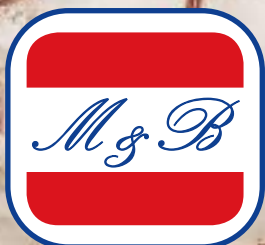


Monti & Barabino

**Technical Supplies
For Industrial and Naval field
Since 1880**



**HYDRAULIC HOSES
PRODUCT RANGE**



Monti & Barabino, established in 1880, is based in Genoa and operates in the field of Technical Items supplies for the Industrial and Maritime Sectors.

The extremely wide experience matured in more than 135 years of activity and its highly qualified personnel composed by technicians, marine engineers, naval architects etc., enables the Company to offer the most complete and efficient technical and commercial assistance.

Moreover, the products stocked in its large warehouse allows it to promptly satisfy any kind of enquiry, while its workshop is able to manufacture all types of packings and gaskets comprising the moulding of rubber and elastomer of various types, including silicon, Fluoropolymer, Polyurethane, etc.

Since February 2004, Monti & Barabino S.p.A. improved its Quality Management System in accordance with **UNI EN ISO 9001** regulations, obtaining the certification through **R.I.N.A.** This prestigious acknowledgement is a confirmation of our constant effort in offering excellent quality and service to all those Customers who have chosen and will choose our Company as their supplier.



Our workshop, acting as  **Parker** Official distributor, is able to offer:

- FLEXIBLE HOSES FOR LOW, MEDIUM AND VERY HIGH PRESSURE
- MED APPROVED FLEXIBLE HOSES
- TYPE APPROVED SHIP TO SHORE AND INDUSTRIAL COMPOSITE HOSES
- HIGH PRESSURE STEAM HOSES
- HIGH PRESSURE CLEANING HOSES
- RUBBER, STAINLESS STEEL AND TEXTILE EXPANSION JOINTS

Moreover:

- HYDRAULIC TEST FACILITIES
- MANAGEMENT OF TESTING PROCEDURES IN PRESENCE OF CLASSIFICATION BODIES
- PRESSED FITTINGS ON LARGE BORE RUBBER HOSES UP TO 10"

MECHANICAL WORKSHOP and **PIPE WORKSHOP** are available for the execution of customized processes on our semi-finished products. Thanks to the wide availability of **WAREHOUSE** we are able to satisfy your needs in a short time, organizing and managing your shipments in a very short time.

We perform CNC turning and cutting on rubber and metal semi-finished products; we mold details and rubber gaskets.



We produce gaskets in any material, even according to Customer's design, including padded copper and spiral wound gaskets.

We sew and assemble insulating mats and textile joints: wide choice of fabrics for high temperatures.



Laser marking of finished products and components

We are an authorized **Parker** assembling center, hydraulic hoses up to 3" and industrial hoses up to 10".

Ask for our **FLEXIBLE HOSES** and **ACCESSORIES CATALOG**



Approved welders able to manufacture special fittings according to Customer's specifications.

We perform internal hydrostatic tests, also in the presence of an external Certifying Body.



421SN

No-Skive

DIN EN 853 1SN – ISO 1436 Type 1

Primary Applications

General medium pressure hydraulic applications

Type Approvals

See pag 8

Applicable Specifications

DIN EN 853 1SN – ISO 1436

Type 1 – SAE 100R1AT

Construction

Tube: Nitrile (NBR)

Reinforcement: One high-tensile steel wire braid

Cover: Synthetic rubber

Temperature Range

-40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- **No-Skive** thin cover hose construction
- Nitrile (NBR) inner tube
– extended fluid compatibility

Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
421SN-4	6	1/4	-4	6.3	13.4	22.5	3250	90.0	13000	100	0.24
421SN-5	8	5/16	-5	7.9	15.0	21.5	3125	86.0	12500	115	0.27
421SN-6	10	3/8	-6	9.5	17.4	18.0	2600	72.0	10400	130	0.34
421SN-8	12	1/2	-8	12.7	20.7	16.0	2325	64.0	9300	180	0.43
421SN-10	16	5/8	-10	15.9	23.9	13.0	1875	52.0	7500	200	0.49
421SN-12	20	3/4	-12	19.1	27.8	10.5	1525	42.0	6100	240	0.63
421SN-16	25	1	-16	25.4	35.8	8.8	1275	35.0	5075	300	0.94
421SN-20	32	1-1/4	-20	31.8	44.8	6.3	900	25.2	3600	420	1.19
421SN-24	40	1-1/2	-24	38.1	51.1	5.0	725	20.0	2900	500	1.49
421SN-32	50	2	-32	50.8	64.7	4.0	575	16.0	2300	630	2.23

The combination of high temperature and high pressure could reduce the hose life.

301SN

No-Skive

DIN EN 853 2SN – ISO 1436 Type 2

Primary Applications

General medium pressure hydraulic applications

Type Approvals

See pag 8

Applicable Specifications

DIN EN 853 2SN – ISO 1436

Type 2 – SAE 100R2AT

Construction

Tube: Nitrile (NBR)

Reinforcement: Two high-tensile steel wire braids

Cover: Synthetic rubber

Temperature Range

-40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- **No-Skive** thin cover hose construction
- Nitrile (NBR) inner tube
 - extended fluid compatibility
- Suitable with 48 series fittings

Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
301SN-4	6	1/4	-4	6.3	15.0	40.0	5800	160.0	23200	100	0.39
301SN-5	8	5/16	-5	7.9	16.6	35.0	5075	140.0	20300	115	0.42
301SN-6	10	3/8	-6	9.5	19.0	33.0	4775	132.0	19100	130	0.55
301SN-8	12	1/2	-8	12.7	22.2	27.5	4000	110.0	16000	180	0.67
301SN-10	16	5/8	-10	15.9	25.4	25.0	3600	100.0	14500	200	0.77
301SN-12	20	3/4	-12	19.1	29.3	21.5	3100	86.0	12400	240	1.00
301SN-16	25	1	-16	25.4	38.1	16.5	2400	66.0	9600	300	1.49
301SN-20	32	1-1/4	-20	31.8	47.5	12.5	1800	50.0	7200	420	1.73
301SN-24	40	1-1/2	-24	38.1	55.0	9.0	1300	36.0	5200	500	2.14
301SN-32	50	2	-32	50.8	67.0	8.0	1150	32.0	4600	630	2.96

The combination of high temperature and high pressure could reduce the hose life.

462TC

Elite No-Skive Compact Tough Cover
Exceeds EN 857-2SC – ISO 11237 Type 2SC

Primary Applications

Demanding medium pressure hydraulic applications in all markets

Type Approvals

Vedi pag 8

Applicable Specifications

Exceed EN 857-2SC – ISO 11237 Type 2SC

Construction

Inner tube: Nitrile (NBR)

Reinforcement: Two high-tensile steel wire braids

Cover: Highly abrasion resistance
MSHA approved

Temperature Range

-40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- **No-Skive** hose construction – Compact design
- Nitrile (NBR) inner tube – extended fluid compatibility
- Exceeding EN/ISO specifications for pressure, bend radius and abrasion resistance
- Highly abrasion resistant **TOUCH COVER**
- MSHA approved

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked.

Fitting Series

Size -4
up to -16



Size -20
up to -32



Size -40
up to -48

2 piece
48

Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. dynamic working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
462TC-4	6	1/4	-4	6.4	13.4	42.5	6160	170.0	24640	75	0.30
462TC-5	8	5/16	-5	7.9	15.0	40.0	5800	160.0	23200	85	0.35
462TC-6	10	3/8	-6	9.5	17.2	35.0	5075	14.0	20300	90	0.42
462TC-8	12	1/2	-8	12.7	20.4	31.0	4495	124.0	17980	130	0.52
462TC-10	16	5/8	-10	15.9	23.9	28.0	4060	112.0	16240	160	0.66
462TC-12	19	3/4	-12	19.1	27.7	28.0	4060	112.0	16240	195	0.86
462TC-16	25	1	-16	25.4	35.4	21.0	3045	84.0	12180	250	1.17
462TC-20*	31	1 1/4	-20	31.8	45.1	17.2	2495	68.8	9980	335	1.80
462TC-24*	38	1 1/2	-24	38.1	52.0	14.6	2118	58.4	8472	400	2.20
462TC-32*	51	2	-32	50.8	64.0	11.2	1624	44.8	6496	500	2.90
462TC-40**	63	2 1/2	-40	63.5	76.0	7.0	1015	28.0	4060	760	3.00
462TC-48**	76	3	-48	76.2	87.5	7.0	1015	28.0	4060	760	3.00

The combination of high temperature and high pressure could reduce the hose life.

* Size -20 up to -32 only with fitting series 48

** Size -40 up to -48 only with 2piece fitting series 48

H29

ParLock Multispiral

Exceeds ISO 3862 Type 4SH – EN 856 Type 4SH

Primary Applications

General high pressure hydraulic applications

Type Approvals

See pag 8

Applicable Specifications

Exceeds ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

Tube: Synthetic rubber

Reinforcement: Four spirals of high-tensile steel wire

Cover: Synthetic rubber

Temperature Range

-40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Reinforcement of four high tensile steel wires

Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

Fitting Series
Internal and external skiving



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. dynamic working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
H29-12	20	3/4	-12	19.1	32.2	43.0	6250	172.0	25000	280	1.7
H29-16	25	1	-16	25.4	38.7	40.0	5800	160.0	23200	340	2.2
H29-20	32	1 1/4	-20	31.8	45.5	35.0	5000	140.0	20000	460	2.6
H29-24	38	1 1/2	-24	38.1	53.5	31.0	4500	124.0	18000	560	3.4
H29-32	50	2	-32	50.8	68.1	28.0	4050	112.0	16200	700	4.8

The combination of high temperature and high pressure could reduce the hose life.

H31

ParLock Multispiral

Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP

Primary Applications

General high pressure hydraulic applications

Type Approvals

See pag 8

Applicable Specifications

Exceeds ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

Tube: Synthetic rubber

Reinforcement: Four spirals of high-tensile steel wire

Cover: Synthetic rubber

Temperature Range

-40 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Reinforcement of four high tensile steel wires

Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

Fitting Series

External skiving (size -4 up to -8)

Internal and external skiving (size -10 up to -16)



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. dynamic working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
H31-4	6	1/4	-4	6.3	17.8	50.0	7250	200.0	29000	120	0.73
H31-6	10	3/8	-6	9.5	21.4	44.5	6450	178.0	25800	130	0.91
H31-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	180	1.08
H31-10	16	5/8	-10	15.9	28.5	39.0	5650	156.0	22600	225	1.39
H31-12	20	3/4	-12	19.1	32.0	35.0	5000	140.0	20300	280	1.73
H31-16	25	1	-16	25.4	39.7	31.0	4500	124.0	18000	355	2.31

The combination of high temperature and high pressure could reduce the hose life.

R42

ParLock Multispiral

Exceeds ISO 3862 Type R15 – Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

See pag 8

Applicable Specifications

Exceeds ISO 3862 Type R15 – Parker Specifications

Construction

Tube: Synthetic rubber

Reinforcement: Four or six spirals of high-tensile steel wire

Cover: Synthetic rubber

Temperature Range

-40 °C up to +125 °C

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Reinforcement of four or six high tensile steel wires
- Constant working pressure of 42.0 MPa

Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

Fitting Series

Internal and external skiving (size -10, -12, -16)



Internal and external skiving (size -20, -24, -32)



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. dynamic working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
R42-10	16	5/8	-10	15.9	28.50	42.0	6 000	168.0	24 000	225	1.39
R42-12	20	3/4	-12	19.1	32.00	42.0	6 000	168.0	24 000	280	1.70
R42-16	25	1	-16	25.4	39.00	42.0	6 000	168.0	24 000	300	2.30
R42-20	32	1-1/4	-20	31.8	50.75	42.0	6 000	168.0	24 000	400	3.80
R42-24	40	1-1/2	-24	38.1	57.00	42.0	6 000	168.0	24 000	500	4.80
R42-32	50	2	-32	50.8	71.50	42.0	6 000	168.0	24 000	700	7.00

The combination of high temperature and high pressure could reduce the hose life.

787TC

No-Skive GlobalCore Compact Spiral™

Tough Cover

Sizes -4 to -6 exceed ISO 18752-AC
 Sizes -8 to -32 exceed ISO 18752-DC

Primary Applications

On- & offshore, construction, injection moulding, mining

Type Approvals

See pag 8

Applicable Specifications

Exceeds SAE 100R13 – ISO 3862 Type R13 –
 EN 856 Type R13 – ISO 18752-AC/DC

Construction

Inner tube: Proprietary synthetic rubber

Reinforcement: Two braid steel wire for sizes -4 to -6, four or six compact spiral steel wire for sizes -8 to -32

Cover: Highly abrasion resistance
 MSHA approved synthetic rubber

Temperature Range

-40 °C up to +125 °C (sizes -4 to -6 up to +100 °C)

Exception: Air max +70 °C
 Water max +85 °C



- 1/2 the bend radius of SAE 100R13
- Constant working pressure of 35.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %
- Highly abrasion resistant **TOUCH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils. Wide Compatibility exceeding Column III, with additional chemical resistance, especially for diesel and biodiesel.

Fitting Series

Series 43/48
 for sizes -4 and -6



Series 77
 for sizes -8 up to -32



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. dynamic working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
787TC-4	6	1/4	4	6,3	13,0	35,0	5000	140,0	2000	50	0,31
787TC-6	10	3/8	-6	10,0	17,2	35,0	5000	140,0	2000	63	0,42
787TC-8	12	1/2	-8	12,7	21,1	35,0	5000	140,0	2000	90	0,67
787TC-10	16	5/8	-10	15,9	23,9	35,0	5000	140,0	2000	100	0,80
787TC-12	19	3/4	-12	19,1	27,9	35,0	5000	140,0	2000	120	1,16
787TC-16	25	1	-16	25,4	35,7	35,0	5000	140,0	2000	150	1,74
787TC-20	31	1 1/4	-20	31,8	44,9	35,0	5000	140,0	2000	210	2,89
787TC-24	38	1 1/2	-24	38,1	52,8	35,0	5000	140,0	2000	255	3,96
787TC-32	51	2	-32	50,8	67,6	35,0	5000	140,0	2000	318	6,50

Replace the hose when any deformation or damage on the hose cover are visible.
 The combination of high temperature and high pressure could reduce the hose life.

797TC

No-Skive GlobalCore Compact Spiral™

Tough Cover

Size -4 exceeds ISO 18752-AC

Sizes -8 to -20 exceed ISO 18752-DC

Sizes -6, -24, -32 exceed ISO 18752-CC

Primary Applications

On- & offshore, construction, injection moulding, mining

Type Approvals

See pag 8

Applicable Specifications

Exceeds SAE 100R15 – ISO 3862 Type R15 – ISO 18752-AC/CC/DC

Construction

Inner tube: Proprietary synthetic rubber

Reinforcement: Two braid steel wire for size -4, four or six compact spiral steel wire for sizes - 6 to -32

Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range

-40 °C up to +125 °C (size -4 up to +100 °C)

Exception: Air max +70 °C

Water max +85 °C



- 1/2 the bend radius of SAE 100R15
- Constant working pressure of 42.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %
- Highly abrasion resistant **TOUCH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Petroleum based hydraulic fluids and lubricating oils. Wide Compatibility exceeding Column III, with additional chemical resistance, especially for diesel and biodiesel.

Fitting Series

Series 43/48 for size-4



Series 43 for size -6



Series 77 for sizes -8 up to -32



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. dynamic working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
797TC-4	6	1/4	4	6,3	13,0	42,0	6000	168,0	24000	50	0,31
797TC-6	10	3/8	-6	10,0	17,0	42,0	6000	168,0	24000	63	0,46
797TC-8	12	1/2	-8	12,7	21,1	42,0	6000	168,0	24000	100	0,67
797TC-10	16	5/8	-10	15,9	23,9	42,0	6000	168,0	24000	115	0,80
797TC-12	19	3/4	-12	19,1	27,9	42,0	6000	168,0	24000	135	1,16
797TC-16	25	1	-16	25,4	35,7	42,0	6000	168,0	24000	165	1,74
797TC-20	31	1 1/4	-20	31,8	44,9	42,0	6000	168,0	24000	225	2,89
797TC-24	38	1 1/2	-24	38,1	52,8	42,0	6000	168,0	24000	305	3,96
797TC-32	51	2	-32	50,8	67,6	42,0	6000	168,0	24000	380	6,50

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.



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