

Corroflon KYB Series Hose Specifications

Convoluted Reinforced PTFE Lined Hose



Kynar® Braided* Convoluted PTFE Lined Hose

*Polyvinylidene Fluoride Monofilament

Kynar® Braided

Kynar Braid is used for the same reasons as Hastelloy Braid, but only in applications where the reduced pressure and temperature ratings of Kynar® are acceptable.

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. The braid is high tensile grade 304 stainless steel wire braid to give maximum protection to the hose against internal pressure and external abrasion.



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):

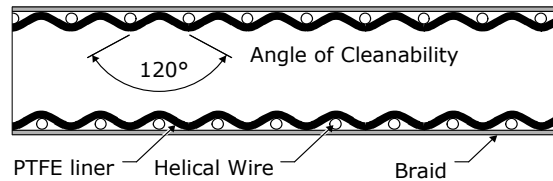
- SS Braid** -70°C to +230°C
- PB Braid** -30°C to +100°C
- SSRC and SSFP** -40°C to +140°C
- RCSI** -40°C to +180°C
- KYB** -40°C to +120°C

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

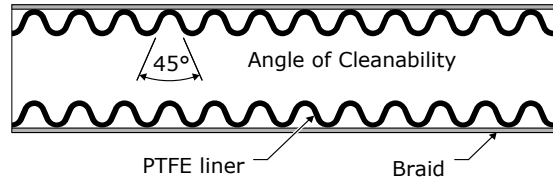
Cleanability

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 Convoluted PTFE Hose



Fittings

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

Corroflon Kynar® Braid (KYB) 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
KYB	1/2	15	0.440	11.2	15	215	61.5	890	0.05	1.4	0.75	19.1	1 1/2	38	92	28	0.23	0.15
KYB	3/4	20	0.620	15.7	13	190	52.5	760	0.05	1.4	1.02	26.0	2	51	100	30	0.31	0.21
KYB	1	25	0.847	21.5	11	160	46.5	675	0.06	1.5	1.34	34.0	2 3/4	70	130	40	0.49	0.33
KYB	1 1/4	32	1.080	27.5	10	145	40.5	585	0.06	1.5	1.72	43.6	3 1/4	82	100	30	0.57	0.38
KYB	1 1/2	40	1.250	32.0	9	130	34.5	500	0.06	1.5	1.91	48.6	4	100	82	25	1.05	0.70
KYB	2	50	1.690	43.0	8	115	30	435	0.07	1.8	2.44	62.0	5 1/2	140	60	18	1.47	0.99
KYB	2 1/2	65	2.120	54.0	6	87	24	350	0.07	1.8	3.03	77.0	7	178	43	13	1.81	1.21
KYB	3	80	2.500	64.0	5	73	21	305	0.07	1.8	3.55	90.0	9	230	33	10	2.30	1.54

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321 Irving Drive
Oxnard, CA 93030
(800) 726-4835
www.sani-techwest.com