HYDROFLESS®

METAL HOSE

CONVOLUTED METAL HOSES OF STAINLESS STEEL





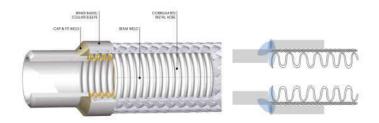
PRODUCT RANGE

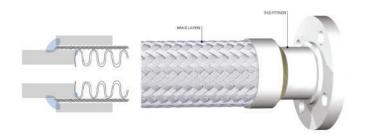
Our complete range of corrugated, metal braided hose includes a wide range of versatile products that can be used with chemicals, gases, and foodstuff. Furthermore, our products perform under extreme temperatures and offer features such as non-stick, anti-kink and anti-aging.

Our experienced team of engineers and master fabricators, will benefit clients from the highest standards of customer care at every level of their project. We work with customers to provide a bespoke product that meets the exact requirements demanded.

Upon customers request our company can offer products in a range of **Monel**®, **Inconel**®**625**, and **Hastelloy**®**C276**. Contact us to find out more about our bespoke solutions.

PRODUCTS





METALLIC CORRUGATED / BRAIDED HOSE

HYDROFLEX® metal corrugated braided hose is suitable for a wide range of applications where rubber hoses are not functional. In applications with high corrosive fluids and extreme temperatures, flexible metal hoses prove durable and versatile.

The most common material available are **SS316L** grade which is the ideal material in coastal and marine application by providing a better corrosion performance due to the added molybdenum in the steel. Monel® 400 provides even a better corrosion resistance for seawater and chlorine transfer applications. For applications where continuous temperature greater than 550°C are required Inconel®625 and Hastelloy®C276 are particularly suitable.

Our hoses are produced according to **ISO 10380** and are able to withstand temperatures ranging between -250°C to 550°C, without any effect on pressure performance.

Due to the corrugated design of HYDROFLEX® metal hoses, provide enhanced anti-collapse properties that makes them ideal for submerged applications with vacuum pressure. Depending on the design and size the working pressure could range from vacuum to 800 bar.

Features

The key benefits of choosing Amnitec corrugated/braided metallic hose:



Operating



Cryogenic Applications



Temperature



Suitable for Gases



Long Lifespan



Meets Standar



Aggressive /
Corrosive Fluids



Suitable for liquid



STAINLESS STEEL EXPANSION JOINTS / BELLOWS

HYDROFLEX® metal stainless steel expansion joints are used in a wide range of applications. Metallic Bellows are relatively light compared to the rubber bellow alternatives available in the market. They are construction without braiding and can withstand high pressures and temperatures as well as absorb movements in axial, lateral and angular directions.

Stainless Steel material bellows can withstand variations in temperatures from very low to as high as 600°C. Stainless steel have exceptional chemical resistance and physical strength.

HYDROFLEX® metal bellows and expansion joints are generally available in sizes of 1.1/2"(40mm) to 20"(500mm).

HYDROFLEX® Stainless Steel Bellows can be used in static and flexible applications and installed for use in places with constant vibration and flexing.

HYDROFLEX®







EXHAUST GASES

In flue or exhaust systems in ships applications that require higher temperature, minimal vibrations and low pressures, **HYDROFLEX**® metal bellows offers two options - Weld Ends or Flanged Ends.



HVAC

There is a vast range of Bellow and Expansion joints used in the HVAC industry. We keep several of the most common types in stock for same day delivery. Some of the common types are welding ends, female thread, press fittings or flanged or grooved ends.









STAINLESS STEEL PUMP CONNECTORS

Stainless Steel Pump connectors are most commonly used in thermal oil pipe systems to absorb vibrations.

We offer them in welding ends and fixed flanged ends.

INDUSTRIES

The industries we supply include marine, refrigeration, petrochemical, cryogenic, power generation and industrial.

PETROCHEMICAL

Designed to work in conditions of high chemical resistance, our metal hose assemblies are tested for this demanding sector. Our experience in working within the Petrochemical industry, and high-performance flexible metal hose assemblies will ensure we are the supplier of choice.

MARINE

The product applications within the marine sector varies and are often extreme conditions. Our products can withstand high temperature applications, suitable for use in corrosive media, and offer anti-collapse strength.

REFRIGARATION

In both domestic and industrial sectors, we provide cost effective and reliable solution. Our products can withstand and provide exceptional performance in very low temperature conditions.

CRYOGENIC

Our products are designed to withstand conditions of cryogenic industry. Our Metal hose assemblies are ideal for conveying liquid nitrogen, liquid helium, liquid hydrogen and other cryogenic fluids.

POWER GENERATION

Our Stainless Steel Hose assemblies are not only designed for fluid transfer but also to be durable and flexible to withstand extreme conditions in the Power Generation sector.

INDUSTRIAL

Every demanding application required robust and long-lasting products. With our Flexible Hose assemblies capable of fatigue lifespan of over 35,000, our SS Metalic hose will exceed the demands of the industrial applications.





SERIES A 100

ISO 10380 QUALIFIED

Mechanical Formed Hoses

Series A100 - Annular, Stainless Steel & Standard Pitch Hose

Nominal	Hydroflex		Nominal	Nominal	Minimum	Centerline	Pressure	Rating at ^o 2	23C (kg/cm²)	Weight	Typical
Hose	Part	Braid	Outside	Inside	Bend Rad	dius (mm)	Max	Max	Nominal	(kg/mtr.)	Length
Size (in.)	Number	Layers	Diameter	Diameter	Static	Dynamic	Working	Test	Burst	(kg/mtr.)	mtrs
	A10016006	0	9.6				12	18	140	0.076	
1/4"	A100161401006	1	10.8	6.2	25	85	120	180	480	0.150	50
	A100162401006	2	12.0				192	288	768	0.240	
	A10016008	0	12.1				10	15	120	0.087	
5/16"	A100161401008	1	13.3	8.2	32	125	100	150	400	0.167	50
	A100162401008	2	14.5				160	240	640	0.260	
	A10016010	0	14.3				9	14	100	0.112	
3/8"	A100161401010	1	15.5	10.3	38	140	90	135	360	0.215	50
	A100162401010	2	16.7				144	216	576	0.333	
	A10016012	0	16.7				9	14	90	0.118	
1/2"	A100161401012	1	17.9	12.2	45	140	80	128	320	0.240	50
	A100162401012	2	19.1				128	192	512	0.379	
	A10016016	0	21.6				8	12	85	0.195	
5/8"	A100161401016	1	23.0	16.2	58	160	70	105	280	0.400	50
	A100162401016	2	24.4				112	168	448	0.630	
	A10016020	0	26.8				4	6	65	0.250	
3/4"	A100161401020	1	28.3	20.2	70	170	64	96	256	0.495	50
	A100162401020	2	29.8				102	154	410	0.765	
	A10016025	0	32.2				3	5	55	0.355	
1"	A100161401025	1	33.7	25.4	85	190	50	75	200	0.630	50
	A100162401025	2	35.2				80	120	320	0.930	
	A10016032	0	41.1				2	3	50	0.445	
1 1/4"	A100161401032	1	42.7	34.3	105	260	40	60	160	0.847	50
	A100162401032	2	44.3				64	96	256	1.281	
	A10016040	0	49.5				1	2	45	0.682	
1 1/2"	A100161401040	1	51.1	40.1	130	300	35	53	140	1.172	50
	A100162401040	2	52.7				56	84	224	1.694	
	A10016050	0	60.3				1	2	45	0.880	
2"	A100161401050	1	62.3	50.3	160	320	30	45	120	1.606	50
	A100162401050	2	64.3				48	72	192	2.383	

Hose-On-Reel

The working Pressure with Single / Double wire Braid is based on Braiding specification of Series 1101 $\,$

Advantages of reeling

- *Braided Hose-On-Reel is segmented into a continuous length to reduce scrap
- * Convenient handling, storage and Inventory Control
- * Reduces shelf space

Series A 100 Braided Annular Hose-on-Reel & Single Braid					
Nominal Hose	Reel Qty	Reel dia	Reel width		
Size (In)	mtrs	mm	mm		
1/4"	500	600	500		
5/16"	500	600	500		
3/8"	500	700	700		
1/2"	500	700	700		
5/8"	350	700	700		
3/4"	450	1050	700		
1"	400	1050	700		
1 1/4"	200	1050	700		
1 1/2"	150	1050	700		
2"	100	1050	700		

ISO 9001:2008





Series A 200 ISO 10380 QUALIFIED Hydro Formed Hoses

Series A200 - Annular, Stainless Steel & Standard Pitch Hose

Nominal	Hydroflex		Nominal	Nominal	Minimum	Centerline	Pressure Ra	ating at 23	°C (kg/cm²)	Weight	Typical
Hose	Part	Braid	Outside	Inside	Bend Rad	dius (mm)	Max	Max	Nominal	(kg/mtr.)	Length
Size (in.)	Number	Layers	Diameter	Diameter	Static	Dynamic	Working	Test	Burst	(186/11101.)	mtrs
	A20016020	0	27.0				3	4.5	68	0.245	
3/4"	A200161401020	1	28.5	20.5	70	170	64	96	256	0.475	50
	A200162401020	2	30.0				102	154	410	0.730	
	A20016025	0	34.0				3	4.5	60	0.340	
1"	A200161401025	1	35.5	25.6	85	190	50	75	200	0.614	50
	A200162401025	1	37.0				80	120	320	0.915	
	A20016032	0	41.0				2	3	55	0.390	
1 1/4"	A200161401032	1	42.5	32.6	105	260	40	60	160	0.802	50
	A200162401032	2	44.0				64	96	256	1.243	
	A20016040	0	51.0				2	3	50	0.470	
1 1/2"	A200161401040	1	52.5	40.6	130	300	35	52.5	140	1.015	50
	A200162401040	2	54.0				56	84	224	1.590	
	A20016050	0	65.0				1	1.5	45	0.680	
2"	A200161401050	1	67.0	50.7	160	320	30	45	120	1.444	50
	A200162401050	2	69.0				48	72	192	2.256	
	A20016065	0	81.0				1	1.5	40	1.064	
2 1/2"	A200161401065	1	83.0	65.6	180	410	24	36	96	1.984	25
	A200162401065	2	85.0				38	58	154	2.95	
	A20016080	0	95.0				0.6	0.9	35	1.098	
3"	A200161401080	1	97.0	80.3	200	450	18	27	72	2.154	25
	A200162401080	2	99.0				29	43	115	3.260	
	A20016100	0	117.0				0.5	0.75	28	1.401	
4"	A200161401100	1	119.0	100.8	290	560	16	24	64	3.001	25
	A200162401100	2	121.5				26	38	102	4.665	
	A20016125	0	150.0				0.5	0.8	25	2.667	
5"	A200161401125	1	152.5	125.4	325	710	14	21.0	56	4.887	10
	A200162401125	2	155.0				22	34	90	7.196	
	A20016150	0	175.0				0.3	0.45	22	3.220	
6"	A200161401150	1	177.5	150.8	380	815	10	15	40	5.705	10
	A200162401150	2	180.0				16	24	64	8.289	
	A20016200	0	225.0				0.3	0.5	18	4.850	
8"	A200161401200	1	228.0	197.0	500	1015	8	12.0	32	9.150	10
	A200162401200	2	231.0				13	19	51	13.62	
	A20016250	0	278.0				0.2	0.3	18	7.150	
10"	A200161401250	1	281.5	250.4	620	1270	7.5	11	30	13.75	10
	A200162401250	2	285.0				12	18	48	20.550	
	A20016300	0	336.0				0.2	0.3	16	10.800	
12"	A200161401300	1	339.5	300.2	725	1525	6	9	24	18.200	10

Hose-On-Reel

The working Pressure with Single / Double wire Braid is based on Braiding specification of Series 1101

Advantages of reeling

- *Braided Hose-On-Reel is segmented into a continuous length to reduce scrap
- * Convenient handling, storage and Inventory Control
- * Reduces shelf space

Series A 200 Braided Annular Hose-on-Reel & Single Braid					
Nominal Hose	Reel Qty	Reel dia	Reel width		
Size (In)	mtrs	mm	mm		
3/4"	450	1050	700		
1"	400	1050	700		
1 1/4"	200	1050	700		
1 1/2"	150	1050 700			
2"	75	1050	700		
2 1/2"	90	1200	900		
3"	75	1200	900		
4"	25	Coil form			
5"	10	Straight length			
6"	10	Straight length			
8"	10	Straight length			
10"	10	Straight length			
12"	10	Straight	length		

ISO 9001:2008



Series A 700 ISO 10380 QUALIFIED Hydro formed Hoses- Heavy Duty

Series A700 - Annular & Stainless Steel Hose

Nominal			Nominal	Nominal	Minimum	Centerline	Pressure R	ating at 23	°C (kg/cm²)	Weight	Typical
Hose	Part	Braid	Outside	Inside	Bend Ra	dius (mm)	Max	Max	Nominal		Length
Size (in.)	Number	Layers	Diameter	Diameter	Static	Dynamic	Working	Test	Burst	(kg/mtr.)	mtrs
	A70021020	0	28.0				4	6	-	0.320	
3/4"	A700211404020	1	29.5	20.2	58	203	65	97.5	260	0.605	50
	A700212404020	2	31.0				104	156	416	0.920	
	A70021025	0	38.0				3	4.5	-	0.712	
1"	A700211404025	1	39.5	25.4	70	230	50	75	200	1.062	50
	A700212404025	2	41.5				80	120	320	1.442	
	A70021032	0	46.5				2	3	-	1.043	
1 1/4"	A700211404032	1	48.5	32.5	90	267	45	67.5	180	1.508	50
	A700212404032	2	50.0				72	108	288	2.013	
	A70021040	0	55.5				2	3	-	1.120	
1 1/2"	A700211404040	1	58.0	40.5	102	305	38	57	152	1.720	50
	A700212404040	2	59.5				61	91	243	2.370	
	A70021050	0	66.0				1	1.5	-	1.350	
2"	A700211404050	1	68.0	50.5	127	381	38	57	152	2.320	50
	A700212404050	2	70.5				61	91	243	3.400	
	A70021065	0	82.0				1	1.5	-	1.600	
2 1/2"	A700211404065	1	84.0	65.5	203	508	28	42	112	2.700	25
	A700212404065	2	86.5				45	67	179	3.880	
	A70021080	0	96.0				0.6	0.9	-	1.715	
3"	A700211404080	1	98.5	80.1	230	560	23	34.5	92	3.025	25
	A700212404080	2	101.5				37	55	147	4.465	
	A70021100	0	123.0				0.5	0.8	-	2.654	
4"	A700211404100	1	126.0	100.8	260	620	20	30	80	4.804	25
	A700212404100	2	128.5				32	48	128	7.104	
	A70021125	0	150.0				0.5	0.8	-	3.815	
5"	A700211404125	1	153.0	125.2	330	680	14	21	56	6.265	10
	A700212404125	2	156.5				22	34	90	9.015	
	A70021150	0	175.0				0.3	0.5	-	4.558	
6"	A700211404150	1	178.0	150.7	460	790	14	21	56	8.278	10
	A700212404150	2	181.0				22	34	90	12.308	
	A70021200	0	230.0				0.3	0.5	-	7.810	
8" *	A700211403200	1	233.0	197.1	510	1020	17	26	68	13.460	10
	A700212403200	2	236.0				27	41	109	19.400	
	A70021250	0	284.0				0.3	0.5	-	10.100	
10" *	A700211403250	1	288.0	250.5	650	1300	16	24	64	19.830	10
	A700212403250	2	291.5				26	38	102	30.200	
	A70021300	0	336.0		•		0.3	0.5	-	14.950	
12" *	A700211403300	1	339.5	300.3	775	1550	12	18	48	25.820	10
	A700212403300	2	343.0				19	29	77	37.300	

Hose-On-Reel

The working Pressure with Single / Double wire Braid is based on Braiding specification of Series 1104

Advantages of reeling

- Braided Hose-On-Reel is segmented into a continuous length to reduce scrap
- * Convenient handling, storage and Inventory Control
- * Reduces shelf space

Series A 700 Braided	Series A 700 Braided Annular Hose-on-Reel & Single Braid						
Nominal Hose	Reel Qty	Reel dia	Reel width				
Size (In)	mtrs	mm	mm				
3/4"	150	700	700				
1"	150	1050	350				
1 1/4"	125	1050	500				
1 1/2"	100	1050	700				
2"	75	1050	700				
2 1/2"	60	1200 900					
3"	45	1200	900				
4"	25	Coil form					
5"	10	Straight length					
6"	10	Straight length					
8",10" & 12"	10	Straight	length				

ISO 9001:2008

^{*} Available in 304, 321,316L Stainless Steel

^{*} Shipped in Mill lengths or Braided Hose-On-Reels for easy Fabrication

^{*} Hose 8" , 10" & 12" NB are Braided braid



Fixed nipple with external threads



Part number	Material
16015	Steel
16012	Brass
16017	Stainless steel

Fitting with rolling nut and a conical 60 degree conus



Part number	Material
16035	Steel
16037	Stainless steel

Three part internal threaded union fitting with conical sealing



Part number	Material
16055	Steel
16050	Annealed casting
16057	Stainless steel
16052	Brass

Three part external threaded union fitting with conical sealing



Part number	Material
16060	Annealed casting
16062	Brass
16067	Stainless steel

Pipe nipple, with external thread



Part number	Material
16005	Steel
16007	Stainless steel

Pipe sleeve, with internal thread



Part number	Material
16025	Steel
16027	Stainless steel



Fitting with rolling nut and a flat sealing



Part number	Material
16095	Steel
16092	Brass
16097	Stainless steel

Elbow -90 degree



Part number	Material
33915	Steel
33912	Copper
33917	Stainless steel

Pipe



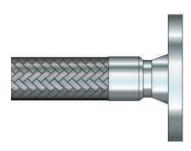
Part number	Material
16215	Steel
16213	Copper, extenal soldering
16223	Copper, internal soldering
16217	Stainless steel

Loose flange, standard PN16



Part number	Material
16235	Steel
16237	Stainless steel
16238	Steel flange + SS collar
16239	Galvanised flange + SS collar

Fixed flange, standard PN16



Part number	Material
16255	Steel
16257	Stainless steel



SMS- nipple. (Dairy standard)



Part number	Material
0626	Stainless steel

SMS- Nut (Dairy standard)



Part number	Material
0624/0623	Stainless steel

Camlock, Male



Part number	Material
SS-Male	Stainless steel
BZ-Male	Bronz, Brass

Camlock, Female



Part number	Material
SS-Female	Stainless steel
BZ-Female	Bronz, Brass

Clamp, TC



Part number	Material
5628	Stainless steel



Regional Sales: +971 4 885 6150

centrepoint@cp-dubai.com

www.cp-dubai.com

Dubai Investment Park 1, Dubai, UAE