# SYSTEM 636 FLUE GAS VENTING

# PVC 1-1/2" - 6" (40mm - 150mm) CPVC 1-1/2" - 8" (40mm - 200mm)

# System 636°

The use of plastic venting systems on gas fired water heaters, furnaces and boilers has undergone a significant change. CSA B149.1 Natural Gas and Propane Installation Code now requires all special venting material to be certified to ULC S636 across Canada. IPEX addressed this market need with System 636, a fully certified flue gas vent system.

Since the inception of System 636, IPEX has made numerous product line additions and extensions to now offer the most complete product offering in the market. Also, System 636 is very professionally represented by IPEX with sales, technical, code issues and training support.

Front and centre to aid installers and inspectors is the System 636 Installation Guide. The contents of this guide are part of the certification process and contain many

important aspects of installation to ensure successful, codecompliant installations. Issues addressed in the Guide include support spacing, expansion and contraction, solvent welding procedures and special installation and terminations.



# APPLICATIONS

- Flue Gas Venting
- · Residential or Commercial

# STANDARDS



# DID YOU KNOW?

To help fully understand the procedures for cementing PVC and CPVC System 636 versus traditional ABS material, IPEX offers an on-line System 636 solvent welding refresher course.

# ADVANTAGES

- ) Fully certified as a complete pipe, fittings and cement system.
- ) 2 system options cover a broad range of operating temperatures.
- 3 Manufactured and supported by the Canadian PVC & CPVC piping system experts.
- (4) No mixing clause of ULC S636 ensures full compatibility of all pipe, fittings and cement.



# TWO CERTIFIED SOLUTIONS

# SYSTEM 636 PVC

System 636 PVC is classified as Type BH Class II A vent, suitable for use on appliances with flue gas temperatures up to and including 65°C (149°F). Sizes include 40, 50, 65, 75 and 100mm (1-1/2", 2", 2-1/2", 3", 4" and 6"). Coloured white with unique blue certification markings, System 636 PVC pipe is made to sturdy Sch. 40 dimensions to provide a strong, rigid pipe for the application. A full range of certified vent fittings and accessories offered.



# SYSTEM 636 CPVC

System 636 CPVC is classified as Type BH Class II B vent, suitable for use on appliances with flue gas temperatures up to and including 90°C (194°F). CPVC sizes include 40, 50, 65, 75, 100, 150 and 200mm (1-1/2", 2", 2-1/2", 3",4", 6" and 8"). Coloured grey, System 636 CPVC pipe is also made to sturdy Sch. 40 dimensions to be tough enough for the application's demands.





System (

# SYSTEM 636 CEMENTS & PRIMERS

System 636 PVC & CPVC solvent cements are specifically formulated and certified for flue gas venting applications. Primer is always required for 6" and 8" (150 mm and 200 mm) piping systems and for all installations performed at temperatures of 0°C (32°F) or less. 75

# THREE CERTIFIED WAYS TO TERMINATE YOUR SYSTEM 636® FLUE GAS VENTING SYSTEM



#### UNIVERSAL CONCENTRIC VENT KITS (UCVK™)

The System 636 UCVK<sup>™</sup> offers horizontal coaxial termination specifically for venting tank-less water heaters installed on an exterior wall. An engineered air intake hub, pivots to accommodate the spacing requirements between the fresh air, and exhaust collars for the majority of tankless water heaters offered on the market today. Designed utilizing the fundamentals of the Concentric Vent kits, the 2" and 3" UCVK is made to optimize productivity through ease of installation.

#### CONCENTRIC KITS (PVC & CPVC)

System 636 Concentric Kits, are available in a variety of lengths and come in 2", 3" and 4" diameters. These "pipe-in-pipe" kits allow for both exhaust and intake pipes to penetrate the roof or side wall through only one hole. The concentric vent kits are now certified with mechanically fastened rain caps. When installed with the included stainless steel screw/nut the rain cap can be easily removed for cleaning or replacement.







# SIDE WALL KITS (PVC)

For a traditional vent style, IPEX's PVC Side Wall Vent Kits are available in convenient 2", 2-1/2" and 3" sizes. These PVC kits require only two small wall penetrations for intake and exhaust. Kits include a white finishing plate with a self sealing foam back that can be screwed to the exterior wall.

#### LOW PROFILE TERMINATION KITS (PVC)

The kits offer a lower profile alternative to the typical two pipe side wall termination kit. They include integrally molded vent screens, and the design neatly disguises both the intake and exhaust. Each kit is molded with a ULC S636 certified beige PVC compound.

#### **VENT SCREENS**

IPEX also offers 2", 3", 4", 6" and 8" vent screens to prevent debris and rodents from entering and plugging the venting system. These non-certified vent screens can be friction fit in any IPEX termination kit.

#### ROUND FACE PLATES

These round face plates are the perfect accessory for single wall penetrations like the Concentric Vent Kits, or in instances where two pipes are too far apart to use a two hole termination kit. The face plates help cover unsightly bore holes created during the pipe installation. They are available in both white and grey to match the certified vent pipe, and each plate includes a self sealing foam back.







	Material	Dimei inches	nsion mm	Product Code
Gas Vent Pipe	Plain En	d (10ft lei	ngths)	
		1-1/2	40	194003
		2	50	194000
		2-1/2	65	194004
	PVC	3	75	194001
		4	100	194002
		6	150	194011
		1-1/2	40	198003
		2	50	198001
	CPVC	2-1/2	65	198004
		3	75	198000
		4	100	198002
	CPVC	6	150	198005
	LG DIA.	8	200	198006

# FGV 22-1/2° Elbow H x H

	PVC	2	50	196252
A				

# FGV 45° Elbow H x H

		1-1/2	40	196241
		2	50	196242
9	PVC	2-1/2	65	196487
		3	75	196243
		4	100	196244
	CPVC	2	50	197169
		3	75	197171
		4	100	197172
	CPVC	6	150	197173
	LG DIA.	8	200	197174

# FGV 45° Long Elbow H x H

PVC	2	50	196010
PVC	3	75	196011

	Material	Dimer	nsion	Product
	Material	inches	mm	Code
FGV 45° Elbow	Н х Ѕр			
	PVC	2	50	196071
	PVC	3	75	196223

# FGV 90° Elbow H x H

R

		2	50	196035
		2-1/2	65	196525
	PVC	3	75	196025
		6	150	196140
		2	50	197199
	CPVC	3	75	197201
		4	100	197202
-	CPVC	6	150	197203
	LG DIA.	8	200	197204

# FGV 90° Long Elbow H x H

		1-1/2	40	196121
10		2	50	196122
	PVC	2-1/2	65	196120
J		3	75	196123
		4	100	196124
		2	50	197122
	CPVC	3	75	197123
		4	100	197124
	CPVC	6	150	197125
	LG DIA.	8	200	197126

# FGV 90° Extra Long Elbow H x H

PVC



0 00	пхп	
2	50	196022
3	75	196023

# FGV 90° Street Elbow Sp x H

PVC	2	50	196232
PVC	3	75	196233

	Material			Product
		inches	mm	Code
′ Тее н х н	хH			
	PVC	2-1/2	65	196781
		2	50	197486
$\langle () \rangle$	CPVC	3	75 100	197488 197489
		6	150	197409
	CPVC LG DIA.	8	200	197490
		Ū	200	177 171
ee-Wye	нхнхн	1-1/2	40	196081
2		2	50	196082
10	PVC	3	75	196083
	1.00	4	100	196084
		6	150	196785
Reducer	Tee-Wye	НхНхН		
	,	2 x 1-1/2	50 x 40	196056
		3 x 1-1/2	75 x 40	196061
(n)	PVC	3 x 2	75 x 50	196185
X		4 x 2	100 x 50	196184
		4 x 2	100 x 50	196184
			100 x 50	196184
educer	Гее н х н	хH		
Reducer	<u>Гее н x н</u> РVС	x H 3 x 2	75 x 50	196822
Reducer		x H 3 x 2 4 x 2	75 x 50 100 x 50	196822 196828
educer		x H 3 x 2 4 x 2 3 x 2	75 x 50 100 x 50 75 x 50	196822 196828 197502
Reducer	PVC CPVC	x H 3 x 2 4 x 2 3 x 2 4 x 2	75 x 50 100 x 50 75 x 50 100 x 50	196822 196828 197502 197504
Reducer	PVC CPVC CPVC	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4	75 x 50 100 x 50 75 x 50 100 x 50 150 x 150 x 100	196822 196828 197502 197504 197506
Reducer	PVC CPVC	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4	75 x 50 100 x 50 75 x 50 100 x 50	196822 196828 197502 197504 197506
Reducer	PVC CPVC CPVC	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4	75 x 50 100 x 50 75 x 50 100 x 50 150 x 150 x 100	196822 196828 197502 197504 197506
	PVC CPVC CPVC LG DIA.	x H 3x2 4x2 3x2 4x2 6x6x4 8x8x6	75 x 50 100 x 50 75 x 50 100 x 50 150 x 150 x 100	196822 196828 197502 197504 197506 197567
	PVC CPVC CPVC LG DIA.	x H 3x2 4x2 3x2 4x2 6x6x4 8x8x6	75 x 50 100 x 50 75 x 50 100 x 50 150 x 150 x 100	196822 196828 197502 197504 197506
	PVC CPVC LG DIA.	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4 8 x 8 x 6	75 x 50 100 x 50 75 x 50 100 x 50 150 x 150 x 100 200 x 200 x 150	196822 196828 197502 197504 197506 197567
	PVC CPVC CPVC LG DIA.	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4 8 x 8 x 6 FTP 1-1/2	75 × 50 100 × 50 100 × 50 100 × 50 200 × 200 × 150 200 × 200 × 150	196822 196828 197502 197504 197506 197567 197567 196510 196512
	PVC CPVC LG DIA.	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4 8 x 8 x 6 FTP 1-1/2 2 3 4	75 x 50 100 x 50 100 x 50 100 x 50 150 x 150 x 100 200 x 200 x 150	196822 196828 197502 197504 197506 197567 197567 196510 196512 196513
	PVC CPVC LG DIA.	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4 8 x 8 x 6 FTP 1-1/2 2 3 4 1-1/2	75 × 50 100 × 50 100 × 50 100 × 50 200 × 200 × 150 200 × 200 × 150	196822 196828 197502 197504 197506 197567 197567 196510 196512 196513 196513
	PVC CPVC LG DIA.	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4 8 x 8 x 6 FTP 1-1/2 2 3 4 1-1/2 2 3	75 × 50 100 × 50 100 × 50 100 × 50 150 × 150 × 100 200 × 200 × 150 40 50 75 100 100 40 50	196822 196828 197502 197504 197504 197507 197507 196510 196513 196513 197510
AV Reducer	PVC CPVC LG DIA.	x H 3 x 2 4 x 2 3 x 2 4 x 2 6 x 6 x 4 8 x 8 x 6 FTP 1-1/2 2 3 4 1-1/2	75 × 50 100 × 50 100 × 50 150 × 150 × 100 200 × 200 × 150 40 50 50 75 100	196822 196828 197502 197504 197506 197567 197567 196510 196512 196513 196513

GAS VENTING

FLUE

636

SΥSTEM

	Material	Dimer	ision	Product
	Material	inches	mm	Code
FGV Reducer E	Bushing S	SP x H		
PVC		1-1/2 x 1/2	40 x 15	196653
		2 x 1-1/2	50 x 40	196282
		2-1/2 x 1-1/2	65 x 40	196666
	PVC	2-1/2 x 2	65 x 50	196667
		3 x 2	75 x 50	196284
		3 x 2-1/2	75 x 65	196673

# Material Dimension Product inches mm Code

196256

197256

# FGV Universal Concentric Vent Kit (UCVK™)

PVC	3 x 24	75 x 600
CPVC	3 x 24	75 x 600

#### FGV Concentric Vent Kit

#### FGV Reducer Bushing Sp x Hose Barb

PVC	1-1/2 x 1/2	40 x 15	196278
CPVC	1-1/2 x 1/2	40 x 15	197278

#### FGV HEX Head Reducer Bushing Sp x H

	PVC	3 x 2	75 x 50	196672
		2 x 1/2	50 x 15	197385
		2 x 3/4	50 x 20	197386
	CPVC	2 x 1-1/2	50 x 40	197389
		3 x 2	75 x 50	197394
		3 x 2-1/2	75 x 65	197395
		4 x 2	100 x 50	197396
	CPVC	6 x 4	150 x 100	197400
	LG DIA.	8 x 6	200 x 150	197401

# FGV Female Thread Adapter H x FPT

PVC	2	50	196564
CPVC	2	50	197224

# FGV Condensate Drain Assembly Sp x FPT

		197002
1/2 15	50 x 15	197003

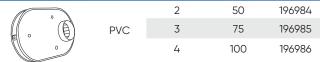
	10 101101	(i) C		
		2 x 16	50 x 400	196005
$\bigcap$		2 x 28	50 x 700	196105
		2 x 40	50 x 1000	196125
	PVC	3 x 20	75 x 500	196006
longth		3 x 32	75 x 800	196106
Length		3 x 44	75 x 1100	196116
		4 x 36	100 x 900	196021
		2 x 16	50 x 400	197040
40		2 x 28	50 x 700	197033
$\Box$	CPVC	3 x 20	75 x 500	197009
	CPVC	3 x 32	75 x 800	197107
		3 x 44	75 x 1100	197117
		4 x 36	100 x 900	197021
			not included	

Vent Screen not included

# FGV Wall Termination Kit



# FGV Low Profile Termination Kit (Beige)



	inche	Dimensior s	ר mm	Product Code
ceplate – R	ound (w/	self sealir	ng foam k	back)
		2	50	196063
		3	75	196064
$\bigcirc$	PVC	4	100	196055
	FVC	2 grey	50	197053
		3 grey	75	197054
		4 grey	100	197055
	ç	grey matche	es CPVC	
ceplate – R	ectanaul	ar (white v	v/ self seal	ina foam back
	2		50	196216
	2-1/2		65	196218
00	3		75	196219
	[ 3 [ 4 = 6 = 8 Vent screen Friction fit ve bells to prev vent.	ent screens i	inside termir	nation fitting
	[ Polyethyle	ene = S	tainless Ste	eel
burring Too			100 :	10/0//
TO MAN	1-1/2 to 4	pipe 40	to 100 pipe	e 196246
	To ensure q deburr all p guidance o 200mm) pip	ipe ends pri n deburring	or to ceme 6" & 8" (150	
itter				

# Volume<br/>iperialProduct<br/>CodeC cement (LOW VOC)1/4 pint118\$yiten6361 pint473196040

946

1 quart

196041

# CPVC cement (LOW VOC)

	1 pint	473	196046
System 636	1 quart	946	196047
System 636	also certified for transitions to PVC		

# PVC / CPVC Primer (LOW VOC)

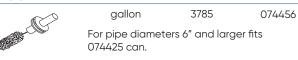
Syste	System 636	1
Syste	am 636	
		ļ

1/4 pint (purple)	118 (purple)	296367
1 pint (purple)	473 (purple)	196042
1 pint (clear)	473 (clear)	196017
1 quart (purple)	946 (purple)	196043

- Primer shall be used when installing System 636<sup>®</sup> PVC or CPVC products at temperatures below 0°C (32°F).
- Primer is always required on 6" & 8".
- Primer is required in some jurisdictions regardless of temperature, verify with your local Authority Having Jurisdiction.

Note: Use only System 636 cements and primers. Substituting other cements and primers will void certification and warranty. All pint and quart cans supplied with dauber (applicator) for use up to 4".

#### Swab



80