

ULTRASTAR

SAE J2064 TYPE B



KEY FEATURES

APPLICATIONS & FLUIDS

· Bus and off-highway equipment air conditioning systems;

								TE	CHNIC	CAL D	ATA						
m	A CONTRACTOR OF THE PARTY OF TH					Ò		bar		0		\bigcirc		ΚQ		D	
PART. REF.	Н	OSE S	SIZE	R.C).D.	Ο.	D.	MAX	ΚW.	BU	RST	MIN.E	BEND	WEI	GHT	FITTI	INGS
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std1	Std2
H01133005*	5	- 4	3/16"	11,2	0,44	13,0	0,51	35	500	150	2170	85	3,35	217	0,15	SC+C00300-04	SF+K00400-04
H01133008*	8	- 6	5/16"	15,4	0,61	17,2	0,68	35	500	150	2170	85	3,35	336	0,23	SC+C00300-06	SF+K00400-06
H01133010*	10	- 8	13/32"	17,5	0,69	19,3	0,76	35	500	150	2170	95	3,74	385	0,26	SC+C00300-08	SF+K00400-08
H01133012*	12	- 10	1/2"	21,6	0,85	23,4	0,92	35	500	150	2170	115	4,53	533	0,36	SC+C00300-10	SF+K00400-10
H01133016*	16	- 12	5/8"	25,5	1,00	27,3	1,07	35	500	150	2170	135	5,31	676	0,45	SC+C00300-12	SF+K00400-12
H01133022*	22	- 16	7/8"	29,5	1,16	31,5	1,24	35	500	150	2170	100	3,94	724	0,49	SC+C00300-16	SF+K00400-16
H01133028*	28	- 20	1.1/8"	36,1	1,42	38,1	1,50	35	500	150	2170	120	4,72	874	0,59	SC+C00300-20	SF+K00400-20

-40 °F / 257 °F -40 °C / 125 °C

Unique molecular barrier compound made from synthetic rubber (IIR) and advanced nanomaterials

REINFORCEMENT

H01133035* 35 -24 1.3/8" 42,8 1,69 44,8 1,76 35 500 150 2170 120 4,72 1214 0,82

MAX OPERATING TEMPERATURE 140 °C, 284 °F

One steel wire braid

High temperature and environmental resistant syntethic rubber

REFRIMASTER PLUS

SAE J2064 TYPE E

APPLICABLE SPECS

TYPE APPROVALS

GOST-R

SAE J2064 Type B Class I

KEY FEATURES

APPLICATIONS & FLUIDS

· Air conditioning systems (Off-Highway machines, buses, ...). Mobile Refrigeration systems;

TECHNICAL DATA

111	American de la constante de la				Ŏ		bar				\bigcirc		Q			603	
PART. REF.	HOSE SIZE		R.O.D.		O.D.		MAX W.		BURST		MIN.BEND		WEIGHT		FITTINGS		
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std1	Std2
H09071008*	8	- 6	5/16"			12,9	0,51	35	500	250	3620	40	1,57	80	0,05	FC+C00700-06	FC+C01000-06
H09071010*	10	- 8	13/32"			16,2	0,64	35	500	250	3620	50	1,97	140	0,09	FC+C00700-08	FC+C01000-08
H09071013*	13	- 10	1/2"			20,6	0,81	35	500	150	2170	70	2,76	235	0,16	FC+C00750-10	FC+C01050-10
H09071016*	16	- 12	5/8"			24,0	0,94	35	500	150	2170	80	3,15	285	0,19	FC+C00750-12	FC+C01050-12
H09071022*	22	- 16	7/8"			31,0	1,22	35	500	150	2170	120	4,72	405	0,27	FC+C00750-16	

CONTINUOUS SERVICE TEMPERATURE

RANGE -40 °F / 257 °F -40 °C / 125 °C

140 °C, 284 °F

MAX OPERATING TEMPERATURE

REINFORCEMENT

High temperature and environmental resistant syntethic rubber (EPDM)

APPLICABLE SPECS High temperature resistant thermoplastic (PA) SAE J2064 Type E Class I

manuli® HYDRAULICS

Global Sales & Marketing Office Suite 9A, 111 Picadilly, Manchester, M1 2HY

Phone: +44(0)161 871 1130 Fax: +44 (0)161 247 7862 Email: info@manuli-hydraulics.com

manuli® HYDRAULICS















SUPERIOR PRODUCTS FOR REFRIGERATION AND CLIMATE CONTROL APPLICATIONS

ULTRA **STAR

Refri* MASTER PLUS



Manulie R HYDRAULICS







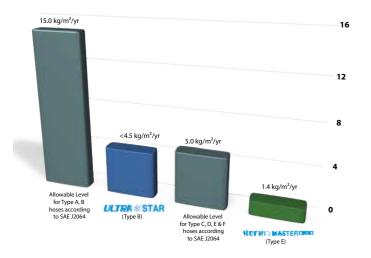




TWO OPTIONS - INFINITE POSSIBILITIES

In the refrigeration and climate control industries applications vary widely, but the standards of quality required are uniformly high. Manuli Refri Division have produced refrigeration hoses which are some of the best and most versatile products on the market, offering two distinct solutions, UltraStar™ and RefriMaster™ Plus. Both ranges share the distinction of having extremely low permeability rates - far exceeding the requirements of SAE J2064 - and having a wide range of standard and customised fitting solutions, including crimped, reusable and field attachable options.

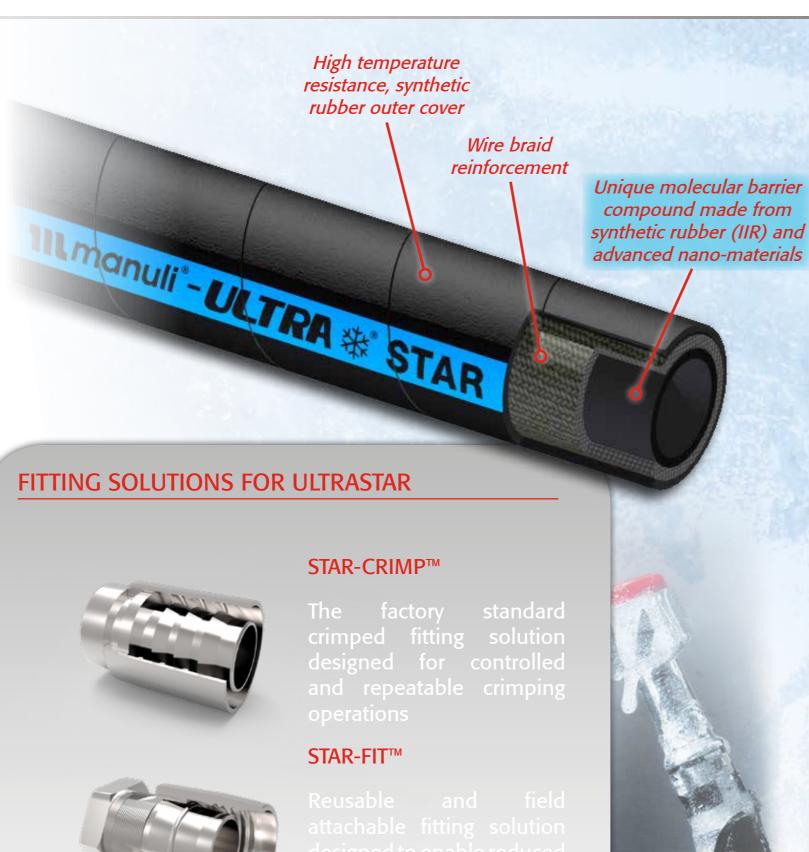
Comparison of Refrigerant Permeation Through Hoses



ULTRA 攀STAR

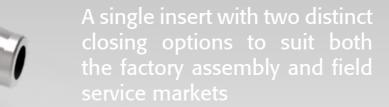
A hydraulic style (Type B - SAE J2064), rubber hose with superior permeability performance.

- Suitable for refrigeration and climate control applications
- Excellent structural strength
- Unique nano-material compound allows superb performance - <4.5 kg/m²/yr - giving a Type B hose performance in excess of Type C, D, E & F requirements (SEA J2064)
- Available in a wide range of sizes from DN 5 to **DN 35**
- Excellent flexibilty and low minimum bend
- **Optional crimped and reuasable fitting** solutions



FITTING SOLUTIONS FOR REFRIMASTER PLUS

FRIGOCLIC™



REFRIX MASTERPLUS

Compact construction style (Type E - SAE J2064) hose with high flexibility and exceptional permeability performance.

- Suitable for refrigeration and climate control applications
- **Excellent compatability with common** refrigerant gases - R134a, R404a, R407C, R401A & HFO 1234yf
- Extremely low permeability rate average of 1.4kg/m²/yr across all sizes
- Improved flexibility and minimum bending radius
- High temperature resistance up to 140°C

Textile braid

reinforcement

- Great resistance to kinking and collapse
- **Optional crimped and field-attachable** solutions

Synthetic rubber outer cover made from an improved EPDM based compound

> Synthetic rubber inner tube with a thermoplastic (PA) veneer

manuli'-Refrix Mastere

ManuliHYDRAULICS



SUPERIOR PRODUCTS FOR REFRIGERATION AND CLIMATE CONTROL APPLICATIONS