Stainless Steel Hose

VITALFLEX® - Oxygen Lance hose

Omega Part No.: SS0-O Tube Only / SS1-O Tube and Single Braid / SS2-O Tube and Double Braid
Braided Braid Part No.: SS0-B Tube Only / SS1-B Tube and Single Braid / SS2-B Tube and Double Braid
Construction: Omega / Close Pitch
Tube Available: 304 / 316 Stainless Steel
Braid Available: 304 / 316 Stainless Steel
Size Available: 5" - 20"
(Larger sizes upon Request)
Max Temp: -276°C to 700°C

	Low	Med	High
Flexibility		●	
Cycle Life			●
Pressure Rating		●	
Chemical Resistance			●
Wall Thickness			●

Construction

Applicable Standards:
Corrugated Metal Hoses: ISO 10380
AGA Approved: AS 4631 (upon request)
Watermark Approved: WMTS 520 (upon request)
Welding Compliant: AS 4041- Class 1 (upon request)
Seismic Rated: AS 1170 (upon request)
Activfire Certified: AS 2118.1 (upon request)

Temperature Correction Factor																			
-200	-150	-100	-50	0	20	50	100	150	200	250	300	350	400	450	500	550	600	650	700
1.0	1.0	1.0	1.0	1.0	1.0	0.93	0.83	0.72	0.66	0.62	0.59	0.56	0.55	0.53	0.51	0.50	0.50	0.19	0.1

Omega

Nominal Dia.		Outside Dia. (mm)			Weight (Kg/m)			Min. Bend Radius (mm)		Working Pressure (kPa)			Burst Pressure (kPa)		
mm	inch	SSO	SS1	SS2	SS0	SS1	SS2	Static	Dynamic	SS0	SS1	SS2	SS0	SS1	SS2
125	5"	151	155	159	2.8	5	7.2	500	1200	200	1610	2455	800	6440	9820
150	6"	176	184	188	3.8	6.6	9.4	600	1500	200	1610	2455	800	6440	9820
200	8"	238	245	250	6.7	12	17.3	800	2000	200	1250	1975	800	5000	7900
250	10"	292	303	308	10.6	17	25	1000	2200	200	1022	1597	800	4088	6388
300	12"	345	365	370	17.1	20	26.5	1200	2500	200	815	1280	800	3260	5120
350	14"	400	415	420	20	24	29	1400	3000	200	805	1207	800	3220	4828
400	16"	460	465	470	22.8	28	33	1600	3500	200	600	1000	800	2400	4000
450	18"	500	502	504	40	50	60	2250	4500	100	500	800	400	2000	3200
500	20"	575	577	579	46	58	70	2500	5000	100	500	800	400	2000	3200
Higher pressure hoses can be designed on request															

All parts come in contact with Oxygen of stainless steel are remain oil and grease free.
An additional mechanical protection can be achieved by use of an outer interlock profile hose. Inner liner (interlock hose) is predominantly used for the oxygen supply to improve the flow condition and reducer the pressure loss.

Application:
In steel production, the pig iron produced in a blast furnace, and oxygen is lanced onto this molten iron at regular intervals. This encourage combustion of excess carbon and part of unwanted companion elements.

The movements of lance hose over several meters in a vertical as well as a horizontal direction is made possible by flexible lance hose which are installed in 180 degree bend position (also know as a travelling loop).