

CYLINDER /VALVE ASSEMBLY

NAFFCOInert® cylinders shall be High Pressure Seamless Cylinder available in different capacities (i.e. 67, 80 & 140 Ltrs).

The Cylinder filling pressure shall be either 200 Bar or 300 Bar to meet suitable system requirement. Cylinders arrives with valves pre-assembled.



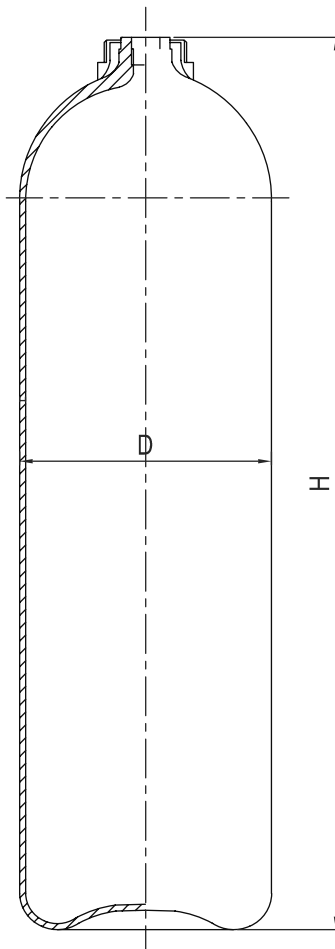
SPECIFICATION

Working Pressure	200 Bar	300 Bar
Test Pressure	300 Bar	450 Bar
Material	34CrMO4 EN 10 083	
Colour	RAL 3000	
Thread Connection	W28.8 x 1/14" - EN 629-1	
Conformity	ISO 9809 Part 1&2/ TUV+UN	
Mounting	Vertical	
Cylinder Actuation	Electric/Pneumatic - Input from Control Panel Manual/ Pneumatic - Input from Push Knob	
Cylinder Storage Temperature	-20°C to 50°C	

EXTINGUISHING AGENT FILLING MASS

Cylinder Capacity	IG 01	IG 100	IG 55	IG 541
67 Liters, 200 Bar	24.1	15.1	19.3	20.2
67 Liters, 300 Bar	33.4	19.5	26.8	27.7
80 Liters, 200 Bar	28.5	17.9	22.9	24.2
80 Liters, 300 Bar	40.8	24.7	31.2	33.2
140 Liters, 200 Bar	49.9	31.3	40.1	42.0
140 Liters, 300 Bar	71.4	43.2	56.3	58.2

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CYLINDER DIMENSIONS

67 Litres				
Working Pressure	200 Bar	200 Bar	300 Bar	300 Bar
Diameter	267 mm	360 mm	267mm	360 mm
Height	1470 mm	900 mm	1526 mm	900 mm
Model Number(IG01)	NFIG01-200-067A	NFIG01-200-067B	NFIG01-300-067A	NFIG01-300-067B
Model Number(IG100)	NFIG100-200-067A	NFIG100-200-067A	NFIG100-300-067A	NFIG100-300-067B
Model Number(IG55)	NFIG55-200-067A	NFIG55-200-067B	NFIG55-300-067A	NFIG55-300-067B
Model Number(IG541)	NFIG541-200-067A	NFIG541-200-067B	NFIG541-300-067A	NFIG541-300-067B

80 Litres				
Working Pressure	200 Bar	200 Bar	300 Bar	300 Bar
Diameter	267 mm	360 mm	267mm	360 mm
Height	1710 mm	1025 mm	1780 mm	1090 mm
Model Number(IG01)	NFIG01-200-080A	NFIG01-200-080B	NFIG01-300-080A	NFIG01-300-080B
Model Number(IG100)	NFIG100-200-080A	NFIG100-200-080A	NFIG100-300-080A	NFIG100-300-080B
Model Number(IG55)	NFIG55-200-080A	NFIG55-200-080B	NFIG55-300-080A	NFIG55-300-080B
Model Number(IG541)	NFIG541-200-080A	NFIG541-200-080B	NFIG541-300-080A	NFIG541-300-080B

CYLINDER DIMENSIONS

140 Litres		
Working Pressure	200 Bar	300 Bar
Diameter	360 mm	360 mm
Height	1690 mm	1760 mm
Model Number(IG01)	NFIG01-200-140	NFIG01-300-140
Model Number(IG100)	NFIG100-200-140	NFIG100-300-140
Model Number(IG55)	NFIG55-200-140	NFIG55-300-140
Model Number(IG541)	NFIG541-200-140	NFIG541-300-140

INSTALLATION

The system installation must comply with the requirements of this manual; ISO 14520 or EN 15004 or NFPA 2001 and all applicable local codes, regulations, and standards; and the authority having jurisdiction (AHJ).

WARNING: “DO NOT” start system installation until the final design of the total system has been verified using Engineered Flow Calculation.

SAFETY: The system involves handling high pressure equipment. All installers must be fully trained by NAFFCO and conversant with this manual.

Attention is drawn to the European Pressure Equipment Directive 97/23/EC. All pipe-work must be made using certified materials.

Do not locate any system components where they would be subject to physical damage, exposure to corrosive chemicals, or harsh weather conditions or fire.

AGENT STORAGE CYLINDERS

Make certain that each cylinder has been installed in the correct location. Each cylinder has a nameplate with an identifying part number. Check the cylinder part number against those listed on the system plans to verify their locations.

Cylinders should be located in clean, dry, and relatively vibration-free areas. Avoid aisles and other high traffic areas where physical damage or tampering is more likely. Cylinders should never be mounted where the cylinder could potentially be splashed with, or submerged in any liquid.

Cylinder brackets must be mounted securely to solid load-bearing surfaces that will support the cylinder load. Some installations may require additional mounting support not supplied by NAFFCO.

Cylinders should be located to allow easy accessibility to the actuation package for manual release of the system. Manual release is achieved by removing the locking pin and pressing the red manual activation strike knob adjacent to the electric solenoid. This will pneumatically initiate the discharge sequence.



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In line with NAFFCO policy for continuous product development, NAFFCO has the right to change specifications without prior notice.