



**ROTAREX**  
FIRETEC



 **RXCO2**

**CO<sub>2</sub>**  
**FIRE SUPPRESSION SYSTEMS**

AUGUST 2021



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Rotarex Firetec system components are approved and certified compliant with recognized international norms. Certifications relate to individual products, and are clearly indicated on each respective product page.

In addition, all Rotarex manufacturing sites comply with ISO 9001 quality standards.



<sup>1</sup> Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

<sup>2</sup> According to the Pressure Equipment Directive (97/23/EC)

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL

# ALL THE COMPONENTS FOR A COMPLETE CO<sub>2</sub> SYSTEM

Rotarex offers all the components needed to configure a complete system for 60 bar carbon dioxide extinguishing agent.



- **Components entirely compatible and interchangeable**
- **Easier and faster installation - No "bad surprises"**
- **Everything to the same high-specification**
- **Greater confidence in performance at the critical time**
- **Full warranty protection**
- **Simplicity of a single supplier**

Rotarex makes it easy for system engineers and installers to configure fixed suppression systems—choosing only select components—or using the entire system

For maximum ease and certainty of performance, specify Rotarex components to configure the entire system.

A complete component solution		
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## SERIES B0480 VALVES FOR CO<sub>2</sub> SYSTEMS



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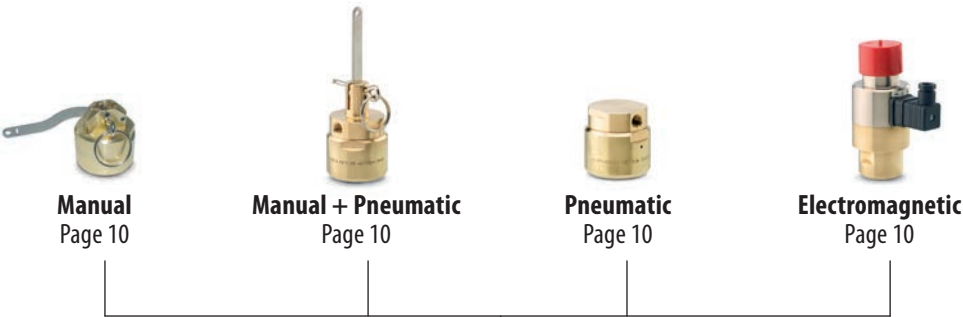
VALVE TECHNOLOGIES

ROTAREX THE VALVE EXPERT

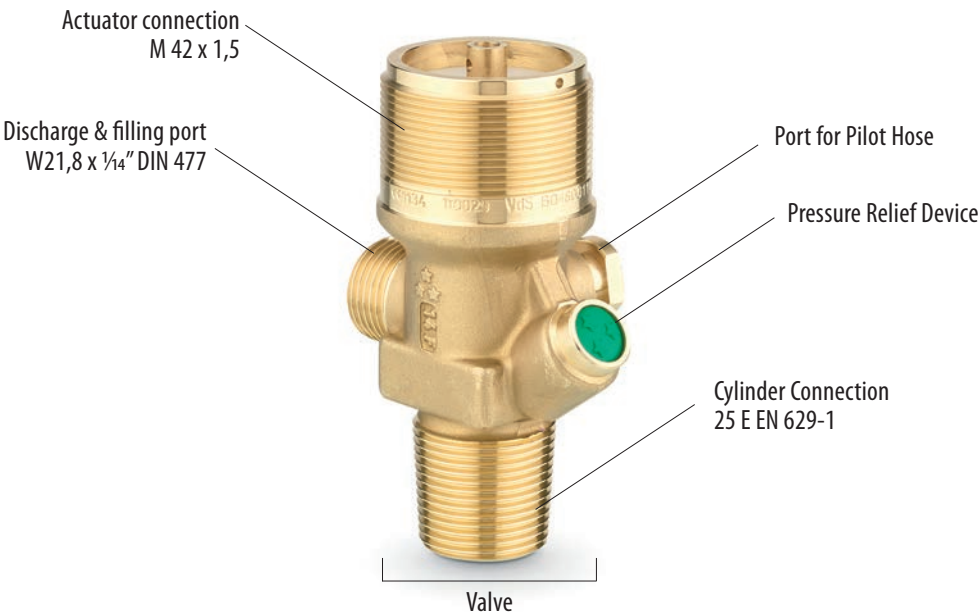
Rotarex is the world leader in high-performance cylinder valves for fixed extinguishing systems as well as Ultra High Purity, Medical, Cryogenic, Automotive and LPG applications. They leverage 90-year expertise, vast R&D infrastructure and global scale to provide the most technically advanced and dependable fire suppression valves in the market. Trust Rotarex valves to perform when it most counts.



SERIES B0480



Can be used with a range of different actuators



SPECIFICATIONS

Max. working pressure	250 bar	Seat orifice size	12 mm	Temperature range	-20°C to +60°C
Valve body	Brass	Outlet port	W21,8 x 1/4" DIN 477	Burst disc pressure	Available in 190, 225 and 250 bar versions. Other burst pressures on request.

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014  
2 According to the Pressure Equipment Directive (97/23/EC)

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL



# SERIES B0480 VALVES FOR CO<sub>2</sub> SYSTEMS

Solenoid-actuated cylinder valves for fire suppression systems.



On request

## KEY FEATURES

- Available in total discharge version
- Requires actuator device (see page 10)
- Special connections available on request
- ATEX-approved versions available on demand  
ATEX versions may not be used with electromagnetic actuator



Burst disc pressure  
190 bar



Burst disc pressure  
225 bar



Burst disc pressure  
250 bar

## SPECIFICATIONS

Product code	B04800111	B04800113	B04800110
Discharge type	Total	Total	Total
Max. working pressure	190 bar	225 bar	250 bar
Orifice size	Ø12 mm	Ø12 mm	Ø12 mm
Inlet connection	25E EN-629-1	25E EN-629-1	25E EN-629-1
Outlet connection	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477
Actuator connection	M42 x 1,5	M42 x 1,5	M42 x 1,5
Dip tube connection	M10 x 0,75	M10 x 0,75	M10 x 0,75
Burst disc pressure	190 bar	225 bar	250 bar
Valve body	Brass	Brass	Brass

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

## RELEASE DEVICES

Devices to actuate the release of extinguishing agent.

For use with Series B0480 Valves.



	Manual	Manual / Pneumatic			Pneumatic
Product code	B04420100	B04420065	B04420116	B04420066	B04420076
Technology	single piston	single piston	double piston	single piston	double piston
Max. pressure	300 bar	300 bar	300 bar	300 bar	300 bar
Valve connection	M 42 x 1,5	M 42 x 1,5	M 42 x 1,5	M 42 x 1,5	M 42 x 1,5
Pneumatic connection	-	G1/8"	G1/8"	G1/8"	G1/8"
Actuation force / pressure	< 150 N	< 150 N / 20 bar	< 150 N / 10 bar	20 bar	10 bar
Body material	Brass	Brass	Brass	Brass	Brass
Height	54	136,5	156,5	50	71
Diameter	Ø50	Ø50	Ø50	Ø50	Ø50

## ELECTROMAGNETIC RELEASE DEVICE

Device to electrically actuate the release of extinguishing agent.

For use with Series B0480 Valves.

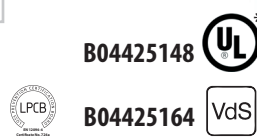


UL version delivered with 1 meter cable

### KEY FEATURES

- Most commonly used as a master valve to actuate the system electronically, such as with connection to a smoke or heat detection device
- Electronically actuates the release of extinguishing agent
- UL version delivered with 1 meter cable

### MINI VERSION WITH COMPACT DESIGN



### WITH BLOCKING DEVICE.

To temporarily unarm the system during maintenance



	With diode	Without diode	With diode	Without diode
Valve connection	M42 x 1,5	M42 x 1,5	M42 x 1,5	M42 x 1,5
Nominal voltage	24 VDC	24 VDC	24 VDC	24 VDC
Electrical connection	-	-	PG 9	PG 9
Nominal current	0,5 A	0,5 A	0,5 A	0,5 A
Protection Class	IP65	IP65	IP65	IP65
Height	131 mm	131 mm	135 mm	135 mm
Diameter	Ø 57 mm	Ø 57 mm	Ø 80 mm	Ø 80 mm

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

## RESET TOOL FOR ELECTROMAGNETIC ACTUATOR

Used to reset the electromagnetic actuator piston when putting the system back in active service after system discharge.



Product code	029210064
Connection	M 42 x 1,5
Material	Brass



Screws into the base of B04425XXX electromagnetic release device

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL  
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# SERIES B0480 CYLINDER/VALVE ASSEMBLIES FOR CO<sub>2</sub>

A complete cylinder/valve assembly. Includes:

- π marked seamless steel cylinder in choice of sizes
- B0480 cylinder valve
- Protection cap



## KEY FEATURES

- Improves productivity: cylinder/valves arrive pre-assembled
- Compliant with CE norms
- Cylinders can be delivered filled or unfilled
- UL approved value burst discs have a higher flow according to CGA 51.1
- Protection cap acc to ISO 11117



Article number 028000368

For UL: label included for filled cylinders only. Labels needs to be ordered separately for unfilled cylinder

\*\* UL certification applies to our cylinders filled with 45Kg CO<sub>2</sub> in our Asian UL filling station

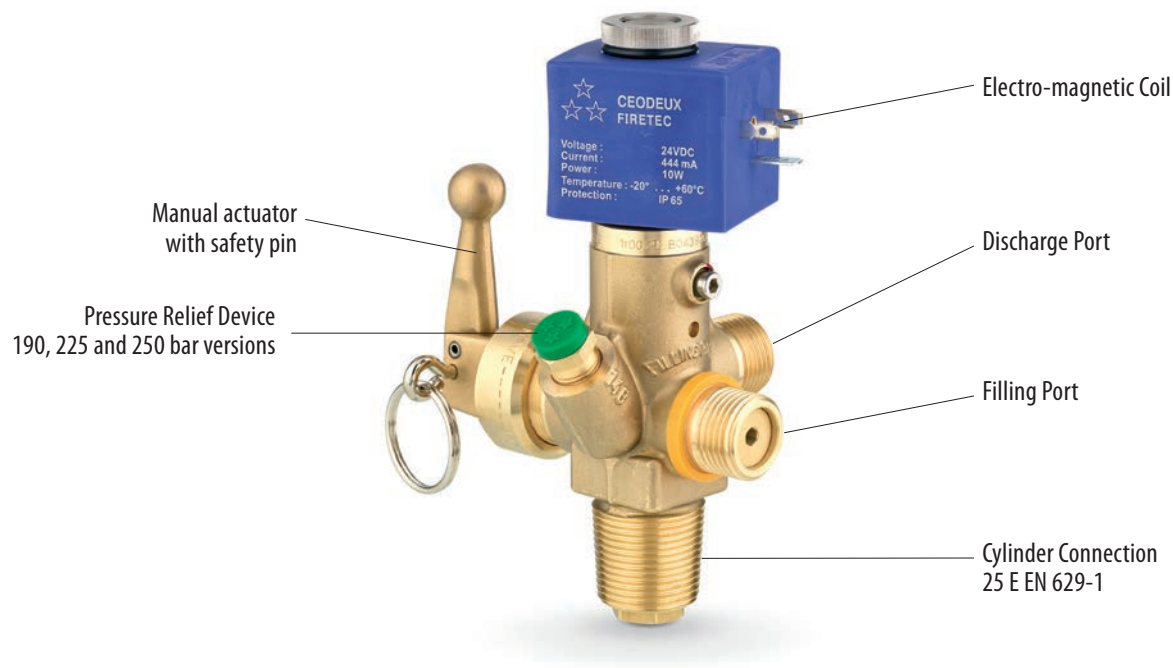


	45 Kg UL	50 Kg not UL
Product code unfilled	B04806007	B04806000
Product code filled	B04806509	B04806500
Max. working pressure	250 bar	
Length w/ cap	1573 mm	
Diameter	Ø267 mm	
Water volume	67L	
Burst disc pressure	250 bar	
Outlet connection	W21,8x1/14" DIN 477	
Guard material	Steel	

COMPLEMENTARY TECHNOLOGIES

SERIES B0439

Can be used as a pilot cylinder valve or for smaller, single cylinder installations where solenoid actuation is required.



SPECIFICATIONS

Max. Working pressure	250 bar
Valve body	Brass
Seat orifice size	7 mm

Temperature range	-20°C to +60°C
Burst disc pressure	Available in 190, 225 and 250 bar versions. Other burst pressures on request.

Operating voltage	24 VDC
Power consumption	10 watt

# SERIES B0439 VALVES FOR CO<sub>2</sub> SYSTEMS

Cylinder valves with integrated solenoid actuation for 60 bar CO<sub>2</sub> fire suppression systems.

Often used for pilot cylinders for liquid-based systems or for smaller installations using a single cylinder.

## KEY FEATURES

- Available in total discharge or intermittent discharge versions
- ATEX version available
- Special connections available on request
- Other burst-disc pressures available on request

π CE<sup>1</sup>



Total Discharge



Intermittent



Total Discharge ATEX approved



	Total Discharge		Intermittent		Total Discharge ATEX	
Product code	B04390030	B04390031	B04390503	B04390505	B04390046	B04390051
Discharge type	Total	Total	Intermittent	Intermittent	Total	Total
Max. working pressure	250 bar	190 bar	250 bar	190 bar	190 bar	250 bar
Orifice size	Ø7 mm	Ø7 mm	Ø7 mm	Ø7 mm	Ø7 mm	Ø7 mm
Inlet connection	25E EN-629-1	25E EN-629-1	25E EN-629-1	25E EN-629-1	25E EN-629-1	25E EN-629-1
Outlet connection	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477
Dip tube connection	M 10 x 0,75	M 10 x 0,75	M 10 x 0,75	M 10 x 0,75	M 10 x 0,75	M 10 x 0,75
Operating voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Power consumption	10 Watt	10 Watt	10 Watt	10 Watt	11,4 Watt	11,4 Watt
Burst disc pressure	250 bar	190 bar	250 bar	190 bar	190 bar	250 bar
Valve body	Brass	Brass	Brass	Brass	Brass	Brass

<sup>1</sup> Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

## B0439 CYLINDER/VALVE ASSEMBLIES

A complete cylinder/valve assembly.

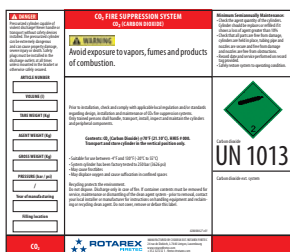
Often used as a pilot cylinder for liquid-based systems or for smaller installations using a single cylinder.

Includes:

- $\pi$  marked steel cylinder in choice of sizes
- B0439 cylinder valve
- Protection cap

### KEY FEATURES

- Improves productivity: cylinder/valves arrive pre-assembled and ready-to-fill
- Compliant with TPED directive
- Choice of filled or unfilled cylinders
- Equipped with the B04390030 valve (see p.13)



Article number 028000427

$\pi$



	2 Kg.	5 Kg.	10 Kg.	20 Kg.	30 Kg.
Product code unfilled	B04394001	B04394000	B04394002	B04394007	B04394008
Product code filled	B04394501	B04394500	B04394502	On request	On request
Max. working pressure	250 bar	250 bar	250 bar	250bar	250 bar
Operating temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Length w/ cap	626 mm	725 mm	732 mm	1189mm	1682mm
Diameter	Ø108 mm	Ø140 mm	Ø204 mm	Ø204mm	Ø204mm
Discharge type	Total	Total	Total	Total	Total
Orifice size	Ø7 mm	Ø7 mm	Ø7 mm	Ø7 mm	Ø7 mm
Inlet connection	25E EN-629-1	25E EN-629-1	25E EN-629-1	25E EN-629-1	25E EN-629-1
Outlet connection	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477
Operating voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Power consumption	10 Watt	10 Watt	10 Watt	10 Watt	10 Watt
Burst disc pressure	250 bar	250 bar	250 bar	250 bar	250 bar
Valve body	Brass	Brass	Brass	Brass	Brass

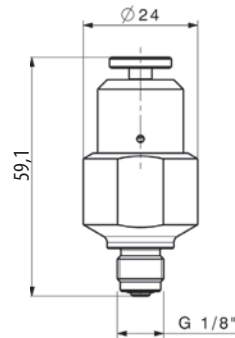


## BLEED VALVE

To vent overpressure and prevent false system discharge in the event of a small pressure leak from the cylinders into the pneumatic actuators.



Product code	029730040
Pneumatic connection	G 1/8"
Closing pressure	between 0,7 to 1,5 bar
Flow at p=0.6 bar	6 liters/min



Mounts on all pneumatic release devices

## PILOT HOSES

Hose to connect multiple cylinders in a series.

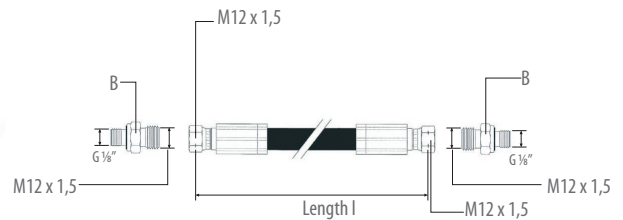
Connects a master valve or a pneumatic actuator with another pneumatic actuator.



Adapter must be ordered separately. 2 per hose.

- Both ends have a straight fitting
- 400 bar working pressure
- With O-rings

### STRAIGHT PILOT HOSE FOR B0480



	Product code	Length l	Connection	Bending radius
A1	B06920211	400 mm	2 x M12 x 1,5	75 mm
A2	B06920212	700 mm	2 x M12 x 1,5	75 mm
A3	B06920213	500 mm	2 x M12 x 1,5	75 mm
Adapter B	029510006		M12 x 1,5 / G 1/8	

### SPECIFICATIONS

Working pressure	400 bar	Temperature Range	-40°C to 100°C	Interior diameter	1/8"
Burst pressure	1600 bar	Material	Synthetic rubber oil resistant	Norm	EN 857 2 SC
Torque	20-25 Nm				

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

## MONITORING SWITCH

Monitors that the actuator is properly in place to actuate the system.

Connects to the alarm box.

### KEY FEATURES

- Compact design: remains in the cylinder diameter
- Easy installation: simply clamps around the valve base
- Retrofit of existing installations possible



Product code	029905200	029905206
Description	Mounted on B0480 valve	Mounted on B0480 valve
Cable	No	1,3m

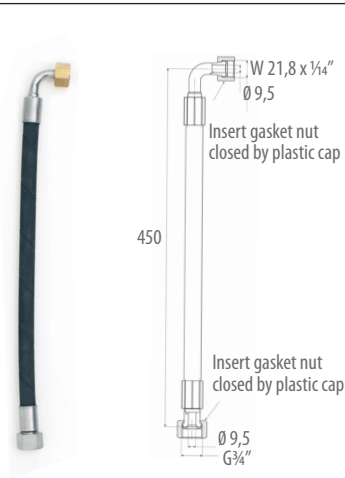


DISCHARGE HOSES

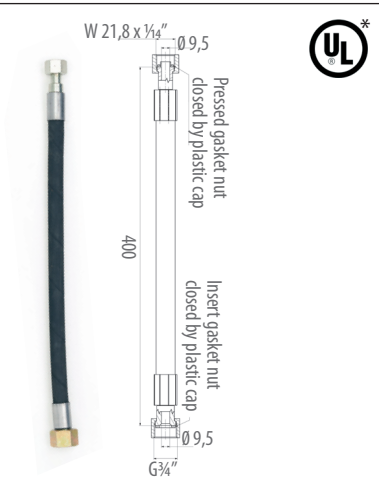
Hose to connect the cylinder valve to the manifold in fixed fire suppression systems.



DN 12 90° ELBOW



DN 12 STRAIGHT



Product code	B06920226	B06920224
Working pressure	380 bar	380 bar
Burst pressure	1520 bar	1520 bar
Temperature range	-40°C to 100°C	-40°C to 100°C
Torque	38-42 Nm	38-42 Nm
Material	Synthetic rubber oil resistant	Synthetic rubber oil resistant
Norm	EN 853 2 SN	EN 853 2 SN
Valve connection (inlet)	W 21,8 x 1/4" DIN 477	W 21,8 x 1/4" DIN 477
To manifold connection (outlet)	G 3/4"	G 3/4"
Bending radius	130 mm	130 mm
Length	450 mm	400 mm

CHECK VALVE

Prevents backflow into the cylinder.

Required for each hose attachment to the discharge manifold.



Product code	B04600008
Max working pressure	360 bar
Gases	IG01, IG55, IG100, IG541, CO <sub>2</sub>
Material	Brass
Hose connection	G 3/4"
Manifold connection	R1"

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL

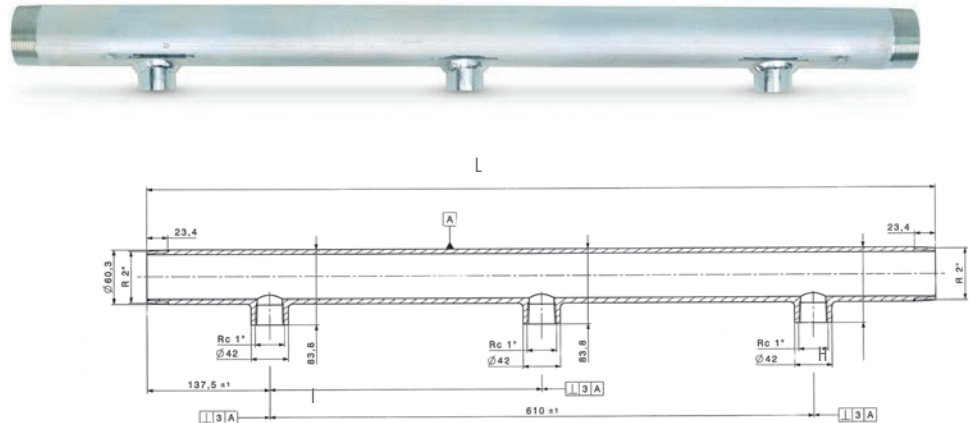


## MANIFOLD FOR CO<sub>2</sub> – 1 ROW

Manifolds to connect from 2 to 5 cylinders.  
Single row configuration.



Max working pressure: 140 bar



Inlets: Rc 1"	Product code	Length L	Length l	Height H
2 cylinders	B05800013	580 mm	305 mm	83,8 mm
3 cylinders	B05800014	885 mm	305 mm	83,8 mm
5 cylinders	B05800015	1495 mm	305 mm	83,8 mm

### SPECIFICATIONS

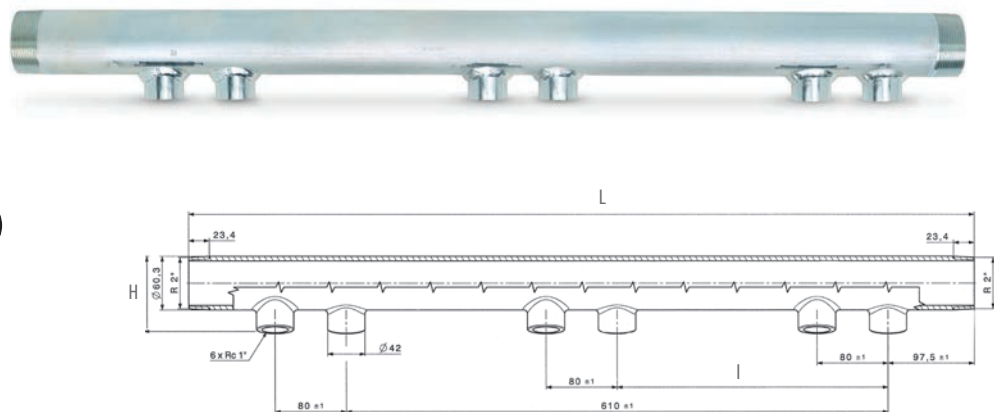
<b>Working pressure</b>	Max 140 bar	<b>Gases</b>	IG01, IG55, IG100, IG541, CO <sub>2</sub>	<b>Connection</b>	Rc1"
<b>Test pressure</b>	210 bar	<b>Surface</b>	Galvanized steel	<b>Outlet Connection</b>	R2"

## MANIFOLD FOR CO<sub>2</sub> – 2 ROWS

Manifolds to connect from 4 to 10 cylinders.  
Double row configuration.



Max working pressure: 140 bar



Inlets: Rc 1"	Product code	Length L	Length l	Height H
4 cylinders	B05800016	580 mm	305 mm	83,8 mm
6 cylinders	B05800017	885 mm	305 mm	83,8 mm
10 cylinders	B05800018	1495 mm	305 mm	83,8 mm

### SPECIFICATIONS

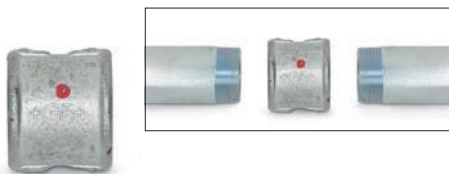
<b>Working pressure</b>	Max 140 bar	<b>Gases</b>	IG01, IG55, IG100, IG541, CO <sub>2</sub>	<b>Connection</b>	Rc1"
<b>Test pressure</b>	210 bar	<b>Surface</b>	Galvanized steel	<b>Outlet Connection</b>	R2"

2 According to the Pressure Equipment Directive (97/23/EC)

## MANIFOLD CONNECTORS AND CAPS

- Fittings to connect or seal Firetec manifolds
- Respects standards ISO 49 and EN 10242
- Red dot confirms testing up to 300 bar

### MANIFOLDS CONNECTOR



### END CAP



Product code	026300500	023400100
Working pressure	140 bar	140 bar
Test pressure	300 bar	300 bar
Surface	Galvanized steel	Galvanized steel
Connection	G2"	G2"

## PRESSURE SAFETY VALVE FOR MANIFOLD

Safety device to prevent over pressure during discharge.



Product code	029730043
Relief pressure	180 bar at 20°C 2610 psi at 68°F
Connection	G 1/2"

## PRESSURE SAFETY DEVICE FOR MANIFOLD

Safety device to prevent over pressure during discharge.



Product code	029730039
Relief pressure	190 bar at 20°C 2755 psi at 68°F
Connection	G 1/2"

## PRESSURE & FLOW DETECTOR SWITCH

Used to send a signal when the system is discharging.

Pressure Activated.

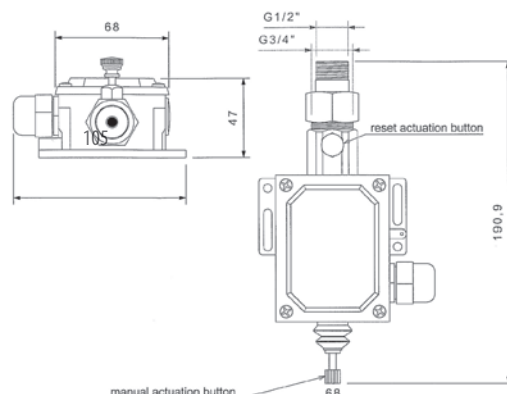


### KEY FEATURES

- Sends a signal to a control panel or alarm box at the earliest phase of discharge
- Actuated at 2 bar pressure
- Flexible Voltage/Amp power source



Product code	028250050
Opening Pressure	2 bar
Design Pressure	200 bar
Test pressure	300 bar
Connection	G 1/2"
Power source	400 VAC / 3A or 24 VDC / 10 A
Protection	IP65



2 According to the Pressure Equipment Directive (97/23/EC)

3 According to Low voltage directive 2014/35/EU

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL

ALL RIGHTS OF CHANGE RESERVED

## ELECTRIC DIRECTIONAL VALVE

Valve and actuator assembly to isolate separate protection zones from the same cylinder rack.

Includes valve + bracket + motor.

Permits discharge only in the zone with the fire.



### KEY FEATURES

- Available in Carbon Steel or Stainless Steel versions
- Choice of 5 diameters: 1"/1,5"/2"/2,5"/3"
- 2-way ball valve
- User-defined installation position and flow-direction
- Output of 2 limit switches
- Electronic over-torque protection
- LED status indication
- Plugs with ISO440 and C192
- IP 67



Can only operate without pressure load



Product code - Carbon steel	B05511000	B05511100	B05511200	B05511300	B05511400	B05511500
Product code - Stainless Steel	B05511001	B05511101	B05511201	B05511301	B05511401	B05511501
Size	1"	1,5"	2"	2,5"	3"	4" (flange)
DN	25	40	50	65	80	100
Unit nominal pressure (@20°C)	300 bar	300 bar	300 bar	300 bar	300 bar	300 bar
Voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Consumption at max. torque	800 mA/19W	1200 mA/28W	1200 mA/28W	1210 mA/29W	1210 mA/29W	1780 mA/43W
Operating time 90°	10 sec	10 sec	10 sec	14 sec	14 sec	34 sec
Duty rate	75%	75%	75%	75%	75%	75%
Temperature range carbon steel	-20° C to 100° C	-20° C to 100° C	-20° C to 100° C	-20° C to 100° C	-20° C to 100° C	-20° C to 100° C
Temperature range stainless steel	-30° C to 100° C	-30° C to 100° C	-30° C to 100° C	-30° C to 100° C	-30° C to 100° C	-30° C to 100° C
Weight	8 kg	11,9 kg	13,1 kg	38,9 kg	48,9 kg	75,2 kg
Seal material	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR
Length	207 mm	196mm	200mm	225 mm	204 mm	258 mm
Height	292 mm	323 mm	329 mm	440,5 mm	456 mm	555 mm
Width	110 mm	116 mm	122 mm	187 mm	241 mm	200 mm
Pipe Connector length	168 mm	167 mm	175 mm	212 mm	239 mm	200 mm

2 According to the Pressure Equipment Directive (97/23/EC)

## PNEUMATIC DIRECTIONAL VALVE

Pneumatic or manual actuation.

Valve and actuator assembly to isolate separate protection zones from the same cylinder rack.

Includes valve + bracket + pneumatic actuator + manual wrench.

Permits discharge only in the zone with the fire.

### KEY FEATURES

- Choice of 5 diameters: 1"/1,5"/2"/2,5"/3"
- 2-way ball valve
- User-defined installation position and flow-direction
- Stainless steel ball valve with carbon steel housing
- Status indication
- IP 67



Product code - Carbon steel	B05511050	B05511150	B05511250	B05511350	B05511450	B05511550
Size	1"	1,5"	2"	2,5"	3"	4"
DN	25	40	50	65	80	100
Unit nominal pressure (@20°C)	140 bar	140 bar	140 bar	140 bar	140 bar	140 bar
Actuation pressure	8 bar +/- 2 bar	8 bar +/- 2 bar	8 bar +/- 2 bar	8 bar +/- 2 bar	8 bar +/- 2 bar	8 bar +/- 2 bar
Actuation medium	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>
Pilot pressure	6-10 bar	6-10 bar	6-10 bar	6-10 bar	6-10 bar	6-10 bar
Temperature range stainless steel	-20° C to 50° C	-20° C to 50° C	-20° C to 50° C	-20° C to 50° C	-20° C to 50° C	-20° C to 50° C
Weight	7 kg	12 kg	14 kg	70 kg	88 kg	107 kg
Seal material	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR
Length	209 mm	221mm	221mm	298 mm	298 mm	310 mm
Height	371,5 mm	433 mm	447 mm	583,5 mm	600 mm	800 mm
Width	110,5 mm	120 mm	120 mm	137 mm	137 mm	310 mm
Pipe Connector length	113 mm	130 mm	140 mm	220 mm	226 mm	200 mm

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

2 According to the Pressure Equipment Directive (97/23/EC)

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL

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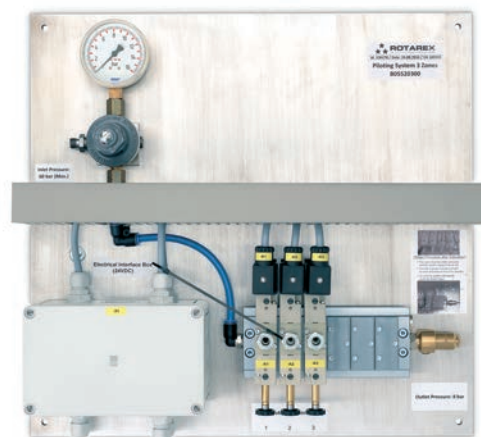
## CONTROL PANEL FOR PNEUMATIC DIRECTIONAL VALVES

Wall-mounted switching panel to control directional valve position. Sends a signal to open the directional valve in the zone with a fire.



### KEY FEATURES

- Available in multiple versions from 2 to 15 zones protection
- For UL, tamper evident seal 028000358 must be used to seal the electrical control box after installation (to be ordered separately)
- Hose B06920212 included



Protection Zones	Product code	Dimensions (LxH)
2	B05520200	470 x 450
3	B05520300	470 x 450
4	B05520400	470 x 450
5	B05520500	470 x 450
6	B05520600	470 x 450
7	B05520700	700 x 450
8	B05520800	700 x 450
9	B05520900	700 x 450
10	B05521000	700 x 450
11	B05521100	700 x 450
12	B05521200	940 x 450
13	B05521300	940 x 450
14	B05521400	940 x 450
15	B05521500	940 x 450

### SPECIFICATIONS

<b>Connection thread</b>	G1/4"	<b>Operating temperature</b>	-20°C to 50°C	<b>Nominal voltage</b>	24 VDC
<b>Maximum inlet pressure</b>	60 bar	<b>Inlet connection for hi-flex hose</b>	1/4"	<b>Operating medium</b>	IG01, IG100, IG55, IG541
<b>Outlet operating pressure</b>	8 bar				

## VDS CONTROL PANEL FOR PNEUMATIC DIRECTIONAL VALVES

with integrated time delay and pneumatical horn connection

Wall-mounted switching panel to control directional valve position. Sends a signal to open the directional valve in the zone with a fire. Delay the system discharge and actuates a pneumatical horn for room evacuation

### KEY FEATURES

- Available in multiple versions from 2 to 5 zones protection
- Pneumatical time delay included (adjustable up to 100s)
- Connection for pneumatical horn
- Backup cylinder battery connection option available
- Hose B06920212 included
- Nominal voltage: 24VDC



Article	Number of zones	Dimensions (HxWxD)	Connection for back up cylinders	Max inlet pressure	Outlet pressure
B05520210	2	1000 x 800 x 300	Yes	300 bar	10 bar
B05520310	3	1000 x 800 x 300	Yes		
B05520410	4	1000 x 800 x 300	Yes		
B05520510	5	1000 x 800 x 300	Yes		
B05520215	2	800 x 800 x 300	No		
B05520315	3	800 x 800 x 300	No		
B05520415	4	800 x 800 x 300	No		
B05520515	5	800 x 800 x 300	No		

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL

## VDS CONTROL PANEL FOR PNEUMATIC DIRECTIONAL VALVES

Wall-mounted switching panel to control directional valve position. Sends a signal to open the directional valve in the zone with a fire.



### KEY FEATURES

- Available in multiple versions from 2 to 5 zones protection
- Backup cylinder battery connection option available
- Hose B06920212 included
- Nominal voltage: 24VDC



Article	Number of zones	Dimensions (HxWxD)	Connection for back up cylinders	Max inlet pressure	Outlet pressure
B05520225	2	1000 x 800 x 300	Yes	300 bar	10 bar
B05520325	3	1000 x 800 x 300	Yes		
B05520425	4	1000 x 800 x 300	Yes		
B05520525	5	1000 x 800 x 300	Yes		
B05520230	2	800 x 800 x 300	No		
B05520330	3	800 x 800 x 300	No		
B05520430	4	800 x 800 x 300	No		
B05520530	5	800 x 800 x 300	No		

## PNEUMATICAL TIME DELAY

Delay the system discharge and actuates a pneumatical horn for room evacuation.



### KEY FEATURES

- Adjustable up to 100s
- Connection for pneumatical horn
- Non electrical blocking device included to avoid unintentional operation of directional valves during maintenance
- Hose B06920212 included
- Nominal voltage: 24 VDC



Product code	Number of zones	Dimensions (LxH)	Max inlet pressure	Outlet pressure
B05520120	1	500 x 400 x 200	300 bar	10 bar

# PNEUMATIC HORN

Gives a warning signal for room evacuation before the extinguishing system discharge

KEY FEATURES

- Works in combination with ROTAREX time delay
- 2 sound levels available: 95 or 130 dB
- Max working pressure : 10 bar



Flow aperture 024400161 must be installed during operation of Pneumatic Horn with p>3bar



IN PROGRESS

Product code	Lenght (mm)	Sound pressure	Connection
B07850049	231	95 dB	G ¼ (female)
B07850050	231	130 dB	G ¼ (female)

# BLOCKING DEVICE FOR PNEUMATIC DIRECTIONAL VALVES

To avoid unintentional operation of directional valves during maintenance.  
  
Mandatory for VdS installations.

KEY FEATURES

- Easily installs between control panel and directional valve
- Can be locked with a padlock to prevent unintentional
- Two easy-to-read switch positions (open or closed)
- One for each directionnal valve



With included padlock



Product code	B05512000
Max operating pressure	10 bar
Material	24HA
Outlet thread	G ¼"/DN6
Voltage	24 VDC

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014  
\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL



## DISCHARGE NOZZLES | PRE-ASSEMBLED

Pre-bored and fully assembled discharge nozzles for CO<sub>2</sub> systems.

For faster and easier installation.



### KEY FEATURES

- Max. working pressure 300 bar
- Material: brass
- Special orifice diameters available on request



Size of thread	Product code	Orifice Diameter	Product code	Orifice Diameter
R1/2"	B04611100	3 mm	B04611108	3,5 mm
	B04611101	4 mm	B04611109	4,5 mm
	B04611102	5 mm	B04611110	5,5 mm
	B04611103	6 mm	B04611111	6,5 mm
	B04611104	7 mm	B04611112	7,5 mm
	B04611105	8 mm	B04611113	8,5 mm
R3/4"	B04611106	9 mm	B04611114	9,5 mm
	B04611200	7 mm	B04611208	7,5 mm
	B04611201	8 mm	B04611209	8,5 mm
	B04611202	9 mm	B04611210	9,5 mm
	B04611203	10 mm	B04611211	10,5 mm
	B04611204	11 mm	B04611212	11,5 mm
R1"	B04611205	12 mm	B04611213	12,5 mm
	B04611206	13 mm	B04611214	13,5 mm
	B04611317	9 mm	B04611318	9,5 mm
	B04611300	10 mm	B04611309	10,5 mm
	B04611301	11 mm	B04611310	11,5 mm
	B04611302	12 mm	B04611311	12,5 mm
R1 1/2"	B04611303	13 mm	B04611312	13,5 mm
	B04611304	14 mm	B04611313	14,5 mm
	B04611305	15 mm	B04611314	15,5 mm
	B04611306	16 mm	B04611315	16,5 mm
	B04611307	17 mm	B04611316	17,5 mm
	B04611400	15 mm	B04611412	15,5 mm
	B04611401	16 mm	B04611413	16,5 mm
	B04611402	17 mm	B04611414	17,5 mm
	B04611403	18 mm	B04611415	18,5 mm
	B04611404	19 mm	B04611416	19,5 mm
	B04611405	20 mm	B04611417	20,5 mm
	B04611406	21 mm	B04611418	21,5 mm
	B04611407	22 mm	B04611419	22,5 mm
	B04611408	23 mm	B04611420	23,5 mm
	B04611409	24 mm	B04611421	24,5 mm
	B04611410	25 mm	B04611422	25,5 mm

## DISCHARGE NOZZLES | SELF-ASSEMBLY KIT

Discharge nozzles where you drill the orifice to your required orifice diameter and assemble yourself.

Easier to stock. A more economical alternative.

### KEY FEATURES

- Max. working pressure 300 bar
- Material: brass



Size of thread	Product code	Orifice Diameter	Maximum bore diameter
R1/2"	B04610100	3	up to 9,5 mm
R3/4"	B04610200	7	up to 13,5 mm
R1"	B04610300	10	up to 17,5 mm
R1 1/2"	B04610400	15	up to 25,5 mm

\*Marked products are part of UL listed system when configured in accordance with NFPA12 and UL

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1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014

CYLINDER MOUNTING BRACKETS - SINGLE ROW

Wall mounting rail, cylinder clamps and end caps parts to mount 20kg -30kg - 50kg cylinders to the wall.

KEY FEATURES

- Galvanized steel components for solid support and a long service lifetime
- Wall mounting rail available in multiple lengths to accommodate between 1 – 5 cylinders
- Multiple brackets can be used for more than 5 cylinders



1  
WALL MOUNTING RAIL

Input	Length L	Product code
1 cylinder	400 mm	024900311
2 cylinders	645 mm	024900312
3 cylinders	940 mm	024900313
4 cylinders	1240 mm	024900314
5 cylinders	1535 mm	024900315

2  
CLAMP FOR CYLINDER

Fits cylinder size	Product code
20kg - 30kg	024900424
50kg	024900321

3  
END CAP FOR MOUNTING RAIL AND BRACKET

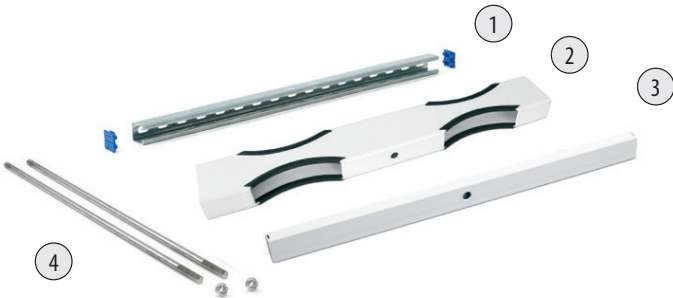
Product code
024900322

CYLINDER MOUNTING BRACKETS - DOUBLE ROW

Brackets to secure a doublerow of 20kg -30kg or 50kg cylinders.

KEY FEATURES

- Powder coated in white
- Edges protected with rubber to avoid damage to the cylinders
- Available in two sizes for 2 or 3 cylinders
- Bracket length: 575 mm for 2 cylinders or 880 mm for 3 cylinders



1  
WALL MOUNTING RAIL

Product code
2 cylinders 024900312
3 cylinders 024900313

2  
MIDDLE BRACKET

Product code
2 cylinders 022730012
3 cylinders 022730014

3  
OUTER BRACKET

Product code
2 cylinders 022730013
3 cylinders 022730015

4  
BOLTS & NUTS KIT

Product code
Mounting kit 029930028

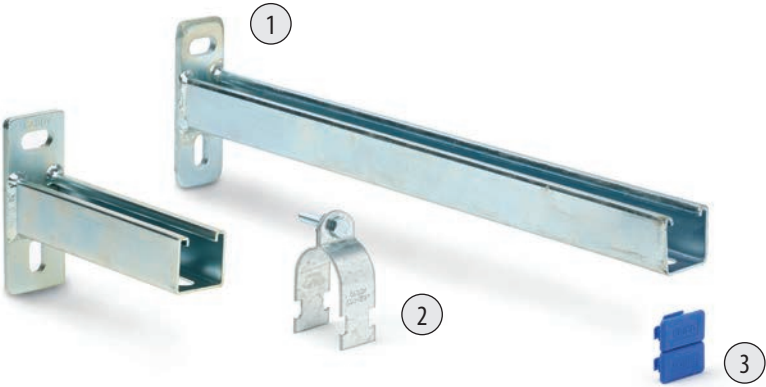
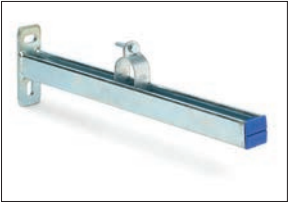


# MANIFOLD MOUNTING BRACKETS

System of brackets, clamps and end caps to mount manifolds to the wall.

KEY FEATURES

- Galvanized steel components for solid support and a long service lifetime
- Manifold clamps available in 2" diameters.



1

BRACKET FOR MANIFOLD

	Length A	Product code
Single row	205 mm	B05805000
Double row	505 mm	B05805001

2

CLAMP FOR MANIFOLD

Diameter	Product code
2"	B05805004

3

END CAP FOR MOUNTING RAIL AND BRACKET

Product code
024900322



Rotarex highly recommends the DIMES system option to enhance productivity and ensure system readiness. DIMES electronically measures the cylinder CO<sub>2</sub> level in real-time – so you have more confidence that the system is armed and ready – and it significantly simplifies annual maintenance.



DIMES valves contain a micro chip that permits calibration of the system to the cylinder of valves. A calibration unit is required



## DIMES ACCESSORIES



### Control alarm box

Indicates that system is properly armed and sounds audio alarm when the system actuates. Compatible with any control box.



### Calibration unit

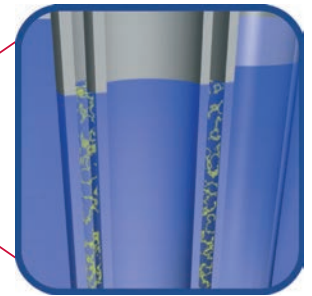
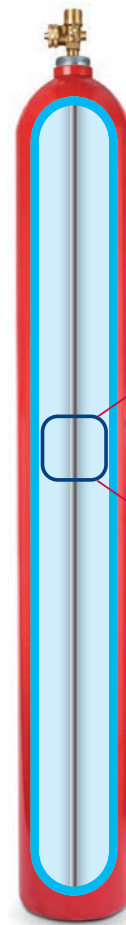
Calibrates the valve to the cylinder using a built-in computer chip



### Monitoring switch

recommended to:

- monitor system status
- transmit alarm signals
- send an electronic shut-down signal



### How it works :

Digitally measures the capacitance of the sensor, i.e dielectric properties of the product between two sensor probes (electrodes).

## Technical characteristics of DIMES - electronic

Supply voltage	6 to 30 VDC	
Temperature range	- 20°C to + 60°C	
Alarm level	80 % (configurable)	
Max. switching power	20 W	
Max. contact rating	0,4 A	
Max. switching voltage	50 V	
Sealed housing	IP 67	
Max. dissipation rating	6 mA	
Max. dissipation power	12 VDC	24 VDC
	72 mW	144 mW



## FLEXIBLE CONFIGURATION OPTIONS

DIMS sensor units are available in single and multi- connection versions – connecting either a single cylinder or multiple cylinders in series.

### SINGLE CYLINDER



DIMS valve + control box connection cable

### MULTIPLE CYLINDERS



DIMS valve + multiple cylinder connector cable + control box connection cable + end connector

## WARNING LABEL SETS

- Assembly number
- Weight information
- Tare weight
- Agent weight
- Gross weight
- Installation instruction



Article number	028000368
Key features	Self-adhesive
Dimensions	150x174 mm



Article number	028000410
Key features	Self-adhesive
Dimensions	248x170 mm

## B0480 DIMES CYLINDER/VALVE ASSEMBLIES

A complete cylinder/valve assembly. Includes:

- $\pi$  marked seamless steel cylinder in choice of sizes
- B0480 cylinder valve with DIMES
- Protection cap

### KEY FEATURES

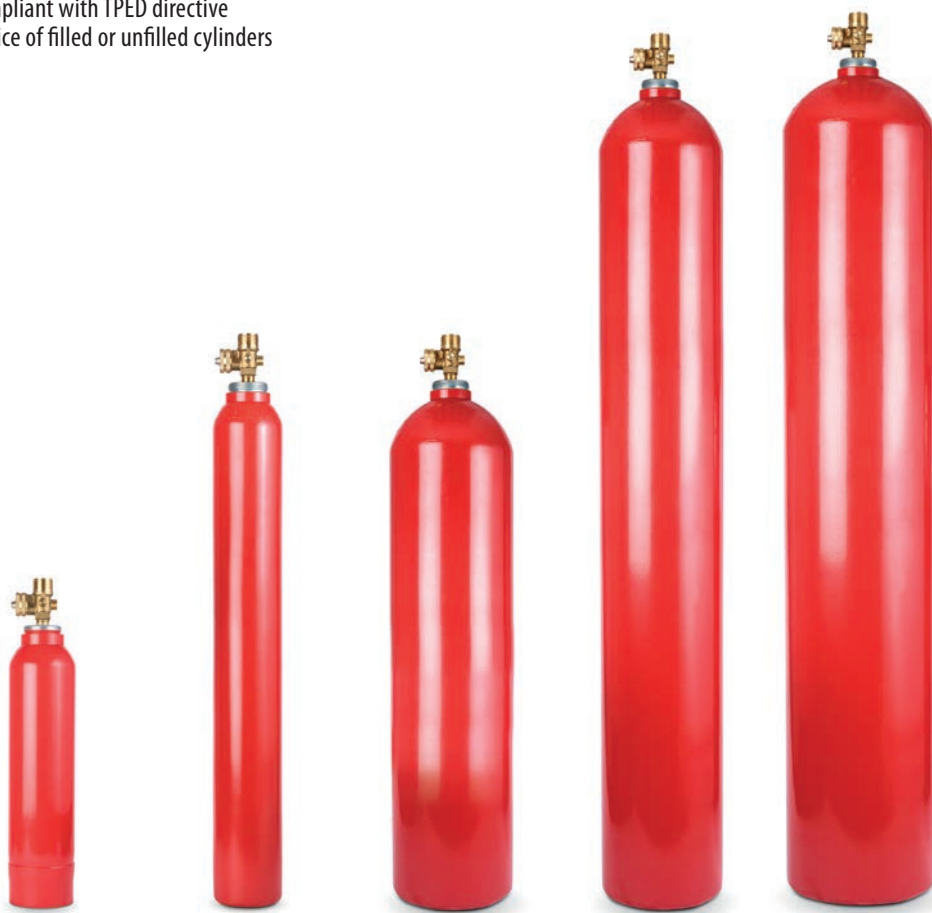
- Improves productivity: cylinder/valves arrive pre-assembled
- Compliant with TPED directive
- Choice of filled or unfilled cylinders



- Specific electrodes adapted to corresponding cylinder length.
- Custom length available on request



Delivered with metal or plastic cap acc to ISO 11117



	5 Kg.	10 Kg.	20 Kg.	30 Kg.	50 Kg.
Product code unfilled	B04805002	B04805003	B04805004	B04805005	B04805006
Product code filled	B04805502	B04805503	B04805504	B04805505	B04805506
Max. working pressure	250 bar	250 bar	250 bar	250 bar	250 bar
Total length	725 mm	1220 mm	1186 mm	1653 mm	1671 mm
Diameter	Ø140 mm	Ø140 mm	Ø204 mm	Ø204 mm	Ø267 mm
Guard material	Plastic	Plastic	Plastic	Steel	Steel

## B0439 DIMS CYLINDER/VALVE ASSEMBLIES

A complete cylinder/valve assembly.

Often used as a pilot cylinder for liquid-based systems or for smaller installations using a single cylinder.

Includes:

- π marked seamless steel cylinder in choice of sizes
- B0439 cylinder valve with DIMS
- Protection cap

### KEY FEATURES

- Improves productivity: cylinder/valves arrive pre-assembled
- DIMS system eliminates the need to weigh cylinders (see page 26)
- Compliant with TPED directive
- Choice of filled or unfilled cylinders

π



	5 Kg.	10 Kg.	30 Kg.	50 Kg.
<b>Product code unfilled</b>	B04395004	B04395000	B04395001	B04395002
<b>Product code filled</b>	B04395504	B04395500	B04395501	B04395502
<b>Max. working pressure</b>	250 bar	250 bar	250 bar	250 bar
<b>Operating temperature</b>	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
<b>Length w/ cap</b>	725 mm	732 mm	1642 mm	1672 mm
<b>Diameter</b>	Ø140 mm	Ø204 mm	Ø204 mm	Ø267 mm
<b>Guard material</b>	plastic	plastic	steel	steel
<b>Discharge type</b>	Total	Total	Total	Total
<b>Orifice size</b>	Ø7 mm	Ø7 mm	Ø7 mm	Ø7 mm
<b>Inlet connection</b>	25E EN-629-1	25E EN-629-1	25E EN-629-1	25E EN-629-1
<b>Outlet connection</b>	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477	W21,8x1/14" DIN 477
<b>Dip tube connection</b>	M 10 x 0,75	M 10 x 0,75	M 10 x 0,75	M 10 x 0,75
<b>Operating voltage</b>	24 V DC	24 V DC	24 V DC	24 V DC
<b>Power consumption</b>	10 Watt	10 Watt	10 Watt	10 Watt
<b>Burst disc pressure</b>	250 bar	250 bar	250 bar	250 bar
<b>Valve body</b>	Brass	Brass	Brass	Brass

## B0439 DIMES - SPECIAL GAS PHASE

A complete cylinder/valve assembly.

- Special DIMES Cylinder/valve assembly designed to discharge only the gaseous phase of CO<sub>2</sub>.

Includes:

- π marked seamless steel cylinder in choice of sizes  
- B0439 cylinder valve with DIMES for gas discharge  
- Protection cap

π



Pneumatic horn p.22

### KEY FEATURES

- Can be used as pilot cylinder with pneumatic horn and time delay to discharge only gaseous phase of CO<sub>2</sub> and avoid discharging liquid CO<sub>2</sub> from the horn.
- Improves productivity: cylinder/valves arrive pre-assembled
- DIMES system eliminates the need to weigh cylinders (see page 26)
- Compliant with TPED directive
- Choice of filled or unfilled cylinders



Product code unfilled	B04395014
Product code filled	B04395506
Agent capacity	2 Kg
Cylinder volume	2,7 liters
Cylinder approval	CE
Cyl. / valve weight (empty)	7,4 Kg
Height	626 mm
Diameter	Ø 108 mm
Siphon tube	Yes
Operating temperature	-20°C to 60°C
Voltage	24V

## DIMS CALIBRATION UNIT

Digital display and calibration device for DIMS digital measurement system.

See p.26 for details



Product code | B07850200

### KEY FEATURES

- Calibrates valve to cylinder and saves data via a built-in microchip
- Digital display can also be used to monitor system

## DIMS CONNECTOR CABLES

To connect the DIMS valve to a DIMS Alarm box.



	SINGLE CYLINDER	TWO CYLINDERS	THREE CYLINDERS
Product code	029900088	029900079	029900080
Pins	8-pin	8-pin	8-pin
Cable length	2000 mm	500 mm between cylinder	500 mm between cylinder



	FOUR CYLINDERS	EIGHT CYLINDERS	END CONNECTOR	CONTROL BOX CABLE
Product code	029900081	029900082	029900083	029900089
Pins	8-pin	8-pin	4-pin	4-pin
Cable length	500 mm between cylinder	500 mm between cylinder	-	2000 mm

## NOTES



## NOTES

[illegible]

# A FULL LINE OF GAS CONTROL SOLUTIONS



## COMPLETE SOLUTIONS FROM SOURCE TO PROCESS.

ROTAREX is helping engineers worldwide to get better gas results: from ultra high purity production and medical care facilities to industrial and LPG applications, as well as alternative energy vehicles, fire suppression, diving, aerospace, cryogenics, laboratory, petro-chemical and welding. ROTAREX applies almost 100 years of know-how and experience to custom design, develop and manufacture the high performance valves, regulators and fittings to suit your needs, all in one hand. Discover the difference ROTAREX can make in your world.

**CYLINDER VALVES**

**EQUIPMENT**

**FIRETEC**

**AUTOMOTIVE**

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**ULTRA HIGH PURITY VALVES**



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**FITTINGS & ADAPTORS**



**FIXED INSTALLATION  
FIRE SYSTEMS**



**OBJECT FIRE SUPPRESSION  
SYSTEMS**



**AUTOMOTIVE VALVES  
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**WATER CARBONATION**



**LPG TANK VALVES  
& REGULATORS**



**LPG CYLINDER VALVES  
& REGULATORS**



**DIGITAL MEASUREMENT  
SYSTEMS**



**PLASTIC INJECTION MOULDING**

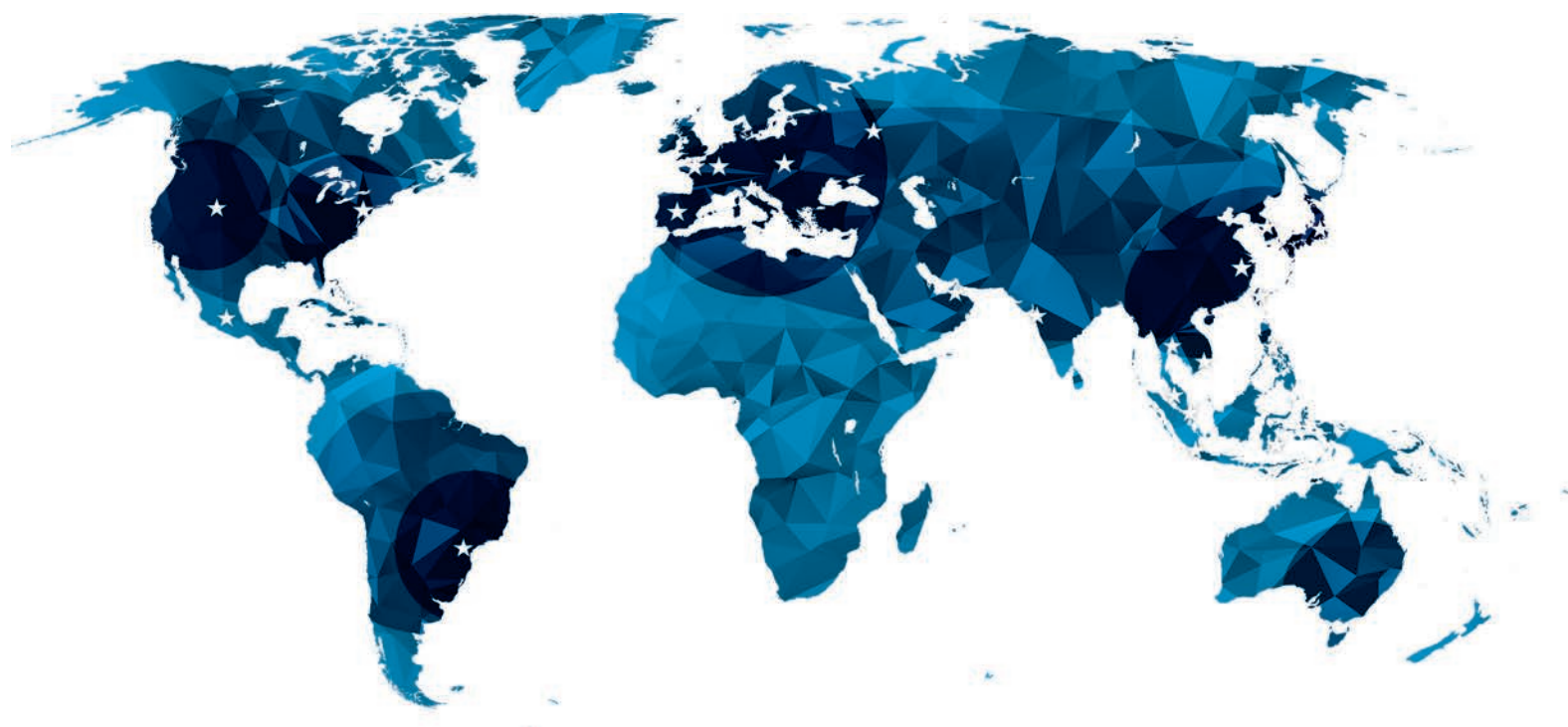


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