

Why Manuli?

Manuli Hydraulics is focused on achieving excellence in the design, manufacture and supply of fluid conveyance solutions, components and associated equipment for high pressure hydraulics, refrigeration and oil and marine applications.

> Quality and sustainable development are the driving forces of all Manuli Hydraulics' activities, with an aim to guarantee worldwide availability of technical and commercial support for it's products and services.



Modern hydraulics applications require robust fluid connector solutions with guaranteed long lasting performance. To that end, Manuli Hydraulics offers a complete range of hoses, fittings and assembly equipment which are designed to work seamlessly together. This harmonised approach allows us to guarantee the quality and performance of hose assemblies in a way that others cannot match.

From design to manufacture and assembly, our commitment to this unified philosophy makes us the global leader in providing integrated solutions for hydraulic connector applications.



Cryoflex on the other hand remains flexible down to -57°C (-70°F).





Integration for the highest quality assemblies

The Cryoflex range can be combined with a variety of Manuli Hydraulics' fittings, ensuring a long-lasting and robust assembly.

With skive and no-skive solutions available, it is possible to adopt a fully integrated approach to hose manufacturing.

Skive solutions

Manuli Hydraulics' range of two piece fittings are manufactured with an eco-friendly zinc plating treatment, which also provides high corrosion resistance. For smaller Cryoflex hose the Multifit range provides an ideal solution, whilst Interlock Plus can be used for the larger sizes. Both solutions are highly robust, with Interlock Plus available in stainless steel for increased durability.



TECHNICAL DATA SHEETS

CRYOFLEX/21

EXTREME COLD ENVIRONMENTS



KEY FEATURES

- Good flexibility also at very low temperatures
 Reduced Bend radius, according to compact hoses standard requirements
 Easy mounting in any installation
 High impulse resistance according to ISO 18752 requirements
 Weight saving vs traditional hose construction
 No-skive fitting solution is available
 Isobaric pressure rating for easy selection and product management

APPLICATIONS & FLUIDS



- Medium pressure hydraulic lines for general hydraulics in extreme cold environments
- · Return lines of hydraulic systems
- · Applications with installation constraints (short assemblies, compact spaces, low bend radii, etc.)
- · Mineral oils, vegetable oils and synthetic ester based oils (up to 100°C/212°F), glycols and polyglycols, mineral oils in aqueous emulsion, water

TECHNICAL DATA

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	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std1	Std2
H01158016*	16	- 10	5/8"	22,2	0,87	24,0	0,94	210	3040	840	12180	100	3,94	609	0,41	MF+M03400-10	OPF-10
H01158019*	19	- 12	3/4"	25,6	1,01	27,7	1,09	210	3040	840	12180	120	4,72	765	0,51	MF+M03400-12	OPF-12

CONTINUOUS SERVICE TEMPERATURE RANGE

-70 °F / 212 °F -57 °C / 100 °C

TUBE

Oil resistant synthetic rubber

REINFORCEMENT

2 high tensile steel braids

Synthetic rubber with high abrasion, ozone, weather and heat resistance

APPLICABLE SPECS ISO 18752-B Ext.

TYPE APPROVALS

MSHA



TECHNICAL DATA SHEETS

CRYOFLEX/35

EXTREME COLD ENVIRONMENTS



KEY FEATURES

- Good flexibility also at very low temperatures
 Bend radius which exceed the standard requirements by 30% to -50%
 Easy mounting in any installation
 High impulse resistance according to ISO 18752 requirements
 Weight saving of 20% vs traditional R13 hose construction
 No-skive fitting solution is available
 Isobaric pressure rating for easy selection and product management

APPLICATIONS & FLUIDS



- · High pressure power lines for general hydraulics in extreme cold environments
- Applications with installation constraints (short assemblies, compact spaces, low bend radii, etc.)
- · Mineral oils, vegetable oils and synthetic ester based oils (up to 100°C/212°F), glycols and polyglycols, mineral oils in aqueous emulsion, water

TECHNICAL DATA

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PART. REF.	HOSE SIZE		R.O.D.		O.D.		MAX W.P.		BURST		MIN.BEND		WEIGHT		FITTINGS		
1.5%	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std1	Std2
H01159006*	6	- 4	1/4"	11,3	0,44	13,1	0,52	350	5070	1400	20300	45	1,77	285	0,19	MF+M03400-04	OPF-04
H01159010*	10	- 6	3/8"	15,0	0,59	16,8	0,66	350	5070	1400	20300	65	2,56	390	0,26	MF+M00120-06	OPF-06
H01159012*	12	- 8	1/2"	18,6	0,73	20,4	0,80	350	5070	1400	20300	80	3,15	553	0,37	MF+M00120-08	OPF-08
H01159019*	19	- 12	3/4"	27,5	1,08	29,9	1,18	350	5070	1400	20300	120	4,72	1212	0,81	IP+M01500-12	SP+M05400-12
H01159025*	25	- 16	1"	34,6	1,36	37,0	1,46	350	5070	1400	20300	150	5,91	1773	1,19	IP+M01500-16	SP+M05400-16
H01159031*	31	- 20	1.1/4"	42,1	1,66	44,9	1,77	350	5070	1400	20300	230	9,06	2335	1,57	IP+M01500-20	SP+M05400-20

CONTINUOUS SERVICE TEMPERATURE RANGE

-70 °F / 212 °F -57 °C / 100 °C

Oil resistant synthetic rubber

REINFORCEMENT

Two high tensile steel braids (DN 6÷12). High tensile steel spirals (DN 16÷31).

COVER

Synthetic rubber with high abrasion, ozone, weather and heat resistance

APPLICABLE SPECS

ISO 18752-B Ext.

TYPE APPROVALS

MSHA





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