



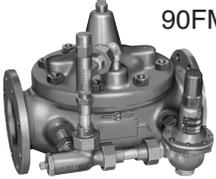
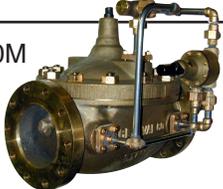
CLA-VAL

Quick Reference Catalog
Valves and Controls

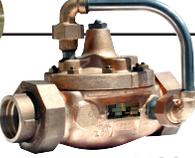
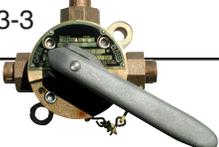
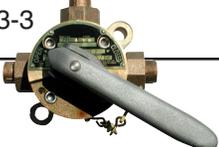


Shipboard Piping Systems Solutions

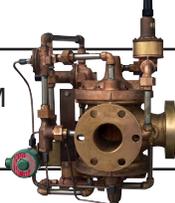
for Military Marine Applications

PRODUCTS	CLA-VAL CATALOG NO.	DESCRIPTION
 <p>90FM-2</p>	90FM-2	Pressure Reducing Valve
 <p>90M</p>	90M	Pressure Reducing Valve
 <p>50M</p>	50M	Pressure Relief Valve
 <p>50M-2</p>	50M-2	Pressure Relief Valve
 <p>50M-5</p>	50M-5	Remote Sensed Relief Valve
 <p>100M-1</p>	100M-1	Hytrol Valve
 <p>CSM5M-3A</p>	100M-1 EP NOTE:	Valve, Remote Control, Diaphragm Actuated
 <p>CM15M-A2-3</p>	CSM5M-3A	SOPV Valve
 <p>403M</p>	CM15M-A2-3	Manual Control
 <p>1626M</p>	403M	Filter Separators, Fluid, Pressure, Aviation and Diesel Fuel
 <p>CFF18M-H2</p>	1626M	Flanged Float Control for Filter Separators
	CFF18MT-H2 • with Tester CFF18M-H2 CFF19MT-H2 • with Tester CFF19M-H2 CFF21 M-H2	Hytrol Valve

SHIPBOARD SYSTEM (WHERE USED)	SIZES AVAILABLE	END CONNECTIONS		MILITARY SPECIFICATIONS
		TYPE	SPECIFICATION	
Sanitary Flushing System. Evaporator Cooling System.	1", 1 1/4", 1 1/2" & 2"	Union	MIL-F1183	MIL-V-2042B (SHIPS) VALVE AUTOMATIC REGULATING PRESSURE
	1 1/4", 1 1/2", 2", 2 1/2" 3", 3 1/2" & 4"	Flanged	MIL-F20042, Class 150 MIL-F-20042, Class 250	
	Gasoline or Jet Fuel Distribution.	4", 5", 6" & 8"	Flanged	MIL-F20042, Class 150 MIL-F-20042, Class 250
3" 4", 5", 6" & 8"		Flanged	MIL-F20042, Class 150 MIL-F-20042, Class 250	
Back Pressure Sustaining or Pressure Relief. Con- stant Pressure Pumping System.	1 1/2" through 8" (also 8" angle pattern)	Flanged	MIL-F20042, Class 150 MIL-F-20042, Class 250	
Fuel Oil Transfer System.	3/8", 3/4" 1 1/4", 1 1/2", & 2"	Union Flanged	MIL-F1183 MIL-F20042, Class 150 MIL-F-20042, Class 250	MIL-V-15508 (SHIPS) VALVE, REMOTE CON- TROL DIAPHRAGM ACTU- ATED, (FLUID SYSTEMS 150 & 250 PSI W.P.) TYPE I & TYPE II
	1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4", 5", 6" & 8"	Flanged	MIL-F20042, Class 150 MIL-F-20042, Class 250	
Fire Extinguishing for Ma- chinery Spaces. AFFF (Aqueous Film Forming Foam). "Light Water" Fire Protection System.	3/8"	Union	MIL-F1183	
	1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4", 5", 6" & 8"	Flanged	MIL-F20042, Class 150 MIL-F-20042, Class 250	MIL-F-15618 (SHIPS)
Fuel-Water Filter/Separa- tors for Av-Gas, JP-5, Diesel Fuel.	3/4"	Sil-Brazed	Nickel-Copper Pipe	FILTER SEPARATORS, FLUID, PRESSURE, AVIATION AND DIESEL FUEL CLASS 1 WITH AUTOMATIC DRAIN & FUEL SHUTOFF CONTROLS
		Flanged	MIL-F20042, Class 150	
		Flanged	MIL-F20042, 150 (B1624)	
	2"	Flanged	MIL-F20042, Class 150	
	3/4", 1", 1 1/4", 1 1/2", & 2"	Flanged Union	MIL-F20042, Class 150 MIL-F1183	

PRODUCTS	CLA-VAL CATALOG NO.	DESCRIPTION
<p>100PM-4</p>  <p>Navy Standard Valve</p> 	<p>100PM-4</p> <p>100PM-4B</p> <p>Note:</p> <p>Navy Standard Valve</p>	<p>Magazine Sprinkler Valve</p> <p>Magazine Sprinkler Valve</p> <p>EP suffix to catalog number indicates valve equipped with ethylene propylene elastomer. MS suffix to catalog number indicates valve equipped with limit switch.</p> <p>Dwg# 803-6397408 1 1/2"-8"</p>
 <p>81M</p>  <p>81PM-1</p>  <p>100M-1KR/KHR</p>	<p>81M</p> <p>81PM-1</p> <p>100M-1KR/KHR</p>	<p>Check Valve, Lift, Spring Loaded, Diaphragm Operated</p> <p>Check Valve, Hydraulically Operated Without .098 Orifice</p> <p>Valve, Remote Control, Diaphragm Actuated, Type I, Hydraulically Operated</p>
 <p>100M-1KR/KHR</p>  <p>CM15M-BA3-3</p>	<p>102M-1</p> <p>105M-1</p>	<p>Three-Way Hydraulic Control Valve</p> <p>Hydraulically Operated Control Valve</p>
 <p>CM15M-BA3-3</p>  <p>CM11M-BA3-3</p>  <p>CM11M-B2-3</p>  <p>CM15M-A2-3</p>  <p>X60M</p>	<p>CM15M-BA3-3</p> <p>CM11M-BA3-3</p> <p>CM11M-B2-3</p> <p>CM15M-A2-3</p> <p>X60M</p>	<p>Manual Control Valve }</p> <p>Manual Control Valve</p> <p>Manual Control Valve</p> <p>Manual Control Valve</p> <p>Orifice Flange Assembly (.063" or .098")</p>
 <p>100M-2</p>	<p>100M-2</p> <p>Note:</p>	<p>Sprinkling Valve (Normal Open)</p> <p>EP suffix to catalog number indicates valve equipped with ethylene propylene elastomer.</p>
<p>CSM5M-3A</p> 	<p>CSM5M-3A</p>	<p>Dual Solenoid Valve Control</p>

SHIPBOARD SYSTEM (WHERE USED)	SIZES AVAILABLE	TYPE	END CONNECTIONS SPECIFICATION	MILITARY SPECIFICATIONS
Magazine and Cargo Sprinkling (Dry and Wet Type).	1"	Union	MIL-F1183	MIL-V-17501 (SHIPS) Type I Class 1 and 2 SEA WATER SPRINKLING CONTROL VALVES
Foam System "AFFF". (Special Applications) Controls and Accessories for Sea Water Sprinkling Systems and "AFFF" Systems	1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4", 5", 6" & 8"	Flanged	MIL-F-20042, Class 250	
	1/4", 3/8", 3/4", 1", & 1 1/2"	Union	MIL-F1183	
	3/8"	Union	MIL-F1183	
	3/8"	Union	MIL-F1183	
Wet Type Magazine Sprinkling System	3/8" & 1/2"	Union	MIL-F1183	
	1"	Union	MIL-F1183	
...Magazine Sprinkling System (Local, Adjacent and Remote Control Stations).	3/8"	Union	MIL-F1183	
Through Bulkhead Mounting.	3/8"	Union	MIL-F1183	
Direct Control - Trash Burning Sprinkling	3/8"	Union	MIL-F1183	
	3/8"	Flanged	MIL-F20042, Class 150	
Wet Type - Magazine Sprinkling System	1/2"	Union	MIL-F1183	
Hangar Deck and Water Curtain Sprinkling.	1 1/2" through 6"	Flanged	MIL-F20042, Class 250	
Magazine Sprinkling System. Hangar Deck and Water Curtain Sprinkling. Elevator Shaft Foam Flooding.	3/8"	Union	MIL-F1183	

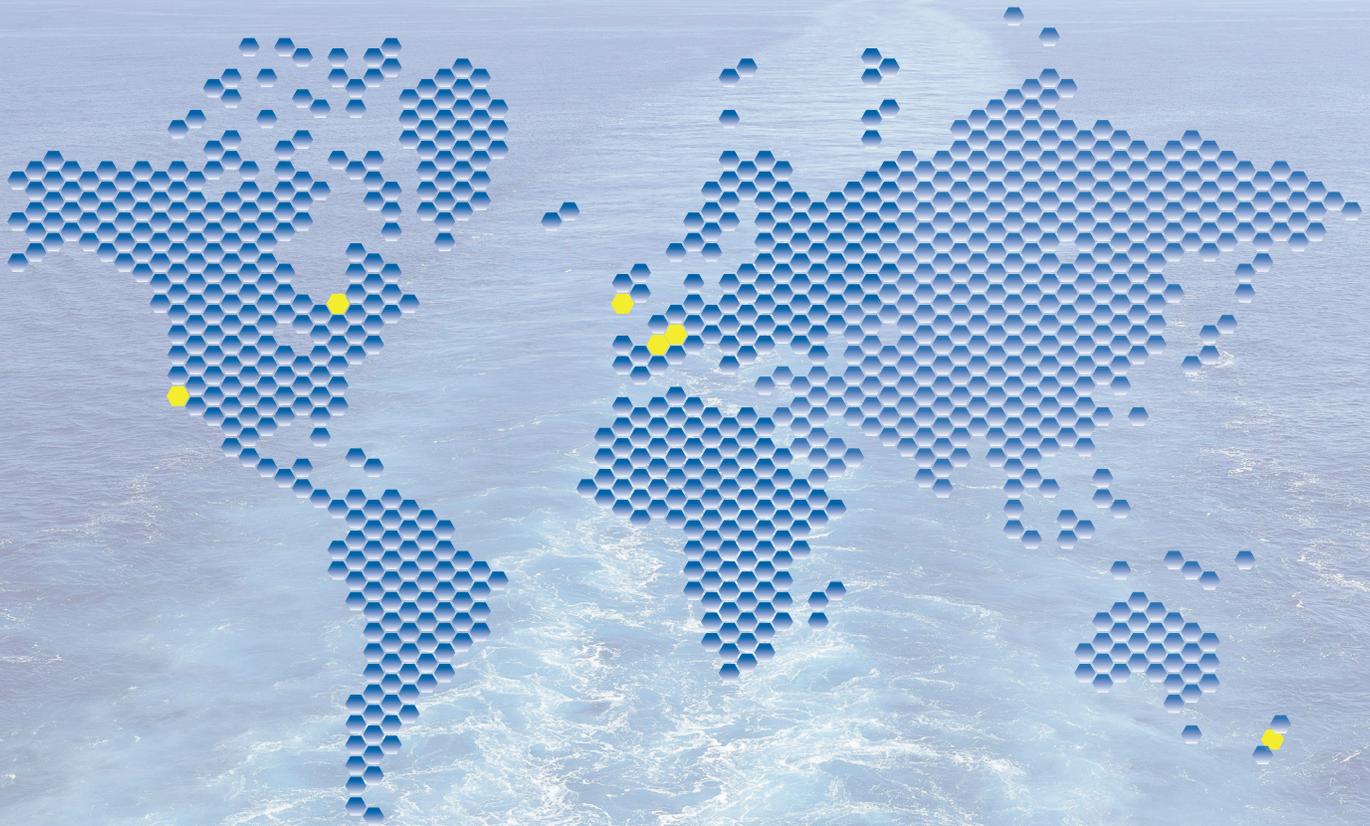
PRODUCTS	CLA-VAL CATALOG NO.	DESCRIPTION
100PM-3 	100PM-3	Powerrol Valve, hydraulically operated without provision for test fitting. EP suffix to catalog number indicates valve is equipped ethylene propylene elastomers.
81M-3 	81M-3 Note: 81M-8	Check Valve EP suffix to catalog number indicates valve is equipped ethylene propylene elastomers MS suffix to catalog number indicates valve is equipped with limit switch.
181PM-EP 	181M-EP 181PM-EP 181M-2	Hy-Check Valve (Sea Water) Power Hy-Check Valve (AFFF Concentrate) Hy-Check Valve
 22M  X69M	22M X69M	Back Pressure Regulating Valve Proportioning Assembly 4" for Type II System 5" for type III System
136M-2 	136M-2	Solenoid Control Valve
	136M-7B	Solenoid Control Valve
 50M-1	50M-1	Lube Oil Unloading Valve (Remote Sensing)
240M-3 	240M-3	Ballast Control Valve
 240M-4 	240M-4 CM10M-CP3-4 CM10M-AC3-4	Void Filling Valve Manual Control Valve (in Neutral Ports A & B are Closed) Manual Control Valve (in Neutral Ports A & B are Open to Drain)
302M 	302M	Automatic Fueling & Defueling Valve
 RP2M	RP2M RP9M	Backflow Preventer Backflow Preventer
	83M	Valve, Tank Sounding Tube, Floating Ball Check (Dwg,53711-803-5959276) NSN 1 H 4820-258-3954

SHIPBOARD SYSTEM (WHERE USED)	SIZES AVAILABLE	END CONNECTIONS		MILITARY SPECIFICATIONS
		TYPE	SPECIFICATION	
Fire Extinguishing for Machinery Spaces. "AFFF" Foam System.	3/4" and 1" 1", 2", 2 1/2", 3" 3 1/2", 4", 5" & 6"	Union Flanged	MIL-F1183 MIL-F20042, Class 150 MIL-F-20042, Class 250 *ASA Class 150 (B16.24)	MIL-V-17501 (SHIPS) WITHOUT PROVISION FOR TEST FITTING, TYPE I, CLASS 1 AND 2
Missile Booster Suppression System. Water Curtain Sprinkling. Water Injection System. "AFFF" Foam System.	2", 2 1/2", 3", 3 1/2", 4", 5", 6", 8" 10"	Flanged Flanged	MIL-F20042, Class 150 MIL-F-20042, Class 250 MIL-F-20042, Class 250	MIL-V-17547 TYPE B, CLASS 1 AND 2 VALVE, CHECK, BRONZE
"AFFF" Foam System. "AFFF" Foam System. "AFFF" Foam System.	1/2", 2", 2 1/2", 3", 4", 5" & 6" 1 1/2", 2", 2 1/2", & 3" 4", 5", & 6"	Flanged Flanged Flanged	MIL-F-20042, Class 250 MIL-F-20042, Class 250 MIL-F-20042, Class 250	NONE
"AFFF" Foam System. "AFFF" Foam System.	1 1/2" 4" & 5"	Flanged Flanged	MIL-F-20042, Class 250 MIL-F-20042, Class 250	MIL-P24589
Air Conditioning and Chilled Water Systems (Fresh).	1/2", 3/4", 1", 1 1/4" & 2" 1 1/2", 2", & 2 1/2"	Union Flanged	MIL-F1183 MIL-F20042, Class 150 *ASA Class 150 (B16.24)	NONE
Sea Water Control Valve. Miscellaneous Application	1 1/4", 1 1/2", 2"	Union Flanged	MIL-F1183 MIL-F-20042, Class 250	NONE
Lubricating System for Turbine Bearings.	2 1/2", 3", 4", 5" & 8" Straight or Angle Pattern	Flanged	ASTM B16.5	NONE
Sea Water Ballast System.	4", 6", 8", 10", 14" & 24"	Flanged	Non-Std. Dimensions Ductile Iron or Bronze	NONE
Wing Tank Void Filling. 4-Way Misc, Control Applications. 4-Way Wing Tank Void Filling.	8" & 10" 3/8", 1/2" & 3/4" 3/8", 1/2" & 3/4"	Flanged Flanged Flanged	Non-Std. Dimensions Socketed For Sil-Brazing Socketed For Sil-Brazing	NONE
Av Gas and Jet Fuel Systems on CV, LHA, LHD, LPD, LPH, Vessels.	2 1/2"	Flanged	MIL-F-20042, Class 250	NONE
Potable Water/Sea Water Isolation.	3/4", 1" 1 1/2" 2 1/2"	Union Flanged	MIL-F1183 MIL-F-20042, Class 250	NONE
	1 1/2"	Screwed	1 1/2"-11 1/2" NPSH	NONE



Global Headquarters: **CLA-VAL USA**

1701 Placentia Avenue • Costa Mesa, CA 92627
Phone: 949-722-4800 • Toll Free: 800-942-6326
www.cla-val.com • info@cla-val.com



Worldwide Locations:

CLA-VAL CANADA

4687 Christie Drive
Beamsville, Ontario, Canada L0R 1B4
Phone: (905) 563-4963 • sales@cla-val.ca

CLA-VAL EUROPE

Chemin des Mesanges 1
CH-1032 Romanel/Lausanne Switzerland
Phone: 41-21-643-15-55 • cla-val@cla-val.ch

CLA-VAL UK

Dainton House - Goods Station Road
GB - Tunbridge Wells
Kent TN1 2 DH England
Phone: 44-1892-514-400 • info@cla-val.co.uk

CLA-VAL FRANCE

Porte du Grand Lyon 1 • ZI de Champ du Périer
France - 01700 Neyon
Phone: 33-4-72-25-92-93 • cla-val@cla-val.fr

CLA-VAL PACIFIC

45 Kennaway Road
Woolston, Christchurch, 8023 • New Zealand
Phone: (64) 39644860 • info@cla-valpacific.com