



INTERPUMP
FLUID SOLUTIONS 

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- Easy Line
- Four SP
- HyBlast
- HyGreen
- HyShield
- HySOpress
- HySpir
- HyTraktion
- Hy-Washer
- Long Life sewer
- Long Lift
- Material
- Mega Cover
- Megadrill
- One & Two
- TreeAthlon

Click on the product name to access the reference flyer.

Please note that the documentation may be updated or modified.

For technical details, refer to the product catalog or contact our sales office for further assistance.

Clicca sul nome del prodotto per visualizzare il flyer di riferimento.

La documentazione potrebbe essere aggiornata o modificata.

Per dettagli tecnici e maggiori informazioni, consulta il catalogo prodotti o contatta il nostro ufficio vendite.

I.M.M. Hydraulics Spa

Via Italia, 49-51 66041 Atessa (CH) - Italy | Tel +39 (0)872889225

www.interpumpfluidsolutions.com



INTERPUMP

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INTERPUMP FOUR SP

COMPACT & FLEXIBLE

ih **INTERPUMP**  **Hypress** **FOUR SP**



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The **FOUR SP** is our new Four-Spiral High Tensile Hose.

It has been developed from our desire to enhance the current version by making it a more **compact and flexible** design, while maintaining the same level of performance in terms of working pressure.

FEATURES:

HIGH FLEXIBILITY for improved handling.

INCREASED COMPACTNESS for a lighter and more space-saving application, allowing for more compact machine designs.

The Four SP Hose is compliant with all requirements defined in EN 856 4SP and provides a thinner wall size. (the O.D. is 8% less than the current version average)

HOSE	HOSE SIZE			O.D.		MAX W.P.		MIN B.R.		FITTINGS
CODE	DN	INCH	DASH	mm	inch	bar	psi	mm	inch	FERRULE
TSR04SP-06	10	3/8"	6	19,7	0,776	445	6.453	180	7,087	0SI4-06
TSR04SP-08	12	1/2"	8	22,5	0,886	415	6.090	230	9,055	0SI4-08
TSR04SP-10	16	5/8"	10	26,2	1,031	350	5.075	250	9,843	0SI4-10
TSR04SP-12	19	3/4"	12	29,7	1,169	350	5.075	300	11,811	0009-12
TSR04SP-16	25	1"	16	36,7	1,445	280	4.060	340	13,386	0009-16
TSR04SP-20	31	1 1/4"	20	44,6	1,756	210	3.045	460	18,110	004H-20
TSR04SP-24	38	1 1/2"	24	51,5	2,028	210	3.045	560	22,047	004H-24

Internal hose: Synthetic rubber.

Reinforcement: 4 steel wire spirals.

Covering: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions.

Recommended fluid: Mineral and biological oils, glycol-water based, water, lubricants.



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ih INTERPUMP ■■■ HySOpress

The new HySOpress Hose Line, available in four pressure levels (3K, 4K, 5K, and 6K psi) and sizes ranging from 1/4" to 2", with both braided and spiral constructions, is designed to meet the needs of those seeking superior quality hoses that are reliable across multiple applications.

In sectors such as Earth Moving, Agriculture, Material Handling, or Drilling, you can choose the size and working pressure that best suits your requirements, while we ensure the same exceptional reliability, compactness, lightness, and flexibility in every option.

Features

- Compact structure
- High Flexibility
- Low bend radius
- High quality cover
- User-friendly crimping solution

Due to the improved flexibility and extreme bend radius, HySOpress can benefit hydraulic system design, optimisation and cost, in the following key areas:

- Reduced hose assembly length
- Reduction in system fluid capacity
- Overall weight reduction
- Easier assembly routing and compact system design
- Less hose used equals lower cost

Our new N series is a no-skive crimping solution now available for the whole HySOpress WS hose range in both two-piece and pre-crimped options.

HOW TO ORDER (FITTING CODES)

Use the letter "N" as the 5th digit of the part code to order the new N series. Eg: 0050N12-12.
Order the ONI4 or the ONI6 ferrules for the 4WS and 6WS hose.
Use the letter Q or S as the 8th digit of the part code to order the pre-crimped version for 4WS and 6WS hoses. Eg: 0084N12Q36 or 0084N12S36

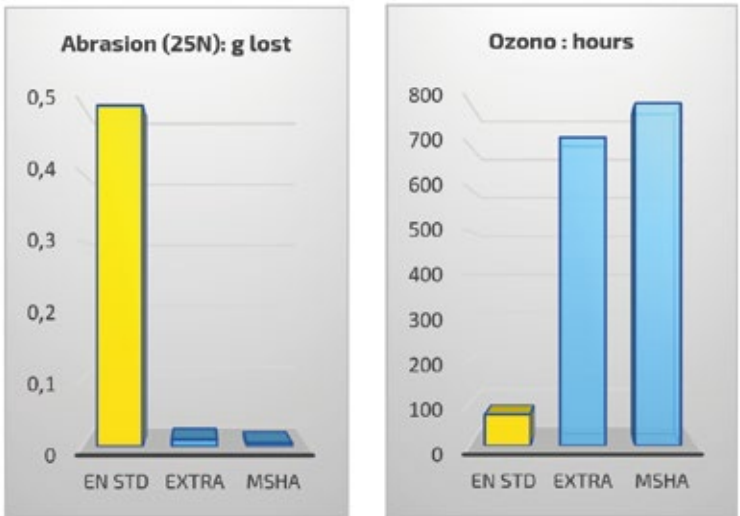
The new "N" series fittings are designed to make assembly easier without sacrificing reliability.



The HySOpress line is available with the Extra cover and the MSHA cover. Both solutions provide high-performance in the most demanding applications.

Tested according to ISO 7326 and ISO 6945. The HySOpress line provides a reliable and innovative replacement for other European and SAE standard hoses.

Four pressure rating levels are available in each size for both the braided (WB) and the spiralled (WS) structure:



		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
Size		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
WP [bar]											
HySOpress 3K WB	TIB2021	225	225	225	210	210	210	210			
		SAE 100 R1 EN 857 15C	SAE 100 R1 EN 857 15C	SAE 100 R1 EN 857 15C	SAE 100 R1 EN 857 15C	SAE 100 R1 EN 857 15C	SAE 100 R2 EN 857 25C	SAE 100 R2 EN 857 25C			
HySOpress 4K WB	TIB2028	280		280	280	280	280				
					SAE 100 R2 EN 857 25C	SAE 100 R2 EN 857 25C	SAE 100 R2 EN 857 25C				
HySOpress 5K WB	TIB2035	350		350	350						
				SAE 100 R2 EN 857 25C	SAE 100 R2 EN 857 25C						
HySOpress 6K WB	TIB2042	420									
		SAE 100 R2 EN 857 25C									
HySOpress 3K WS	TISM021								210	210	210
									SAE 100 R12	SAE 100 R12	SAE 100 R12
HySOpress 4K WS	TISM028					280	280	280	280	280	280
						SAE 100 R12		SAE 100 R12	SAE 100 R12	SAE 100 R12	SAE 100 R12 EN 856 45H
HySOpress 5K WS	TISM035					350	350	350	350	350	350
								SAE 100 R13	SAE 100 R13	EN 856 45H	EN 856 45H
HySOpress 6K WS	TISM042					420	420	420	420	420	420
						SAE 100 R15	SAE 100 R15	SAE 100 R15	SAE 100 R15	SAE 100 R15	SAE 100 R15

The HySOpress WS line's Bend radius corresponds to the hose size and remains the same for each pressure level.

Size	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
-	[mm]									
B.R. WS line			65	90	100	120	150	210	250	315

Look for the stamp:

WB

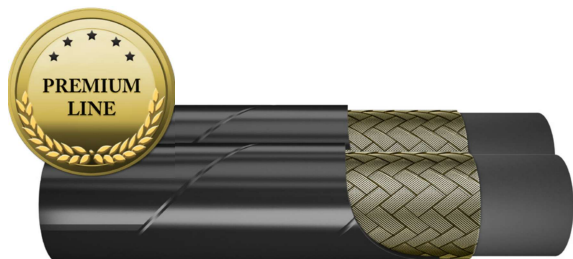
 for the braided series

WS

 for the spiralled series

INTERPUMP LongLife Dual 1SC

T2E101K



APPLICATIONS :



APPLICABLE SPECS. :

EXCEED EN 857 - ISO 11237 1SC

NO-SKIVE hose. High abrasion resistance. Pressure rating exceeding standards. Easy to install. SMOOTH COVER.

Internal hose: Synthetic rubber, extruded whole without joints, of uniform thickness.

Reinforcement: 1 or 2 high tensile steel wire braids.

Covering: Smooth synthetic rubber, resistant to oils, fuels and atmospheric conditions.

Recommended fluid: Mineral and biological oils, glycol-water based, water, lubricants.

Operating temperature: from -40 to + 120° C (Intermittent 135°C), from -40 to +70°C for water based fluids.

Part number	Size	OD mm	T.H. mm	T.H. Max mm	Max WP bar psi	Min BR mm inch	Weight kg/m lb/ft	Ferrule
T2E101KI04	4	12.4	24.8	26	250 3625	50 1.969	0.364 0.244	001C-04
T2E101KI06	6	15.6	31.2	32.6	250 3625	60 2.362	0.420 0.282	001C-06
T2E101KI08	8	19.0	38	39.4	200 2900	70 2.756	0.782 0.525	001C-08

A specific machine is available to split the twin hose . In case of order use code MHSXA001.



MARKING: Available only "mylar"

ih INTERPUMP **EXCEEDS EN 857 - 1SC DN 10 I.D. 3/8" - W.P. 25,0 MPa/3625 PSI**

INTERPUMP LongLife Dual 2SC

T2E102K

APPLICATIONS :



APPLICABLE SPECS.:

EXCEED EN 857 - ISO 11237 2SC



NO-SKIVE hose. High abrasion resistance. Pressure rating exceeding standards. Easy to install. SMOOTH COVER.

Internal hose: Synthetic rubber, extruded whole without joints, of uniform thickness.

Reinforcement: 1 or 2 high tensile steel wire braids.

Covering: Smooth synthetic rubber, resistant to oils, fuels and atmospheric conditions.

Recommended fluid: Mineral and biological oils, glycol-water based, water, lubricants.

Operating temperature: from -40 to +120° C (Intermittent 135°C), from -40 to +70° C for water based fluids, from 0 to +70°C water.

Part number	Size	OD	T.H	T.H. Max	Max WP		Min BR		Weight		Ferrule
		mm	mm	mm	bar	psi	mm	inch	kg/m	lb/ft	
T2E102KI04	4	13.3	26.6	27.8	430	6235	60	2.362	0.566	0.380	001C-04
T2E102KI06	6	17.1	34.2	32.6	350	5075	70	2.756	0.836	0.561	001C-06
T2E102KI08	8	20.5	41	42.4	310	4495	80	3.150	1.042	0.699	001C-08

A specific machine is available to split the twin hose . In case of order use code MHSXA001.



MARKING: Available only "mylar"

ih INTERPUMP *LongLife Dual* **EXCEEDS EN857 - 2SC DN10 I.D. 3/8" W.P. 35,0 Mpa (5075 PSI)**



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 **INTERPUMP**  *Long Lift 1SC*

 **INTERPUMP**  *Long Lift 2SC*

The Long Lift is the best product for each lift truck application. It's the customer's answer to the increasing demands for customisation.

High Ozone and Environmental Resistance:
720hrs @ 50 pphm and 40° according to ISO 7326

The LongLift cover compound ensures the best reliability on the masts even after several bending cycles around the pulleys, avoiding the cover cracking due to the extreme bend radius reached.









High Abrasion Resistance:
up to 0,01 g. of material loss according to ISO 6945

The LongLift cover compound ensures the best protection of the hose even after several turns around the pulleys, avoiding the reinforcement exposure to the weather.



1SC

- Inner tube:** Synthetic rubber, extruded whole without joints, of uniform thickness.
- Reinforcement:** 1 high tensile steel wire braids.
- Coverage:** Smooth synthetic rubber, resistant to oils, fuels and atmospheric conditions.
- Recommended fluids:** Mineral and biological oils, glycol-water based, water, lubricants.
- Working temperature:** From -40 to + 120° C (Intermittent 135°C), from -40 to +70° C for water based fluids, from 0 to +70°C water.

												
Part number	ID		OD	Max WP		Min BP		Min BR		Weight		Ferrule
	in	mm	mm	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	
THL201K-04	1/4"	6.4	12.3	250	3625	1120	16240	50	1.969	0.182	0.122	001C-04
THL201K-05	5/16"	8	13.5	250	3625	1000	14500	55	2.165	0.21	0.141	001C-05
THL201K-06	3/8"	9.5	15.7	250	3625	1000	14500	60	2.362	0.248	0.167	001C-06
THL201K-08	1/2"	12.7	18.9	200	2900	800	11600	70	2.756	0.391	0.263	001C-08
THL201K-10	5/8"	16	22.4	150	2175	600	8700	90	3.543	0.41	0.276	001C-10
THL201K-12	3/4"	19	26	150	2175	600	8700	100	3.937	0.534	0.359	001C-12
THL201K-16	1"	25.4	33.7	110	1595	440	6380	180	7.087	0.742	0.499	001C-16







The best choice
for lift truck
application!

High flexibility
Compact structure
Small bend radius



2SC

- Inner tube:** Synthetic rubber, extruded whole without joints, of uniform thickness
- Reinforcement:** 2 high tensile steel wire braids.
- Coverage:** Smooth synthetic rubber, resistant to oils, fuels and atmospheric conditions.
- Recommended fluids:** Mineral and biological oils, glycol-water based, water, lubricants.
- Working temperature:** From -40 to + 120° C (Intermittent 135°C), from -40 to +70° C for water based fluids, from 0 to +70°C water.

												
Part number	ID		OD	Max WP		Min BP		Min BR		Weight		Ferrule
	in	mm	mm	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	
THL202K-04	1/4"	6.4	13.3	430	6235	1720	24940	50	1.969	0.283	0.19	001C-04
THL202K-05	5/16"	8	14.8	400	5800	1600	23200	60	2.362	0.324	0.218	001C-05
THL202K-06	3/8"	9.5	17.1	350	5075	1400	20300	70	2.756	0.418	0.281	001C-06
THL202K-08	1/2"	12.7	20.4	310	4495	1240	17980	80	3.15	0.521	0.35	001C-08
THL202K-10	5/8"	16	23.5	280	4060	1120	16240	100	3.937	0.626	0.421	001C-10
THL202K-12	3/4"	19	27.6	240	3480	960	13920	120	4.724	0.764	0.513	001C-12
THL202K-16	1"	25.4	35.8	210	3045	840	12180	160	6.299	1.171	0.787	001C-16



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ih INTERPUMP ■■■ Hypress 1NESN

ih INTERPUMP ■■■ Hypress TW2SN

The **SN series** pushing on the innovation and on the performance.

Key features

- Designed to be fully in compliance with the dimensions of the international standard: EN 853 1SN-2SN / ISO 1436 1SN-2SN/SAE 100 R1AT-R2AT
- Lightness
- Half Bend Radius: min. bend radius up to half of the EN requirement and in line with the compact version;
- Impulse performance: the new lines have been tested to twice the EN requirements;
- Cover: Super cover compound to exceed the EN requirement;
- Qualifications: all qualifications are available if requested;
- Fitting availability: released with the no skive and skive solution.

One SN

Inner tube: Synthetic rubber, extruded whole without joints, of uniform thickness.
Reinforcement: 1 steel wire braid.
Coverage: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
Recommended fluids: Mineral and biological oils, glycol-water based, water, lubricants.
Working temperature: From -40 to +100°C (intermittent 120°C), from -40 to +70° C for water based fluids, from 0 to +70°C water.

							
Part number	ID		OD		Max WP		Ferrule
	in	mm	mm		bar	psi	
TFD2012-03	3/16"	4.8	11.2		250	3625	001C-03
TFD2012-04	1/4"	6.4	12.8		225	3263	001C-04
TFD2012-05	5/16"	8	14.4		215	3118	001C-05
TFD2012-06	3/8"	9.5	16.9		180	2610	001C-06
TFD2012-08	1/2"	12.7	19.9		160	2320	001C-08
TFD2012-10	5/8"	16	23.1		130	1885	001C-10
TFD2012-12	3/4"	19	27.2		105	1523	001C-12
TFD2012-16	1"	25.4	35.2		88	1276	001C-16
TFD2012-20	1.1/4"	31.8	42.6		63	914	001C-20
TFD2012-24	1.1/2"	38.1	49.6		50	725	001C-24
TFD2012-32	2"	50.8	63.0		40	580	001C-32

Applications







Agriculture, industrial vehicles, handling and earth moving

Move up on
the exceeding
performance



Two SN

Inner tube: Synthetic rubber, extruded whole without joints, of uniform thickness
Reinforcement: 2 high tensile steel wire braids.
Coverage: Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions
Recommended fluids: Mineral and biological oils, glycol-water based, water, lubricants
Working temperature: From -40 to +100°C (intermittent 120°C), from -40 to +70° C for water based fluids, from 0 to +70°C water

							
Part number	ID		OD		Max WP		Ferrule
	in	mm	mm		bar	psi	
TFD2022-03	3/16"	4.8	12.8		415	6018	0022-03
TFD2022-04	1/4"	6.4	14.3		400	5800	0022-04
TFD2022-05	5/16"	8	15.9		350	5075	0022-05
TFD2022-06	3/8"	9.5	18.5		330	4785	0022-06
TFD2022-08	1/2"	12.7	21.5		275	3988	0022-08
TFD2022-10	5/8"	16	24.7		250	3625	0022-10
TFD2022-12	3/4"	19	28.8		215	3118	0022-12
TFD2022-16	1"	25.4	37.2		165	2393	0022-16
TFD2022-20	1.1/4"	31.8	46.5		125	1813	0022-20
TFD2022-24	1.1/2"	38.1	53.1		90	1305	0022-24
TFD2022-32	2"	50.8	65.8		80	1160	0022-32



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 INTERPUMP  **TREEATHON** 

Designed with the vision of superior performance, reliability and user-friendliness, the **TreeAthlon** line of hydraulic hose best expresses our vision as designers and manufacturers.

The **COMPACT DESIGN** saves on both space and weight, with the outside diameter being 7% smaller than other products on the market and 10% smaller than standard 4SP. All in accordance with EN 853 2SN standards. This makes the Treeathlon line of hose a must-have for mobile and lift applications.

The high **WORKING PRESSURE** exceeds that of standard 4SP, qualifying the hose for use in a wide range of Hydraulic applications without high or rapid pressure peaks (such as the mobile and lift sectors) especially those where the pressure-to-weight ratio is fundamental.

The **NO-SKIVE CRIMPING** solution is Impulse tested to 120% of the Working Pressure, promoting reliability and ease of use.



The **NBR INNER LAYER** of Treeathlon permits wide compatibility with hydraulic fluids. Combined with the outer cover's high abrasion and ozone resistance, Treeathlon can reliably work in tough conditions.

High working pressure

Compact design

User friendly



The **H32 MOBILE CRIMPER** is the ideal match for swaging 0022 and 003C series ferrules on TreeAthlon hoses. This crimper is a hydraulic, 12/24V machine designed to be installed on vans or mobile workshops. Its compact size allows it to fit in small spaces, and its reliability ensures accurate crimping and performance.



- Inner tube:** Synthetic rubber, extruded whole without joints, of uniform thickness
- Reinforcement:** 3 high tensile steel wire braids.
- Coverage:** Anti-abrasive synthetic rubber, resistant to oils, fuels and atmospheric conditions.
- Recommended fluids:** Mineral and biological oils, glicol-water based, water, lubricants
- Working temperature:** From -40 to + 100° C petroleum based fluids (Intermittent 120°C), from -40 to +70° C for water based fluids, from 0 to +70°C water.

<div>ih</div> <div>Part number</div>	<div>⌀</div> <div>ID</div>		<div>⌀</div> <div>OD</div>	<div>💡</div> <div>Max WP</div>		<div>💡</div> <div>Min BP</div>		<div>🔌</div> <div>Min BR</div>		<div>⚖️</div> <div>Weight</div>		<div>🔗</div> <div>Ferrule</div>
	in	mm	mm	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	
THE0T3K-06	3/8"	9.5	18.8	500	7250	2000	29000	110	4.331	0.584	0.392	0022-06
THE0T3K-08	1/2"	12.7	22.4	475	6888	1900	27550	140	5.512	0.833	0.560	003C-08
THE0T3K-10	5/8"	16.0	25.8	420	6090	1680	24360	200	7.874	0.967	0.650	003C-10
THE0T3K-12	3/4"	19.0	29.6	380	5510	1520	22040	240	9.449	1.189	0.799	003C-12
THE0T3K-16	1"	25.4	38.0	315	4568	1260	18270	300	11.811	1.737	1.167	003C-16

The 003C ferrule is recommended for serial hose assembly production; while the previously used ferrule 0022 is for service.