



AUSTRALIA WIDE FIRE SUPPLIES

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DAB

PRODUCT INFORMATION AND SPECIFICATIONS

AUGUST 2015

**For all your
Fire Protection
Accessories**

ABN 80 393 915 621
Member of the Fire Protection Association of Australia

D10963 1/2" CO2 Cylinder Valve

Developed specifically for the Fire Protection Industry, this valve is servo assisted to provide light operating loads throughout the complete range of CO2 cylinder pressures.

This valve is suitable for both marine and onshore use.

Features include:

- Servo assisted operation for smooth opening.
- High flow characteristics.
- Quick release head enabling a variety of actuators to be used.
- Safety burst disc to protect valve and cylinder in the event of over-pressure.
- NPT or DIN 477 cylinder threads.
- Standard 1/2" CO2 threaded outlet.
- Robust and compact body design.
- Proven reliability through many years of service.
- DNV type certification.



	DIN Valve	NPT Valve
Cylinder Thread	DIN 477	1" NPT
Outlet Thread	1/2" CO2 (0.860 x 14TPI)	
Syphon Tube Thread	M16 x 1	3/4" x 20TPI Whit Form
Burst Disk Pressure	190 Bar	
Flow Rate	80% CO2 in 23 Seconds for NPT Valve	
Pressure Drop	Equivalent length 9 feet of 1/2" schedule 80 pipe	
Type Approval	Det Norske Veritas. (DNV)	
Weight	0.592 Kg	0.630 Kg
Operating Temperature	-20°C to +50°C	
Pressure Range	7 BAR to 140 BAR (100 PSI to 2030 PSI)	

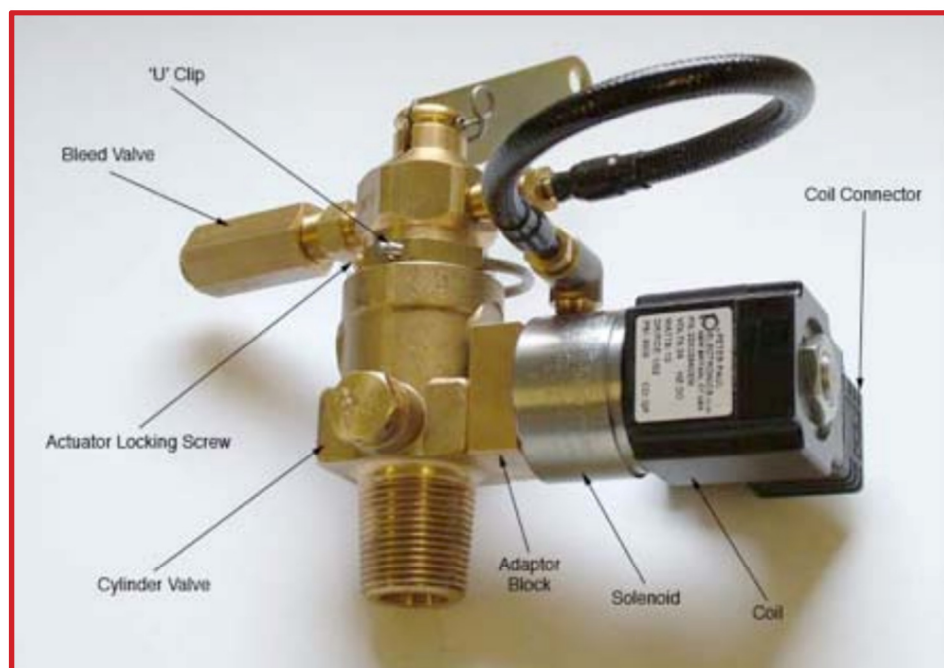
D11095 1/2" Solenoid Operated Cylinder Valve

Developed specifically for the Fire Protection industry, the valve is designed to be operated electrically. It is typically used as the master valve and used to actuate other cylinder valves in the system.

This valve is suitable for both marine and onshore use.

Features include:

- Servo assisted operation for smooth opening.
- High flow characteristics.
- Internal cylinder pressure used to actuate the solenoid valve.
- Actuator can be safely disconnected from the valve for testing purposes.
- Solenoid can be safely removed for testing purposes
- Bleed valve fitted in event of leakage.
- Manual over-ride lever fitted as standard.
- Safety burst disc to protect valve and cylinder in the event of over-pressure.
- NPT or DIN 477 cylinder threads.
- Standard 1/2" CO2 threaded outlet.
- Robust and compact body design.
- Proven reliability through many years of service.
- 240VAC or 24VDC variants available.



	DIN Valve	NPT Valve
Cylinder Thread	DIN 477	1" NPT
Outlet Thread	1/2" CO2 (0.860 x 14TPI)	
Syphon Tube Thread	M16 x 1	3/4" x 20TPI Whit Form
Burst Disk Pressure	190 Bar	
Flow Rate	80% CO2 in 23 Seconds for NPT Valve	
Pressure Drop	Equivalent length 9 feet of 1/2" schedule 80 pipe	
Operating Temperature	-20°C to +50°C	
Pressure Range	7 BAR to 140 BAR (100 PSI to 2030 PSI)	
#22X0284OEM	24 Volt DC - 10 Watt	
#22X0321OEM	240 Volt AC - 10 Watt	

D10964 Manual / Pneumatic Actuator with Detent

This actuator is designed to be operated both manually and pneumatically. When operated manually, a safety clip has to be removed before the lever can be operated. Actuation ports are machined in both sides of the body to enable several actuators to be 'daisy chained'.

Once operated, a detent device ensures that the actuator remains in the fully open position.

To reset the actuator, simply reset the lever to the closed position replace the safety clip and gently pull out the reset knob on the detent.

Features include:

- Solid brass one piece body
- Lever for manual operation
- Dual ports for easy daisy-chaining of pilot lines
- Detent device to lock the actuator in the open position once operated
- Safety clip to prevent accidental actuation
- Available with either 1/8" BSPT or 1/8" NPT actuation ports

NOTE: A pressure of at least 450 PSI (31 Bar) must be available at the last actuator to ensure correct actuation of the CO2 valves.



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	31 Bar (450 PSI)	140 Bar (2030 PSI)

D10978

Single Slave Actuator

This actuator is designed to be operated pneumatically only.

Features include:

- Solid brass one piece body
- Available with either 1/8" BSPT or 1/8" NPT actuation port

NOTE: A pressure of at least 450 PSI (31 Bar) must be available at the last actuator to ensure correct actuation of the CO2 valves.



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	31 Bar (450 PSI)	140 Bar (2030 PSI)

D10980 Metron Actuator

This actuator is designed to be operated electrically using a Metron Protractor device.

Once operated, a detent device ensures that the actuator remains in the fully open position.

To reset the actuator, simply replace the Metron Protractor with a new unit and gently pull out the reset knob on the detent.

Features include:

- Solid brass one piece body
- Available with either 1/8" BSPT or 1/8" NPT actuation port
- Detent device to lock the actuator in the open position once operated



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Recommended Metron	<p>Metron protractors are not supplied with any of our Metron actuators.</p> <p>DAB recommend only the following Metron protractors: Leaffield Engineering Co. Ltd. - Part No. C89-151-10A Nobel Explosive Co. Ltd. - Part No. ICI-2014</p> <p>Please refer to instructions supplied with the Metron for specifications.</p> <p><i>NOTE: Metron Protractors are 'one shot' actuation devices and should be replaced immediately after use.</i></p>	

D10980/20 Metron Actuator with Conduit Thread

This actuator is designed to be operated electrically using a Metron Protractor device. A standard 20mm conduit thread is machined to the top of the body to enable connection to a standard electrical conduit.

Once operated, a detent device ensures that the actuator remains in the fully open position.

To reset the actuator, simply replace the Metron Protractor with a new unit and gently pull out the reset knob on the detent.

Features include:

- Solid brass one piece body
- Available with either 1/8" BSPT or 1/8" NPT actuation port
- Detent device to lock the actuator in the open position once operated



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Recommended Metron	Metron protractors are not supplied with any of our Metron actuators. DAB recommend only the following Metron protractors: Leaffield Engineering Co. Ltd. - Part No. C89-151-10A Nobel Explosive Co. Ltd. - Part No. ICI-2014 Please refer to instructions supplied with the Metron for specifications. <i>NOTE: Metron Protractors are 'one shot' actuation devices and should be replaced immediately after use.</i>	

D11003 Double Slave Actuator with Detent

This actuator is designed to be operated pneumatically only. Actuation ports are machined in both sides of the body to enable several actuators to be 'daisy chained'.

Once operated, a detent device ensures that the actuator remains in the fully open position.

To reset the actuator, gently pull out the reset knob on the detent.

Features include:

- Solid brass one piece body
- Dual ports for easy daisy-chaining of pilot lines
- Detent device to lock the actuator in the open position once operated
- Available with either 1/8" BSPT or 1/8" NPT actuation ports



NOTE: A pressure of at least 450 PSI (31 Bar) must be available at the last actuator to ensure correct actuation of the CO2 valves.

	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	31 Bar (450 PSI)	140 Bar (2030 PSI)

D11023 Double Slave Metron Actuator

This actuator is designed to be operated either pneumatically or electrically using a Metron Protractor device.

Once operated, a detent device ensures that the actuator remains in the fully open position.

To reset the actuator, simply replace the Metron Protractor with a new unit and gently pull out the reset knob on the detent.

Features include:

- Solid brass one piece body
- Available with either 1/8" BSPT or 1/8" NPT actuation port
- Detent device to lock the actuator in the open position once operated

NOTE: A pressure of at least 450 PSI (31 Bar) must be available at the last actuator to ensure correct actuation of the CO2 valves.



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	31 Bar (450 PSI)	140 Bar (2030 PSI)
Recommended Metron	<p>Metron protractors are not supplied with any of our Metron actuators.</p> <p>DAB recommend only the following Metron protractors: Leaffield Engineering Co. Ltd. - Part No. C89-151-10A Nobel Explosive Co. Ltd. - Part No. ICI-2014</p> <p>Please refer to instructions supplied with the Metron for specifications.</p> <p><i>NOTE: Metron Protractors are 'one shot' actuation devices and should be replaced immediately after use.</i></p>	

D11039

Manual Handwheel Actuator

This actuator is designed for manual actuation of a single CO2 Valve. It can be used for testing & inspection purposes.

To operate this actuator, simply turn the handwheel clockwise a few turns until the valve opens.

Features include:

- Solid brass one piece body
- Ergonomic plastic handwheel



	Minimum	Maximum
Operating Temperature	-20°C	+50°C

D11056

Bleed Valve

The bleed valve is designed to prevent accidental initiation of the main system in the event of a slow build up of pressure into the pilot line caused by leakage from any actuation device.

The valve, shown in the open position, allows pilot gas to pass to atmosphere thus preventing any rise in pressure in the pilot line. However, when the system is operated, the pilot pressure rises rapidly above the closing pressure and the valve closes thereby allowing actuation to take place immediately.

After operation, when the system is bled, the valve will reset automatically. However, if there is no provision for bleeding, this can be achieved by simply pushing in the reset knob.



The bleed valve is supplied with a 1/4" NPT Female thread. The valve is designed to shut fully at a pressure of 2 Bar - 30 PSI

Features include:

- Solid brass one piece body
- Brass reset knob for easy operation.

	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	Open below 1 1/2 Bar-22 PSI Closed above 2 Bar –30 PSI	140 Bar (2030 PSI)

D11096

Manifold Burst Disk

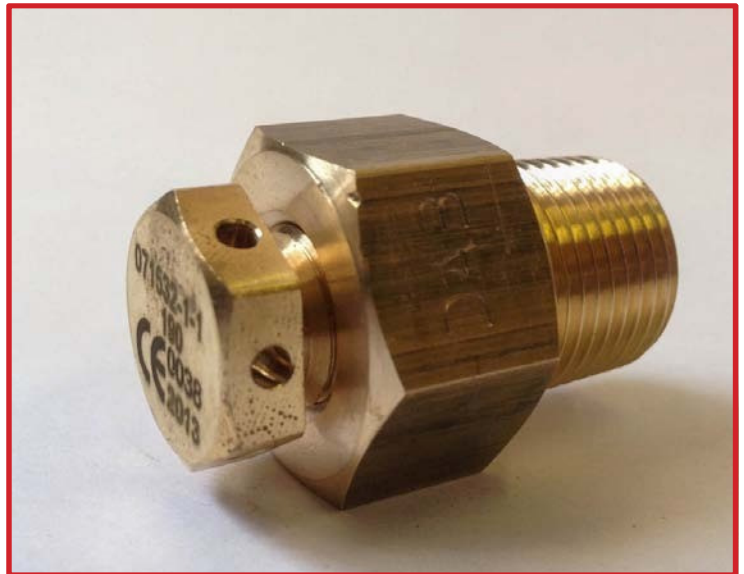
The Manifold Burst Disc Assembly is designed to be fitted in to the manifold to protect the system from any accidental overpressure. ie: Pressure build up in the manifold due to high temperature.

When the burst pressure is achieved the Recoil Nozzle vents the built up gas safely to atmosphere. The manifold burst disc can be supplied with either a 3/8" BSPT or a 1/2" BSPT Male Thread.

The burst disc is designed to burst at a pressure of 190 Bar.

Features include:

- Solid brass one piece body
- CE Marked burst disk



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	0 Bar (0 PSI)	190 Bar (2755 PSI)

D10992

Manifold Ball Check Valve

This valve is designed to fit between the manifold and the CO2 valve to stop any possible back pressure from occurring when the system is discharged.

The ½" Ball Check can be supplied with either a ¾" BSPT or a ¾" NPT male thread. The NPT Thread is identified by a series of notches machined in the hexagon portion of the valve body.

On the other end of the ball check a CO2 thread is machined to take any standard CO2 connector.

Features include:

- Solid brass one piece body
- Stainless Steel Ball



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	0 Bar - (0 PSI)	140 Bar (2030 PSI)

D11101

Manifold Ball Check Valve with Pilot Line Thread

This valve is designed to fit between the manifold and the CO2 valve to stop any possible back pressure from occurring when the system is discharged.

In addition this valve has a threaded port to enable cylinder pressure to be used to operate any other CO2 Equipment. The ½" Ball Check can be supplied with either a ¾" BSPT or a ¾" NPT male thread. The NPT Thread is identified by a series of notches machined in the hexagon portion of the valve body.

On the other end of the ball check a CO2 thread is machined to take any standard CO2 connector. The pilot line thread is machined in the side of the body to accept any standard 3/16" Enots pipefitting.



Features include:

- Solid brass one piece body
- Stainless Steel Ball
- 3/16" Enots thread

	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	0 Bar (0 PSI)	140 Bar (2030 PSI)

D11092 Manifold Pressure Switch

The Manifold Pressure Switch is designed to be fitted directly to the manifold to give an electrical indication of any pressure present in the manifold. The pressure switch is available in two configurations, Latching & Non Latching.

Non Latching Pressure Switch.

When sufficient pressure is available, the pressure switch will automatically close the contacts on the micro-switch. When the pressure in the manifold drops sufficiently the pressure switch will automatically reset, thus opening the contacts of the micro-switch. In this configuration, the switch is commonly used to indicate presence of pressure in the manifold.

Latching Pressure Switch.

When sufficient pressure is available, the pressure switch will automatically close the contacts on the microswitch. At this point a detent device locks the pressure switch in the "Pressurised" position. Once the pressure in the manifold has dropped sufficiently, the pressure switch can be reset by gently pulling out the detent knob. In this configuration, the switch is commonly used to indicate whether the CO2 system has been "Fired", as the switch remains closed after the manifold pressure drops.



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	10 Bar - (145 PSI)	206 Bar (3000 PSI)
Microswitch Specification	Type C12 - HP Rating 0.75 Amps AC Voltage - 600 VAC @ 5 Amps Max Current - 20 Amps @ 125 VAC Max DC Voltage - 250 VDC @ 0.375 Amps Max Current - 0.5 Amps @ 125 VDC Max	

D10971 20mm - 50mm Pressure Operated Direction Valve

Supplied in single or double inlet configurations these valves are designed to give maximum versatility of operation and can be used in CO2 or halocarbon systems.

These valves can be operated either by using independent pilot pressure or manifold pressure. They can also be fitted with a hand-wheel over-ride, according to customer specification. In addition the unit can be actuated electrically by a protractor type Metron by utilisation of the optional Transfer Block Assembly.

In the case of the pilot pressure type, when control pressure is applied to the actuator port, pressure is ported through to the lower side of the lift piston, thereby initiating the opening of the pilot seat followed by the main valve seat.

Using manifold pressure for operation, the unit is fitted with a transfer valve block to which can be attached any one of our range of actuators. In the event of actuation, gas pressure is ported through from the manifold area to the lower side of the lift piston, thereby initiating the opening of the pilot seat followed by the main valve seat.



	Minimum	Maximum
Operating Temperature	-20°C	+50°C
Operating Pressure Range	7 Bar (100 PSI)	140 Bar (2030 PSI)
Control Pressure Range	11 Bar (160 PSI)	140 Bar (2030 PSI)

These valves can be supplied in the following configurations.	
Double inlet	The valve can be supplied in single or double inlet configurations. Ports may be supplied with either BSPT or NPT threads to suit the manifold.
Manual Hand-Wheel	Turning the hand-wheel anticlockwise (as seen from above) initiates the opening of the valve. Turning further fully opens the valve. Turning the hand-wheel fully clockwise will close the valve
Pressure Operation	A 1/8" BSPT or 1/8" NPT actuator port (dependant on customer requirements) is provided in the side face of the valve. When a pressure of at least 160PSI is applied to this port, the valve will fully open. When pressure is removed the valve will automatically close.
Transfer Port	An optional transfer port can be supplied in the side of the POD valve bonnet to be used as an auxiliary port. This port will only supply pressure when the POD valve has been actuated by control pressure applied to the actuator port and when the POD valve is fully open. NOTE: The transfer port cannot be supplied in conjunction with a transfer valve block.
Transfer Valve Block	An optional transfer valve block can be supplied fitted to the side of the POD valve. When a DAB actuator is fitted to the valve block the transfer valve enables manifold pressure from inside the POD valve, if sufficient pressure present, to be used to open the POD valve. NOTE: The transfer valve block cannot be supplied in conjunction with a transfer port.
Micro-Switch	An optional micro-switch can be supplied fitted to the side of the POD valve. Its function is to provide a means of electrical indication when the valve is fully open or closed.
Anti-Tamper Switch	An optional micro-switch can be supplied fitted to the side of the POD valve. Its function is to provide a means of electrical indication to show when the hand-wheel has been operated.