



ROTAREX
FIRETEC



 **CLEANFIRE**

**FIRE SUPPRESSION SYSTEM
USING 3M™ NOVEC™ 1230
FIRE PROTECTION FLUID**

JULY 2019

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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.



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

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

3 VdS - approved components

4 Components part of VdS - approved system

5 Low voltage directive (LVD) (2014/35/EU)

COMPONENTS FOR A COMPLETE CLEANFIRE CLEAN AGENT SYSTEM

Rotarex Firetec designs and manufactures components needed to configure clean agent fire suppression system.



- 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 select a complete VdS approved fixed suppression system. Using Novec 1230 Fluid.

For maximum ease and certainty of performance, specify Rotarex for your entire system.

1	Cylinder valve	11	Nozzle
2	High pressure cylinder	12	Pressure gauge
3	Pneumatic release device	13	Tube (Manifold components)
4	Manual/pneumatic release device	14	Tee (Manifold compnents)
5	Electromagnetic release device	15	Cylinder protection cap
6	Bleed valve	16	Clamp for manifold
7	Pilot hose	17	Manifold mounting rail
8	Discharge hose	18	Clamp for cylinder
9	Check valve	19	Cylinder wall mounting rail
10	Label		



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.



B048 SERIES

Large-orifice clean agent valves with flexibility of actuation methods.
For all Clean Agent installations.
Integrated solenoid option available.



Can be used with a range of different actuators



B0481 SERIES
Ø49 mm ORIFICE



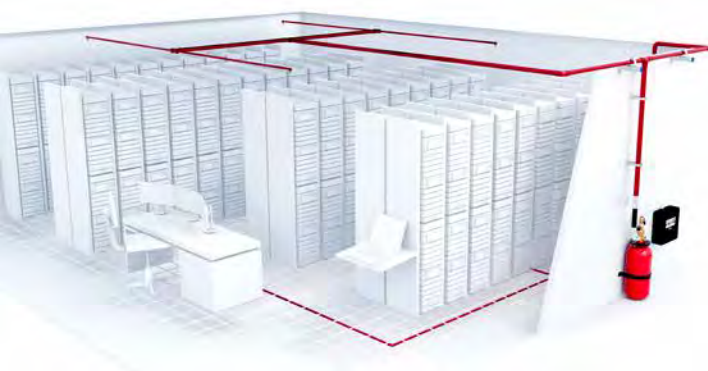
B0482 SERIES
Ø33 mm ORIFICE

SPECIFICATIONS

Working pressure	25 to 50 bar	Temperature range	-20°C to +60°C
Valve body	Brass	Burst disc pressure	40/50 bar or 88/89 bar

A COMPLETE VdS-CERTIFIED FIRE SUPPRESSION SYSTEM USING 3M™ NOVEC™ 1230 FIRE PROTECTION FLUID

Novec 1230 fluid offers a unique combination of safety, low environmental impact and excellent extinguishing performance. It is also ideal for special hazards fire protection making it the only chemical halon replacement to offer a viable, long-term, environmentally sustainable technology.



KEY BENEFITS

- ★ Choice from 30L to 180L cylinders
- ★ 25 or 50 bar working pressure
- ★ Filling ratio up to 1,2 kg/l
- ★ Space- efficient as less space needed for cylinder storage
- ★ Reduced cost for piping and maintenance
- ★ Fast discharge and effective suppression
- ★ No residue- nothing to clean
- ★ Safe for humans within the NOAEL limitation
- ★ Non-conductive electrically
- ★ Proven high quality valve technology

Novec 1230 fluid is a next-generation halon alternative offering outstanding performance, a large margin of safety, and an excellent environmental profile:

- Zero ozone depletion potential
- 5-day atmospheric lifetime
- Global warming potential <1

Novec 1230 Fluid is based on a proprietary chemical from 3M called a fluoroketone. The full chemical name for this compound is dodecafluoro-2-methylpentan-3-one. Its ASHRAE nomenclature – the way it is designated in the NFPA and ISO 14520 clean agent standards – is FK-5-1-12.

ABOUT VdS

VdS stands for Inspected. Approved. Safe. and is Europe's largest expert organization for fire protection. It is an independent institution which has been ensuring safety and trust in the fields of fire protection and security for many decades.

VdS develops advanced safety concepts for significant industrial and commercial enterprises, leading manufacturers and system businesses as well as specialist firms and independent specialists. Its experts assess more than 21.000 fire protection systems worldwide every year.



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CYLINDER/VALVES ASSEMBLIES



25 BAR WORKING PRESSURE P. 010



50 BAR WORKING PRESSURE P. 011

ACTUATION DEVICES & ACCESSORIES



MANUAL/PNEUMATIC ACTUATORS P. 012



PNEUMATIC ACTUATORS P. 012



ELECTROMAGNETIC ACTUATORS P. 013



PILOT HOSE P. 013



BLEED VALVE P. 013



PRESSURE GAUGES P. 014

DISCHARGE HOSES, NOZZLES & ACCESSORIES



DISCHARGE HOSES

P. 015



CHECK VALVES

P. 015



NOZZLES

P. 016



MANIFOLD TUBES & FITTINGS

P. 019



MANIFOLD BRACKETS

P. 019



CYLINDER MOUNTING PARTS

P. 020

OPTIONAL COMPONENTS



MONITORING SWITCH

P. 020



PRESSURE & FLOW DETECTOR SWITCH

P. 021



LABEL

P. 021

MULTIPLE ZONES PROTECTION ACCESSORIES



PNEUMATIC DIRECTIONAL VALVES

P. 022



BLOCKING DEVICE

For pneumatic directional valves

P. 022



CONTROL PANELS

For pneumatic directional valves

P. 023

25 BAR CYLINDER/VALVE ASSEMBLIES

A COMPLETE CYLINDER/ VALVE ASSEMBLY

- 30L to 180L cylinder for 25 bar working pressure
- B0481 or B0482 valves
- Steel protection cap included acc. ISO 11117

KEY FEATURES

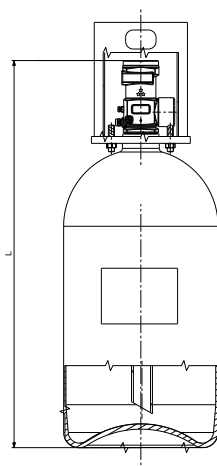
- Improves productivity: Cylinder/valves assemblies arrive pre-assembled
- VdS approved
- Systems are available either empty or filled with Novec 1230 Fluid. Contact us for filled product code

VdS⁴

Label included for filled cylinder only



Cylinder protection cap



	Without Integrated solenoid					
Product code unfilled	B04824000	B04824001	B04814000	B04814001	B04814002	B04814003
Cylinder Volume	30L	50L	80L	120L	140L	180L
Min Agent Qty	15kg	25kg	40kg	60kg	70kg	90kg
Max Agent Qty	36kg	60kg	96kg	144kg	168kg	216kg
Cylinder approval	π	π	π	π	π	π
Height	1008mm	1528mm	942mm	1272mm	1437mm	1767mm
Diameter	232	232	406	406	406	406
Cylinder/valve weight (empty)	55kg	74kg	95kg	118kg	129kg	151kg
Operating temperature	-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

	With Integrated solenoid					
Product code unfilled	B04824004	B04824005	B04814008	B04814009	B04814010	B04814011
Cylinder Volume	30L	50L	80L	120L	140L	180L
Min Agent Qty	15kg	25kg	40kg	60kg	70kg	90kg
Max Agent Qty	36kg	60kg	96kg	144kg	168kg	216kg
Cylinder approval	π	π	π	π	π	π
Height	1008mm	1528mm	942mm	1272mm	1437mm	1767mm
Diameter	232	232	406	406	406	406
Cylinder/valve weight (empty)	55kg	74kg	95kg	118kg	129kg	151kg
Operating temperature	-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

4 Components part of VdS - approved system

50 BAR CYLINDER/VALVE ASSEMBLIES

A COMPLETE CYLINDER/ VALVE ASSEMBLY

- 30L to 180L cylinder for 50 bar working pressure
- B0481 or B0482 valves
- Steel protection cap included acc. ISO 11117

KEY FEATURES

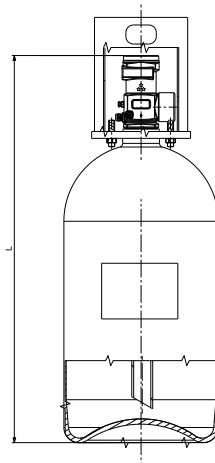
- Improves productivity: Cylinder/valves assemblies arrive pre-assembled
- VdS approved
- Systems are available either empty or filled with Novec 1230 Fluid. Contact us for filled product code

VdS⁴

Label included for filled cylinder only



Cylinder protection cap



	Without Integrated solenoid					
Product code unfilled	B04824002	B04824003	B04814004	B04814005	B04814006	B04814007
Cylinder Volume	30L	50L	80L	120L	140L	180L
Min Agent Qty	15kg	25kg	40kg	60kg	70kg	90kg
Max Agent Qty	36kg	60kg	96kg	144kg	168kg	216kg
Cylinder approval	π	π	π	π	π	π
Height	1008mm	1528mm	942mm	1272mm	1437mm	1767mm
Diameter	232	232	406	406	406	406
Cylinder/valve weight (empty)	55kg	74kg	95kg	118kg	129kg	151kg
Operating temperature	-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

	With Integrated solenoid					
Product code unfilled	B04824006	B04824007	B04814012	B04814013	B04814014	B04814015
Cylinder Volume	30L	50L	80L	120L	140L	180L
Min Agent Qty	15kg	25kg	40kg	60kg	70kg	90kg
Max Agent Qty	36kg	60kg	96kg	144kg	168kg	216kg
Cylinder approval	π	π	π	π	π	π
Height	1008mm	1528mm	942mm	1272mm	1437mm	1767mm
Diameter	232	232	406	406	406	406
Cylinder/valve weight (empty)	55kg	74kg	95kg	118kg	129kg	151kg
Operating temperature	-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

⁴ Components part of VdS - approved system

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RELEASE DEVICES

Devices to actuate the release of extinguishing agent.

For use with B0481 and B0482 Series valves.



	Manual / Pneumatic	Pneumatic
Product code	B04420065	B04420066
Technology	single piston	single piston
Max. pressure	300 bar	300 bar
Valve connection	M 42 x 1,5	M 42 x 1,5
Pneumatic connection	G 1/8"	G 1/8"
Actuation force / pressure	< 150 N / 20 bar	20 bar
Body material	Brass	Brass
Height	136,5	50
Diameter	Ø50	Ø50

ELECTROMAGNETIC RELEASE DEVICE

Device to electrically actuate the release of extinguishing agent.

For use with B0481 and B0482 Series 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

WITH BLOCKING DEVICE.

To temporarily unarm the system during maintenance



	B04425148	B04425149	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	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

3 VdS - approved components

4 Components part of VdS - approved system

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



Safety cap included



Screws into the base of B04425XXX electromagnetic release device

PILOT HOSES

Hose to connect multiple cylinders in a series.

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

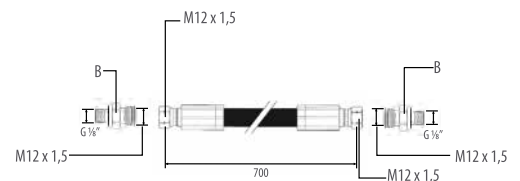


Each hose requires 2 adapters. Must be ordered separately.

STRAIGHT PILOT HOSE DN6



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



	Product code	Length l	Connection	Bending radius
	B06920213	500 mm	2 x M12 x 1,5	75 mm
	B06920212	700 mm	2 x M12 x 1,5	75 mm
	B06920232	1,000 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				

BLEED VALVE

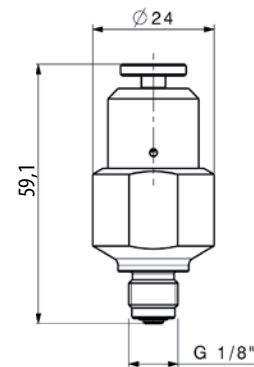
To vent overpressure and prevent false system discharge in the event of a small pressure leak from the cylinders into the pneumatic actuators.



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



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

3 VdS - approved components

4 Components part of VdS - approved system

PRESSURE GAUGES WITH PRESSURE SWITCH

Measures and displays the cylinder pressure to verify that cylinders are properly filled and charged.

For Novec 1230 Fluid.

Rear mounting for use with B048 Series valves.

- Integrated pressure switch.
- Choice of 0 to 40 bar or 0 to 100 bar.



Product code	029720171	029720251
Position	NC	NC
Preset pressure	22,5 bar	45 bar
Scale	0-40 bar	0-100 bar
Connection	Rear - 2 wires	Rear - 2 wires
Diameter	Ø 55 mm	Ø 55 mm
Valve connection	M 10 x 1	M 10 x 1

PRESSURE GAUGES

Measures and displays the cylinder pressure to verify that cylinders are properly filled and charged.

For Novec 1230 Fluid.

Rear mounting for use with B048 Series Valves.

- Choice of 0 to 60 bar or 0 to 100 bar.



Product code	029720232	029720120
Scale	0-60 bar	0-100 bar
Connection	Rear	Rear
Connection	No connection	No connection
Diameter	Ø 40 mm	Ø 40 mm
Valve connection	M 10 x 1	M 10 x 1

1 Compliant with the Construction Products Regulation (CPR) V3 Oct. 2014
3 VdS - approved components
4 Components part of VdS - approved system

DISCHARGE HOSES

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



FOR B0481 VALVE SERIES FOR 80L TO 180L CYLINDER



FOR B0482 VALVE SERIES FOR 30L TO 50L CYLINDER



Product code	B06920222	B06920221
Working pressure	53 bar	53 bar
Burst pressure	159 bar	159 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	EN853 2 SN	EN853 2 SN
Valve connection (inlet)	2 1/2" 12-UN	1 7/8" 12-UN
Manifold connection (outlet)	R 2"	R 1 1/2"
Min. bending radius	640 mm	510 mm
Length	550 mm	500 mm

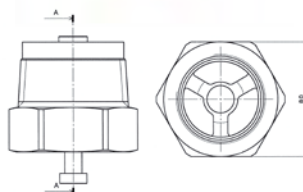
CHECK VALVE

Prevents backflow into the cylinder.

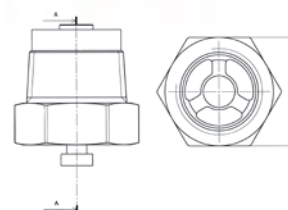
Required for each hose attachment to the discharge manifold.



FOR B0481 VALVE SERIES FOR 80L TO 180L CYLINDER



FOR B0482 VALVE SERIES FOR 30L TO 50L CYLINDER



Product code	B04600009	B04600010
Inlet connection	Rc 2"	Rc 1 1/2"
Outlet connection	R 2 1/2"	R 2"
Working pressure	53 bar	53 bar
Material	Brass	Brass
Hex	80 mm	65 mm

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

3 VdS - approved components

4 Components part of VdS - approved system

NOZZLES FOR NOVEC 1230 FLUID

Pre-bored and preassembled discharge nozzles for Novec 1230 Fluid fire suppression systems.

VdS^{3,4}

KEY FEATURES

- Available in 360° or 180° versions
- Solid Brass
- Max working pressure: 100 bar

360°



180°



360°				
Connection thread	Orifice Diameter (mm)	Article number	Orifice Diameter (mm)	Article number
R1½"	2,00	B04614100	2,80	B04614116
	2,05	B04614101	2,85	B04614117
	2,10	B04614102	2,90	B04614118
	2,15	B04614103	2,95	B04614119
	2,20	B04614104	3,00	B04614120
	2,25	B04614105	3,05	B04614121
	2,30	B04614106	3,10	B04614122
	2,35	B04614107	3,15	B04614123
	2,40	B04614108	3,20	B04614124
	2,45	B04614109	3,25	B04614125
	2,50	B04614110	3,30	B04614126
	2,55	B04614111	3,35	B04614127
	2,60	B04614112	3,40	B04614128
	2,65	B04614113	3,45	B04614129
	2,70	B04614114	3,50	B04614130
	2,75	B04614115		
R1"	3,40	B04614200	4,05	B04614213
	3,45	B04614201	4,10	B04614214
	3,50	B04614202	4,15	B04614215
	3,55	B04614203	4,20	B04614216
	3,60	B04614204	4,25	B04614217
	3,65	B04614205	4,30	B04614218
	3,70	B04614206	4,35	B04614219
	3,75	B04614207	4,40	B04614220
	3,80	B04614208	4,45	B04614221
	3,85	B04614209	4,50	B04614222
	3,90	B04614210	4,55	B04614223
	3,95	B04614211	4,60	B04614224
	4,00	B04614212	4,65	B04614225
R1¼"	5,90	B04614400	6,90	B04614420
	5,95	B04614401	6,95	B04614421
	6,00	B04614402	7,00	B04614422
	6,05	B04614403	7,05	B04614423
	6,10	B04614404	7,10	B04614424
	6,15	B04614405	7,15	B04614425
	6,20	B04614406	7,20	B04614426
	6,25	B04614407	7,25	B04614427
	6,30	B04614408	7,30	B04614428
	6,35	B04614409	7,35	B04614429
	6,40	B04614410	7,40	B04614430
	6,45	B04614411	7,45	B04614431
	6,50	B04614412	7,50	B04614432
	6,55	B04614413	7,55	B04614433
	6,60	B04614414	7,60	B04614434
	6,65	B04614415	7,65	B04614435
	6,70	B04614416	7,70	B04614436
	6,75	B04614417	7,75	B04614437
	6,80	B04614418	7,80	B04614438
	6,85	B04614419		

360°				
Connection thread	Orifice Diameter (mm)	Article number	Orifice Diameter (mm)	Article number
R1½"	7,75	B04614500	8,45	B04614514
	7,80	B04614501	8,50	B04614515
	7,85	B04614502	8,55	B04614516
	7,90	B04614503	8,60	B04614517
	7,95	B04614504	8,65	B04614518
	8,00	B04614505	8,70	B04614519
	8,05	B04614506	8,75	B04614520
	8,10	B04614507	8,80	B04614521
	8,15	B04614508	8,85	B04614522
	8,20	B04614509	8,90	B04614523
	8,25	B04614510	8,95	B04614524
	8,30	B04614511	9,00	B04614525
	8,35	B04614512	9,05	B04614526
	8,40	B04614513	9,10	B04614527
R2"	9,05	B04614600	10,20	B04614623
	9,10	B04614601	10,25	B04614624
	9,15	B04614602	10,30	B04614625
	9,20	B04614603	10,35	B04614626
	9,25	B04614604	10,40	B04614627
	9,30	B04614605	10,45	B04614628
	9,35	B04614606	10,50	B04614629
	9,40	B04614607	10,55	B04614630
	9,45	B04614608	10,60	B04614631
	9,50	B04614609	10,65	B04614632
	9,55	B04614610	10,70	B04614633
	9,60	B04614611	10,75	B04614634
	9,65	B04614612	10,80	B04614635
	9,70	B04614613	10,85	B04614636
	9,75	B04614614	10,90	B04614637
	9,80	B04614615	10,95	B04614638
	9,85	B04614616	11,00	B04614639
	9,90	B04614617	11,05	B04614640
	9,95	B04614618	11,10	B04614641
	10,00	B04614619	11,15	B04614642
	10,05	B04614620	11,20	B04614643
	10,10	B04614621	11,25	B04614644
	10,15	B04614622	11,30	B04614645

3 VdS - approved components
4 Components part of VdS - approved system

NOZZLES FOR NOVEC 1230 FLUID

180°				
Connection thread	Orifice Diameter (mm)	Article number	Orifice Diameter (mm)	Article number
R $\frac{1}{4}$ "	2,00	B04614131	3,50	B04615113
	2,05	B04614132	3,55	B04615114
	2,10	B04614133	3,60	B04615115
	2,15	B04614134	3,65	B04615116
	2,20	B04614135	3,70	B04615117
	2,25	B04614136	3,75	B04615118
	2,30	B04614137	3,80	B04615119
	2,35	B04614138	3,85	B04615120
	2,40	B04614139	3,90	B04615121
	2,45	B04614140	3,95	B04615122
	2,50	B04614141	4,00	B04615123
	2,55	B04614142	4,05	B04615124
	2,60	B04614143	4,10	B04615125
	2,65	B04614144	4,15	B04615126
	2,70	B04614145	4,20	B04615127
	2,75	B04614146	4,25	B04615128
	2,80	B04614147	4,30	B04615129
	2,85	B04614148	4,35	B04615130
	2,90	B04615101	4,40	B04615131
	2,95	B04615102	4,45	B04615132
	3,00	B04615103	4,50	B04615133
	3,05	B04615104	4,55	B04615134
	3,10	B04615105	4,60	B04615135
	3,15	B04615106	4,65	B04615136
	3,20	B04615107	4,70	B04615137
	3,25	B04615108	4,75	B04615138
	3,30	B04615109	4,80	B04615139
	3,35	B04615110	4,85	B04615140
	3,40	B04615111	4,90	B04615141
	3,45	B04615112	4,95	B04615142
R $\frac{3}{4}$ "	3,40	B04614226	5,20	B04615206
	3,45	B04614227	5,25	B04615207
	3,50	B04614228	5,30	B04615208
	3,55	B04614229	5,35	B04615209
	3,60	B04614230	5,40	B04615210
	3,65	B04614231	5,45	B04615211
	3,70	B04614232	5,50	B04615212
	3,75	B04614233	5,55	B04615213
	3,80	B04614234	5,60	B04615214
	3,85	B04614235	5,65	B04615215
	3,90	B04614236	5,70	B04615216
	3,95	B04614237	5,75	B04615217
	4,00	B04614238	5,80	B04615218
	4,05	B04614239	5,85	B04615219
	4,10	B04614240	5,90	B04615220
	4,15	B04614241	5,95	B04615221
	4,20	B04614242	6,00	B04615222
	4,25	B04614243	6,05	B04615223
	4,30	B04614244	6,10	B04615224
	4,35	B04614245	6,15	B04615225
	4,40	B04614246	6,20	B04615226
	4,45	B04614247	6,25	B04615227
	4,50	B04614248	6,30	B04615228
	4,95	B04615201	6,35	B04615229
	5,00	B04615202	6,40	B04615230
	5,05	B04615203	6,45	B04615231
	5,10	B04615204	6,50	B04615232
	5,15	B04615205	6,55	B04615233

180°				
Connection thread	Orifice Diameter (mm)	Article number	Orifice Diameter (mm)	Article number
R1"	4,60	B04614328	7,00	B04615307
	4,65	B04614329	7,05	B04615308
	4,70	B04614330	7,10	B04615309
	4,75	B04614331	7,15	B04615310
	4,80	B04614332	7,20	B04615311
	4,85	B04614333	7,25	B04615312
	4,90	B04614334	7,30	B04615313
	4,95	B04614335	7,35	B04615314
	5,00	B04614336	7,40	B04615315
	5,05	B04614337	7,45	B04615316
	5,10	B04614338	7,50	B04615317
	5,15	B04614339	7,55	B04615318
	5,20	B04614340	7,60	B04615319
	5,25	B04614341	7,65	B04615320
	5,30	B04614342	7,70	B04615321
	5,35	B04614343	7,75	B04615322
	5,40	B04614344	7,80	B04615323
	5,45	B04614345	7,85	B04615324
	5,50	B04614346	7,90	B04615325
	5,55	B04614347	7,95	B04615326
	5,60	B04614348	8,00	B04615327
	5,65	B04614349	8,05	B04615328
	5,70	B04614350	8,10	B04615329
	5,75	B04614351	8,15	B04615330
	6,70	B04615301	8,20	B04615331
	6,75	B04615302	8,25	B04615332
	6,80	B04615303	8,30	B04615333
	6,85	B04615304	8,35	B04615334
	6,90	B04615305	8,40	B04615335
	6,95	B04615306		
R1 $\frac{1}{4}$ "	5,90	B04614439	7,35	B04614468
	5,95	B04614440	7,40	B04614469
	6,00	B04614441	7,45	B04614470
	6,05	B04614442	7,50	B04614471
	6,10	B04614443	7,55	B04614472
	6,15	B04614444	7,60	B04614473
	6,20	B04614445	8,60	B04615401
	6,25	B04614446	8,65	B04615402
	6,30	B04614447	8,70	B04615403
	6,35	B04614448	8,75	B04615404
	6,40	B04614449	8,80	B04615405
	6,45	B04614450	8,85	B04615406
	6,50	B04614451	8,90	B04615407
	6,55	B04614452	8,95	B04615408
	6,60	B04614453	9,00	B04615409
	6,65	B04614454	9,05	B04615410
	6,70	B04614455	9,10	B04615411
	6,75	B04614456	9,15	B04615412
	6,80	B04614457	9,20	B04615413
	6,85	B04614458	9,25	B04615414
	6,90	B04614459	9,30	B04615415
	6,95	B04614460	9,35	B04615416
	7,00	B04614461	9,40	B04615417
	7,05	B04614462	9,45	B04615418
	7,10	B04614463	9,50	B04615419
	7,15	B04614464	9,55	B04615420
	7,20	B04614465	9,60	B04615421
	7,25	B04614466	9,65	B04615422
	7,30	B04614467		

NOZZLES FOR NOVEC 1230 FLUID

180°				
Connection thread	Orifice Diameter (mm)	Article number	Orifice Diameter (mm)	Article number
R1¼"	9,70	B04615423	10,45	B04615438
	9,75	B04615424	10,50	B04615439
	9,80	B04615425	10,55	B04615440
	9,85	B04615426	10,60	B04615441
	9,90	B04615427	10,65	B04615442
	9,95	B04615428	10,70	B04615443
	10,00	B04615429	10,75	B04615444
	10,05	B04615430	10,80	B04615445
	10,10	B04615431	10,85	B04615446
	10,15	B04615432	10,90	B04615447
	10,20	B04615433	10,95	B04615448
	10,25	B04615434	11,00	B04615449
	10,30	B04615435	11,05	B04615450
	10,35	B04615436	11,10	B04615451
	10,40	B04615437		
R1½"	7,75	B04614528	11,55	B04615506
	7,80	B04614529	11,60	B04615507
	7,85	B04614530	11,65	B04615508
	7,90	B04614531	11,70	B04615509
	7,95	B04614532	11,75	B04615510
	8,00	B04614533	11,80	B04615511
	8,05	B04614534	11,85	B04615512
	8,10	B04614535	11,90	B04615513
	8,15	B04614536	11,95	B04615514
	8,20	B04614537	12,00	B04615515
	8,25	B04614538	12,05	B04615516
	8,30	B04614539	12,10	B04615517
	8,35	B04614540	12,15	B04615518
	8,40	B04614541	12,20	B04615519
	8,45	B04614542	12,25	B04615520
	8,50	B04614543	12,30	B04615521
	8,55	B04614544	12,35	B04615522
	8,60	B04614545	12,40	B04615523
	8,65	B04614546	12,45	B04615524
	8,70	B04614547	12,50	B04615525
	8,75	B04614548	12,55	B04615526
	8,80	B04614549	12,60	B04615527
	8,85	B04614550	12,65	B04615528
	11,30	B04615501	12,70	B04615529
	11,35	B04615502	12,75	B04615530
	11,40	B04615503	12,80	B04615531
	11,45	B04615504	12,85	B04615532
	11,50	B04615505	12,90	B04615533

180°				
Connection thread	Orifice Diameter (mm)	Article number	Orifice Diameter (mm)	Article number
R2"	9,05	B04614646	13,70	B04615611
	9,10	B04614647	13,75	B04615612
	9,15	B04614648	13,80	B04615613
	9,20	B04614649	13,85	B04615614
	9,25	B04614650	13,90	B04615615
	9,30	B04614651	13,95	B04615616
	9,35	B04614652	14,00	B04615617
	9,40	B04614653	14,05	B04615618
	9,45	B04614654	14,10	B04615619
	9,50	B04614655	14,15	B04615620
	9,55	B04614656	14,20	B04615621
	9,60	B04614657	14,25	B04615622
	9,65	B04614658	14,30	B04615623
	9,70	B04614659	14,35	B04615624
	9,75	B04614660	14,40	B04615625
	9,80	B04614661	14,45	B04615626
	9,85	B04614662	14,50	B04615627
	9,90	B04614663	14,55	B04615628
	9,95	B04614664	14,60	B04615629
	10,00	B04614665	14,65	B04615630
	10,05	B04614666	14,70	B04615631
	10,10	B04614667	14,75	B04615632
	10,15	B04614668	14,80	B04615633
	10,20	B04614669	14,85	B04615634
	10,25	B04614670	14,90	B04615635
	10,30	B04614671	14,95	B04615636
	10,35	B04614672	15,00	B04615637
	10,40	B04614673	15,05	B04615638
	10,45	B04614674	15,10	B04615639
	10,50	B04614675	15,15	B04615640
	10,55	B04614676	15,20	B04615641
	10,60	B04614677	15,25	B04615642
	10,65	B04614678	15,30	B04615643
	10,70	B04614679	15,35	B04615644
	10,75	B04614680	15,40	B04615645
	10,80	B04614681	15,45	B04615646
	10,85	B04614682	15,50	B04615647
	10,90	B04614683	15,55	B04615648
	10,95	B04614684	15,60	B04615649
	11,00	B04614685	15,65	B04615650
	11,05	B04614686	15,70	B04615651
	11,10	B04614687	15,75	B04615652
	11,15	B04614688	15,80	B04615653
	11,20	B04614689	15,85	B04615654
	11,25	B04614690	15,90	B04615655
	11,30	B04614691	15,95	B04615656
	13,20	B04615601	16,00	B04615657
	13,25	B04615602	16,05	B04615658
	13,30	B04615603	16,10	B04615659
	13,35	B04615604	16,15	B04615660
	13,40	B04615605	16,20	B04615661
	13,45	B04615606	16,25	B04615662
	13,50	B04615607	16,30	B04615663
	13,55	B04615608	16,35	B04615664
	13,60	B04615609	16,40	B04615665
	13,65	B04615610	16,45	B04615666

MANIFOLDS | FITTINGS AND TUBES

Manifolds are used to connect several high pressure cylinders. They consist of tees, tubes and a plug.

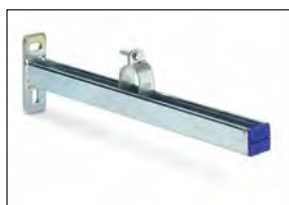


Part	Article number	Dimensions*	Maximum pressure
① Tube	022700660	R2" – 185mm	60 bar
	022700661	R2" – 260mm	
	022700662	R2" – 460mm	
	022700663	R3" – 135mm	
	022700664	R3" – 210mm	
	022700665	R3" – 410mm	
② Tee	026600007	Rp2" - Rp2" - Rp2"	100 bar
	026600008	Rp3" - Rp2 1/2" - Rp3"	
	026600009	Rp2 1/2" - Rp2 1/2" - Rp2 1/2"	
	026600010	Rp3" - Rp2" - Rp3"	
③ Plug	023260068	R2"	
	023260001	R2 1/2"	
	023260069	R3"	
④ Enlarger	026400009	R2" - R2 1/2"	
⑤ Reducer	026400011	R2 1/2" - Rp2"	
⑥ Coupling	026300347	Rp2"	
	026300348	Rp3"	

* Rp - female thread; R - male thread

MANIFOLDS | MOUNTING PARTS

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" and 3" diameters.



BRACKET FOR MANIFOLD

	Cylinder lenght	Product code
Single row	30L/50L cyl. 205 mm	B05805000
	80L to 18L cyl. 300 mm	B05805010
Double row	30L/50L cyl. 505 mm	B05805011
	8 to 180L cyl. 700 mm	B05805012

CLAMP FOR MANIFOLD

Diameter	Product code
2"	B05805004
3"	022730004

END CAP FOR MOUNTING RAIL AND BRACKET

Product code
024900322

CYLINDER MOUNTING PARTS

Galvanized steel wall mounting rails and clamps are used to mount the cylinders in a vertical position to the wall.

KEY FEATURES

- Galvanized steel components for solid support and a long service lifetime



1

WALL MOUNTING RAIL

Input		Length L	Product code
30L to 50L cylinder	80L to 180L cylinder		
1 cylinder	1 cylinder	645 mm	024900312
2 cylinder	/	940 mm	024900313
3 cylinder	2 cylinder	1240 mm	024900314
/	3 cylinder	1835 mm	024900316

2

CLAMP FOR CYLINDER

Diameter	Product code
232 mm	024900456
406 mm	024900457

3

END CAP FOR MOUNTING RAIL AND BRACKET

Product code
024900322

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.

KEY FEATURES

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



Product code	029905201	029905202
Description	Mounted on B0481 valve	Mounted on B0482 valve



PRESSURE & FLOW DETECTOR SWITCH

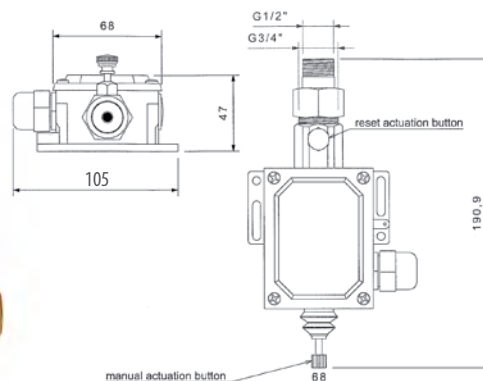
Used to send a signal that the system is discharging.

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

LABEL CLEANFIRE USING NOVEC 1230 FLUID

VdS-approved cylinder labels for 30L to 180L cylinders.

A mandatory part of a complete VdS-approved system.

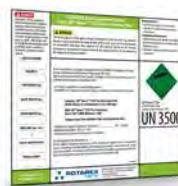


Not included with empty cylinder / valve assemblies.



Labels only valid for cylinders VdS approved systems.

FOR 30L TO 180L



Novec 1230 Fluid	
Product code	028000383

22 MULTIPLE ZONES PROTECTION ACCESSORIES

The following components are not part of the VdS system approval

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 steel housing
- Status indication
- IP 67



Product code - Carbon steel	B05511050	B05511150	B05511250	B05511350	B05511450
Size	1"	1,5"	2"	2,5"	3"
DN	25	40	50	65	80
Unit nominal pressure (@20°C)	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	N ₂	N ₂	N ₂	N ₂	N ₂
Pilot pressure	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
Weight	7 kg	12 kg	14 kg	70 kg	88 kg
Seal material	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR	POM (greased), NBR
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

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 1/2"
Voltage	G 1/4" / DN6 24 VDC

1 Compliant with the Construction Products Regulation (CPR)
3 Oct. 2014 3 VdS - approved components

CONTROL PANELS 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 zone protection
- Hose B06920212

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

Connection thread	G 1/4"	Operating temperature	-20°C to 50°C	Nominal voltage	24 VDC
Maximum inlet pressure	60 bar	Inlet connection for hi-flex hose	1/4"	Operating medium	Nitrogen
Outlet operating pressure	8 bar				

NOTES

NOTES

[illegible]

A FULL LINE OF GAS CONTROL SOLUTIONS



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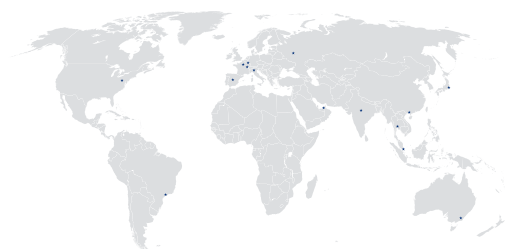
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