ISOBARIC HOSE

Match the Hose for your System











STRONGER CONNECTIONS.
SMARTER SOLUTIONS.

www.ryco-hydraulics.com

ISOBARIC HOSE

MATCH THE HOSE FOR YOUR SYSTEM

MATCH YOUR HOSES TO YOUR SYSTEM PRESSURE





- **STREAMLINE YOUR PRODUCTIONS**
- **STREAMLINE YOUR COSTS**
- **USE ISOBARIC**
- **MATCH YOUR HOSES TO YOUR SYSTEM PRESSURE**

Today's equipment calls for the highest quality, robust and extremely flexible hoses. Ryco's solution – our Isobaric hose range.

Ryco's Isobaric hoses offer constant pressure performance throughout each range. This provides easy product selection and simplifies system design; a hose to suit all of your requirements.

The bright laylines help with product identification and selection.

KEEP YOUR EQUIPMENT PERFORMING AT ITS BEST

215 Bar 3100 psi





Recommended for high pressure systems, with its distinctive gray hose layline the **T3000** and **H3000** series provides constant pressure performance of 215 bar/3100 psi (245 bar/3500 psi for -4 and -5 T series hoses).

T3000 series braid is tested up to one million cycles giving your Ryco hose assembly greater longevity.

H3000 series spiral's compact design has reduced weight and increased flexibility giving savings over its counterparts.

Available in **Ryco DIEHARD™** and **Ryco SLIDER™** hose covers.

250 Bar 3625 psi



Recommended for high pressure systems, with its distinctive blue hose layline cover the **T3600** series provides constant pressure performance of 250 bar/3625 psi across all hose sizes.

T3600 series braid is tested up to five hundred thousand cycles giving you greater security.

Minimum bend radius is 25% less than published SAE 100R17 minimum bend radius. Greater flexibility and reduced weight means greater savings to you.

Available in **Ryco DIEHARD™** and **RYCO SLIDER™** hose covers.



280 Bar
4100 psi



Recommended for high pressure systems, with its distinctive yellow hose layline cover the **T4000** and **H4000 series provides constant pressure** performance of 280 bar/4100 psi across all hose sizes.

H4000 The compact design and construction gives greater flexibility, easier routing and cost savings.

Available in **Ryco DIEHARD™** and **Ryco SLIDER™** hose covers.



350 Bar
5100 psi



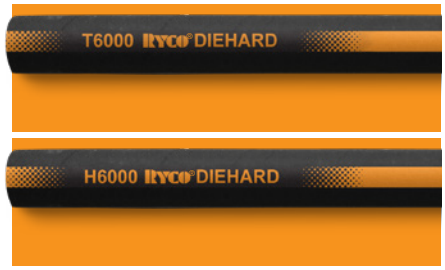
Recommended for very high pressure systems, with its distinctive red hose layline the **T5000** and **H5000** series provides constant pressure performance of 350 bar/5100 psi across all hose sizes.

H5000 series spiral is tested to one million cycles at up to half of SAE 100R13 minimum bend radius.

Available in **Ryco DIEHARD™** and **Ryco SLIDER™** hose covers.



420 Bar
6100 psi



Recommended for extremely high pressure systems, with its distinctive orange hose layline the **T6000** and **H6000** series provides constant pressure performance of 420 bar/6100 psi across all hose sizes.

H6000 With greater flexibility and tested to one million impulse cycles you get extended hose life and exceptional durability.

Available in **Ryco DIEHARD™** and **Ryco SLIDER™** hose covers.

ISOBARIC HOSE

CHOOSE ISOBARIC HOSE



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. Do not 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







ISOBARIC HOSE
WORLD FIRST
H6032 - DN51 - 420 BAR

Ryco introduces another World's First with the release of the H6032 hose which complements Ryco's industry leading products.

H6032 FEATURES:
2"/DN51 HOSE SIZE
420 BAR/6100 PSI
400mm /15.8" MINIMUM BEND RADIUS
1 MILLION IMPULSE CYCLES
H6032 2" (DN51)"WORLD FIRST"
DIEHARD™ & SLIDER™ COVERS

SPIRAL HOSE
H SERIES

A very small bend radius betters, by up to a half, the minimum bend specified by industry standards, and meets or exceeds competitive offerings.

Improved routing and installation along with reduced weight means your hydraulic system is more compact and economical.

All RYCO Isobaric hoses have a high performance Nitrile-blend tube that is engineered for use with a broad range of fluids, including biodegradeable hydraulic fluids.

H SERIES:
SPIRAL HOSE
HALF SAE MINIMUM BEND RADIUS
HIGHLY FLEXIBLE
REDUCED WEIGHT
PROVEN TO 1 MILLION CYCLES
DIEHARD™ & SLIDER™ COVERS

BRAID HOSE
T SERIES

T SERIES:
BRAID HOSE
HALF SAE MINIMUM BEND RADIUS
HIGHLY FLEXIBLE
REDUCED WEIGHT
T3000 PROVEN TO 1 MILLION CYCLES
DIEHARD™ & SLIDER™ COVERS

ISOBARIC HOSE

BRANDING & CROSS OVER CHART

RYCO MATCHED SYSTEM

RYCO hoses and couplings are designed and engineered to match for maximum safety, leak-free performance and exceptional productivity and reliability.

H SERIES SPIRAL HOSE



T6000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
H6000 sizes -12 to -32.



T7000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
H3000 and H4000 all sizes.
H5000 sizes -06 to -24.
H6000 sizes -06 to -20.



T9000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
H5000 size -32 only.



66000N SERIES
Bitelok interlok two-piece crimp internal/external skive

For RYCO Hose Series:
H6000 sizes -12 to -32.

T SERIES BRAID HOSE



T2000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
T3000, T3600, T4000, T5000 and T6000 all sizes.

PRESSURE RANGE / HOSE SERIES

	420 bar/6100 psi
	350 bar/5100 psi
	280 bar/4100 psi
	250 bar/3625 psi
	215 bar/3100 psi

LAYLINE IDENTIFICATION

Color-coded system enables easy and permanent identification of hoses.

RYCO HOSE COVERS



DIEHARD™
- Extra abrasion resistant
- MSHA flame resistant
- FRAS flame resistant and anti-static



SLIDER™
- Extremely abrasion resistant
- MSHA flame resistant
- FRAS flame resistant and anti-static

COVER TYPE



DIEHARD™



SLIDER™

PART NUMBER

Incorporates information relating to RYCO hose series, nominal hose size, and cover type in a simple, concise manner.

SIZE

The nominal size of the hose is displayed in three commonly used formats (example shown below in appearance of order):

1” (Inch Size)
-16 (Dash Size)
DN25 (Metric/DN Size)

WORKING PRESSURE

RYCO Isobaric range of hose working pressures vary from 215 bar/3100 psi to 420 bar/6100 psi.

FLAME RESISTANCE

Flame Resistance and Anti-Static (FRAS) and/or flame resistance properties (MSHA) of the hose are clearly stated and visible.



RYCO ISOBARIC PRESSURE CROSSOVER CHARTS

USE THE CHARTS BELOW FOR EASY HOSE SELECTION.

Simply find the required pressure that suits your system's requirements and the chart identifies which Isobaric hose type and size meets your pressure requirement.

To use the below charts:

1. Locate the table row that suits your system's pressure requirement.
2. Read across until you intersect the desired hose dash size column.
3. The resulting table cell will contain the RYCO Isobaric hose part number to suit your system's pressure requirements.
4. The cell colour relates to the table legend and indicates:
   - Applicable industry hose standard.
   - Ryco hose replacement.

ISOBARIC EQUIVALENT TO SAE SPECIFICATIONS

MAXIMUM WORKING PRESSURE	HOSE DASH SIZE -04	-05	-06	-08	-10	-12	-16	-20	-24	-32
215 BAR 3,100 PSI	T3004	T3005	T3006	T3008	T3010	T3012	T3016	H3020	H3024	H3032
250 BAR 3,625 PSI	T3604	T3605	T3606	T3608	T3610	T3612	T3616			
280 BAR 4,100 PSI	T4004	T4005	T4006 H4006[2]	T4008[1] H4008[2]	T4010 H4010[2]	T4012 H4012[2]	H4016[2]	H4020	H4024	H4032
350 BAR 5,100 PSI	T5004	T5005	T5006 H5006	T5008[1] H5008	H5010	H5012	H5016	H5020	H5024	H5032
420 BAR 6,100 PSI	T6004	T6005	T6006 H6006	H6008	H6010	H6012	H6016	H6020	H6024	H6032

Exceeds SAE 100R1 Replace RYCO T1 & DF1

Exceeds SAE 100R2 & R16 Replace RYCO T2 & DF2

Exceeds SAE 100R12 Replace RYCO H12

Exceeds SAE 100R13 Replace RYCO H13

Exceeds SAE 100R15 Replace RYCO H15

1 RYCO T28 Maximum Working Pressure higher than SAE 100R2. Please check system working pressure.

2 RYCO H12 Maximum Working Pressure higher than SAE 100R12. Please check system working pressure.

ISOBARIC EQUIVALENT TO EUROPEAN NORM (EN) SPECIFICATIONS

MAXIMUM WORKING PRESSURE	HOSE DASH SIZE -04	-05	-06	-08	-10	-12	-16	-20	-24	-32
215 BAR 3,100 PSI	T3004	T3005	T3006	T3008	T3010	T3012	T3016	H3020	H3024	H3032
250 BAR 3,625 PSI	T3604	T3605	T3606	T3608	T3610	T3612	T3616			
280 BAR 4,100 PSI	T4004	T4005	T4006 H4006	T4008[1] H4008[1]	T4010 H4010	T4012 H4012	H4016	H4020	H4024[3]	H4032
350 BAR 5,100 PSI	T5004	T5005	T5006 H5006	T5008[1] H5008	H5010	H5012	H5016	H5020	H5024	H5032
420 BAR 6,100 PSI	T6004	T6005	T6006[2] H6006[2]	H6008	H6010	H6012	H6016	H6020	H6024	H6032

Exceeds EN857 1SN & 1SC Replace RYCO T1 & DF1

Exceeds EN857 2SN & 2SC Replace RYCO T2 & DF2

Exceeds EN856 4SP Replace RYCO HSP

Exceeds EN856 4SH Replace RYCO HSH

1 RYCO T28 Maximum Working Pressure higher than EN857 2SN & 2SC. Please check system working pressure.

2 Maximum Working Pressure of EN 856 Type 4SP in this size is 445 bar. Use other suitable hoses if Maximum Working Pressure above 420 bar is required.

3 Maximum Working Pressure of EN 856 Type 4SH in this size is 290 bar. Use other suitable hoses if Maximum Working Pressure above 280 bar is required.

RYCO®

SCAN HERE FOR
CONTACT INFORMATION

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