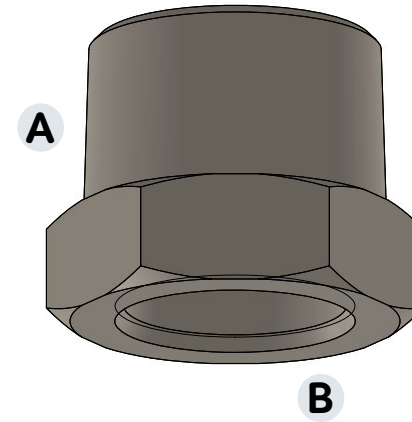
REDUCTION MALE 1" NPT TO FEMALE G3/4"

Revision: A
Date: 20/12/2018
Code: 124203
Drawing n°: TDS124203-A



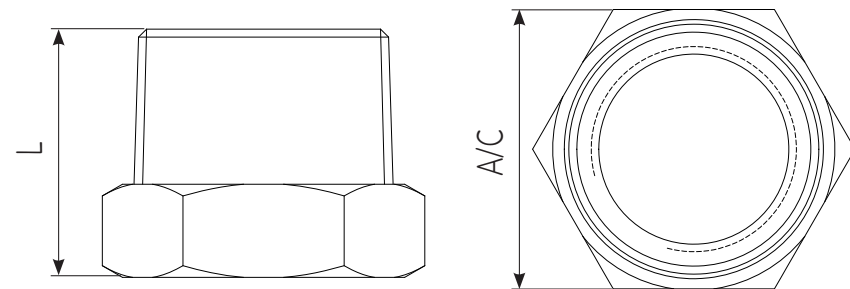
Description: This reduction is used to connect the discharge hose 0412BX to the restrictor 0922A0 in the Inert modular system.

Code	Nominal bore	Max. working pressure	Working temperature	Material
124203	DN 18	360 bar	-20 °C to + 50 °C	Zinc-plated steel



General tolerances: ISO 2768-1 m

Thread (A)	Thread (B)	L (mm)	A/C (mm)
Male thread 1" NPT (ANSI B.1.20.1)	Female thread G3/4" (ISO 228)	32	34



Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07.

Valid for: IG-01 / IG-100 / IG-55 / IG-541



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.® all rights reserved

TECHNICAL DATA SHEET

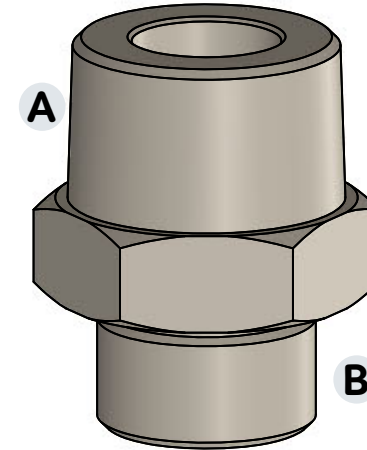
REDUCTION MALE 1" NPT TO MALE G3/4"

Revision: A
Date: 20/12/2018
Code: 124204
Drawing n°: TDS124204-A



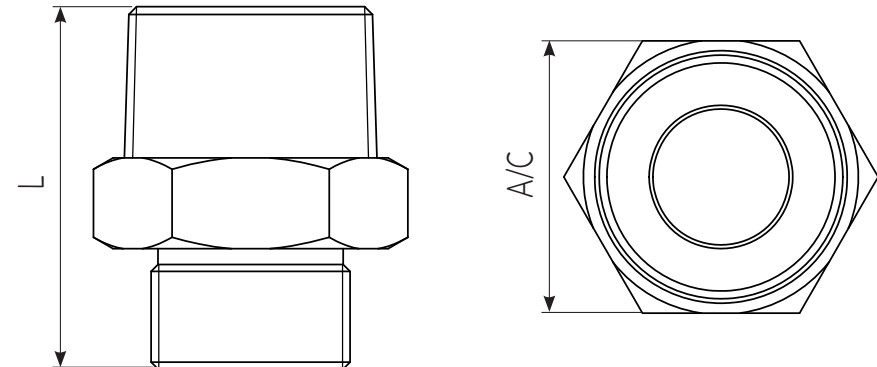
Description: This reduction is used to connect the discharge hose 0413A0 to the restrictor 0922A0 in the Inert modular system.

Code	Nominal bore	Max. working pressure	Working temperature	Material
124204	DN 18	360 bar	-20 °C to + 50 °C	Zinc-plated steel



General tolerances: ISO 2768-1 m

Thread (A)	Thread (B)	L (mm)	A/C (mm)
Male thread 1" NPT (ANSI B.1.20.1)	Male thread G3/4" (ISO 228)	48	34



Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07.

Valid for: IG-01 / IG-100 / IG-55 / IG-541



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.© all rights reserved

TECHNICAL DATA SHEET

HIGH-PRESSURE RELEASE HOSE

Revision:	C
Date:	14/12/2018
Code:	0422A1
Drawing n°:	TDS0422A1-C



Description: The high-pressure release hose is a flexible connection in the release circuit to activate the valves pneumatically. It is installed between the pilot line connection from the Master cylinder valve to the pneumatic actuators and/ or pneumatic-manual actuator on the slave cylinders.

Code	Nominal bore	Hose type	Max. working pressure	Mounting torque	Burst pressure	Minimum bending radius	Working temperature
0422A1	DN 5 (7.07 mm ²)	R7 3/16"	360 bar	8 Nm	>1080 bar	30 mm	-20 °C to + 50 °C

1 Laser marking
AIR FIRE S.p.A.
0422A1 - #####
CE 0786 - VdS
WP: 360 bar

2 Closing system: By cone 60°

Materials

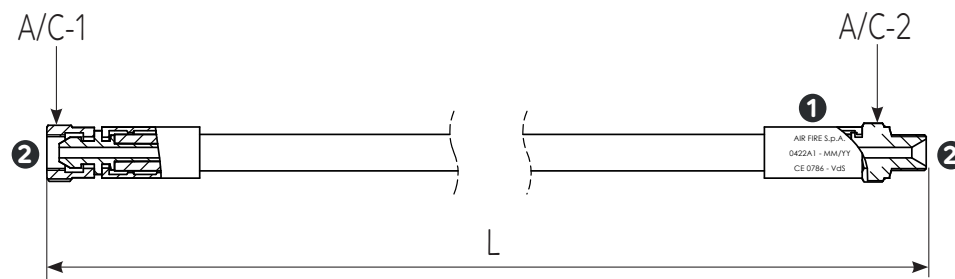
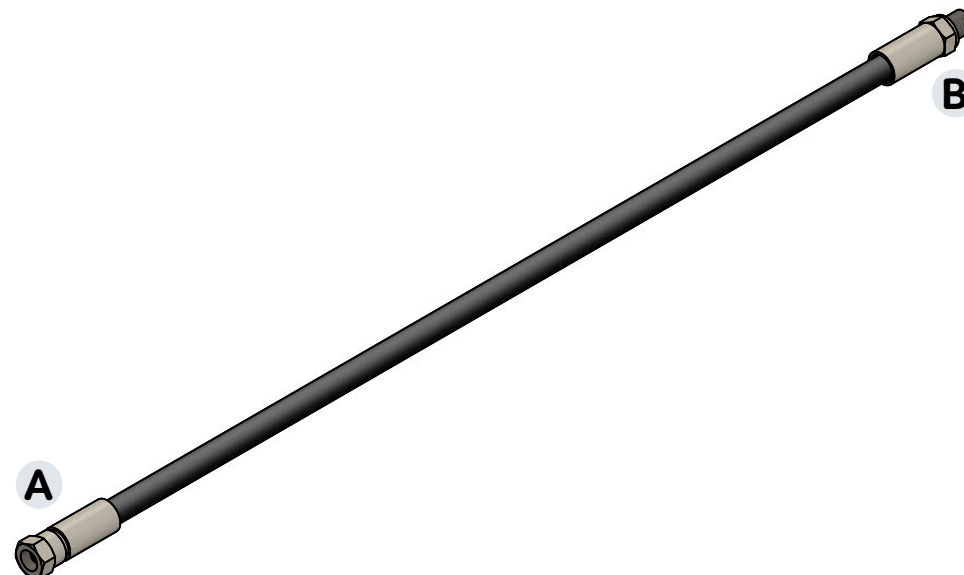
Hose: Thermoplastic polyester
mesh steel
Couplings and shells: Zinc-plated
steel

General tolerances: ISO 2768-1 m

Thread (A)	Thread (B)	L (mm)	A/C-1 (mm)	A/C-2 (mm)
Swivel female G1/8" (ISO 228)	Fixed male G1/8" (ISO 228)	500 (+/-20)	14	14

Approvals: VdS approved according to CPR 305/2011/EU (EN 12094-8)

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



TECHNICAL DATA SHEET

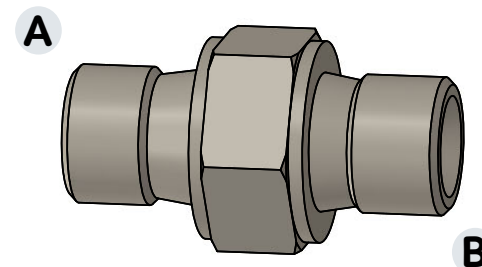
MALE COUPLING G1/8"

Revision: B
Date: 26/05/2019
Code: 122102
Drawing n°: TDS122102-B



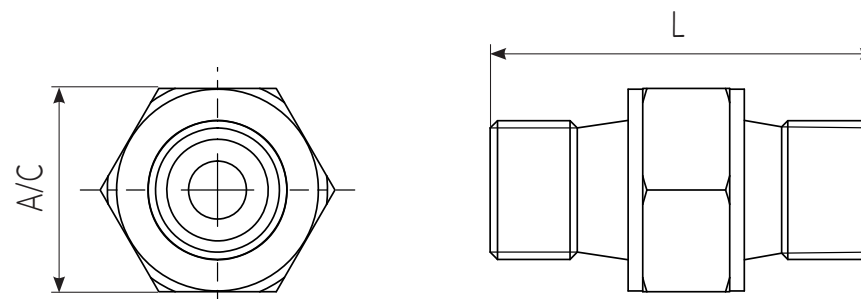
Description: Male coupling used to connect the high-pressure release hose (0422A1).

Code	Flow direction	Nominal bore	Max. working pressure	Working temperature	Material
122102	Without direction	DN 4	360 bar	-20 °C to + 50 °C	Zinc-plated steel



General tolerances: ISO 2768-1 m

Thread (A)	Thread (B)	L (mm)	A/C (mm)
Male thread G1/8" (ISO 228)	Male thread G1/8" (ISO 228)	26.5	14



Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07.

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.® all rights reserved

TECHNICAL DATA SHEET

PNEUMATIC ACTUATOR

Revision: B
Date: 03/05/2019
Code: 072202
Drawing n°: TDS072202-B



Description: The pneumatic actuator receives a pneumatic pressure from the release line to activate the pin that depressurizes the top chamber in the cylinder valve allowing the agent discharge. It is installed on top of the valve. The pin returns to the reset position when the release line is depressurized.

Code	Max. working pressure	Mounting torque	Working temperature	Materials
072202	360 bar	25 Nm (+/-2)	-20 °C to + 50 °C	Body: Brass Pin: Stainless steel Internal o-rings: EPDM

① Pneumatic line port 1: Female G1/8" (ISO 228)

② Pneumatic line port 2: Female G1/8" (ISO 228)

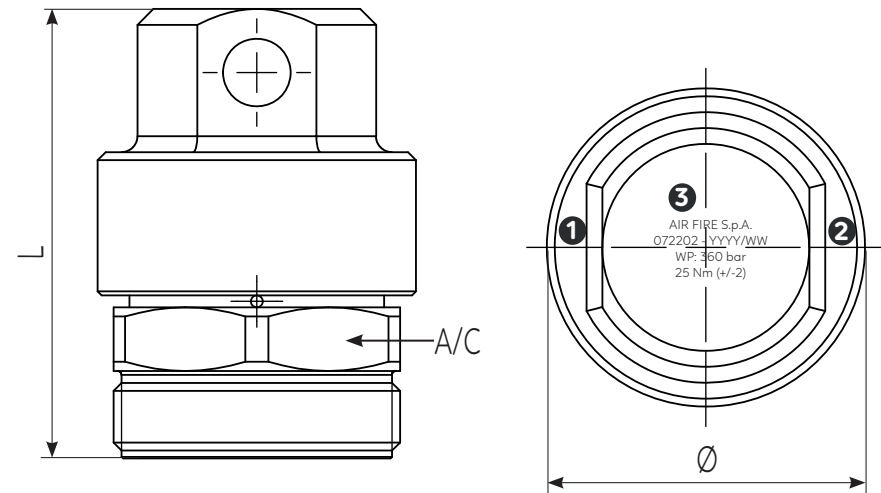
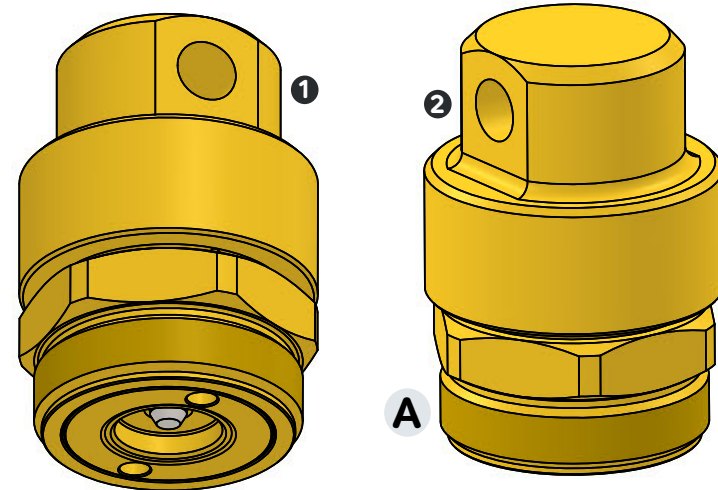
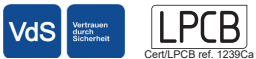
③ Punch marking:
 AIR FIRE S.p.A.
 072202 - YYYY/WW
 WP: 360 bar
 25 Nm (+/-2)

General tolerances: ISO 2768-1 m

Thread (A)	L (mm)	Ø (mm)	A/C (mm)
Male M36x1.5 (DIN 13)	56.5	40	36

Approvals: VdS and LPCB approved according to CPR 305/2011/EU (EN 12094-4)

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



TECHNICAL DATA SHEET

MANUAL ACTUATOR

Revision: B
Date: 02/05/2019
Code: 072203
Drawing n°: TDS072203-B



Description: The manual actuator is manually actuated once the lever is in horizontal position, to do so remove the security seal and then the safety pin. Once is done will activate the pin that depressurizes the top chamber in the cylinder valve allowing the agent discharge. It is installed on top of the valve or on top of the solenoid actuator. The pin returns to the reset position when the lever is in vertical position.

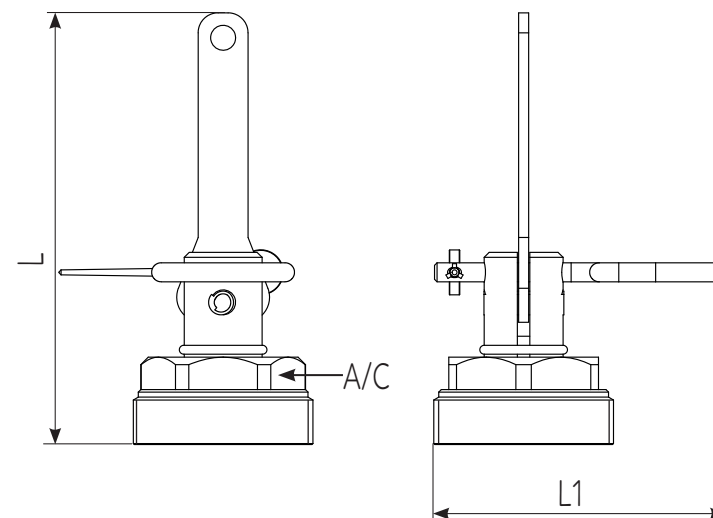
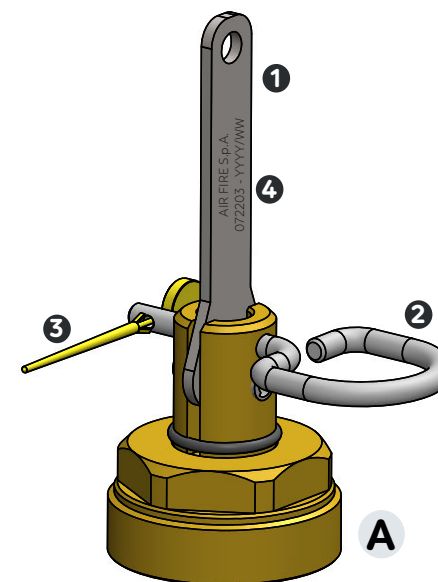
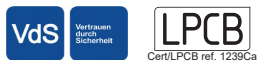
Code	Max. working pressure	Mounting torque	Working temperature	Materials
072203	360 bar	25 Nm	-20 °C to + 50 °C	Body: Brass Lever and safety pin: Stainless steel Security seal: Plastic

- ① Lever
- ② Safety pin
- ③ Security seal
- ④ Punch marking:
AIR FIRE S.p.A.
072203 - YYYY/WW

General tolerances: ISO 2768-1 m

Thread (A)	L (mm)	L1 (mm)	A/C (mm)
Male M36x1.5 (DIN 13)	86	59	30

Approvals: VdS and LPCB approved according to CPR 305/2011/EU (EN 12094-4)
Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.® all rights reserved

TECHNICAL DATA SHEET

PNEUMATIC - MANUAL ACTUATOR

Revision: B
Date: 02/05/2019
Code: 072213
Drawing n°: TDS072213-B



Description: The pneumatic - manual actuator is manually actuated once the lever is in horizontal position, to do so remove the security seal and then the safety pin or pneumatically actuated once receives a pneumatic pressure from the release line. Once is done will activate the pin that depressurizes the top chamber in the cylinder valve allowing the agent discharge. It is installed on top of the valve or on top of the solenoid actuator. The pin returns to the reset position when the release line is depressurized or/and when the lever is in vertical position.

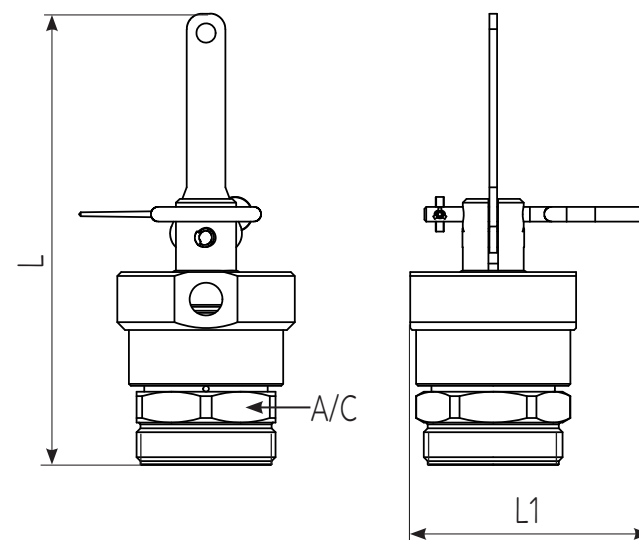
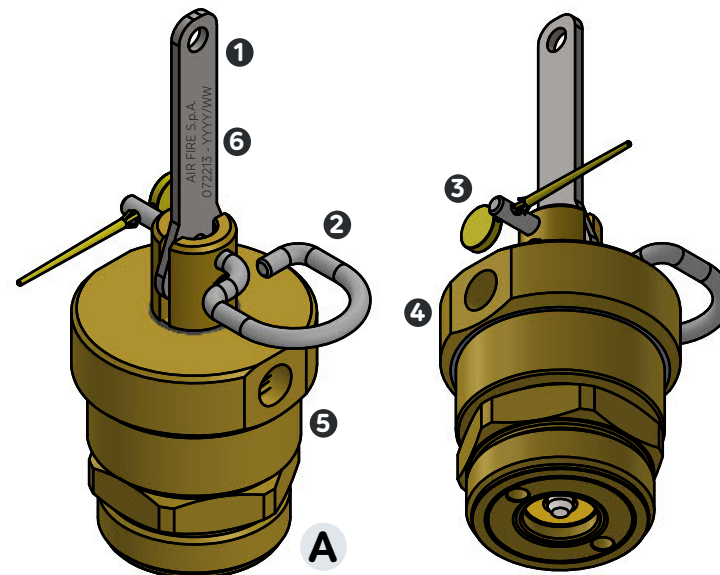
Code	Max. working pressure	Mounting torque	Working temperature	Materials
072213	360 bar	25 Nm	-20 °C to + 50 °C	Body: Brass Lever and safety pin: Stainless steel Security seal: Plastic

- ① Lever
- ② Safety pin
- ③ Security seal
- ④ Pneumatic line port 1: Female G1/8" (ISO 228)
- ⑤ Pneumatic line port 2: Female G1/8" (ISO 228)
- ⑥ Punch marking:
AIR FIRE S.p.A.
072213 - YYYY/WW

General tolerances: ISO 2768-1 m

Thread (A)	L (mm)	L1 (mm)	A/C (mm)
Male M36x1.5 (DIN 13)	117	62	41

Approvals: VdS and LPCB approved according to CPR 305/2011/EU (EN 12094-4)
Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



AIRfire Worldwide®, S.L. reserves the right to change or modify without previous notice any specification due to modifications in order to improve the products. AIRfire Worldwide® and ARMANfire® are registered trademarks of AIR fire S.p.A.© all rights reserved

TECHNICAL DATA SHEET

SOLENOID ACTUATOR FOR VALVE DN12

Revision: B
Date: 26/04/2019
Code: 022001
Drawing n°: TDS022001-B



Description: The solenoid actuator receives an electrical signal to activate the pin that depressurizes the top chamber in the cylinder valve DN12 allowing the extinguishing agent discharge. It is installed on top of the valve. It is needed to reset the pin to the rest position to be operative again.

Electrical data			
Voltage	24 VDC (+4/-6)	Permanent magnet	Nd-Fe-B
Temperature range TS	-20 °C to +50 °C	Permanent diagnostic current	0.02 A
Max. current at 20 °C	0.5 A	Protection class (DIN VDE 0580)	IP 65 (With assembled cable connector and attached sealing)
Power input	4.5 W		
Duty cycles	100% ED		

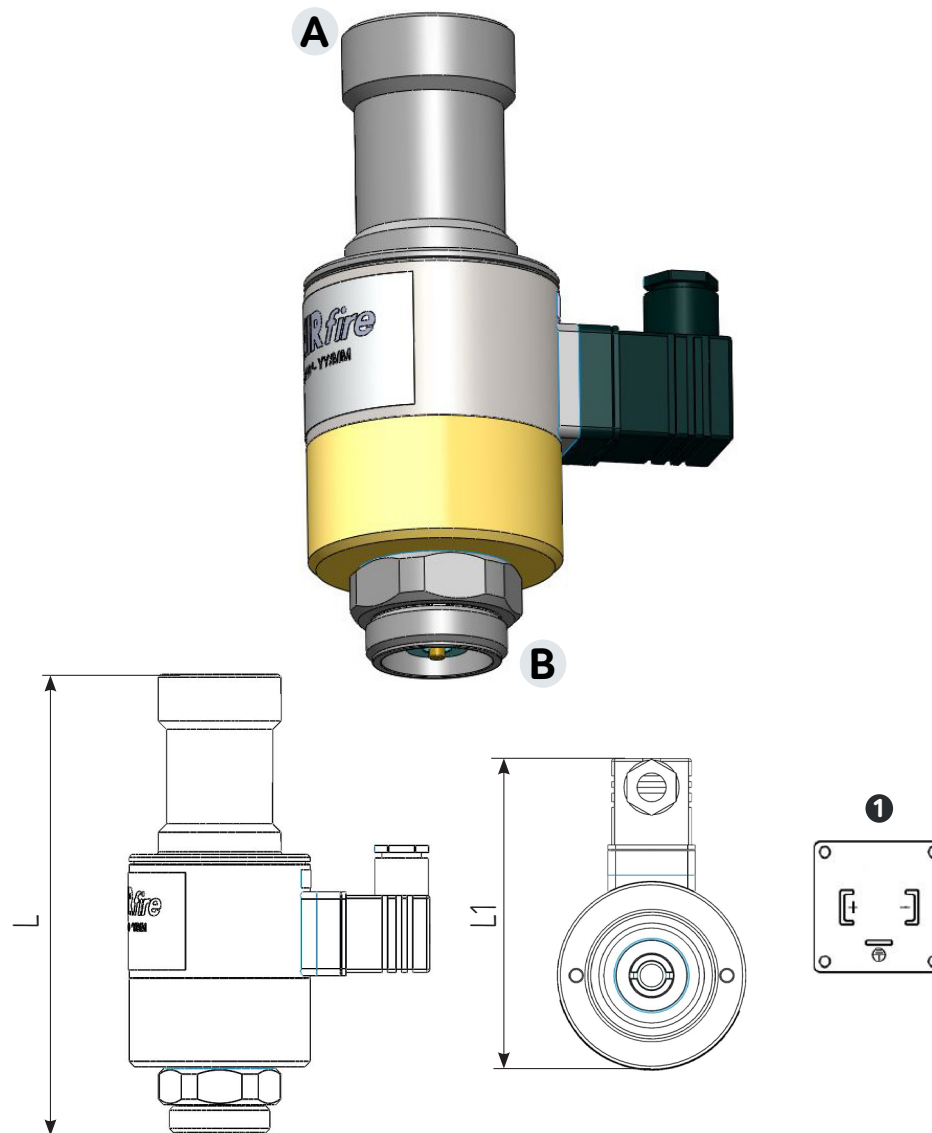
① Male connector plug socket
 DIN EN 175301-803 Form A

Valve reset	Materials
Manually, using reset tool (029002)	Body, screws, cap nuts, seals: Brass, stainless steel, nickel-plated steel, elastomeric seals, plastic

General tolerances: ISO 2768-1 m

Thread (A)	Thread (B)	L (mm)	L1 (mm)
Female M36x1.5 (DIN 13)	Male M36x1.5 (DIN 13)	160	108

Approvals: VdS and LPCB approved according to CPR 305/2011/EU (EN 12094-4)
Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



TECHNICAL DATA SHEET

PRESSURE SWITCH ON MANIFOLD

Revision: B
Date: 10/12/2018
Code: 0510B0
Drawing n°: TDS0510B0-B



Description: The pressure switch gives an electrical signal when the extinguishing system is activated. Once activated, it can only be reset manually. It has an open contact as well as closed one. It is installed on the manifold blind cap in bank of cylinders system or on the discharge pipe in modular system.

Electrical data			
Voltage	400 V	Protection against short circuits	Type aM fuse 10 A 500 V
Temperature range TS	-20 °C to +85 °C	Pollution degree	3
Thermal current	10 A	Protection degree	IP 67 acc. to EN 60529 (With cable gland presenting same or higher protection degree)
Conditional short circuit current	100 A acc. to EN 60947-5-1		

① Punch marking:
AIR FIRE S.p.A.
0510B0 - ####

② Reset knob

Maximum working pressure	Materials
360 bar	Body, screws, seals, reset knob: Brass, nickel-plated steel, elastomeric seals, plastic

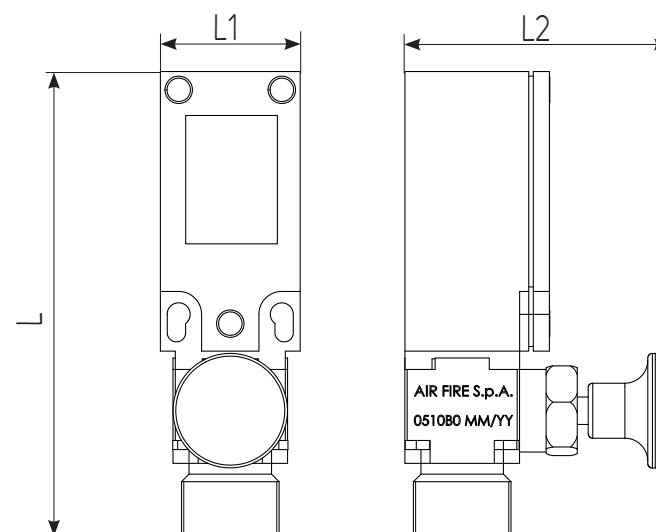
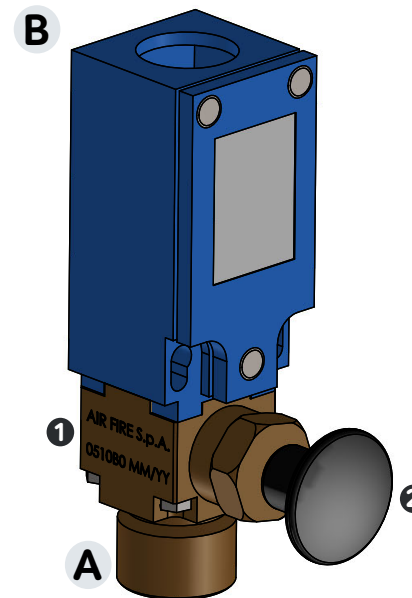
General tolerances: ISO 2768-1 m

Thread (A)	Electrical connection thread (B)	L (mm)	L1 (mm)	L2 (mm)
Male G1/2" (ISO 228)	Female M20x1.5 (DIN 13)	101.5	30.5	58

Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07

Electrical part approvals: IEC 60947-5-1; UL 508; CSA 22.2 No. 14; GB14048.5-2001

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea and HFC-125



TECHNICAL DATA SHEET

RESTRICTOR

Revision:	B
Date:	13/06/2019
Code:	092XA0
Drawing n°:	TDS092XA0-B



Description: The restrictor is used to control the discharge and flow of inert systems, to reduce the storage pressure into 60 bar or less in the downstream side according to the standards. The diaphragm is calibrated according to the appropriate software calculation report. It is installed between the end of the manifold and the piping network. In case of modular system it is installed directly to the discharge hose.

Flow direction	Max. working pressure	Working temperature	Material
Arrow for indication	360 bar	-20 °C to +50 °C	Restrictor body valve: Zinc-plated steel Diaphragm: Stainless steel Circlip: Steel

① Punch marking:
AIR FIRE S.p.A.
092XA0 - ####
VdS approved

③ Restrictor body

④ Calibrated diaphragm

⑤ Circlip

② Punch marking:
ØXX,X

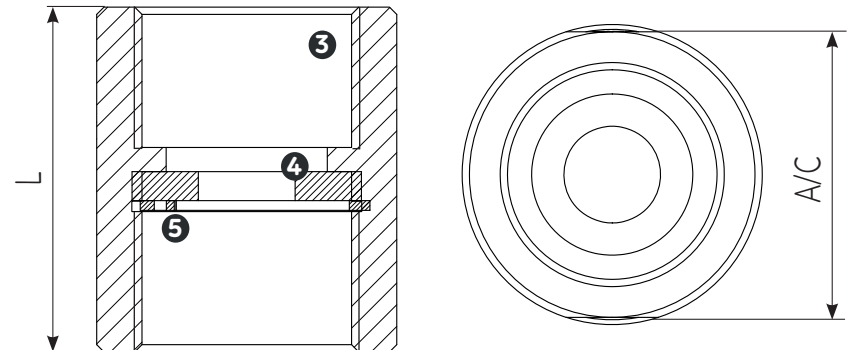


General tolerances: ISO 2768-1 m

Code	Thread (A) and (B)	L (mm)	A/C (mm)
Ø1" (0922A0)	Female thread 1" NPT (ANSI B.1.20.1)	68.7	42
Ø1 1/2" (0923A0)	Female thread 1 1/2" NPT (ANSI B.1.20.1)	71.3	59
Ø2" (0924A0)	Female thread 2" NPT (ANSI B.1.20.1)	73.4	73

Approvals: This component is part of VdS approved suppression system according to VdS 2344:2014-07; VdS 2454:2013-07.

Valid for: IG-01 / IG-55 / IG-100 / IG-541



TECHNICAL DATA SHEET

NOZZLE 360°

Revision:	A
Date:	07/05/2019
Code:	063XA2
Drawing n°:	TDS063XA2-A



Description: The nozzle releases the extinguishing agent inside the volume, controlling the flow and the agent distribution, in 360° pattern. It is installed at the end of the pipe network according to the hydraulic calculation report.

Nozzle size according to extinguishing agent:

IG-01 / IG-100 / IG-55 / IG-541, FK 5-1-12, HFC-227ea = 1/2" - 3/4" - 1" - 1 1/4" - 1 1/2" - 2"
CO₂ = 1/2" - 3/4"

Max. working pressure	Minimum operating pressure in chemical agents	Working temperature
90 bar	7 bar	-20 °C to + 50 °C
Coverage	Inert and chemical agents	CO ₂
	"C": 8 m / "R": 8.66 m / Height: 5 m	Area: 30 m² / Height: 5 m

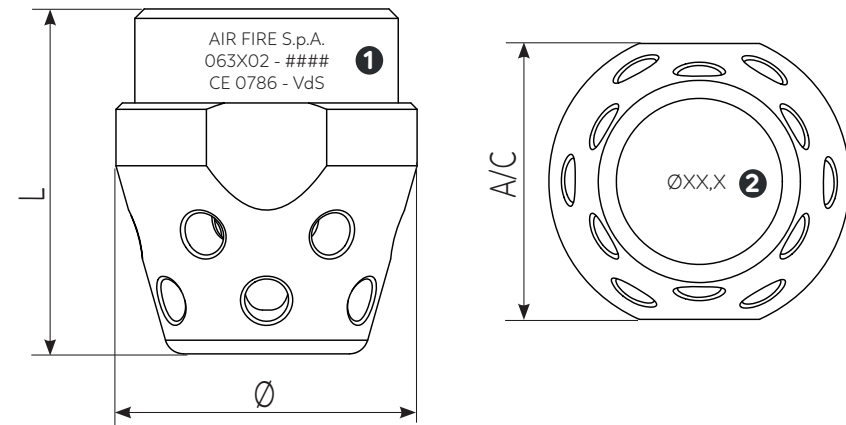
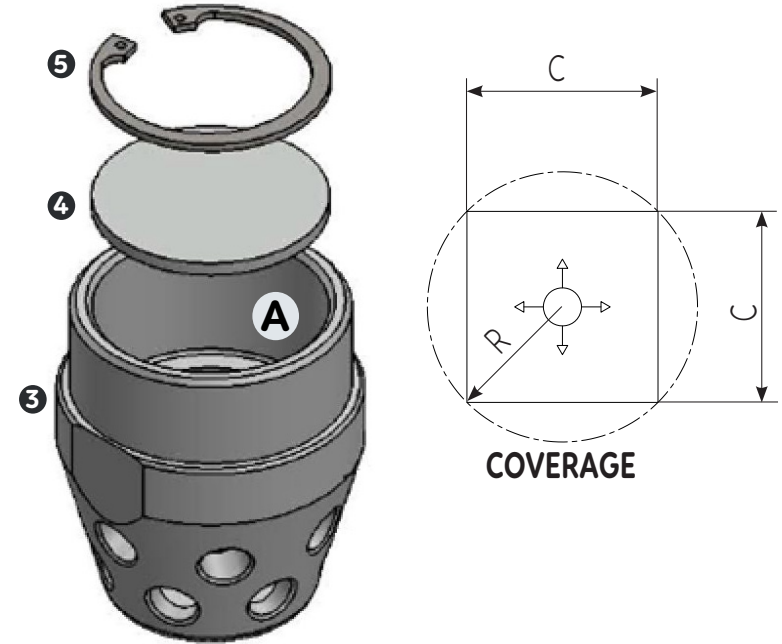
- ❶ Laser marking
AIR FIRE S.p.A.
063X02 - ####
CE 0786 - VdS
- ❷ Punch marking:
Drill size: ØXX,X
- ❸ Nozzle body (Chromed steel)
- ❹ Diaphragm (Stainless steel)
- ❺ Circlip (Zinc-plated steel)

General tolerances: ISO 2768-1 m

Ø DN	Threat (A) Female (ISO 228)	Commercial code	Body code	Ø (mm)	L (mm)	A/C (mm)
1/2"	G1/2" BSP	NOZ36001EN	063202	30	41.4	27
3/4"	G3/4" BSP	NOZ36002EN	063302	40	50	37
1"	G1" BSP	NOZ36003EN	063402	48	55	44
1 1/4"	G1 1/4" BSP	NOZ36004EN	063502	54	70	50
1 1/2"	G1 1/2" BSP	NOZ36005EN	063602	62	78	58
2"	G2" BSP	NOZ36006EN	063702	74	84	70

Approvals: VdS approved according to CPR 305/2011/EU (EN 12094-7)

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea.



TECHNICAL DATA SHEET

NOZZLE 180°

Revision:	A
Date:	07/05/2019
Code:	063XB2
Drawing n°:	TDS063XB2-A



Description: The nozzle releases the extinguishing agent inside the volume, controlling the flow and the agent distribution, in 180° pattern. It is installed at the end of the pipe network according to the hydraulic calculation report.

Nozzle size according to extinguishing agent:

IG-01 / IG-100 / IG-55 / IG-541, FK 5-1-12, HFC-227ea = 1/2" - 3/4" - 1" - 1 1/4" - 1 1/2" - 2"
 CO₂ = 1/2" - 3/4"

Max. working pressure	Minimum operating pressure in chemical agents	Working temperature
90 bar	7 bar	-20 °C to + 50 °C
Coverage	Inert and chemical agents	CO ₂
	"C": 8 m / "R": 8.94 m / Height: 5 m	Area: 30 m² / Height: 5 m

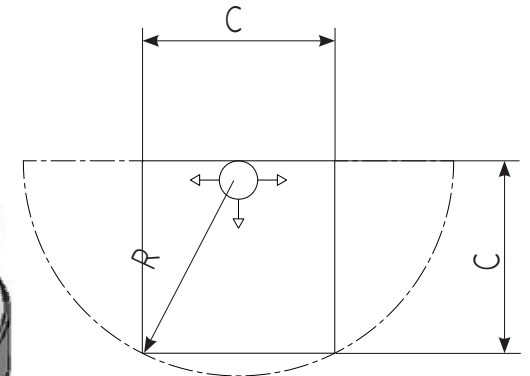
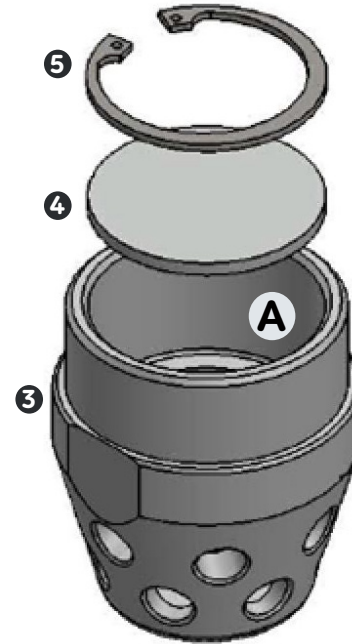
- 1 Laser marking
AIR FIRE S.p.A.
063X12 - ####
CE 0786 - VdS
- 2 Punch marking:
Drill size: ØXX,X
- 3 Nozzle body (Chromed steel)
- 4 Diaphragm (Stainless steel)
- 5 Circlip (Zinc-plated steel)

General tolerances: ISO 2768-1 m

Ø DN	Threat (A) Female (ISO 228)	Commercial code	Body code	Ø (mm)	L (mm)	A/C (mm)
1/2"	G1/2" BSP	NOZ18001EN	063212	30	41.4	27
3/4"	G3/4" BSP	NOZ18002EN	063312	40	50	37
1"	G1" BSP	NOZ18003EN	063412	48	55	44
1 1/4"	G1 1/4" BSP	NOZ18004EN	063512	54	70	50
1 1/2"	G1 1/2" BSP	NOZ18005EN	063612	62	78	58
2"	G2" BSP	NOZ18006EN	063712	74	84	70

Approvals: VdS approved according to CPR 305/2011/EU (EN 12094-7)

Valid for: IG-01 / IG-100 / IG-55 / IG-541, Carbon dioxide (CO₂), FK-5-1-12, HFC-227ea.



COVERAGE

