

# Corroflon HB Series Hose Specifications

## Convuluted Reinforced PTFE Lined Hose



## Hastelloy Braided (C276 grade) Convuluted PTFE Lined Hose

### Hastelloy Braid

Hastelloy Wire Braid is used instead of SS where severe chemical corrosion conditions exist around the outside of the hose. One way in which this can happen is when Chlorine or Fluorine are being transferred. Diffusion of trace quantities of such gases through the PTFE liner can lead to atmospherically wetted fluorine or chlorine attacking the braid material, in which case the Hastelloy Braid would be resistant.

### 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/HB Braid** -70°C to +230°C

**PB Braid** -30°C to +100°C

**SSRC** -40°C to +140°C

**RCSI** -40°C to +180°C

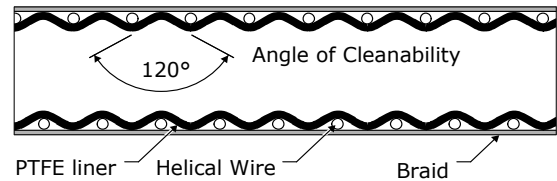
**KYB** -40°C to +120°C

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

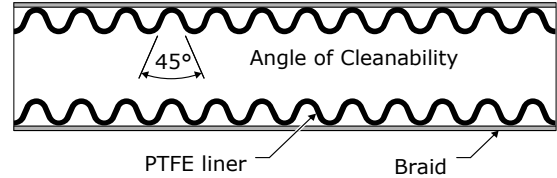
### Cleanability

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 Hastelloy Braid (HB) 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 <sup>2</sup> )	psi	Bar (N/m <sup>2</sup> )	psi	in	mm	in	mm	in	mm	ft	m	kg/m	lb/ft
SS/HB	1/2	15	0.440	11.2	41	595	450	6525	0.05	1.4	0.69	17.5	1 1/2	38	92	28	0.33	0.22
SS/HB	3/4	20	0.620	15.7	35	505	240	3480	0.05	1.4	0.91	23.1	2	51	100	30	0.45	0.30
SS/HB	1	25	0.847	21.5	31	450	200	2900	0.06	1.5	1.25	31.7	2 3/4	70	130	40	0.70	0.47
SS/HB	1 1/4	32	1.080	27.5	27	390	180	2610	0.06	1.5	1.50	38.4	3 1/4	82	100	30	0.82	0.55
SS/HB	1 1/2	40	1.250	32.0	23	335	120	1740	0.06	1.5	1.76	44.6	4	100	82	25	1.50	1.01
SS/HB	2	50	1.690	43.0	20	290	100	1450	0.07	1.8	2.32	59.0	5 1/2	140	60	18	2.10	1.41
SS/HB	2 1/2	65	2.120	54.0	16	230	70	1015	0.07	1.8	2.88	73.0	7	178	43	13	2.58	1.73
SS/HB	3	80	2.500	64.0	14	205	60	870	0.07	1.8	3.39	86.0	9	230	33	10	3.29	2.20
SS/HB	4	100	3.860	98.0	10	145	40	580	0.08	2.0	4.61	117.0	11 3/4	300	16	5	5.05	3.38
SS/HB	6	150	5.250	130.0	5	73	20	290	0.10	2.5	6.70	170.0	23 3/4	600	13	4	10.00	6.70

\*Consult factory for availability and specification changes



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