

DAFO FOMTEC AB NOVEC SYSTEMS

1230 System Cylinders

Designed with 3M™ Novec™ 1230 Fire Protection Fluid

ENGINEER AND ARCHITECT SPECIFICATIONS



**MODELS:
40, 76, 164, 322, 601 & 910**

- High flow rate valve
- Electric solenoid operation
- Horizontal or vertical mounting
- Clean Extinguishing Fluid Novec 1230

Optional:

- Liquid Level Indicator
- Manual Actuation
- Pneumatic Actuation
- Pressure Switch
 - Low Pressure
 - Operational

DESCRIPTION

Six cylinder sizes are available from 16 to 910 lb. Capacities. They can be filled as shown:

Cylinder Sizes	Allowable Fill (lbs.)	Catalog Numbers
40	16-40	CV140069
76	31- 76	CV140079
164	66 - 164	CV14817
322	129- 322	CV140057
601	241- 601	CV14813
910	390 - 910	CV14975

All sizes are filled with agent and then superpressurized with nitrogen to 360 psig or 500 psig at 70° F. They are manufactured, tested, and marked in accordance with D.O.T. specifications: 4BA500 or 4BW500 also available TPED.

Cylinder Valves

The cylinder valves are of a pressure-seated high flow rate design, in order to meet the rapid discharge time specified in NFPA 2001. Each has a brass body, a brass piston with resilient seat, a pressure releasing pilot check, a safety disc assembly, a pressure gauge, and an electric solenoid valve. This relieves the pressure above the piston and permits the piston to travel upward, thus fully opening the valve and permitting the agent to discharge through the outlet. The discharge outlet is fired with an anti-recoil plug, which is a safety device to prevent violent movement of the cylinder in the event of discharge while the cylinder valve is not connected to the piping system structure.

Each Novec™ 1230 fluid fill and use shall be in accordance with the instructions in the system design manual as required by UL Listing or FM approval.

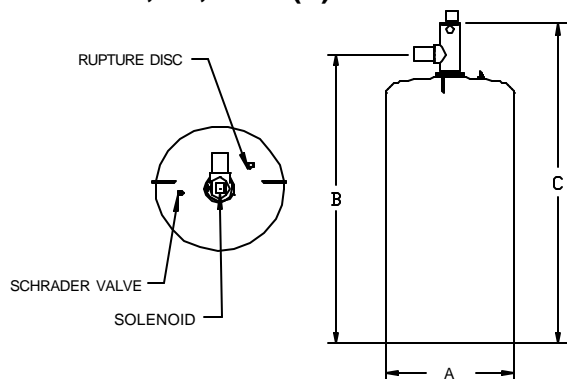


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CYLINDER ASSEMBLIES

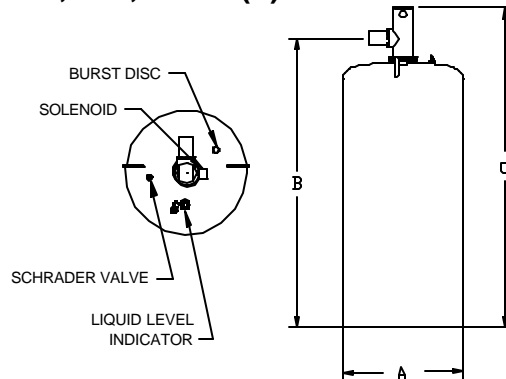
40, 76, & 164 (lbs)

15, 29, & 62 (L)



322, 601, & 975 (lbs)

122, 227, & 368 (L)



U.S. SIZES AND DIMENSIONS

Part No.	140069	140079	14817	140057	14813	14975
Cyl. Size (lbs)	40	76	164	322	601	910
Volume (ft ³)	0.53	1.02	2.19	4.3	8.02	13.0
Allowable Fill (lbs)	16-40	31-76	66-164	129-322	241-601	390-910
Weight (lbs)	38	52	98	220	320	448
A (in.)	10 ^{1/16}	10 ^{1/16}	12 ^{7/8}	20	20	24 ^{1/2}
B (in.)	17 ^{1/4}	28 ^{1/2}	37 ^{1/2}	33 ^{1/2}	54 ^{1/4}	60 ^{7/8}
C (in.)	21 ^{3/8}	32 ^{3/4}	42 ^{1/4}	39 ^{3/4}	61	67 ^{3/4}

METRIC SIZES AND DIMENSIONS

Part No.	140069	140079	14817	140057	14813	14975
Cyl. Size (L)	15	29	62	122	227	368
Allowable Fill (kg)	7-18	14-34.5	30-74.5	58.5-146	109-272.5	177-412
Weight (kg)	17.2	23.6	44.5	99.8	145.1	203.2
A (mm)	255.59	255.59	327	508	508	622.3
B (mm)	438.15	723.9	952.5	842	1378	1546.2
C (mm)	543	831.9	1073.2	1010	1457.33	1720.9