



NEW PRODUCTS

FD-1A-0110



PVC & CPVC Seamless Round Duct

Spears® Seamless Round Duct provides the high corrosion resistance of thermoplastics in PVC and higher temperature handling CPVC materials for aggressive corrosive fume exhaust and drain applications. Available in Iron Pipe Size (IPS) diameter sizes 6" through 12", in either 10 ft. or 20 ft. lengths.

Full Featured For Institutional and Industrial Applications

- Seamless Round Duct extrusion for maximum integrity and long service life.
- Excellent Chemical Resistance to a wide range of corrosive fumes, gasses and fluids.
- PVC Serviceable to 140°F, CPVC Serviceable to 200°F.
- Large interior diameters for optimum flow characteristics.
- Light weight provides easier handling, installation, and fabrication for lower overall installed cost.

PVC & CPVC Duct Dimensions

Size (in.)	AVG. O.D.	AVG. O.D. TOL.	O of R TOL.	MIN. Wall	AVG. Wall	MAX. Wall	PVC WT(lbs.) Per Ft.	CPVC WT(lbs.) Per Ft.
6	6.625	+/- .020	+/- .050	0.172	0.187	0.202	2.275	2.555
8	8.625	+/- .020	+/- .075	0.172	0.187	0.202	2.982	3.349
10	10.750	+/- .025	+/- .075	0.172	0.187	0.202	3.733	4.192
12	12.750	+/- .025	+/- .075	0.172	0.187	0.202	4.440	4.986

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
10 ft. PVC Duct - Plain End					
Price Per Foot					
PD-430-060-10	6	10	0	948	11.61
PD-430-080-10	8	10	0	948	14.62
PD-430-100-10	10	10	0	948	18.31
PD-430-120-10	12	10	0	948	21.78

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
10 ft. CPVC Duct - Plain End					
Price Per Foot					
PD-430-060C-10	6	10	0	949	23.30
PD-430-080C-10	8	10	0	949	30.56
PD-430-100C-10	10	10	0	949	38.25
PD-430-120C-10	12	10	0	949	45.48

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
20 ft. PVC Duct - Plain End					
Price Per Foot					
PD-430-060	6	20	0	948	11.61
PD-430-080	8	20	0	948	14.62
PD-430-100	10	20	0	948	18.31
PD-430-120	12	20	0	948	21.78

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
20 ft. CPVC Duct - Plain End					
Price Per Foot					
PD-430-060C	6	20	0	949	23.30
PD-430-080C	8	20	0	949	30.56
PD-430-100C	10	20	0	949	38.25
PD-430-120C	12	20	0	949	45.48

- Pipe sold in individual lengths or lift quantities. No cut lengths.
- No return on Duct, no freight allowance on Duct.
- Large orders may be shipped directly from Spears® manufacturing facility. Note: Multiple drops may be made on TL shipments. Contact Spears® Regional Distribution Center for requirements and drop-off charges.
- See Spears® Manufacturing Company Terms and Conditions of Sale for freight requirements.

Negative Pressure Ratings

PVC MAX. Internal Negative Pressure Rating
Inches of Water @ Various Temperature °F

Size (in.)	TEMPERATURE °F							
	73	80	90	100	110	120	130	140
6	415	365	311	257	212	166	129	91
8	188	166	141	117	96	75	58	41
10	97	85	73	60	50	39	30	21
12	58	51	44	36	30	23	18	13

CPVC MAX. Internal Negative Pressure Rating
Inches of Water @ Various Temperature °F

Size (in.)	TEMPERATURE °F						
	73	100	120	140	160	180	200
6	426	371	316	263	208	153	98
8	193	168	143	118	93	70	45
10	100	86	73	60	48	35	23
12	60	51	43	36	28	20	13

Positive Pressure Ratings

PVC MAX. Internal Positive Pressure Rating
PSI @ Various Temperatures °F

Size (in.)	TEMPERATURE °F							
	73	80	90	100	110	120	130	140
6	70	62	52	43	35	28	22	15
8	53	47	40	33	27	21	16	12
10	43	39	32	27	22	17	13	9
12	36	32	27	22	18	14	11	8

CPVC MAX. Internal Positive Pressure Rating
Inches of Water @ Various Temperature °F

Size (in.)	TEMPERATURE °F						
	73	100	120	140	160	180	200
6	70	56	45	35	26	16	13
8	53	43	33	26	20	13	10
10	43	35	28	21	16	10	8
12	36	30	23	18	15	8	6

Hanger & Support Spacing

Support spacing is based on duct diameter, system temperature, location of stress loads, and loads from solids accumulation in the system. Heavy system components and loads must be independently supported. Secure hangers and supports to building structure to prevent vibration and properly aligned to prevent stress on the system. Use hangers with an adequate load-bearing surface free of rough or sharp edges and of a type that will not restrict linear movement of the system due to expansion and contraction. Avoid over tightening.

Duct Size (in.)	PVC Maximum Hanger Support Spacing (ft.)								CPVC Maximum Hanger Support Spacing (ft.)						
	Temperature °F								Temperature °F						
	73	80	90	100	110	120	130	140	73	100	120	140	160	180	200
6	10	10	9.5	9	8.5	8	7.5	6.5	10	10	10	10	10	8	8
8	10	10	10	10	9	9	8	7.5	10	10	10	10	10	8	8
10	10	10	10	10	10	10	9	8.5	10	10	10	10	10	10	10
12	12	12	12	12	10	10	10	9.5	10	10	10	10	10	10	10

Thermal Expansion & Contraction

Thermal expansion and contraction of the system must be properly addressed during system design and installation. In-line expansion joints or use of the system's inherent line flexibility can be used to construct expansion loops and offsets as required. The expansion or contraction rate of Spears® PVC or CPVC Duct can be calculated using the coefficient of linear expansion (y) in the following formula:

$$\Delta L = 12 yL (\Delta T)$$

where: ΔL = expansion or contraction of duct in inches

$$y \text{ for PVC} = 2.9 \times 10^{-5} \text{ in/in/}^\circ\text{F}$$

-OR-

$$y \text{ for CPVC} = 3.2 \times 10^{-5} \text{ in/in/}^\circ\text{F}$$

L = Length of duct run in feet

ΔT = Temperature change °F (T max. - T min.)

T max. = maximum change in operating temperature (°F)

T min. = temperature at time of installation (°F)

NOT FOR USE WITH COMPRESSED AIR OR GAS

Prices subject to change without notice. Possession of this price schedule shall not be construed as an offer to sell the products listed.

Product drawing(s) & photo(s) are representative and may not fully reflect product configuration.

Progressive Products From Spears® Innovation & Technology



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