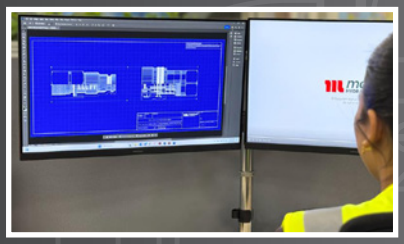
ANACONDA™

Enhanced Performance for Hydrostatic Drives

manuli® HYDRAULICS

"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, industrial material conveyance, refrigeration and cooling applications."



Our experienced Research & Development team take 2D drawings to 3D models to real life products.

Our world-class hoses, fittings and assembly equipment are manufactured in-house to the highest standards.

We test and validate our products to meet and exceed technical industry standards.

DESIGN → **MANUFACTURE** → **TEST** → **INTEGRATED SYSTEMS** → **SUPPLY**

We provide the complete solution: hoses, fittings, crimping parameters and assembly equipment for a fully integrated system.

We supply fluid conveyance solutions directly to our customers whenever and wherever they are.

From design to manufacture, and assembly, Manuli Hydraulics' continual commitment to this unified philosophy makes us a global leader in providing integrated solutions for fluid and material transfer connector applications including hydraulics, refrigeration & air conditioning, oil & gas, water and industrial low-pressure.

Manuli Hydraulics offer a complete range of hoses, fittings and assembly equipment which are purposely designed to work seamlessly together. This harmonized approach allows us to guarantee the quality and performance of our hose assemblies.

Every metre of hose and every single fitting is backed by industry knowledge and experience, made available to you through our dedicated team of application engineers.

From advice on component selection and configuration, our technical expertise allows us to support and work directly with our customers whenever and wherever they are based.

Disclaimer: We reserve the right to modify our products and/or related services and/or discontinue the manufacture and/or supply of any of the products and/or related services, without notice. This document supersedes all previous versions and previously issued documentation. The only official source of technical crimping parameters regarding our products is our Digital Crimp Tools. Printed copies are uncontrolled therefore, please be sure to use the latest versions of our Manuli Crimp App or Crimp Web Tool. Don't mix and match: always use Manuli original hoses and fittings. For more information, see our 'Safety Guide' by scanning the QR code.

DON'T MIX & MATCH

HYDRAULIC HOSE FOR HYDROSTATIC DRIVES

Hydrostatic drives are a widely used method of power transmission, due to their fast response times and ease of speed regulation. However, in order to work to their optimum potential, the components within the circuit must be both robust and reliable. Anaconda is the first hose developed by Manuli Hydraulics specifically to address the unique demands of hydrostatic drive systems.

Hydrostatic drives often require short hose lengths to accommodate tight routing conditions, such as those found in the undercarriages of construction and mining vehicles. This can be challenging because shorter hose lengths require greater bending force, making them more difficult to install in confined spaces.

Anaconda has been designed to alleviate this complication with a reduced bending force to suit difficult undercarriage applications. It also has a very low minimum bend radius which exceeds the standard requirements, making routing easier and reducing the risk of kinks even in these constricted conditions.

Despite this high level of flexibility, Anaconda is highly robust, with a highly abrasion resistant cover compound and a compact structure. It can withstand high pressures of up to 420 bar and exceeds 500,000 cycles in a static test conditions (according to the requirements of ISO 6803), making it both reliable and hardwearing in these static configurations.

FEATURES & BENEFITS

- **Reduced Bending Force:** Anaconda requires less bending force, making installation easier in tight and restricted spaces.
- **Low Minimum Bend Radius:** Its low minimum bend radius enables tighter routing and helps reduce the risk of kinking.
- **Abrasion Resistant Cover:** A highly abrasion resistant cover helps protect the hose in demanding operating environments.
- **Compact Construction:** The compact design supports installation where space is limited, particularly in undercarriage applications.
- **High Pressure Capability:** Anaconda is designed to operate at pressures of up to 420 bar.
- **Proven Durability:** The hose exceeded 500,000 cycles during static testing in accordance with ISO 6803.

SKIVE & NO-SKIVE SOLUTIONS

To support a wide range of hose assembly requirements, Anaconda is compatible with a variety of skive and no skive solutions, including InterLock Plus skive fittings, SpiralFit no skive fittings, and RotoFit anti twist fittings. These connection options support reliable performance across OEM, aftermarket, and high-pressure hydraulic applications.

INTERLOCK PLUS SKIVE SOLUTION

Manuli Hydraulics are the global leader in providing integrated solutions for hydraulic connector applications. As a result, Manuli Hydraulics offers InterLock Plus, a dedicated fitting designed specifically for use with Anaconda.

InterLock Plus is a robust double skive solution that delivers reliable performance in demanding high pressure applications.Its unique design ensures a high-quality seal, ensuring leak-free operation for over 1,000,000 impulse cycles.

SPIRALFIT NO-SKIVE SOLUTION

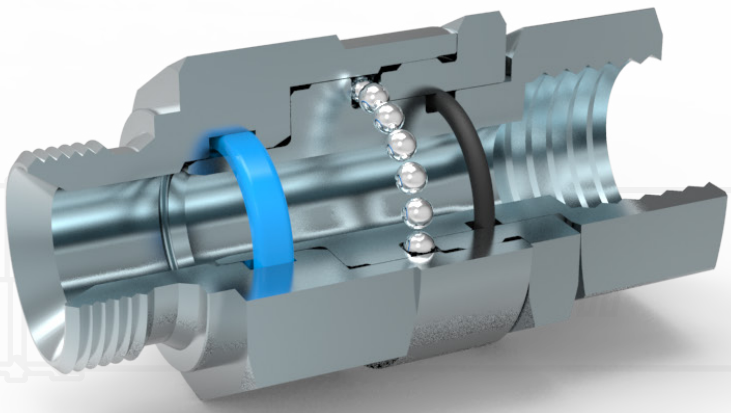
In order to facilitate aftermarket assembly of replacement hoses, Manuli also offers a no-skive fitting solution, SpiralFit. This popular “through-the-cover” range of fittings provides long-lasting, high-quality sealing without the need to skive, making it particularly useful for maintenance in the field.

ROTOFIT

RotoFit is the perfect solution for eliminating hose twist and maximising the service life of Anaconda hose.

RotoFit combines a ball-race bearing with a high pressure, leak free connection to reduce the effects of regular axial twist in applications such as hydrostatic drives. Given that hose twist can radically reduce the operational lifespan of a hose assembly, the use of RotoFit in these applications can significantly lower the maintenance costs both in terms of replacement parts and labour costs.

RotoFit is a direct to hose and direct to port fitting that helps reduce installation space, minimise weight, and limit potential leak points. Its proven double seal design provides reliable leak prevention in demanding high-pressure applications.



ANACONDA

HEAVY DUTY, LOW BENDING FORCE

FEATURES & BENEFITS:

- Low bending force to suit difficult undercarriage installations.
- Bend radius which exceeds the standard requirements.
- Good flexibility across the whole temperature range.
- Easy mounting in static configurations.
- High impulse resistance according to ISO 18752.
- No-skive fitting solution available.
- Isobaric pressure rating for easy selection and product management.

APPLICATIONS & FLUIDS:

High pressure hydraulic lines in hydrostatic transmissions.

Applications with installation constraints, short assemblies in static configurations, low bend radii in undercarriage applications.

Mineral oils, vegetable oils and synthetic ester based oils (up to 100°C/212°F), glycols and polyglycols, mineral oils in aqueous emulsion, water.

PART REF.	HOSE SIZE			R.O.D		O.D		MAX. W.P		BURST		MIN. BEND		WEIGHT		FITTINGS	
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std 1	Std 2
H10132019*	19	-12	3/4”	27.7	1.09	30.2	1.19	420	6,090	1,680	24,360	150	5.91	1,288	0.87	IP+M01500-12	SP+M05400-12
H10132025*	25	-16	1”	35.3	1.39	37.7	1.48	420	6,090	1,680	24,360	210	8.27	2,012	1.35	IP+M01500-16	SP+M05400-16
H10132031*	31	-20	1.1/4”	42.2	1.66	45.5	1.79	420	6,090	1,680	24,360	260	10.24	2,453	1.65	IP+M01500-20	SP+M05400-20
H10132038*	38	-24	1.1/2”	52.5	2.07	55.5	2.19	420	6,090	1,680	24,360	300	11.81	4,076	2.74	IP+M01600-24	
H10132A38* †	38	-24	1.1/2”	50.4	1.98	53.4	2.10	350	5,070	1,400	20,300	300	11.81	3,269	2.19	IP+M01600-24	

† Compact hose

Refer to the latest Manuli Digital Crimp Tools for crimping parameters.

TECHNICAL SPECIFICATIONS:

Continuous Service Temperature Range

-50.0 °F, 250 °F
-46.0 °C, 121 °C

Tube

Oil resistant synthetic rubber.

Reinforcement

Four high tensile steel spirals (six high tensile steel spirals DN 38 standard version).

Cover

STRONG – TYPE “SC”
Synthetic rubber with high abrasion, ozone, weather and heat resistance and an extended operational temperature range.

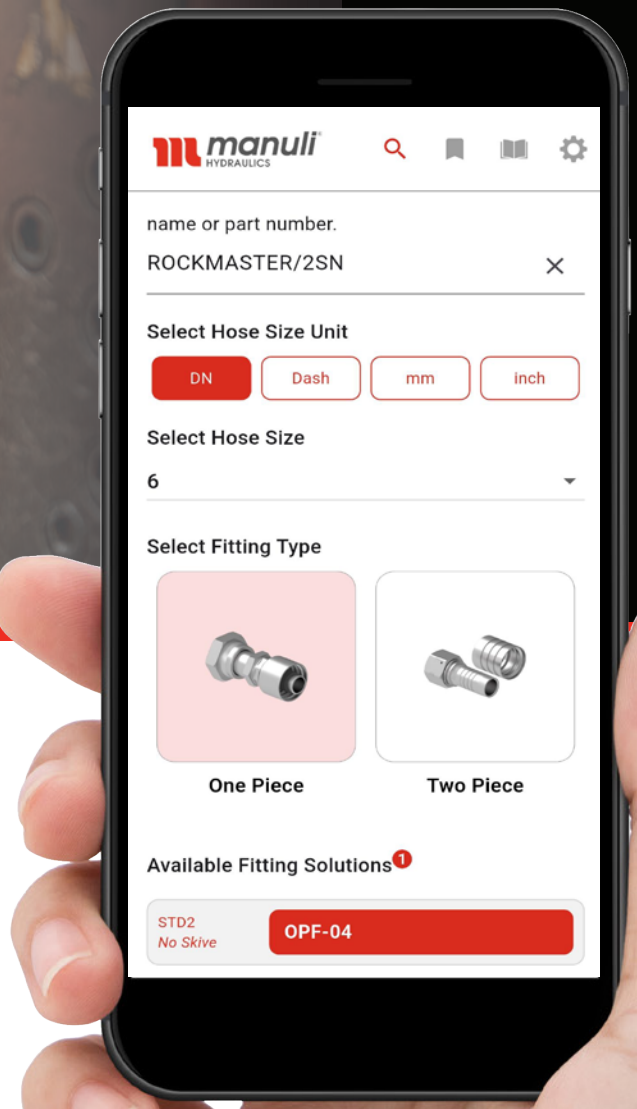
Applicable Standards

ISO 18752 Grade C, exceeds SAE J517 R15, ISO 3862 R15.

Type Approvals

MSHA; CU-TR

Disclaimer: Sizes -12 and -16 are qualified to reduced bend radius with Interlock Plus fitting solution
12: MBR = 110mm
16: MBR = 150mm



manuli® HYDRAULICS CRIMP

YOUR SOURCE FOR THE MOST UP TO DATE CRIMP PARAMETERS

Stay up to date using Manuli's Digital Crimp Tools, available as an App and a Web version, our Crimp Tools are your go-to resource for accurate, efficient, and safe hydraulic hose crimping. Designed with professionals in mind, this innovative tool grants instant access to the latest crimp specifications, ensuring precision, and reliability in every assembly.

Whether in the workshop or on the go, Manuli Digital Crimp Tools provide real-time access to an extensive database of hose and fitting specifications, helping to reduce downtime and boost productivity.

Key Features of Manuli's Digital Crimp Tools:

Print Feature: This feature supports printing crimping parameters as reference charts for both single or multiple hose sizes within a selected hose family, supporting workshop and warehouse use.

Saved Items: Frequently used hose and fitting combinations can be saved within the app, allowing quick access to commonly used crimping parameters during routine hose assembly tasks.

Technical Centre: The Digital Crimp Tools are supported by a dedicated section on our website called the Technical Centre. This integrated resource provides expert insights, practical tips, and industry knowledge, with access to in depth guides and best practice information.

Accurate Crimping Parameters: To ensure accuracy on their crimping parameters, customers should regularly access the Manuli Digital Crimp Tools to check for updates. It is also recommended that printed charts should be reprinted regularly to ensure crimping information remains up to date.

Download the Manuli Crimp App Now

Download on the App Store

ANDROID APP ON Google play

DON'T MIX & MATCH

www.manuli-hydraulics.com

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