

**Underwater Laboratories Inc.  
CPVC PIPES AND  
FITTINGS PERMIT**



**FM Standards  
COMPLIANCE WITH  
STANDARDS 1630**



**CPVC and Insulated Pipe Research Project Update**  
 Research 2011  
 In December 2010, FM Approvals issued a memorandum (CPVC) titled "CPVC and Insulated Pipe Research Project Update". The memorandum was issued to all FM Approvals members and was intended to provide information regarding the CPVC and Insulated Pipe Research Project. The memorandum was issued to all FM Approvals members and was intended to provide information regarding the CPVC and Insulated Pipe Research Project.

**Bureau of Fire Protection  
CPVC PIPES AND  
FITTINGS PERMIT**



**LIND HOTEL BORACAY**



**OUR LADY OF LOURDES HOSPITAL**



**FlameGuard™**  
 WORLD CLASS FIRE PROTECTION

**OTTILIE**  
 MARKETING INCORPORATED

ADDRESS: G/F Unit 102 #221 D. Tuazon cor Sta. Catalina  
 St., Quezon City  
 Telephone No.: 740-1064 / 740-1065 / 741-5401  
 Fax No.: 731-5590  
 www.ottilie-pipes.com.ph • sales@ottilie-pipes.com.ph



# FLAMEGUARD FIRE SPRINKLER SYSTEM

PEACE OF MIND FOR YOU AND YOUR LOVED ONES


The Flameguard Fire Sprinkler system ensures the utmost safety of your loved ones. Built with a durable, lightweight material, the cold fusion jointing capabilities of Flameguard CPVC® have been internationally tested and certified that allows for easy installation, no rust or corrosion guaranteed.

## FEATURES & BENEFITS


- *UL/FM Approval and Testing assuring utmost design performance*
- *Lasting quality without any maintenance required*
- *Hazen-Williams C Factor of 150 leading to lower pump rating requirements*
- *Easier to install than conventional systems with minimal tools required*


### DESCRIPTION DIMENSION ARTICLE NO.

FLAMEGUARD PIPE (SDR 13.5, 15' Lengths, Price per pc.)		
	3/4"	CP-007
	1"	CP-010
	1-1/4"	CP-012
	1-1/2"	CP-015
	2"	CP-020
	2-1/2"	CP-025
	3"	CP-030


TEE (Socket x Socket x Socket)		
	3/4"	4201-007
	1"	4201-010
	1-1/4"	4201-012
	1-1/2"	4201-015
	2"	4201-020
	2-1/2"	4201-025
	3"	4201-030

REDUCING TEE (Socket x Socket x Socket)		
	3/4" x 1	4201-102
	1 x 3/4 x 3/4	4201-125
	1 x 3/4 x 1	4201-126
	1 x 3/4	4201-131
	1-1/4 x 1 x 3/4	4201-157
	1-1/4 x 1 x 1	4201-158
	1-1/4 x 1 x 1-11/4	4201-159

90° ELBOW (Socket x Socket x Socket)		
	3/4"	4206-007
	1"	4206-010
	1-1/4"	4206-012
	1-1/2"	4206-015
	2"	4206-020
	2-1/2"	4206-025
	3"	4206-030

45° ELBOW (Socket x Socket)		
	3/4"	4217-007
	1"	4217-010
	1-1/4"	4217-012
	1-1/2"	4217-015
	2"	4217-020
	2-1/2"	4217-025
	3"	4217-030


CAP (Socket)		
	3/4"	4247-007
	1"	4247-010
	1-1/4"	4247-012
	1-1/2"	4247-015
	2"	4247-020
	2-1/2"	4247-025

COUPLING (Socket x Socket)		
	3/4"	4229-007
	1"	4229-010
	1-1/4"	4229-012
	1-1/2"	4229-015
	2"	4229-020
	2-1/2"	4229-025
	3"	4229-030

### DESCRIPTION DIMENSION ARTICLE NO.


MALE ADAPTER (MPT x Socket)		
	3/4"	4236-007
	1"	4236-010
	1-1/4"	4236-012
	1-1/2"	4236-013
	2"	4236-020

FLANGE (Socket x 4 Bolt Holes - 150lb)		
	3/4"	4251-007
	1"	4251-010
	1-1/4"	4251-012
	1-1/2"	4251-015
	2"	4251-020
	2 1/2"	4251-025

UNION (Socket x Socket)		
	3/4"	4257-007
	1"	4257-010
	1-1/4"	4257-012
	1-1/2"	4257-015
	2"	4257-020


BLUE 75 THREAD SEALANT		
	1/4 PINT	SB75-005
	1/2 PINT	SB75-010
	PINT	SB75-020
	QUART	SB75-030

FFS ONE STEP CLIENT		
	PRINT	FSS-020
	QUART	FSS-030


REDUCING TEE (Socket x Socket x Socket [Continued])		
	1-1/4 x 3/4	4201-167
	1-1/4 x 1	4201-168
	1-1/4 x 1-1/2	4201-169
	1-1/2 x 1-1/4 x 3/4	4201-201
	1-1/2 x 1-1/4 x 1	4201-202
	1-1/2 x 3/4	4201-210
	1-1/2 x 1	4201-211
	1-1/2 x 1-1/4	4201-212
	1-1/2 x 2	4201-213
	2 x 3/4	4201-248
	2 x 1	4201-249
	2 x 1-1/4	4201-250
	2 x 1-1/2	4201-251
	2-1/2 x 2	4201-289
	3 x 1	4201-335
	3 x 1-1/4	4201-336
	3 x 1-1/2	4201-337
	3 x 2	4201-338
	3 x 2-1/2	4201-339

### DESCRIPTION DIMENSION ARTICLE NO.


SPRINKLER HEAD TEE - SPECIAL REINFORCED PLASTIC THREAD STYLE (Socket x Socket x SR FIPF - Stainless Steel Collar)		
	1	4202-010SR
	3/4 x 1/2	4202-101SR
	1 x 3/4 x 1/2	4204-124SR
	1 x 1/2	4202-130SR
	1-1/4 x 1 x 1/2	4202-156SR
	1-1/4 x 1/2	4202-166SR
	1-1/4 x 1	4202-168SR
	1-1/2 x 1-1/4 x 1/2	4202-199SR

FEMALE SPRINKLER HEAD ADAPTER - BRASS THREAD INSERT STYLE		
	3/4 x 1/2	4235-101
	1 x 1/2	4235-130
	1 x 3/4	4235-131

FEMALE SPRINKLER HEAD ADAPTER - SPECIAL REINFORCED PLASTIC THREAD STYLE (Socket x SR FIPF - Stainless Steel Collar)		
	3/4 x 1/2	4235-101SR
	1 x 1/2	4235-130SR
	1 x 3/4	4235-131SR

REDUCER COUPLING (Socket x Socket)		
	1 3/4	4229-131
	1-1/4 x 3/4	4229-167
	1-1/4 x 1	4229-168
	1-1/2 x 3/4	4229-210
	1-1/2 x 1	4229-211
	1-1/2 x 1-1/4	4229-212
	2 x 3/4	4229-248
	2 x 1	4229-249
	2 x 1-1/4	4229-250
	2 x 1-1/2	4229-251
	2-1/2 x 1-1/2	4229-291
	2-1/2 x 2	4229-292

GROOVED COUPLING ADAPTER		
	1-1/4"	4233-012
	1-1/2"	4233-015
	2	4233-020
	2-1/2"	4233-025
	3	4233-030

REDUCING CROSS		
	3/4"	4220-007
	1	4220-010
	1-1/4"	4220-012
	1-1/2"	4220-015
	2	4220-020
	2-1/2"	4220-025
	3	4220-030