

NAFFCO

HEAD VALVE

Model No.: NF 40/600V, NF 40/360V



DESCRIPTION

NAFFCO 40/600 & NAFFCO 40/360 valve is a quick opening differential valve, especially designed for gaseous extinguishing agents in modular/centralized systems to be used in Industry and Navy.

These valves are pressure differential valves. Actuation may be achieved by manual release, pneumatic release or electric release. They are supplied equipped with a pressure gauge/ pressure switch rated 0-999 psi. A safety disk is incorporated against over pressurization set at 870 ± 45 psi.

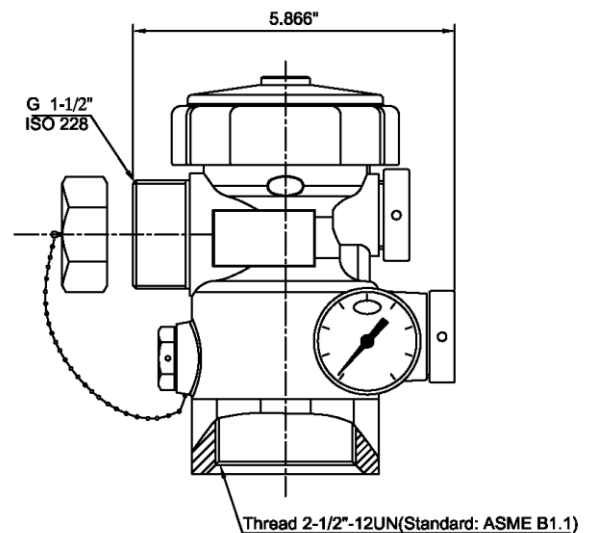
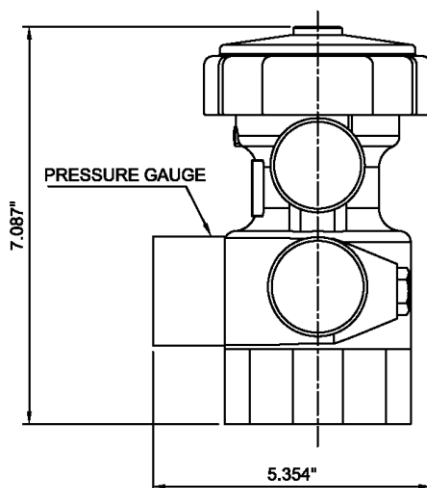
The relief valve device on the head cap prevents accidental cylinder discharge caused by micro leakage of pressure produced by some release devices.

The safety disk is set to burst and release the internal cylinder pressure when the pressure reaches values that exceed the cylinder test pressure. This device prevents an excessive rise in pressure (for example, due to overheating) that may cause the assembly to explode.



The burst disk allows actuation of manual and pneumatic release devices. When this disk bursts by means of the release system connected to it, the valve opens. Its set pressure does not allow bursting caused by cylinder over pressure.

NAFFCO 25/360 and NAFFCO 40/360 valves components are similar in number and operation within their assembly; they differ only in their dimensions.





TECHNICAL SPECIFICATION

Max. Working Pressure	1044 psi
Min. Working Pressure	101.5 psi
Working Pressure	609 psi
Hydraulic Test Pressure	3625.9 psi
Working Temperature	-4°F to +122°F 1377 ±101.5 PSI (40/600V)
Safety Disc	870 ±101.5 PSI (40/360V)
Weight	13.7 Lb
Free Cross Sectional Area	1.403 Inch ²
Equivalent Length	1140.154" of 1" Schedule 40 pipe

MATERIALS

Body	Brass, UNI EN12420
Piston	Stainless Steel AISI 303
Axle	Stainless Steel AISI 303
Joint Holder	Stainless Steel AISI 303
Sealing Joint	TEFLON PTFE
O-Ring	NBR/EPDM (UL)

OPTIONAL ACTUATION SYSTEMS: Electric by Solenoid, Pneumatic and Hand Lever Release

ACCESSORIES: Pressure gauge, Pressure switch.



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HEAD VALVE

Model No.: NF 25/600V, NF 25/360V

DESCRIPTION

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These valves are pressure differential valves. Actuation may be achieved by manual release, pneumatic release or electric release. They are supplied equipped with a pressure gauge/ pressure switch rated 0-999 psi. A safety disk is incorporated against over pressurization set at 870±45 psi.

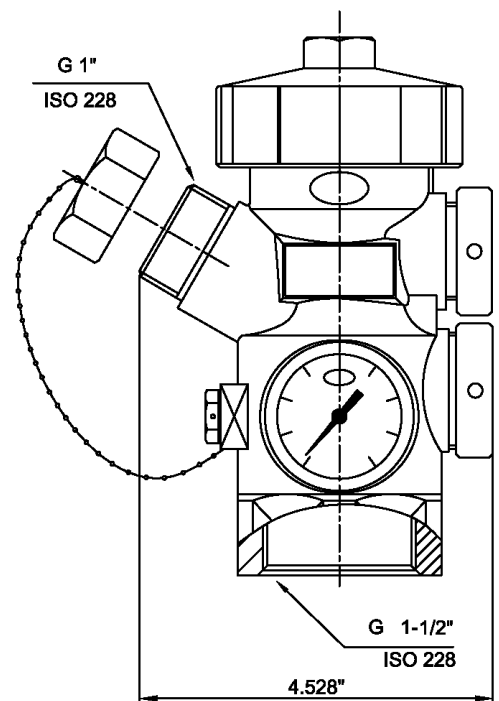
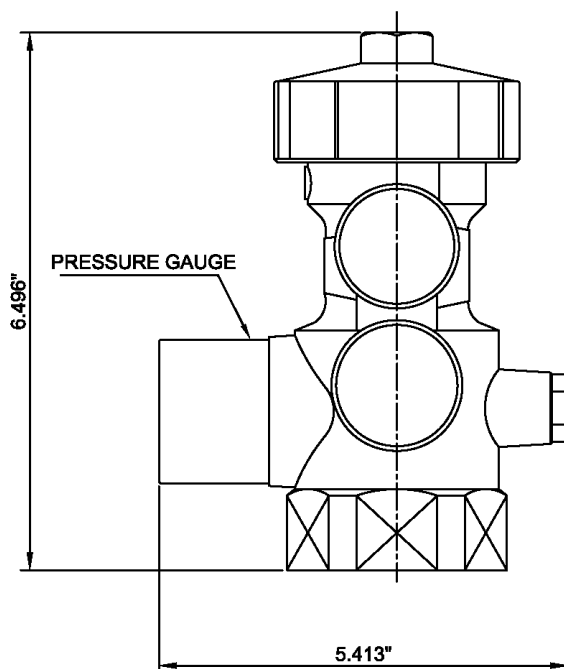
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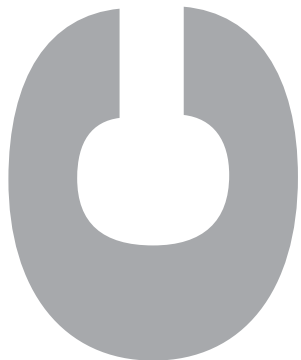
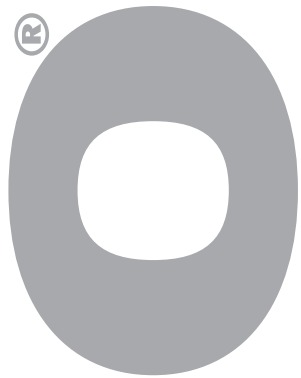
The safety disk is set to burst and release the internal cylinder pressure when the pressure reaches values that exceed the cylinder test pressure. This device prevents an excessive rise in pressure (for example, due to overheating) that may cause the assembly to explode.



The burst disk allows actuation of manual and pneumatic release devices. When this disk bursts by means of the release system connected to it, the valve opens. Its set pressure does not allow bursting caused by cylinder over pressure.

NAFFCO 25/360 and NAFFCO 40/360 valves components are similar in number and operation within their assembly; they differ only in their dimensions.





TECHNICAL SPECIFICATION

Max. Working Pressure	1044 psi
Min. Working Pressure	101.5 psi
Working Pressure	609 psi
Hydraulic Test Pressure	3625.9 psi
Working Temperature	-4°F to +122°F
Safety Disc	1377 ±101.5 PSI (25/600V)
	870 ±101.5 PSI (25/360V)
Weight	7.5 Lb
Free Cross Sectional Area	0.766 Inch ²
Equivalent Length	527.951" of 1" Schedule 40 pipe

MATERIALS

Body	Brass, UNI EN12420
Piston	Stainless Steel AISI303
Axle	Stainless Steel AISI303
Joint Holder	Stainless Steel AISI303
Sealing Joint	TEFLON PTFE
O-Ring	NBR/EPDM (UL)

OPTIONAL ACTUATION SYSTEMS: Electric by Solenoid, Pneumatic and Hand Lever Release

ACCESSORIES: Pressure gauge, Pressure switch.



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NAFFCO
 FIRE
 VALVES

HEAD VALVE

Model No.: NF 65/360V



DESCRIPTION

NAFFCO 65/360 valve is a differential opening valve, especially designed for gaseous extinguishing agents in modular/centralized systems.

The NAFFCO 65/360 valve model is used with cylinders of 190, 300, 430 and 590 lb capacity.

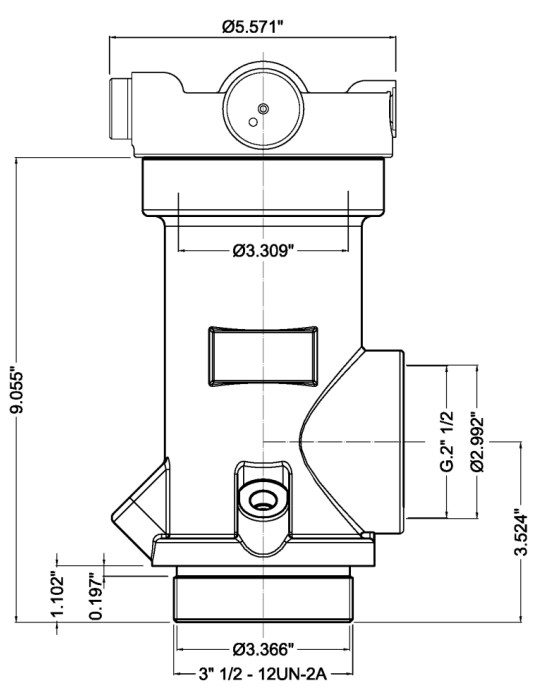
This valve is made of brass and consists of two parts: "valve body" and "head cap". Both parts are joined by means of four screws.

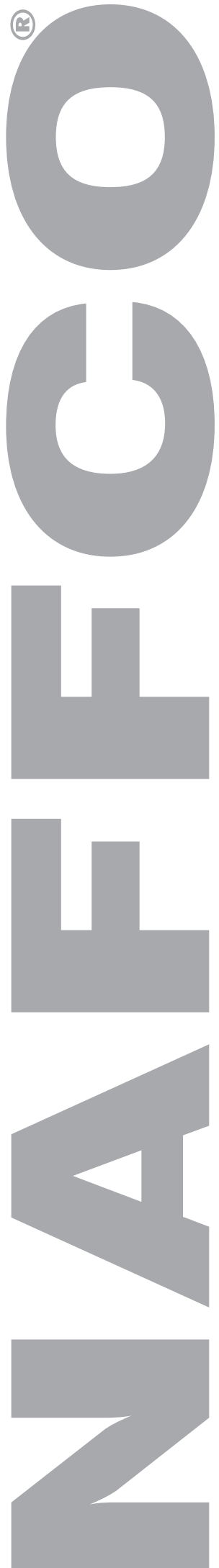
This valve incorporates a safety disk rated 870 ± 43.5 psi. The safety disk allows for a controlled discharge of the extinguishing agent in the event the cylinder becomes over pressurized. Inside the "valve body" there is a "piston" that prevents the discharge of the fire extinguishing agent stored in the cylinder through the outlet port. The piston separates the inside part of the valve body in two differentiated chambers: the lowest chamber is the connected to the cylinder and the upper chamber that is connected to the head cap which holds the piston closed. The piston remains closed because of the strength of the piston recovery spring and because the pressure of the upper chamber and the cylinder are the same.

The discharge of the valve is produced by the rupture of the burst disk placed in the head cap. The pressure accumulated in the upper chamber of the valve body goes out through an orifice placed in the head cap. When the pressure of the lowest chamber of the body (cylinder) is greater than the pressure of top chamber, the piston moves up and the valve opens discharging the fire extinguishing agent contained in the cylinder by a $2\frac{1}{2}$ " outlet port. The "pneumatic release head", is operated by actuators that breaks the burst disk, i.e.: electric by solenoid and manual lever release. The "head cap" contains the control and devices: pressure gauge/pressure switch, electric release systems, manual lever release. The head cap allows the connection of a pressure switch instead of a blind cap.

The valve incorporates a pressure gauge/pressure switch (rated to 0-999 psi) to monitor the internal pressure of the cylinder.

The connection of the outlet valve to the rigid discharge hose is by means of a grooved coupling.





TECHNICAL SPECIFICATION

Working Pressure	826.7 psi
Hydraulic Test Pressure	2175.6 psi
Working Temperature	-4°F to +122°F
Safety Disc	870.2 ± 43.5 psi
Weight	8.2 Lb
Actuation Systems	Solenoid, Manual
Free Cross Sectional Area	5.143 Inch ²
Equivalent Length	959.840" of 1" Schedule 40 pipe

MATERIALS

Body	Brass, UNI EN12165
Master Valve Head	Brass, UNI EN12165
Piston	Brass, UNI EN12165
Joint Holder	Brass, UNI EN12165
Transport Diaphragm	Zinc Plated Steel
O-Ring	NBR/EPDM (UL)

ACCESSORIES: Pressure gauge, Pressure switch.



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NAFFCO

HEAD VALVE

Model No.: NF 20/600V



DESCRIPTION

NAFFCO VALVE 20/600 valve is a quick opening differential valve, especially designed for gaseous extinguishing agents in modular/centralized systems to be used in Industry and Navy.

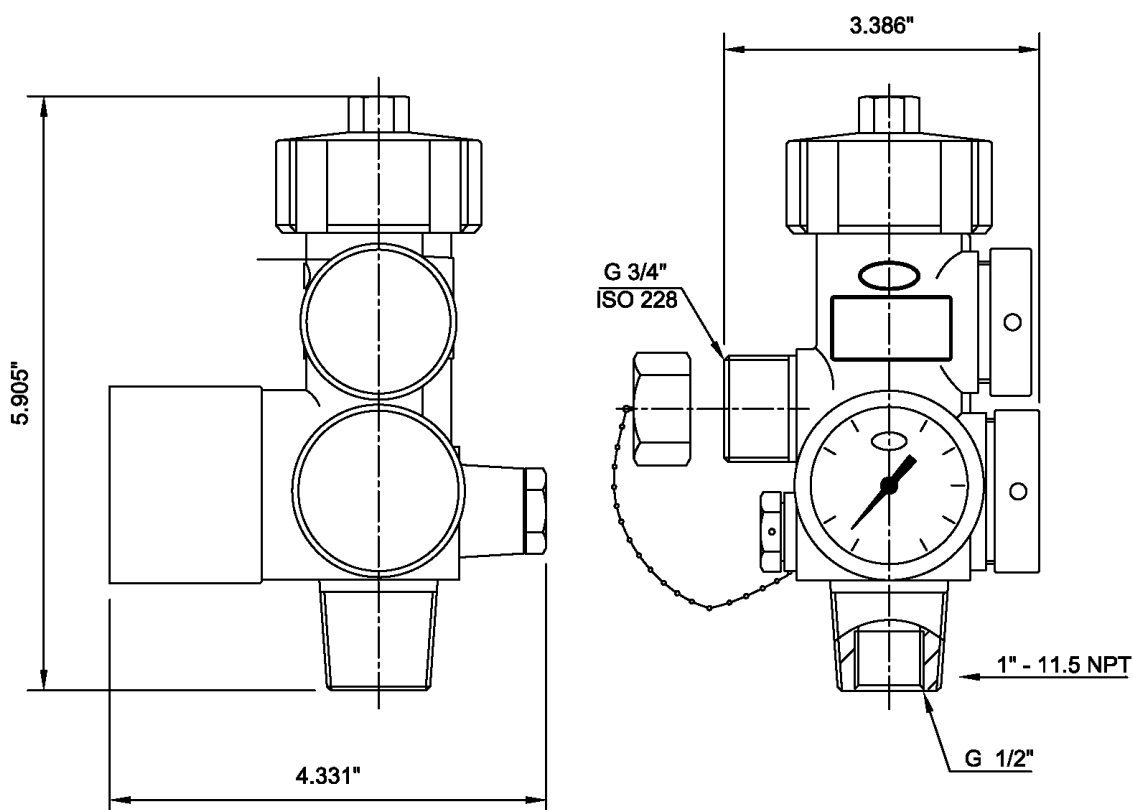
These valves are pressure differential valves. Actuation may be achieved by manual release, pneumatic release or electric release. They are supplied equipped with a pressure gauge/ pressure switch rated 0-1218 psi. A safety disk is incorporated against over pressurization set at 1378±1015 psi.

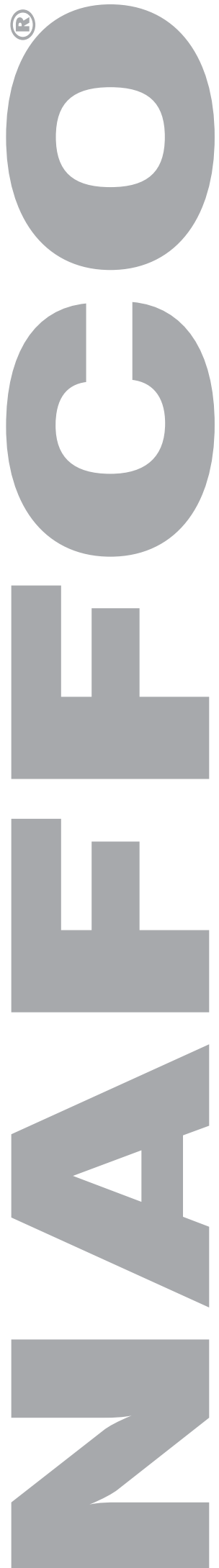
The relief valve device on the head cap prevents accidental cylinder discharge caused by micro leakage of pressure produced by some release devices.

The safety disk is set to burst and release the internal cylinder pressure when the pressure reaches values that exceed the cylinder test pressure. This device prevents an excessive rise in pressure (for example, due to overheating) that may cause the assembly to explode.



The burst disk allows actuation of manual and pneumatic release devices. When this disk bursts by means of the release system connected to it, the valve opens. Its set pressure does not allow bursting caused by cylinder over pressure.





TECHNICAL SPECIFICATION

Max. Working Pressure	1044 psi
Min. Working Pressure	101.5 psi
Working Pressure	609 psi
Hydraulic Test Pressure	3625.9 psi
Working Temperature	-4°F to +122°F
Safety Disc	1377 ±101.5 PSI
Weight	4.2 Lb
Free Cross Sectional Area	0.208 Inch ²
Equivalent Length	959.840" of 1" Schedule 40 pipe

MATERIALS

Body	Brass, UNI EN12420
Piston	Stainless Steel AISI303
Axle	Stainless Steel AISI303
Joint Holder	Stainless Steel AISI303
Sealing Joint	TEFLON PTFE
O-Ring	NBR/EPDM (UL)

OPTIONAL ACTUATION SYSTEMS: Electric by Solenoid, Pneumatic and Hand Lever Release

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