

Corroflon PB Series Hose Specifications

Convuluted Reinforced PTFE Lined Hose



Polypropylene Braided Convuluted PTFE Lined Hose

Polypropylene Braided

Polypropylene braided hose is often preferred to SS Braid in applications involving frequent handling and movement of the hose, and where temperatures are within the range -30°C to +100°C. PB braid is lighter in weight, and any broken strands will not cut the operator's hands. In addition, PB braid is not prone to chloride stress corrosion.

Corroflon GP/AS/SP PTFE Tube Liners

Corroflon GP liner is manufactured from hose quality grade PTFE conforming to FDA requirements 21 CFR 177.1550 and USP Class VI, extruded into tube and helically convoluted. It also includes a heavy gauge Grade 304 stainless steel reinforcing wire helically wound into the external root of the convolutions to strengthen the convoluted shape.



GP Liner AS Liner SP Liner

Corroflon AS grade has an anti-static PTFE liner manufactured from FDA approved PTFE, and less than 2.5% of "high purity" Carbon Black material to FDA requirement 21 CFR 178.3297. The carbon is encapsulated by the PTFE, and in normal, nonabrasive applications will not come loose to contaminate any fluid passing through.

Corroflon SP is a special purpose liner where the convolutions are closer together, yielding greater radial strength to the hose design.

Temperature Rating

Maximum Operating Temperatures (internal fluid):

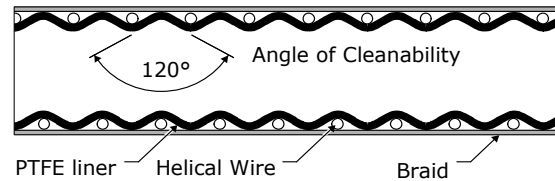
- SS Braid** -70°C to +230°C
- PB Braid** -30°C to +100°C
- SSRC and SSFP** -40°C to +140°C
- RCSI** -40°C to +180°C
- KYB** -40°C to +120°C

(For external temperature limits, reduce maximum temperatures by 20°C).

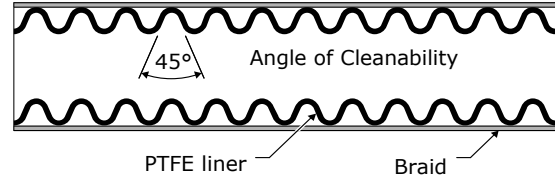
Cleanability

Corroflon offers better cleanability and drainability than any other convoluted PTFE hose on the market due to extremely shallow convolutions - 80° to 120°, compared with only 45° to 65° in other convoluted hose designs:

Corroflon GP Lined PTFE Hose



Typical Convuluted PTFE Hose



Fittings

Corroflon is available with a range of 'standard' end fittings, normally supplied hygienically PTFE lined, or "Flared Through".

Corroflon Polypropylene Braid (PB) Hose Specifications

Corroflon Braid Type	Nominal Hose Bore Size		Bore Inside Convolutions		Max Working Pressure		Burst Pressure		Liner Wall Thickness		O/D of Braid		Min Bend Radius		Continuous Max Length		Weight per Unit Length	
	in	mm	in	mm	Bar (N/m ²)	psi	Bar (N/m ²)	psi	in	mm	in	mm	in	mm	ft	m	kg/m	lb/ft
PB	1/2	15	0.440	11.2	31	450	150	2175	0.05	1.4	0.75	19.1	1 1/2	38	92	28	0.26	0.17
PB	3/4	20	0.620	15.7	26	375	105	1520	0.05	1.4	1.02	26.0	2	51	100	30	0.36	0.24
PB	1	25	0.847	21.5	23	334	93	1350	0.06	1.5	1.34	34.0	2 3/4	70	130	40	0.56	0.38
PB	1 1/4	32	1.080	27.5	20	290	81	1175	0.06	1.5	1.72	43.6	3 1/4	82	100	30	0.66	0.44
PB	1 1/2	40	1.250	32.0	17	245	69	1000	0.06	1.5	1.91	48.6	4	100	82	25	1.20	0.80
PB	2	50	1.690	43.0	15	215	60	870	0.07	1.8	2.44	62.0	5 1/2	140	60	18	1.68	1.13
PB	2 1/2	65	2.120	54.0	12	175	48	695	0.07	1.8	3.03	77.0	7	178	43	13	2.06	1.38
PB	3	80	2.500	64.0	10	145	42	610	0.07	1.8	3.55	90.0	9	230	33	10	2.63	1.76
PB	4	100	3.860	98.0	8	115	30	435	0.08	2.0	4.73	120.0	11 3/4	300	16	5	3.98	2.67



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