

# PVC BRAID REINFORCED TYPE RPVC & HDPVC TECHNICAL DATA

## APPLICATIONS:

- Water Supply and Draining
- Transfer of various Fluids and Powder
- Supplying Water, Gas, Oil etc. in Agriculture and Industry
- Other Special Purpose (refer to technical)



## CHARACTERISTICS:

- Excellent Abrasion Resistance
- Flexibility Good
- High Resistance to Alkalis/Acids
- Silicone Free
- Cadmium Free
- Low Toxicity
- Transparency Excellent
- Manufactured to Comply with BS6066 & ISO5774
- The Hose has been Tested and complies with US FDA Standards (Food Grade)
- Durable, Anti-Cold Proof, Non-inflated
- High-Flexibility, Light-Weight and Easy to Handle
- No Fissure Phenomenon by Ultraviolet Rays and Direct Rays of the Sun
- Little Expansion or Contraction
- Temperature Range -20°C to +65°C
- All technical specifications remain the same for colour variants in each of the corresponding sizes

Part No	Nominal Dimension Inch	Size I.D. x O.D. mm	MAX. Working Pressure bar	Burst Pressure bar	Bend Radius mm	Weight KG/Roll
RPVC18	1/8"	3 x 8	13	50	15	1.10
RPVC532	5/32"	4 x 9	13	50	17	1.80
RPVC316	3/16"	5 x 10	13	50	20	2.10
RPVC14	1/4"	6 x 11	15	65	25	2.30
RPVC516	5/16"	8 x 13	15	58	33	2.70
RPVC38	3/8"	10 x 15	12	45	40	3.20
RPVC12	1/2"	13 x 18	12	40	52	4.00
RPVC58	5/8"	16 x 21	10	35	64	5.00
RPVC34	3/4"	19 x 25	10	32	76	7.10
RPVC1	1"	25 x 31	9	28	100	8.90
RPVC114	1.1/4"	32 x 40	6	26	125	16.00
RPVC112	1.1/2"	38 x 46	5	20	152	19.00
RPVC2	2"	50 x 60	3	17	200	31.00
HDPVC14	1/4"	6.5 x 11.5	16	65	30	2.50
HDPVC516	5/16"	8 x 13.5	16	58	35	3.30
HDPVC38	3/8"	10 x 16	15	45	45	3.50
HDPVC12	1/2"	12.5 x 18.5	12	40	52	5.00
HDPVC58	5/8"	16 x 23	10	35	74	7.80
HDPVC34	3/4"	20 x 26	10	32	80	7.30
HDPVC1	1"	25 x 33	10	28	110	12.80
HDPVC114	1.1/4"	32 x 41	6	26	130	18.90
HDPVC112	1.1/2"	40 x 49	6	20	165	23.00
HDPVC2	2"	50 x 62	3	17	220	38.00

Given working pressure are based on an ambient temperature of 20°C. Due to the natural properties of PVC as the ambient temperature increases the pressures the hose will withstand decreases at a average rate of 15% per increase of 10°C and in similar increments thereafter.

# CHEMICAL RESISTANCE CHART

N	PUR	PE	PVC		N	PUR	PE	PVC		N	PUR	PE	PVC	
-	4	1	4	Acetic Acid, Glacial	-	4	1	4	Ethylene Chloride	3	2	-	4	Picric Acid
-	4	1	4	Acetic acid, 30%	-	4	1	4	Ethylene Glycol	-	4	-	-	Potassium Acetate (aq)
-	4	2	4	Acetone	-	4	2	4	Ethylene Oxide	-	1	1	1	Potassium Chloride (aq)
-	4	1	1	Acetylene	-	4	1	1	Ethylene Trichloride	-	1	1	1	Potassium Cyanide (aq)
-	4	-	-	Akazene	-	4	-	-	Ferric Chloride (aq)	3	4	1	1	Potassium Hydroxide (aq)
-	3	2	1	Aluminum Chloride (aq)	-	3	2	1	Ferric Nitrate (aq)	-	1	1	1	Producer Gas
-	3	-	-	Aluminum Nitrate (aq)	-	3	-	-	Ferric Sulfate (aq)	1	3	3	1	Propane
-	4	2	1	Ammonia Anhydrous	-	4	2	1	Fluorine (Liqued)	-	4	-	-	Propyl Alcohol
-	3	-	-	Ammonia Gas (cold)	-	3	-	-	Formaldehyde (RT)	-	4	-	-	Propylene
-	4	-	-	Ammonia Gas (hot)	-	4	-	-	Formic Acid	-	4	-	-	Propylene Oxide
-	1	1	1	Ammonium Chloride (aq)	-	1	1	1	Freon 11	-	4	-	-	Pydraul, 10E, 29 ELT
-	1	1	1	Ammonium Sulfate (aq)	-	1	1	1	Freon 12	-	4	-	-	Pydraul 30E, 50E, 65E
-	4	2	1	Amyl Alcohol	-	4	2	1	Freon 22	-	4	-	-	Pydraul, 115E
-	4	-	-	Amyl Naphthalene	-	4	-	-	Fuel Oil	-	4	-	-	Pydraul 230E, 312C, 540C
-	1	-	-	Animal Fats	-	1	-	-	Futural Glucose	-	2	-	-	Rapeseed Oil
-	4	2	3	Aqua Regia	-	4	2	3	Glue	-	1	-	-	Red Oil (MIL-H-5606)
-	3	2	1	Arsenic Acid	-	3	2	1	Glycerin	-	1	-	-	RJ-1 (MIL-F-2338 B)
-	2	1	1	Asphalt	-	2	1	1	Glycols	-	1	-	-	RP-1 (MIL-F-25576 C)
-	2	-	-	ASTM Fuel A	-	2	-	-	Green Sulfate Liquor	-	1	-	-	
-	3	-	-	ASTM Fuel B	-	3	-	-	Hexane	1	2	1	1	Salt Water
-	3	1	1	ASTM Fuel C	-	3	1	1	Hydraulic Oil	-	4	-	-	Sewage
-	1	1	1	Barium Chloride (aq)	-	1	1	1	Hydrochloric Acid (cold) 37%	-	1	-	-	Silicate Esters
1	2	1	1	Beer	1	2	1	1	Hydrochloric Acid (hot) 37%	-	1	1	1	Silicone Oils
-	4	1	1	Beet Sugar Liquors	-	4	1	1	Hydrofluoric Acid (Conc.) Cold	-	1	2	1	Silver Nitrate
1	3	3	3	Benzene	1	3	3	3	Hydrofluoric Acid (Conc.) Hot	-	4	-	-	Skydrol 500
-	2	-	-	Benzine	-	2	-	-	Hydrogen Gas	-	4	-	-	Skydrol 700
-	4	-	-	Blast Furnace Gas	-	4	-	-	Isobutyl Alcohol	1	3	3	1	Soap Solutions
-	4	-	1	Bleac Solutions	-	4	-	1	Isocotane	1	1	1	1	Sodium Chloride (aq)
-	1	1	2	Borax	-	1	1	2	Isopropyl Acetate	2	4	2	1	Sodium Hydroxide (aq)
-	1	1	1	Boric Acid	-	1	1	1	Isopropyl Alcohl	-	4	1	2	Sodium Peroxide (aq)
-	4	-	-	Brake Fluid	-	4	-	-	Isopropyl Ether	-	1	1	1	Sodium Phosphate (aq)
4	4	4	3	Brine	4	4	4	3	Kerosene	-	2	1	1	Sodium Sulfate (aq)
-	2	-	-	Bromine Water	4	4	-	-	Lacquers	-	4	-	-	Soy Bean Oil
-	1	3	3	Bunker Oil	1	2	-	-	Lacquer Solvents	4	4	-	-	Steam Under 300°F
-	1	-	-	Butane	1	1	3	3	Lard	4	4	-	-	Steam Over 300°F
-	1	-	-	Butter	-	1	-	-	Lavender Oil	-	1	3	3	Stoddard Solvent
3	4	1	2	Butyl Alcohol	3	4	1	2	Lead Acetate (aq)	-	3	-	4	Styrene
-	4	1	1	Butylene	-	4	1	1	Linseed Oil	-	4	-	-	Sucrose Solution
1	1	2	1	Calcium Chloride (aq)	1	1	2	1	Liquified Petrolateum Gos	-	3	1	1	Sulfuric Acid (Dilute)
-	1	2	1	Calcium Hydroxide (aq)	-	1	2	1	Lubricating Oils	-	4	3	4	Sulfuric Acid (Conc.)
1	1	-	-	Calcium Nitrate (aq)	1	1	-	-	Lye	-	4	-	-	Sulfuric Acid (20% Oleum)
-	1	-	-	Calcium Sulfide (aq)	-	1	-	-	Magnesium Chloride (aq)	-	3	2	1	Sulfurous Acid
-	4	-	1	Cane Sugar Liquors	-	4	-	1	Magnesium Hydroxide (aq)	-	1	2	1	Tannic Acid
-	3	2	3	Carbolic Acid	-	3	2	3	Mercury	-	4	2	4	Tetrochloroethylene
-	1	3	1	Carbon Dioxide	-	1	3	1	Methane	1	4	3	4	Toluene
-	1	2	1	Carbonic Acid	-	1	2	1	Methyl Acetate	-	1	-	-	Transformer Oil
-	1	2	1	Carbon Monoxide	-	1	2	1	Methyl Acrylate	-	1	-	-	Transmission Fluid Type A
3	4	2	2	Carbon Tetrachloride	3	4	2	2	Methyl Alcohol	3	4	-	3	Trichloroethane
-	1	-	1	Castor Oil	-	1	-	1	Methyl Butyl Ketone	3	4	3	4	Trichloroethylene
4	4	2	1	Chlorine (dry)	4	4	2	1	Methyl Chloride	-	1	3	-	Turbine Oil
4	4	-	1	Chlorine (wet)	4	4	-	1	Methylene Chloride	1	4	3	2	Turpentine
3	4	3	4	Chloroform	3	4	3	4	Methyl Ethyl Ketone	-	3	3	4	Vamish
-	4	-	-	Chlorox	-	4	-	-	Methyl Isobutl Ktone	1	4	2	1	Vinagar
4	4	1	1	Chromic Acid	4	4	1	1	Milk	-	4	-	-	Vinyl Chloride
1	1	1	2	Citric Acid	1	1	1	2	Mineral Oil	1	1	1	1	Water
-	3	-	-	Coal Tar	-	3	-	-	Naphtha	1	2	3	1	Whiskey
-	2	-	1	Coconut Oil	-	2	-	1	Naphtalene	-	1	-	-	White Oil
-	1	-	1	Cod Liver Oil	-	1	-	1	Natural Gas	-	3	-	-	Wood Oil
-	4	-	-	Coke Oven Gas	-	4	-	-	Neatsfoot Oil	2	4	3	4	Xylene
-	1	2	1	Copper Chloride (aq)	-	1	2	1	Nitric Acid (Conc.)	-	4	1	-	Zinc Acetate (aq)
-	1	2	1	Copper Chloride (aq)	-	1	2	1	Nitric Acid (Dilute)	1	1	-	1	Zinc Chloride (aq)
-	1	3	2	Com Oil	-	1	3	2	Nitroethane	-	1	-	-	
-	1	2	2	Cotton Seed Oil	-	1	2	2	Nitrogen	-	1	-	-	
4	4	3	4	Creosot	4	4	3	4	N-Octane	4	4	-	-	
1	1	2	4	Cyclohexane	1	1	2	4	Oleic Acid	1	1	2	4	
-	4	-	-	Denatured Aicohol	-	4	-	-	Oleum Spirits	-	4	-	-	
-	4	1	1	Detergent Solution	-	4	1	1	Olive Oil	-	4	-	-	
-	3	3	1	Diesel Oil	-	3	3	1	Oxygen-Cold	-	3	-	-	
-	4	-	-	Dioxane	-	4	-	-	Oxygen (200-400°F)	-	4	-	-	
-	3	-	-	Dowtherm Oil	-	3	-	-	Paint Thnner, Duco	-	3	-	-	
-	4	-	-	Dry Cteaning Fluids	-	4	-	-	Perchloric Acid	-	4	-	-	
-	3	-	4	Ethane	-	3	-	4	Perchloroethylene	-	3	-	-	
-	4	-	-	Ethyl Acrylate	-	4	-	-	Petrolenn-Below 250°F	-	4	-	-	
-	4	-	-	Ethyl Alcohol	3	4	-	-	Petroleum-Above 250 F	-	4	-	-	
-	4	-	-	Ethyl Benzene	-	4	-	-	Phenol	-	4	-	-	
-	2	-	-	Ethyl Cellulose	-	2	-	-	Phenyl Ethyl Ether	-	2	-	-	
-	2	-	-	Ethyl Chlonde	-	2	-	-	Phosphoric Acid-45%	-	2	-	-	
-	3	-	-	Ethyl Ether	-	3	-	-	Pickling Solution	-	3	-	-	

## NYLON 6, 12 & POLYURETHANE ETHER BASE/PE POLYETHYLENE/PVC POLYVINYL CHLORIDE

Please Note: The above ratings are very general guidelines and designed only to be used as an initial screening tool.

Careful testing under actual conditions essential. Accuracy for these ratings is not given or implied.

Ratings: 1. Little or no impact/  
2. Minor effect/ 3. Moderate effect/  
4. Severe effect.