

Piping Layout (Pressure System)

Tank Sumps, Tank Sump Systems and Accessories

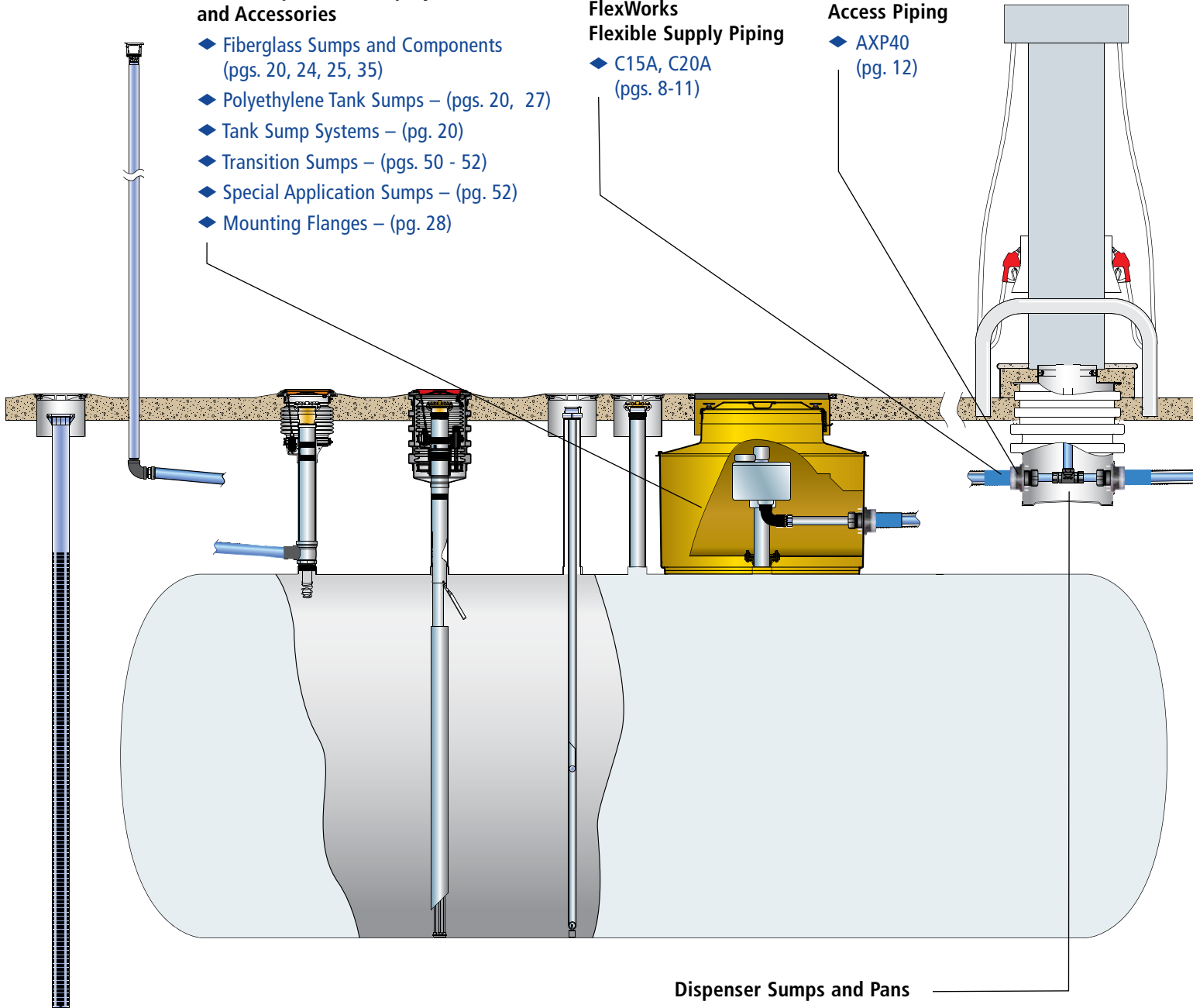
- ◆ Fiberglass Sumps and Components (pgs. 20, 24, 25, 35)
- ◆ Polyethylene Tank Sumps – (pgs. 20, 27)
- ◆ Tank Sump Systems – (pg. 20)
- ◆ Transition Sumps – (pgs. 50 - 52)
- ◆ Special Application Sumps – (pg. 52)
- ◆ Mounting Flanges – (pg. 28)

FlexWorks Flexible Supply Piping

- ◆ C15A, C20A (pgs. 8-11)

Access Piping

- ◆ AXP40 (pg. 12)

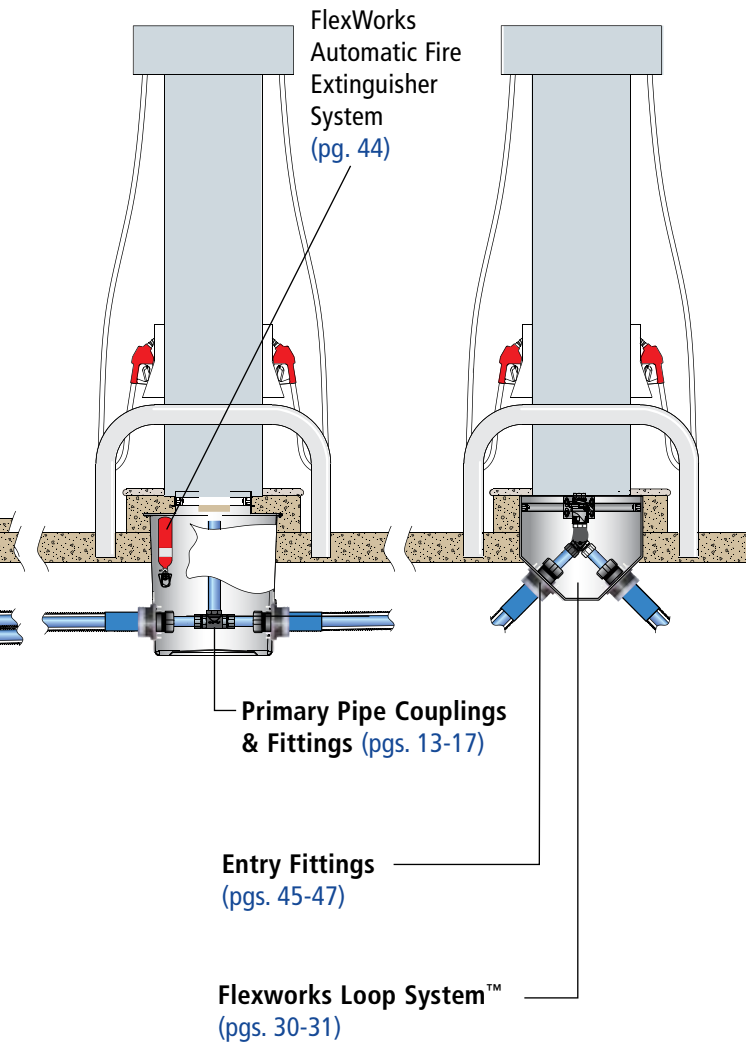


Dispenser Sumps and Pans

- ◆ Polyethylene Sumps (pg. 38)
- ◆ Wide Access Polyethylene (pg. 37)
- ◆ Polyethylene Pans (pg. 39)
- ◆ Fiberglass (pg. 36)
- ◆ Wide Access Fiberglass (pg. 35)
- ◆ Dispenser Sump Accessories (pg. 41)
- ◆ Dispenser Sump Selection Chart (pgs. 42-43)



The complete Environmental System for underground fuel transfer and containment for the 21st century.



OPW Innovative Fueling Solutions

The heart of FlexWorks is an advanced, flexible piping system that can be installed quickly and easily in a variety of configurations. Flexible piping eliminates the need for buried piping joints, which are notorious leak points in rigid piping systems. In a pressure system, the submersible pump is connected in series directly to the dispensers with a continuous run of flexible pipe. In a suction system, a continuous run of flexible pipe connects the tank to the suction pump dispenser. All piping connections at the tank and dispensers are contained in sumps.

The primary fuel pipe is available with an integral secondary containment pipe, which can be inserted into a dual layer, corrugated access pipe. The crush-resistant access pipe protects the primary pipe from the backfill while serving as an added layer of protection. The access pipe also affords the added advantage of primary pipe retractability. Future inspection, repair or replacement of the primary pipe is achievable without excavation.

The FlexWorks System features highly integrated components that interconnect seamlessly to provide reliable Secondary Containment. FlexWorks dispenser sumps are custom made for each particular dispenser footprint. FlexWorks tank sumps afford raintight containment for and accessibility to submersible pumps and UST equipment. A variety of FlexWorks entry fitting styles and sizes ensure the availability of a custom-designed solution for virtually every piping application.

FlexWorks by OPW is the complete Environmental System for underground fuel transfer and containment for the 21st century.

**Listings and
Certifications**



FlexWorks Supply Piping

Why flex pipe?

OPW developed FlexWorks Pipe in response to customer feedback. You asked and we delivered! The pipe is more flexible, lighter and has reduced memory. Pipe can also be replaced without breaking concrete.

Elimination of potential underground leak points

- ◆ No underground fittings or joints
- ◆ No hand-built field joints
- ◆ All termination points are contained safely inside sumps
- ◆ Termination joints precision swaged to simulate factory made assemblies

Light, Flexible, & Easy to Install. ULC Approved for All Fuels

ULC APPROVAL

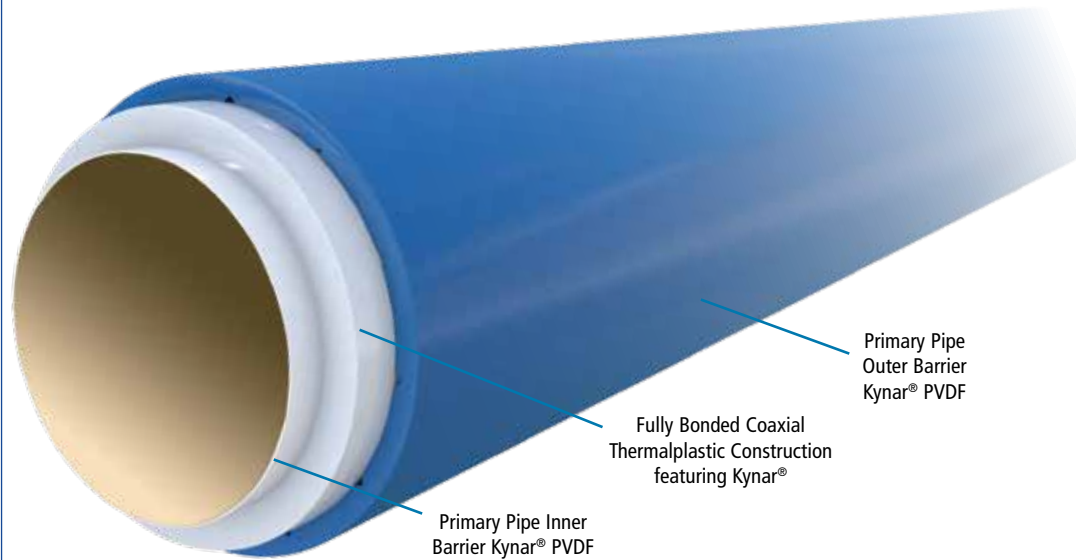
- ✓ Motor Vehicle Fuels
- ✓ High Blend Fuels
- ✓ Concentrated Fuels
- ✓ Aviation and Marine



See pages 141 - 144 for details on the OPW DEF System

FlexWORKS

Celebrating Over 20 Years of Success Through Piping Excellence



What Makes This Pipe Different? Lower installation costs

- ◆ **Eliminates the hassles** – installation time and potential leak points of rigid pipe installations
- ◆ **Fast and easy installation** – results in less installation labor, time and cost
- ◆ **Eliminates burdensome cutting, fitting, and cleaning**
- ◆ **No adhesives** – heat assists, curing problems or electrofusion welding of joints
- ◆ **Easy to bend** – no special fittings to install in order to make bends

Ordering Specifications - Sizing Matrix

New Pipe Part #	ID	Description
C075A-250		Double Wall Primary Pipe, 250'
C075A-1000		Double Wall Primary Pipe, 1000'
C075A-SB	3/4"	Double Wall Primary Pipe 3/4" I.D. Short Box, 1' - 249'
C075A-SR		Double Wall Primary Pipe 3/4" I.D. Short Reel, 260' - 490'
C075A-MR		Double Wall Primary Pipe, Mega Reel, 2000'
C10A-250		Double Wall Primary Pipe, 250'
C10A-1000		Double Wall Primary Pipe, 1000'
C10A-SB	1"	Double Wall Primary Pipe 1.0" I.D. Short Box, 1' - 249'
C10A-SR		Double Wall Primary Pipe 1.0" Short Reel, 20' - 990'
C10A-MR		Double Wall Primary Pipe, Mega Reel, 2000'
C15A-250		Double Wall Primary Pipe, 250'
C15A-500		Double Wall Primary Pipe, 500'
C15A-1000		Double Wall Primary Pipe, 1000'
C15A-1225		Stick Pipe* 1 1/2" 12 Pieces At 25', 12 per box
C15A-1233	1 1/2"	Stick Pipe* 1 1/2" 12 Pieces At 33', 12 per box
C15A-1240		Stick Pipe* 1 1/2" 12 Pieces At 40', 12 per box
C15A-SB		Double Wall Primary Pipe 1.5" I.D. Short Box, 50' - 240', 10' increments
C15A-SR		Double Wall Primary Pipe 1.5" I.D. Short Reel, Less than 500', 10' increments
C15A-MR		Double Wall Primary Pipe, Mega Reel, 1010' - 1400'
C20A-250		Double Wall Primary Pipe, 250'
C20A-500		Double Wall Primary Pipe, 500'
C20A-1225		Stick Pipe* 2.0" Double Wall 12 Pieces At 25', 12 per box
C20A-1233	2"	Stick Pipe* 2.0" Double Wall 12 Pc @ 33', 12 per box
C20A-SB		Double Wall Primary Pipe, 2.0" I.D. Short Box, 50' - 240', 10' increments
C20A-SR		Double Wall Primary Pipe, 2.0" I.D. Short Reel, 260' - 490', 10' increments
C20A-MR		Double Wall Primary Pipe, Mega Reel, 800', 510' - 800', 10' increments
C30A-200		Call For Availability. 3" Double Wall Primary Pipe, Lengths up to 200'
C30A-MR	3"	3" Double Wall Primary Pipe, 200' to Max 350'
C30A-SR		Call For Availability. 3" Double Wall Primary Pipe, Lengths up to 200'

* Increased lead time may apply

FlexWorks Supply Piping

OPW's FlexWorks Pipe is more flexible, lighter and has reduced memory to aid installation and is UL approved for all fuels.

Flexible Supply Piping

OPW FlexWorks flexible piping utilizes fully bonded, premium Kynar® PVDF construction throughout to offer complete peace-of-mind protection, performance, installation ease and advantages over rigid and semi-rigid pipe.

Features & Benefits:

- ◆ Lower installation costs
 - ◆ Eliminates the hassles – installation time and potential leak points of rigid pipe installations
 - ◆ Easy installation – results in less installation time
 - ◆ Eliminates burdensome cutting, fitting, and cleaning
 - ◆ No adhesives – heat assists, curing problems or electrofusion welding of joints
 - ◆ Easy to bend – no special fittings to install in order to make bends
- Eliminates potential underground leak points:**
- ◆ No underground – fittings or joints
 - ◆ No hand-built field joints
 - ◆ All termination points are contained in sumps
 - ◆ Termination joints precision swaged to simulate factory-made assemblies

Double Wall Flexible Piping:

UL 971 Listed, Integral Primary/Secondary, Normal Vent & Vapor Piping, Gasoline, Aviation & Marina Fuels:

A UL-listed, double-wall, flexible supply piping system is designed for installation within Access piping (not required but recommended). The outer containment pipe includes inner stand-off ribs to create a small interstitial space which allows for optimum fluid migration, continuous monitoring and easy periodic testing. This piping features an enhanced construction that meets the new UL971 standard. OPW's FlexWorks double-wall piping has both the primary and secondary containment pipe UL-listed and is labeled as follows: INTEGRAL PRIMARY/SECONDARY FOR MOTOR VEHICLE FUELS.

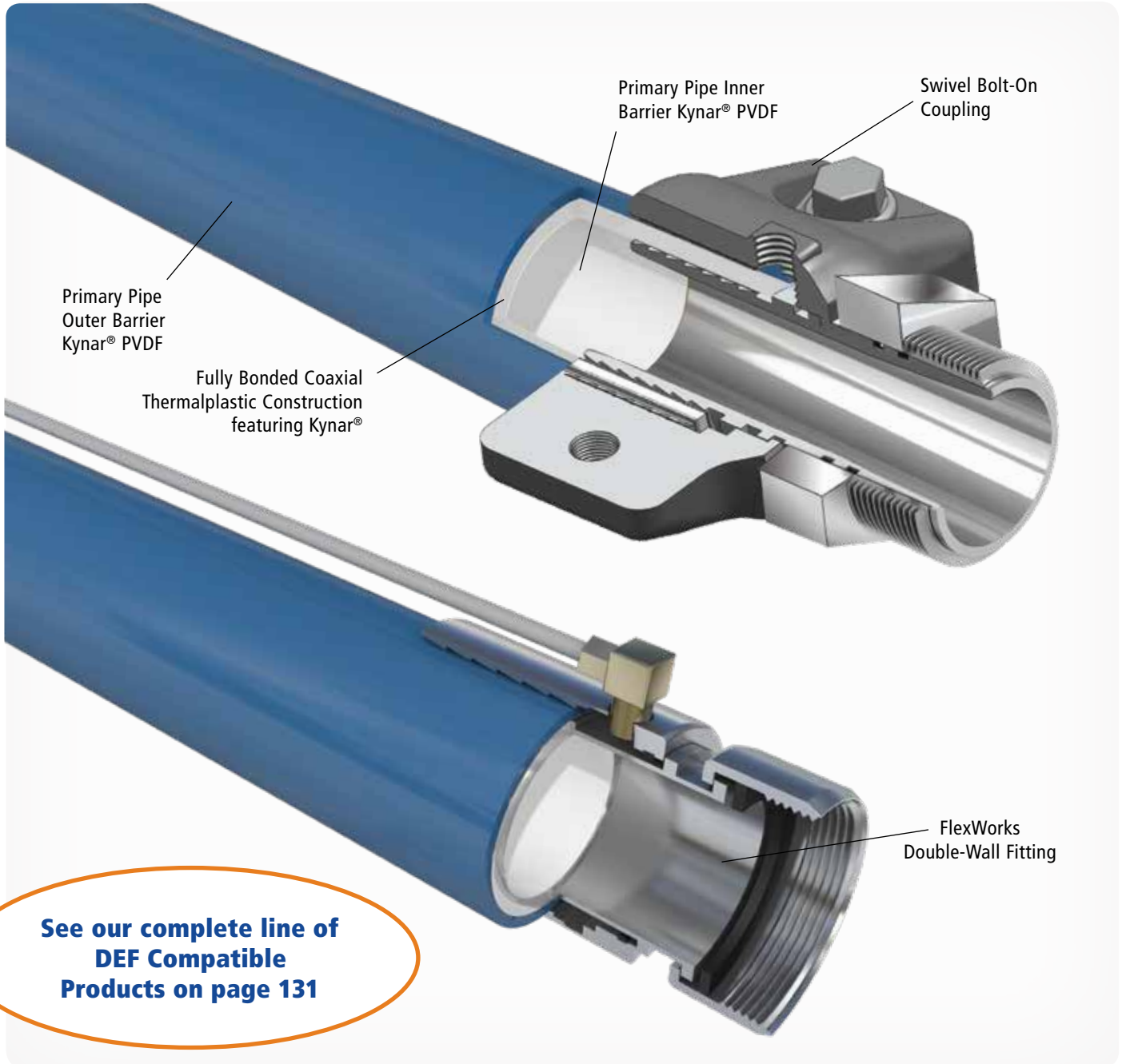
Ordering Specifications* - FlexWorks Double-Wall Product Piping

Part #	Application	Minimum Bend Radius		Packaging		Dimensions				Box/Reel Size (in.)	Box/Reel Weight	
		in.	mm			I.D.	O.D.	in.	mm		lbs.	kg
C075A-250	Double-Wall Primary Pipe, ¾"	18	457	Box	250 ft	.75	19	1.18	29	44x44x25	134	61
C075A-1000	Double-Wall Primary Pipe, ¾"	18	457	Reel	1000 ft	.75	19	1.18	29	58x58x48	527	239
C10A-250	Double-Wall Primary Pipe, 1"	18	457	Box	250 ft	1.0	25	1.50	38	44x44x25	169	77
C10A-1000	Double-Wall Primary Pipe, 1"	18	457	Reel	1000 ft.	1.0	25	1.50	38	58x58x48	605	274
C15A-250	Double-Wall Primary Pipe, 1.5"	24	610	Box	250 ft.	1.5	38	2.00	51	38x45x30	240	109
C15A-500	Double-Wall Primary Pipe, 1.5"	24	610	Reel	500 ft.	1.5	38	2.00	51	58x58x48	605	274
C15A-1000	Double-Wall Primary Pipe, 1.5"	24	610	Reel	1000 ft.	1.5	38	2.00	51	58x58x48	980	444
C20A-250	Double-Wall Primary Pipe, 2"	36	914	Box	250 ft	2	51	2.50	63.5	63x63x33	192	87
C20A-500	Double-Wall Primary Pipe, 2"	36	914	Reel	500 ft.	2	51	2.50	63.5	68x68x48	770	349
C30A-200	Double-Wall Primary Pipe, 3"	72	1828	Reel	200 ft	3	76	3.50	88	63x63x33	652	296
C30A-MR*	Now available											

* OPW also offers short and custom lengths of pipe, as well as pipe packaged and shipped on Mega Reels. Please contact our Customer Service department at 1-800-422-2525, or visit us on the web at www.opwglobal.com for the most up-to-date information.

Flexible Piping Manual
Order Number: **UPM-0001**

Flexible Supply Piping



See our complete line of DEF Compatible Products on page 131

Product #	Size		Description	Working Pressure		Temperature Rating		Burst Pressure	Max Vacuum for Suction
	in.	cm		PSIG	BAR	F	C		
C075A	3/4	1.9	Double-Wall Primary Pipe	145	10 bar	-20° to +120° F	-29° to +49° C	Exceeds 5X Working Pressure	26" of Mercury for All Pipe
C10A	1	2.54	Double-Wall Primary Pipe	125	8.6 bar				
C15A	1.5	3.8	Double-Wall Primary Pipe	100	6.9 bar				
C20A	2	5	Double-Wall Primary Pipe	75	5 bar				
C30A	3	7.6	Double-Wall Primary Pipe	75	5 bar				

Listings and Certifications

