



PRO_CO2 FIRE SUPPRESSION SYSTEMS



ALL THE COMPONENTS FOR A COMPLETE CO₂ SYSTEM

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

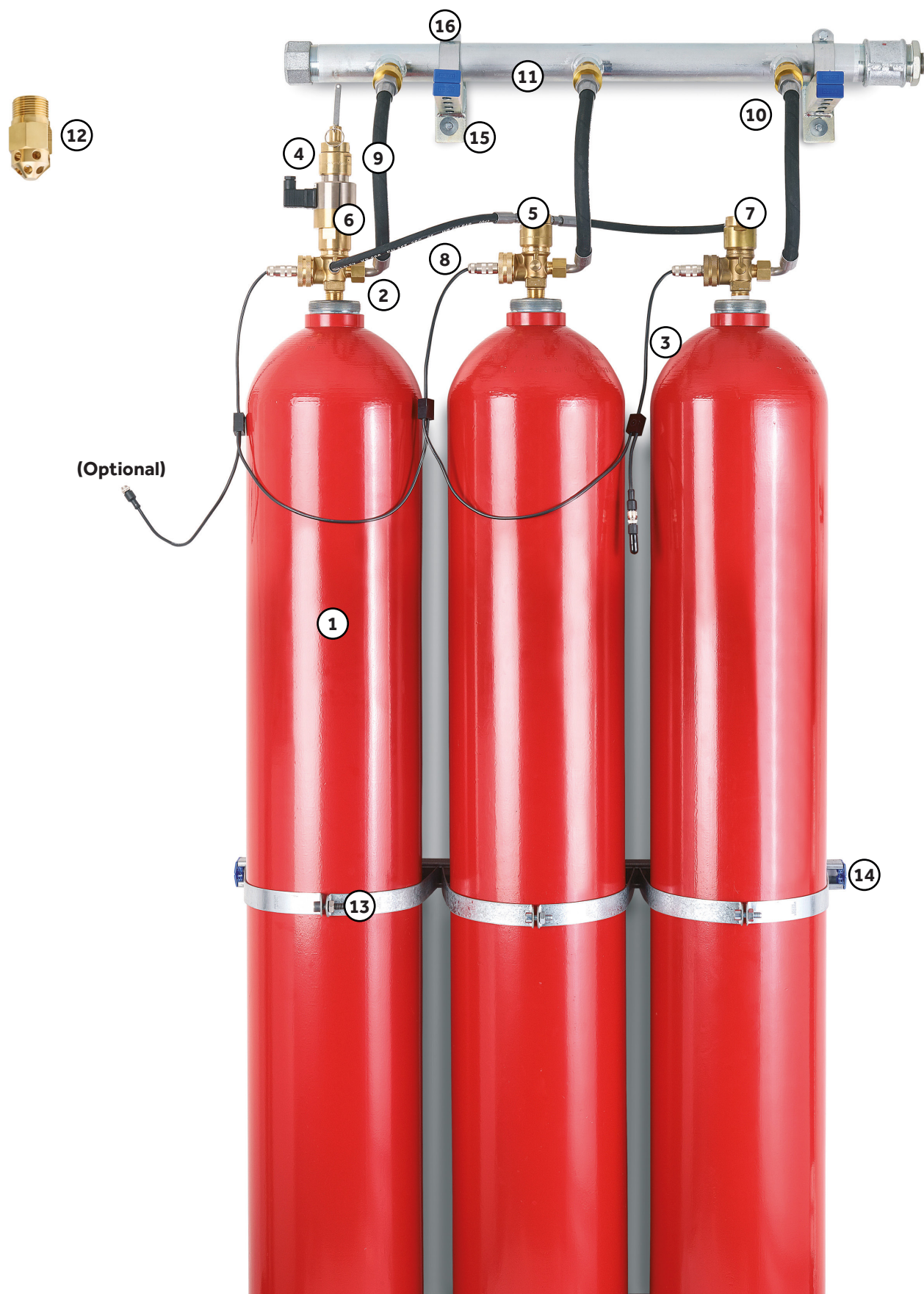
- Components entirely compatible and interchangeable
- Easier and faster installation - No "bad surprises"
- Everything to the same high-specification
- Greater confidence in performance at the critical time
- Full warranty protection
- Simplicity of a single supplier

Protek 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 Protek components to configure the entire system.

A complete component solution

- 1 - Cylinder with DIMES (Optional)
- 2 - Valve
- 3 - Multiple cylinder cable connector (Optional)
- 4 - Manual release device
- 5 - Pneumatic release device
- 6 - Electromagnetic release device
- 7 - Bleed valve
- 8 - Pilot hose
- 9 - Discharge hose
- 10 - Check Valve
- 11 - Manifold
- 12 - Nozzle
- 13 - Clamp for Cylinder
- 14 - Wall Mounting Rail
- 15 - Bracket for manifold
- 16 - Clamp for manifold



SERIES B0480 VALVES FOR CO₂ SYSTEMS



CYLINDER/VALVE ASSEMBLIES



CYLINDER/VALVE ASSEMBLIES



DIMS ACCESSORIES

ACTUATION DEVICES & ACCESSORIES



MANUAL ACTUATORS



MANUAL/PNEUMATIC ACTUATORS



PNEUMATIC ACTUATORS



ELECTROMAGNETIC ACTUATORS



RESET TOOL



MONITORING SWITCH



BLEED VALVE



PILOT HOSES

DISCHARGE HOSES, MANIFOLDS & ACCESSORIES



DISCHARGE HOSES



CHECK VALVES



ELECTRICAL DIRECTIONAL VALVES



PNEUMATIC DIRECTIONAL VALVES



BLOCKING DEVICE

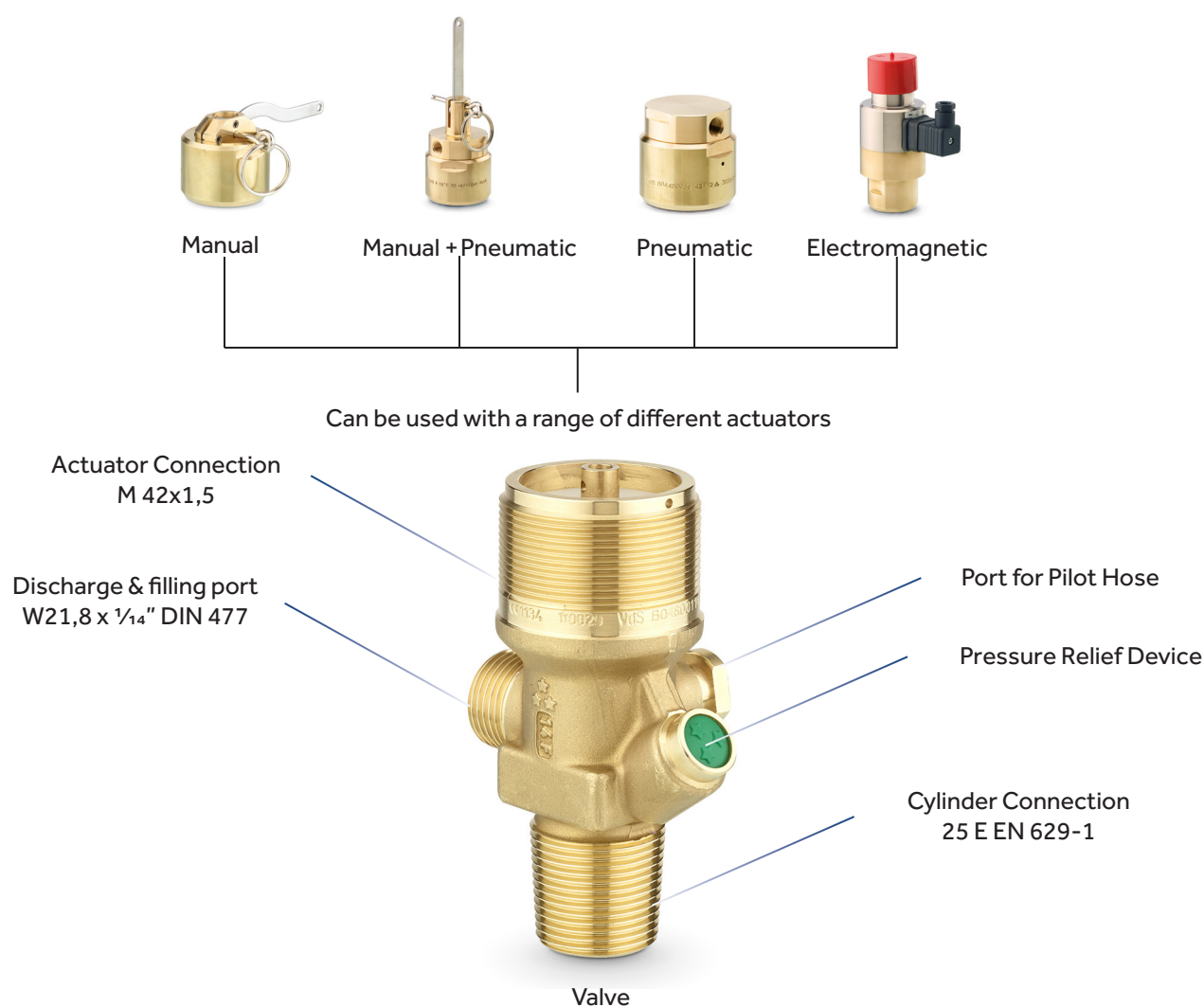
VALVE TECHNOLOGIES

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. PROCO₂ System uses Rotarex Valves



SERIES B0480



SPECIFICATIONS

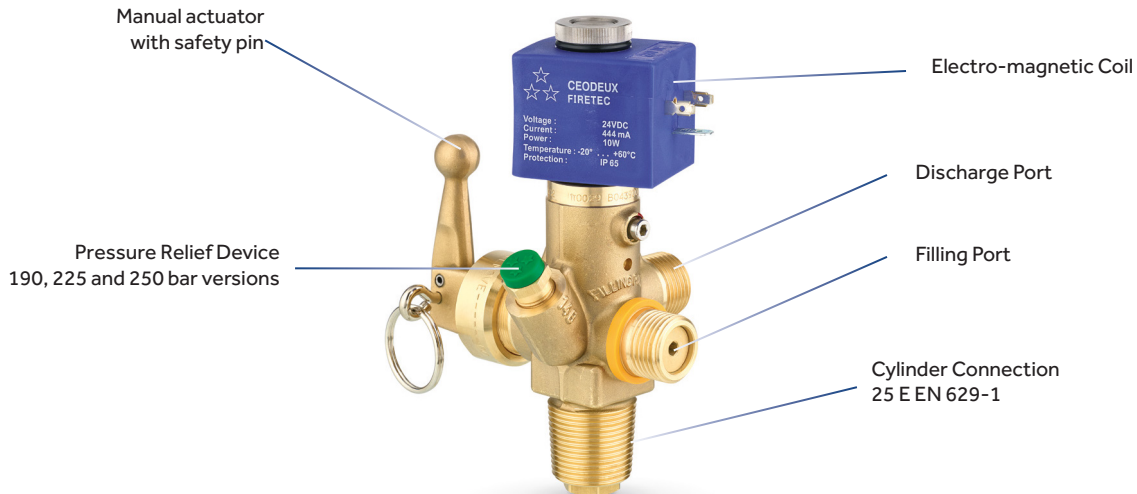
Max. Working Pressure: 250 Bar	Seat orifice size: 12mm	Temperature range: -20°C to +60°C
Valve Body: Brass	Outlet port: W21,8 x 1/4" DIN 477	Burst disc pressure: 250 bar versions. Other burst pressures on request



VALVE TECHNOLOGIES

SERIES B0439

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



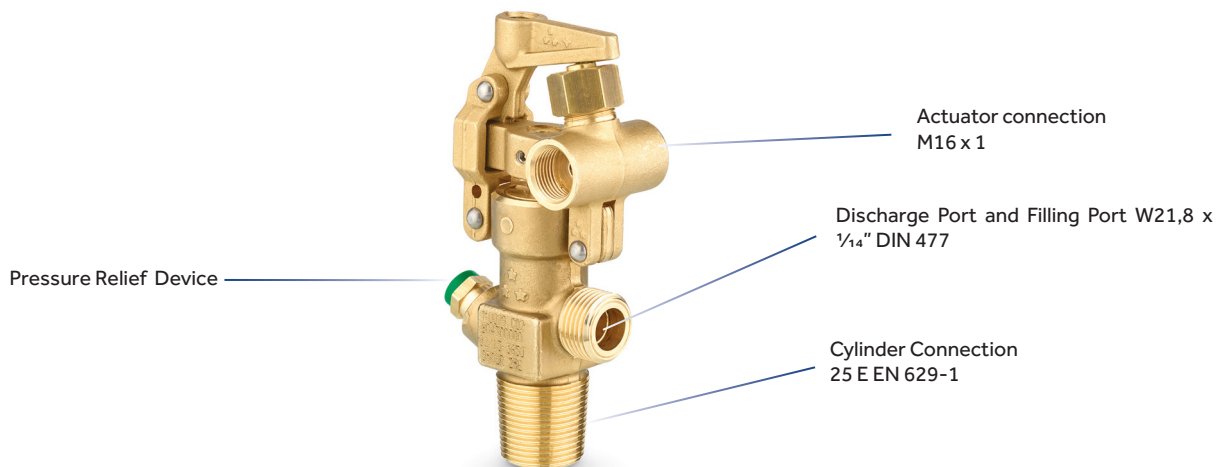
SPECIFICATIONS

Max. Working Pressure: 250 Bar	Seat orifice size: 7 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

.Power consumption: 10 Watt

SERIES B0430

200 bar Valve with manual and pneumatic actuation. Ideal for marine applications



SPECIFICATIONS

Max. Working Pressure: 250 Bar	Seat orifice size: 12 mm	Temperature range: -20°C to +60°C
Valve Body: Brass	Outlet port: W 21,8 x 1/4"	Burst disc pressure: 190 or 250 bar
.Power consumption: 10 Watt	Filling port: W 21,8 x 1/4"	Max. filling factor: 0,75 Kg/l

RELEASE DEVICES

Devices to actuate the release of extinguishing agent.

For use with Series B0481, B0482 and B0480 Valves.



	Manual	Manual / Pneumatic		Pneumatic	
Product Code	B04420100	B04420065	B04420116	B04420066	B04420076
Technology	Single Piston	Single Piston	Single Piston	Single Piston	Single 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	050	050	050	050	050

ELECTROMAGNETIC RELEASE DEVICES

Device to electrically actuate the release of extinguishing agent.

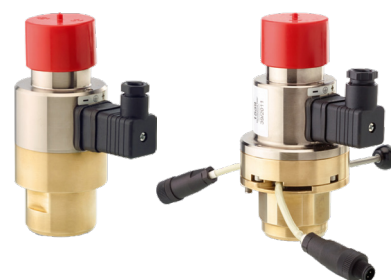
For use with Series B0481, B0482 and B0480 Valves.

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



	B04425131	B04425132	B04425109	B04425129
	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	135 mm	135 mm	135 mm	135 mm
Diameter	0 65 mm	0 65 mm	0 80 mm	0 80 mm



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



MONITORING SWITCH

Monitors that the actuator is properly in place to actuate the system.
Connects to the alarm box.
Mandatory according to NFPA 2001 Standard on Clean Agent Extinguishing systems – 2015 edition – (applicable for CO₂ system).

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
Description	Mounted on B0480 valve



BLEED VALVE

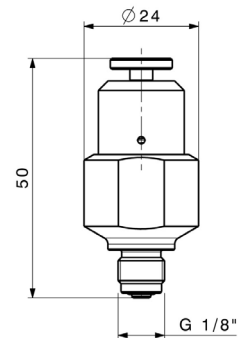
Monitors that the actuator is properly in place to actuate the system.
Connects to the alarm box.
Mandatory according to NFPA 2001 Standard on Clean Agent Extinguishing systems – 2015 edition – (applicable for CO₂ system).



Mounts on all pneumatic release devices



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



PILOT HOSES

Hose to connect multiple cylinders in a series.
Connects a master valve or a pneumatic actuator with an other pneumatic actuator.

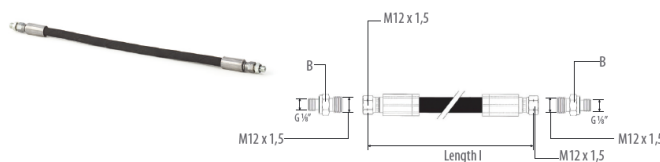


- Both ends have a straight fitting
- 400 bar working pressure
- With O-rings



Adapter must be ordered separately. 2 per hose.

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 3/8	

SPECIFICATIONS

Working pressure: 400 Bar

Temperature Range: -40°C to 100°C

Interior diameter: 1/8"

Burst pressure: 1600 bar

Material: Synthetic rubber oil

Norm: EN 857 2 SC

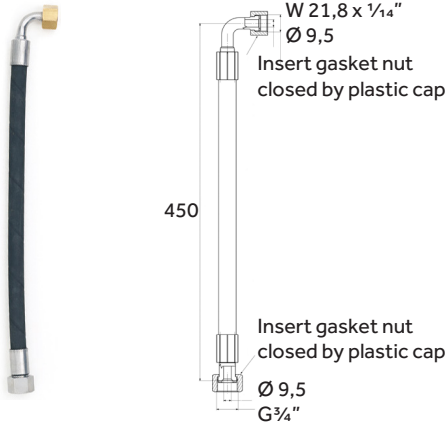
Torque: 20-25 Nm

DISCHARGE HOSES

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



Product Code	B06920226
Product code	Max. 380 bar
Working pressure	1520 bar
Burst pressure	-40°C to 100°C
Temperature range	38 - 42 Nm
Torque	Synthetic rubber oil
Material	EN853 2 SN
Norm	W21,8 x 1/14" DIN
Valve connection (inlet)	G 3/4"
Manifold connection (outlet)	130 mm



CHECK VALVE

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



Product code	B04600008
Inlet connection	G 3/4"
Outlet connection	R1"
Working pressure	< 360 bar
Material	Brass
Hex	42 mm



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"	1½"	2"	2½"	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	196 mm	200 mm	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	167 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	B05511050	B05511150	B05511250	B05511350	B05511450
Size	1"	1½"	2"	2½"	3"
DN	25	40	50	65	80
Nominal pressure	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
Actuation medium	N2	N2	N2	N2	N2
Temperature range	-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
Length	209 mm	221mm	221mm	298 mm	298 mm
Height	371,5 mm	433 mm	447 mm	583,5 mm	600 mm
Width	110,5 mm	120 mm	120 mm	137 mm	137 mm
Pipe Connector length	113 mm	130 mm	140 mm	220 mm	226 mm
Seal material	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR



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

SERIES B0439 VALVES FOR CO₂

Cylinder valves with integrated solenoid actuation for 60 bar CO₂ fire suppression systems.

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

Π CE¹

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



Total Discharge



Intermittent



Total Discharge ATEX approved

	Total Discharge		Intermittent		Total Discharge ATEX	
Product code Brass	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	W21,8x1/4" DIN 477	W21,8x1/4" DIN 477	W21,8x1/4" DIN 477	W21,8x1/4" DIN 477	W21,8x1/4" DIN 477	W21,8x1/4" 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	190 bar	250	190 bar	190 bar	250
Valve body	Brass	Brass	Brass	Brass	Brass	Brass

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

ELECTRIC DIRECTIONAL VALVE

Manual or Pneumatically-actuated valve for CO₂ fire suppression systems.
Ideal for marine applications.

KEY FEATURES

- Special connections available on request
- Other burst-disc pressures available on request



Product Code	B04300000	029740001
Discharge type	Total	-
Max. working pressure	250 bar	-
Orifice size	Ø12 mm	-
Inlet connection	25E EN-629-1	-
Outlet connection	W21,8x1/4" DIN 477	-
Actuator connection	G 3/8"	M10
Dip tube connection	M16 x 1	-
Burst disc pressure	250 bar	-
Valve Body	Brass	Polyamide / brass

Distributor:

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