



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Industrial Hoses

Catalogue







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We reserve the right to modify whenever necessary the features and specifications of the products included in this publication without prior notice.

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Parker Hannifin -

the global leader and your partner



Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of mobile, industrial and aerospace markets. Our products are vital to virtually everything that moves or requires control, including the manufacture and processing of raw materials, durable goods, infrastructure development and all forms of transport.

Within Parker's eight operating groups, the company's engineering expertise spans the core motion technologies – electromechanical, hydraulic and pneumatic – with a full complement of fluid handling, filtration, sealing and shielding, climate control, process control and aerospace technologies.

The leader in "dry technology" for the fluid power industry, Parker's Fluid Connectors Group is your single source for high-quality tube fittings, hose and hose fittings, thermoplas-

tic tubing, brass fittings and valves, quickdisconnect couplings and assembly tools. The Fluid Connectors Group serves customers in a broad range of markets, including Aerial Lift, Agriculture, Bulk Chemical Handling, Construction Machinery, Food & Beverage, Fuel & Gas Delivery, Industrial Machinery, Medical, Mining, Mobile, Oil & Gas and Transportation. Products are available for shipment 24 hours a day, supported by 49 manufacturing facilities throughout the world, a global distribution

network and 25 company-owned stocking service centers. Our commitment to you is impeccable customer service. To meet your specific requirements, we offer a broad range of programs designed to reduce your overall operating costs, streamline manufacturing, improve productivity, manage inventory, enhance delivery and address safety and environmental issues. For value-added services that generate value-added solutions, team up with Parker!

Parker Hannifin -

opportunity through innovation in the world's most demanding markets



Worldwide availability

With more than 58.000 employees serving over 465.000 customers in almost 50 countries, Parker is literally everywhere you need us to be. By working with us, you have access to an integrated network of 300+ manufacturing plants, as well as 13.000 distributors and MRO outlets, and over 2.000 ParkerStoresTM. That's the kind of global network global businesses demand.

Flexibility

As the world's motion control expert, Parker offers you a complete range of proven, off-the-shelf products. These products deliver exceptional quality and durability, reducing costs and advancing performance.

Innovation

It's what drives us. Our mandate for continuous improvement leads us to partner with our customers to create solutions that are smaller, lighter, sustainable, more energy efficient, and highly reliable.

Fluid Transfer Hose Europe -

the market leader and your supplier of choice

Established in the 1948. FTHE is widely accepted as both a pioneer and market leader across many industries and markets. Our headquarter is in Lomazzo Italy while engineering/manufacturing facilities are in the USA and in Ireland, and our modern distribution center in Germany rapidly supplies products across Europe and the world. We supply a variety of hoses suitable for multiple media; standard hoses for traditional service as well as heavy duty hoses that provide superior resistance to abrasion, oils, chemicals, heat, flame and cold. We have the ability and expertise to safely handle either hazardous media in harsh environment and valuable and delicate media in protected environment.

The multifaced nature of our division – and our extensive product line – provide a number of possible



solutions to a wide variety of application challenges in almost every industry. From design, development and production to stocked inven-

tory and shipment, we apply our know-how and passion to provide our customers with solid and efficacious solutions.

Our History of Experience

With our history of success and reputation as a world-class manufacturer of flexible rubber hose, we continue to pursue and develop technologies offering the best solution for every application. Recent activities includes: acquisition of Snap-Tite in Ireland, a leading manufacturer of polyurethane flat hoses, introduction of innovative products such as ultra-flexible E-Z Form hose, development of the breakthrough technology such as extremely

abrasion resistant Cergom material handling hose, and special application hoses Carboblue. The latter hoses are environmentaly friendly, providing the required high grade of cleanliness for the SRC technology reducing NOx emission. Our success stories include a number of global OEMs and distributors across many diverse industries.

We contribute to short-and longterm customer profitability by maximizing value through premier product quality and service.

Capabilities

Our manufacturing process is supported by a highly qualified and experienced engineering staff and efficient production equipment. Deployment of these resources ensures precision control of the manufacturing process and materials, as well as the ability to create new design idea and implement solution. With the Snap-Tite acquisition we have augmented our rubber and PVC capabilities with polyurethane lay-flat hose enriching our product portfolio. Now we have introduced in our range new materials such silicone and PTFE to further meet customers' expectations and be more active in the industrial and chemical market segments.

Production line	ID min (mm)	ID max (mm)
Long Length	3	38
Mandrel Made	13	200
PU lay-flat	32	150
PVC	5	300
Thermoplastic	5	75
Silicone	13	51
Custom Made	51	610

Quality

Parker is a company which operates in compliance with the quality system laid down by the UNI EN ISO 9001 and 14001 standard, certified by Det Norske Veritas.

More and more Parker industrial hoses are certified by the main international certification bodies.

Declaration (Lie of Carry Carr

Ecology



Caring for and ensuring the sustainability of the planet is our intention; we therefore develop and improve hoses for alternative fuels like gas, natural oils, ester oils etc. for environmentally-friendly technologies such as the new SCR one.

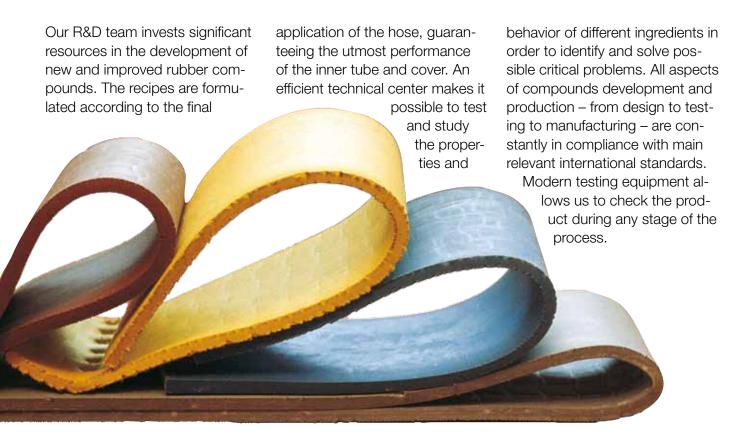
Parker developed nitrosaminefree compounds

to improve the quality of life and of the environment.

We are doing more for our customers than ever before. Globally, we have localized service to provide fast, hassle-free responses and on-site support.

We're staying close to our customers and integrating systems to help them become more profitable. We are committed to delivering our highly engineered products on-time, on-promise.

Compounds



Service - Helpdesk

An expert team of sales and customer service specialists are at your disposal, assuring proficient support and appropriate problem solving resources. Parker provides personal sales and technical support through local branch sales representatives as well as regional industrial hose sales specialists, product sales managers and engineers. We care about your business and seek to develop a close relationship with you.



Global Hose

Same hose, same performance, same features, same availability everywhere



Our Global Hose Program consists of a worldwide network of Parker manufacturing facilities and distribution centers that assure consistent Parker quality while providing the flexibility to satisfy peaks of customer demand. The synergy among Industrial hose divisions around the world is one of our primary strength and an value-added support for our customers. Parker global hoses are suitable for OEMs and MRO channels, for diverse application across multiple industries and markets.

Silicone Hose

Silicone rubber hose is the ultimate choice for those extreme-temperature application.

Silicone has a number of chemical and mechanical and offers benefits for designers and users such as: improved performance over the long haul; flexibility while retaining their shape for installation in tight envelopes or around obstructions; low permeation to reduce or eliminate emissions, odors. Last but not least, it can be truly sterilized to ensure purity of products being manufactured or processed.

We offer solution either for cooling in industrial or transportation application (series 6722) and in the food, pharmaceutical and chemical industry (series Poliax Pharma)



E-Z Form Hose

Kink-free E-Z Form™ Hose Eliminates the Need for Pre-formed Hose



E-Z Form hose provides extreme flexibility for easy and quick installation of coolant, water and oil suction/return lines on mobile and industrial equipment. Available in multiple incremental sizes, E-Z Form hose reduces installation time, eliminates the need for costly made-to-order pre-formed hose and provides rapid delivery from stock without requiring dedicated inventory.

The offer has been extended to a High Temperature version, designed to resist cracking and deterioration from the extreme heat generated by engine compartments of buses, cranes, trucks and mobile/heavy-duty off-road equipment. It may also be used in non-SAE power steering return line applications.

Barrier Hose

Fuel, Vapor and Coolant/Heater Hoses

Parker offers a package of durable, flexible and lightweight hoses to handle virtually every enginerelated requirement, including fuel supply, vapor emission and cooling. These can be used in multiple market segments such as agriculture, off-roads, marine and transportation. They are designed to comply with the main international standards (ISO, SAE) and offer a superior low permeability rate for a higher protection of components and users. Compatible with biodiesel, diesel, ethanol and gasoline.



POLIAX range

Hoses manufactured with state-of-the-art compounds according to European standards to transfer chemicals, corrosive products and additives in mobile or fixed installations.

Extreme chemical transfer applications do not scare us; on the contrary it is part of our mission and a commitment. Our Poliax product line inhibits the contamination of the environment and guarantees the integrity of the media conveyed. The hose meets or exceeds EN 12115 specifications. We have multiple construction typologies to suits as many needs as possible and the range has been extended to new materials silicone and PTFE to withstand higher temperatures and aggressive fluid concentration.

The corrugated version offers additional flexibility and it is easy to handle in case of routing constraints or manual operations. Due to many different media combinations of acids, solvents, alkalis - and aninfinite variety of possible combinations - we recommend to utilize the STAMP approach and always consult our chemical compatibility chart to select the most appropriate hose. If there are any doubts or question, contact a Parker engineer.

For more information about the POLIAX range please refer to chapter G (Acid & Chemicals)



GAMBRINUS range

Rubber and PVC hose range specifically designed for food & beverage industry to efficiently and safely convey all foodstuff while preserving products features and consumer health.



For more information about the new GAMBRINUS range please refer to pages I6 - I11

The program includes specific alimentary hoses to withstand and preserve different typologies of foodstuff during the collecting, transport and processing phases. Produced on dedicated lines using stainless steel mandrels, our compounds are resistant to cleaning and sterilization to guarantee utmost hygienic standard. Each GAMBRINUS line is designed to fit specific products features. Specifically for tank lorries application we added the Gambrinus Anti Crash with a PET helix able to recover its shape

after accidental squeeze. The appropriate manufacturing and performance standards are certified by compliance with main European and International norms and specs such as EC 1935, BfR XXI, FDA. We also offer Stainless Steel Fittings capabilities – with permanently crimping ferrule or safety/bolt clamps - providing solutions to the most demanding applications in process plants. Our offering is supplemented with PVC hoses that offer an alternative to rubber where lighter weight is preferred.

Polyurethane lay flat hose

Rugged Constructions for diverse applications



Parker Snap-tite polyurethane lay flat hose provides compact, durable, lightweight water and multipurpose service in agricultural, construction, general industrial and mining applications. The hose offers superior value due to its robust design, rugged materials, compatibility with multiple media and versatility across many applications.

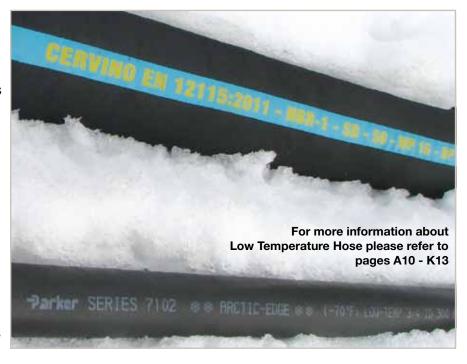
For more information about Polyurethane lay flat hose please refer to pages E8, I15, K16, K17

Traditional PVC lay flat hose incorporates spiral reinforcement sandwiched between stiff layers of PVC, whereas Parker Snap-tite hose features a strong circular woven reinforcement that allows the polyurethane to be extruded through-the-weave, fully encapsulating the textile reinforcement. The strong yet pliable hose wall resists abrasion, cracking, puncturing, and degradation from oil, ozone, petrochemicals, ultraviolet light and weathering. The design and materials promote strong adhesions between the hose components, resulting in exceptional performance and service life.

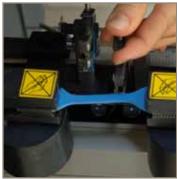
Low Temperature Hose

Small and large bore Oil & Fuel hose for outdoors application at low temperature conditions starting from -57°C

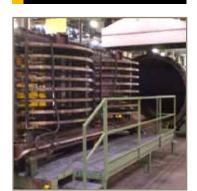
Parker has designed two hose lines dedicated to rigid environment conditions: Arctic Edge and Cervino. The special compound makes the hoses ideal for outdoors applications when low temperatures conditions are encountered, e.g. wind power generation, processing industry, off-shore, mining, agriculture and off highway mobile equipment. Cervino maintains its flexibility and tight ben radius even at -40°C while with Arctic Edge we do an extra mile and achieve an outstanding -57°C. Cervino is widely appreciated also as complete hose assembly with Parker series 48 and the large bore fittings range.







aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



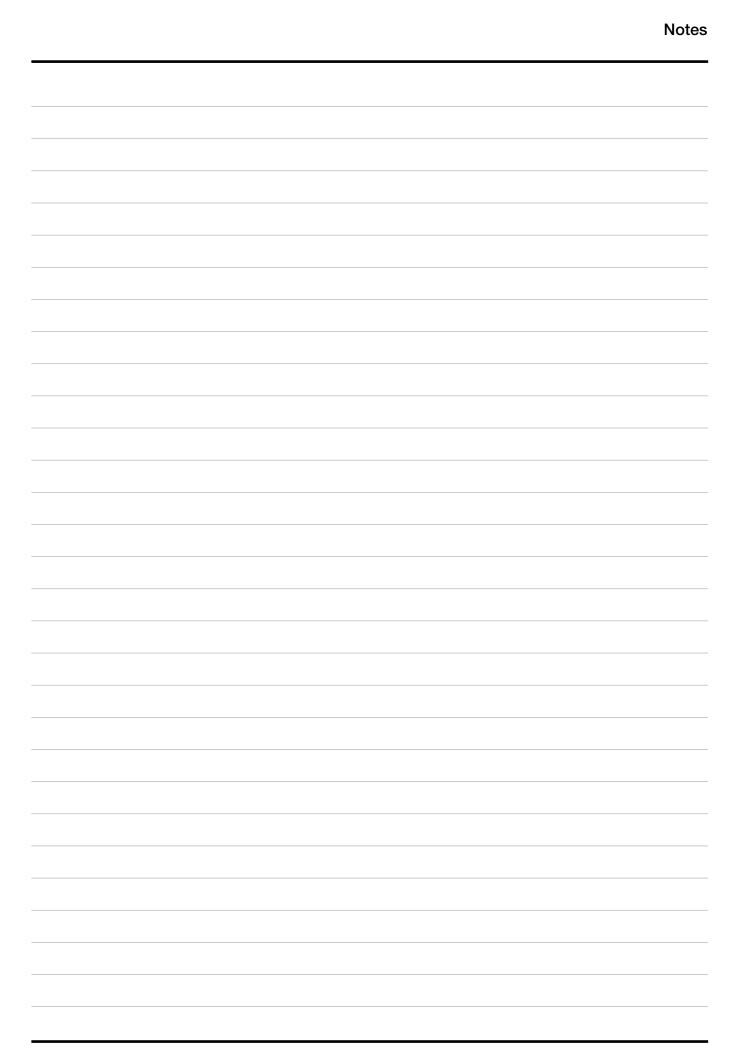


Industrial Hoses

Technical Handbook









Technical Handbook

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Technical Handbook Hose Selection Matrix

	Hose	ID Range	Temp. Range	Application	Tube	Reinforcement	Cover	WP (bar)	Design	Design Suction	Industry standard	Page
		(mm)		/OCT : ::::::::::::::::::::::::::::::::::	0	- 127 7	74001/0014		d			
	CARBOPRESS N/L 10	5 - 25	-25 / +80	tuel, oil, petrol aromatic < 50%	Y N	textile	NBH/EPDM	01	n (A4
	CARBOPRESS N/L 20	6 - 25	-25 / +80	tuel, oil, petrol aromatic < 50%	HAN !	textile	NBR/EPUM	25	n (A4
	CARBURII E 10	19 - 150	-30 / +80	tuel, oil, petrol aromatic < 50%	Y N N	textile	NBH/SBH	2	n	yes		Ap
	OILPLUS 30	25 - 100	-35 / +100	fuel, oil, petrol aromatic < 50%	WBH :	textile	NBR/PVC	සි :	თ .	yes	i	A6
	CARBOCORD EN 12115	19 - 100	-25 / +80	fuel, oil, petrol aromatic < 50%	NBR	textile + copper wires	NBR/SBR	16	4		EN 12115	A7
	CHEMIOEL EN 12115	19 - 100	-25 / +80	tuel, oil, petrol aromatic < 50%	NBR	textile + copper wires	NBR/SBR	9	4	yes	EN 12115	A10
Oil	CHEMIOEL EN 12115 OND	19 - 100	-25 / +80	fuel, oil, petrol aromatic < 50%	NBR	textile + copper wires	NBR/SBR	9	4	yes	EN 12115	A9
&	115	50 - 100	-40 / +80	fuel, oil, petrol aromatic < 50%	NBR	textile + copper wires	NBR/SBR	16	4	yes	EN 12115	A10
Fu	LH w.	12.7 - 25.4	-40 / +150	petrobased oil suc./ret. line, power steering	OPE	textile	HNBR	우	4	yes		A11
ıel	RAGUSA 4	50 - 100	-25 / +80	fuel, oil, petrol aromatic < 50%	NBR	textile + copper wires	NBR/SBR	4	4	yes		A12
	GASTRUCK EN 1762 D-M	16 - 50	-30 / +70	LPG/CNG load tankers	NBR	textile + SS wires	NBR/PVC	22	4		EN 1762	A13
	ROBUR GPL	8 - 51	-30 / +70	LPG/CNG load & unload tankers	NBR	steel wire	SBR/CR	25	10	yes		A14
	JETCORD B ISO 1825	25 - 100	-40 / +70		NBR	textile + copper wires	8	20	4	,	EN ISO 1825 Type B	A15
	JETCORD C ISO 1825	25 - 100		aircraft refuelling	NBB	textile	E	2	. 4		EN ISO 1825 Type C	A16
	ETCOBD FISO 1825	25 - 100		aircraft refuelling	NBB	dityat	e e	2	4	VDV	FN ISO 1825 Type F	A17
	JETCORD FISO 1825	25 - 100		aircraft refuelling	N S	textile		2 8	4	y o	FN ISO 1825 Type F	A18
	BADIOB 10	7 - 15	-30 / +100	Cooling line exetem	MU	textile	FPDM	9 6	- cr	2		B4
	ر در ا	197-109	-45/+125	bich flexible hose for coolant line system	1 U	textile	EP CM	<u> </u>	> <	00/1	SAE 120B2 - D1	i d
	(allo	10 - 50	-40 / +125	Cooling line evetem	N C G	toxtilo	ED M	o (ר כי	5	ON 73411	8 8
	SEDIES 6777	5 a	547.177	bootor and cooling line autom		toxtilo) L) c		V 2000 - 100	2 2
A	AIBBBAKE DIN 74240	0 0	1/1+/+0-	Heatel and cooling in a system		toxtile	SICIONAL	; ç	> <		CAL 5 2010 Class A	ءُ وَ
uto	<	0 0 10	76 / 1700	Diedaling system		extile extile	אַל בּ	2 4	1 <		0104710	8 6
om		9.0 - 12.7	46 / +100	breaking system	F 5	extille	HUM G	O 1	4 r		SAE J 1402-A	20 20
ot	385 SAE J 30R/	4.8 - 12.7	-40/+125	car & motorbike tuel system	Y I	textile	5 !	2.4/5.2	۵۱		SAE J 30 K/	2 2
ive	IBSE	4 -10	_	car & motorbike tuel system	NBK NBK	textile	NBR/EPDM	9	n			B11
&	TBE	3 - 7.5		car & motorbike fuel system	NBR	textile		9	က			B12
Во	CARBOBLUE N/L 10	16 -25		nox reducing system	EPDM	textile	EPDM	9	က			B13
at	CARBOBLUE N/L 20	6 -25	-40 / +100	nox reducing system	EPDM	textile	EPDM	50	က			B13
	WAVEMASTER™	6.3 - 16	-29 / +100	marine barrier fuel hose	NYLON	textile	NBR/PVC		4		• • •	B14
	SM TR 311	19 - 127	-20 / +80	coolant line	NBR	textile	NBR/CR		> 3.5	yes	EN ISO 7840 A1, CE	B15
	-7	4.8 - 19.1	-40 / +125	low permeation fuel hose	NBR/THV	textile	OPE		Ŋ		SAE J 30R7 / J 30R14T2	B16
	SUPER-FLEX® FL	4.7 - 19.1	-30 / +125	low permeation fuel hose	NBR/barrier	textile	OPE		2		SAE J 30R7 / J 30R14T2	B17
	MINIERA 10	25 - 50	-30 / +80	compressed air, non aggressive liquids	SBR	textile	SBR		ო			C4
	MINIERA 20 MSHA	19 - 100		compressed air, non aggressive liquids	SBR/NBR	textile	8	50	ო		MSHA	C2
Α	MINIERA 40	25 - 51	-40 / +100	mine & querries for long lasting service	NBR	steel wire	SBR/CR	40	4			90
ir	AIRTEMP 220	51 - 80	-40 / +220	hot air for compressors and pneumatic sys.	EPR	textile	EPDM	9	က			C7
	MASKPRESS EN 14594 Class B	9.2	-30 / +80	breathing system	NBR	textile	S	9	10		EN 14594 Class B	89
	DIVER 100 EN 250	6.3 - 8	-30 / +80	breathing system	EPDM	textile	EPDM	32	4		EN 250	60
	AUTOGENE EN ISO 3821 NR/L - NB/L 20	6.3 - 10	-25 / +80	welding process	EPDM/SBR	textile	EPDM	20	က		EN ISO 3821	4
	BIPRESS EN ISO 3821 B-R/L 20	6.3 - 9	-25 / +80	welding process	EPDM/SBR	textile	EPDM	50	က		EN ISO 3821	22
Ga	INERPRESS EN ISO 3821 N/L 20	6.3 - 10	-25 / +80	inert gas delivery	EPDM	textile	EPDM	20	က		EN ISO 3821	9
ıs	PROPANPRESS EN ISO 3821 NA/L 20	6.3 - 10	-30 / +70	propan gas delivery	NBR/NR	textile	EPDM	20	က		EN ISO 3821	D2
	CARBO G NB/R 10	∞	-20 / +90	household applicances	NBR	textile	EPDM	우	ო		UNI CIG 7140	8
	CARBO G NW/L 10	13	-20 / +90	household applicances	NBR	textile	EPDM	9	က		UNI CIG 7140	80
	FUCINO 10	25 - 100	-30 / +80	water, non aggressive liquids	SBR	textile	SBR	9	ო			E4
	FUCINO 20	50 - 120	-30 / +80	water, non aggressive liquids	SBR	textile	SBR	20	က			E4
1	PRESCORD N/R - 10	8 - 25	-30 / +80	water, non aggressive liquids	SBR	textile	SBR/EPDM	10	က			22
Wa	IDRO 10	25 - 75	-30 / +80	water, non aggressive liquids	SBR	textile	SBR	10	က			9 <u></u>
ter		19 - 203	-30 / +80	water, non aggressive liquids	SBR	textile	SBR	9	ო	yes		E7
	PU HOSE	51 - 152	-40 / +80	irrigation and water transfert	PO	textile	<u>P</u>	20	N			88
	APERFLAT MB	25 - 200		water, non aggressive liquids	PVC	textile	PVC	ω	က			6
	MULTIREX	19 - 150	-10 / +60	water, non aggressive liquids	PVC	PVC wire	PVC	7	က	yes		E10



• • ISO 7840, ABYC, CARB, CE, EPA, NIMMA, SAE J1527 A1-15, USCG A1 • •

ndard Page	EA_F5		2 [<i>F/</i>	Φ.		rpe 1/A F10	+	Q-				200	cage G9	cage G10		오	1 He	≘ %	9	Н	M - DM 15	_)A -EC 17	+		A -EC 110	-	SA-B-C 113			4 i	ರ ಹ		X X	¥	K7	Ж Ж	о Э	X10	Z Z	X12	Σ Σ Σ	r		K15	X15	K16
Industry standard						MSHA	EN ISO 6134 Type 1/A	EN ISO 6134 Iype 2/A		EN 12115	EN 12115	EN 12115	EN 12115	Refer to the page	Refer to the page	EN ISO 3861					FDA - BfR	**EN 12115 - FDA - DM	* BfR - DM -FDA -EC	* BfR - DM -FDA -EC	FDA - BfR - DM - EC	* BITH - DIMI - FDA - EC	* BfR - DM -FDA -EC	FC 90/128 CLAS	EC 90/128 CLASS A-B-C	EC 1935:2004 CLASS A-B-C	WRAS - DWI - NSF 61		EC 90/128											MSHA approved				
Suction											yes	yes	yes	yes	yes			yes		Ves	,	yes		yes	yes		yes	}	yes	yes		yes	yes	3							S S			yes				
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Cover	FPDM			EPUM	EPUM/SBR	CPE	EPDM	EPDM	CHLOROPPENE	EPDM	EPDM	EPDM	EPDM	EPDM	SILICONE	SBR/NBR	SBR	SBR	NR/SBB	SBR/NBR	EPDM	EPDM	NBR/PVC	NBR/PVC	NBR	EPDM	EPUM NB/SBB	DVG	PVC .		PO	PVC		EPDM	EPDM	EPDM	EPDM	EPDM	EPDM	EPUM	NB/Q/Q	NBB/PVC		8	PVC	PVC	PVC	PO
Reinforcement	textile	taxtila	elitrict	textile	textile	textile	textile	textile	aramid plies	textile + copper wires	textile + copper wires	textile + copper wires	textile + copper wires	textile + copper wires	textile + copper wires	textile	textile + copper wires	textile	steel wire	textile + copper wires	textile	textile + copper wires	textile	textile	textile	textile	textile	textile	steel wire	PVC wire	textile	PVC wire	Steel Wire	textile	textile	textile	textile	textile	textile	textile	lexille textile	textile	textile + copper wires	textile	textile	textile	textile	textile + copper wires
Tube	FPDM	i all		EPDM	EPUM	EPM	EPM	EPUM	NYLON	EPM	EPM	UHMWPE	UHMWPE	PFTE	SILICONE	BR/NR	BR/NR	BR/NR	NR/SBB	CERAMIC	EPDM	UHMWPE	NBR	NBR	¥ ;	FPDM	FPOM	DVG.	PVC OV	PVC	PU	PVC	SANIOPRENE	EPDM	EPDM	EPDM	EPDM	EPDM	EPDM	EPUM	5 8	N N	NBN NBN	NBR	PVC	PVC	PVC	P
np. Application	+100 cooling line system			_		_		_		+100 chemical resistance table		+100 chemical resistance table	+100 chemical resistance table	+150 chemical resistance table	+200 chemical resistance table	+70 wet and dry sand and cement		+70 wet and dry sand and cement				-20 / +100 food & beverage					+120 wine and soft drinks food & beverage						+140 suction equipment								+120 militarimose	_		_	+60 agricultural spray		+60 agricultural spray	+80 multipurpose
Temp. Range (°⊖)	-40 / +100	-40 / +100	9 9	-40 / +100	-40 / +120	-35 / +140	-40 / +164	-40 / +210	-18 / +93	-35 / +100	-35 / +100	-20 / +100	-20 / +100	-40 / +150	-60 / +200	-30 / +/0	-30 / +70	-30 / +70	-40 / +70	-30 / +70	-20 / +100	-20/	-30 / +80	-30 / +80	-40 / +80	-40 / +120	02.1+/04-	09+ / 02-	-10 / +60	-25 / +60	-40 / +80	-15 / +60	-40 / +140 -25 / ±85	-40 / +100	-40 / +100	-40 / +100	-40 / +120	-40 / +120	-40 / +120	-40 / +120	-34 / +120	-35 / +100	-57 / +100	-40 / +100	-15 / +60	-15 / +60	-15 / +60	-40 / +80
Range (mm)	10 - 100	15 - 65	2 5	09 - 21	10 - 85	9.5 - 25	10 - 51	13 - 51	6.4 - 12.7	19 - 100	19 - 100	19 - 100	19 - 100	13 - 75	13 - 51	19 - 100	50 - 100	50 - 125	51 - 125	25 - 200	10 - 25	19 - 100	19 - 102	19 - 102	38 - 76	19 - 63.5	79 - 102	6 - 50	12 - 150	25 - 120	38 - 152	20 - 250	38 - 102	5 - 38	6.5 - 38	6.5 - 25	10 - 50	10 - 50	6 - 100	13 - 25	12.1 - 10 R - 05	6-25	6.3 - 38	6.5 - 19	8 - 19	8 - 13	8 - 13	38 - 51
Hose	BADIOB 3			THEKMIOTKENN TO						POLIAX D EN 12115	POLIAX D SM EN 12115		POLIAX UPE CON SM OND EN 12115	POLIAX F EN 12115	POLIAX PHARMA	LIBECCIO EN ISO 3861		atel	_	CERGOM	DRINKPRESS WB/L 10	GAMBRINUS UPE SM EN 12115			GAMBRINUS ANTICRUSH		GAMBRINOS RED 10 SM GAMBRINI S BI ACK SM 10		APERSPIR	ENOREX	TE POTABLE WATER PU HOSE	ASPIREX	ASPIREX 140°	GST® II BLACK 15	GST® II RED 15	GST® II BLACK 20	PYTHON N/L 20	PYTHON NV/L 20			E-Z FORM ···· MP				APERFRUT 20	APERFRUT 40	APERFRUT 80	TE AS ANTISTATIC PU HOSE

-Parker

Rubber Hose Construction



Tube

It is the innermost rubber or plastic element of the hose. Must be resistant to the materials it is intended to convey. The characteristics of the rubber or plastic compound and the thickness of the tube depend on the service in which the hose will be used.

Reinforcement

Can be textile, plastic or metal, alone or in combination, built into the body of the hose to withstand internal pressures, external forces or combination

Cover

It is the outer element and can be made of rubber, plastic or textile materials. The function of the cover is to protect the hose from damage and environment.





Long Length (LL) Production method:

Seamless extruded hoses without or on flexible mandrel and eventually white lead vulcanization with synthetic textile yarn reinforcement for standard production up to 100 m and internal diameter up to I.D. 35 mm.



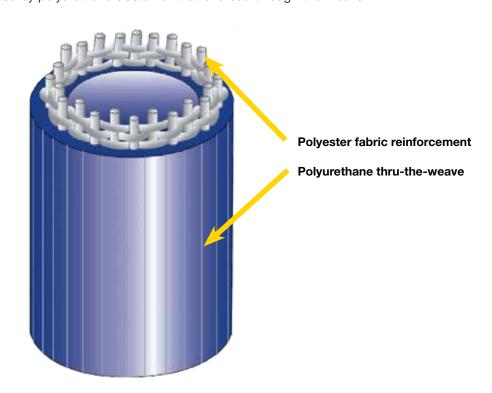
Mandrel Made (MM) Production method:

Hose produced on a rigid mandrel with a reinforcement of textile fabrics or steel braids, with or without steel wire helix, for standard production length up to 40 m and internal diameter range from I.D. 19 mm to I.D. 200 mm.



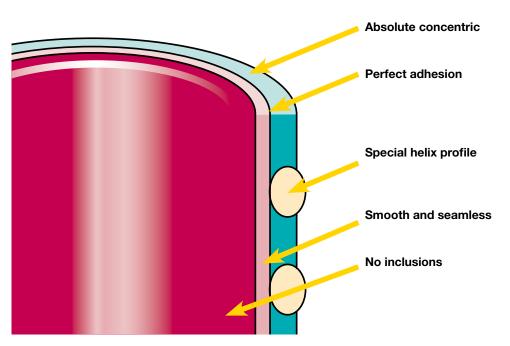
PVC-PU Hose Construction

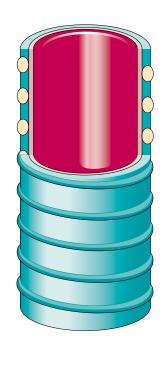
PU Lay Flat Hose
The hose is manufactured of circular woven polyester fabric completely encapsulated by polyurethane elastomer that is forced through-the-weave



PVC-PU CONSTRUCTION

Flexible hose having a rigid PVC spiral or a steel wire reinforcement spiral embedded in a PVC wall.







Hose Part Number Description

IH35.... → PVC or PVC-PU Hose

 IH_{30} \rightarrow Long Length Rubber Hose

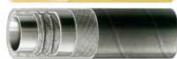
IH<mark>36</mark>.... → Mandrel made Rubber Hose

IH42.... → Mandrel made Rubber Hose

IH<mark>7</mark>.... → Global Hose Series









Example

 $IH_{35}^{562019/50} \rightarrow PVC \text{ or PVC-PU Hose}$

IH35562019/50 → PVC or PVC-PU Hose, length 50 m

IH35562019/<mark>0 → PVC or PVC-PU Hose, length: variable</mark>

Lay Flat PU Hose

IR Irrigation Hose

TS..... Slurry Hose

TE.....PW Potable Water Hose

TE.....AS Antistatic version



Hose to be ordered in coils.



Conversion Chart

	Unit	Base Unit	Conversion Unit	Factor
	1 inch	in	mm	25.4
Laureth	1 milllimetre	mm	in	0.03934
Length	1 foot	ft	m	0.3048
	1 metre	m	ft	3.28084
	1 square-inch	sq in	cm²	6.4516
Area	1 square-centimetre	cm²	sq in	0.1550
	1 gallon (UK)	gal	I	4.54596
	1 litre	I	gal (UK)	0.219976
Volume	1 gallon (US)	gal	I	3.78533
	1 litre	I	gal (US)	0.264177
\M/a:abt	1 pound	lb	kg	0.453592
Weight	1 kilogramme	kg	lb	2.204622
	1 pound foot	lb • ft	kg • m	1.488164
	1 newton metre	kg • m	lb • ft	0.671969
Torque	1 pound per square inch	psi	bar	0.06895
	1 bar	bar	psi	14.5035
	1 pound per square inch	psi	MPa	0.006895
	1 mega pascal	MPa	psi	145.035
	1 kilo pascal	kPa	bar	0.01
Pressure	1 bar	bar	kPa	100
	1 mega pascal	MPa	bar	10
	1 bar	bar	MPa	0.1
	1 foot per second	ft/s	m/s	0.3048
Velocity	1 metre per second	m/s	ft/s	3.28084
	1 gallon per minute (UK)	gal / min.	I / min.	4.54596
	1 litre per minute	I / min.	gal / min. (UK)	0.219976
Flow rate	1 gallon per minute (US)	gal / min.	I / min.	3.78533
	1 litre per minute	I / min.	gal / min. (US)	0.264178
Tamananahiri	Fahrenheit degree	°F	°C	5/9 • (°F-32)
Temperature	Celsius degree	°C	°F	°C • (9 /5) +32

TH9

(UK) Unit of United Kingdom (US) Unit of USA

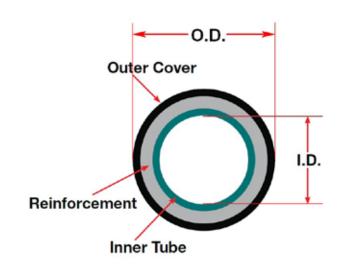


Before you spec it, STAMP it.



SIZE

The hose Internal and External Diameter must be sized accurately to obtain the proper values to couple the hose with reusable or permanent fittings. The measuring system of the inside and outside diameter of the hose is universally regulated by ISO 4671 while the hose tolerances are listed in the ISO 1307 if not superseded by particular and specific other norms (i.e. EN 12115).



TEMPERATURE

When specifying hose, there are two temperatures you need to identify. One is the **ambient temperature** which is the temperature that exists outside the hose in the application where it is being used; the other is the **media temperature** which is the temperature of the media conveyed through the hose. Very high or low ambient temperatures can have adverse affects on the hose cover and reinforcement materials, resulting in reduced service life. Media temperatures can have a much greater impact on hose life. For example, rubber loses flexibility if operated at high temperatures for extended periods.







APPLICATION

Before selecting a hose, it is important to consider how the hose will be used. Answering the following questions may help:

- Which is the media conveyed?
- What type of equipments are involved?
- Is it a static or dynamic application?
- Are there any routing constrains?
- Do you need particular cover features?
- Should the hose comply with any industry or government standards?
- Which are the electrical hose conductivity/ resistance requirements?



Sometimes specific applications require hoses specific dimensions, features or performance characteristics. For example, applications where hoses will encounter rubbing or abrasive surfaces, would be best handled by our family of abrasion resistant hose. When application space is tight, bend radius is another important consideration. We offer hoses with increased flexibility and smaller outer diameters enabling faster, easier routing in small spaces, reducing both hose length and inventory requirements. Industry standards set specific requirements concerning construction type, size, tolerances, burst pressure, and media compatibility. You must select a hose that meets the legal requirements as well as the functional requirements of the application.

MEDIA

What will the hose convey? Some applications require the use of specialized oils or chemicals. The hose you order must be compatible with the medium being conveyed. Compatibility must cover the inner tube, the cover, hose fittings, and o-rings as well. Use the Oil and Fuel and Chemical Resistance Chart you find in this section to select the correct components of the hose that will be compatible with your system's media.



PRESSURE

Hose selection must be made so that the published maximum working pressure of the hose is equal to or greater than the maximum system pressure. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the hose.

Each Parker hose has a pressure rating which can be found on the HOSE SELECTION MATRIX. Burst pressure ratings are not an indication that the product can be used above the published maximum working pressure. It is for this reason that the burst pressure ratings have been removed from the hose charts within the catalog. However the burst pressure is indicated by the design factor of each hose type.





Standards

ABYC

WAVEMASTER™

BfR XXI cat. 2

DRINKPRESS WB/L 10

GAMBRINUS ANTICRUSH

GAMBRINUS BLACK SM 10

GAMBRINUS BLUE 10

GAMBRINUS BLUE 10 SM GAMBRINUS RED 10 GAMBRINUS RED 10 SM POLIAX PHARMA

CARB

WAVEMASTER™

CE

WAVEMASTER™ SM TR 311

DIN 73411

RADIOR DIN 6

DIN 74310

AIRBRAKE DIN 74310

DM 21/03/73

GAMBRINUS ANTICRUSH
GAMBRINUS BLACK SM 10
GAMBRINUS BLUE 10
GAMBRINUS BLUE 10 SM
GAMBRINUS RED 10
GAMBRINUS RED 10 SM
GAMBRINUS RED 10 SM
GAMBRINUS UPE SM EN 12115
POLIAX PHARMA

DM 220 26/04/93

GAMBRINUS UPE SM EN 12115

DWI

TE POTABLE WATER PU HOSE

EC 1935:2004

ENOREX
GAMBRINUS ANTICRUSH
GAMBRINUS BLACK SM 10
GAMBRINUS BLUE 10
GAMBRINUS BLUE 10 SM
GAMBRINUS RED 10

GAMBRINUS RED 10 SM

EC 90/128

APERSPIR
VINITRESS
ASPIREX PU/ANC

EN 12115

CARBOCORD EN 12115
CERVINO EN 12115
CHEMIOEL EN 12115
CHEMIOEL EN 12115
CHEMIOEL EN 12115
CHEMIOEL EN 12115
OND
GAMBRINUS UPE SM EN 12115
POLIAX D EN 12115
POLIAX D SM EN 12115
POLIAX UPE CON SM EN 12115
POLIAX UPE CON SM OND EN 12115

EN 1762

GASTRUCK EN 1762 D-M

EN 14594

MASKPRESS EN 14594 Class B

EN 250

DIVER 100 EN 250

EN ISO 1825

JETCORD B ISO 1825 JETCORD C ISO 1825 JETCORD E ISO 1825 JETCORD F ISO 1825

EN ISO 3821

AUTOGENE EN ISO 3821 NR/L - NB/L 20 BIPRESS EN ISO 3821 B-R/L 20 INERPRESS EN ISO 3821 N/L 20 PROPANPRESS EN ISO 3821 NA/L 20

EN ISO 3861

LIBECCIO EN ISO 3861

EN ISO 6134

VAPORE 164 EN ISO 6134 Type 1/A VIGOR 2 EN ISO 6134 Type 2/A

EN ISO 7840

SM TR 311 WAVEMASTER™

EPA

 $\mathsf{WAVEMASTER}^{\mathsf{TM}}$

European Pharmacopoeia

POLIAX PHARMA

MSHA

JIFFY™ MINIERA 20 MSHA CALORE PLUS

FDA

DRINKPRESS WB/L 10
GAMBRINUS ANTICRUSH
GAMBRINUS BLACK SM 10
GAMBRINUS BLUE 10
GAMBRINUS BLUE 10 SM
GAMBRINUS RED 10
GAMBRINUS RED 10
GAMBRINUS RED 10 SM
GAMBRINUS UPE SM EN 12115
ASPIREX PU/ANC
POLIAX F
POLIAX PHARMA

NMMA

WAVEMASTER™

NSF 61

TE POTABLE WATER PU HOSE

SAE J 30 R7

CARBOPRESS SAE J 30 R7
SUPER-FLEX® FL
SUPER-FLEX® FL-7

SAE J 1402-A

AIRBRAKE SAE J 1402-A

SAE J 20 R2 - D1

E-Z FORM™ GS

SAE J 20 R3 Class A

SERIES 6722

SAE J 30 R14T2

SUPER-FLEX® FL-7

SAE J1527 A1-15

WAVEMASTER™

UNI CIG 7140

CARBO G NB/R 10 CARBO G NW/L 10

USCG A1

 $\mathsf{WAVEMASTER}^{\mathsf{TM}}$

USP XXXII class - VI requirements

POLIAX PHARMA
POLIAX F



TH12 Catalogue 4401/UK

Guidelines to the Use and Cleaning of Food and Pharma Rubber Hose

The hoses offered in our catalogue are manufactured in accordance with the best production practices, observing the international norms and specifications regulating this sector to guarantee safety, performance, quality and hygiene.

Transport, storage, handling, usage and media may contaminate the hose and affect its performance.

Therefore Parker recommends cleaning and sanitizing the hose prior to and after each use to maintain hose efficiency and prevent harmful contamination.

However our suggestions are superseded by specific local government regulations.

Before the use of Food hose:

- Flush with drinking water at 20 °C for max 10 min
- · Cleaning process with detergents/chemicals
- Rinse with drinking water at 20 °C for max 10 min
- Sterilization at 110 °C for max 30 min
- Rinse with drinking water at 20 °C for max 10 min
- Check to determine that all residuals have been eliminated

The frequency depends on the type of food and liquid conveyed and environment condition.

The frequency and time of exposure to detergents/disinfectants may compromise the service life of the hose. Thus we recommend regular inspection of the hose to evaluate its physical conditions. PTFE hoses can be cleaned with all the following media and conditions.

Media	Compound	Concentration	Temperature
Hot Water	NBR, UPE, EPDM, NR/SBR	-	Up to 95°C
HOL WATER	SILICONE		Up to 90°C
	NBR, EPDM, NR/SBR	-	Up to 110°C – max 30 min
Steam	UPE		Up to 130°C – max 30 min
	SILICONE		Up to 135°C – max 18 min
	NBR, UPE, EPDM, NR/SBR	2%	Up to 85°C
Caustic Soda	NDN, UPE, EPDIVI, NN/3DN	5%	Up to 25°C
	SILICONE	2%	Up to 65°C
	SILICONE	4%	Up to 25°C
	NBR, EPDM, SILICONE	0,1%	Up to 65°C
Nitric Acid / Phos-	INDN, EPDIVI, SILICOINE	2%	Up to 25°C
phoric Acid	UPE	0,1%	Up to 85°C
	OFL	3%	Up to 25°C
Chlorine Acetic Acid	NBR, EPDM, SILICONE	1%	Up to 25°C
Official & Acetic Acid	UPE		Up to 40°C
Peracetic Acid	NBR, EPDM, SILICONE	1%	Up to 25°C
r eracetic Acid	UPE		Up to 40°C

For other cleaning media and support pls contact Parker



Oil and Fuel Compatibility

	Max Ambient		F		Fuel types					
Hose series	temperature °C	Fuel	Diesel	LPG-CNG	B10	B20	B100	E10	E100	
ARCTIC-EDGE	100	G up to 70°	G up to 100°	<u>•</u>	G up to 70°	G up to 70°	<u> </u>	G up to 70°	G up to 70°	
CARBOCORD EN 12115	100	G up to 70°	E up to 70°	<u>•</u>	G up to 70°	G up to 70°	<u>•</u>	G up to 70°	<u> </u>	
CARBOPRESS N/L	100	G up to 70°	E up to 70°	X	G up to 70°	G up to 70°	X	G up to 70°	<u> </u>	
CARBOPRESS SAE J 30 R7	125	E up to 70°	E up to 100°	G up to 70°	E up to 100°	E up to 70°	G up to 70°	up to 70°	E up to 70°	
CARBURITE 10	100	E up to 70°	E up to 70°	<u>•</u>	G up to 70°	G up to 70°	<u>•</u>	G up to 70°	<u> </u>	
CERVINO EN 12115	100	E up to 70°	E up to 70°	•	G up to 70°	G up to 70°	<u>•</u>	G up to 70°	G up to 70°	
CHEMIOEL EN 12115	100	E up to 70°	E up to 70°	<u>•</u>	G up to 70°	G up to 70°	<u>•</u>	G up to 70°	G up to 70°	
E-Z FORM™ HT	150	E up to 120°	E up to 120°	<u>•</u>	E up to 120°	E up to 120°	G up to 100°	G up to 70°	G up to 70°	
E-Z FORM™ MP	121	E up to 100°	E up to 100°	<u> </u>	E up to 100°	E up to 100°	<u> </u>	G up to 70°	G up to 70°	
GASTRUCK EN 1762 D-M	70	G up to 70°	•	E up to 70°	<u> </u>	<u>•</u>	<u>•</u>	G up to 70°	<u>©</u>	
JIFFY™	100	G up to 70°	E up to 100°	<u>•</u>	G up to 70°	G up to 70°	<u>•</u>	G up to 70°	G up to 70°	
OILPLUS 30	120	G up to 70°	E up to 100°	G up to 70°	E up to 100°	E up to 70°	E up to 70°	G up to 70°	E up to 70°	
OILPRESS N/L	120	G up to 70°	E up to 100°	G up to 70°	E up to 100°	E up to 70°	E up to 70°	G up to 70°	E up to 70°	
RAGUSA 4	100	G up to 70°	E up to 70°	X	G up to 70°	G up to 70°	<u>•</u>	G up to 70°	<u> </u>	
ROBUR GPL	70	G up to 70°	<u>•</u>	E up to 70°	<u>•</u>	<u>•</u>	<u>•</u>	<u>•</u>	<u> </u>	
SM TR 311	80	E up to 70°	E up to 70°	<u>•</u>	E up to 100°	G up to 100°	<u>•</u>	E up to 100°	<u> </u>	
SUPER-FLEX® FL	125	E up to 100°	E up to 100°	<u>•</u>	E up to 100°	E up to 100°	E up to 100°	E up to 100°	G up to 100°	
SUPER-FLEX® FL-7	125	E up to 100°	E up to 100°	<u>•</u>	E up to 100°	E up to 100°	G up to 100°	E up to 100°	G up to 100°	
TBE	90	E up to 70°	E up to 70°	<u>•</u>	G up to 70°	G up to 70°	X	E up to 70°	G up to 70°	
TBSE	100	E up to 70°	E up to 70°	G up to 70°	G up to 70°	G up to 70°	X	E up to 70°	G up to 70°	
WAVEMASTER™	100	E up to 70°	E up to 70°	<u>•</u>	E up to 70°	E up to 70°	up to 70°	up to 70°	G up to 70°	

Fuel max 50 % Aromatic (Aliphatic /Aromatic + MBTE)

Diesel Std mineral Diesel

LPG-CNG Liquefied petroleum gas or Compressed Natural gas

B10 Biodiesel 10 % in std diesel B20 Biodiesel 20 % in std diesel

B100 Biodiesel 100 %

E10 Ethanol Alchool 10 % in Fuel E100 Ethanol Alchool 100 % The indicate temperature is related to the Media and not to the ambient

E = ExcellentG = GoodO = ConditionalX = Unsatisfactory



TH14 Catalogue 4401/UK

Conductive Value Table

As for ISO 2883

R<10 ³	Conductive Compound
$10^3 < R < 10^6$	Antistatic Compound
R > 10 ⁶	Insulating Compound

Electrical Properties of Rubber Hose

Electrical Conductivity

Industrial hoses generally fall into

three categories:
conductive, nonconductive, or
somewhere in-between. Because of
its unique properties, it is possible
for rubber to be nonconductive at
low voltage and conductive at high
voltage. When using a hose in an application that has electrical resistance
requirements (low electrical resistance for conductive applications or
high electrical resistance for nonconductive applications), always select a
hose that is specifically designed to

meet the specific need. Since con-

ductivity or no conductivity is not a

electrical resistance ratings do not

exist for many hoses.

consideration for many applications,

Conductive & Antistatic Hose

Static electricity is generated by the flow of material (even some liquids) through a hose. As the material flows, molecules collide and generate friction, which creates minute amounts of electrical charge (excess electrons). The charge accumulates potential energy at the delivery end the hose (coupling/nozzle). The amount of charge increases with material volume and linear velocity, coarseness of the material, and length of the hose. If not properly grounded, the acumulated charge (potential energy) will seek its own ground. The charge will be attracted to external materials in proximity (such as a steel storage container); if not properly grounded, the electrons may arc (jump) to the external material, igniting volatile materials in the hose, or in proximity to the hose. Electrically conductive wires and conductive rubber components are used in hose to prevent static electricity build-up and discharge as a spark. It is essential that the user determine the need for static bonded hose based on (a) the intended use of the hose, (b) instructions from the company's safety division, (c) the insurer, and (d) the laws of the localities and states in which the hose will be used. Some types of hose include a helical or static wire(s). This wire can be used for electrical continuity provided that proper contact is made and maintained between it and the hose couplings.

Nonconductive Hose

Nonconductive hose constructions are those that resist the flow of electrical current. In some specific applications, especially around high voltage electrical lines, it is imperative for safety that the hose be nonconductive. Unless the hose is designed particularly to be nonconductive and is so branded, do not conclude that it is nonconductive. Many black rubber compounds are inherently and inadvertently conductive. Nonconductive hose is usually made to a qualifying standard that requires it to be tested to verify the desired electrical properties. The hose is frequently (but not necessarily) non-black in colour and clearly branded to indicate it is designed for nonconductive applications.

WARNING!

Unless a hose is described as, or specifically and clearly branded to be conducting or nonconducting, assume that the electrical properties are uncontrolled.



Properties of Basic Rubber Compounds

This table provides some information on the general properties of the most common rubber compounds. Most compounds used in the manufacture of rubber hose are made of different basic rubbers, each contributing to the physical properties of the finished product.

ASTM D 1418	Chemical Name	Properties
CR	Chloroprene	Excellent weathering and ozone resistance, flame retarding, abrasion resistance. Good resistance to compressed air and to oil.
CSM	Chloro-sulfonyl-polyethylene	Excellent resistance to ozone, weathering and acid, particularly of the coloured compounds. Resistant to petroleum based fluids.
EPDM	Terpolymer of ethylene-propylene-diene	Good resistance to heat, ageing and abrasion. Poor resistance to petroleum based fluids.
EPM	Copolymers of ethylene and propylene	Excellent resistance to heat, ageing, abrasion and ozone. Good resistance to many chemicals. Poor resistance to aromatics.
FKM	Fluorine rubber	Excellent resistance to a wide range of chemicals and to heat. Poor physical properties.
IIR	Isobutene-isoprene	Good resistance to chemicals, such as alcohols, ketones and esters.
NBR	Acrylonitrile-butadiene	Excellent oil resistance good aromatics and solvents resistance.
NR	Natural rubber	Good physical properties including abrasion and low temperature resistance. Poor resistance to petroleum based fluids.
SBR	Styrene-butadiene	Good physical properties with resistance to heat and abrasion. Poor resistance to petroleum based fluids.
NBR/PVC	Acrylonitrile-butadiene-vynil-chloride	Good resistance to oil and aromatics. Recommended as hose cover, when a good weathering, ozone and abrasion resistance is required.
UHMWPE	Ultra high molecular weight polyethylene	Excellent abrasion resistance and very low coefficient of friction. Excellent resistance to chemicals, oil and aromatic fuels. Biologically inert and suitable for foodstuffs delivery.
PTFE	Polytetrafluoroethylene	Excellent resistant against the majority of chemicals, also at high concentration. Superior resistance to heat. Very low friction. Great mechanical properties.
Silicone (VMQ)	Polysiloxane	Outstanding Heat and cold resistance. Resistance to oils, solvents and other chemicals. Electrical insulation.



Chemical Resistance Table

The following table is essentially based upon the most updated technical data available, on information from raw material suppliers, as well as some International Standards, e.g. ISO TR 7620, EN 12115, and other publications.

Due to the big variety and amount of different chemical products, the given ratings are only partly based on our own tests. Consequently, the chart is given as a guidance only, and it cannot be assumed as a guarantee, expressed or implied, for the suitability of a product for a specific application. This is due to the widespread range of parameters which are not under our direct control like temperature (internal and external) pressure (constant or peaks) frequency of service and working environment.

For the same reasons, it is impossible to give scientifically based indications concerning service life of hoses, and to determine a generally valid replacement date. This can be verified for instance with periodical hydrostatic tests and a visual check. When in doubt please contact our technical service.

Ratings are based on room temperature.

Parker FTHE will cooperate by supplying sampling for tests, and carrying out tests with special chemical products.

WARNING

The service life of rubber hoses is not endless. Consequently the user must periodically check the suitability of a rubber hose for the intended application, particularly in the presence of dangerous or polluting chemical products or when using the hose at elevated pressures and/or temperatures. Continuous use at the highest allowed pressures and temperatures dramatically reduces the service life of a rubber hose.

After use hose must be emptied out and washed down.

Many chemical products can cause severe injuries to people or damage to property, or risks of environmental pollution if the hose leaks or bursts.

Trade Name	Description	ASTM Codes
Butyl	Isobutylene-Isoprene	IIR
CPE	Chlorinated Polyethylene	CM
EPDM	Ethylene-Propylene-Diene	EPDM
Hypalon	Chlorosulfonated Polyethylene	CSM
Hytrel	Thermoplastic Polyester	TPC-ET
Natural	Natural Rubber	NR
Neoprene	Polychloropren	CR
Nitrile	Acrylonitrile	NBR
Nylon	Nylon Polymer	-
SBR	Styrene-Butadiene	SBR
Santoprene	Ethylene-Propylene-Diene	TPV
Teflon	Fluorocarbon Resin	PTFE
UHMW	Ultra-High Molecular Weight Polyethylene	-
Urethane	Urethane	AU
Viton	Floroelastomer	FKM
XLPE	Cross-Linked Polyethylene	XPE

* compounds not in catalogue. Ask Parker for right solution

KEY

E = Excellent

G = Good

C = Conditional

X = Unsatisfactory



			_		<u></u>	- =	ne	4) -				111	>	ne		111
Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
1 UNDECANOL	Е			Е		Е		Е				Е			G	Е
1,4-DIOXANE	G		G	Χ		Χ	Χ	Χ	Е	Χ		Е		Χ	Χ	Е
1-AMINO-2-PROPANOL	Е			С		G		G				Е			Х	
1-AMINOBUTANE	X		С	С		X	X	С		Χ		E		Χ	X	
1-AMINOPENTANE	G		Х	G		G	X	С				Е			X	
1-BROMO-2 METHYL PROPANE	X		~	X		X	X	X				E E			G G	
1-BROMO-3 METHYL BUTANE 1-BROMOBUTANE	X		Х	X		X		X				E			G	
1-CHLORO-2-METHYL PROPANE	X			X		X		X				E			G	
1-CHLORO-3-METHYL BUTANE	C		Х	X		X	Х	X	Е			E			E	
1-DECANOL	С		Λ.	E		C	Х	E	_			E			G	Е
1-HENDACONAL		Е														
2 (2AMINOETHYLAMINO) ETHANOL	Е			G		G		G								
2 (2ETHOXYETHOXY) ETHANOL	Е		G	G		С	С	G	Ε	G		Е		Χ	G	
2 (2ETHOXYETHOXY) ETHYL ACETATE	G		Χ	G		Χ	Χ	С		Χ		Е		Χ	G	
2,4-DI-SEC-PENTYLPHENOL		Е														
2-AMINOETHANOL	Е		G	G		G	G	G				Е		С	Χ	
2-CHLORO-1-HYDROXY-BENZENE	_	С		_								_			_	_
2-CHLOROPHENOL	G	G	X	С	Х	X	X	X	X	X	Х	E		X	E	G
2-CHLOROPROPANE	X		X	X		X	X	X	Χ	X		Е		X	E	Е
2-ETHOXYETHANOL 2-ETHOXYETHYL ACETATE	G G	Χ	G G	C X	Χ	C	C X	G X	G	X		E E		X	C X	
2-ETHYL (BUTYRALDEHYDE)	G	^	G	X	^	X	^	X	G	^		E		^	X	Е
2-ETHYL-1-HEXANOL	E		Е	E		Ē	Е	E		Е	Е	E		Х	E	E
2-ETHYLHEXANOIC ACID	C		_	G		С	_	C		_	_	E				_
2-ETHYLHEXYL ACETATE	E			E		X		X				E			Χ	
2-OCTANONE	G			X		Х		Х				E			Χ	
3-BROMOPROPENE	Χ			Χ		Χ	Χ	Χ				Е			G	
3-CHLORO-2-METHYL PROPANE		G														
3-CHLOROPROPENE	С		Χ	Χ		Χ	Χ	G		Ε		Ε			G	
4-HYDROXY-4-METHYL-2-PENTANONE	Е		Е	С	С	С	С	Χ	G	С		Е		Χ	Χ	
ACETALDEHYDE	Е		E	С	G		Х	Χ	Е	Χ	Е	Е	G	Х		Е
ACETAMIDE	0	_	E	0	_		G	-		_	-	_	E		E	_
ACETIC ACID, GLACIAL	G E	E E	G E	C E	E X	X B	X B	G	X E	C F	G B	E E	E E	X	X E	E E
ACETIC ACID 10 % ACETIC ACID 30 %			E		Λ.	В	G	Х		Г	В		E		G	Е
ACETIC ACID 50 %	Е	E	E	Е	С	Х	C	С	С	Х		G	E	Х	G	G
ACETIC ANHYDRIDE	G	E	G	E	С	C	G	Х	Х	X	G	E	G	X	X	E
ACETIC OXIDE	G	_	В	E	O	X	G			^	В	E	а	G	X	E
ACETONE	E	G	E	X	С	С	Χ	Χ	Е	С	E	E	Е	X	Χ	E
ACETONE CYANOHYDRIN	Е			С		С	В	Χ			Е	Е	G	Χ	Χ	Е
ACETONITRILE	Е		Е	G		В	Е	С			Ε	Ε				
ACETOPHENONE	G		Е	Χ		Χ	Χ	Χ		Χ	Ε	F	Χ	Χ	Χ	Χ
ACETYL ACETONE	Ε	G	Е	Χ		Χ	Χ	Χ		Χ	Ε	Ε	Е	Χ	Χ	Е
ACETYL CHLORIDE	Χ	Е	С		Χ		Χ	Χ	Χ	Χ	С	Е	G	Χ	G	G
ACETYL OXIDE	E		G	Χ	_	С		Χ			G	E	E		Χ	E
ACETYLENE	E	G	E	С	G	G	E	E	Е	С	Е	Е	Е	G	E	Е
ACETYLENE DICHLORIDE	C		C	X		X	X	X				E			G	
ACETYLENE TETRACHLORIDE ACROLEIN	X		X E	X G		X G	X	X		С		E E	Х	Χ	Е	Е
ACRYLIC ACID	C	Е	C	G		G	C	C		U		Ē	^	^		
ACRYLONITRILE	Х	E	Х	С		С			Е	С		Е	С	Χ		С
ADIPIC ACID	^	_	E	J		E	Е	Е	_	J		E	J	E	Е	J
AIR +149 °C (+300 °F)	G		G	G		X	G	G		Χ	Е		Χ	С	_	
ALK-TRI	X			X		X		X				Е			Е	Е
ALLYL ALCOHOL	Е		Е	Е		Е	Е	Е				Е	Е		G	Е
ALLYL BROMIDE	Χ			Χ		Χ						Е	G		G	G
ALLYL CHLORIDE		G		Χ		Χ		G		G		Е	G		G	G
ALUM	Е	Е	Е	Е		Е	Е	Е	G			Е	Е		Е	Е
ALUMINUM ACETATE (AQ)	G	Е	Е			Е	G	G		Χ		Е	Е	Χ	Χ	Е
ALUMINUM CHLORIDE (AQ) 40 %	G	С				E	E	G	X	_		_	E			E
ALUMINUM FLUORIDE	E		Е	E		E	Е	Е	G	Е		E	E	С	E	Е
ALUMINUM FORMATE	G		_	X		X	_	_	0	0		E	E	_	Е	
ALUMINUM HYDROXIDE	E	_	E	G E		E E	E E	E E	G	G E		E E	E E	G C	_	Е
ALUMINUM NITRATE (AQ)		E	E E				E			С		С	В	U	E E	
ALUMINIUM PHOSPATE			E				E						В		E	

 $E = excellent; \ G = good; \ C = conditional; \ X = unsatisfactory$



TH18 Catalogue 4401/UK

 $[\]ensuremath{^*}$ compounds not in catalogue. Ask Parker for right solution

Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
ALUMINUM SULFATE (AQ)	E	Е	E	E	G	E	Z E	E	E	G	E	E	E	G	E	E
ALUMS-NH3-CR-K	E	-	E	E	G	E	E	E	С	E		E	E	G		E
AMINES – MIXED	G		G	X	G	G	_	X	O	G		_	_	X	Х	
AMINO XYLENE	G		C	,,	<u> </u>	<u> </u>		, ,		Ŭ.				, ,	C	
AMINOBENZENE		G							С							
AMINODIMETHYLBENZENE	G	С										Е				
AMINOETHANE	G		Е	С		С	Χ	Χ		С		Е		Χ	Χ	
AMMONIA LIQUID			Е				Е						G			
AMMONIUM ANHYDROUS			E				E						G			
AMMONIUM CARBONATE (AQ)	Е		Е	G		Е	Е	G	G	E		Е		Е	Е	
AMMONIUM CHLORIDE (AQ)	Е	G	E	G	Е	E	E	G		E	E	Е	Е	G	Е	Е
AMMONIUM HYDROXIDE	Е	Е	Е	Е								Е	Е	Χ	Е	Е
AMMONIUM NITRATE (AQ)	Е	G	E	Е	G	Е	E	E	G	E		E	E	Е	E	E
AMMONIUM PHOSPHATE, DIBASIC	Е	Е	E	E		E	E	Е	Е	Е		E	E		Е	E
AMMONIUM SULPHATE (AQ)	E	Е	E	E	G	E	E	E	G	G		E	Е	Е	Е	E
AMMONIUM SULPHITE	E		E	E		E	E	E		Е		E			E	E
AMMONIUM THIOSULPHATE	E		Е	E	0	E	E	E	0	\ <u>/</u>	V	E		V	Е	Е
AMYL ACETONE	G		Е	X	С	X	Χ	Х	G	Х	Х	Е	Е	Х	V	Е
AMYL ALCOHOL	G	Г		X E	Е	X E		_	_	_		E E		V	X E	E
AMYL ALCOHOL	E	Е	Е		E		Е	G	Е	Е	Е		Е	Х	E	Е
AMYL AMINE AMYL BROMIDE	G			С		С		С				E E			G	
AMYL CHLORIDE	Х	С	Х	Χ		Х	Х		Е	Χ		E	Е	С	E	G
AMYL ETHER	^	C	^	C		^	^	С		^		E		C	드	G
ANETHOL	Х	Х		X		Х		C	G			E	G		G	G
ANILINE	E	G	G	X	Χ	X	Х	Х	С	X		E	E	Х	С	E
ANILINE DYES	G	G	G	G	^	G	Ĉ	X	X	G		E	E	X	С	E
ANILINE OIL	G	G	С	a		a	U			a		E	_	X	С	<u> </u>
ANIMAL FATS	С	u	E	С	G		G	Е	Е	Х	Е	E	Е	C	E	Е
ANTIMONY CHLORIDES	E		E	G	J		X	G	_	/ (_	E	_	Ü	E	E
AQUA REGIA	X		G	X		Х	X	X		Χ		E	Х	Х	E	X
ARGON	G		E	Χ	Е	Χ	Х	Е	Е	Χ		E	E	Е	E	Е
AROMATIC HYDROCARBONS	-												С		E	
ARSENIC ACID	Е	Е	Е	Е		G	Е	Е	G	Е		G	Е	С	Е	Е
ASPHALT	Χ		Χ	Χ	С	Χ	Χ	Χ	Е	Χ	Е	Е	Χ	G	Е	Χ
ASTM FUEL A	Χ	Е	Χ	G	Е	Χ	G	Е	Е	Χ	Χ	Е	G	G	Е	G
ASTM FUEL B	Χ	G	Χ	Χ	Е	Χ	Χ	Χ	Е	Χ	Χ	Е	G	G	Е	G
ASTM FUEL C	Χ	С	Χ	Χ	Е	Χ	Χ		Е	Χ	Χ	Е	G			G
ASTM OIL NO. 2	Χ	Е	Χ	Χ	Ε	Χ	G	Ε	Е	Χ	Χ	Ε	Ε	G	Е	Ε
ASTM OIL NO. 3	Χ		Χ	G	Е	Χ	С	Е	Е	Χ	Χ	Е	Е	Е	Е	Е
ASTM OIL NO. 4	Χ		Χ	Χ		Χ	Χ	G		Χ			Е	Χ	Е	Е
ASTM OIL NO. 1	Χ	Е	Χ	G	Е	Χ	Е	Е	Е	Χ	Χ	Е	Е	Е	Е	Е
AUTOMATIC TRANSMISSION FLUID	Χ		Χ	С	Е	Χ	G	E	G	Χ	Χ	Е	Е	G	Е	E
BANANA OIL			G	С				Χ		Χ		E	Е			E
BARIUM CHLORIDE (AQ)	E	G	E	E	G	E	E	E	G	E		E	E	E	E	E
BARIUM HYDROXIDE (AQ)	E	G	E	E	G	E	E	E	G	E		E	E	E	E	E
BARIUM SULFIDE (AQ)	E		E	E		Е	E	Е		G		E	E	Е	E	E
BEER DESTRUCTION OF THE PROPERTY OF THE PROPER	Е	0	E	E	0	E	G	Е	_	E		E	E	V	E	E
BEET SUGAR LIQUORS BENZAL CHLORIDE	E G	G	E	Е	G	Е	G	Е	E	Е		E E	E E	Х	Е	E E
BENZAL CHLONIDE BENZALDEHYDE	G		Е	Х	G	Х	Х	Х	Е	Χ	X	E	E	Х	Х	E
BENZENE	X	С	X	X	С	X	X	X	G	X	X	E	G	X	G	E
BENZENE CARBOXYLIC ACID	E	C	^	X	C	^	E	X	G	^	^	E	G	^	E	
BENZINE CARBOXTEIC ACID	X		Х	X		Х	С	C	G	X		E		С	E	Е
BENZOIC ACID	X					X	E	Х	E	X		E	Е	O	E	E
BENZOL BENZOL	^	С	Х		С	^\	_	X	G	^		E	G		G	_
BENZOTRICHLORIDE		J	/		J			^	u			E	G		G	G
BENZYL ACETATE	Е			G		Х						E	E		Х	E
BENZYL ALCOHOL	G		G	G	С	X	Х	Х	С	Х	Х	E	E	Х	E	E
BENZYL CHLORIDE	X	Х	X	X	J	X	X	X	J	X	^	E	E	^	E	E
BENZYL ETHER	G	/\	C	X		X	X	X		X		E	_	G	X	_
	X		_	X		X		X		X		E				
BIS (2-CLOROETHYL) ETHER			_		0		0	G	С	G		E	Е	V	Е	
BIS (2-CLOROETHYL) ETHER BLACK SULFATE LIQUOR	G	С	Gi	G	G	G	G	G		G				Χ		
BLACK SULFATE LIQUOR BLEACH (2 – 15 %)	G G	С	G E	G E	G	G X	X	X	С	X		E		X	E	G
BLACK SULFATE LIQUOR		C G				X G							E E			G E

 $\mathsf{E} = \mathsf{excellent}; \, \mathsf{G} = \mathsf{good}; \, \mathsf{C} = \mathsf{conditional}; \, \mathsf{X} = \mathsf{unsatisfactory}$



^{*} compounds not in catalogue. Ask Parker for right solution

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Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
BRAKE FLUID (HD-557) 12 DAYS	G	Е	Е	G			G	С	E	E		Е			Χ	
BRINE	Е	G	Е	Е	G	Е	G	Е	G			Е	Е		Е	Е
BROMACIL			E									_	-		_	-
BROMOBENZENE BROMOCHLOROMETHANE	X	X	X	X		X	X	X		Х		E E	С	Х	E C	С
BROMOETHANE BROMOETHANE	X	Х	G X	X		X C	X	G		Χ		E		Х	E	
BROMOTOLUENE	X	Х	^	X		Х	^	u		X		E		^	G	F
BUGDIOXANE				Λ.		Λ.						_			G	E
BUNKER OIL	Х		Х	Х		Х	Х	Е		Х		Е	Е	G	E	Е
BUTADIENE	Χ		Χ	Χ		Χ	Χ	Χ		Χ		Е	Ε	Χ	G	Е
BUTANE	Χ		Χ	Χ	E	Χ	С	Ε	Ε	Χ		Е	Ε	Χ	E	Ε
BUTANOIC ACID			G	С								Е			G	
BUTANOL (BUTYL ALCOHOL)	G	G	G	E	G	Е	Е	Е	G	Е	G	Е	Е	Χ	Е	Е
BUTANONE	E	G	E	Х	Е			X	G		Х	G	Е	X		Е
BUTOXYETHANOL	E	_	E	X	0	X	X	С	_			E	_	E	V	_
BUTYL ACETATE BUTYL ACRYLATE	X	С	X	X	С	X	X	X	G	Χ		X E	E G	Χ	X	E G
BUTYL ALCOHOL	G	G	G	E	G	X E	E	E	G	Е	G	E	E		E	E
BUTYL ALDEHYDE	G	G	G	С	G	C	С	C	G	C	G	E	E	С	X	E
BUTYL BENZYL PHTHALATE	E		G	Х		Х				Χ	G	E	E	U	C	E
BUTYL CARBITOL	E		Е	X		Х	С	Х		Х		E	E		С	C
BUTYL CELLOSOLVE	E		G	Χ		Χ	Х	С		Χ	Е	E	E		X	E
BUTYL CHLORIDE	С			Х		Х						Е	С		Е	G
BUTYL ETHER	Χ		Χ	Χ		Χ	Χ	Χ		Χ		Е	Ε	G	Χ	Е
BUTYL ETHER ACETALDEHYDE	G			Χ		Χ			Χ			Е	Е		Χ	Е
BUTYL ETHYL ETHER	Χ			Χ		Χ		G				Е	Е			Е
BUTYL OLEATE	G		G	Χ		Х	Х	Х		Х		Е			Е	
BUTYL PHTHALATE	G		E	X		Х				X		E	_	_	С	E
BUTYL STEARATE	X		X	X	0	X	X	G E	G	X		E E	Е	G C	Е	Е
BUTYLENE BUTYRALDEHYDE	G		C	Х	G	X	X	X	G	X			Е	X	E X	Е
BUTYRIC ACID	G		G	С		X	X	X		X		Е	E	^	G	
BUTYRIC ANHYDRIDE	C		u	G		C	^	C		^		E	_		u	Е
CADMIUM ACETATE	E			E		X						E	Е			E
CALCIUM ACETATE	Е			С		Е	G	G		Х		Е	Е	Х	Χ	Е
CALCIUM ALUMINATE	Е			Е		Е		Е				Е			Е	Е
CALCIUM BICHROMATE	Е			С								Е				G
CALCIUM BISULFIDE			Χ		G		С	Е	G	G		Е		С	Е	
CALCIUM CHLORATE	_	_	E				E					_	E		E	
CALCIUM CHLORIDE	E	G	E	Е	E	E	E	E	E	E		E	E	E	E	E
CALCIUM HYDROXIDE	Е	G	E	G	E	E	E	E	E	E		E	E	E	E	E
CALCIUM HYPOCHLORITE CALCIUM NITRATE	Е	G	Е	E	С	X	C E	X	X	X		E E	C E	X	E E	С
CALCIUM SULFIDE	E E	Х	E E	E E		E X	E	E E	E E	E X		E	E	E	E	E E
CAPRILIC ACID	С	^	_	G		C	_	С	_	^		E	E	_	_	E
CARBAMIDE	G			E		E	G	G				E	_			_
CARBITOL	E		G	G		X	С	G	Е	G		E	Е	Х	G	Е
CARBOLIC ACID (PHENOL)	G	G	X	X		X	Х	X	X	X	Х	E	E	Х	E	E
CARBON DIOXIDE	G		G	G		G	G	Ε	Ε	G		Е	Ε	Ε	G	Е
CARBON DISULFIDE	Χ		Χ	Χ		Χ	Χ	Χ	Χ	Χ		Е	Е	Х	Χ	С
CARBON MONOXIDE	Е	G	Е	Е	Е	С	Е	Е	Е	G	Е	Е	Е	G	E	E
CARBON TETRACHLORIDE	Х	С	Χ	Χ	Χ	Χ	Χ	С	Χ	Χ	Х	Е	G	Χ	E	Е
CARBON TETRAFLUORIDE	_	V	G	_	V	_			_	_	V		В	_	В	_
CASTOR OIL	E G	X	E	E E	X	E	G	G E	G	G	X	E	г	E	G	Е
CASTOR OIL CAUSTIC SODA (SEE SODIUM HYDROXIDE)	Gi E	G	G E	E	C	Е	E E	E	G G	Е	C E	E	Е	G	E G	Е
CELLOSOLVE ACETATE	G		G	Х	U	Х	X	Х	G	Х		E	Е	Х	X	Е
CELLUGUARD	E		E	X		E	E	E	G	E		E	_	E	E	_
CELLULOSE ACETATE	_		_	/\		_	X	_	J	_		_	В	_	С	
CETYLIC ACID	G	G	G	С	Е	Е	G	Е	С	В	Е	Е		Е	E	
CHINA WOOD OIL (TUNG OIL)	X	C	X	E	G	X	E	E	G	X		E		C	E	
CHLORDANE	Х		Χ	С	С	Χ	С	G	G	Χ				С	Е	
CHLORINATED SOLVENTS	Χ	Χ	Χ	Χ		Χ	Χ	Χ	Χ	Χ		Е		Χ	Е	G
CHLORINE GAS (DRY)							С						С		Е	
CHLORINE WATER SOLUTION (MAX. 3 %) + G108													E			
CHLORO-2-PROPANONE	X		Е	Х		Х	С	X		Х		Е		Х	Х	

 $E = excellent; \ G = good; \ C = conditional; \ X = unsatisfactory$



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 $^{^{\}ast}$ compounds not in catalogue. Ask Parker for right solution

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Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
CHLOROACETIC ACID	G		G	G	Χ	Х	Χ	Χ	Χ	Х	Х	Е	Е	Χ	G	Е
CHLOROACETONE	Χ		Е	Χ		Χ	С	Χ		Χ		Е	Е	Χ	Χ	Е
CHLOROBENZENE, MONO, DI, TRI	Χ		Χ	Χ	Χ	Χ	Χ	Χ	E	Χ	Χ	Ε	G	Χ	Ε	Α
CHLOROBUTANE	С			Χ		Χ		Χ				Е	G	С	Е	G
CHLOROETHYLBENZENE	Х	Х	Х	Χ		Χ				Х		E	E	G	Е	Е
CHLOROFORM	X	Χ	Χ	X	Χ	X	Х	Χ	Χ	X	Х	E	E	Х	G	G
CHLOROPHENOL	С			Х		Х				Х		Е	E B		E	Е
CHLOROPHENOL CHLOROSULFONIC ACID	Х	Х	Х	Χ	Χ	Х	Х	Х	Х	Х	Х	Е	Х	Х	G X	Х
CHLOROTOLUENE	X	^	X	X	^	X	X	X	^	X	^	E	G	X	E	G
CHLOROX	G		G	G		X	G	G		X		E	G	X	E	G
CHROME PLATING SOLUTIONS	X		X	X		X	X	X		X		E	G	X	E	G
CHROMIC ACID	G	Х	Χ	Х	Х	Х	Х	Х	Х	Х	Х	E		Х	Е	
CHROMIUM TRIOXIDE	G	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Е		Χ	Е	
CINNAMENE	Χ		Χ	Χ	Χ	Χ	Χ	Χ		Χ		Е		С	G	
CIS-9-OCTADECENOIC ACID	Χ	Χ	С	G	Е	Χ	С	Е	Е	Χ		Е		G	Е	Е
CITRIC ACID	Е	Χ	Е	Е	G	Е	Е	Е	G	Е	Е	Е	Е	Е	С	Е
COAL OIL	Χ		Χ	С		Χ	G	Е	Е		Χ	Е	Е	С	Е	Е
COAL TAR	X		X	X	Χ	X	С	G		X	Χ	E	Е	С	E	E
COAL TAR NAPHTHA	X		X	X		X	_	X		X		E	-	X	E	Е
COCONUT OIL	G		G	С		X	С	E	_	X		E	Е	С	Е	E
COKE OVEN GAS	X		X	X	V	X	X	X E	Е	X		С		X	E E	Е
COOLANOL (MONSANTO) COPPER CHLORIDE	X	Х	X E	G G	X E	X G	G G	E	С	X E		Е	Е	X G	E	Е
COPPER CYANIDE	E	^	E	G		E	E	E	G	E		E	E	E	E	E
COPPER HYDRATE	E		_	G		С		G	G			E	E	_	С	
COPPER HYDROXIDE	E			G		C		G		G		E	_		С	Е
COPPER NITRATE			Е				Е						Е		Ē	
COPPER SULFATE	Е	Χ	Е	Е	Е	G	Е	Е	G	G		Е	Е	G	Е	Е
CORN OIL	G		Χ	G	Ε	Χ	С	Е	G	Χ	Е	Ε	Ε	Е	Е	Е
COTTONSEED OIL	С	G	С	G	Ε	Χ	С	G	E	Χ		Ε	Ε	Е	Ε	E
CREOSOTE	Χ		Χ	Χ		Χ	Χ	G	Χ	Χ		Е	Е	С	Е	Е
CRESOLS	Х		Х	Χ	Χ	Х	Х	Х	Х	Х	Х	E	E	Х	Ε	E
CRESYLIC ACID	X		X	X		X	X	X		X		E	E	X	G	E
CROTONALDEHYDE	Е		E	Х		Х	X	X	_	С		E E	E E	X	X	E
CRUDE OIL CUMENE	Х		X	Х		Х	X	G X	Е	X		E	E	G X	E E	E E
CUPRIC CARBONATE	E		^	E		Ĉ	E	E		^		E	E	^	E	E
CUPRIC HYDROXIDE	E			G		С	_	G				E	_		С	_
CUPRIC NITRATE	E		Е	E		G	Е	E				E	Е		E	Е
CUPRIC SULFATE	E		E	E		G	E	E		Е		E	E	Х	E	E
CUTTING OIL	Χ		Χ	G		Χ	G	Е		Χ		Е		Е	Е	
CYCLOHEXANE	Χ		Χ	Χ	Е	Χ	Χ	G	G	Χ	Χ	Е	Ε	G	Ε	G
CYCLOHEXANOL	Χ		Χ	В		Χ	G	G	G	Χ	Χ	Е	Е		Е	Е
CYCLOHEXANONE	Χ		С	Χ		Χ	Χ	Χ	G	Χ	Χ	Е	Ε	Χ	Χ	Е
CYCLOPENTANE	Х		Χ	Χ		Χ	Е	G				Е	Е		Е	Е
CYCLOPENTANOL	X			X		X		G		Х		_	Е		G	E
CYCLOPENTANONE	X			X		X		X				Е	_		X	E
CYCLOPENTYL ALCOHOL	X		V	X		X	_	G	Г	X		г	Е	0	G	E E
DDT IN DEIONIZED KEROSENE DECAHYDRONAPTHALENE	X		X	X		X	C X	E X	E G	X	Χ	E E		G X	E E	E
DECAHYDROXYNAPTHALENE DECAHYDROXYNAPTHALENE	٨	С	٨	٨		^	^	^	G	^	^			^	С	
DECALIN	Х	U	Х	Χ		Х	Х	Х	G	Х	Х	Е	Х	Х	Е	Е
DECYL ALCOHOL	X		^	E		X	X	E	u	^	^	E	E	^	G	E
DECYL ALDEHYDE	C			X		X		_				E	E		X	E
DECYL BUTYL PHTHALATE	E			X		X		Х				E	E		C	E
DECYL CARBINOL	Е			Е		Е		Е				Е			G	
"DETERGENT, WATER SOLUTION"	Е		Е		G		G	Е		G		Е	Е	G	Е	
DEVELOPING FLUID (PHOTO)	G		G	Е	Χ	Е	Е	Е		G		Е			Е	
DEXTRON	Χ		Χ	Χ		Χ	G	Е		Χ				G	Е	
DI(2ETHYLHEXYL) ADIPATE	Е		G	Χ		Χ	Χ	Х				Е			С	
DI(2ETHYLHEXYL) PHTHALATE	G		G	X	E	X	X	X	Е	X		E	_	X	G	_
DIACETONE ALCOHOL	E	_	E	X	С	X	X	X		X	_	E	Е	X	X	С
DIALLYI DUTUALATE	Е	G	Е	Х		X	Х	Х		Χ	Е	Е		Х	Χ	
DIALLYLPHTHALATE DIAMMONIUM PHOSPHATE	Е	G E	Е	Е		Е	Е	Е		Е		Е			Е	
DIAWWO INIOWI FROSFIALE		С	C	Ē		C				C		C			C	



^{*} compounds not in catalogue. Ask Parker for right solution

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Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
DIAMYL NAPTHALENE	Е			Χ		Χ	_					Е			С	Е
DIAMYL PHENOL	Х			Χ		Χ		Χ		Χ		Е			Е	Е
DIAMYLAMINE	Е		Е	С		G		G		Χ		Е		Χ	Χ	
DIAMYLENE	Х			Χ		Χ	Χ	С	G			Е			Е	Е
DIBENZYL ETHER	G		С	X		X	Х	Х		Х		E	E	G	X	E
DIBROMOBENZENE DIBROMOMETHANE	X		0	X		X	V	~			~	E E	G		E G	Е
DIBUTYL ETHER	X		C X	X		X	X	X		Χ	Х	E	Е	Χ	X	Е
DIBUTYL PHTHALATE	C		E	X	G	X	X	X	Е	X		E	E	X	C	E
DIBUTYL SEBACATE	G		G	X	G	X	X	X	_	X		E	E	X	E	E
DIBUTYLAMINE	Х		Χ	Χ		Х	Χ	Х		Χ		Е	Е	Х	Х	
DICALCIUM PHOSPHATE	Е			Е		Е		Ε				Е			Е	Е
DICHLORO DIFLUORO METHANE	Χ	С	С	Ε	E	Χ	G	С	G	E	Χ	Е		Е	G	
DICHLORO ETHYLENE	С		Χ	Χ	Χ		Χ		С		Χ	Е		С	G	
DICHLOROACETIC ACID	С			X		G						E	E	С	X	Е
DICHLOROBUTANE	X		С	X		X	X	G		X		E	Е	X	E	G
DICHLOROETHANE DICHLOROETHAN ETHER	C X	Х	Х	X	Х	X	Х	X	С	X	Х	E E		Х	G	E
DICHLOROFLUOROMETHANE	X			Χ		Χ		Χ		٨		Е	Е		G	E
DICHLOROHEXANE	X			Х		Х						Е	E		E	Е
DICHLOROMETHANE	X		С	X	Х	X	G	Х	С	Х	Х	E	E		G	E
DICHLOROPENTANE	X		Ü	X	, ,	X	X	X	Ü	X	7.	E	E	Х	E	E
DICHLOROPROPANE	Х			Х		Х	Х	Х				E	E		E	E
DICHLOROPROPENE												Е	Е		Е	Е
DICHLOROTOLUENE		Χ														
DIESEL OIL	Х	Е	Χ	С	G	Χ	С	Е	Е	Χ	Χ	Е	Е	С	Е	С
DIETHANOLAMINE	Е		Е	С	Χ	G			G	Χ		Е	Е			
DIETHYL ETHER	X		X	Х	С	X	X	Х	Е	Χ	Е	E		Е	Х	
DIETHYL KETONE	G		E	X		X	X					E			Х	E
DIETHYL OXALATE DIETHYL PHTHALATE	X E		Х	X		X	Х	Х				E E	Е		С	E E
DIETHYL SEBACATE	G		G	C	Е	X	Х	Х		Х	Е	E		Х	G	
DIETHYL SULFATE	G		E	X	_	X	E	X		E	_	E		X	Х	
DIETHYL TRIAMINE	E		_	C		G	_	G		_		E		Λ.	7.	
DIETHYLAMINE	G		G	С		G	G	С		G		Е	Е	С	Χ	С
DIETHYLBENZENE	Χ		Χ	Χ		Χ	Χ	Χ		Χ		Е	Е	Χ	Е	Ε
DIETHYLENE GLYCOL	Е		E	Ε	E	Ε	Ε	Ε		E		Е	Ε	Χ	Ε	С
DIETHYLENE OXIDE	Х		Е									Е				
DIETHYLENE TRIAMINE	E		E	С		G	_	_		Х	Е	E	Е	Х	_	
DIHYDROXY DIETHYL ETHER	E		E	E		E	E	E				E		_	E	
DIHYDROXY SUCCINIC ACID DIISOBUTYL KETONE	G G		G E	E X		E X	C X	G X		Χ		E E	Е	E X	E X	Е
DIISOBUTYLENE	X		X	X		X	C	E		X		E		X	E	E
DIISODECTYL PHTHALATE	E		E	X		X	Ü			X		E	Е	^	С	E
DIISODECYL PHTHALATE	E		E	X		Х	Х	Х		/\		E	_		С	_
DIISOOCTYL ADIPATE	E			Χ		X		X		Χ		E	Е		С	Е
DIISOOCTYL PHTHALATE	E		G	Χ		Χ						Е	Ε		С	E
DIISOPROPANOLAMINE	Е			С		G		G				Е				
DIISOPROPYL ETHER	Χ		Χ	С		Χ	Χ	G		Χ		Е		G	Χ	E
DIISOPROPYL KETONE	Е		Е	Χ		Х	Χ	Х		Χ		Е		Х	Х	Е
DIMETHYL PHTHALATE	G		G	X	Е	Х	Х	X		Х	G	E	E	Х	E	Е
DIMETHYL SULFATE	G			Χ		V		X				Е	Е		Χ	
DIMETHYL SULFIDE DIMETHYLAMINE	C G		Χ	Χ		Х	Χ	X				E E	Е		Χ	Е
DIMETHYLANILINE	X	С	G	X			X	X		Х		E	G	Х	X	G
DIMETHYLBENZENE	X	С	X	X	Х		X	X	G	X	Х	X	E	X	E	J
DIMETHYLBUTANE	, ,	G											_		_	
DIMETHYLCARBINOL	Е		G	Е		Е	Е	G				Е	Е		Е	
DIMETHYLFORMAMIDE			G										Е		Χ	
DIMETHYLKETONE	Е	G	Е	Χ	С		Χ	Χ	Е	С	Е	Е	Е	Χ	Χ	
DIOCTYL ADIPATE	Е		G	Х		Χ	Χ	Χ				Е	Е		С	
	G		G	Χ	Е	Χ	Χ	Χ	Е	Χ		Е	Е	Χ	G	Е
DIOCTYL PHTHALATE																
DIOXALANES	X		G	X		X	X	X	_	X		E	E	X	X	E
	X G X		G G X	X X X		X X X	X X X	X X G	Е	X X X		E E E	E	X X X	X X E	E

 $\mathsf{E} = \mathsf{excellent}; \ \mathsf{G} = \mathsf{good}; \ \mathsf{C} = \mathsf{conditional}; \ \mathsf{X} = \mathsf{unsatisfactory}$



TH22 Catalogue 4401/UK

 $[\]ensuremath{^*}$ compounds not in catalogue. Ask Parker for right solution

Chemical or Material	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
Conveyed	Bn	Ö	EPI	ន	TPC	Nat	Neop	N E	Ž	SE	Ë	PT	ᇹ	Uret	똤	×
DI-P-MENTHA-1,8-DIENE	Χ		Χ	Χ		Χ	X	G		Χ		Е		Χ	Е	
DIPROPYLAMINE	E			С		G		G				E			_	
DIPROPYLENE GLYCOL DISODIUM PHOSPHATE	E E		Е	E E		E E		E E				E E	Е	Е	E E	Е
DIVINYL BENZENE	X		_	X		X		_		Х		E	E		E	E
DOWELL INHIBITOR		G														
DOWFAX 2A1 SOLVENT		Е														
DOWFAX 2A1 TA DOWFAX 6A1 SOLVENT		E														
DOWFAX 6A1 TA		G E														
"DOWTHERM, A AND E"	Х	X	Х	Х	G	Х	Х	Х	Х	Х		С	Е	Х	Е	Е
DRY CLEANING FLUIDS	Χ		Χ	Χ			Χ	С		Χ		Е		Χ	Е	
DUCGKIRIOEBAANE	Χ							_	_			_				
DURO AW16, 31			X					E E	E E			E E				
DURO FR-HD EHTYL BUTYL ACETATE	Е		Х	G		Χ		X	E			E	Е		Х	Е
EHTYL DICHLORIDE	С		С	X		X	Х	X		Х		E	_	Х	G	G
EHTYLENE DIBROMIDE	Χ		С	Χ		Χ	Χ	Χ		Χ		Е	G	Χ	G	G
EPICHLOROHYDRIN	_	_	С		_		_	_	_	_	_	_	В			
ETHANOIC ACID	G	E	Е	С	С	Х	G	С	C	G	С	E	F	X	X	Е
ETHANOL (GRAIN ALCOHOL) ETHANOLAMINE	E G	G	E G	E X	Е	E G	E G	E G	Χ	E X	Е	E E	E E	X	C X	E E
ETHERS	X	G	С	X	Х	Х	Х	Х	Е	X		E	_	X	X	_
ETHYL ACETATE	G	G	E	Χ	С	X	X	X	E	Χ	Е	E	Е	X	Χ	С
ETHYL ACETOACETATE	G		G	Χ		С	Χ	Χ		С		Е	Е		Χ	Ε
ETHYL ACETONE	G		G	X		X	X	Х		X		E	_		X	
ETHYL ACCHOL	G E	G	G E	X E	Е	X E	X E	X E	Χ	X E	Е	E E	E E	X	X E	G E
ETHYL ALCOHOL ETHYL ALDEHYDE	G	G	E	С	E	X	X	X	Χ	E	E	E	E	C	X	E
ETHYL ALUMINUM DICHLORIDE	X		_	X		X	Λ.	X				E	_	Ŭ	G	G
ETHYL BENZENE	Χ		Χ	Χ		Χ	Χ	Χ		Χ		Е	Е	Χ	Е	Е
ETHYL BROMIDE	Χ		Χ	Χ		С	Χ	G		Χ		Е		Χ	Е	
ETHYL BUTANOL	E			E		E		E				E	Е		G	E
ETHYL BUTYL KETONE ETHYL CELLULOSE	G G		G	X G	G	X G	G	X G	С	G		E E	Е	G	X	E E
ETHYL CHLORIDE	E	Х	E	С	X	C	X	E	E	G	Х	E	G	С	E	G
ETHYL DIISOBUTYLTHIO-CARBAMATE						Е				Е			Е			Е
ETHYL ETHER	Χ	G	Χ	Χ		Χ	Χ	Χ	Е	Χ		Е	Е	С	Χ	Е
ETHYL FORMATE	G		G	G		X	G	X		Х		E	E		E	E
ETHYL IODIDE ETHYL OXALATE	C		C	X		X C	X	X		Χ		E E	G E	Е	G E	E E
ETHYL PHTHALATE	E		U	X		Х	Λ	X		Λ.		E	E	L		_
ETHYL SILICATE	Е		Е	G		G	Е	Е		G		Е	Е	Х	Е	Е
ETHYLAMINE	G		Е	С		С	Χ	Χ		С		Е	Е	Χ	Χ	
ETHYLENE PROMINE			0										E		E	
ETHYLENE BROMIDE ETHYLENE CHLORIDE			С										B G		G G	
ETHYLENE CHLOROHYDRIN	G		G	С		С	G	Х				Е	E		E	Е
ETHYLENE DIAMINE	E		E	G		G	E	G		G		E	E	Х	X	E
ETHYLENE DIBROMIDE													В		Е	
ETHYLENE DICHLORIDE	С	Х	X	С	Χ	X	X	X	С	Х	Х	E	G	X	G	G
ETHYLENE G MONOETHYL E ACETATE ETHYLENE G. MONOBUTYL ETHER	E		E E	X		C X	X C	C		Х		E E		X	E X	Е
ETHYLENE G. MONOBOTYL ETHER ETHYLENE G. MONOHEXYL ETHER			Е	U		^	U	U		^				^	^	E
ETHYLENE G. MONOMETHYL ETHER	Е		G	G		Х	Е	С				Е			Х	E
ETHYLENE GLYCOL	Е	G	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	G	Е	С
ETHYLENE OXIDE	X	Χ	С	X	E	X	X	X	G	X		E	_	X	X	_
FATTY ACIDS FERRIC BROMIDE	X E		Х	C E	G	X E	G	E E	Е	Х	Χ	E E	E E	С	E E	Е
FERRIC CHLORIDE	E	Χ	Е	E	G	E	Е	E	С	Е		E	E	Е	E	Е
FERRIC NITRATE	E	^	E	E	u	E	E	E	E	E		E	E	E	E	E
FERRIC SULFATE	Е	Х	E	E	Е	E	E	E	E	E		E	E	G	E	E
FERROUS ACETATE	Е			Е		X		X				E			X	Е
FERROUS CHLORIDE	G		E	G	E	E	G	E	E	_		E	E	G	E	E
FERROUS SULFATE FLOUROSILIC ACID	E		E E	E E	Е	E E	E E	E E	E	E G	С	E E	E C	Е	E C	G
T LOUI TOOLLIO AOID			E	E		E	E			G 	/					



^{*} compounds not in catalogue. Ask Parker for right solution

GASOLINE OR JULY CACID GLUCIONIC ACID GLUCIONIC ACID GLUCONIC ACID GLUCOSE GLUC						<u> </u>	=-	Je							e		
FLUENDINE S.Y. S.		Butyl	CPE	EPDM	CSM	TPC-E	Natura	Neopre	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethar	FKM	XLPE
PORMALIDEMONIE	FLUOBORIC ACID	G		Е	Е		Е	Е	Е		Е		Е	С	Χ	Е	С
FORMICA CIDID	FLUORINE	Χ		Е	Χ	Χ	Х	Χ	Χ	Х			G	Χ	Χ	Е	Χ
FORMON ACID F X X X X X X X X X	FORMALDEHYDE				G									Ε			
FRECN 113																	
FREON 12 FREON 12 FREON 12 FREON 12 FREON 12 FREON 12 FREON 10 FRE			Х											Е			С
FREON 22																	
FREDNSO2 FREDNELA A/STIM FREDN																	
FULLE AL METHIN			C		E	Х						Х	E		Х		
FULLE (JASTIM) V					G	_						~	_	G	G		G
FUEL CILIT	, ,																
FURILIDENYOE		^	u		^		^		^	_	^	^			u		u
FURAN	, ,	X	F		C	G	X		F	G	X		F		C		F
FURPLIFYAL FURPLI												F		_			_
FURFURAN FUR		•	_			G				Ü		_					
FLIFFLIRAN X			F			G				C		F		F			F
FURPEMPILALCOHOL		1	_			۵				3		_		_			_
GALLOTANDIC ACID GALLOTANDIC ACID GALLOTANDIC ACID GALLOTANDIC ACID GALLOTANDIC ACID GAS, COOLA V						G				G		Е		Е			Е
GALICTANNIC ACID AS, 100 COTANIC AS, 100 COTANIC AS, 100 COTANIC BAS, 100 COTANI												_					
GAS, COAL GAS, COAL GAS, COAL GAS, COAL CASOLINE CA																	
GASQLING GAS	GAS, 100 OCTANE					Е				G	Х	Х		С			
GASOLINE OR JULY CACID GLUCIONIC ACID GLUCIONIC ACID GLUCONIC ACID GLUCOSE GLUC																	
CALCAILA CACING C		Х	Е		Χ	Е	Χ	Χ	Е		Χ		Е	G	С		
CLUCOSE	GLACIAL ACRYLIC ACID																
CLYCERINE	GLUCONIC ACID	С			G		Χ		С				Е	Е			
CLYCOGENIC ACID	GLUCOSE	Е		Е	Е	G	Е	G	Е	G	Е		Ε	Е	С	Е	Е
GLYCOLS C	GLYCERINE		Е	Е	Ε	Е	Е	Е	Е	G	Е	Χ	Е	Α	С	Ε	С
SILVOOLIS C	GLYCEROL	Е	Е	Ε	Ε	Ε	Ε	Е	Е	G	Е	Χ	Ε		С	Ε	
SINCONIC ACID C	GLYCOGENIC ACID	С			G		Χ		С				Ε				
GLYCYL ALCOHOL	GLYCOLS	Е		Е	Ε	С	Ε	E	E	G	Ε	G	Ε	Е	Χ	Е	Е
GREEN SULFATE LIQUOR	GLYCONIC ACID	С			G		Χ		С				Е	Ε			
GREEN SULFATE LIQUOR	GLYCYL ALCOHOL	Е	Е	Е	Е		Е				Ε	Χ					
HALON 1211	GREASE, PETROLEUM BASE		Е		Χ				Е			Χ					
HELIUM	GREEN SULFATE LIQUOR	Е		Е	G	Χ	G			Χ	G		Ε	Е	Е	Ε	Е
HEPTALDEHYDE																	
HEPTANAL				Е				E		Е	Е				Е		
HEPTANE CARBOXYLIC ACID														_			
HEPTANE CARBOXYLIC ACID			_							_							
HEPTANOIC ACID HEPTANONE			E	Χ		G		G		Е	Х			Е	G	Е	G
HEPTANONE		С	_		G		Х		С				E				
HEXADECANOIC ACID G G G C E E G E C B E E G E E G E E E E																	
HEXALDEHYDE		_		0	_	_	_		_	_	_	_	_		_	_	
HEXANE			Gi			E				Ċ		E		Г			Е
HEXANOL						_				г		_					
HEXENE										Е		Е					
HEXYL ALCOHOL																	
HEXYL METHYL KETONE														E			
HEXYLAMINE				G				G							^		
HEXYLENE GLYCOL																	
HISTOWAX HYDRAULIC OIL, PETROLEUM HYDRAULIC FLUID (PHOSPHATE ESTER BASE) HYDRAULIC FLUID (POLYALKYLENE GLICOL BASE) HYDRAZINE HYDROBROMIC ACID HYDROCHLORIC ACID HYDROCYANIC ACID HYDROCYANIC ACID HYDROFLUORIC ACID HYDROGEN CHLORIDE ANHYDROUS HYDROGEN CHLORIDE ANHYDROUS HYDROGEN GAS HE C E E E G E E G G C E E E E G G C E E E E				C				F									
HYDRAULIC OIL, PETROLEUM Image: color of the color of th		L.	F	U	<u>L</u>		<u> </u>	<u> </u>	_				_				
HYDRAULIC FLUID (PHOSPHATE ESTER BASE) I E I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I				X	G	F	Х	G	F	F		X	F	F		F	F
HYDRAULIC FLUID (POLYALKYLENE GLICOL BASE) I C I G G I E E E E G X X G G X G E E E E I E I E I E I I E I E I I I I E I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	,		_		J	_	^		_	_		^	_				
HYDRAZINE E E E G X X G G X G E E E F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F	•																
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HYDROCHLORIC ACID E X C C C C C C C C C C C C C C C C G E E E C G E HYDROCYANIC ACID G X C E X C C C X C X E E X G C X E E X G C X G X E E X G X C X C X G X G E X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X <			Х											G	Χ		С
HYDROCYANIC ACID G X E E X G G X G E E X E HYDROFLUORIC ACID E X E E G E G X G E E X G C C X G X E E X G C C E X G X G X E E X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X G X						С						Е					
HYDROFLUORIC ACID G X C E X C C C X E E X G C HYDROGEN CHLORIDE ANHYDROUS E E F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F <td></td>																	
HYDROFLUOSILICIC ACID E X E E G E G E G C E C HYDROGEN CHLORIDE ANHYDROUS E E F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F	HYDROFLUORIC ACID		Χ	С	Е	Χ	С	С	С	Χ	С	Χ	Е	Е	Χ	G	С
HYDROGEN DIOXIDE (10 %) C G G G X C U E E E E HYDROGEN GAS E C E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E			1														
HYDROGEN GAS E C E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E <t< td=""><td>HYDROGEN CHLORIDE ANHYDROUS</td><td></td><td>Е</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	HYDROGEN CHLORIDE ANHYDROUS		Е														
HYDROGEN GAS E C E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E <t< td=""><td></td><td>С</td><td></td><td>G</td><td>G</td><td></td><td>G</td><td>Χ</td><td>С</td><td></td><td></td><td></td><td>Е</td><td></td><td></td><td>Е</td><td></td></t<>		С		G	G		G	Χ	С				Е			Е	
HYDROGEN PEROXIDE 10 % G G E X G X C G C E G G G E G	. ,		С			Е				Е	G			Е	Е		Е
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	HYDROGEN PEROXIDE OVER 10 %	Χ	Χ	С	G	Χ	Χ	Χ	Χ	Χ	Χ		Е	Е	С	Е	С

 $\mathsf{E} = \mathsf{excellent}; \ \mathsf{G} = \mathsf{good}; \ \mathsf{C} = \mathsf{conditional}; \ \mathsf{X} = \mathsf{unsatisfactory}$



TH24 Catalogue 4401/UK

 $[\]ensuremath{^*}$ compounds not in catalogue. Ask Parker for right solution

							4									
Chemical or Material	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
Conveyed	ā	0	늅	Ö	TP(Nai	Neo	Ż	Ź	S	-	<u> </u>	3	Urel	正	×
HYDROGEN SULFIDE (WET)	Е	Χ	Е	Ε	Ε	Χ	Е	С	Χ	Χ		Е	Е	С	С	Е
HYDROXY BENZENE	G	_	С	С		Χ	Χ	Х				Е		С	Е	
HYDROXYIOLUENE		E E														
HYDROXYTOLUENE HYVAR XL			Е													
IMINODI-2-PROPANOL		Е														
IMINODIETHANOL		E														
IODINE	G	_	G	G		Χ	Х	G	Е	G		Е	G	Χ	Е	С
IODINE PENTAFLUORIDE	Χ		Χ	Χ		Χ	Χ	Χ		Χ		Е	С	Χ	Χ	С
IODOFORM			Χ			Χ	Χ	Е		Χ						
ISOBUTANAL		G														
ISOBUTANE							Χ						Е		Е	
ISOBUTANOL (ISOBUTYL ALCOHOL)			Е				Е						Е		Е	
ISOBUTYL ACETATE			С	_		_							В			
ISOBUTYLAMINE	E			С		С		X				E			X	
ISOBUTYLBROMIDE	X		Е	X		X E	Е	X				E		_	G	
ISOBUTYLCARBINOL ISOBUTYLENE	Е		Е	Е		Е	E	Е				Е	Е	С	E E	
ISOCYANATES					G			G	G				E	G	G	Е
ISOOCTANE	Х	Е	Х	G	E	Х	G	E	E	Х	Х	Е	E	G	E	E
ISOPROPANOL	^	_	E	G	_		E	_	_			_	E	G	E	_
ISOPROPYL ACETATE	G		G	Х	С	Χ	X	Х	G	Χ		Е	E	Χ	X	Е
ISOPROPYL ALCOHOL	Е		Е	Е	Е	Е	G	Е	Е	Е		Ε	Е	Χ	Е	Е
ISOPROPYL ETHER	Χ		Χ	С		Χ	Χ	G		Χ		Е	Е	G	Χ	Е
JET FUELS	Χ		Χ	Χ		Χ	Χ	Е	С	Χ	Χ	Е	Е	С	Е	Е
JP-4 OIL	Χ		Χ	Χ	Е	Χ	Χ	Ε	С	Χ	Χ	Ε		С	Е	
KEROSENE	Χ	G	Χ	Χ	Е	Χ	С	Е	Е	Χ	Χ	Е	Е	G	Е	Е
KETONES	G	G	Е	С	Χ	С	Χ	Χ	Е	G	Χ	Е	Е	Χ	Χ	
LACQUER SOLVENTS	X	С	X	X	С	X	X	X	E	X		E	G	X	X	G
LACTIC ACID - COLD	Е	Х	E	E	X C	E X	E	E	E	E		E	Е	G	E	Е
LACTIC ACID – HOT	С		X G	C G	G	X	X G	X E	X E	X	Е	E E	G	С	E E	С
LAVENDER OIL	X		X	X	G	X	X	G		X		E	G	X	E	G
LEAD ACETATE	E		E	C		E	G	G		X		E	E	C	E	E
LEAD NITRATE	E		E	С		E	E	E		E		E	_	Ü	E	_
LEAD SULFATE	Е		Е	Е	G	Е	G	Е	G			Е	Е		Е	Е
LIME	Е		Е	Е	G	Е	Е	Е	G			Е		G	Е	
LIME BLEACH	Е		Е	G		Е	G	Е		Е		Ε			Е	
LIME SULFUR, WET	Ε		С	G		С	Ε	Ε				Ε	Ε		Ε	Ε
LIMONENE	Χ		Χ	Χ		Χ	Χ	Χ				Е			Е	
LINOLEIC ACID	X	_	X	X		X	С	G	_	X		E	_	_	G	
LINSEED OIL	G	G	С	G	G	Χ	E	Е	Е	Х		Е	E	G	E	Е
LIQUID PETROLEUM GAS			Е				C E						E B		E E	
LIQUID SOAP LUBRICATING OILS, SAE	Х	G	X	Χ	Е	Х	С	Е	Е	Χ	Х	Е	E	Е	E	Е
LYE SOLUTIONS	E	С	E	E	С	E	E	С	G	G	C	E		G	G	_
MEX	G	С	E	X	С	X	X	X	E	X	Х	E	Е	X	X	Е
MAGNESIUM ACETATE	E		E	Е		Χ	Χ	Χ		Χ		E	_	Χ	Χ	E
MAGNESIUM CARBONATE			Е				Е						G		Е	
MAGNESIUM CHLORIDE	Е	G	Е	Е	G	Ε	Ε	Ε	Ε	Ε		Ε	Е	Е	Е	Ε
MAGNESIUM HYDRATE	Е		Е	Е		Ε	G	G				Е	Е	Е	G	
MAGNESIUM HYDROXIDE	Е	G	Е	Е	С	Е	Е	Е	Е	G		Е	Е	С	Е	Ε
MAGNESIUM SULFATE	Е	G	E	E	G	G	Е	Е	Е	G		Е	Е	С	Е	Е
MAGNESIUM SULFITE	Е		E	E		G	E	Е		G		_	_		E	
MALEIC ANILYPPIPE	X		E	X		X	X	С		X		E	Е	С	E	G
MALIC ACID	X		X	X		X	X	X	г	X		E	г		E	
MALIC ACID MANGANESE SULFATE	G		X E	G E		E G	G E	E E	Е	G		E E	E E	Е	E E	Е
MAPP	G		G	С		G	E	E		G			С		С	
MERCURY	Е	G	E	Е	Е	Е	E	E	Е	E		Е	Е	Е	Е	Е
MERCURY VAPORS	E	u	E	E	_	С	C	E	_	E		E	_	_	E	_
MESITYL OXIDE	С		G	X		X	X	X		X		E	Е	Χ	X	Е
METHALLYL ALCOHOL	Ē			E		E		E				E			G	E
METHALLYL CHLORIDE		С														
METHANE			Х				G						Е		Е	
METHANE CARBOXYLIC ACID							SE	E ACE	TIC A	CID						
E = excellent: G = good: C = conditional: X = unsatisfactory								* comi	oounds	not in	catalo	aue A	sk Parl	ker for	riaht s	olutio



^{*} compounds not in catalogue. Ask Parker for right solution

Conveyed METHANOIC ACID METHANOL (METHYL ALCOHOL)	Butyl	CPE	_						<u> </u>		<u> </u>	144	5	29	Σ	XLPE
			EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	×
METHANOL (METHYL ALCOHOL)	Е	Х	Е	Е	С	С	Е	С	Χ	Е	Е	Е		Χ	Χ	
,	Е	G	Е	Е	Е	Е	Е	Е	G	Е	Е	Е	Е	Χ	С	С
METHANOL (WOOD ALCOHOL)	Е	G	Е	Е	Е	Е	Е	Е	G	Е	Е	Е	Е	Х	С	С
METHOXY ETHANOL METHOXYETHOXY ETHANOL		E E														
METHYL 1-2, 4-PENTANEDIOL		E														
METHYL ACETATE	G	_	G	С	С	Х	С	Х	Е	Х		Е	Е	Х	Х	Е
METHYL ACETOACETATE	G		G	X	Ū	X	X	X	_	, ,		E	_	X	X	E
METHYL ACETONE	G		Е	Χ		С	Χ	Χ				Е	Ε		Χ	
METHYL ACETYLENE PROPADIENE			G				Е	Е		G						
METHYL ACRYLATE			G										В			
METHYL ALCOHOL	F	0	G	Е	Е	Е	F	_	_	Е	Е	_	B E	V	_	_
METHYL ALCOHOL METHYL ALLYL ALCOHOL	E E	G	Е	E E	Е	E E	Е	E E	G	Е		E E	Е	Х	C G	Е
METHYL ALLYL CHLORIDE	F	С		X		X				Х					F	G
METHYL AMYL CARBINOL	E	J		E		E		Е		, ,		Е			G	E
METHYL BENZENE	Χ	С	Χ	Χ	С	Χ	Х	Х	Е	Χ	Х	Е		Х	Е	Е
METHYL BROMIDE	С		С	Χ	Χ	Χ	Χ	G	G	Χ	Χ	Е	G	Χ	Е	G
METHYL BUTANE	X	_	X	X			X	E		_		E		G	E	
METHYL BUTANOL	E	Е	E	E	Е	E	E	E	Е	G	Е	E	_	X	E	
METHYL BUTYL KETONE METHYL CARBITOL	E E		Е	X E		X	Х	X C		X		E E	Е	Х	Х	Е
METHYL CELLOSOLVE	G		G	С		X	G	С		X		E	Е	Х	Х	E
METHYL CHLORIDE	Х	С	Х	Х	Χ	X	X	X	С	X	Χ	E	E	X	E	G
METHYL CYANIDE	E	-	E	G		G	E	С				E			X	
METHYL ETHYL KETONE	Е	G	Е	Χ	Е	Χ	Χ	Χ	G	Χ	С	Е	Е	Χ	Χ	Е
METHYL HEXANOL	Е			Е		Е		Е				Е	Е		G	Е
METHYL ISOAMYL KETONE		С	0										0			
METHYL ISOBUTYL KETONE (MIBK) METHYL METHACRYLATE	С		G X	Χ		Χ	Х	Χ	С	Χ	С	Е	G G	Χ	Χ	G
METHYL NORMAL AMYL KETONE	G		^	X		X	^	X	C	^	U	E	G	^	X	E
METHYL PROPYL ETHER	X			G		X		X				E				E
METHYL SALICYLATE	G		С			Χ	Χ	Χ				E			G	
METHYL STYRENE		С														
METHYL SULFIDE	С			Χ		Χ		Χ				Е				
METHYL TERTIARY BUTYL ETHER	G	Χ	_	_		_	X	X		X		G	G		X	
METHYL-1-PROPANOL METHYL-2-BUTANOL	E E	Г	Е	E E		E E	Е	G		E E		Е		X	E F	Е
METHYL-2-BUTANOL METHYL-2-BUTANONE	G	E X	С	X	Х	X	Х	Х	Е	X		Е		X	X	E
METHYL-2-HEXANONE	G	C	Ü	X	/\	X	Λ.		_	X		_		/\	X	E
METHYL-2-PENTANOL	E	-	Е	E		G	Е	G				Е			С	
METHYL-2-PENTANONE	С	Χ	G	Χ	Χ	Χ	Χ	Χ	G	Χ	Χ	Е		Χ	Χ	
METHYL-2-PROPEN-1-OL	Е		Е	Е		G	Е	G				Е			С	
METHYL-3-PENTEN-1-ONE		С														
METHYL-4-ISOPROPYL BENZENE METHYLALLYL ACETATE	Е	С		G		Χ		Χ				Е			Χ	Е
METHYLAMYL ALCOHOL	E		Е	E		G	Е	G				E			C	E
METHYLCYCLOHEXANE	X		_	X		X	_	X				E			G	G
METHYLENE BROMIDE	Х		Χ	Χ		Χ	Χ	Χ				Е	G		С	
METHYLENE CHLORIDE	Χ		С	Χ	Χ	Χ	Χ	Χ	С	Χ	Χ	Е	Ε	Χ	G	С
METHYLETHYL KETONE	Е	G	Е	Χ	Е	Χ	Χ	Χ	G	Χ	С	Е	Е	Χ	Χ	Е
METHYLHEXYL KETONE	G		_	X		X	_	X				E			X	E
METHYLISOBUTYL CARBINOL METHYLISOBUTYL KETONE	E C	V	E G	E X	V	G X	E X	G X	G	Χ	Χ	E E	Е	Χ	C	C E
METHYLISOBOTTL RETONE METHYLISOPROPYL KETONE	G	X	C	X	X	X	X	X	E	X	^	E	С	X	X	E
METHYLLACTONITRILE METHYLLACTONITRILE	E	^	J	C	/\	C	В	X	_	^	Е	E		X	X	
METHYLPHENOL	X		Х	С		X	X	X				E		X	E	
METHYLPROPYL CARBINOL	Е			Е		Е		Е				Е			G	
METHYLPROPYL KETONE	G		G	Χ		Χ	X	Χ		Χ		Е			Χ	Е
MIL-A-6091	E		E	E		E	E	G		E				X	E	
MIL-E-9500	E		E X	E C		E X	E C	E		E X				X C	E	
MIL-F-16884 MIL-F-17111	X		X	X		X	G	E E		X				C	E E	
MIL-F-25558B	X		X	G		X	G	E		X				G	E	
MIL-F-25576C	X		X	С		X	C	E		X				C	E	
MIL-F-7024A	Χ		Χ	Χ		Χ	Χ	Е		Χ				G	Е	

 $\mathsf{E} = \mathsf{excellent}; \ \mathsf{G} = \mathsf{good}; \ \mathsf{C} = \mathsf{conditional}; \ \mathsf{X} = \mathsf{unsatisfactory}$

 $\ensuremath{^*}$ compounds not in catalogue. Ask Parker for right solution



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							4) -							<i>a</i> .		
Chemical or Material	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
Conveyed	ā	0	曲	ပ	T P	Na	Neo	Ž	ź	S	-	<u>a</u>	5	Ure	ш	×
MIL-G-10924B	Х		Χ	G		Χ	Χ	E		Χ				G	Е	
MIL-G-25013D	X		X	G		X	G	E		X				С	E	
MIL-G-25537A MIL-G-4343B	X		X	G G		X C	G G	E G		X C				G E	E E	
MIL-G-5572	Х		X	X		Х	X	E		X				G	E	
MIL-G-7711A	Χ		Χ	Χ		Χ	Χ	Е		Χ				Е	Е	
MIL-H-13910B	G		E	G		G	G	G		Ε				X	Е	
MIL-H-19457B MIL-H-22251	E E		E E	X G		Χ	X G	X G		X G				Χ	C E	
MIL-H-27601A	X		X	С		Χ	G	G		X				С	E	
MIL-H-5606B	Х		С	G		Х	G	E		Χ				G	E	
MIL-H-6083C	Χ		Χ	G		С	G	Е		Χ				G	Е	
MIL-H-8446B	X		X	С		X	G	G		X				С	E	
MIL-J-5161F MIL-J-5624G (JP-3, JP-4, JP-5)	X		X	X		X	X	G E		X				C	E E	
MIL-L-15016	X		X	G		X	G	E		X				E	E	
MIL-L-17331D	Χ		Χ	G		Х	G	E		Χ				E	E	
MIL-L-2104B	Χ		Χ	С		Χ	G	Е		Χ				Е	Е	
MIL-L-21260	X		X	G		X	G	E		X				Е	Е	
MIL-L-23699A	X		X	С		X	С	G		X				С	E	
MIL-L-25681C MIL-L-3150A	E X		E X	G G		G X	G G	G E		G X				C G	E E	
MIL-L-3545B	X		X	C		C	G	G		X				С	E	
MIL-L-4339C	Χ		Χ	Χ		Χ	Χ	Е		Χ				Χ	Е	
MIL-L-6082C	Χ		Χ	G		Χ	G	E		Χ				Е	Е	
MIL-L-6085A	X		X	X		Х	Х	G		X				С	E	
MIL-L-7870A	X		X	X		X	G G	E E		X				X	E E	
MIL-L-9000F MIL-L-9236B	X		X	X		X	X	G		X				X	E	
MIL-O-5606				/		Λ.	Λ.	E							E	
MIL-O-7808	Χ		Χ	Χ		Χ	Χ	G		Χ		E		Χ	Е	
MIL-P-27402	Е		Е	G			G	G		G						
MIL-S-3136B TYPE 1 FUEL	X		X	G		X	G	E		X				G	E	
MIL-S-3136B TYPE 2 FUEL MIL-S-3136B TYPE 3 FUEL	X		X	X		X	X	C		X				G G	E E	
MIL-S-3136B TYPE 4 OIL, LOWSWELL	X		X	E		X	E	E		X				E	E	
MIL-S-3136B TYPE 5 OIL, MEDSWELL	X		X	G		Х	G	E		X				G	E	
MIL-S-3136B TYPE 6 OIL, HI SWELL	Χ		Χ	Χ		Χ	Χ	Е		Χ				G	Е	
MIL-S-81087	E	_	Е	E		E	E	E	_	Ε		_	_	E	Е	_
MINERAL OIL	X	G	X	E	Е	X	E	E	Е	X	Х	Е	E	E	E	E
MINERAL SPIRITS MOBILE HFA	Х		X	G		Х	Х	E E	Е	Χ		E E	Е	G	Е	Е
MOLTEN SULFUR	G		E	Е		G	Е	G	_			E	Х	G	Е	Х
MONOBUTYL ETHER	Χ		Χ	Χ		Χ	С	С		Χ		Е		Χ	Χ	Е
MONO-CHLOROACETIC ACID	G	Χ	С	Χ	Χ	С	E	Χ	Χ	Χ	Χ	E		Χ	G	Е
MONOCHLOROBENZENE MONOCHLOROBENZENE	X	0	X	X	С	X	X	X	G	X	X	E	G	Χ	E	G
MONOCHLORODIFLUOROMETHANE MONOETHANOL AMINE	X G	С	E G	E C	Х	C G	E G	X G		E G	Х	E E	Е	Χ	X	C E
MONOETHYL AMINE	G		E	C		С	X	Х		С		E	_	X	X	С
MONOMETHYLAMINE	C		E	С		С	C	G		Ü		E			C	E
MONOVINYL ACETATE			G										В		Е	
MORPHOLINE			X				X	X	Х			E	_	_	_	
MOTOR OIL MTBE	G	Χ	Χ	G	G		G X	E X	G	~		E G	E G	G	E X	Е
MURIATIC ACID	C	X	С	С	С	С	C	C	Х	X	Е	E	E	С	C	Е
NA-K	J	^	X	J	J	J	J	X	^	/\	_	X	_	J	J	_
NAPHTHA	Х	Е	Χ	Х	Е	Х	Х	E	Е	G	Х	E	Е	С	Е	Е
NAPHTHALENE	Χ	С	Χ	Χ	С	Χ	Χ	Χ	G	Χ	С	E	Е	G	Е	Е
NAPTHENIC ACIDS	_	Е	X	X		X	X	G		X		E		_	E	
N-BUTYLAMINE	G X		G C	C X		X	C X	X		Χ		E E		C X	X	
N-BUTYLBENZENE	^		U	X		X	^	X		^		E		^	E	Е
N-BUTYLBROMIDE	Х			X		X		X				E			G	G
N-BUTYLBUTYRATE	Е		Е	Χ		Х	Х	Х		Χ		Е			Е	G
N-BUTYLCARBINOL	E	Е	Е	E	Е	E	Е	G	Е	Е	Е	E		Χ	E	
NEOHEXANE	Χ			Χ		Χ		Е				Е			Е	Е



^{*} compounds not in catalogue. Ask Parker for right solution

							d)							4		
Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
NEONICAC			F	F					Г	_	_	F			F	
NEON GAS NEU-TRI	E X		Е	E X		E X	Е	E X	Е	Е	Е	E E		Е	E E	Е
NICKEL ACETATE	E		Е	X		E	G	G		Х		E	Е	Х	X	E
NICKEL CHLORIDE	Е	Χ	E	Е	С	E	G	E	С	E		E	E	С	Ε	E
NICKEL NITRATE	Е		Е	Е		Е	Е	Е				Е	Е		Е	Е
NICKEL SULFATE	Е	Χ	Е	Е	С	G	Е	Ε	С	G		Е	Е	С	Е	Е
NIETYLENE						Ε										
NITRIC ACID, 10 %	Е	Χ	Е	G	С	Χ	G	Χ	С	Χ	Е	Е	Е	Χ	Χ	С
NITRIC ACID, 13N	X	X	X	X	X	Х	X	X	X	Х		E		Х		
NITRIC ACID, 13N + 5 %	X	X	X	X	X	X	X	X	X	X		E	_	X	_	_
NITRIC ACID, UP TO 25 %	G	X	E	G	X	X	X	X	X	X		E	E	X	С	E
NITRIC ACID, 25 % – 40 % NITRIC ACID, 40 % – 60 %	C	X	G X	C X	X	X	X	X	X	X		E E	G C	X	C	G C
NITRIC ACID, 40 % – 60 % NITRIC ACID, CONC (16N)	X	X	X	X	X	X	X	X	X	X	Х	E	E	X	E	G
NITRIC ACID, RED FUMING	C	X	X	X	X	X	X	X	X	X	X	E	X	X	С	X
NITRILOTRIETHANOL	G	^	E	E	X	G	X	C	^	G	^	E	^	X	Х	
NITROBENZENE	G	С	X	X	X	X	Х	Х	С	X		E	Е	X	C	Е
NITROETHANE	G		G	C	, ,	G	C	X	Ū	G	Е	E	E	X	X	E
NITROGEN	Е		E	E		E	E	E		E	=	E	E	E	E	E
NITROMETHANE	G		G	С	С	G	Χ	Χ		С		Е	Е	Χ	Χ	Е
NITROPROPANE			G										Е			
NITROUS OXIDE GAS	Е		Ε	Е		Е	G	Е	С			Е	Е	G	Е	
N-NONYL ALCOHOL	Е			Ε		Е		Е				Е			G	
N-OCTANE	Χ		Χ	Χ		Χ	С	Е		Χ		Е	G	Χ	Е	G
NONANOIC ACID	Е			Χ		Χ		Е				Е				
NONANOL	Е			Е		Е		Е				Е			G	
N-SERV (75 % XYLENE)									Ε			Е			Е	С
NUTO H			Χ					Е	Е			Е				
NYVAC LIGHT			Е					Х	Е			Е				
O-AMINOTOLUENE		G														
OCTANOIC ACID	С			G		С	_	С		_		E			_	
OCTANOL	G		Е	G		G	G	G		G		E	E	Χ	E	Е
OCTYL ACETATE	E		0	E		X	0	X		0		E	E E	V	X	_
OCTYL ALCOHOL OCTYL ALDEHYDE	G C		G	G X		G X	G	G X		G		E E	E	Х	G X	E E
OCTYL AMINE	E			C		C		C				E			X	С
OCTYL CARBINOL	E			E		E		E				E			G	E
OCTYLENE GLYCOL	E			E		E		E				E			E	С
OIL-PETROLEUM	X	G	Х	G	Е	X	G	E	G	Х	С	E	Е	G	E	E
OLEIC ACID	X	X	C	G	E	X	C	E	E	X	Ü	E	E	G	E	E
OLEUM (FUMING SULFURIC ACID)	X	X	X	X	X	Х	Х	X	X	Х		E	X	X	G	X
OLIVE OIL	G		G	G		Х	G	E	E	Χ		E	G	Е	E	С
ORTHO-DICHLOROBENZENE	Х		Χ	Χ	Χ	Х	Χ	Х	Е	Χ	Χ	Ε		Χ	Е	
ORTHO-DICHLOROBENZOL	Χ		Χ	Χ	Χ	Χ	Χ	Χ	Е	Χ	Χ	Ε		Χ	Е	G
ORTHOXYLENE	Χ	С	С	Χ	С	Χ	Χ	Χ	G	Χ	Χ	Ε		Χ	Е	Е
OXALIC ACID	Е	Χ	Ε	Е	Χ	С	G	G	G	G	Ε	Ε	Ε	С	Е	С
OXYDIETHANOL		Ε														
OXYGEN COLD			Е				Е						Е		Е	
OZONE	G		Е	Е	С	Х	С	Х	С	Χ		E	С	Е	Е	С
PAINT THINNER	Χ		Χ	Χ		Χ	Х	Х	G	Χ		Е	Е	Х	G	Е
PALM OIL		_	_	_	_	_	_		_	_	_	_	E	_	E	
PALMITIC ACID	G	G	G	С	Е	E	G	E	С	В	Е	E	E	Е	E	G
PAPA METHOW/PROPENIAL PENZENE	E	V		E		E	Е	Е	_			E	G		E	
PARA METHOXYPROPENYL BENZENE	X	Х	V	X		X	V	V	G	V		E		V	G	0
PARA-DICHLOROBENZENE PARAFFIN WAX	X		X	X		X	X	X E		X E		Е	Е	X G	E E	G X
PARALDEHYDE	E		E	X		X	G C	C		С		Е	С	G	X	E
PARAXYLENE	X		X	X		X	X	С				E		С	E	E
PCB	^		^	^		^	^	U				E		U	E	
P-CYMENE	Х	Х	Х	Х		Х	Х	Х		Х		E	Е	Х	E	Е
PELARGONIC ALCOHOL	E	^	Λ	E		E	Λ.	E		Λ.		E	_	^	G	E
	X			X		X	Х	X				E			E	E
PENTACHLOROETHANE	/ \			/\		, (^	/\				_			_	_
PENTACHLOROETHANE PENTADIONE		G														
PENTADIONE	X	G	Χ	Χ		X	F	G				F			E	
	X	G	X	X	G	X	E C	G E	G	X		E E	G	С	E E	G



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 $[\]ensuremath{^*}$ compounds not in catalogue. Ask Parker for right solution

Chemical or Material	E	щ	M	Σ	ᇦ	ıral	Neoprene	ile	uo	Œ	>	W.	MN.	ane	Σ	뿐
Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Veop	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
PENTANONE	G		G	Χ		Χ	X	X				Е			Χ	E
PENTASOL	Е		Е	Е		Е	Е	G		G		Е		Χ	G	Е
PENTYL ACETATE	G		Ε	Χ	С	Χ	Χ	Χ	G	Χ	Χ	Ε		Χ		
PENTYL ALCOHOL	Е	Е	Е	Е	Е	Е	Е	G	Е	Е	Е	Е		Χ	Е	
PENTYL BROMIDE		_										E		_	G	
PENTYL CHLORIDE	Χ	С	Χ	X		Χ	Χ		Е	Χ		E		С	Е	G
PENTYL AMINE	0		V	С			Х	С				E E			Χ	
PENTYLAMINE PERCHLORIC ACID-2N	G G		X G	C G	Χ	C X	G	C X	Х	Χ	Χ	E		Х	E	Е
PERCHLOROETHYLENE	X	С	X	X	X	X	X	C	Ĉ	X	X	E	G	X	E	G
PERCHLOROMETHANE	X	O				X	X	Х	O			E	a	^	_	a
PETROLEUM CRUDE	X		Χ	G	С	X	G	E	G	Х		E	Е	Е	Е	Е
PETROLEUM ETHER	Х		Χ	Χ		Х	С	Е	E	Х		Е		G	E	E
PETROLEUM OILS	Χ	G	Χ	G	Е	Χ	G	Е	G	Χ	С	Е	Е	G	Е	Е
PHENBO													Е	Χ		
PHENOL	G			Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Ε	Е	Χ	Ε	Ε
PHENOLSULFONIC ACID	С			Χ		Χ		Χ				Ε	G	G	Χ	G
PHENYLAMINE	Е		G	Χ		Χ	Χ	Χ				Е		С	Е	
PHENYLBROMIDE	Х	_	Χ	Х		Χ	Х	Х				Е		Х	G	
PHENYLBUTANE	.,	С										_			_	_
PHENYLCHLORIDE	X		X	X	V	X	X	X		V		E		X	E	Е
PHENYLETHYLENE DUENNY METHANIC			X	X	Х	X	X	X		Х		E E		C X	G	
PHENYLMETHANE PHENYLMETHANOL	X G		X G	X G	С	X	X	X	С	X	Х	E	Е	X	E E	Е
PHENYLMETHYL ACETATE	E		G	G	C	X	^	^	C	^	^	E	E	^	X	E
PHOSPAHTE ESTERS	E	G	Е	X	С	X	Х	Х	Е	Χ	Е	E	_	Х	C	
PHOSPHORIC ACID 10 %	G	X	E	E	Ū	, ,	E	E	E	G	E	E	Е	E	Ē	Е
PHOSPHORIC ACID 10 % – 85 %	G	Χ	Е	Е	Χ	G	Е	Χ	С	G		Е	Е	С	E	Е
PHOSPHORUS TRICHLORIDE ACID	Е		Е	Χ		Χ	Χ	Х		Х		Е			Е	
PHTALIC ANHYDRIDE			Е				Е								Е	
PICRIC ACID, H2O SOLUTION	С	Χ	С	Е	Χ	С	С	С	Χ	G	Χ	С		G	Е	
PINE OIL	Χ		Χ	Χ		Χ	Χ	G		Χ		Е	Е	Е	Е	Е
PINENE	Х		Х	Χ		Х	Χ	G		Χ		E	E	G	E	E
POLY CHLORINATED BIPHENOL	_	_		_		_				_		E	_		E	
POLYETHYLENE GLYCOL E-400	Е	Е		Е	V	Е	0		0	E			Е	V	Е	
POLYOL ESTER POLYPROPYLENE GLYCOL	Е			Е	Х	Е	G	Е	G			Е		Х	Е	
POLYVINYL ACETATE EMULSION (PVA)			Е				G						В		X	
POTASSIUM ACETATE	Е		E	С		Е	G	G	G	Х		Е	E	Х	C	Е
POTASSIUM BICARBONATE	_		E			_	E	G	G	/\		_	E	, ,	E	
POTASSIUM BISULFATE	Е		E	Е		Е	E	Е	G	G		Е	E		E	Е
POTASSIUM BISULFITE	Е		Е	Е		Е	Е	Е	G	G		Е	Е	Е	Е	
POTASSIUM CARBONATE	Е		Е	Е	Χ	Е	Ε	Ε	С	Е		Ε	Е	С	Е	Ε
POTASSIUM CHLORIDE	Е	G	Е	Е	G	Ε	Ε	Ε	Е	Ε		Ε	Е	Ε	Ε	
POTASSIUM CHROMATE	G		Е	С		G	Е	Е	G	G		Е	G	G	Е	G
POTASSIUM CYANIDE	Е	G	Е	Е	G	Е	G	Е	Е	Е		Е	Е	Е	Е	Е
POTASSIUM DICHROMATE	E	Χ	E	E		С	E	E	G	G		E	G	G	E	G
POTASSIUM HYDRATE	E	V	G	E	_	G	G	G	G	G	^	E	_	G	С	Е
POTASSIUM HYDROXIDE	G	Х	E	E E	С	G	G E	G	G	G E	G	E E	G	C E	G E	E E
POTASSIUM NITRATE POTASSIUM PERMANGANATE 5 %	E E		E E	G	G X	E E	E	E C	G X	G		E	E E	X	E	E
POTASSIUM SILICATE	E		E	E	٨	E	E	E	G	E		E		E	E	Е
POTASSIUM SULFATE	E		E	E	G	E	E	E	E	G		E	Е	E	E	E
POTASSIUM SULFIDE	E		E	E	J	G	E	E	E	G		E	E	E	E	_
POTASSIUM SULFITE	E		E	E		G	E	E	E	G		E	_	E	E	Е
PRESTONE ANTIFREEZE	E	G	E	E	G	E	С	E	G	E	Е	E		X	E	
PRODUCER GAS	Х		Χ	G		Х	G	Е		Х		Е		Е	Е	
PROPANEDIOL	С		Е	Е		Е	С	Е		Е		Е		G	Е	
PROPANETRIOL	Е	Е	Е	Е	Е	E	Е	Е	G	Е	Χ	Е		С	Е	
PROPANOL	Е		Е	Е		Е	Е	Е		Е	Е	Е		Χ	Е	Е
PROPANOLAMINE		Е														
PROPANONE	Е	G	E	X	С	С	X	X	Е	С	Е	E	_	Χ	X	_
PROPENIEDIA MENIE	Е	_	Е	Е		E	Е	Е				Е	Е		G	Е
PROPENEDIAMENE DEODENIENITRII E	V	Е				0	V	V				Г				
PROPENENITRILE PROPENYL ALCOHOL	X E		Е	Е		G E	X E	X E				E E	Е		G	Е
THOI LIVE ALOUI IOL												Ľ			G	

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 $E = excellent; \ G = good; \ C = conditional; \ X = unsatisfactory$



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^{*} compounds not in catalogue. Ask Parker for right solution

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Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	UHMW	Urethane	FKM	XLPE
PROPENYLANISOLE	Х			Χ		Х	_	X				Е			G	
PROPIONIC ACID	Е		Е	G		Е	С	С		Х		Е		Χ	Χ	Е
PROPIONITRILE	Е		Е			Е	G	Χ			Χ	Е			Χ	
PROPYL ACETATE	G		E	X		X	X	X		X	_	E	E	X	X	E
PROPYL ALCOHOL PROPYL ALDEHYDE	E G		Е	E X		E C	Е	E X		Е	Е	E	E E	Х	E X	E E
PROPYL BENZENE	G	С		^		U		^							^	
PROPYL CHLORIDE	С			Χ		Χ		Χ				Е	Е		G	Е
PROPYL ETHER		Е														
PROPYL NITRATE	G		G	Χ		Χ	Χ	Χ		Χ		Е		Χ	Χ	
PROPYLENE	X		Χ	Χ		X	Χ	Х		Х		Е		Χ	Е	
PROPYLENE DIAMINE	Е			С		G		G				Е	0		_	
PROPYLENE DICHLORIDE PROPYLENE GLYCOL	С		Е	Е		Е	С	Е		Е		Е	C E	G	E E	
PYDRAUL, 'E' SERIES	G		G	X	G	X	X	X	G	X		E	E	X	E	Е
PYDRAULIC 'C'	X		X	X	С	X	X	X	E	X	Е	E	<u> </u>	X	E	<u> </u>
PYRIDINE	, ,		G	, ,		, ,	,,	, ,	_	,,	_	_	С	,,	_	
PYROLIGNEOUS ACID			G										G		В	
RESIN OIL							Х						В		Е	
QUINTOLUBRIC 822 SERIES	Χ		Χ			Χ	Χ	G							G	
RED OIL	X	Х	С	G	E	X	С	E	Е	X		Е		G	E	
REFRIGERANT 11	X		X	E	E	X	X	G		X		E		С	С	_
REFRIGERANT 12 REFRIGERANT 22	C	C	C E	E E	E X	C	E	E X	G G	E E	X	E		E X	G C	C
RESORCINOL	^	C	G		X	C	X	^	X	G	X	E		X	E	C
SAE NO. 10 OIL	Х	G	X	Χ	E	Х	C	Е	E	X	X	E		E	E	
SAL AMMONIAC	E	G	E	E	E	E	Ē	E	C	E	, ,	E		G	E	
SEA WATER	Е		Е	Е	Е	Е	G	Е	Е	Е	Е	Е	Е	С	Е	Е
SEWAGE	G		Е	Е	G	G	G	Е	Е	G	G	Е	Е	Χ	Е	Е
SILICATE ESTERS	С		Χ	G	С	Χ	Е	G	G	Χ		Е		Е	Е	
SILICATE OF SODA	E		E	E		E	E	E		_		E		_	E	Е
SILICONE GREASE	E		Е	E E	E G	E	E	E E	E E	E E		E E	Е	E	E E	
SILICONE OIL SILVER NITRATE	E		E E	E	G	C E	E	G	E	E		E	E	E E	E	Е
SKYDROL 500 TYPE 2	G	G	E	X	G	X	X	Х	G	X	Е	E	_	X	X	_
SKYDROL 500B	G	G	E	Χ	E		Х		E		E	Е		С	Χ	
SKYDROL 500C	G	G		Х	Е		Х					Е			Χ	
SKYDROL 7000 TYPE 2	Е	G	Е	Χ	Χ	Χ	Χ	Χ	Ε	Χ		Е		Χ	G	
SOAP SOLUTIONS	G	G	E	E	Е	G	G	Е	Е	G	Е	Е	Е	Е	Е	E
SODA ASH	E	G	E	E	G	E	E	E	G	Е		E	E	G	E	Е
SODA NITER	E	G	E E	G E	G	E G	G G	G G	Е	G		E	E	C G	G E	E E
SODA, CAUSTIC	E	C	E	E	С	G	E	C	G	E	С	E	Е	G	X	E
SODIUM ACETATE	E		E	С		E	G	G	G	X	J	E	E	X	X	E
SODIUM ALUMINATE	Е		Е	Е		G	Е	Е	G	G		Е	Е		Е	Е
SODIUM BICARBONATE	Е		Е	Е	G	Е	Е	Е	Е	Е		Е	Е	Е	Е	Е
SODIUM BISULFATE	Е	Х	Е	Е	С	Е	Е	G	С	G		Е	Е	Е	Е	Е
SODIUM BISULFITE	E		E	E	G	E	E	E	E	G		E	E	E	E	С
SODIUM BORATE SODIUM CARBONATE 10 % – 15 %	E G	G	E E	E E	G G	E E	E	E E	E G	E E		E	E E	G G	E E	E E
SODIUM CHLORATE	G	G	E		G				G					G	E	
SODIUM CHLORIDE	G	G	E	Е	Е	Е	Е	Е	G	Е	С	Е	Е	Е	E	Е
SODIUM CYANIDE	E	G	E	E	G	E	E	E	E	E		E	E	G	E	E
SODIUM DICHROMATE	E		С	G		X	С	E	G	G		Е	E	G	С	G
SODIUM FLUORIDE			Е				Е						С		Е	
SODIUM HYDRATE	Е		Е	G		Е	G	G	G	G		E		С	G	Е
SODIUM HYDROCHLORITE	G	_	G	E	_	С	С	С	G	G	_	E	_	С	E	G
SODIUM HYDROXIDE (CAUSTIC SODA)	E	C	E	E	С	E	G	C	G	G	С	E	E	С	С	E
SODIUM HYPOCHLORITE SODIUM METAPHOSPHATE	G	Х	G E	G G	С	X E	C G	X E	X E	C E	С	E E	E E	C G	C E	G E
SODIUM NITRATE	E	G	E	E	G	G	G	G	E	G		E	E	G	E	E
SODIUM PERBORATE	E	X	E	G	G	G	G	G	E	G		E	E	G	E	E
SODIUM PEROXIDE	E	X	E	G	G	G	G	G	X	G		E	E	X	E	E
SODIUM PHOSPHATE	Е		Е	Е	G	Е	С	Е	С	Е		Е	Е	Е	Е	Е
SODIUM SILICATE	Е	G	E	E	G	Е	E	Е	Е	Е		Е	E	G	E	
SODIUM SULFATE	Е	G	Е	Е	G	G	Е	Е	Е	G		Е	Е	Е	Е	Е



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 $[\]ensuremath{^*}$ compounds not in catalogue. Ask Parker for right solution

SODIUM SULFIDE		н н н н н н н н н н н н н н н н н н н	E E E E E E E E E E E E E E E E E E E	E E E E E E E E E E E E E E E E E E E		E	G G X E E G X	E E G E C C E E	E E E E E X	E E E C C	G G E X G E	G	E E E	E E E	G	E E	Conveyed SODIUM SULFIDE
SODIUM SULFITE			E	E			G X E E G X X	E G E C C E E	E E E E X	E E C C C	G E X G E	G	E E E	E E		Е	
SODILM THIOSULFATE			E	E			G X E E G X X	G E C C E E	E E E E X	E C E G C	E X G E		E E	Е	0		SODILIM SUI FITE
SOMERAN OIL			G E E E E G E E E E E E E E E E E E E E	E E E G X X X E E	E E E E E E E E		X E E G X X	E C C E	E E E E X	E C E G C	X G E		Е		0	E	
STANNIC CHLORIDE			G E E E E E E E E E E E E E E E E E E E	E E G X X X E E	E E E E E		E G X X	C C E E	E E E E X	C E G C	G E E			Х			
STANNOLS CHLIPIDE			C E E E G C G G E E C C X E E X E X E X G G	E E G X X E E E	E E E E E E E		E G X X	C E E	E E E E	E G C	E E	Gi	(:				
STANNOUS CHLORIDE			E	E E G X X X E E	E E E E E E E		G X X	E	E E E X	G C	Ε			E	Х		
STANNOUS SULFIDE			E	E E G X X E E E	E E E E E E		G X X	E	E E E X	G C		G		C			
STEARIC ACID G	E		G E E C C X E X E X E X G G	E E E X X X E E	E E E E E		X X X	E	E E X	С	_	G		C			
STODDARD SOLVENT			G E E C C X E X E X E X G G	E E E X X X E E	E E E E E		X X X	E	E X	С	С	G		G	G		
STYRENE MONOMER			X E G G E G C X E X E X E X G	E G X X E E	E E E E		X								-		
SULFUR	S	G E E C E E E G	G E C C X E X E X E X G	E G X X E	E E E		Χ		С	Χ		Χ	Χ				STYRENE MONOMER
SULFUR CHLORIDE	E	E E C E E E G	C E E G E C X E X E X E X G	E G X X E	E E E		Χ		-	G	G		Е	Χ		Е	SULFAMIC ACID
SULFUR DIOXIDE SULFUR TRIOXIDE, DRY G G G G C X X X X X X X E E X G E SULFURIC ACID 60 % +93 °C (+200 °F) X X X X X X X X X X X X X X X X X X X		E C E E G G	G E C C X E X E X E X G	G X X E E	E E												
SULFUR TRIOXIDE, DRY SULFURIC ACID 60 % +93 °C (+200 °F) X X X X X X X X X X X X X X X X X X X		E C E E G G	G E C X E X E X E X G	X X E E	Е										G		
SULFURIC ACID 60 % +93 °C (+200 °F)		C E E G G	X E X E X E X G	X E E				Х									
SULFURIC ACID, 25 %	E E E E E E E E E E E E E E E E E E E	E E G G	X E X E X G	E E	_			V			C		C		V/		
SULFURIC ACID, 25 % - 50 % SULFURIC ACID, 50 % - 96 % XX XX G C XX XX C C XX XX E E E XX E SULFURIC ACID, CONC. 96 % - 98 % XX		E E G	X E X G	Е		E					G		E				,
SULFURIC ACID, 50 % - 96 % X X G C X X C C X X E E X E E X E SULFURIC ACID, CONC. 96 % - 98 % X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X		E G G	X E														
SULFURIC ACID, CONC. 96 % – 98 % X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X <		G G	X G														,
SULFURIC ACID, FUMING X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X		G														1	•
SULFUROUS ACID, 10 % - 85 % E X G E C G C C X C E E X C SUTAN E E X C E X C E X C E X E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E <t< td=""><td>6 E E (</td><td>F</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	6 E E (F		X													
SUTAN X X X X C X C E X E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E <td>= E</td> <td></td> <td>Е</td> <td>E</td> <td></td> <td></td> <td>G</td> <td>С</td> <td>С</td> <td>G</td> <td>G</td> <td>С</td> <td>E</td> <td>Ε</td> <td>Χ</td> <td>E</td> <td></td>	= E		Е	E			G	С	С	G	G	С	E	Ε	Χ	E	
TALL OIL X X X C X C E X E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E E<	_ (G	X G	Е	Е		С	Χ	С	С	G	С	Е	G	Χ	Е	SULFUROUS ACID, 10 % – 85 %
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TRIETHYLAMINE C E G G E X E X E		Е	X X				<u> </u>										



 $[\]ensuremath{^*}$ compounds not in catalogue. Ask Parker for right solution

Chemical or Material Conveyed	Butyl	CPE	EPDM	CSM	TPC-ET	Natural	Neoprene	Nitrile	Nylon	SBR	TPV	PTFE	ОНММ	Urethane	FKM	XLPE
TRIETHYLENE GLYCOL	E			E		E		Е				Е			E	
TRIHYDROXYBENZOIC ACID	G		G	G	Х	E	G	G	G	G		E		Х	E	
TRIMETHYL PENTANES (MIXED)	X	Е	X	С	E	X	C	E	E	Х	Х	E		G	E	
TRIMETHYL PENTENE		E	/\	U			U							G		
TRIMETHYLAMINE		E										Е	Е			Е
TRINITROTOLUENE (TNT)		<u> </u>					G						<u> </u>		G	_
TRISODIUM PHOSPHATE	Е		Е	Е	Е	Е	E	Е	Е	Е		Е		Е	E	Е
TRITOYL PHOSPHATE	E		E	X	С	X	X	X	G	X		E		X	E	_
TUNG OIL	X	С	X	E	G	X	E	E	G	X		E	Е	C	E	Е
TUNG OIL (CHINA OIL)	C	С	X	E	G	X	E	E	G	X		E	E	C	E	E
TURBINE OIL	C	C	X		G	^	C		G	^			В	C	E	
TURPENTINEX	Х	G	X	Х		Х	X	Х	Е	Х	Х	Е	G	Е	E	G
UDMH	E	G	E	E		E	G	G		X	^	E	G	X	X	G
	E					E	G	E		^		E		^		
UNDECYL ALCOHOL	E		г	E	0		0		_			E	_	0	G	_
UREA	<u> </u>		Е	Е	G	Е	G	G	E				Е	G	Е	Е
URETHANE FORMULATIONS	-							Е	E		_	E				
URIC ACID		_			Х			_	G		Е	E		X	_	
VARNISH	X	С	X	X		X	X	G	Е	X		E		С	E	_
VEGETABLE OILS	С		С	G		Х	С	Е	G	Х		Е	Е	Е	Е	Е
VERSILUBE F44	Е		Е	Е		Е	Е	Е	Е	Е		Е		Е	Е	
VERSILUBE F55	Е		Χ	Ε		Е	Е	E	Е	Е		Е		Е	Е	
VINEGAR	Е		Е	Е	С	G	G	G	Е	G		Е	Χ	С	Е	Χ
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VINYL ACETATE	Е		G	С		Χ	Χ	Χ		Χ		Χ	Е	Χ	Е	Е
VINYL BENZENE	Х		Χ	Χ	Χ	Χ	Χ	Χ		Χ		Е	Ε	С	G	G
VINYL CHLORIDE (GAS)	Х		G			G						Е	Е			Е
VINYL CYANIDE	X	Е	Χ	С		С	С	Χ	Ε	С	Χ	Е		Χ	С	
VINYL ETHER	X			G		Χ		G				Е	Ε		Χ	Е
VINYL STYRENE	X			Χ		Χ				Χ		Ε	Ε		Ε	Е
VINYL TOLUENE	X			Χ		Χ		Χ				Е	Ε		Ε	Ε
VINYL TRICHLORIDE	X			Χ		Χ	Χ	Χ				Е	Ε		Ε	Е
VITAL, 4300, 5310			Χ					Χ	Е			Е				
VM&P NAPHTHA	X		Χ	Χ		Χ	С	С				Ε			Ε	Χ
WATER	Е	G	Ε	Е	Е	Е	G	Е	Ε	G	Ε	Е	Ε	Ε	Е	Е
WATER, BOILING	Е		Е	Е	С		G	G	Χ	G	G	G	Χ	G	G	Χ
WATER, SODA					Е				Е		Е	Е				
WEMCO C	Х		Х	Х		Х	G	Е		Χ				Е	Е	
WHISKEY	Е		Е	Е	G	Е	E	Е	Е	Е		Е	Χ	Χ	Е	Χ
WHITE OIL	X		X	X		X	G	E		X		E	Е	E	E	Χ
WHITE PINE OIL	X		Χ	Χ		X	X	G		Х		_	_	_	F	
WINES	E		E	E	G	E	E	E	Е	E		Е	Х	Х	E	Х
WOOD ALCOHOL	E		E	E	G	E	E	E	_	E		E	E	X	С	E
WOOD OIL	C		X	С	G	X	G	E	G	X		E	E	Ĉ	E	E
XENON	E		E	E	u	E	E	E	u	E		E	_	E	E	_
XYLENE, XYLOL	X	С	X	X	С	X	X	X	G	X	Х	E	С	C	E	С
XYLIDINE XYLIDINE	G	U	C	X	U	X		C	G	X	^	E	G	U	С	G
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ZEOLITES ZINO A OFTATE	E		Е	E		E	E	E		E		_		\ <u>'</u>	E	
ZINC ACETATE	Е		E	С		E	G	G		Х		Е	Е	X	С	Е
ZINC CARBONATE	E	\ \	E	E	_	E	E	E	_	_		E	E	E	E	E
ZINC CHLORIDE	E	Χ	Е	E	Е	Е	Е	Е	Е	Е		E	Е	G	Е	E
ZINC CHROMATE	E		_	С		_		_				E			_	G
ZINC SULFATE	Е	Χ	Е	Е	С	Е	Е	Е	X	G		Е	Е	G	Е	Е

 $\mathsf{E} = \mathsf{excellent}; \ \mathsf{G} = \mathsf{good}; \ \mathsf{C} = \mathsf{conditional}; \ \mathsf{X} = \mathsf{unsatisfactory}$



 $^{^{\}ast}$ compounds not in catalogue. Ask Parker for right solution

Chemical Resistance Guide for Silicone Hose

Chemical	*	Chemical	*	Chemical	*
Acetic acid, dilute, 10%	В	Isobutyl alcohol	А	Nitrobenzene	С
Acetic acid glacial	C	Isopropyl alcohol	Α	Oleic acid	X
Acetic acid anhydride	Ī	Isooctane	X	Oleum	I
Acetone	X	Kerosene	X	Oxalic acid	В
Acetylene	C	Lacquers	X	Oxygen	X
Air 68 °F (20 °C)	A	Lacquers solvents	X	Palmitic acid	X
Air 150 °F (65 °C)	A	Lactic acid	A	Perchlorethylene	Ĉ
Aluminum chloride 150 °F (65 °C)	A	Linseed oil	A	Petroleum oils and crude 200 °F (95 °C)	X
Aluminum fluoride 150 °F (65 °C)	В	Lubricating oil, crude	C	Phosphoric acid, crude	C
` '	A	g ,	_		C
Aluminum sulfate 150 °F (65 °C)		Lubricating oil, refined	C	Phosphoric acid, pure 45%	X
Alums 150 °F (65 °C)	Α	Magnesium chloride 150 °F (65 °C)		Picric acid, molten	
Ammonia gas, anhydrous	1	Magnesium hydroxide 150 °F (65 °C)	В	Picric acid, water solution	I
Ammonia 10%water solution	A	Magnesium sulfate 150 °F (65 °C)	A	Potassium chlorite	A
Ammonia 30%water solution	С	Mercuric chloride	Α	Potassium cyanide	Α
Ammonium chloride	С	Mercury	Α	Potassium hydroxide	С
Ammonium hydroxide	С	Methyl alcohol, methanol	Α	Potassium sulfate	Α
Ammonium nitrate	Α	Methyl chloride	X	Propane	Χ
Ammonium phosphate monobasic	Α	Calcium chloride	Α	Sewage	В
Ammonium phosphate dibasic	Α	Calcium hydroxide	Α	Soap solution	Α
Ammonium phosphate tribasic	Α	Calcium hypochlorite	С	Soda ash, sodium carbonate	Α
Ammonium sulfate	Α	Caliche liquors	В	Sodium bicarbonate, baking soda	Α
Amyl acetate	X	Cane sugar liquors	Α	Sodium bisulfate	Α
Amyl alcohol	Χ	Carbolic acid, phenol	Χ	Sodium chloride	Α
Aniline, Aniline oil	X	Carbon dioxide, dry-wet	Α	Sodium cyanide	Α
Aniline, dyes	Χ	Carbon disulfide	X	Sodium hydroxide to 50% at 140 °F	Α
Asphalt	Î	Carbon monoxide 140 °F (60 °C)	A	Sodium hypochlorite	В
Barium chloride 150 °F (65 °C)	A	Carbon tetrachloride	X	Sodium metaphosphate	A
Barium hydroxide 150 °F (65 °C)	A	Castor oil	A	Sodium nitrate	X
Barium sulfide 150 °F (65 °C)	A	Cellosolve acetate	X	Sodium perborate	В
	A	CFC-12	1	·	С
Beer Beet euger liguers				Sodium peroxide	\ \
Beet sugar liquors	A	China wood oil, tung oil	X	Sodium phosphate, monobasic	X
Benzene, Benzol	X	Chlorine, dry/wet	X	Sodium phosphate, dibasic	X
Benzine, petroleum ether	X	Chlorinated solvents	X	Sodium phosphate, tribasic	X
Benzine, petroleum naphtha	X	Chloroacetic acid	1	Sodium silicate	Α
Black sulfate liquor	Α	Chlorosulfonic acid	X	Sodium sulfate	Α
Blast furnace gas	Α	Chromic acid	С	Sodium sulfide	Α
Borax	В	Citric acid	Α	Sodium thiosulfate, hypo	I
Boric acid	Α	Coke oven gas	В	Soybean oil	Α
Bromine	Χ	Copper chloride 150 °F (65 °C)	Α	Stannic chloride	В
Butane	X	Copper sulfate 150 °F (65 °C)	Α	Steam 450 °F (230 °C)	1
Butyl acetate	Χ	Corn oil	Α	Stearic acid	Α
Butyl alcohol, Butanol	С	Cottonseed oil	Α	Sulfur	В
Calcium bisulfate	С	Creosote, coal tar	С	Sulfur chloride	С
Formaldehyde	В	Creosote, coal tar wood	Χ	Sulfur dioxide, dry	В
Formic acid	С	Creosols, cresylic acid		Sulfur trioxide, dry	В
Fuel oil	X	Dichlorobenzene	X	Sulfuric acid, 10%	Х
Furfural	X	Dichloroethylene	X	Sulfuric acid, 11% - 75%	X
Gasoline, unleaded	X	Diesel fuel	X	Sulfuric acid, 76% - 95%	X
Gasoline + MTBE	X	Diethanolamine 20%	X	Sulfuric acid, fuming	X
Gasoline + MTBE	X	Diethylamine	В	Sulfurous acid	X
	1		I		В
Gelatin	A	Diisopropylamine		Tannic acid	
Glucose	A	Dioctylphthalate	X	Tar	В
Glue	Α	Ethers	X	Tartaric acid	A
Glycerine, glycerol	Α	Ethyl acetate	В	Toluene, Toluol	X
Green sulfate liquor	Α	Ethyl alcohol	Α	Trichloroethylene	Χ
HFC-134	- 1	Ethyl cellulose	С	Turpentine	X
Hydraulic fluids: Petroleum	С	Ethyl chloride	С	Urea, water solution	Α
Hydraulic fluids: Phosphate ester alkyl	X	Ethyl glycol	Α	Vinegar	Α
Hydraulic fluids: Phosphate ester aryl	Χ	Ferric chloride 150 °F (65 °C)	Α	Vinyl acetate	X
Hydraulic fluids: Phosphate ester blends	X	Ferric sulfate 150 °F (65 °C)	В	Water, acid mine	Α
Hydraulic fluids: Silicate ester	Χ	Methyl ethyl ketone	X	Water, fresh	Α
Hydraulic fluids: Water glycol	Α	Methyl isopropyl ketone	С	Water, distilled	Α
Hydrobromic acid	Χ	Milk	A	Whiskey and wines	Α
Hydrochloric acid	X	MTBE	i	Xylene, xylol	X
Hydrocyanic acid	В	Mineral oils	A	Zinc chloride	A
Hydrofluoric acid	X	Natural gas	C	Zinc chloride Zinc sulfate	A
Hydrofluosilicic acid	1	Nickel chloride 150 °F (65 °C)	A	Zii io dallato	\wedge
*	C	Nickel sulfate 150 °F (65 °C)		* Resis	tance
Hydrogon goe 140 °E (60 °C)		INICKEI SUIIALE TOU F (00 U)	A	110313	
Hydrogen gas 140 °F (60 °C)		` '	V	Δ - Good Res	sistance
Hydrogen gas 140 °F (60 °C) Hydrogen peroxide Hydrogen sulfide, dry	A X	Nitric acid, crude Nitric acid, diluted 10%	X	A = Good Res B = Fair Res	



Chemical Resistance Guide for PU Flat Hose

Chemical	Resistance
Acetone	Х
Ammonium Hydroxide	X
Amyl Acetate	С
Benzene	Χ
Benzyl Alcohol	Χ
Butyl Acetate	G
Butyl Alcohol	G
Butyl Stearate	F
Caltium Chloride	G
Caltium Nitrate	G
Carbon Tetrachloride	Χ
Chlorobenzene	Χ
Chloroform	Χ
Cresols	Χ
Chlorox	С
Detergents (Non-hydrocarbon)	G
Diacelone Alcohol	Χ
Diesel Oil	G
Diethylene Glycol, cold	G
Ethyl Alcohol, (Ethanol) cold	G
Ethyl Ether	С
Ehylene Dichloride	Χ
Freon 113	G
Fuel Oil	F
Fuel Oil Acid	С
Gasoline (Sour or refined)	G
Glue	G
Grease	G
Hydrochloric Acid (Hot) 37 %	X
Hydrochloric Acid (Cold) 37 %	X
Hydrogen Gas	G

Chemical	Resistance
Hydrogen Peroxide 90 %	С
Hydrogen Peroxide 30 %	G
Kerosene	G
Methyl Alcohol	С
Methyl Ethyl Ketone (MEK)	Χ
Mineral Oil	G
Naphtha	F
Nitric Acid	Χ
Petroleum, Crude	G
Phenol (Carbolic Acid)	С
Phosphoric Acid (Grude)	Χ
Phosphorit Acid 45%	Χ
Potassium Hydroxide	С
Propyl Alcohol	С
Sodium Chloride	F
Sodium Hydroxide (Caustic Soda)	С
Sodium Nitrate	G
Sodium Phosphate	Χ
Sodium Silicate	G
Sulphuric Acid 10 %	С
Sulphuric Acid 11-75 %	С
Sulphuric Acid 76-95 %	С
Toluene (Toluol)	Χ
Trichloroethylene	С
Tricresyl Phosphate	Χ
Vegetable Oils	G
Water, Fresh	G
Water, Sea	G
Zint Chloride, Dry	G
Zint Sulphate, Dry	G

G = good; F = fair; C = conditional; X = not recommended

WARNING

The above data is based on testing and believed to be reliable; however, the information should be used ONLY as a guide, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use.

All critical applications should be tested. Contact Parker Snap-tite for additional chemical compatibility information.



Rubber Hose Dimensional Tolerances

According to norms

EN 250	
On inside diameter	± 0.50 mm
On outside diameter	-0.2 / +0.8 mm
Length tolerance	± 1%

EN ISO 1825	
I.D. ≤ 38 mm	± 0.80 mm
I.D. 50 – 75 mm	± 1.20 mm
I.D. 100 mm	± 1.60 mm

EN ISO 7840	
On inside diameter	
I.D. 5 mm	± 0.50 mm
I.D. 8 – 19 mm	± 0.75 mm
I.D. 25 mm	± 1.25 mm
I.D. 38 – 50 mm	± 1.50 mm
Length tolerance	± 1%

EN 12115			
On inside diameter			
I.D. 19 – 38 mm	± 0.50 mm		
I.D. 50 mm	± 0.70 mm		
I.D. 63.5 – 100 mm	± 0.80 mm		
On outside diameter			
O.D. 31 – 51 mm	± 1.00 mm		
O.D. 66 – 91 mm	± 1.20 mm		
O.D. 116 mm	± 1.60 mm		
Length tolerance	± 1%		

EN ISO 3821	
On inside diameter	
I.D. 6.3 mm	± 0.40 mm
I.D. 8 – 10 mm	± 0.50 mm
Length tolerance	± 1%

EN ISO 6134	
On inside diameter	
≤ I.D. 38 mm	± 0.50 mm
> I.D. 38 mm	± 0.70 mm
On outside diameter	
≤ O.D. 48 mm	± 1.00 mm
O.D. 54 mm	± 1.20 mm
O.D. 69 mm	± 1.40 mm
Length tolerance	± 1%

SAE J1402 – TABLE A	
On inside diameter	
I.D. 9.5 mm	± 0.60 mm
I.D. 12.7 – 15.9 mm	± 0.80 mm
On outside diameter	
O.D. 19 mm	+ 0.80/ -0.70 mm
O.D. 22.2 – 27 mm	± 0.80 mm
Length tolerance	± 1 %

SAE J 30 R7	
On inside diameter	
I.D. ≤ 9.5 mm	± 0.40 mm
I.D. > 9.5 mm	± 0.60 mm
On outside diameter	
O.D. ≤ 15.9 mm	± 0.60 mm
O.D. > 15.9 mm	± 0.80 mm
Length tolerance	± 1 %

UNI 7140	
On inside diameter	± 0.50 mm
Length tolerance	± 1%

UNI EN ISO 1307	
On inside diameter	
I.D. ≤ 5 mm	± 0.60 mm
I.D. 6 – 20 mm	± 0.80 mm
I.D. > 20 - 25 mm	± 1.20 mm
I.D. > 25 mm	± 1.60 mm
Length tolerance	± 1%

RMA steel mandrel					
On inside diameter					
I.D. ≤ 38 mm	± 0.79 mm				
I.D. 40 – 120 mm	± 1.59 mm				
I.D. > 120 mm	± 2.00 mm				
On outside diameter					
O.D. ≤ 125 mm	± 1.59 mm				
O.D. > 125 mm	± 2.00 mm				
Tolerances on outside diameter are valid					
for hoses without a built-in helix only.					
Length tolerance	± 1%				



PVC Hose Dimensional Tolerances

ASPIREX					
On inside diameter	± 4 %				
On wall thickness	± 0.50 mm				
Length tolerance	± 1 %				

ASPIREX (PU/ANC) and 140 °C					
On inside diameter	± 4 %				
Length tolerance	± 1 %				

APERFLAT						
On inside diameter						
I.D. ≤ 100 mm	± 1.00 mm					
I.D. > 100 mm	± 1.50 mm					
Length tolerance	± 1 %					

MULTIREX, ENOREX						
On inside diameter						
I.D. ≤ 50 mm	± 0.50 mm					
I.D. > 50 mm	± 1.00 mm					
On wall thickness	± 0.50 mm					
Length tolerance	± 1 %					

APERSPIR						
On inside diameter	± 1 %					
On wall thickness	± 0.50 mm					
Length tolerance	± 1 %					

APERFRUT					
On inside diameter					
I.D. ≤ 16 mm	± 0.50 mm				
I.D. > 16 mm	± 1.00 mm				
Length tolerance	± 2 %				

VINITRESS						
On inside diameter						
I.D. ≤ 15 mm	± 0.50 mm					
I.D. 16 – 19 mm	± 0.80 mm					
I.D. > 19 mm	± 1.00 mm					
On wall thickness	± 0.50 mm					
Length tolerance	± 1 %					

All other technical data are subject to a \pm 5 % tolerance



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Parker Safety Guide

for Selecting and Using Hose, Tubing, Fittings and Related Accessories

Parker Publication No. 4400-B.1 - Revised: November, 2007



WARNING

Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

- · Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- · Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions below. Only Hose from Parker's Stratoflex Products Division is approved for in flight aerospace applications.

1.0 GENERAL INSTRUCTIONS

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) these Products. For convenience, all rubber and/or thermoplastic products commonly called "hose" or "tubing" are called "Hose" in this safety guide. All assemblies made with Hose are called "Hose Assemblies". All products commonly called "fittings", "couplings" or "adapters" are called "Fittings". All related accessories (including crimping and swaging machines and tooling) are called "Related Accessories". This safety guide is a supplement to and is to be used with the specific Parker publications for the specific Hose, Fittings and Related Accessories that are being considered for use. Parker publications are available at www.parker.com. SAE J1273 (www.sae.org) and ISO 17165 2 (www.ansi.org) also provide recommended practices for hydraulic Hose Assemblies.

1.2 Fail-Safe: Hose, Hose Assemblies and Fittings can and do fail without warning for many reasons. Design all systems and equipment in a fail safe mode, so that failure of the Hose, Hose Assembly or Fitting will not endanger persons or property.

- 1.3 Distribution: Provide a copy of this safety guide to each person responsible for selecting or using Hose and Fitting products. Do not select or use Parker Hose or Fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the Products.
- 1.4 User Responsibility: Due to the wide variety of operating conditions and applications for Hose and Fittings, Parker does not represent or warrant that any particular Hose or Fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:
- Making the final selection of the Products.
- Assuring that the user's requirements are met and that the application presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the Products are used.
- Assuring compliance with all applicable government and industry standards.
- 1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the

Products being considered or used, or call 1 800 CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2.0 HOSE AND FITTING SELECTION INSTRUCTIONS

- 2.1 Electrical Conductivity: Certain applications require that the Hose be nonconductive to prevent electrical current flow. Other applications require the Hose and the Fittings and the Hose/Fitting interface to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting Hose and Fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor. The electrical conductivity or nonconductivity of Hose and Fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the Hose and the Fittings, Fitting finish (some Fitting finishes are electrically conductive while others are nonconductive), manufacturing methods (including moisture control), how the Fittings contact the Hose, age and amount of deterioration or damage or other changes, moisture content of the Hose at any particular time, and other factors. The following are considerations for electrically nonconductive and conductive Hose. For other applications consult the individual catalog pages and the appropriate industry or regulatory standards for proper selection.
- 2.1.1 Electrically Nonconductive Hose: Certain applications require that the Hose be nonconductive to prevent electrical current flow or to maintain electrical isolation. For applications that require Hose to be electrically nonconductive, including but not limited to applications near high voltage electric lines, only special nonconductive Hose can be used. The manufacturer of the equipment in which the nonconductive Hose is to be used must be consulted to be certain that the Hose and Fittings that are selected are proper for the application. Do not use any Parker Hose or Fittings for any such application requiring nonconductive Hose, including but not limited to applications near high voltage electric lines, unless (i) the application is expressly approved in the Parker technical publication for the product, (ii) the Hose is marked "nonconductive", and (iii) the manufacturer of the equipment on which the Hose is to be used specifically approves the particular Parker Hose and Fittings for such use.
- 2.1.2 Electrically Conductive Hose: Parker manufactures special Hose for certain applications that require electrically conductive Hose. Parker manufactures special Hose for conveying paint in



airless paint spraying applications. This Hose is labeled "Electrically Conductive Airless Paint Spray Hose" on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in all airless paint spraying applications. Do not use any other Hose for airless paint spraying, even if electrically conductive. Use of any other Hose or failure to properly connect the Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Parker manufactures a special Hose for certain compressed natural gas ("CNG") applications where static electricity buildup may occur. Parker CNG Hose assemblies comply with the requirements of ANSI/IAS NGV 4.2-1999; CSA 12.52-M99, "Hoses for Natural Gas Vehicles and Dispensing Systems" (www. ansi.org). This Hose is labeled "Electrically Conductive for CNG Use" on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other Hose for CNG applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against CNG permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG Hose is intended for dispenser and vehicle use at a maximum temperature of 180°F (82°C). Parker CNG Hose should not be used in confined spaces or unventilated areas or areas exceeding 180°F (82°C). Final assemblies must be tested for leaks. CNG Hose Assemblies should be tested on a monthly basis for conductivity per ANSI/IAS NGV 4.2-1999; CSA 12.52-M99. Parker manufactures special Hose for aerospace in flight applications. Aerospace in flight applications employing Hose to transmit fuel, lubricating fluids and hydraulic fluids require a special Hose with a conductive inner tube. This Hose for in flight applications is available only from Parker's Stratoflex Products Division. Do not use any other Parker Hose for in flight applications, even if electrically conductive. Use of other Hoses for in flight applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury and property damage. These Hose assemblies for in flight applications must meet all applicable aerospace industry, aircraft engine and aircraft requirements.

- 2.2 Pressure: Hose selection must be made so that the published maximum working pressure of the Hose and Fittings are equal to or greater than the maximum system pressure. The maximum working pressure of a Hose Assembly is the lower of the respective published maximum working pressures of the Hose and the Fittings used. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the Hose. Surge pressures and peak pressures can usually only be determined by sensitive electrical instrumentation that measures and indicates pressures at millisecond intervals. Mechanical pressure gauges indicate only average pressures and cannot be used to determine surge pressures or peak transient pressures. Published burst pressure ratings for Hose is for manufacturing test purposes only and is no indication that the Product can be used in applications at the burst pressure or otherwise above the published maximum recommended working pressure.
- 2.3 Suction: Hoses used for suction applications must be selected to ensure that the Hose will withstand the vacuum and pressure of the system. Improperly selected Hose may collapse in suction application.
- 2.4 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the Hose. Temperatures below and above the recommended limit can degrade Hose to a point where a failure may occur and release fluid. Properly insulate and protect the Hose

Assembly when routing near hot objects (e.g. manifolds). Do not use any Hose in any application where failure of the Hose could result in the conveyed fluids (or vapors or mist from the conveyed fluids) contacting any open flame, molten metal, or other potential fire ignition source that could cause burning or explosion of the conveyed fluids or vapors.

- 2.5 Fluid Compatibility: Hose Assembly selection must assure compatibility of the Hose tube, cover, reinforcement, and Fittings with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis. Hose that is chemically compatible with a particular fluid must be assembled using Fittings and adapters containing likewise compatible seals.
- 2.6 Permeation: Permeation (that is, seepage through the Hose) will occur from inside the Hose to outside when Hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, diesel fuel, gasoline, natural gas, or LPG). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions. fires, and other hazards can result when using the wrong Hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use Hose if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a Hose even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the Hose Assembly. Permeation of moisture from outside the Hose to inside the Hose will also occur in Hose assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly, but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.
- 2.7 Size: Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.
- 2.8 Routing: Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to Hose collapse, twisting of the Hose, proximity to hot objects or heat sources). For additional routing recommendations see SAE J1273 and ISO 17165-2. Hose Assemblies have a finite life and if possible, should be installed in a manner that allows for ease of inspection and future replacement. Rubber Hose because of its relative short life, should not be used in residential and commercial buildings for HVAC (heating, ventilating and air conditioning) applications.
- 2.9 Environment: Care must be taken to ensure that the Hose and Fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals and air pollutants can cause degradation and premature failure.
- 2.10 Mechanical Loads: External forces can significantly reduce Hose life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type Fittings or adapters may be required to ensure no twist is put into the Hose. Unusual applications may require special testing prior to Hose selection.
- 2.11 Physical Damage: Care must be taken to protect Hose from wear, snagging, kinking, bending smaller that minimum bend radius and cutting, any of which can cause premature



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Hose failure. Any Hose that has been kinked or bent to a radius smaller than the minimum bend radius, and any Hose that has been cut or is cracked or is otherwise damaged should be removed and discarded.

- 2.12 Proper End Fitting: See instructions 3.2 through 3.5. These recommendations may be substantiated by testing to industry standards such as SAE J517 for hydraulic applications, or MIL-A-5070, AS1339, or AS3517 for Hoses from Parker's Stratoflex Products Division for aerospace applications.
- 2.13 Length: When establishing a proper Hose length, motion absorption, Hose length changes due to pressure, and Hose and machine tolerances and movement must be considered.
- 2.14 Specifications and Standards: When selecting Hose and Fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applica-
- 2.15 Hose Cleanliness: Hose components may vary in cleanliness levels. Care must be taken to ensure that the Hose Assembly selected has an adequate level of cleanliness for the application.
- 2.16 Fire Resistant Fluids: Some fire resistant fluids that are to be conveyed by Hose require use of the same type of Hose as used with petroleum base fluids. Some such fluids require a special Hose, while a few fluids will not work with any Hose at all. See instructions 2.5 and 1.5. The wrong Hose may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.
- 2.17 Radiant Heat: Hose can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the Hose.
- 2.18 Welding or Brazing: When using a torch or arc welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire resistant materials. Flame or weld spatter could burn through the Hose and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including Hose Fittings and adapters, above 450°F (232°C) such as during welding, brazing or soldering may emit deadly gases.
- 2.19 Atomic Radiation: Atomic radiation affects all materials used in Hose assemblies. Since the long-term effects may be unknown, do not expose Hose assemblies to atomic radiation.
- 2.20 Aerospace Applications: The only Hose and Fittings that may be used for in flight aerospace applications are those available from Parker's Stratoflex Products Division. Do not use any other Hose or Fittings for in flight applications. Do not use any Hose or Fittings from Parker's Stratoflex Products Division with any other Hose or Fittings, unless expressly approved in writing by the engineering manager or chief engineer of Stratoflex Products Division and verified by the user's own testing and inspection to aerospace industry standards.
- 2.21 Unlocking Couplings: Ball locking couplings or other Fittings with quick disconnect ability can unintentionally disconnect if they are dragged over obstructions, or if the sleeve or other disconnect member, is bumped or moved enough to cause disconnect. Threaded Fittings should be considered where there is a potential for accidental uncoupling.

3.0 HOSE AND FITTING ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1 Component Inspection: Prior to assembly, a careful examination of the Hose and Fittings must be performed. All components must be checked for correct style, size, catalog number, and length. The Hose must be examined for cleanliness, obstructions, blisters, cover looseness, kinks, cracks, cuts or any other visible defects. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion or other imperfections. Do NOT use any component that displays any signs of nonconformance.

- 3.2 Hose and Fitting Assembly: Do not assemble a Parker Fitting on a Parker Hose that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Do not assemble a Parker Fitting on another manufacturer's Hose or a Parker Hose on another manufacturer's Fitting unless (i) the engineering manager or chief engineer of the appropriate Parker division approves the Assembly in writing or that combination is expressly approved in the appropriate Parker literature for the specific Parker product, and (ii) the user verifies the Assembly and the application through analysis and testing. For Parker Hose that does not specify a Parker Fitting, the user is solely responsible for the selection of the proper Fitting and Hose Assembly procedures. See instruction 1.4. To prevent the possibility of problems such as leakage at the Fitting or system contamination, it is important to completely remove all debris from the cutting operation before installation of the Fittings. The Parker published instructions must be followed for assembling the Fittings on the Hose. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1 800 CPARKER, or at www.parker.com.
- 3.3 Related Accessories: Do not crimp or swage any Parker Hose or Fitting with anything but the listed swage or crimp machine and dies in accordance with Parker published instructions. Do not crimp or swage another manufacturer's Fitting with a Parker crimp or swage die unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.
- 3.4 Parts: Do not use any Parker Fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.
- 3.5 Field Attachable/Permanent: Do not reuse any field attachable Hose Fitting that has blown or pulled off a Hose. Do not reuse a Parker permanent Hose Fitting (crimped or swaged) or any part thereof. Complete Hose Assemblies may only be reused after proper inspection under section 4.0. Do not assemble Fittings to any previously used hydraulic Hose that was in service, for use in a fluid power application.
- 3.6 Pre-Installation Inspection: Prior to installation, a careful examination of the Hose Assembly must be performed. Inspect the Hose Assembly for any damage or defects. DO NOT use any Hose Assembly that displays any signs of nonconformance.
- 3.7 Minimum Bend Radius: Installation of a Hose at less than the minimum listed bend radius may significantly reduce the Hose life. Particular attention must be given to preclude sharp bending at the Hose to Fitting juncture. Any bending during installation at less than the minimum bend radius must be avoided. If any Hose is kinked during installation, the Hose must be discarded.
- 3.8 Twist Angle and Orientation: Hose Assembly installation must be such that relative motion of machine components does not produce twisting.
- 3.9 Securement: In many applications, it may be necessary to restrain, protect, or guide the Hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.
- 3.10 Proper Connection of Ports: Proper physical installation of the Hose Assembly requires a correctly installed port connection insuring that no twist or torque is transferred to the Hose when the Fittings are being tightened or otherwise during use..
- 3.11 External Damage: Proper installation is not complete without insuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.



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- 3.12 System Checkout: All air entrapment must be eliminated and the system pressurized to the maximum system pressure (at or below the Hose maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.
- 3.13 Routing: The Hose Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur. See section 2.4.
- 3.14 Ground Fault Equipment Protection Devices (GFEPDs): WARNING! Fire and Shock Hazard: To minimize the danger of fire if the heating cable of a Multitube bundle is damaged or improperly installed, use a Ground Fault Equipment Protection Device. Electrical fault currents may be insufficient to trip a conventional circuit breaker. For ground fault protection, the IEEE 515:1989 (www.ansi.org) standard for heating cables recommends the use of GFEPDs with a nominal 30 milliampere trip level for "piping systems in classified areas, those areas requiring a high degree of maintenance, or which may be exposed to physical abuse or corrosive atmospheres".

4.0 HOSE AND FITTING MAINTENANCE AND REPLACE-MENT INSTRUCTIONS

- 4.1 Even with proper selection and installation, Hose life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a possible Hose failure, and experience with any Hose failures in the application or in similar applications should determine the frequency of the inspection and the replacement for the Products so that Products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.7.
- 4.2 Visual Inspection Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the Hose Assembly:
- Fitting slippage on Hose;
- Damaged, cracked, cut or abraded cover (any reinforcement exposed);
- Hard, stiff, heat cracked, or charred Hose;
- Cracked, damaged, or badly corroded Fittings;
- Leaks at Fitting or in Hose;
- · Kinked, crushed, flattened or twisted Hose; and
- Blistered, soft, degraded, or loose cover.
- 4.3 Visual Inspection All Other: The following items must be tightened, repaired, corrected or replaced as required:
- Leaking port conditions;
- · Excess dirt buildup;
- · Worn clamps, guards or shields; and
- · System fluid level, fluid type, and any air entrapment.
- 4.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and leaks. Personnel must avoid potential hazardous areas while testing and using the system. See section 2.2.
- 4.5 Replacement Intervals: Hose assemblies and elastomeric seals used on Hose Fittings and adapters will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Hose Assemblies and elastomeric seals should be inspected and replaced at specific replacement intervals, based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See section 1.2. Hose and Fittings may be subjected to internal mechanical and/or chemical wear from the conveying fluid and may fail without warning. The user must determine the product life under such circumstances by testing. Also see section 2.5. See section 1.2.
- 4.6 Hose Inspection and Failure: Hydraulic power is accomplished by utilizing high pressure fluids to transfer energy and do work. Hoses, Fittings and Hose Assemblies all contribute to

- this by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the Hoses transporting the fluids. From time to time, Hose Assemblies will fail if they are not replaced at proper time intervals. Usually these failures are the result of some form of misapplication, abuse, wear or failure to perform proper maintenance. When Hoses fail, generally the high pressure fluids inside escape in a stream which may or may not be visible to the user. Under no circumstances should the user attempt to locate the leak by "feeling" with their hands or any other part of their body. High pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid. If a Hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the Hose Assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the Hose Assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a Hose Assembly even when pumps or equipment are not operating. Tiny holes in the Hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the Hose Assembly may be examined safely. Once the pressure has been reduced to zero, the Hose Assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a Hose Assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for Hose Assembly replacement information. Never touch or examine a failed Hose Assembly unless it is obvious that the Hose no longer contains fluid under pressure. The high pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.
- 4.7 Elastomeric seals: Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.
- 4.8 Refrigerant gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.
- 4.9 Compressed natural gas (CNG): Parker CNG Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per ANSI/IAS NGV 4.2-1999; CSA 12.52-M99 Section 4.2 "Visual Inspection Hose/ Fitting". The recommended procedure is to pressurize the Hose and check for leaks and to visually inspect the Hose for damage. Caution: Matches, candles, open flame or other sources of ignition shall not be used for Hose inspection. Leak check solutions should be rinsed off after use.

5.0 HOSE STORAGE

- 5.1 Age Control: Hose and Hose Assemblies must be stored in a manner that facilitates age control and first-in and first-out usage based on manufacturing date of the Hose and Hose Assemblies. The shelf life of rubber Hose is 4 years and 2 years for Hose Assemblies whatever comes first.
- 5.2 Storage: Stored Hose and Hose Assemblies must not be subjected to damage that could reduce their expected service life and must be placed in a cool, dark and dry area with the ends capped. Stored Hose and Hose Assemblies must not be exposed to temperature extremes, ozone, oils, corrosive liquids or fumes, solvents, high humidity, rodents, insects, ultraviolet light, electromagnetic fields or radioactive materials.



Critical Applications

Saftey Overview

It is important to employ safe practices in the use of industrial hose due to the number of potentially dangerous applications encountered and products conveyed, and the number of people that may be involved or exposed. Strictly observe these simple practices to help avoid accidents.

• **Training:** Train all operators thoroughly

• Evaluation: Evaluate the application to determine the hose performance requirements

• Selection: Select the most appropriate hose and couplings for the application; ensure that the couplings are

compatible with the media and hose, and securely attached to the hose

• Service: Regularly inspect and maintain both the hose and couplings while in service

While many industrial hose applications are potentially dangerous, some are of particular concern because their danger may not be readily apparent. This is especially true for applications involving untrained or inexperienced operators.

Aircraft Fueling Hose

Use only API/ISO qualified hose for aircraft fueling applications. Aircraft fueling hose incorporates high grade rubber compounds that dissipate static charges and will not contaminate fuel.

Note: To avoid fuel contamination do not use gasoline dispenser or farm pump hose to fuel aircraft.

Anhydrous Ammonia (NH3) Hose

Many accidents involving anhydrous ammonia occur due to selection of an incorrect hose for the application. Anhydrous ammonia hose must be specially designed and compounded to handle the media, with a perforated cover to prevent gas build-up amidst the layers of hose.

WARNING! Use ONLY anhydrous ammonia hose for anhydrous ammonia service. Contact with anhydrous ammonia in its liquid or gaseous (vapor) phase will burn skin, eyes and lungs, causing serious bodily injury or death.

- Do not use anhydrous ammonia hose for LPG service. It may fail suddenly and quickly. Anhydrous ammonia hose and LPG hose are frequently used in proximity and may be accidentally switched.
- Do not use with couplings containing o-rings, which may dry out, crack and fail over time. Do not use with male swivel couplings or other couplings containing hidden o-rings.

Anhydrous ammonia hose is designed to allow a limited amount of permeation of gas through the wall of the hose when in service, and staining of the hose cover in the pinpricked areas does not necessarily indicate leakage for a hose in service. However, a visible gas mist escaping through the hose is an indication of leakage. To verify the integrity of a hose in service, perform a hydrostatic test on the assembly; immediately remove from service any that fail the test.

Note: For non-agricultural or refrigeration applications, contact Parker.



Chemical Hose

A chemical hose system failure could cause the release of poisonous, corrosive, or flammable material resulting in property damage, serious bodily injury or death. All reputable manufacturers of chemical hose recommend specific hose constructions to handle various chemicals.

Refer to the chemical guides in this catalog, or contact Parker for technical assistance before using or recommending a hose product.

Handling

- Use care to prevent mishandling. Crushing or kinking of the hose can cause severe damage to the reinforcement.
- Use proper hose suspension equipment when lifting or dragging a hose to ensure that the recommended curvature is not exceeded. Avoid sharp bends at the end fittings and at manifold connections.

Operation

 Use safety precautions such as wearing eye or face protection, rubber gloves, boots, and other types of protective clothing.

- Monitor pressures and temperatures to ensure that the hose is not exposed to conditions above specified limits.
- Do not allow chemicals to contact the exterior of the hose or allow hose to lie in a pool of chemicals since the hose cover may not have the same level of corrosion resistance as the tube. Corrosive materials that come into contact with the reinforcing material will cause reduced service life and premature hose failure.

Temperature

Do not use chemical hose at pressures or temperatures exceeding those as specified for the product. Many chemical resistance guides are based on temperatures of 70°F (21°C). Elevated temperatures can change the chemical resistance ratings. Many chemicals will become more aggressive as temperatures increase, reducing the ability of hose compounds to withstand them. Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, end users are required to perform compatibility testing at the desired temperature.

Gasoline Dispenser Hose

Millions of consumers operate gasoline pumps every day, increasing the concern for the safe use of dispensing equipment, including the hose. Since gasoline dispenser hoses are subject to frequent abuse, hose selection must include consideration of the rigors of the application. For maximum service life, select only the highest quality.

Note: To avoid fuel contamination do not use gasoline dispenser or farm pump hose to fuel aircraft.

LP Gas (Propane) Hose

Many accidents involving LP Gas occur due to selection of an incorrect hose for the application. LP Gas hose must be specially designed and compounded to handle the media, with a perforated cover to prevent gas build-up amidst the layers of the hose.

WARNING! Use ONLY LP Gas hose for LP Gas service. LP Gas possesses volatile characteristics that may produce fire or explosions causing property damage, serious bodily injury or death.

- Do not use LP Gas hose for anhydrous ammonia service. It may fail suddenly and quickly. Anhydrous ammonia hose and LPG hose are frequently used in proximity and may be accidentally switched.
- Do not use with couplings containing o-rings, which may dry out, crack and fail over time. Do not use with male swivel couplings or other couplings containing hidden o-rings.

LP Gas hose is designed to allow a limited amount of permeation of LP Gas through the wall of the hose when in service. The permeation is apparent when the hose is moist or in water, and bubbles may be perceived as leakage. However, a legitimate propane leak creates a frosting or icing on the surface of the hose or coupling.

To verify the integrity of a hose in service, perform a hydrostatic test on the assembly; immediately remove from service any hose that fails the test.



TH42 Catalogue 4401/UK

Natural Gas and LP Gas Hose

The molecules of natural gas are small, enhancing their ability to permeate through standard rubber or PVC hose constructions. The permeation process is more rapid as the working pressure increases, and natural gas accumulates with potentially dangerous consequences.

- Use only in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
- Do not use LP Gas hose to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation, overall strength and durability.
 Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Petroleum Transfer Hose

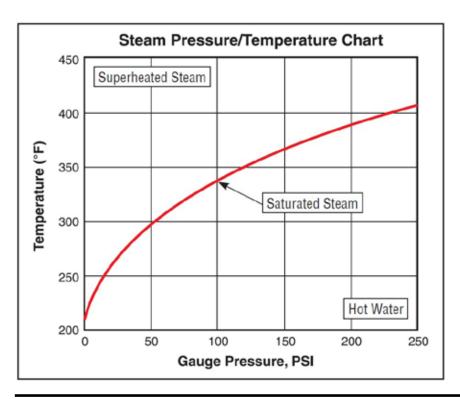
- Do not use for oil or fuel transfer service in or on open water. Hose damage or failure may result in spillage and environmental damage. Use hose specifically designed for this application.
- Do not immerse in fuel. The hose cover compound may not be of sufficient grade to resist attack by the fuel. Use hose specifically designed for this application.

Steam Hose

Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly.

WARNING! Hot water, low pressure steam and high pressure steam may escape explosively and will scald skin, eyes and lungs, which may lead to severe bodily injury or death.

- Many steam systems incorporate detergents or rust inhibitors which may attack steam hose. Prior to using a steam hose with detergents or rust inhibitors, refer to the chemical guides in this catalog, or contact Parker.
- Drain steam hose after each use to reduce the possibility of hose popcorning while in service.
 The chart at the right represents the three forms of water when subjected to various combinations of heat and pressure. The red line represents the point at which hot water becomes saturated steam. The area below the red line is hot water; the area above the red line is superheated steam.





TH43 Catalogue 4401/UK

Welding Hose

Many accidents involving welding hose occur due to selection of an incorrect hose for the application. Welding hose must be specially designed and compounded to handle the media. Due to the extreme volatility of gases, the varying compatibility of gases with the various grades of hose, and the rough environment of many welding applications, it is crucial to select the correct welding hose.

WARNING! Welding gases possess volatile characteristics that may produce fire or explosions causing property damage, serious bodily injury or death.

- Replace all assemblies that show signs of abrading, abuse, age, damage or fatigue. Do not attempt to recouple, repair or splice hose assemblies.
- Fabricate hose assemblies using only crimped-on ferrules at least 25 mm long to ensure coverage and support of the coupling stem inside the hose.
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose.

PVC / Thermoplastic Hose

Thermoplastic polymer compounds are designed to resist deterioration when exposed to a wide range of commercial chemicals and environmental conditions. The resistance to attack is based on many factors, including temperature, pressure, chemical concentration, exposure to ultraviolet light, velocity of the media and duration of exposure/ service (intermittent or constant). The user is solely responsible for making the final selection of the hose and tubing, and meeting all endurance, maintenance, performance, safety and warning requirements of the application.

WARNING! As temperature increases or decreases, burst pressure, safe working pressure, coupling retention properties, and other safety characteristics of the hose can significantly decrease. Failure to consider how temperature and other conditions affect hose performance may cause property damage, serious bodily injury or death.







aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

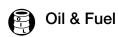




Oil & Fuel







A - Oil & Fuel

Hose	ID Range (mm)	Temp. Range (°C)	Application
CARBOPRESS N/L 10	5 - 25	-25 / +80	fuel, oil, petrol aromatic < 50 %
CARBOPRESS N/L 20	6 - 25	-25 / +80	fuel, oil, petrol aromatic < 50 %
CARBURITE 10	19 - 150	-30 / +80	fuel, oil, petrol aromatic < 50 %
OILPLUS 30	25 - 100	-35 / +100	fuel, oil, petrol aromatic < 50 %
CARBOCORD EN 12115	19 - 100	-25 / +80	fuel, oil, petrol aromatic < 50 %
CHEMIOEL EN 12115	19 - 100	-25 / +80	fuel, oil, petrol aromatic < 50 %
CHEMIOEL EN 12115 OND	19 - 100	-25 / +80	fuel, oil, petrol aromatic < 50 %
CERVINO EN 12115	50 - 100	-40 / +80	fuel, oil, petrol aromatic < 50 %
E-Z FORM™ HT	12.7 - 25.4	-40 / +150	petrobased oil suc./ret. line, power stee
RAGUSA 4	50 - 100	-25 / +80	fuel, oil, petrol aromatic < 50 %
GASTRUCK EN 1762 D-M	16 - 50	-30 / +70	LPG/ CNG load tankers
ROBUR GPL	8 - 51	-30 / +70	LPG/ CNG load & unload tankers
JETCORD B ISO 1825	25 - 100	-40 / +70	aircraft refuelling
JETCORD C ISO 1825	25 - 100	-40 / +70	aircraft refuelling
JETCORD E ISO 1825	25 - 100	-40 / +70	aircraft refuelling
JETCORD F ISO 1825	25 - 100	-40 / +70	aircraft refuelling



	Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
	NBR	textile	NBR/EPDM	10	3			A 4
	NBR	textile	NBR/EPDM	20	3			A 4
	NBR	textile	NBR/SBR	10	3	yes		A 5
	NBR	textile	NBR/PVC	30	3	yes		A 6
	NBR	textile + copper wires	NBR/SBR	16	4		EN 12115	A7
	NBR	textile + copper wires	NBR/SBR	16	4	yes	EN 12115	A8
	NBR	textile + copper wires	NBR/SBR	10	4	yes	EN12115	A 9
	NBR	textile + copper wires	NBR/SBR	16	4	yes	EN 12115	A10
ering	CPE	textile	HNBR	10	4	yes		A11
	NBR	textile + copper wires	NBR/SBR	4	4	yes		A12
	NBR	textile + SS wires	NBR/PVC	25	4		EN 1762	A13
	NBR	steel wire	SBR/CR	25	10	yes		A14
	NBR	textile + copper wires	CR	20	4		EN ISO 1825 Type B	A15
	NBR	textile	CR	20	4		EN ISO 1825 Type C	A16
	NBR	textile	CR	20	4	yes	EN ISO 1825 Type E	A17
	NBR	textile	CR	20	4	yes	EN ISO 1825 Type F	A18



CARBOPRESS N/L 10 - 20

Suitable for fuel oils, petrol and diesel having an aromatic content not exceeded 50 % and also for grease.

Hose Construction

Tube: Black, smooth,

NBR rubber compound

Reinforcement: Synthetic textile yarns

Cover: Black, smooth, abrasion, oil, fuel,

and weather-resistant, antistatic $(R < 1 M\Omega/m)$ special NBR/EPDM

rubber compound

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F) up to +100 °C (+212 °F) for oil



- Dual pressure lines
- Also suitable for water and air in general service applications
- Design Factor 3:1

Tolerances

According to UNI EN ISO 1307 Refer to Technical Handbook on page TH35

Part Number			Max	min. Bend Radius	in Stock			
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
CARBOPRESS N/L 10)	•			,	,		
IH30501001/100	5	12	1.0	150.0	10	0.12	40	Υ
IH30511003/100	6	12	1.0	150.0	10	0.11	50	Υ
IH30511002/100	6	13	1.0	150.0	10	0.14	50	Υ
IH30501002/100	8	15	1.0	150.0	10	0.17	65	Υ
IH30501003/100	10	17	1.0	150.0	10	0.20	80	Υ
IH30501004/100	13	20	1.0	150.0	10	0.24	105	Υ
IH30511004/100	16	23	1.0	150.0	10	0.29	130	Υ
IH30501006/40	19	27	1.0	150.0	10	0.39	150	Υ
IH30501007/50	25	35	1.0	150.0	10	0.63	200	Υ
CARBOPRESS N/L 20)							
IH30502001/100	6	14	2.0	300.0	20	0.17	50	Υ
IH30502002/100	8	17	2.0	300.0	20	0.24	65	Υ
IH30502003/100	10	19	2.0	300.0	20	0.27	80	Υ
IH30512006/100	13	23	2.0	300.0	20	0.38	105	Ν
IH30512010/40	16	26	2.0	300.0	20	0.44	130	Υ
IH30512007/40	19	30	2.0	300.0	20	0.57	150	Ν
IH30512009/40	25	36	2.0	300.0	20	0.71	200	Ν





CARBURITE 10

Designed for suction and delivery of mineral oils and fuels (with aromatic content not exceeding 50 %) in road and rail tankers, service stations and refineries.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to oil and fuel with an aromatic content not exceeding

50 %

Reinforcement: Synthetic textile fabrics and

embedded steel wire helix

Cover: Black, smooth, antistatic

 $(R < 1 \text{ M}\Omega/\text{m})$ NBR/SBR rubber compound, oil, fuel, abrasion, ageing and weather resistant

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F) up to +100 °C (+212 °F) for oil



- Also suitable for water and air in general service applications
- Crimped solution with 48 series and Large Bore series
- Vacuum 0.8 bar (600 mm Hg)
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36530099/40	19	29	1.0	150.0	10	0.61	120	Υ
IH36531004/40	25	35	1.0	150.0	10	0.80	150	Υ
IH36530201/40	30	40	1.0	150.0	10	0.92	180	Υ
IH36531012/40	32	42	1.0	150.0	10	0.98	190	Υ
IH36530202/40	35	45	1.0	150.0	10	1.05	210	Υ
IH36531002/40	38	48	1.0	150.0	10	1.13	240	Υ
IH36530203/40	40	50	1.0	150.0	10	1.18	240	Υ
IH36530212/40	42	52	1.0	150.0	10	1.22	252	Y
IH36530204/40	45	55	1.0	150.0	10	1.31	270	Υ
IH36530205/40	50	60	1.0	150.0	10	1.46	300	Y
IH36530206/40	60	71	1.0	150.0	10	1.89	360	Υ
IH36531001/40	63.5	75	1.0	150.0	10	2.09	380	Υ
IH36530207/20	70	82	1.0	150.0	10	2.47	420	Υ
IH36530208/20	75	87	1.0	150.0	10	2.68	450	Υ
IH36530209/20	80	92	1.0	150.0	10	2.84	480	Υ
IH36531003/20	90	104	1.0	150.0	10	3.64	540	Y
IH36530211/20	100	114	1.0	150.0	10	4.02	600	Υ
IH36531019/20	110	124	1.0	150.0	10	4.29	660	Υ
IH36531050/10	150	170	1.0	150.0	10	7.27	900	Ν









OILPLUS 30

Suction & delivery hose for multi-purpose applications requiring transfer of many types of fluids and for petroleum products with aromatic content not exceeding 50 %.

Hose Construction

Tube: Black, smooth, oil and fuel resistant

> NBR rubber compound suitable for petroleum products with an aromatic content not exceeding 50 %.

Reinforcement: Synthetic textile fabrics and

embedded steel wire helix

Cover: Smooth, black, self-extinguishing,

> antistatic (R<1M Ω /m) heat, oil, abrasion and weather resistant NBR/PVC rubber compound

Temperature Range

-35 °C (-31 °F) to +100 °C (+212 °F) with peaks up to +120 °C (+248 °F)



- Suitable for multipurpose application
- Suitable for many different fuels included Biodiesel B100
- Wide temperature range
- High WP
- Vacuum 0.9 bar
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36533101/40	25	37	3.0	450.0	30	0.90	150	Ν
IH36533102/40	32	44	3.0	450.0	30	1.10	190	Ν
IH36533103/40	38	51	3.0	450.0	30	1.38	230	Ν
IH36533106/40	50	66	3.0	450.0	30	2.07	300	Ν
IH36533112/40	63.5	79	3.0	450.0	30	2.93	380	Ν
IH36533110/40	75	93	3.0	450.0	30	3.52	450	Ν
IH36533113/20	100	122	3.0	450.0	30	5.88	600	Ν



CARBOCORD EN 12115

According to EN 12115

Suitable for delivery of oil and fuel with an aromatic content not exceeding 50 %.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to oil and fuel with an aromatic content not exceeding

50 %.

Reinforcement: Synthetic textile fabrics and built-in

copper wires to provide electrical continuity between both ends.

Cover: Black, smooth, NBR/SBR rubber

compound, antistatic (R < 1 $M\Omega/m$),

oil, fuel, abrasion, ageing and

weather resistant.

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F) up to +100 °C (+212 °F) for oil



- Meets TRbF 131 Teil 2 par 5.5 (flame resistance)
- Optimal for tank truck application
- Electrical continuity guaranteed by copper wires if correctly assembled
- Design Factor 4:1

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36522309/40	19	31	1.6	232.0	16	0.60	125	N
IH36522310/40	25	37	1.6	232.0	16	0.89	150	Υ
IH36522311/40	32	44	1.6	232.0	16	1.00	175	Υ
IH36522312/40	38	51	1.6	232.0	16	1.30	225	Υ
IH36522313/40	50	66	1.6	232.0	16	2.00	275	Υ
IH36522314/40	63.5	79	1.6	232.0	16	2.40	300	Υ
IH36522315/40	75	91	1.6	232.0	16	2.80	350	Ν
IH36522316/40	100	116	1.2	180.0	12	3.80	450	N



CHEMIOEL EN 12115

According to EN 12115

Designed for suction and delivery of mineral oils and fuels with an aromatic content not exceeding 50 %.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to oil and fuel with an aromatic content not exceeding

50 %

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wire to facilitate the electrical connection between the hose and the

end couplings

Cover: Black, smooth, NBR/SBR rubber

compound, antistatic

(R < 1 M Ω /m), oil, fuel, abrasion, ageing and weather resistant



- Meets TRbF 131 Teil 2 par 5.5 (flame resistance)
- Optimal for tank truck application
- Crimped solution with 48 series and Large Bore series
- Vacuum 0.9 bar for ID up to 63.5 mm then 0.8 bar
- Design Factor 4:1

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F) up to +100 °C (+212 °F) for oil

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36530229/40	19	31	1.6	232.0	16	0.70	125	Υ
IH36530230/40	25	37	1.6	232.0	16	0.90	150	Υ
IH36530231/40	32	44	1.6	232.0	16	1.20	175	Υ
IH36530232/40	38	51	1.6	232.0	16	1.50	225	Υ
IH36530233/40	50	66	1.6	232.0	16	2.30	275	Υ
IH36530234/40	63.5	79	1.6	232.0	16	2.80	300	Υ
IH36530235/40	75	91	1.6	232.0	16	3.30	350	Υ
IH36530236/20	100	116	1.2	180.0	12	4.70	450	Υ



CHEMIOEL EN 12115 OND

According to EN 12115

Specially designed for suction and delivery of mineral oils and fuels with an aromatic content not exceeding 50 %, mud and hydrocarbons for trucks when a lightweight and flexible hose is required.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to oil and fuel with an aromatic content not exceeding

50 %

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in a copper wire to facilitate the electrical connection between the hose and

the end couplings

Cover: Black, smooth, NBR/SBR rubber

compound, antistatic (R < 1 $M\Omega/m$),

oil, fuel, abrasion, ageing and

weather resistant



- Meets TRbF 131 Teil 2 par 5.5 (flame resistance)
- Very low bending radius
- Electrical continuity guaranteed by copper wires if correctly assembled
- Vacuum 0.9 bar
- Design Factor 4:1

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F) up to +100 °C (+212 °F) for oil

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

			k. Working	Pressure	Weight	min. Bend Radius	in Stock
I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
19	_	1.0	150.0	10	0.77	60	N
25	_	1.0	150.0	10	0.95	75	Ν
32	_	1.0	150.0	10	1.15	100	Ν
38	_	1.0	150.0	10	1.50	120	Ν
50	_	1.0	150.0	10	2.22	150	Υ
63.5	_	1.0	150.0	10	2.72	190	Ν
75	_	1.0	150.0	10	3.22	225	Υ
100	-	1.0	150.0	10	5.04	300	Ν
	1.D. (mm) 19 25 32 38 50 63.5 75	I.D. (mm) O.D. (mm) 19 - 25 - 32 - 38 - 50 - 63.5 - 75 -	I.D. (mm) O.D. (mm) MPa 19 - 1.0 25 - 1.0 32 - 1.0 38 - 1.0 50 - 1.0 63.5 - 1.0 75 - 1.0	I.D. (mm) O.D. (mm) MPa psi 19 - 1.0 150.0 25 - 1.0 150.0 32 - 1.0 150.0 38 - 1.0 150.0 50 - 1.0 150.0 63.5 - 1.0 150.0 75 - 1.0 150.0	I.D. (mm) O.D. (mm) MPa psi bar 19 - 1.0 150.0 10 25 - 1.0 150.0 10 32 - 1.0 150.0 10 38 - 1.0 150.0 10 50 - 1.0 150.0 10 63.5 - 1.0 150.0 10 75 - 1.0 150.0 10	I.D. (mm) O.D. (mm) MPa psi bar kg/m 19 - 1.0 150.0 10 0.77 25 - 1.0 150.0 10 0.95 32 - 1.0 150.0 10 1.15 38 - 1.0 150.0 10 1.50 50 - 1.0 150.0 10 2.22 63.5 - 1.0 150.0 10 2.72 75 - 1.0 150.0 10 3.22	Max. Working Pressure Weight Radius MPa psi bar kg/m mm



CERVINO EN 12115

According to EN 12115

Suction and delivery of mineral oils and fuels, with an aromatic content not exceeding 50 %. The special compounds make the hose specially indicated for outdoor applications, when low temperature conditions are implicated.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to oil and fuel with an aromatic content not exceeding

50 %

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wire to facilitate the electrical connection between the hose and the

end couplings

Cover: Black, smooth, abrasion resist-

ance NBR/SBR rubber compound, antistatic (R < 1 M Ω /m), oil, fuel, low temperature, ageing and weather

resistant



- Technology nitrogen tested for safe air applications
- Cold bend tested as per ISO 4672 without cracks
- Good result on cover abrasion test as per ISO 6945
- Crimped solution with 48 series and Large Bore series
- Vacuum 0.8 bar (600 mm Hg)
- Design Factor 4:1

Temperature Range

-40 °C (-40 °F) to +80 °C (+176 °F) up to +100 °C (+212 °F) for oil

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36530430/40	50	66	1.6	232.0	16	2.30	200	Υ
IH36530431/40	63.5	79	1.6	232.0	16	2.80	250	Υ
IH36530432/40	75	91	1.6	232.0	16	3.30	300	Υ
IH36530433/40	100	116	1.2	180.0	12	4.70	400	Υ





E-Z FORM™ HT

Parker Global Product

Extremely flexible, lightweight, high temperature petroleum-based oil suction/return hose designed to resist cracking and deterioration for the extreme heat generated in Tier IV engine. It may also be used in non-SAE power steering applications (as a low pressure return line only). The lightweight Greek corrugated hose construction incorporates a wire helix that provides full suction capability. The unique corrugations are tightly pitched and precision-engineered, providing extreme flexibility compared to the traditional rounded corrugation profile. The cover is resistant to high temperature oil in high temperature environments.

Hose Construction

Tube: Black CPE

Reinforcement: Multiple textile braids with helix **Cover:** Black Hydrogenate NBR, Greek

corrugated finish



- Saves time and costs thanks to easy and quick assembly
- Superior kink resistance, minimal force to bend, outstanding flexibility
- In buses, cranes, trucks and mobile/heavy duty off-road equipment
- Design Factor 4:1
- Vacuum: 0,9 bar

Temperature Range

-40 °C (-40 °F) to +150 °C (+302 °F)

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
7399-0500025	12.7	23.8	1.0	150	10	0.43	23	Υ
7399-0625025	15.9	27.0	1.0	150	10	0.54	33	Υ
7399-0750025	19.1	30.0	1.0	150	10	0.56	36	Υ
7399-0875025	22.2	32.8	1.0	150	10	0.61	36	Υ
7399-1000025	25.4	36.0	1.0	150	10	0.66	36	Υ

coils of 7.62 m (25 feet)



RAGUSA 4

Suitable for suction and delivery of mineral oils and fuels having an aromatic content not exceeding 50 %, when a lightweight and flexible hose is required.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to oil and fuel with an aromatic content not exceeding

50 %

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wire for electrical continuity at both

ends

Cover: Black, oil, fuel, abrasion and weath-

er resistant, antistatic (R < 1 $M\Omega/m$)

corrugated NBR/SBR rubber compound. Generally manufactured

with soft cuffed ends and supplied

in lengths required

N° PROGRESS. MATRIC.



- Very low bending radius
- Customized length
- Soft cuffed ends for clamps fixing
- Design Factor 4:1

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F) up to +100 °C (+212 °F) for oil

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36538101/0	50	-	0.4	58.0	4	1.39	200	N
IH36538105/0	63.5	_	0.4	58.0	4	1.89	250	Ν
IH36538102/0	75	_	0.4	58.0	4	2.19	300	Ν
IH36538103/0	80	_	0.4	58.0	4	2.32	320	N
IH36538104/0	100	_	0.4	58.0	4	3.08	400	Ν



A12



GASTRUCK EN 1762 D-M

According to EN 1762

Liquid gas application (methane, propane, LPG) loading of tankers. According to EN 1762 (hoses and hose assemblies for LPG and natural gas).

Hose Construction

Tube: Black, smooth, low diffusion rate

NBR rubber compound

Reinforcement: Synthetic textile yarns or plies,

embedded stainless steel built-in wire to facilitate the electrical connection between the hose

and the end couplings

Cover: Black, smooth, antistatic

 $(R < 1 \text{ M}\Omega/\text{m})$, abrasion, oil, fuel and weather resistant NBR/PVC rubber compound. Pin-pricked to prevent

the formation of blisters

Temperature Range

-30 °C (-22 °F) to +70 °C (+158 °F)



- Electrical continuity guaranteed by SS wires if correctly assembled
- Low permeability
- Pin-pricked cover
- Design Factor 4:1

Tolerances

On inside diameter

 \leq I.D. 38 mm \pm 0.50 mm > I.D. 38 mm \pm 0.60 mm

On outside diameter

 \leq O.D. 52 mm \pm 1.00 mm > O.D. 52 mm \pm 1.20 mm Length tolerance \pm 1 %

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30515072/40	16	26	2.5	362.5	25	0.51	125	N
IH36520580/40	19	31	2.5	362.5	25	0.66	160	Υ
IH36520581/40	25	38	2.5	362.5	25	0.88	200	Υ
IH36520582/40	32	45	2.5	362.5	25	1.15	250	Υ
IH36520583/40	38	52	2.5	362.5	25	1.32	320	Υ
IH36520584/40	50	66	2.5	362.5	25	1.90	400	Υ





ROBUR GPL

Liquid gas applications (methane, propane, LPG) in the loading and unloading of tankers and in the service stations.

Hose Construction

Tube: Low diffusion rate seamless

extruded NBR rubber compound

of uniform thickness.

Reinforcement: Two braids of high tensile steel wire

Cover: Black, SBR/CR rubber compound

pin-pricked to prevent the formation of blisters, resistant to abrasion,

oils, ozone and weathering

Temperature Range

-30 °C (-22 °F) to +70 °C (+158 °F)



- Suitable for vacuum application
- Low permeability
- Pin-pricked cover
- Design Factor 10:1
- Vacuum 0.5 bar

Tolerances

Length tolerance ±1%

Part Number		Nominal Diameter		Max. Working Pressure			Weight	min. Bend Radius	in Stock
	(mm)	(inch)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36520561/0	8	5/16	17.7	2.5	362.5	25	0.45	70	N
IH36520562/0	9.5	3/8	20.2	2.5	362.5	25	0.56	80	Ν
IH36520563/0	13	1/2	23.2	2.5	362.5	25	0.68	90	Υ
IH36520564/0	16	5/8	26.5	2.5	362.5	25	0.80	95	Υ
IH36520565/0	19	3/4	30.5	2.5	362.5	25	1.03	100	Υ
IH36520566/0	25	1	38.5	2.5	362.5	25	1.41	150	Υ
IH36520567/0	32	1 1/4	45.6	2.5	362.5	25	1.82	200	Ν
IH36520568/0	38	1 ½	52	2.5	362.5	25	2.00	280	Ν
IH36520569/0	51	2	66.5	2.5	362.5	25	2.86	350	Υ





JETCORD B ISO 1825

According to EN ISO 1825 type B

Designed for the ground refuelling of aircraft.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to aviation gasoline and jet fuels having an aromatic content not exceeding 50 %

Reinforcement: Synthetic textile fabrics, with built-in

copper wire to ensure the electrical

continuity

Cover: Black, CR rubber compound,

resistant to mineral oil, fuels, abrasion, ozone and weathering

Temperature Range

-40 °C (-40 °F) to +70 °C (+158 °F)



- Suggested brass fitting to prevent sparks
- Supplied with test report
- Design Factor 4:1

Tolerances

According to EN ISO 1825

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36522850/40	25	39	2.0	300.0	20	0.93	150	Ν
IH36522851/40	32	46	2.0	300.0	20	1.12	187	Ν
IH36522852/40	38	52	2.0	300.0	20	1.31	225	Ν
IH36522853/40	50	67	2.0	300.0	20	2.04	275	Ν
IH36522854/40	63.5	80	2.0	300.0	20	2.5	300	Ν
IH36522856/40	75	92	2.0	300.0	20	2.9	300	Ν
IH36522855/40	100	122	2.0	300.0	20	5.02	450	N



JETCORD C ISO 1825

According to EN ISO 1825 type C

Designed for the ground refuelling of aircraft non-electrically bonded, but incorporating an antistatic cover compound.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to aviation gasoline and jet fuels having an aromatic content not exceeding 50 %

Reinforcement: Synthetic textile fabrics

Cover: Black, antistatic (R> 10^3 < $10^6 \Omega$ /m),

CR rubber compound, resistant to mineral oil, fuels, abrasion, ozone

and weathering

Temperature Range

-40 °C (-40 °F) to +70 °C (+158 °F)



- Suggested brass fitting to prevent sparks
- Supplied with test report
- Design Factor 4:1

Tolerances

According to EN ISO 1825

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36522897/40	25	39	2.0	300.0	20	0.90	150	N
IH36522898/40	32	46	2.0	300.0	20	1.10	187	Ν
IH36522899/40	38	52	2.0	300.0	20	1.28	225	Ν
IH36522900/40	50	67	2.0	300.0	20	2.01	275	Ν
IH36522901/40	63.5	80	2.0	300.0	20	2.47	300	Ν
IH36522902/40	75	92	2.0	300.0	20	2.87	300	Ν
IH36522903/40	100	122	2.0	300.0	20	5.00	450	N



JETCORD E ISO 1825

According to EN ISO 1825 type E

Designed for use in all operations associated with the ground refuelling and fuel discharging of aircraft with enhanced defuelling capability, electrically conducting and incorporating a wire helix reinforcement.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to aviation gasoline and jet fuels having an aromatic content not exceeding 50 %

Reinforcement: Synthetic textile fabrics and

embedded wire helix

Cover: Black, CR rubber compound,

resistant to mineral oil, fuels, abrasion, ozone and weathering

Temperature Range

-40 °C (-40 °F) to +70 °C (+158 °F)



- Suggested brass fitting to prevent sparks
- Supplied with test report
- Design Factor 4:1
- Vacuum 0.85 bar

Tolerances

According to EN ISO 1825

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36522940/40	25	40	2.0	300.0	20	1.15	150	Ν
IH36522941/40	32	46	2.0	300.0	20	1.31	187	Ν
IH36522942/40	38	54	2.0	300.0	20	1.76	225	Ν
IH36522943/40	50	67	2.0	300.0	20	2.36	275	N
IH36522945/40	63.5	82	2.0	300.0	20	3.29	300	Ν
IH36522944/40	75	94	2.0	300.0	20	3.83	300	N
IH36522946/40	100	122	2.0	300.0	20	5.96	450	Ν





JETCORD F ISO 1825

According to EN ISO 1825 type F

Designed for use in all operations associated with the ground refuelling and fuel discharging of aircraft with enhanced defuelling capability, non-electrically conducting and incorporating a non-metallic helix reinforcement with an antistatic cover compound.

Hose Construction

Tube: Black, smooth, NBR rubber com-

pound, resistant to aviation gasoline and jet fuels having an aromatic content not exceeding 50 %

Reinforcement: Synthetic textile fabrics and

embedded nylon helix

Cover: Black, antistatic (R> 10^3 < $10^6 \Omega/m$),

CR rubber compound, resistant to mineral oil, fuels, abrasion, ozone

and weathering

Temperature Range

-40 °C (-40 °F) to +70 °C (+158 °F)



- Suggested brass fitting to prevent sparks
- Supplied with test report
- Design Factor 4:1
- Vacuum 0.65 bar

Tolerances

According to EN ISO 1825

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36522926/40	25	41	2.0	300.0	20	1.26	150	N
IH36522927/40	32	52	2.0	300.0	20	1.67	187	Ν
IH36522928/40	38	58	2.0	300.0	20	1.90	225	Ν
IH36522929/40	50	70	2.0	300.0	20	2.45	275	Ν
IH36522930/40	63.5	83.5	2.0	300.0	20	3.03	300	Ν
IH36522931/40	75	98	2.0	300.0	20	3.98	300	Ν
IH36522932/40	100	127	2.0	300.0	20	6.07	450	Ν







aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Automotive & Boat







B - Automotive & Boat

Hose	ID Range (mm)	Temp. Range (°C)	Application
RADIOR 10	7 - 15	-30 / +100	cooling line system
E-Z FROM GS	12.7 - 102	-45 / +125	high flexible hose for coolant line system
RADIOR DIN 6	10 - 50	-40 / +125	cooling line system
Series 6722	6 - 25	-54 / +177	Heater and cooling line system
AIRBRAKE DIN 74310	9 - 13	-40 / +70	breaking system
AIRBRAKE SAE J 1402-A	9.5 - 12.7	-46 / +100	breaking system
Series 395 SAE J 30R7	4.8 - 12.7	-40 / +125	car & motorbike fuel system
TBSE	4 - 10	-30 / +100	car & motorbike fuel system
TBE	3 - 7.5	-20 / +90	car & motorbike fuel system
CARBOBLUE N/L 10	16 - 25	-40 / +100	nox reducing system
CARBOBLUE N/L 20	6 - 25	-40 / +100	nox reducing system
WAVEMASTER™	6.3 - 16	-29 / +100	marine barrier fuel hose
SM/TR 311	19 - 127	-20 / +80	coolant line
SUPER-FLEX® FL-7	4.7 - 19.1	-40 / +125	low permation fuel hose
SUPER-FLEX® FL	4.7 - 15.9	-30 / +125	low permation fuel hose



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
EPDM	textile	EPDM	10	3			B4
EPDM	textile	EPDM	5	4	yes	SAE J 20R2 - D1	B5
EPDM	textile	EPDM	6	3			В6
SILICONE	textile	SILICONE	5.7	3		SAE J20R3 Class A	В7
EPDM	textile	EPDM	10	4		DIN 74310	B8
EPDM	textile	EPDM	16	4		SAE J 1402-A	В9
NBR	textile	CR	2.4 5.2	5		SAE 30 R7	B10
NBR	textile	NBR/EPDM	10	3			B11
NBR	textile		10	3			B12
EPDM	textile	EPDM	10	3			B13
EPDM	textile	EPDM	20	3			B13
NYLON	textile	NBR/PVC	7	4		Refer to the page	B14
NBR	textile	NBR/CR	3	> 3.5	yes	EN ISO 7840 A1	B15
NBR/THV	textile	CPE	3.4	5		SAEJ30R7/J30R14T2	B16
NBR/ barrier	textile	CPE	6.9	5		AEJ30R7/J30R14T2	B17



RADIOR 10

Flexible rubber hose for delivery of hot water in heating and cooling of automotive LPG and methane systems.

Hose Construction

Tube: Black, smooth EPDM nitrosamine

free rubber compound

Reinforcement: Synthetic textile yarns

Cover: Smooth, black, heat, ageing and

weather-resistant EPDM nitrosamine free rubber compound

Temperature Range

-30 °C (-22 °F) to + 100 °C (+212 °F) with peaks +120 °C (+248 °F)



- Specific for cooling system
- Robust structure to avoid kinking
- Design Factor 3:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30114029/100	7	13	1.0	150.0	10	0.13	50	N
IH30114030/100	15	23	1.0	150.0	10	0.35	90	Υ





E-Z FORM GS

Designed to handle air, coolant, mild chemicals and water. Extremely flexible, lightweight provides full suction capability and a path to conduct a static electrical charge to ground. The unique Greek cover corrugations provides minimal force-to-bend, superior kink resistance, and maximum flexibility for ease of handling, used where formed hose might normally be required.

Hose Construction

Tube: Black EPDM, antistatic rubber

compound

Reinforcement: Multiple textile plies with wire helix

Cover: Black EPDM rubber compound

resistant to weathering, greek

corrugated finish

Temperature Range

-45 °C (-50 °F) to +125 °C (+257 °F)



- Premium grade high temperature EPDM materials
- Saves time and costs thanks to easy and quick assembly
- Superior kink resistance, minimal force to bend, outstanding flexibility
- Performance equal to SAE J20R2-D1
- Design Factor 4:1
- Vacuum: 0.9 bar

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH73950500/10	12.7	23.8	0.5	75	5	0.4	23	Υ
IH73950625/10	15.9	27	0.5	75	5	0.49	33	Υ
IH73950750/10	19.1	30	0.5	75	5	0.52	36	Υ
IH73951000/10	25.4	36	0.5	75	5	0.61	36	Υ
IH73951125/10	29	38	0.5	75	5	0.62	46	Υ
IH73951250/10	32	43	0.5	75	5	0.75	56	Υ
IH73951375/10	35	46	0.5	75	5	0.79	71	Υ
IH73951500/10	38	49	0.5	75	5	0.85	74	Υ
IH73952000/10	51	63	0.5	75	5	1.44	117	Υ
IH73952250/10	57	70	0.5	75	5	1.61	165	Υ
IH73952375/10	60	73	0.5	75	5	1.64	175	Υ
IH73952500/10	63.5	76.5	0.5	75	5	1.74	183	Υ
IH73953000/10	76	90	0.5	75	5	2.23	223	Υ
IH73954000/10	102	116	0.5	75	5	3.28	340	Υ

RADIOR DIN 6 (COILS)

Designed for cooling systems of automotive engines and stationary engines and for refrigerant systems.

Hose Construction

Tube: Black, smooth, heat resistant

EPDM rubber compound

according to DIN 73411 - 1996*

Reinforcement: Synthetic textile fabrics yarns Cover: Black, smooth, wrapped finish,

heat, ageing and weather-resistant

EPDM rubber compound

according to DIN 73411 - 1996*

Temperature Range

-40 °C (-40 °F) to +125 °C (+257 °F) with peaks to +140 °C (+284 °F)



- Hose fully compliant to DIN73411 up to ID 25
- Compounds according to DIN 73411 for: tensile, strength, density, hardness, laceration, swellings, aging and dry residue
- Specific for cooling system at high temperature
- For Automotive and general industries application
- Design Factor 3:1
- Available on request in Cut Lenght of 1 m

Tolerances

I.D. ≤ 25 mm

according to UNI EN ISO 1307

I.D. > 25 mm

according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30836101/40	10	17	0.6	90.0	6.0	0.17	_	Υ
IH30836103/40	13	20	0.6	90.0	6.0	0.21	_	Υ
IH30836104/40	15	22	0.6	90.0	6.0	0.23	_	Υ
IH30836105/40	16	23	0.6	90.0	6.0	0.25	-	Υ
IH30836106/40	18	25	0.6	90.0	6.0	0.27	_	Υ
IH30836107/40	20	27	0.6	90.0	6.0	0.30	-	Υ
IH30836108/40	22	29	0.6	90.0	6.0	0.33	_	Υ
IH30836109/40	25	34	0.6	90.0	6.0	0.48	-	Υ
IH36836110/40	28	36	0.6	90.0	6.0	0.52	_	Υ
IH36836111/40	30	38	0.6	90.0	6.0	0.55	_	Υ
IH36836112/40	32	40	0.6	90.0	6.0	0.58	_	Υ
IH36836113/40	35	43	0.6	90.0	6.0	0.63	-	Υ
IH36836114/40	38	48	0.6	90.0	6.0	0.88	_	Υ
IH36836115/40	40	50	0.6	90.0	6.0	0.92	-	Υ
IH36836116/40	42	52	0.6	90.0	6.0	0.96	_	Υ
IH36836117/40	45	55	0.6	90.0	6.0	1.02	-	Υ
IH36836119/40	50	60	0.6	90.0	6.0	1.11	_	Υ





B6



Catalogue 4401/UK

^{*}The tube and the cover compounds are according to DIN 73411 - 1996 in the following principal areas: tensile, strength, density, hardness, laceration, swellings, aging and dry residue.



SERIES 6722

Parker Global Product

Extruded heater hose that meets or exceeds SAEJ20R3 Class A specifications. This product is utilized as standard equipment on trucks, cars and buses. Since this product is extruded it can be offered in long lengths, which saves money by reducing scrap. These hoses are resistant to coolant solutions, cracking, ozone, cold leaks, peeling and aging.

Hose Construction

Tube: Brick Red Silicone rubber com-

pound, heat and cold resistant

Reinforcement: High-temperature-resistant plies **Cover:** Blue, Silicone rubber resistant to

weathering, ozone and cracking

Temperature Range

-54 °C (-65 °F) to +177 °C (+350 °F)



- Specific for Heater and Cooling system on cars, trucks and buses
- For Automotive and general industries application
- According to SAE J20R3 Class A and SAE J2387
- Design Factor 3:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
6722-0250050	6	13	0.57	83	5.7	0.150	13	N
6722-0375050	10	18	0.57	83	5.7	0.196	19	N
6722-0500050	13	21	0.57	83	5.7	0.251	38	Υ
6722-0625050	16	24	0.57	83	5.7	0.357	44	Υ
6722-0750050	19	27	0.46	67	4.6	0.385	70	Υ
6722-1000050	25	34	0.40	58	4.0	0.506	127	Υ

coils of 15.24 m (50 feet)



AIRBRAKE DIN 74310

According to DIN 74310 Parker Global Product

Widely used in automotive air brake systems.

Hose Construction

Tube: Black, smooth EPDM nitrosamine

free rubber compound

Reinforcement: Stress-resistant, synthetic textile

yarns

Cover: Black, abrasion, ageing and weath-

er-resistant, smooth EPDM nitrosa-

mine free rubber compound

Temperature Range

-40 °C (-40 °F) to + 70 °C (+158 °F)



- Recommended DIN 74304 and DIN 74325 fittings and DIN 3017 clamps
- Automotive application
- Nitrosamine free compounds





Tolerances

According to DIN 74310
Refer to Technical Handbook on page TH35

Part Number	t Number Max. Workir				Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30315103/40	9	16	1.0	150.0	10	0.19	65	Υ
IH30315116/40	11	18	1.0	150.0	10	0.22	70	Υ
IH30315115/40	13	25	1.0	150.0	10	0.49	100	Υ

B8



AIRBRAKE SAE J 1402-A

According to SAE J 1402-A Parker Global Product

Widely used in automotive air brake systems.

Hose Construction

Tube: Black, smooth EPDM nitrosamine

free rubber compoun

Reinforcement: Synthetic textile yarns

Cover: Black, smooth, abrasion, ageing

and weather-resistant, smooth EPDM nitrosamine free rubber

compound

Temperature Range

-46 °C (-50 °F) to +100 °C (+212 °F)



- Tighter tolerances on ID and OD
- Automotive application
- Superior cover compound resistant to abrasion and weathering
- Design Factor 4:1

Tolerances

According to SAE J1402 – TABLE A Refer to Technical Handbook on page TH35

Part Number		Iominal Diameter		Max. Working Pressure			Weight	min. Bend Radius	in Stock
	(mm)	(inch)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30315117/153	9.5	3/8	19	1.6	225	16	0.3	45	Υ
IH30315119/153	12.7	1/2	22.2	1.6	225	16	0.39	50	Υ



SERIES 395 SAE J30R7

Series 395 is a fuel line/vapor emission hose for refined fuels such as biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol and gasoline. The hose is flexible for easy routing in and around small engines and small engine compartments, and the cover is resistant to abrasion, oil and weathering.

Hose Construction

Tube: Black nitrile

Reinforcement: Multiple textile plies

Cover: Black chloroprene; smooth finish

Temperature Range

-40 °C (-40 °F) to +125 °C (+257 °F)



- Low pressure fuel lines, vapor emission service
- B20, diesel, ethanol, gasoline
- Agricultural equipment, autos, buses, construction equipment, off-road equipment
- Design factor 5:1

Tolerances

According to SAE J30 R7
Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
39553	4.8	10.3	0.52	75	5.2	0.100	50.8	N
39550	6.4	12.7	0.34	50	3.4	0.164	50.8	Ν
39551	7.9	14.3	0.34	50	3.4	0.166	76.2	Υ
39552	9.5	15.9	0.34	50	3.4	0.200	88.9	Υ
39554	12.7	19.8	0.24	35	2.4	0.260	101.6	Υ

Supplied in reels of 250 feet each (76.2 m), with max 2 lengths at least 25 feet (7.62 m) long



B10



TBSE

Desigend for general applications in fuel systems where low permeability levels are required. Suitable for leaded and unleaded fuels and diesel.

Hose Construction

Tube: Black, oil and fuel resistant, smooth,

antistatic (R < 1 M Ω /m), NBR

rubber compound

Reinforcement: Synthetic textile yarns

Cover: Black, oil, fuel, abrasion, weather-

resistant, smooth, antistatic

 $(R < 1~M\Omega/m)$, NBR/EPDM rubber

compound

Temperature Range

-30 °C (-22 °F) to +100 °C (+212 °F)



- Antistatic cover and tube compounds
- Low permeability
- Suitable for B20 and E100 up to 70 °C
- Available packaging in reels for display stand
- Design Factor 3:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
Coils								
IH30871001/100	4	9	1.0	150.0	10	0.07	30	Υ
IH30871011/100	5	10	1.0	150.0	10	0.08	40	Υ
IH30871021/100	6	13	1.0	150.0	10	0.14	55	Υ
IH30871031/100	7	13	1.0	150.0	10	0.13	55	Υ
IH30871041/100	7.5	14	1.0	150.0	10	0.15	65	Υ
IH30871051/100	10	16	1.0	150.0	10	0.17	75	Υ
Reels								
IH30871001/15-R90*	4	9	1.0	150.0	10	0.07	30	Υ
IH30871011/15-R90*	5	10	1.0	150.0	10	0.08	40	Υ
IH30871021/15-R90*	6	13	1.0	150.0	10	0.14	55	Υ
IH30871031/15-R90*	7	13	1.0	150.0	10	0.13	55	Υ
IH30871041/15-R90*	7.5	14	1.0	150.0	10	0.15	65	Υ
IH30871051/10-R60**	10	16	1.0	150.0	10	0.17	75	Υ

^{*} box quantity = 6 x 15 m (reels)



^{**} box quantity = 6 x 10 m (reels)

TBE

Designed for particular applications in fuel systems where textile cover is requested. Suitable for leaded and unleaded fuels and diesel.

Hose Construction

Tube: Black, oil and fuel resistant, smooth

NBR rubber compound

Reinforcement/

Cover: High tensile polyester textile over-

braid, resistant to abrasion, fuel, oil

and weathering

Temperature Range

-20 °C (-4 °F) to +90 °C (+194 °F)



- Available in reels only
- Suitable for B20 and E100 up to 70 °C
- Designed for motorbike fuel supply
- Design Factor 3:1

Tolerances

On inside diameter: + 0 / - 0.5 mm

Length tolerance: ±1%

Part Number Max. Work					Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH11001300/15-R90*	3	7	1.0	150.0	10	0.04	30	Υ
IH11001345/15-R90*	7.5	14.5	1.0	150.0	10	0.13	65	Υ





CARBOBLUE N/L 10 - 20

Parker Global Product

Carboblue is specially designed for applications where there is a requirement for extracting NOx (nitrogen oxide and its mixtures that emit polluted substances into the environment during air combustion) and dramatically reducing exhaust gas from diesel engines. These objectives are included in European parameters EURO IV and EURO V.

Hose Construction

Tube: Black, smooth, antistatic

 $(R < 1 \ M\Omega/m)$ and sulphur free EPDM rubber compound nitrosamine free with peroxide curing.

Extensive tests on tensile stress, cold bending, heat, and laceration resistance on compound in contact with the additive did not show alteration of its state.

Reinforcement: Synthetic textile fabrics **Cover:** Black, smooth, antistatic

 $(R < 1 \ M\Omega/m)$, EPDM rubber compound nitrosamine free, ageing, heat and weather resistant



- Compatibility approved by Urea (AUS32) manufacturer and third part laboratory approved for ISO 22241
- Environmental friendly
- Nitrosamine free
- Design Factor 3:1



Temperature Range

-40 °C (-40 °F) +100 °C (+212 °F) with peaks up to +120 °C (+248 °C)

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
CARBOBLUE N/L 10	'	•	,					
IH30515030/100	16	23	1.0	150.0	10	0.27	100	Ν
IH30515031/80	19	27	1.0	150.0	10	0.37	115	Υ
IH30515032/50	25	36	1.0	150.0	10	0.68	150	Ν
CARBOBLUE N/L 20								
IH30515043/100	6	12	2.0	300.0	20	0.11	40	Υ
IH30515044/100	8	15	2.0	300.0	20	0.16	50	Υ
IH30515045/100	10	17	2.0	300.0	20	0.19	60	Ν
IH30515046/100	13	20	2.0	300.0	20	0.23	80	Ν
IH30515040/80	16	26	2.0	300.0	20	0.43	100	Υ
IH30515041/80	19	30	2.0	300.0	20	0.56	115	Ν
IH30515047/50	25	37	2.0	300.0	20	0.76	150	N





RUBBER HOSE CARBOBLUE W.P. bar

WAVEMASTER™

Parker Global Product

Premium low permeation fuel tank feed and vent hose for refined fuels such as biodiesel, alcohol blended fuels, diesel, ethanol and gasoline. Specially designed for marine applications. The hose incorporates a thermoplastic barrier to resist fuel permeation and the cover is resistant to abrasion, oil and weathering.

Hose Construction

Tube: Translucent Nylon **Reinforcement:** Multiple textile plies

Cover: Black nitrile/PVC; smooth finish

Temperature Range

-29 °C (-20 °F) to +100 °C (+212 °F)



- Meets or exceeds EN ISO 7840:2013 A1, ABYC, CARB, CE, EPA, NMMA, SAE J1527 A1-15, USCG A1
- Flexible for easy routing in engine compartments
- Ideal for feed line to fuel tanks where liquid fuel is continuously in the hose under normal conditions
- Biodiesel up to B100
- Design Factor 4:1

Tolerances

According to EN ISO 7840
Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
7165-25250	6,3	13,6	0,7	100	7,0	0,16	63,5	N
7165-31250	7,9	15,5	0,7	100	7,0	0,20	63,5	Ν
7165-38250	9,5	17,3	0,7	100	7,0	0,23	63,5	Υ
7165-50250	12,7	20,9	0,7	100	7,0	0,30	114,3	Υ
7165-63250	16,0	25,4	0,52	75	5,2	0,46	114,3	Υ

*supplied in reels of 76.2 m (250 feet) with max 2 lengths at least 15.24 m (50 feet) long



B14



SM TR 311

According to EN ISO 7840 A1

Designed and approved for use in water cooling exhaust gas systems and also as fire resistant fuel hose for craft. Suitable for general loading and unloading oils and fuel service.

Hose Construction

Tube: Black, smooth, oil and fuel resistant

NBR rubber compound

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wire to facilitate the electrical connection between the hose and the

end couplings

Cover: Smooth, black, selfextinguish-

ing NBR/CR rubber compound resistant to heat, oil, abrasion and marine environment. OND version is

corrugated.

Temperature Range

-20 °C (-4 °F) to +80 °C (+176 °F)



- Type approval by RINA
- Designed for exhaust gas and refueling
- Suitable for craft according to European Directive 94/25/EC
- Fire resistant fuel hose
- Design Factor > 3.5:1
- Vacuum 0.8 bar

Tolerances

According to EN ISO 7840:2013
Refer to Technical Handbook on page TH35

Note

Ondulated version on request

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36971010/40	19	29	0.3	43.5	3	0.59	60	Υ
IH36971011/40	25	35	0.3	43.5	3	0.7	75	Υ
IH36971012/40	32	42	0.3	43.5	3	0.84	100	Υ
IH36971013/40	38	48	0.3	43.5	3	1.05	115	Υ
IH36971014/40	45	55	0.3	43.5	3	1.25	145	Υ
IH36971015/40	50	60	0.3	43.5	3	1.65	175	Υ



SUPER-FLEX® FL-7

Parker Global Product

Fuel line/vapor emission hose for refined fuels such as biodiesel, diesel, ethanol and gasoline. The hose incorporates a THV barrier to resist permeation, multiple aramid plies of reinforcement for coupling retention, durability and kink resistance, the cover is resistant to abrasion, oil and weathering. The hose is flexible for easy routing in and around small engines and small engine compartments. Permeation value less than 15g/m²/day.

Hose Construction

Tube: Black nitrile and translucent

THV barrier

Reinforcement: Multiple aramid plies **Cover:** Black CPE, smooth finish

Temperature Range

-40 °C (-40 °F) to +125 °C (+ 257 °F)



- Meets CARB 2006 SORE, EPA, SAE J30R7, SAE J30R14T2
- Ideal for blowers, grinders, mowers, offroad engines & equipments, pressure washers, saws, agricultural equipment, autos, buses, construction equipment
- Biodiesel up to B20
- Design Factor 5:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
38903	4.8	10.3	0.34	50	3.4	0.10	33.0	Υ
38904	6.4	12.7	0.34	50	3.4	0.13	38.1	Υ
38905	7.9	14.3	0.34	50	3.4	0.16	50.8	Υ
38906	9.8	15.8	0.34	50	3.4	0.16	63.5	Υ
38908	12.7	19.8	0.34	50	3.4	0.26	101.6	Υ
38910	15.9	23.9	0.24	35	2.4	0.36	127.0	N
38912	19.1	28.6	0.24	35	2.4	0.52	152.4	N

Supplied in reels of 250 feet each (76.2 m), with max 2 lengths at least 25 feet (7.62 m) long



Parker SERIES 389 SUPER-FLEX® FL-7 (ID) SAE J30R7/R14T2 FUEL LINE (x)PKHPLINE389 EPA COMPLIANT 15 g/m2/day CARB Q-08-

B16

Catalogue 4401/UK



SUPER-FLEX® FL

Parker Global Product

Fuel line/vapor emission hose for refined fuels such as diesel, ethanol and gasoline. The hose incorporates a thermoplastic barrier to resist permeation and the cover is resistant to abrasion, oil and weathering. The hose is flexible for easy routing in and around small engines and small engine compartments. Permeation value less than 15g/m²/day.

Hose Construction

Tube: Black nitrile and translucent

thermoplastic barrier

Reinforcement: One textile braid or multiple

textile plies

Cover: Black CPE, smooth finish

Temperature Range

-30 °C (-34 °F) to +125 °C (+ 257 °F)



- Meets CARB 2006 SORE, EPA, SAE J30R7/J30R14T2 (Performance)
- Ideal for blowers, grinders, mowers, offroad engines & equipment, pressure washers, saws, Agricultural equipment, autos, buses
- Biodiesel up to B100
- Design Factor 5:1

Tolerances

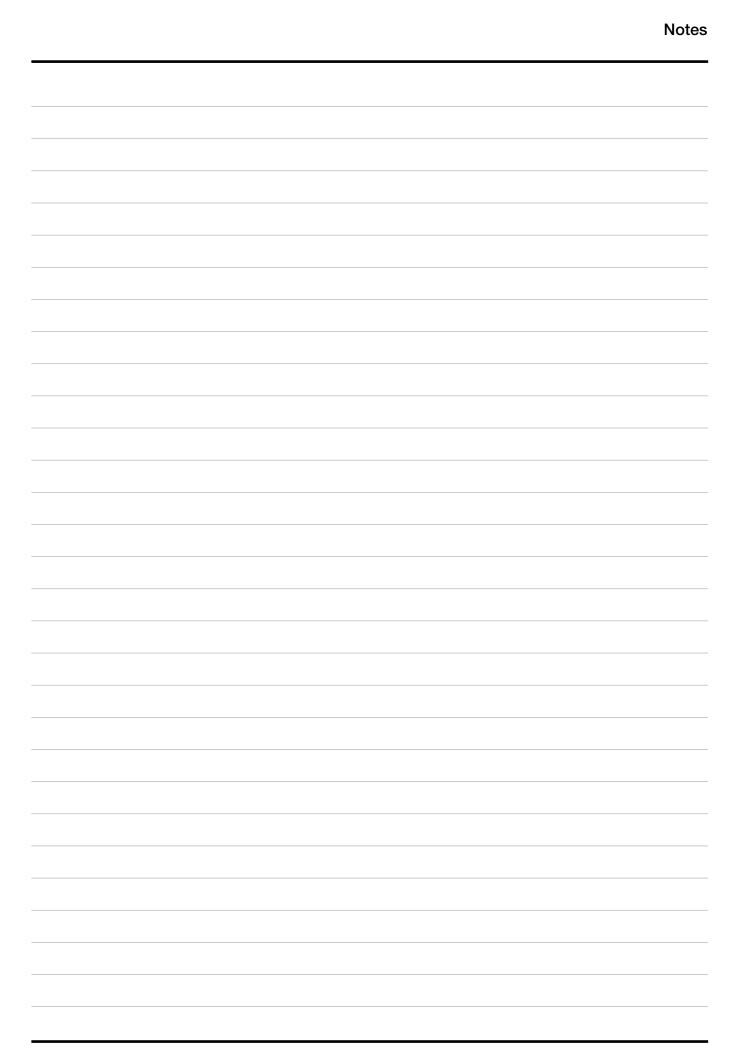
According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
39703	4.7	11.1	0.69	100	6.9	0.10	33.0	Υ
39704	6.4	12.7	0.69	100	6.9	0.13	38.1	Υ
39705	7.9	14.2	0.69	100	6.9	0.16	50.8	Υ
39706	9.5	15.9	0.69	100	6.9	0.16	63.5	Υ
39708	12.7	17.7	0.69	100	6.9	0.26	101.6	Υ
39710	15.9	23.9	0.24	35	2.4	0.33	127.0	N

Supplied in reels of 250 feet each (76.2 m), with max 3 lengths at least 25 feet (7.62 m) long



B17









aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Air







C - Air

Hose	ID Range (mm)	Temp. Range (°C)	Application
MINIERA 10	25 - 50	-30 / +80	compressed air, non aggressive liquids
MINIERA 20 MSHA	19 - 100	-30 / +80	compressed air, non aggressive liquids
MINIERA 40	25 - 51	-40 / +100	mine & quarries for long lasting service
AIRTEMP 220	51 - 80	-40 / +220	hot air for compressors and pneumatic s
MASKPRESS EN 14594 Class B	9.5	-30 / +80	breathing system
DIVER 100 EN 250	6.3 - 8	-30 / +80	breathing system



	Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
	SBR	textile	SBR	10	3			C4
	SBR/NBR	textile	CR	20	3		MSHA	C5
	NBR	steel wire	SBR/CR	40	4			C6
Sys.	EPR	textile	EPDM	10	3			C 7
	NBR	textile	CR	10	10		EN 14594 Class B	C8
	EPDM	textile	EPDM	35	4		EN250	C9



MINIERA 10

Suitable for compressed air tools (with minimal oil traces) in factories and designed for quarries, building and mining industries.

Hose Construction

Tube: Black, oil mist resistant, smooth

SBR nitrosamine free rubber com-

pound

Reinforcement: Synthetic textile fabrics

Cover: Black, abrasion, ageing and

weather-resistant SBR nitrosamine

free rubber compound

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F)



- Also suitable for water and air in general service applications
- Nitrosamine free compounds
- Design Factor 3:1



Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36342181/40	25	35	1.0	150.0	10	0.70	250	Υ
IH36342182/40	30	40	1.0	150.0	10	0.81	300	N
IH36342184/40	35	45	1.0	150.0	10	0.92	350	Υ
IH36342185/40	40	50	1.0	150.0	10	1.02	400	Ν
IH36342186/40	45	55	1.0	150.0	10	1.14	450	Ν
IH36342187/40	50	60	1.0	150.0	10	1.25	500	Υ



MINIERA 20 MSHA

Suitable for compressed air tools in factories and designed for quarries, building and mining industries. Tube resistant to traces of oil mist for medium duty.

Hose Construction

Tube: Black, oil mist resistant, smooth

SBR/NBR rubber compound

Reinforcement: Synthetic textile fabrics

Cover: Black, abrasion, ageing and

weather-resistant CR nitrosamine

free rubber compound

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F)



- Also suitable for water and air in general service applications
- Nitrosamine free compounds



MSHA approved cover



Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36341113/40	19	30	2.0	300.0	20	0.62	190	Υ
IH36341110/40	25	37	2.0	300.0	20	0.81	250	Υ
IH36341149/40	30	42	2.0	300.0	20	0.98	300	Ν
IH36341106/40	32	46	2.0	300.0	20	1.24	320	Υ
IH36341121/40	38	52	2.0	300.0	20	1.43	380	Υ
IH36341120/40	40	56	2.0	300.0	20	1.73	400	Ν
IH36341109/40	45	61	2.0	300.0	20	1.91	450	Ν
IH36341114/40	50	66	2.0	300.0	20	2.08	500	Υ
IH36341116/40	60	76	2.0	300.0	20	2.38	600	Υ
IH36341117/20	75	91	2.0	300.0	20	2.89	750	N
IH36341119/20	100	118	2.0	300.0	20	4.23	1000	N



MINIERA 40

Compressed air for mine and quarries, designed for long lasting service and maximum safety in heavy duty applications.

Hose Construction

Tube: Black, NBR rubber compound,

oil resistant

Reinforcement: One special braid of steel wire

Cover: Black SBR/CR rubber compound,

abrasion, oils, ozone and weather

resistant

Temperature Range

-40 °C (-40 °F) to +100 °C (+212 °F)



- Heavy duty application
- Specific for compressed air tools in mining
- Low temperature resitance
- Design Factor 4:1

Tolerances

According to BS 5118/34310
Refer to Technical Handbook on page TH35

Part Number		Iominal Diameter		Max. Working Pressure			Weight	min. Bend Radius	in Stock
	(mm)	(inch)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36348003/40	25	1	38	4.0	580.0	40	1.06	300	N
IH36348004/40	32	1 1/4	46	4.0	580.0	40	1.45	380	Ν
IH36348005/40	38	1 ½	52	4.0	580.0	40	1.80	455	Ν
IH36348000/40	51	2	66	4.0	580.0	40	2.30	600	Ν





Hot air delivery hose designed for compressors and pneumatic systems like flexible connection between motor blower and road tanker used for dry pellets, abrasive powders and granular material transport.

Hose Construction

Tube: Black, smooth, insulating, EPR

rubber compound with very good resistance to high temperature

Reinforcement: Synthetic textile fabrics yarns Black (N), smooth, insulating, Cover:

wrapped finish EPDM rubber compound, resistant to heat, abrasion,

ozone and weather

Temperature Range

-40 °C (-40 °F) to +220 °C (+435 °F) with peaks to +240 °C (+465 °F)



- Wide temperature range
- Insulating hose
- Could be complementary to **CERGOM**
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36346010/40	51	69	1.0	150.0	10.0	1.85	350	N
IH36346011/40	60	78	1.0	150.0	10.0	2.13	420	Ν
IH36346012/20	65	83	1.0	150.0	10.0	2.40	455	Ν
IH36346013/20	75	93	1.0	150.0	10.0	2.62	550	Ν
IH36346014/20	80	98	1.0	150.0	10.0	2.65	600	Ν







MASKPRESS EN 14594 CLASS B

According to EN 14594 Class B

Flexible hose designed for air supply in breathing devices for fire-fighting operations. Meets the requirements of UNI EN 14594 (points 6,12 - 6,13 relevant to hose without fittings).

Hose Construction

Tube: Black, NBR rubber compound.

Heat, ageing and air resistant

Reinforcement: Synthetic textile braided

Cover: Black, smooth CR rubber com-

> pound, resistant to abrasion, sea water, heat and weathering

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F)



- Tube compound vanilla flavor
- For assembly operation refer to the norm
- Suitable also for industrial safety
- Design Factor 10:1

Tolerances

According to UNI EN ISO 1307 Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30310130/0	9.5	19	1.0	150.0	10	0.33	60	Υ





According to EN 250

Flexible hose for air supply in scuba diving systems. Designed to exceed the UNI EN 250 standard requirements (point 5,7) flexible hoses for medium pressure, related to tests on loose hoses (not assembled).

Hose Construction

Tube: Black, smooth, heat and ageing

resistant EPDM nitrosamine free

rubber compound

Reinforcement: Synthetic textile yarns

Black, smooth EPDM nitrosamine Cover:

> free rubber compound, resistant to abrasion, sea water, heat and

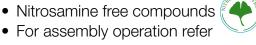
weathering

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F)



- Tube compound vanilla flavor
- Nitrosamine free compounds



to the norm Design Factor 4:1

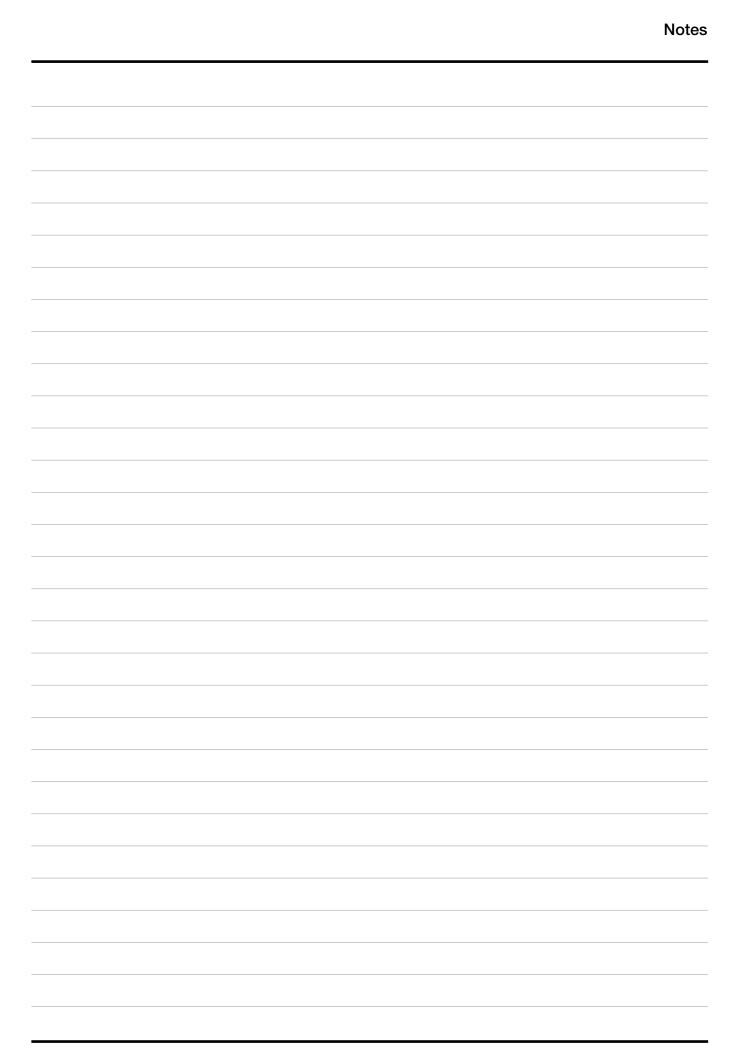
Tolerances

According to EN 250

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30310133/100	6.3	12.3	3.5	510.0	35	0.12	60	Ν
IH30310126/100	7.3	13.7	3.5	510.0	35	0.15	75	Ν
IH30310124/100	8	14	3.5	510.0	35	0.14	80	Ν

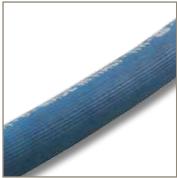






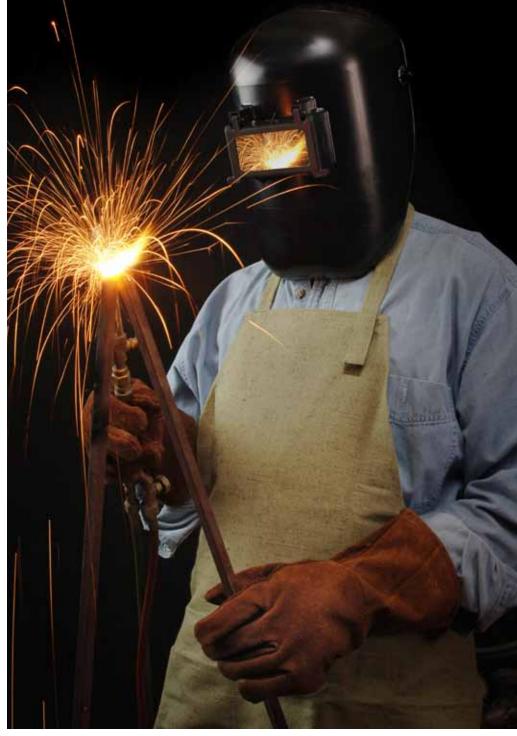






aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Gas







D - Gas

Hose	ID Range (mm)	Temp. Range (°C)	Application
AUTOGENE EN ISO 3821 NR/L - NB/L 20	6.3 - 10	-25 / +80	welding process
BIPRESS EN ISO 3821 B-R/L 20	6.3 - 9	-25 / +80	welding process
INERPRESS EN ISO 3821 N/L 20	6.3 - 10	-25 / +80	inert gas delivery
PROPANPRESS EN ISO 3821 NA/L 20	6.3 - 10	-30 / +70	propan gas delivery
CARBO G NW/L 10 – NB/R 10	8 - 13	-20 / +90	household applicances



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
EPDM/ SBR	textile	EPDM	20	3		EN ISO 3821	D4
EPDM/ SBR	textile	EPDM	20	3		EN ISO 3821	D5
EPDM	textile	EPDM	20	3		EN ISO 3821	D6
NBR/NR	textile	EPDM	20	3		EN ISO 3821	D7
NBR	textile	EPDM	10	3		UNI CIG 7140	D8





AUTOGENE EN ISO 3821 NR/L - NB/L 20

According to EN ISO 3821

Designed for delivery of welding and allied process gases.

Hose Construction

Tube: Black, smooth EPDM rubber com-

pound resistant to Acetylene gas (Red cover). Black, smooth EPDM/SBR rubber compound resistant to Oxygen gas (Blue cover). Not suitable for LPG, good resistance to

ignition (Red and Blue)

Reinforcement: Synthetic textile yarns

Cover: Smooth, red (NR) or blue (NB)

EPDM rubber compound resistant to abrasion, ageing hot surfaces and incandescent particles

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F)



- For welding in industrial and domestic application
- Colored cover following specs indication: Red for Acetylene and Blue for Oxygen
- Exceeds the standard on backfire test
- Excellent flexibility
- Design Factor 3:1

Tolerances

According to EN ISO 3821

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
AUTOGENE EN ISO 3	821 NR/L 20							
IH30412803/40	6.3	13.3	2.0	300.0	20	0.15	40	Υ
IH30412914/100	8	15	2.0	300.0	20	0.17	40	Υ
IH30412716/40	9	16	2.0	300.0	20	0.19	45	Υ
IH30412716/100	9	16	2.0	300.0	20	0.19	45	Υ
IH30413221/40	10	17	2.0	300.0	20	0.20	50	Υ
IH30413221/100	10	17	2.0	300.0	20	0.20	50	Υ
AUTOGENE EN ISO 3	821 NB/L 20							
IH30412703/40	6.3	13.3	2.0	300.0	20	0.15	40	Υ
IH30412915/100	8	15	2.0	300.0	20	0.17	40	Υ
IH30412707/40	9	16	2.0	300.0	20	0.22	50	Υ
IH30412707/100	9	16	2.0	300.0	20	0.22	50	Υ
IH30413220/40	10	17	2.0	300.0	20	0.24	50	Υ

IMPORTANT

Welding applications can be hazardous. Please take all the necessary safety precautions.

RUBBER HOSE – EN ISO 3821 – 2 MPa (20 bar) – I.D. (Year with traceability code)	Parker	мсхх
RUBBER HOSE – EN ISO 3821 – 2 MPa (20 bar) – I.D. (Year with traceability code)	Parker	мсхх





BIPRESS EN ISO 3821 B-R/L 20

According to EN ISO 3821

A dual line hose designed for Welding Gas equipment, cutting and allied processes.

Hose Construction

Tube: Black, smooth EPDM/SBR rubber

compound, resistant to Welding

Gases

Reinforcement: Synthetic textile yarns

Cover: Red and blue, ageing and abrasion-

resistant, smooth EPDM rubber

compound

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F)



- For welding in industrial and domestic application
- Colored cover following specs indication: Red for Acetylene

and Blue for Oxygen

- Exceeds the standard on backfire test
- Excellent flexibility
- Design Factor 3:1

Tolerances

According to EN ISO 3821

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30401107/40	6.3+6.3	13	2.0	300.0	20	0.31	-	Υ
IH30401106/40	6.3+9	16	2.0	300.0	20	0.49	_	Υ
IH30401108/100	8+8	15	2.0	300.0	20	0.41	_	Υ
IH30401111/40	9+9	16	2.0	300.0	20	0.43	-	Υ

IMPORTANT!

Welding applications can be hazardous. Please take all the necessary safety precautions.

RUBBER HOSE – EN ISO 3821 – 2 MPa (20 bar) – I.D. (Year with traceability code)	-Parker	мсхх
RUBBER HOSE – EN ISO 3821 – 2 MPa (20 bar) – I.D. (Year with traceability code)	- Parker	MCXX





INERPRESS EN ISO 3821 N/L 20

According to EN ISO 3821

Designed for delivery of inert gases.

Hose Construction

Tube: Black, smooth EPDM rubber com-

pound, resistant to inert gases. Not

suitable for LPG

Reinforcement: Synthetic textile yarns

Cover: Smooth (/L), EPDM rubber com-

pound resistant to abrasion, ageing

Temperature Range

-25 °C (-13 °F) to +80 °C (+176 °F)



- For handling inert and noble gas
- Black cover following specs indication
- Excellent flexibility
- Design Factor 3:1

Tolerances

According to EN ISO 3821
Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30412940/40	6.3	13.3	2.0	300.0	20	0.17	40	Υ
IH30413603/80	8	15	2.0	300.0	20	0.17	40	Υ
IH30412941/40	10	17	2.0	300.0	20	0.20	50	Υ





PROPANPRESS EN ISO 3821 NA/L 20

According to EN ISO 3821

Suitable for LPG in industrial applications.

Hose Construction

Tube: Black, LPG resistant smooth NBR/

NR rubber compound

Reinforcement: Synthetic textile yarns

Cover: Orange, smooth EPDM rubber

compound resistant to ageing and weathering, pin-pricked cover to prevent blisters during use

Temperature Range

-30 °C (-22 °F) to +70 °C (+158 °F)



- Orange cover following specs indication
- Flexible hose for easy handling
- Design Factor 3:1

Tolerances

According to EN ISO 3821

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30413456/100	6.3	13.3	2.0	300.0	20	0.16	50	Υ
IH30413457/100	8	15	2.0	300.0	20	0.18	65	Υ
IH30413459/100	8.5	16	2.0	300.0	20	0.21	70	Υ
IH30413458/100	10	17	2.0	300.0	20	0.22	80	Υ



MCXX



CARBO G NW/L 10 - NB/R 10

According to UNI 7140

Connection of household appliances to the gas line (NW/L) or to LPG bottles (NB/R).

Hose Construction

Tube: Black, smooth NBR rubber com-

pound, suitable for Domestic Gas

Reinforcement: Synthetic textile yarns

Cover: White (NW) or blue (NB), ageing-

resistant, smooth (/L) or ribbed (/R)

EPDM rubber compound

Temperature Range

-20 °C (-4 °F) to +90 °C (+194 °F)



- Quarterly tested by IMQ (Italian Institute of Quality Approval)
- Low permeability
- Superior tensile strength
- White smooth cover for indoor and blue ribbed cover for outdoor
- Design Factor 3:1

Tolerances

According to UNI 7140
Refer to Technical Handbook on page TH35

Part Number			Wax. Working Fressure		Weight	min. Bend Radius	in Stock	
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
CARBO G NB/R 10						-		
IH30551594/100	8	13	1.0	150.0	10	0.145	45	Υ
CARBO G NW/L 10								
IH30551600/100	13	20	1.0	150.0	10	0.310	70	Υ



D8





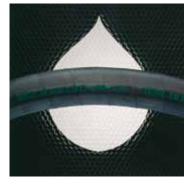


aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Water







E - Water

Hose	ID Range (mm)	Temp. Range (°C)	Application
FUCINO 10	25 - 100	-30 / +80	water, non aggressive liquids
FUCINO 20	50 - 120	-30 / +80	water, non aggressive liquids
PRESSCORD N/R 10	8 - 25	-30 / +80	water, non aggressive liquids
IDRO 10	25 - 75	-30 / +80	water, non aggressive liquids
BEVERA 10	19 - 203	-30 / +80	water, non aggressive liquids
IR Irrigation PU Hose	51 - 150	-40 / +80	irrigation and water transfert
APEERFLAT MB	25 - 200	-15 / +60	water, non aggressive liquids
MULTIREX	19 - 150	-10 / +60	water, non aggressive liquids



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
SBR	textile	SBR	10	3			E4
SBR	textile	SBR	20	3			E 4
SBR	textile	SBR/EPDM	10	3			E 5
SBR	textile	SBR	10	3			E6
SBR	textile	SBR	10	3	yes		E 7
PU	textile	PU	20	2			E8
PVC	textile	PVC	8	4			E 9
PVC	PVC wire	PVC	7	3	yes		E10s





FUCINO 10 - 20

Suitable for a variety of industrial applications, where a flexible and lightweight discharge hose for water and non-aggressive liquids are required. Specifically designed for irrigation equipment and submersible pumps.

Hose Construction

Tube: Black, smooth SBR nitrosamine free

rubber compound

Reinforcement: Synthetic textile fabrics

Cover: Black, abrasion, ageing and

weather-resistant SBR nitrosamine

free rubber compound

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F)



- Can be rolled flat for easy transport and storage
- Resistant to Ozone and weathering
- Available in two different pressure rates
- Nitrosamine free
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
FUCINO 10	•	•	,		,			
IH36203251/40	25	33	1.0	150.0	10	0.38	-	Υ
IH36203253/40	32	39	1.0	150.0	10	0.47	_	Ν
IH36203240/40	38	45	1.0	150.0	10	0.65	-	Ν
IH36203255/40	40	48	1.0	150.0	10	0.68	_	Υ
IH36203256/40	45	53	1.0	150.0	10	0.75	-	Ν
IH36203257/40	50	58	1.0	150.0	10	0.83	_	Υ
IH36203258/40	60	67	1.0	150.0	10	0.99	-	Υ
IH36203263/20	100	110	1.0	150.0	10	1.78	_	Ν
FUCINO 20								
IH36203276/40	50	58	2.0	300.0	20	0.94	-	Ν
IH36203278/40	60	68	2.0	300.0	20	1.10	-	Υ
IH36203280/20	80	91	2.0	300.0	20	2.05	_	Υ
IH36203282/20	100	113	2.0	300.0	20	2.97	-	Υ
IH36203283/20	120	133	2.0	300.0	20	3.52	_	Υ



PRESCORD N/R 10

Suitable for discharge of water and nonaggressive liquids in many industrial and agricultural applications.

Hose Construction

Tube: Black, smooth SBR nitrosamine free

rubber compound

Reinforcement: Synthetic textile yarns

Cover: Black (N), ribbed (/R), abrasion,

ageing and weather-resistant, SBR/

EPDM nitrosamine free rubber compound

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F)



- Resistant to Ozone and weathering
- Nitrosamine free
- Ribbed cover for better flexibility and grip
- Design Factor 3:1



Tolerances

According to UNI EN ISO 1307 Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30116062/100	8	15	1.0	150.0	10	0.19	50	Υ
IH30116063/100	10	17	1.0	150.0	10	0.22	60	Υ
IH30112103/100	12	19	1.0	150.0	10	0.26	70	Υ
IH30112139/100	15	21	1.0	150.0	10	0.25	90	Υ
IH30112136/50	18	26	1.0	150.0	10	0.42	110	Υ
IH30112138/50	20	30	1.0	150.0	10	0.59	120	Υ
IH30112134/50	25	35	1.0	150.0	10	0.71	150	Υ





RUBBER HOSE PRESCORD W.P. bar



IDRO 10

Suitable for discharge of water and nonaggressive liquids, for agricultural uses, also in industrial facilities and on building sites.

Hose Construction

Tube: Black, smooth SBR nitrosamine free

rubber compound

Reinforcement: Synthetic textile fabrics **Cover:** Black: abrasion, ageing and

weather-resistant SBR nitrosamine

free rubber compound

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F)



- Robust construction
- Resistant to twisting
- Nitrosamine free
- Design Factor 3:1



Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36203000/40	25	34	1.0	150.0	10	0.63	250	Υ
IH36203002/40	30	41	1.0	150.0	10	0.92	300	Υ
IH36203003/40	32	44	1.0	150.0	10	1.07	320	Υ
IH36203004/40	35	48	1.0	150.0	10	1.26	350	Υ
IH36203005/40	38	52	1.0	150.0	10	1.46	380	Υ
IH36203006/40	40	54	1.0	150.0	10	1.52	400	Υ
IH36203008/40	45	61	1.0	150.0	10	2.00	450	Υ
IH36203010/40	50	68	1.0	150.0	10	2.49	500	Υ
IH36203011/40	60	82	1.0	150.0	10	3.63	600	Υ
IH36203103/20	75	91	1.0	150.0	10	2.95	750	Ν



BEVERA 10

Suction and delivery of water and non-aggressive liquids. It is recommended for loading and discharge of storage tanks, tankers, for irrigation and for all applications where a flexible and easy to handle hose is required.

Hose Construction

Tube: Black, smooth SBR nitrosamine free

rubber compound

Reinforcement: Synthetic textile fabrics and

embedded steel wire helix

Cover: Black, abrasion, ageing and

weather-resistant SBR nitrosamine

free rubber compound

Temperature Range

-30 °C (-22° F) to +80 °C (+176 °F)

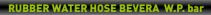


- Robust construction
- Resistant to twisting
- Nitrosamine free
- Vacuum 0.8 bar (600 mm Hg)
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36214045/40	19	29	1.0	150.0	10	0.67	110	Υ
IH36214050/40	25	35	1.0	150.0	10	0.83	150	Υ
IH36214051/40	30	40	1.0	150.0	10	0.95	180	Ν
IH36214052/40	32	42	1.0	150.0	10	1.01	190	Υ
IH36214054/40	38	48	1.0	150.0	10	1.16	230	Υ
IH36214055/40	40	50	1.0	150.0	10	1.21	240	Υ
IH36214058/40	50	60	1.0	150.0	10	1.50	300	Υ
IH36214060/40	60	71	1.0	150.0	10	1.94	360	Υ
IH36214063/20	70	81.5	1.0	150.0	10	2.59	420	Ν
IH36214064/20	75	86.5	1.0	150.0	10	2.75	450	Υ
IH36214066/20	80	92.5	1.0	150.0	10	3.02	480	Υ
IH36214067/20	90	103.5	1.0	150.0	10	3.66	540	Ν
IH36214068/20	100	114	1.0	150.0	10	3.98	600	Υ
IH36214070/20	110	124	1.0	150.0	10	4.34	660	Ν
IH36214071/20	120	134	1.0	150.0	10	4.73	720	Ν
IH36211010/20	125	140	1.0	150.0	10	5.66	750	Υ
IH36211050/10	150	170	1.0	150.0	10	7.73	900	Ν
IH36211032/6	203	225	1.0	150.0	10	15.00	1210	Ν









IR IRRIGATION PU HOSE

A standard duty irrigation hose for water discharge and transfer in agricultural applications.

Hose Construction
Polyurethane extruded through
one woven polyester ply of reinforcement

Temperature Range -40 °C (-40 °F) to +80 °C (+176 °F)



- Much easier to couple, install and remove than polyethylene pipe
- High performing polymer preserve from fluid contamination
- Excellent resistance to abrasion
- Design Factor 2:1

Part Number		lominal Diameter		Ma Wo	x. rking Pres	sure	Weight	min. Bend Radius	in Stock	
	(mm)	(inch)	Wall (mm)	MPa	psi	bar	kg/m	mm		
IR20X200MB	51	2	2.30	3.1	450.0	31	0.41	_	N	
IR25X200MB	63.5	2 ½	2.30	3.1	450.0	31	0.58	_	N	
IR30X200MB	76	3	3.30	2.4	350.0	24	0.75	_	Υ	
IR35X200MB	90	3 ½	3.30	1.7	250.0	17	0.97	_	Υ	
IR40X200MB	102	4	3.30	1.7	250.0	17	1.14	_	Υ	
IR45X200MB	114	4 ½	3.30	1.7	250.0	17	1.25	_	Υ	
IR50X200MB	127	5	3.30	1.7	250.0	17	1.42	_	Υ	
IR60X200MB	152	6	3.05	2.0	300.0	20	1.72	-	Υ	





E8





APERFLAT MB

Medium-duty, flat wrappable hose occupying a minimum amount of space, suitable for delivery under pressure of water and non-aggresive liquids in agriculture, in the building industry, in mining and in industry in general.

Hose Construction

Tube: Black, smooth PVC **Reinforcement:** Synthetic textile yarns

Cover: Blue, highly abrasion and weather-

resistant smooth PVC

Temperature Range

-15 °C (+5 °F) to +60 °C (+140 °F)



- Lay flat hose
- Cheaper alternative to PU for less demanding application
- Design Factor 3:1

Tolerances

Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH35653025/100	25	_	0.8	116.0	8	0.17	_	Υ
IH35653032/100	32	-	0.8	116.0	8	0.21	-	Υ
IH35653038/100	38	_	0.8	116.0	8	0.25	_	Υ
IH35653040/100	40	-	0.8	116.0	8	0.26	-	Υ
IH35653045/100	45	_	0.8	116.0	8	0.29	_	Ν
IH35653051/100	51	-	0.8	116.0	8	0.37	-	Υ
IH35653063/100	63.5	_	0.8	116.0	8	0.46	_	Υ
IH35653075/100	75	-	0.8	116.0	8	0.55	-	Υ
IH35653100/100	100	_	0.8	116.0	8	0.83	_	Υ
IH35653150/100	150	-	0.3	43.5	3	1.25	-	Ν
IH35653200/50	200	_	0.3	43.5	3	1.93	_	Ν

APERFLAT MB DIAM. I.D. mm PARKER







MULTIREX

For suction and delivery of water for irrigation, liquid fertilisers and general industrial uses.

Hose Construction

Flexible hose having an off-white, rigid PVC spiral embedded in a transparent green, flexible PVC wall

Temperature Range

-10 °C (+14 °F) to +60 °C (+140 °F)



- Multipurpose hose
- Very flexible hose
- Vacuum 0.7 bar for ID up to 50 mm then 0.6 bar
- Design Factor 3:1

Tolerances

Refer to Technical Handbook on page TH35

Part Number			Max	Max. Working Pressure			min. Bend Radius	in Stock
	I.D. (mm)	Wall (mm)	MPa	psi	bar	kg/m	mm	
IH35602019/50	19	3.0	0.7	101.5	7	0.20	60	Υ
IH35600025/50	25	3.0	0.7	101.5	7	0.29	90	Υ
IH35600030/50	30	3.1	0.6	87.0	6	0.35	90	Υ
IH35602032/50	32	3.2	0.6	87.0	6	0.37	95	Υ
IH35600035/50	35	3.5	0.6	87.0	6	0.43	105	Ν
IH35602038/50	38	3.6	0.6	87.0	6	0.49	115	Υ
IH35600040/50	40	3.7	0.6	87.0	6	0.51	120	Υ
IH35600045/50	45	4.0	0.5	72.5	5	0.57	135	Υ
IH35600050/50	50	4.0	0.5	72.5	5	0.73	150	Υ
IH35600060/50	60	4.2	0.5	72.5	5	0.96	180	Υ
IH35600070/50	70	4.5	0.4	58.0	4	1.23	315	Ν
IH35602075/50	75	4.6	0.4	58.0	4	1.47	340	Υ
IH35600080/50	80	4.7	0.4	58.0	4	1.57	360	Υ
IH35602090/25	90	4.8	0.4	58.0	4	1.92	415	N
IH35600100/25	100	5.0	0.4	58.0	4	2.11	450	Υ
IH35602110/25	110	5.4	0.4	58.0	4	2.56	500	N
IH35600120/25	120	5.8	0.4	58.0	4	2.69	540	Ν
IH35600150/25	150	6.5	0.3	43.5	3	3.85	675	Ν







aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

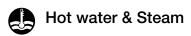




Hot water & Steam







F - Hot water & Steam

Hose	ID Range (mm)	Temp. Range (°C)	Application
RADIOR 3	10 - 100	-40 / +100	cooling line system
RADIOR K 1003	12 - 65	-40 / +100	cooling line system
THERMOPRESS 10	12 - 60	-40 / +100	cooling line and hot water
INGLAS +	10 - 85	-10 / +120	foudries cooling system
CALORE PLUS	9.5 - 25	-35 / +140	hot water and steam
VAPORE 164 EN ISO 6134 Type 1/A	10 - 51	-40 / +164	steam industrial application
VIGOR 2 EN ISO 6134 Type 2/A	13 - 51	-40 / +210	steam industrial application
VIGOR 2 NR EN ISO 6134 Type 2/A	13 - 51	-40 / +210	steam industrial application

WARNING!

Steam hoses gradually decrease in performance during service life. Consequently, they need to be regularly inspected by trained personnel wearing adequate protective overalls, including eye protection.

Cuts and gouges in the hose cover showing the textile reinforcement. Steam leaks.Permanent deformation of hose. Reduction of steam flow. WHEN ONE OF THESE ABNORMALITIES OCCURS, THE HOSE SHOULD BE REMOVED FROM SERVICE AND INSPECTED. If a failure occurs close to the couplings, the damaged hose can be cut, reconnected and used as before.

Use only couplings with safety clamps. Follow the coupling manufacturer's instructions for coupling procedures. Check coupling tightness each time before use. Drain after use. When not in use, store the hose on a flat surface (shelves) and never hang from a hook.



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
EPDM	textile	EPDM	3	3			F4 - F5
NBR	textile	CR	5	3			F6
EPDM	textile	EPDM	10	4			F 7
EPDM	textile	EPDM/SBR	15	3			F8
EPM	textile	CPE	20	3			F9
EPM	textile	EPDM	6	10		EN ISO 6134 Type 1/A	F10
EPDM	textile	EPDM	18	10		ENISO6134Type2/A	F11
EPDM	textile	EPDM	18	10		ENISO6134Type2/A	F11



RADIOR 3 (COIL)

Designed for cooling systems of automotive engines and stationary engines.

Hose Construction

Tube: Black, smooth, heat resistant EPDM

nitrosamine free rubber compound

Reinforcement: Synthetic textile yarn fabric **Cover:** Black, smooth, heat, ageing

and weather-resistant EPDM

nitrosamine free rubber compound

Temperature Range

-40 °C (-40 °F) to peaks of +100 °C (+212 °F)



- Light and flexible hose
- Also suitable as cable protection
- Nitrosamine free
- Design Factor 3:1



Tolerances

I.D. ≤ 22 mm according to UNI EN ISO 1307 I.D. > 22 mm according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36830095/40	10	16	0.3	43.5	3	0.16	_	Υ
IH36830096/40	12	18	0.3	43.5	3	0.19	_	Υ
IH36830097/40	15	21	0.3	43.5	3	0.23	_	Υ
IH36830101/40	18	24.5	0.3	43.5	3	0.29	-	Υ
IH36830102/40	20	26.5	0.3	43.5	3	0.32	_	Υ
IH36830103/40	22	28.5	0.3	43.5	3	0.34	_	Υ
IH36830104/40	25	32	0.3	43.5	3	0.39	_	Υ
IH36830105/40	28	36	0.3	43.5	3	0.50	-	Υ
IH36830106/40	30	38	0.3	43.5	3	0.53	_	Υ
IH36830107/40	32	40	0.3	43.5	3	0.55	_	Υ
IH36830108/40	35	43	0.3	43.5	3	0.60	_	Υ
IH36830109/40	38	47	0.3	43.5	3	0.73	_	Υ
IH36830110/40	40	49	0.3	43.5	3	0.77	_	Υ
IH36830111/40	42	51	0.3	43.5	3	0.80	_	Υ
IH36830112/40	45	54	0.3	43.5	3	0.85	_	Υ
IH36831023/40	48	57	0.3	43.5	3	0.91	_	Υ
IH36830113/40	50	60	0.3	43.5	3	1.07	_	Υ
IH36830114/40	55	65	0.3	43.5	3	1.17	_	Υ
IH36830115/40	60	70	0.3	43.5	3	1.26	_	Υ
IH36830116/20	65	76	0.3	43.5	3	1.54	_	Υ
IH36830117/20	70	81	0.3	43.5	3	1.65	_	Υ
IH36831022/20	75	86	0.3	43.5	3	1.75	_	Υ
IH36830118/20	80	92	0.3	43.5	3	2.05	_	Υ
IH36830119/20	90	102	0.3	43.5	3	2.29	-	Υ
IH36830120/20	100	113	0.3	43.5	3	2.63	_	Υ

RUBBER HOSE RADIOR DIAM. I.D. mm







RADIOR 3 (CUT LENGTH)

Designed for cooling systems of automotive engines and stationary engines.

Hose Construction

Tube: Black, smooth, heat resistant EPDM

nitrosamine free rubber compound

Reinforcement: Synthetic textile yarn fabric **Cover:** Black, smooth, heat, ageing

and weather-resistant EPDM

nitrosamine free rubber compound

Temperature Range

-40 °C (-40 °F) to peaks of +100 °C (+212 °F)



- Light and flexible hose
- In piece of 1 m length
- Straight piece without snake effect
- Nitrosamine free
- Design Factor 3:1



Tolerances

I.D. \leq 22 mm according to UNI EN ISO 1307 I.D. > 22 mm according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36830023/1	15	21	0.3	43.5	3	0.23	_	Υ
IH36830001/1	18	24.5	0.3	43.5	3	0.29	_	Υ
IH36830002/1	20	26.5	0.3	43.5	3	0.32	_	Υ
IH36830003/1	22	28.5	0.3	43.5	3	0.34	_	Υ
IH36830004/1	25	32	0.3	43.5	3	0.39	_	Υ
IH36830005/1	28	36	0.3	43.5	3	0.50	_	Υ
IH36830006/1	30	38	0.3	43.5	3	0.53	_	Υ
IH36830007/1	32	40	0.3	43.5	3	0.55	_	Υ
IH36830008/1	35	43	0.3	43.5	3	0.60	_	Υ
IH36830009/1	38	47	0.3	43.5	3	0.73	_	Υ
IH36830010/1	40	49	0.3	43.5	3	0.77	_	Υ
IH36830011/1	42	51	0.3	43.5	3	0.80	_	Υ
IH36830012/1	45	54	0.3	43.5	3	0.85	_	Υ
IH36831030/1	48	57	0.3	43.5	3	0.91	_	Υ
IH36830013/1	50	60	0.3	43.5	3	1.07	_	Υ
IH36830014/1	55	65	0.3	43.5	3	1.17	_	Υ
IH36830015/1	60	70	0.3	43.5	3	1.26	_	Υ
IH36830016/1	65	76	0.3	43.5	3	1.54	_	Υ
IH36830017/1	70	81	0.3	43.5	3	1.65	_	Υ
IH36831031/1	75	86	0.3	43.5	3	1.75	-	Υ
IH36830018/1	80	92	0.3	43.5	3	2.05	_	Υ
IH36830019/1	90	102	0.3	43.5	3	2.29	_	Υ
IH36830020/1	100	113	0.3	43.5	3	2.63	_	Υ



RADIOR K 1003

Designed for heating and cooling systems, resistant to ASTM I/II/III oil up to +100 °C (+212 °F) with peaks up to +120 °C (+248 °F) and diesel fuel up to +50 °C (+122 °F).

Hose Construction

Tube: Black, smooth, heat resistant

NBR rubber compound

Reinforcement: Synthetic textile fabrics yarns **Cover:** Black, smooth, wrapped finish,

heat, ageing and weather-resistant

CR rubber compound

Temperature Range

-40 °C (-40 °F) to +100 °C (+212 °F)



- Superior Chloroprene cover compound for oil and fuel resistance
- Also suitable for B100
- Light and flexible hose
- Design Factor 3:1

Tolerances

I.D. ≤ 22 mm according to UNI EN ISO 1307 I.D. > 22 mm according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working I	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30831300/40	12	19	0.5	72.5	5	0.24	-	Υ
IH30831302/40	15	22	0.5	72.5	5	0.28	-	Υ
IH30831303/40	18	25	0.5	72.5	5	0.33	_	Υ
IH30831305/40	22	29	0.5	72.5	5	0.39	-	Υ
IH36831300/40	25	32	0.5	72.5	5	0.41	_	Υ
IH36831301/40	28	35	0.5	72.5	5	0.45	_	Υ
IH36831303/40	32	39	0.5	72.5	5	0.51	_	Ν
IH36831305/40	38	45	0.5	72.5	5	0.59	_	Υ
IH36831308/20	45	56	0.5	72.5	5	1.11	_	Ν
IH36831309/20	50	61	0.5	72.5	5	1.22	-	Υ
IH36831311/20	60	71	0.5	72.5	5	1.43	_	Ν
IH36831312/20	65	76	0.5	72.5	5	1.54	-	N



THERMOPRESS 10

Suitable for delivery of hot water, non-aggressive hot liquids and steam to a maximum temperature of +120 °C (+248 °F). To connect boilers to air conditioning units and for hot water cleaning systems.

Hose Construction

Tube: Black, smooth, heat resistant,

EPDM nitrosamine free rubber

compound

Reinforcement: Synthetic textile fabrics or yarns

Cover: Black, smooth, heat, ageing

and weather-resistant EPDM nitrosamine free rubber compound

Temperature Range

 $-40 \, ^{\circ}\text{C} (-40 \, ^{\circ}\text{F}) \text{ to } +100 \, ^{\circ}\text{C} (+212 \, ^{\circ}\text{F}),$ with peaks +120 $^{\circ}\text{C} (+248 \, ^{\circ}\text{F})$



- Robust structure
- Wide temperature range
- Nitrosamine free
- Design Factor 4:1



Tolerances

I.D. ≤ 20 mm according to UNI EN ISO 1307 I.D. > 20 mm according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number	art Number		Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36800002/100	12	22.5	1.0	150.0	10	0.38	120	Υ
IH36800003/80	15	25.5	1.0	150.0	10	0.44	150	Υ
IH36800004/80	18	28.5	1.0	150.0	10	0.51	180	Υ
IH36800005/80	20	30.5	1.0	150.0	10	0.56	200	Υ
IH36800006/40	25	35	1.0	150.0	10	0.61	250	Υ
IH36800007/40	30	41	1.0	150.0	10	0.79	300	Υ
IH36800009/40	40	54	1.0	150.0	10	1.34	400	Υ
IH36800011/40	50	68	1.0	150.0	10	2.12	500	Ν
IH36800012/40	60	82	1.0	150.0	10	3.10	600	Ν



F7



INGLAS +

Suitable for cooling water delivery in foundries, steel and glass factories. Particularly designed to withstand short contacts with molten metal and glass.

Hose Construction

Tube: White, smooth EPDM, insulating

rubber compound.

Resistant to hot air and hot water.

Reinforcement: High tensile synthetic textile plies **Cover:** Colored, smooth EPDM/SBR rub

Colored, smooth EPDM/SBR rubber compound, insulating, heat, abrasion and weather resistant.

Covered by protective glass fiber skimmed with self-extinguishing

rubber

Temperature Range

-40 °C (-40 °F) - maximum of +120 °C (+248 °F) The cover withstands peaks of +537 °C (+1000 °F)



- High peaks of temperature
- Specific for foundries, furnaces and glass factories
- White cover in fiber glass
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH42302702/40	10	20	1.5	218	15	0.33	80	Υ
IH42302704/40	13	23	1.5	218	15	0.42	105	Ν
IH42302710/40	19	31	1.5	218	15	0.7	155	Ν
IH42302716/40	25	39	1.5	218	15	0.97	200	Υ
IH42302718/40	32	48	1.5	218	15	1.45	255	Ν
IH42302726/40	38	58	1.5	218	15	1.85	300	Υ
IH42302732/40	42	60	1.5	218	15	1.9	340	Ν
IH42302724/40	45	62	1.5	218	15	1.95	360	N
IH42302740/40	51	69	1.5	218	15	2.45	400	Ν
IH42302754/40	65	87	1.5	218	15	3.46	520	N
IH42302758/40	85	110	1.5	218	15	5.47	680	N







CALORE PLUS

Suitable for delivery of hot water, non-aggressive hot liquids and steam (intermittent service) to a maximum temperature of 140 °C (+248 °F). The special cover of this hose allows to use it in continuous contact with oils. Not to be used in submersible application.

Hose Construction

Tube: Black, smooth, antistatic

(R < 1 M Ω /m) and nitrosamine free

EPM rubber compound with

peroxide curing.

Reinforcement: Synthetic braided textile

Cover: Black or Blue, smooth, CPE rubber

compound resistant to contact with oil. Ageing, ozone, high abrasion resistant properties – tough cover and MSHA approved for fire resistance.

Temperature Range

-35 °C (-31 °F) to +140 °C (+248 °F)



- Intermittent service in satured steam application maximum WP 6.0 bar with Design Factor 10:1
- MSHA approved cover compound
- Oil and grease resistant cover
- Dual color for visual coding
- Heavy duty mission profile
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock		
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm			
CALORE PLUS (black)										
IH30830060/40	9.5	16.5	2.0	300.0	20	0.21	60	Υ		
IH30830061/40	12.7	21.5	2.0	300.0	20	0.35	80	Υ		
IH30830062/40	19	27	2.0	300.0	20	0.40	110	Υ		
IH30830063/40	25	36	2.0	300.0	20	0.64	150	Υ		
CALORE PLUS (blue)										
IH30830065/40	9.5	16.5	2.0	300.0	20	0.21	60	Ν		
IH30830066/40	12.7	21.5	2.0	300.0	20	0.35	80	Ν		
IH30830067/40	19	27	2.0	300.0	20	0.40	110	Ν		
IH30830068/40	25	36	2.0	300.0	20	0.64	150	Ν		

WARNING! see page F2

CALORE PLUS - 140 °C DN19 - PARKER - MCXX

CALORE PLUS - 140 °C DN19 - PARKER - MCXX



VAPORE 164 EN ISO 6134 TYPE 1/A

According to EN ISO 6134 type 1/A

Designed for saturated steam (max 6 bar at +164 °C = 90 psi at +327 °F) in general industrial applications.

Hose Construction

Tube: Black, smooth, EPM nitrosamine

free rubber compound, heat and

saturated steam resistant

Reinforcement: High resistant synthetic textile

fabrics

Cover: Black or red (NR), smooth, EPDM

nitrosamine free rubber compound, heat, abrasion, ozone and weather resistant. The cover is pinpricked to prevent blistering and bubbling.

Temperature Range

-40 °C (-40 °F) to +164 °C (+327 °F)



- Nitrosamine free
- Pin-pricked cover
- Available on request with red cover
- Working pressure for hot water 20 bar with a Design Factor of 3:1
- Design Factor 10:1

Tolerances

According to EN ISO 6134

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36800098/40	10	21	0.6	90.0	6	0.29	100	N
IH36800088/40	13	25	0.6	90.0	6	0.35	130	Υ
IH36800089/40	16	30	0.6	90.0	6	0.39	150	Υ
IH36800090/40	19	33	0.6	90.0	6	0.70	190	Υ
IH36800091/40	25	40	0.6	90.0	6	0.92	250	Υ
IH36800092/40	32	48	0.6	90.0	6	1.11	320	Ν
IH36800093/40	38	54	0.6	90.0	6	1.42	380	Ν
IH36800096/40	51	69	0.6	90.0	6	2.07	500	Ν

WARNING! see page F2





VIGOR 2 EN ISO 6134 TYPE 2/A

According to EN ISO 6134 type 2/A

Designed for high pressure saturated steam (max 18 bar at +210 °C = 261 psi at +410 °F). Suitable for loading saturated and superheated steam in cleaning and sterilization applications, petrochemical industry and general steam service applications

Hose Construction

Tube: Black, smooth, EPDM

rubber compound. Heat and saturated steam resistant

Reinforcement: High tensile steel cords

Cover: Black, smooth, EPDM rubber com-

pound. Heat, abrasion, ozone and

weather resistant.

The cover is pinpricked to prevent

blistering and bubbling.

Temperature Range

-40 °C (-40 °F) to +210 °C (+410 °F)



- Wide range temperature
- Pin-pricked cover
- Two cover color lines: black and red
- Working pressure for hot water
 45 bar with a Design Factor of 4:1
- Design Factor 10:1

Tolerances

According to EN ISO 6134

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
VIGOR 2 EN ISO 6134 (black)								
IH36801700/40	13	25	1.8	261.0	18	0.50	130	Υ
IH36801701/40	16	30	1.8	261.0	18	0.70	160	Ν
IH36801702/40	19	33	1.8	261.0	18	0.77	190	Υ
IH36801703/40	25	40	1.8	261.0	18	1.06	250	Υ
IH36801704/40	32	48	1.8	261.0	18	1.39	320	Υ
IH36801705/40	38	54	1.8	261.0	18	1.60	380	Ν
IH36801706/40	51	69	1.8	261.0	18	2.56	500	Ν
VIGOR 2 EN ISO 6134	(red)							
IH36801720/40	13	25	1.8	261.0	18	0.51	130	Ν
IH36801721/40	16	29	1.8	261.0	18	0.70	160	Ν
IH36801722/40	19	33	1.8	261.0	18	0.79	190	Ν
IH36801723/40	25	40	1.8	261.0	18	1.06	250	Ν
IH36801724/40	32	48	1.8	261.0	18	1.41	320	Ν
IH36801725/40	38	54	1.8	261.0	18	1.62	380	Ν
IH36801726/40	51	69	1.8	261.0	18	2.59	500	N

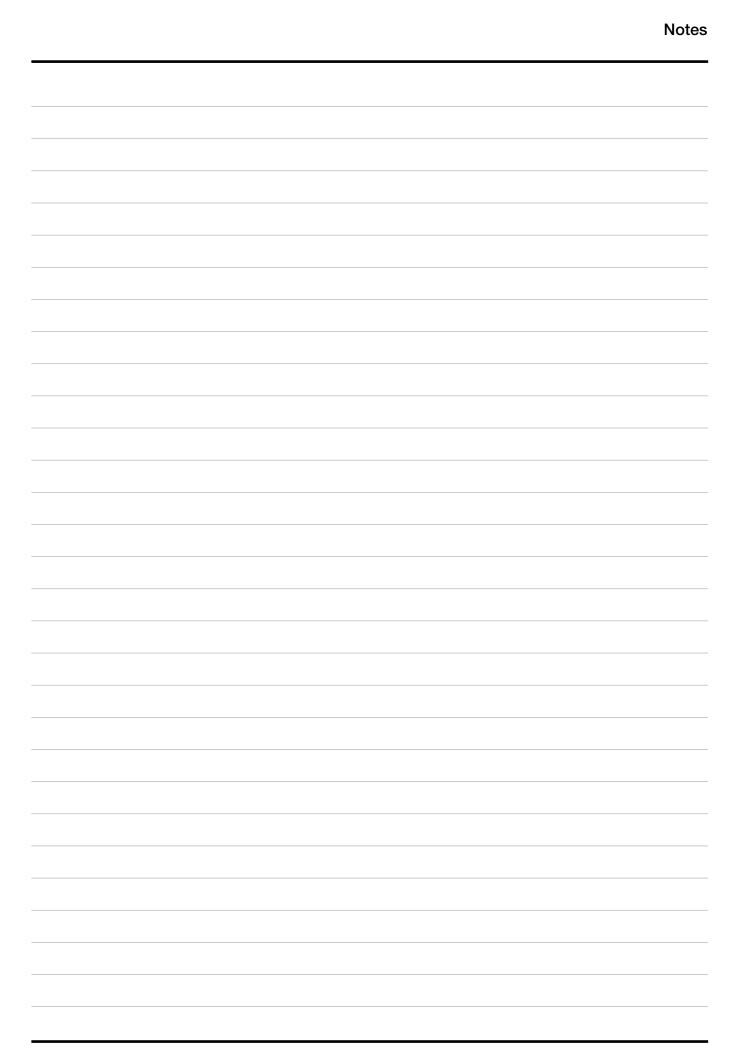
WARNING! see page F2

RUBBER HOSE VIGOR - EN ISO 6136:2005 - 24 - steam - 18 bar - 210 °C - LD, mm - () - MADE IN ITALY

RUBBER HOSE VIGOR - EN ISO 6134:2005 - 2A - steam - 18 bar - 210 °C - I.D. mm - Ω - MADE IN ITALY













aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Acid & Chemicals







G - Acid & Chemicals

Hose	ID Range (mm)	Temp. Range (°C)	Application
SERIES 7108	6.4 - 12.7	-18 / +93	chemical resistance table
POLIAX D EN 12115	19 - 100	-35 / +100	chemical resistance table
POLIAX D SM EN 12115	19 - 100	-35 / +100	chemical resistance table
POLIAX UPE CON SM EN 12115	19 - 100	-20 / +100	chemical resistance table
POLIAX UPE CON SM EN 12115 OND	19 - 100	-20 / +100	chemical resistance table
POLIAX F EN 12115	13 - 75	-40 / +150	chemical resistance table
POLIAX PHARMA	13 - 51	-60 / +200	chemical resistance table

WARNING!



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Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
NYLON	aramid plies	CR	34/ 51	4			G4
EPM	textile + copper wires	EPDM	16	4		EN 12115	G5
EPM	textile + copper wires	EPDM	16	4	yes	EN 12115	G6
UHMWPE	textile + copper wires	EPDM	16	4	yes	EN 12115	G7
UHMWPE	textile + copper wires	EPDM	16	4	yes	EN12115	G8
PTFE	textile + copper wires	EPDM	16	4	yes	EN 12115	G9
SILICONE	textile + copper wires	SILICONE	6/15	3	yes	Refer to catalogue page	G10



G3

SERIES 7108

Parker Global Product

Designed to handle high aromatic content products such as ketone solvents, lacquers, paint thinners, oil-based and water-based paints and many common chemicals. The hose construction incorporates a nylon tube that will not leach into and contaminate the product being conveyed, and the robust aramid reinforcement provides kink resistance, strength and superior coupling retention. The cover is resistant to mild chemicals, oil and ozone.

Hose Construction

Tube: Translucent nylon **Reinforcement:** Multiple aramid plies

Cover: Black chloroprene; smooth finish

Temperature Range -18°C (0°F) to +93°C (+200°F)



- Wide chemicals compatibility resistance
- Small sizes in long length
- High pressure rating
- Design Factor 4:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
7108-251	6,4	12,4	3,45	500	34,5	0,13	76,2	Ν
7108-381	9,5	17,3	3,45	500	34,5	0,23	101,6	Ν
7108-501	12,7	22,2	5,17	750	51,7	0,36	127,0	Ν

Random lengths on reels. 600 ft. max.(182.88 m), 400 ft. min.(121.9 m), with 50 ft.(15.24) min. length, max. 3 pcs.

WARNING!

If delivering chemicals over +25 °C (+77 °F), please contact us. Many chemical products can cause severe injuries to people or damage to property, and here are risks of environmental pollution in case of leakage or hose burst. All necessary measures must be taken in order to avoid accidents both during normal service operations and during hydrostatic tests, which must be carried out by trained personnel using suitable tools.

Parker SERIES 7108 PAINT FLUID HOSE (ID) XXX PSI MAX WP MADE IN USE (DATE CODE)



Catalogue 4401/UK



POLIAX D EN 12115

According to EN 12115

Suitable for delivery of highly aggressive chemicals, according to EN 12115,

Hose Construction

Tube: Black, smooth antistatic EPM ni-

trosamine free rubber compound

Reinforcement: Synthetic textile fabrics and built-in

copper wires to facilitate the electri-

cal connection between hose and

end couplings

Cover: Black, antistatic (R < 1 M Ω /m),

EPDM rubber compound, heat, abrasion, ageing and weather

resistant

Temperature Range

-35 °C (-31 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.



- In-plant and storage tank transfer
- Nitrosamine free
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Design Factor 4:1

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36810130/40	19	31	1.6	232.0	16	0.56	187.5	Υ
IH36810131/40	25	37	1.6	232.0	16	0.71	225	Υ
IH36810132/40	32	44	1.6	232.0	16	0.86	262.5	Υ
IH36810133/40	38	51	1.6	232.0	16	1.11	337.5	Υ
IH36810134/40	50	66	1.6	232.0	16	1.72	412.5	Υ
IH36810135/40	63.5	79	1.6	232.0	16	2.10	450	Ν
IH36810136/40	75	91	1.6	232.0	16	2.56	525	Ν
IH36810137/40	100	116	1.6	232.0	16	3.38	675	N

<u> WARNING!</u>



POLIAX D SM EN 12115

According to EN 12115

Suitable for suction and delivery of highly aggressive chemicals, according to EN 12115.

Hose Construction

Tube: Black, smooth antistatic EPM

nitrosamine free rubber compound • Flexibility and

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wires to facilitate the electrical connection between hose and end

couplings

Cover: Black, antistatic (R < 1 M Ω /m),

EPDM rubber compound, heat, abrasion, ageing and weather

resistant

Temperature Range

-35 °C (-31 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.



- In-plant and storage tank transfer
- Nitrosamine free
- Flexibility and kink resistance



- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Vacuum 0.9 bar up to 63.5 mm then 0.8 bar
- Design Factor 4:1

Tolerances

According to EN 12115
Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36810111/40	19	31	1.6	232.0	16	0.70	125	Υ
IH36810112/40	25	37	1.6	232.0	16	0.92	150	Υ
IH36810113/40	32	44	1.6	232.0	16	1.09	175	Υ
IH36810114/40	38	51	1.6	232.0	16	1.35	225	Υ
IH36810115/40	50	66	1.6	232.0	16	1.84	275	Υ
IH36810116/40	63.5	79	1.6	232.0	16	2.54	300	Υ
IH36810117/40	75	91	1.6	232.0	16	3.12	350	Υ
IH36810118/40	100	116	1.6	232.0	16	4.41	450	N

WARNING!



POLIAX UPE CON SM EN 12115

According to EN 12115

POLIAX UPE CON SM EN 12115 is an heavy duty hose for suction and delivery of a wide range of highly aggressive chemicals such as most industrial acids, alkalis, oils, fuels and solvents. It can be used as a flexible connection in paint plants.

Refer to the Chemical Resistant Chart to determine compatibility with specific chemicals. For severe or special applications – for tighter bending radius – or if in doubt, please ask our Technical Assistance.

Hose Construction

Tube: Lucent, black, smooth, conductive,

ultra high molecular weight polyethylene (UHMWPE), suitable for foodstuff contact according to FDA,

EEC Directive, Italian Decrees

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wires to allow the electrical connection between hose and couplings

Black, antistatic (R < 1 M Ω /m), EPDM rubber compound, heat, abrasion, ageing and weather

resistant



- High flexibility and kink resistance
- Fits also foodstuffs according to FDA
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Vacuum: 0.9 bar up to dn 63.5,
 0.8 bar for larger sizes
- Design Factor 4:1

Temperature Range

-20 °C (+5 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 $^{\circ}$ C (+266 $^{\circ}$ F) for short periods.

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

Part Number	Part Number			Max. Working Pressure			min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36811529/40	19	31	1.6	232.0	16	0.71	187.5	Υ
IH36811530/40	25	37	1.6	232.0	16	0.87	225.0	Υ
IH36811531/40	32	44	1.6	232.0	16	1.07	262.5	Υ
IH36811532/40	38	51	1.6	232.0	16	1.35	337.5	Υ
IH36811534/40	50	66	1.6	232.0	16	2.29	412.5	Υ
IH36811535/40	63.5	79	1.6	232.0	16	2.51	450.0	Υ
IH36811536/40	75	91	1.6	232.0	16	3.07	525.0	Υ
IH36811538/20	100	116	1.6	232.0	16	4.43	675.0	Ν

WARNING!

Cover:







POLIAX UPE CON SM OND EN 12115

According to EN 12115

POLIAX UPE CON SM EN 12115 OND is a very flexible hose suitable for suction and delivery of a wide range of highly aggressive chemicals such as most industrial acids, alkalis, oils, fuels and solvents. It can also be used as a flexible connections in paint plants.

Refer to the Chemical Resistant Chart to determine compatibility with specific chemicals. For severe or special applications - for tighter bending radius - or if in doubt, please ask our Technical Assistance.

Hose Construction

Tube: Lucent, black, smooth, conductive,

> ultra high molecular weight polyethylene (UHMWPE), suitable for foodstuff contact according to FDA,

EEC Directive, Italian Decrees

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wires to allow the electrical connection between hose and couplings

Cover: Black, corrugated, antistatic

 $(R < 1 M\Omega/m)$, EPDM rubber compound, heat, abrasion, ageing and

weather resistant



- Extreme flexibility, superior kink resistance, minimal force to bend
- Fits also foodstuffs according to FDA
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Vacuum: 0.9 bar up to dn 63.5, for larger sizes 0.8 bar
- Design Factor 4:1

Temperature Range

-20 °C (+5 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam - a temperature of +130 °C (+266 °F) for short periods.

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36811570/40	19	31	1.6	232.0	16	0.71	38	Υ
IH36811571/40	25	37	1.6	232.0	16	0.87	50	Υ
IH36811572/40	32	44	1.6	232.0	16	1.07	64	Υ
IH36811573/40	38	51	1.6	232.0	16	1.35	76	Υ
IH36811574/40	50	66	1.6	232.0	16	2.29	100	Υ
IH36811575/40	63.5	79	1.6	232.0	16	2.51	127	Ν
IH36811576/40	75	91	1.6	232.0	16	3.07	150	Υ
IH36811577/20	100	116	1.6	232.0	16	4.43	200	N

If delivering chemicals over +25 °C (+77 °F), please contact us. Many chemical products can cause severe injuries to people or damage to property, and here are risks of environmental pollution in case of leakage or hose burst. All necessary measures must be taken in order to avoid accidents both during normal service operations and during hydrostatic tests, which must be carried out by trained personnel using suitable tools.



MADE IN ITALY



POLIAX F EN 12115

According to EN 12115

POLIAX F EN 12115 is manufactured with high quality elastomers, with excellent chemical and mechanical properties, it results suitable for suction and delivery of a wide range of highly aggressive chemicals and solvents. Hose resistant to high temperature and designed for heavy chemical, foodstuff, pharmaceutical and cosmetic industry. Full conductive hose type Ω/T according to EN 12115, R<1M Ω and R<1G Ω through the wall. Suitable also for ATEX area.

Not to be used with chlorine tri-fluoride, chlorine and fluorine gas, oxygen di-fluoride, phosgene and molten alkalis (e.g., sodium).

Hose Construction

Tube: Black, smooth, phthalates free PTFE (poly-

tetrafluoroethylene). Superior resistance to high temperature, mechanical stress and to

oxidation.

Reinforcement: High temperature resistant plies,

galvanized helix wire and copper wires to

discharge electricity.

Cover: Black, smooth, conducting (R < 1 M Ω /m)

EPDM rubber compound, ageing, ozone and

abrasion resistant.



- High flexibility and kink resistance
- Fits also foodstuffs according to FDA
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Meets USP XXXII class VI requirements
- Vacuum: 0.9 bar
- Design Factor 4:1

Temperature Range

-40 °C (-40 °F) to +150 °C (+302 °F)

For aggressive chemical and solvents intended to be used at high temperature please contact out Technical Assistance. For cleaning & sterilization refer to "Guidelines to the Use and Cleaning of Food and Pharma rubber hoses".

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

abradion	00.010							
Part Number	I.D. (mm)	O.D. (mm)	Max MPa	k. Working	Pressure bar	Weight kg/m	min. Bend Radius mm	in Stock
	` ′	` ′		·				
IH36811541/40	13	25	1.6	232	16	0.54	90	Ν
IH36811542/40	19	31	1.6	232	16	0.7	130	Ν
IH36811543/40	25	37	1.6	232	16	0.86	170	Ν
IH36811544/40	32	44	1.6	232	16	1.18	215	Ν
IH36811545/40	38	51	1.6	232	16	1.43	255	Ν
IH36811546/40	50	66	1.6	232	16	2.08	330	Ν
IH36811547/40	63.5	79.5	1.6	232	16	2.96	430	Ν
IH36811548/40	75	91	1.6	232	16	3.43	510	N

WARNING!

If delivering chemicals over +25 °C (+77 °F), please contact us. Many chemical products can cause severe injuries to people or damage to property, and here are risks of environmental pollution in case of leakage or hose burst. All necessary measures must be taken in order to avoid accidents both during normal service operations and during hydrostatic tests, which must be carried out by trained personnel using suitable tools.



POLIAX PHARMA

Flexible hose suitable for suction and delivery of pharmaceutical and cosmetic products and also suitable for food transfer. Not intended for use as an implant material. This silicone hose shows a Platinum-catalyzed cure system.

Not suitable for blood or human fluids.

Hose Construction

Tube: Translucent, smooth, phthalates

free, SILICONE rubber compound.

Reinforcement: High temperature resistant plies and-

stainless steel wire helix

Translucent, smooth, SILICONE rubber Cover:

compound, heat, ageing, ozone and

abrasion resistant.

Temperature Range

-60 °C (-76 °F) to +200 °C (+392 °F)

For aggressive chemicals and solvents intended to be used at high temperature please contact out Technical Assistance. For cleaning & sterilization refer to "Guidelines to the Use and Cleaning of Food and Pharma rubber hoses"

Tolerances

According to UNI EN ISO 1307



- High Flexibility and kink resistance
- Meets European Pharmacopoeia 3.1.9 Ed. VII 2011
- 3A Sanitary Standard Class II
- Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006 and revision 2012
- USP XXXII class VI requirements
- ISO 10993 Sections5,10,11:2009
- FDA CFR 21 PART 177.2600
- DM 21/03/1973
- BfR Reccomandation XV & XXI Cat. 2
- European Reglement 1935/2004/CE
- Tested in compliance with 907/2006/CE (REACH)
- Design Factor 3:1

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36811580/40	13	24	1.5	225	15	0.46	60	N
IH36811581/40	16	27	1.4	210	14	0.53	70	Ν
IH36811582/40	19	30	1.3	195	13	0.6	80	Ν
IH36811583/40	25	36	1.0	150	10	0.73	100	Ν
IH36811584/40	32	43	0.8	120	8	0.89	130	Ν
IH36811585/40	38	51	0.7	105	7	1.21	155	Ν
IH36811586/40	51	64	0.6	90	6	1.56	210	Ν

If delivering chemicals over +25 °C (+77 °F), please contact us. Many chemical products can cause severe injuries to people or damage to property, and here are risks of environmental pollution in case of leakage or hose burst. All necessary measures must be taken in order to avoid accidents both during normal service operations and during hydrostatic tests, which must be carried out by trained personnel using suitable tools.











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climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Material Handling







H - Material Handling

Hose	ID Range (mm)	Temp. Range (°C)	Application
LIBECCIO EN ISO 3861	19 - 100	-30 / +70	wet and dry sand and cement
CEMENT 713 10	50 - 100	-30 / +70	wet and dry sand and cement
CEMENT SM 10	50 - 125	-30 / +70	wet and dry sand and cement
INTONACATRICI 40	25 - 65	-30 / +70	wet and dry sand and cement
BETON 80	51 - 125	-40 / +70	high pressure concrete pumping
CERGOM	25 - 200	-30 / +70	high abrasive materials



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
BR/NR	textile	SBR/NBR	10	4		EN ISO 3861	H4
BR/NR	textile + copper wires	SBR	10	3			H5
BR/NR	textile	SBR	10	3	yes		Н6
BR/NR	textile	SBR	40	3			H7
NR/SBR	steel wire	NR/SBR	80	2.5			Н8
CERAMIC	textile + copper wires	SBR/NBR	6	3	yes		Н9

Н3



LIBECCIO EN ISO 3861

According to EN ISO 3861

Suitable for conveying of wet and dry sand and grit blasting materials.

Hose Construction

Tube: Smooth, black, antistatic, abrasion

resistant BR/NR rubber compound. Abrasion according to ISO 4649:

max. 60 - 70 mm³

Reinforcement: Synthetic textile fabrics

Cover: Black, smooth, antistatic, weather

and abrasion resistant SBR/NBR compound. The cover is pinpricked to prevent blistering and bubbling, max, resistance on finished hose:

 $2,0 \text{ M}\Omega/\text{m}$

Temperature Range

-30 °C (-22 °F) to +70 °C (+158 °F)



- Exceeds EN ISO 3861 requirements
- Robust and light version available
- Construction, general industry, shipyards
- Design Factor 4:1

Tolerances

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36820300/40	19	33	1.0	150.0	10	0.69	190	Υ
IH36820200/40	25	40	1.0	150.0	10	0.92	250	Υ
IH36820201/40	30	45	1.0	150.0	10	1.05	300	Υ
IH36820202/40	32	48	1.0	150.0	10	1.37	320	Υ
IH36820303/40	38	55	1.0	150.0	10	1.46	380	Υ
IH36820305/40	42	60	1.0	150.0	10	1.70	420	Ν
IH36820206/40	50	72	1.0	150.0	10	2.54	500	Υ
IH36820207/40	60	82	1.0	150.0	10	2.95	600	Υ
IH36820209/20	80	105	1.0	150.0	10	4.32	800	Υ
IH36820210/20	90	115	1.0	150.0	10	4.84	900	N
IH36820211/20	100	125	1.0	150.0	10	5.30	1000	N



CEMENT 713 10

Suitable for delivery of dry cement, grain, seeds and animal feed to road tankers and storage bins or silos.

Hose Construction

Tube: Smooth, black, antistatic, abrasion

resistant BR/ NR rubber compound. Abrasion according to DIN 53516;

ISO 4649; ASTM D 5963:

 $max. 60 - 70 \text{ } mm^3$

Reinforcement: Synthetic textile fabrics and built-in

copper wire giving electrical conti-

nuity between both ends

Cover: Black, abrasion and weather-

resistant, SBR rubber compound

Temperature Range

-30 °C (-22 °F) to +70 °C (+158 °F)



- Construction, general industry
- In-plant transfer/loading, bulk transport trucks
- Design Factor 3:1

Tolerances

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36822223/40	50	68	1.0	145.0	10	2.04	600	N
IH36822225/40	63.5	81	1.0	145.0	10	2.49	760	Ν
IH36822217/40	75	93	1.0	145.0	10	2.92	900	Υ
IH36822222/40	80	98	1.0	145.0	10	3.10	960	Ν
IH36822230/40	90	110	1.0	145.0	10	3.90	1080	Ν
IH36822220/40	100	120	1.0	145.0	10	4.29	1200	Υ



CEMENT SM 10

Suitable for suction and delivery of dry cement to road tankers and storage bins or silos.

Hose Construction

Tube: Black, antistatic smooth abrasion

resistant BR/NR rubber compound,

abrasion max. 60 - 70 mm³

Reinforcement: Synthetic textile fabrics,

embedded steel wire helix

Cover: Black, abrasion and weather-

resistant, SBR rubber compound

Temperature Range

-30 °C (-22 °F) to +70 °C (+158 °F)



- In-plant transfer/loading, bulk transport trucks
- Construction, general industry
- Good flexibility
- Vacuum 0.8 bar
- Design Factor 3:1

Tolerances

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	MPa psi bar		kg/m	mm	
IH36923100/40	50	64	0.1	150.0	10	1.92	300	Υ
IH36923101/40	60	74	0.1	150.0	10	2.26	360	N
IH36923105/20	75	93	0.1	150.0	10	3.53	450	Ν
IH36923102/20	100	118	0.1	150.0	10	4.80	600	Υ
IH36923109/20	120	140	0.1	150.0	10	6.54	720	Ν
IH36923107/20	125	143	0.1	150.0	10	5.77	750	Ν



INTONACATRICI 40

Designed for delivery of plaster and abrasive materials such as mortar and wet cement from plastering machines or spray nozzles.

Hose Construction

Tube: Black, abrasion resistant, antistatic

smooth BR/NR rubber compound.

Abrasion max. 60 - 70 mm³

Reinforcement: Synthetic textile fabrics

Cover: Black, abrasion and weather-re-

sistant, SBR rubber compound

Temperature Range

-30 °C (-22 °F) to +70 °C (+158 °F)



- Construction, general industrial
- Cover resistant to cuts, gouges, scuffs
- High working pressure
- Design Factor 3:1

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			₩	x. Working		Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36822030/40	25	38	4.0	600.0	40	0.89	300	Υ
IH36822041/40	32	46	4.0	600.0	40	1.14	380	Υ
IH36822031/40	50	66	4.0	600.0	40	1.95	600	Ν
IH36822050/20	65	85	4.0	600.0	40	3.04	780	Ν



H7

BETON 80

Suitable for placement of concrete at casting locations by concrete pumps at the ends of the machine arms.

Hose Construction

Tube: Smooth, black NR/SBR compound

resistant to the abrasive action of the concrete abrasion DIN 53516:

max. 50±5 mm³

Reinforcement: Steel wire cord plies

Cover: Black, smooth, weather and abra-

sion resistant NR/SBR rubber

compound

Temperature Range

-40 °C (-40 °F) to +70 °C (+158 °F)



- Flexibility and kink resistance also for easy cleaning
- Wet abrasive materials
- High abrasion resistant tube assures longer service life
- Dedicated fitting series
- Design Factor 2.5:1

Tolerances

On outside diameter

According to RMA steel mandrel

On inside diameter

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36827051/0	51	75	8	1200	80	3.96	380	Υ
IH36827052/0	65	89	8	1200	80	4.84	400	Υ
IH36827053/0	76	100	8	1200	80	5.4	400	Ν
IH36827054/0	100	124	8	1200	80	7.04	550	Ν
IH36827055/0	125	150	8	1200	80	8.9	700	Ν





CERGOM

Parker Global Product

Suitable for pneumatic suction and delivery of dry cement, coal, CDR (fuel by-waste material), minerals, ceramic powder, glass recovery, fibreglass, and to load tankers and storage bins or silos. Applications in the industries: steelworks, cookery, thermoelectric power plant, cement works, mining industries, ceramic works, glassworks, insulating material manufactures etc. Supplied in customized lengths.

Hose Construction

Tube: Ceramic hexagonal plates (sinter-

ized Alumina Oxide) processed to match black BR/NR rubber compound, highly resistant to abrasion

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper wires to provide electrical continuity

between both ends

Cover: Black, antistatic (R < $2.0 \text{ M}\Omega/\text{m}$),

abrasion and weather-resistant, SBR/NBR rubber compound



- Parker International Patent PCT-EP2007-057488
- Outstanding resistance at the abrasion
- Unique construction provides service life many times longer than traditional rubber hoses
- Reduces operations, logistics and admin costs
- Customized assemblies with built-in tech
- Design Factor 3:1

Temperature Range

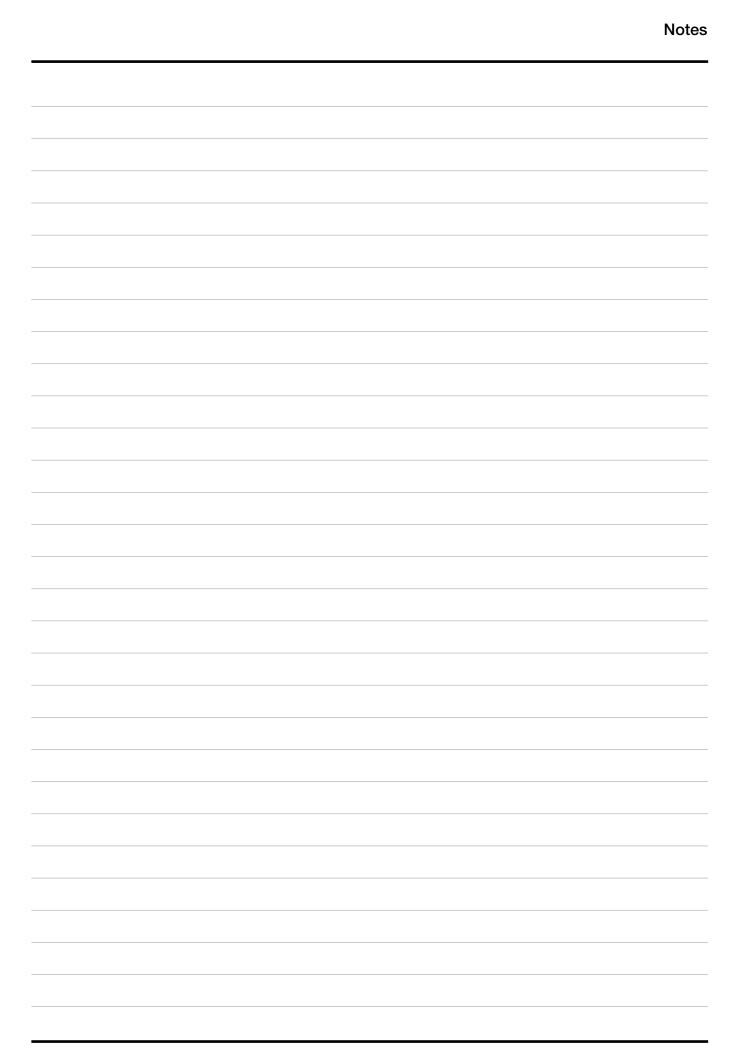
-30 °C (-22 °F) to +70 °C (+158 °F)

Tolerances

Length tolerance ± 1 %

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa psi bar		kg/m	mm		
IH36829020/0	25	49	1.0	145.0	10	2.59	375	N
IH36829021/0	32	56	1.0	145.0	10	3.07	480	Ν
IH36829022/0	38	62	1.0	145.0	10	3.48	570	Ν
IH36829023/0	42	66	1.0	145.0	10	3.75	630	Ν
IH36829024/0	48	72	1.0	145.0	10	4.17	720	Ν
IH36829025/0	50	74	1.0	145.0	10	4.31	750	Ν
IH36829026/0	60	86	1.0	145.0	10	5.27	900	Ν
IH36829027/0	63.5	90	1.0	145.0	10	5.54	953	Ν
IH36829028/0	70	100	1.0	145.0	10	6.00	1050	Ν
IH36829029/0	75	105	1.0	145.0	10	6.35	1125	Ν
IH36829030/0	80	110	1.0	145.0	10	6.93	1200	Ν
IH36829031/0	100	132	1.0	145.0	10	8.56	1500	Ν
IH36829032/0	114	147	1.0	145.0	10	13.24	1710	Ν
IH36829033/0	125	158	1.0	145.0	10	14.42	1875	Ν
IH36829034/0	150	188	1.0	145.0	10	19.42	2250	Ν
IH36829035/0	200	240	1.0	145.0	10	27.68	3045	N











aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Beverage & Food







I – Beverage & Food

Hose	ID Range (mm)	Temp. Range (°C)	Application
DRINKPRESS WB/L 10	10 - 25	-20 / +100	food & beverage, wash-down
GAMBRINUS UPE SM EN12115	19 - 100	-20 / +100	food & beverage
GAMBRINUS BLUE 10	19 - 102	-30 / +80	fatty food & beverage
GAMBRINUS BLUE SM 10	19 - 102	-30 / +80	fatty food & beverage
GAMBRINUS ANTICRUSH	38 - 76	-40 / +80	milk and milk-by product
GAMBRINUS RED 10	19 - 63.5	-40 / +120	wine and soft drinks food & beverage
GAMBRINUS RED SM 10	19 - 102	-40 / +120	wine and soft drinks food & beverage
GAMBRINUS BLACK SM 10	51 - 100	-40 / +80	abrasive food
VINITRESS	6 - 50	-20 / +60	food & beverage
APERSPIR	12 - 150	-10 / +60	food & beverage
ENOREX	25 - 120	-25 / +60	wine and soft drinks food & beverage
TE Potable Water PU Hose	38 - 152	-40 / +80	potable water transfert

Guidelines to the Use and Cleaning of Food Rubber Hose

Refer to Technical Handbook on page TH13



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
EPDM	textile	EPDM	10	4		FDA - BfR	14
UHMWPE	textile + copper wires	EPDM	16	4	yes	**EN12115-FDA-DM	15
NBR	textile	NBR/PVC	10	3		* BfR - DM - FDA - EC	16
NBR	textile	NBR/PVC	10	3	yes	* BfR - DM - FDA - EC	17
NR	textile	NBR	6		yes	* BfR - DM - FDA - EC	18
EPDM	textile	EPDM	10	3		* BfR - DM - FDA - EC	19
EPDM	textile	EPDM	10	3	yes	* BfR - DM - FDA - EC	l10
NR	textile	NR/SBR	10	3	yes	* BfR - DM - FDA - EC	l11
PVC	textile	PVC	20	3		EC 90/128 CLASS A-B-C	l12
PVC	steel wire	PVC	15	3	yes	EC 90/128 CLASS A-B-C	l13
PVC	PVC wire		10	3	yes	EC 1935:2004 CLASS A-B-C	l14
PU	textile	PU	31	2		WRAS - DWI - NSF 61	l15

^{*} BfR Class2 - DM 21/03/73 - FDA title21 - EC 1935/2004



^{**} EN 12115 - FDA title21 - DM 21/03/73 - DM 220 26/04/93



DRINKPRESS WB/L 10

Designed for delivery of all foodstuffs containing vegetable fats and fluids as well as beverages such as wine, fruit juices and liqueurs. Also suitable for wash-down in food processing with hot water.

Hose Construction

Tube: White, smooth, EPDM food quality

rubber compound

Reinforcement: High tensile synthetic yarns

Cover: Blue, smooth, abrasion, vegetable

fats, ozone and weather resistant

EPDM rubber compound

Temperature Range

-20 °C (+4 °F) to +100 °C (+212 °)



- Multipurpose food grade hose
- According to FDA 21 BfR recommendation XXI Cat. 2
- Versatility of use, food transfer, wash-down applications
- Design Factor 3:1

Tolerances

According to UNI EN ISO 1307/97 Refer to Technical Handbook on page TH35

Part Number	Ma:	x. Working	Pressure	Weight	min. Bend Radius	in Stock		
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30240022/40	10	19	1	150	10	0.31	80	N
IH30240020/40	13	23	1	150	10	0.42	105	Υ
IH30240025/40	16	26	1	150	10	0.49	130	Ν
IH30240030/40	19	30	1	150	10	0.71	150	Υ
IH30240035/40	25	36	1	150	10	1.05	200	Ν







GAMBRINUS UPE SM EN 12115

According to EN 12115

Designed to handle all beverages such milk, mineral water, fruit juices, wine, liqueurs etc... as well as animal or vegetable fats and oils. It is also suitable for sanitary materials. UHMUPE tube does not leach into and contaminate the product conveyed. Suitable for suction and delivery.

Hose Construction

Tube: Smooth, white undercoat, ultra

> high molecular weight translucent polyethylene (UHMWPE), suitable

for foodstuff contact

Reinforcement: Synthetic textile fabrics with embed-

ded steel wire helix and copper wire to allow electrical connection

between hose and couplings Blue, abrasion and weather

resistant EPDM rubber compound



- According to EN 12115 -FDA title21 - DM 21/03/73 -DM 220 26/04/93
- Compatibility with all liquid foodstuffs & outstanding performance in one solution
- Design Factor 4:1 Vacuum: 0.8 bar max

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH35

Temperature Range

Cover:

-20 °C (-4 °F) to +100 °C (+212 °F) sterilization at 130 °C for short periods

Part Number			S M	ax. Working	y Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36242301/40	19	31	1.6	232.0	16	0.70	190	N
IH36242302/40	25	37	1.6	232.0	16	0.90	225	Υ
IH36242303/40	32	44	1.6	232.0	16	1.20	260	Υ
IH36242304/40	38	51	1.6	232.0	16	1.50	335	Υ
IH36242305/40	50	66	1.6	232.0	16	2.20	410	Υ
IH36242306/40	63.5	79	1.6	232.0	16	2.80	450	Ν
IH36242307/40	75	91	1.6	232.0	16	3.30	525	Ν
IH36242309/40	100	116	1.2	180.0	12	4.70	675	Ν



GAMBRINUS BLUE 10

Designed to handle fatty foods, milk in a variety of transfer and delivery applications, including milk collection.

Hose Construction

Tube: White, smooth NBR Phthalates free

> rubber compound, non-toxic, odorless and taste-free.

Manufactured on stainless steel mandrel for the maximum cleanliness, hygienic standards and a

bacteria-free surface.

Reinforcement: Synthetic textile fabrics

Cover: Blue NBR/PVC rubber compound,

non- marking, abrasion and

weather-resistant

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F) sterilization at 110 °C for max 10 min.



- According to FDA, BfR class 2, DM 21/03/73, EC 1935/2004
- Indoors and outdoors
- ADI free
- Design Factor 3:1

Tolerances

Part Number			S Ma	ax. Working	g Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36242431/40	19	29	1.0	150.0	10	0.67	120	Υ
IH36242432/40	25	35	1.0	150.0	10	0.80	150	Υ
IH36242434/40	32	44	1.0	150.0	10	1.23	190	Υ
IH36242435/40	38	50	1.0	150.0	10	1.38	240	Υ
IH36242436/40	40	52	1.0	150.0	10	1.41	250	Ν
IH36242437/40	45	57	1.0	150.0	10	1.62	310	Ν
IH36242438/40	51	64	1.0	150.0	10	1.88	350	Υ
IH36242439/40	60	73	1.0	150.0	10	2.24	410	Ν
IH36242440/40	63.5	77	1.0	150.0	10	2.60	450	Ν
IH36242441/40	70	83	1.0	150.0	10	2.86	550	Ν
IH36242442/40	76	89	1.0	150.0	10	3.00	600	Ν
IH36242443/40	80	93	1.0	150.0	10	3.17	630	N
IH36242444/20	102	116	1.0	150.0	10	4.60	750	Ν









GAMBRINUS BLUE 10 SM

Designed to handle fatty foods, milk in a variety of suction and delivery applications indoors and outdoors, including milk collection.

Hose Construction

Tube: White, smooth NBR Phthalates free

rubber compound, non-toxic,

odorless and taste-free. Manufactured on stainless steel

mandrel for the maximum cleanliness, hygienic standards and a

bacteria-free surface.

Reinforcement: Synthetic textile fabrics and

embedded steel wire helix

Cover: Blue NBR/PVC rubber compound,

non-marking, abrasion and

weather-resistant.

Temperature Range

-30 °C (-22 °F) to +80 °C (+176 °F) sterilization at 110 °C for max 10 min.



- According to FDA, BfR class 2, DM 21/03/73, EC 1935/2004
- Excellent flexibility, kink resistance, easy handling
- ADI free
- Design Factor 3:1 • Vacuum: 0.9 bar

Tolerances

Part Number			Э ма	ax. Working	min. Bend Radius	in Stock		
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36242401/40	19	29	1.0	150.0	10	0.67	38	Υ
IH36242402/40	25	35	1.0	150.0	10	0.80	50	Υ
IH36242404/40	32	44	1.0	150.0	10	1.23	64	Υ
IH36242405/40	38	50	1.0	150.0	10	1.38	76	Υ
IH36242406/40	40	52	1.0	150.0	10	1.41	80	Υ
IH36242407/40	45	57	1.0	150.0	10	1.62	90	Ν
IH36242408/40	51	64	1.0	150.0	10	1.88	102	Υ
IH36242409/40	60	73	1.0	150.0	10	2.24	150	Ν
IH36242410/40	63.5	77	1.0	150.0	10	2.60	160	Υ
IH36242411/40	65	79	1.0	150.0	10	2.66	170	Ν
IH36242412/40	70	83	1.0	150.0	10	2.86	180	Ν
IH36242413/40	76	89	1.0	150.0	10	3.00	190	Υ
IH36242414/40	80	93	1.0	150.0	10	3.17	250	Ν
IH36242415/20	102	116	1.0	150.0	10	4.60	380	Υ











GAMBRINUS ANTICRUSH

Designed for suction and delivery of milk and milk by-products. The special thermoplastic embedded helix resists to accidental crushing; it's therefore ideal for tank truck applications.

Hose Construction

Tube: White, smooth, phthalate free NR

food quality rubber compound.

Reinforcement: Synthetic textile fabrics and

embedded Polyamide helix

Cover: Blue, smooth, NBR rubber com-

pound. Resistant to abrasion,

weather and ozone

Temperature Range

-40 °C (-40 °F) to +80 °C (+176 °F)



- According to FDA 21 cfr 177.2600, BfR Class 2, D.M. 21/03/73, EC 1935/2004
- Extremely lightweight
- Design Factor 3:1
- Vacuum: 0.7 bar

Tolerances

According to ISO 1307

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36242101/40	38	52	0.6	90	6	0.77	130	Ν
IH36242102/40	51	65	0.6	90	6	0.97	185	Ν
IH36242103/40	63.5	77.5	0.6	90	6	1.21	240	Ν
IH36242104/40	76	92	0.6	90	6	1.61	300	N





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GAMBRINUS RED 10

Recommended for wine, beer, liqueurs, fruit juice and soft drinks in process, package and transfer phase. Ideal either fixed and mobile installation. Not suitable for fatty food.

Hose Construction

Tube: White, smooth EPDM Phthalates

free rubber compound, non-toxic,

odorless and taste-free.

Manufactured on stainless steel

mandrel for the maximum

cleanliness and hygienic standards

Reinforcement: Synthetic textile fabrics

Cover: Red EPDM rubber compound,

non-marking, abrasion and

weather-resistant

Temperature Range

-40 °C (-40 °F) to +120 °C (+248 °F) sterilization at 110 °C for max 30 min.



- According to FDA, BfR class 2, DM 21/03/73, EC 1935/2004
- Up to 96 % alcoholic content
- ADI free
- Crimped Stainless Steel Fittings available
- Design Factor 3:1

Tolerances

Part Number			Э м	ax. Working	Weight	min. Bend Radius	in Stock	
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36242531/40	19	29	1.0	150.0	10	0.45	95	N
IH36242532/40	25	35	1.0	150.0	10	0.59	140	Ν
IH36242533/40	30	41	1.0	150.0	10	0.80	160	Ν
IH36242534/40	32	43	1.0	150.0	10	0.90	170	Ν
IH36242535/40	38	51	1.0	150.0	10	1.20	200	Ν
IH36242536/40	40	54	1.0	150.0	10	1.40	220	Ν
IH36242537/40	51	65	1.0	150.0	10	1.90	250	Ν
IH36242538/40	60	76	1.0	150.0	10	2.50	320	Ν
IH36242539/40	63.5	81	1.0	150.0	10	2.60	340	N



GAMBRINUS RED 10 SM

Recommended for wine, beer, liqueurs, fruit juice and soft drinks in process, package and transfer phase. Ideal either fixed and mobile installation. Not suitable for fatty food. Designed for suction and delivery.

Hose Construction

Tube: White, smooth EPDM Phthalates

free rubber compound, non-toxic,

odorless and taste-free.

Manufactured on stainless steel

mandrel for the maximum

cleanliness and hygienic standards

Reinforcement: Synthetic textile fabrics and

embedded steel wire helix

Cover: Red EPDM rubber compound,

non-marking, abrasion and

weather-resistant



- According to FDA, BfR class 2, DM 21/03/73, EC 1935/2004
- Up to 96 % alcoholic content
- Excellent flexibility, kink resistance, easy handling
- ADI free
- Crimped Stainless Steel Fittings available
- Design Factor 3:1Vacuum: 0.9 bar

Tolerances

According to RMA steel mandrel Refer to Technical Handbook on page TH35

Temperature Range

-40 °C (-40 °F) to +120 °C (+248 °F) sterilization at 110 °C for max 30 min.

Part Number			S Ma	ax. Working	Weight	min. Bend Radius	in Stock	
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36242501/40	19	29	1.0	150.0	10	0.67	80	Ν
IH36242502/40	25	35	1.0	150.0	10	0.80	125	Ν
IH36242503/40	30	42	1.0	150.0	10	1.11	150	Ν
IH36242504/40	32	44	1.0	150.0	10	1.23	160	Ν
IH36242505/40	38	50	1.0	150.0	10	1.38	190	Υ
IH36242506/40	40	52	1.0	150.0	10	1.41	200	Ν
IH36242507/40	45	57	1.0	150.0	10	1.62	225	Ν
IH36242508/40	51	64	1.0	150.0	10	1.88	255	Υ
IH36242509/40	60	73	1.0	150.0	10	2.24	300	Ν
IH36242510/40	63.5	77	1.0	150.0	10	2.60	320	Υ
IH36242511/40	76	89	1.0	150.0	10	3.00	390	Υ
IH36242512/40	80	93	1.0	150.0	10	3.17	440	Ν
IH36242513/20	102	116	1.0	150.0	10	4.60	560	N







GAMBRINUS BLACK SM 10

For abrasive dry food such as flour, sugar, grains, granules, pellets and animal food. Suitable for suction and delivery.

Hose Construction

Tube: White, NR phthalates free, abra-

sion resistant, food quality rubber

compound

Reinforcement: Synthetic textile fabrics, embedded

steel wire helix and built-in copper

wire

Cover: Black NR/SBR rubber compound,

antistatic (R<1M Ω), abrasion, weather and ozone resistant.

Temperature Range

-40 °C (-40 °F) to +80 °C (+176 °F) sterilization at 110 °C for max 30 min.



- According to FDA, BfR class 2, DM 21/03/73, EC 1935/2004
- In-plant and tank transfer, delivery and transport
- Design Factor 3:1
- Vacuum: 0.9 bar

Tolerances

Part Number	per Der			Max. Working Pressure			min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH36242203/40	51	65	1.0	150.0	10	1.92	300	N
IH36242204/40	60	75	1.0	150.0	10	2.30	360	Ν
IH36242205/40	63.5	79	1.0	150.0	10	2.43	380	Ν
IH36242206/40	70	86	1.0	150.0	10	2.80	420	Ν
IH36242207/40	76	92	1.0	150.0	10	3.25	450	Ν
IH36242208/40	80	96	1.0	150.0	10	3.45	480	N
IH36242209/20	102	118	1.0	150.0	10	4.80	610	Ν





VINITRESS

For delivery of foodstuff in general industrial purposes and for agriculture applications.

Hose Construction

Flexible, transparent PVC hose having a textile reinforcement between the walls.

Temperature Range

-20 °C (-4 °F) TO +60 °C (140 °F) sterilization at 130 °C for short periods



- According to European Directive EC 90/128 Class A, B and C
- Low duty mission profile
- Transparent structure to visually monitor the passage of media
- Design Factor 3:1

Tolerances

Refer to Technical Handbook on page TH35

Part Number			₩	ax. Working	g Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH35033229/100	6	12	2.0	300.0	20	0.10	40	Υ
IH35033230/100	8	14	2.0	300.0	20	0.13	50	Υ
IH35033223/50	9	15	2.0	300.0	20	0.14	50	Υ
IH35033231/100	10	16	2.0	300.0	20	0.15	60	Υ
IH35033220/50	13	19	1.2	174.0	12	0.18	80	Υ
IH35033222/50	15	21	1.2	174.0	12	0.21	90	Υ
IH35033221/50	19	26	1.0	150.0	10	0.30	110	Υ
IH35033245/50	25	33	0.8	116.0	8	0.44	150	Υ
IH35033241/25	32	42	0.7	101.5	7	0.71	190	Ν
IH35033246/25	38	48	0.6	87.0	6	0.82	230	Ν
IH35033240/25	40	50	0.6	87.0	6	0.86	240	Ν
IH35033242/25	50	64	0.5	72.5	5	1.53	300	Ν



APERSPIR

Suitable for suction and delivery of foodstuff in general industrial purposes and for agriculture applications.

Hose Construction

Flexible and light hose having an harmonic steel wire helix embedded in a transparent PVC wall.

Temperature Range

-10 °C (+14 °F) to +60 °C (+140 °F)



- According to European Directive EC 90/128 Class A, B and C
- Medium and heavy duty mission profile
- Vacuum: 0.8 bar

Tolerances

Refer to Technical Handbook on page TH35

Part Number			S Ma	ax. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	Wall (mm)	MPa	psi	bar	kg/m	mm	
IH35641012/30	12	3.1	1.5	217.5	15	0.19	20	Υ
IH35641016/50	16	3.1	1.5	217.5	15	0.26	30	Υ
IH35641019/50	19	3.5	1.2	174.0	12	0.33	40	Υ
IH35641020/50	20	3.5	1.2	174.0	12	0.34	40	Υ
IH35641025/50	25	4.2	1.1	159.5	11	0.52	50	Υ
IH35641030/50	30	4.2	1.0	150.0	10	0.63	60	Υ
IH35641032/50	32	4.5	0.95	137.75	9.5	0.66	60	Υ
IH35641038/50	38	4.5	0.8	116.0	8	0.80	80	Υ
IH35641040/50	40	5	0.8	116.0	8	0.95	80	Υ
IH35641045/50	45	5	0.75	108.75	7.5	1.15	90	Υ
IH35641050/50	50	5.4	0.7	101.5	7	1.30	100	Υ
IH35641060/50	60	6.1	0.6	87.0	6	1.75	120	Υ
IH35641075/50	75	7	0.45	65.25	4.5	2.30	150	Υ
IH35641100/30	100	8	0.3	43.5	3	3.65	200	Υ
IH35641120/30	120	8	0.2	29.0	2	4.30	240	Ν
IH35641125/30	125	8.3	0.2	29.0	2	4.60	250	Ν
IH35641150/20	150	9.5	0.2	29.0	2	6.50	300	Ν

APERSPIR I.D. mm. TOOD QUALITY - MADE IN ITALY - PARKER



ENOREX

Suction and delivery of wine and liquid foodstuffs in cellars, stores and docks for loading and unloading tankers and storage tankers.

Hose Construction

Flexible and light hose having a red, rigid PVC spiral embedded in transparent PVC wall, manufactured with materials according to 2007/19/EC European Standard for foods, and 2002/95/EC European standard RoHS.

Temperature Range

-25 °C (-13 °F) to +60 °C (+140 °F)



- According to EC 1935/2004 Class A, B and C
- Heavy duty mission profile
- Vacuum: 0.9 bar
- Design Factor 3:1

Tolerances

Refer to Technical Handbook on page TH35

Part Number			♀ м	ax. Workinç	Weight	min. Bend Radius	in Stock	
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH35620025/50	25	34	1.0	150.0	10	0.55	125	N
IH35620030/50	30	40	1.0	150.0	10	0.65	150	Ν
IH35620040/50	40	50	0.9	130.5	9	0.85	200	Ν
IH35620050/50	50	62	0.8	116.0	8	1.20	250	Ν
IH35620060/50	60	72	0.75	108.8	7.5	1.60	360	Ν
IH35620080/50	80	94	0.65	94.25	6.5	2.20	520	Ν
IH35620100/25	100	116	0.5	72.5	5	3.36	650	Ν
IH35620120/25	120	138	0.3	43.5	3	4.20	780	N



TE POTABLE WATER PU HOSE

Used in mobile applications to transfer large volumes of drinking water from tank trucks to major public events or work sites, as well as emergency water supply lines to bypass water mains where service has been curtailed due to construction.

Hose Construction

Polyurethane extruded through one woven polyester ply of reinforcement.

Temperature Range

-40 °C (-40 °F) to +80 °C (+176 °F)

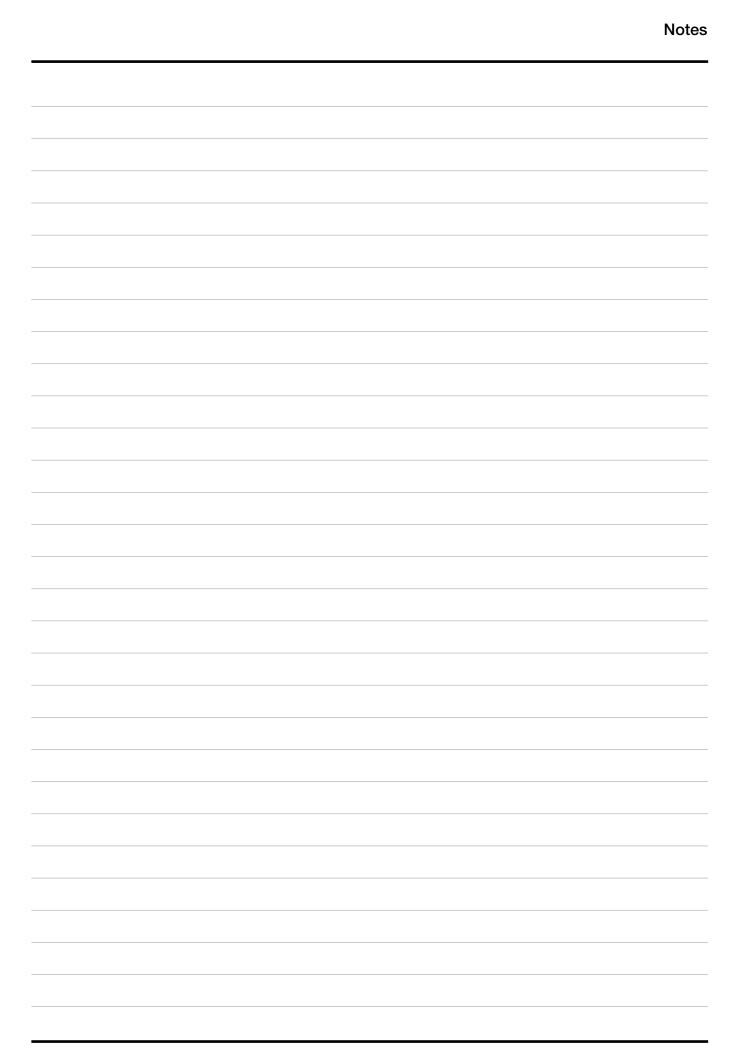


- Has been fully tested to prove compatibility with potable water, including taste and odour
- Much easier to couple, install and remove than polyethylene pipe
- High performing polymer preserve from fluid contamination.
- In compliance with Drinking Water Inspectorate (DWI), Polish National Institute of Public Health, Water Regulations Advisory Scheme (WRAS) and USA NSF 61
- Design Factor 2:1

Part Number		Iominal Diameter			Max. Working Pressure			min. Bend Radius	in Stock
	(mm)	(inch)	Wall (mm)	MPa	psi	bar	kg/m	mm	
TE15X200MBPW	38	1½	2.15	3.1	450.0	31	0.331	-	N
TE20X200MBPW	51	2	2.30	3.1	450.0	31	0.408	_	N
TE25X200MBPW	63.5	2 ½	2.30	3.1	450.0	31	0.580	_	Ν
TE40X200MBPW	102	4	3.30	1.8	270.0	18	1.137	_	Ν
TE60X200MBPW	152	6	3.05	2.0	300.0	20	1.717	_	Ν











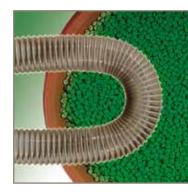


aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Ducting







J – Ducting

Hose	ID Range (mm)	Temp. Range (°C)	Application
ASPIREX	20 - 250	-15 / +60	suction equipment
ASPIREX 140 °C	40 - 200	-40 / +140	suction equipment
ASPIREX PU/ANC	38 - 100	-25 / +85	suction equipment



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
PVC	PVC wire	PVC	-	-	yes		J4
SANTO- PRENE	steel wire		-	-	yes		J5
PU	PVC and copper wire		-	-	yes		J6





ASPIREX

Suitable for suction of air, dust, fumes, saw-dust and wood-shavings. Also suitable for centralized suction equipment in wood, textile, china and welding equipment. It is also suitable for use on agricultural machinery.

Hose Construction

Flexible hose having a grey, rigid PVC spiral embedded in a metalized grey, flexible PVC wall. Externally corrugated, smooth inner surface. Self-extinguishing according to UL 94 Class V2.

Temperature Range

-15 °C (+5 °F) to +60 °C (+140 °F)



- Self-extinguishing hose
- General purpose hose
- Not to be used under pressure
- Vacuum 0.75 bar for ID up to 50 mm then 0.40 bar

Tolerances

Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	Wall (mm)	MPa	psi	bar	kg/m	mm	
IH35560020/50	20	2.6	_	_	_	0.14	20	Υ
IH35560025/50	25	2.9	-	-	-	0.18	25	Υ
IH35562032/50	32	3.3	_	_	-	0.27	32	Υ
IH35560040/50	40	3.9	-	-	-	0.36	40	Υ
IH35560050/50	50	4.2	_	_	-	0.52	50	Υ
IH35560060/50	60	4.4	_	_	-	0.64	60	Υ
IH35560070/50	70	4.8	_	_	_	0.76	70	Υ
IH35560080/50	80	5.0	_	_	-	0.97	80	Υ
IH35560100/30	100	5.3	_	_	_	1.27	100	Υ
IH35560120/30	120	5.6	-	_	-	1.58	120	Ν
IH35560150/30	150	5.9	_	_	_	2.15	150	Ν
IH35562160/30	160	6.1	-	_	-	2.28	160	Ν
IH35560200/15	200	7.0	_	_	_	2.95	200	Ν
IH35560250/15	250	8.0	-	-	-	4.00	250	N





ASPIREX 140°

Suction hose for: air, smoke, vapours, exhaust gas, dust, chips, grains, pellets.

Good resistance to acids and lyes, resistant also to polychloroprene (CR), against hydrocarbons, oils. Very good resistance also to abrasion, atmospheric and ageing conditions. Oil resistant as per ASTM D 2000.

Recommendation: the hose has to be used in static conditions and not in dynamic conditions.

Hose Construction

Black hose in Santoprene with an integrated steel spiral.

Temperature Range

-25 °C (-13 °F) to +125 °C (+257 °F), With peaks up to +140 °C (+284 °F) for a short period



- Multiple media suction hose
- Oil resistant according ASTM D 2000
- Designed for high temperature application
- Not to be used under pressure
- Vacuum 0.3 bar for ID up to 50 mm then 0.25 bar

Tolerances

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	Wall (mm)	MPa	psi	bar	kg/m	mm	
IH35579040/30	40	3.0	-	-	-	0.20	46	N
IH35579050/30	50	3.0	-	-	-	0.28	56	Ν
IH35579063/30	63	3.0	-	-	-	0.34	69	Ν
IH35579075/30	75	3.5		-	-	0.42	82	Ν
IH35579090/30	90	3.5	-	-	-	0.52	97	Ν
IH35579100/30	100	3.5	-	-	-	0.66	107	Ν
IH35579110/30	110	3.5	-	-	-	0.72	117	Ν
IH35579125/30	125	3.5	-	-	-	0.80	132	Ν
IH35579150/30	150	3.5	-	-	-	1.10	157	Ν
IH35579200/10	200	3.5	-	-	-	1.80	200	Ν





ASPIREX PU/ANC

Suitable for suction of warm air, abrasion dust, warm fumes, saw-dust, wood-shavings, cement, cereal grains, sugar, and other granules.

Hose Construction

PU transparent and antistatic hose having a grey, rigid PVC spiral, resistant to crush, abrasion and ozone, with antistatic 9 wires copper cord. Food and beverage – The polyurethane used is in conformity to:

- F.D.A. CFR 21 parts 175, 105, 177, 1680, 177, 2600;
- CEE 82/711, 85/572, 89/109, 90/128, 92/30, 93/8, 95/3, 98/11

Temperature Range

-25 °C (-13 °F) to +85 °C (+185 °F)



- In conformity with FDA title 21 and multiple EC specs
- Strong abrasion resistance
- Not to be used under pressure
- Vacuum 0.5 bar for ID up to 32 mm then 0.40 bar

Tolerances

Refer to Technical Handbook on page TH35

Part Number			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH35576038/20	38	44.6	_	_	_	0.23	45	N
IH35576050/20	50	57.0	-	-	-	0.31	57	Υ
IH35576060/20	60	67.4	_	_	_	0.39	67	Ν
IH35576080/20	80	89.0	_	-	_	0.61	89	Υ
IH35576102/20	102	112.4	_	_	_	0.84	112	Υ



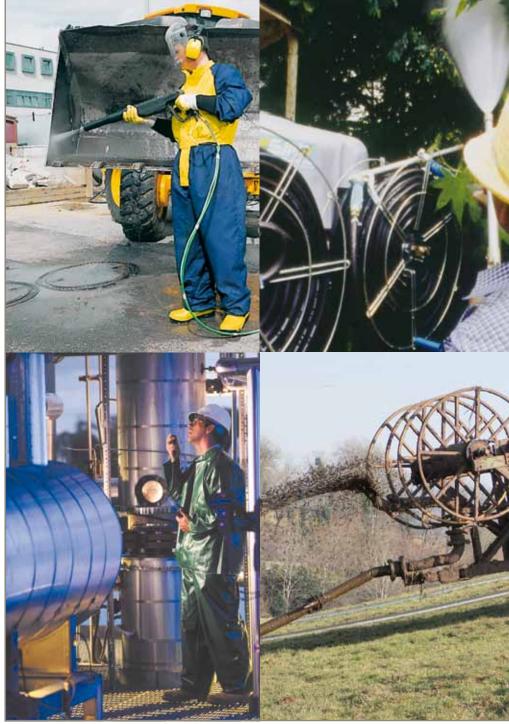
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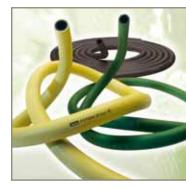


aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Multipurpose







K - Multipurpose

Hose	ID Range (mm)	Temp. Range (°C)	Application
GST II 15 BAR N/L	5 - 38	-40 / +100	compressed air, non aggressive liquids
GST II 15 BAR NR/L	6.5 - 38	-40 / +100	compressed air, non aggressive liquids
GST II 20 BAR N/L	6.5 - 25	-40 / +100	compressed air, non aggressive liquids
PYTHON N/L 20	10 - 50	-40 / +120	multipurpose
PYTHON NV/L 20	10 - 50	-40 / +120	multipurpose
PYTHON NY/L 30	6 - 100	-40 / +120	multipurpose
JUMBO N/L	13 - 25	-40 / +120	multipurpose
E-Z FROM MP	12.7 - 75	-34 / +120	high flexible hose for multipurpose
OILPRESS N/L 20	6 - 25	-35 / +100	multipurpose
OILPRESS N/L 30	6 - 25	-35 / +100	multipurpose
ARCTIC EDGE	6.3 - 38	-57 / +100	low temperature multipurpose
JIFFY	6.5 - 19	-40 / +100	multipurpose
APERFRUT 20	8 - 19	-15 / +60	agricultural spray
APERFRUT 40	8 - 13	-15 / +60	agricultural spray
APERFRUT 80	8 - 13	-15 / +60	agricultural spray
TE AS Antistatic PU Hose	38 - 51	-40 / +80	multipurpose
TS Slurry PU Hose	90 - 125	-40 / +80	slurry transfert



Tube	Reinforce- ment	Cover	WP (bar)	Design Factor	Suction	Industry standard	Page
EPDM	textile	EPDM	15	4			K4
EPDM	textile	EPDM	15	4			K 5
EPDM	textile	EPDM	20	4			K6
EPDM	textile	EPDM	20	3			K 7
EPDM	textile	EPDM	20	3			K8
EPDM	textile	EPDM	30	3			K 9
EPDM	textile	EPDM	20	3			K10
CR	textile	CR	5	4	yes		K11
NBR	textile	NBR/PVC	20	3			K12
NBR	textile	NBR/PVC	30	3			K12
NBR	textile + copper wires	CR	20	4			K13
NBR	texitle	CR	20	4	yes	MSHA approved	K14
PVC	textile	PVC	20	4			K15
PVC	textile	PVC	40	3			K15
PVC	textile	PVC	80	2.5			K15
PU	textile + copper wires	PU	20	2			K16
PU	textile	PU	10	2			K17



GST II BLACK 15

Parker Global Product

In agriculture, construction, air tool lubricant systems and general industrial for air (including oil mist), mild chemicals and water. Suitable for MRO and OEM channel. Not to be used with oil or refined fuel.

Hose Construction

Tube: Black EPDM,

antistatic rubber compound

Reinforcement: Synthetic textile yarns.

Cover: Black, smooth EPDM antistatic

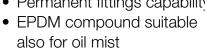
> rubber compound resistant to abrasion, heat and ozone

Temperature Range

-40 °C (-40 °F) to +100 °C (+212 °F)



- Nitrosamine free
- Permanent fittings capability



- Suitable in Atex surroundings
- Design Factor 4:1

Tolerances

According to UNI EN ISO 1307 Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH709319200/40	5	11	1.5	200.0	15	0.10	40	N
IH709325200/100	6.5	13	1.5	200.0	15	0.13	50	Υ
IH709325200/40	6.5	13	1.5	200.0	15	0.13	50	Υ
IH709331200/100	8	15	1.5	200.0	15	0.16	65	Υ
IH709331200/40	8	15	1.5	200.0	15	0.16	65	Υ
IH709338200/100	9.5	17	1.5	200.0	15	0.20	75	Υ
IH709338200/40	9.5	17	1.5	200.0	15	0.20	75	Υ
IH709350200/100	13	21	1.5	200.0	15	0.29	105	Υ
IH709350200/40	13	21	1.5	200.0	15	0.29	105	Υ
IH709363200/100	16	25	1.5	200.0	15	0.36	130	Υ
IH709363200/40	16	25	1.5	200.0	15	0.36	130	Υ
IH709375200/40	19	28	1.5	200.0	15	0.49	150	Υ
IH7093100200/40	25	36	1.5	200.0	15	0.69	200	Υ
IH7093125204/40	32	45	1.5	200.0	15	1.15	230	Υ
IH7093150204/40	38	52	1.5	200.0	15	2.76	250	Υ

Parker SERIES 7093 GST® II ... ID (..mm) 200 PSI (15 bar) MAX WP





GST II RED 15

Parker Global Product

In agriculture, construction, air tool lubricant systems and general industrial for air (including oil mist), mild chemicals and water. Suitable for MRO and OEM channel. Not to be used with oil or refined fuel..

Hose Construction

Tube: Black EPDM,

antistatic rubber compound.

Reinforcement: Synthetic textile yarns

Cover: Red, smooth EPDM insulating

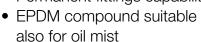
rubber compound resistant to abrasion, heat and ozone

Temperature Range

-40 °C (-40 °F) to +100 °C (+212 °F)



- Nitrosamine free
- Permanent fittings capability



• Design Factor 4:1



Tolerances

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH709225200/40	6.5	13	1.5	200.0	15	0.13	50	N
IH709231200/40	8	15	1.5	200.0	15	0.16	65	Ν
IH709238200/40	9.5	17	1.5	200.0	15	0.20	75	Ν
IH709250200/40	13	21	1.5	200.0	15	0.29	105	Υ
IH709263200/40	16	25	1.5	200.0	15	0.36	130	Υ
IH709275200/40	19	28	1.5	200.0	15	0.49	150	Υ
IH7092100200/40	25	36	1.5	200.0	15	0.69	200	Υ
IH7092125204/40	32	45	1.5	200.0	15	1.15	230	Ν
IH7092150204/40	38	52	1.5	200.0	15	2.76	250	Ν





GST II BLACK 20

Parker Global Product

Designed for compressed air with traces of oil in industrial application. Also suitable in agriculture, construction, and general industry for water, mild chemicals and non aggressive fluids. Not to be used with oil or refined fuel.

Hose Construction

Tube: Black EPDM,

antistatic rubber compound.

Reinforcement: Synthetic textile yarns.

Cover: Black, smooth EPDM antistatic

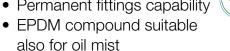
> rubber compound resistant to abrasion, heat and ozone

Temperature Range

-40 °C (-40 °F) to +100 °C (+212 °F)



- Nitrosamine free
- Permanent fittings capability



- Suitable in Atex surroundings
- All sizes on stock
- Design Factor 4:1

Tolerances

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH709325300/100	6.5	14	2.0	300.0	20	0.16	50	Υ
IH709331300/100	8	16	2.0	300.0	20	0.20	65	Υ
IH709338300/100	9.5	17.5	2.0	300.0	20	0.23	75	Υ
IH709350304/100	13	22	2.0	300.0	20	0.36	105	Υ
IH709363304/100	16	27	2.0	300.0	20	0.52	130	Υ
IH709375304/40	19	29.5	2.0	300.0	20	0.56	150	Υ
IH7093100304/40	25	36.5	2.0	300.0	20	0.75	200	Υ



PYTHON N/L 20

Designed for air, cold and hot water and light-chemical media. Major properties of PYTHON hoses are:

- high ozone resistance
- antistatic resistance
- high temperature resistance
- low temperature resistance
- non-staining cover
- high flexibility

Hose Construction

Tube: Black, antistatic (R<10 6 Ω/m),

smooth EPDM nitrosamine free rubber compound, resistant to light-

chemical media

Reinforcement: Synthetic textile yarns

Cover: Black, antistatic (R<10 6 Ω/m),

smooth EPDM nitrosamine free

rubber compound



- Antistatic tube and cover suitable for Atex applications
- Unmatchable handiness
- Wide range temperature
- Its versatility of use helps to keep a controlled stock
- Nitrosamine free
- Design Factor 3:1



Temperature Range

-40 °C (-40 °F) to +120 °C (+248 °F) with peaks to +140 °C (+284 °F)

Tolerances

I.D. ≤ 25 mm according to UNI EN ISO 1307 I.D. > 25 mm according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30351270/40	10	17	2.0	300.0	20	0.22	60	Υ
IH30351271/40	13	20	2.0	300.0	20	0.26	80	Υ
IH30351272/40	15	22	2.0	300.0	20	0.29	90	Υ
IH30351273/40	19	27	2.0	300.0	20	0.41	110	Υ
IH30351274/40	25	34	2.0	300.0	20	0.60	150	Υ
IH36351270/40	32	44	2.0	300.0	20	0.98	320	Υ
IH36351271/40	38	51	2.0	300.0	20	1.20	380	Υ
IH36351272/40	50	66	2.0	300.0	20	1.76	500	Υ



PYTHON NV/L 20

Designed for air, cold and hot water and light-chemical media. Major properties of PYTHON hoses are:

- high ozone resistance
- antistatic resistance
- high temperature resistance
- low temperature resistance
- non-staining cover
- high flexibility

Hose Construction

Tube: Black, antistatic, smooth EPDM

nitrosamine free rubber compound,

resistant to light-chemical media

Reinforcement: Synthetic textile yarns **Cover:** Green, smooth EPDM

nitrosamine free rubber compound

Temperature Range

-40 °C (-40 °F) to +120 °C (+248 °F) with peaks to +140 °C (+284 °F)



- Unmatchable handiness
- Its versatility of use helps to keep a controlled stock
- Wide range temperature
- Nitrosamine free
- Design Factor 3:1



Tolerances

I.D. ≤ 25 mm according to UNI EN ISO 1307 I.D. > 25 mm according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30351200/40	10	17	2.0	300.0	20	0.22	60	Υ
IH30351201/40	13	20	2.0	300.0	20	0.26	80	Υ
IH30351202/40	15	22	2.0	300.0	20	0.29	90	Υ
IH30351203/40	19	27	2.0	300.0	20	0.41	110	Υ
IH30351204/40	25	34	2.0	300.0	20	0.60	150	Υ
IH36351201/40	32	44	2.0	300.0	20	0.98	320	Υ
IH36351202/40	38	51	2.0	300.0	20	1.20	380	Υ
IH36351203/40	42	56	2.0	300.0	20	1.42	420	Υ
IH36351204/40	50	66	2.0	300.0	20	1.76	500	Υ



PYTHON NY/L 30

Designed for air, cold and hot water and light-chemical media. Major properties of PYTHON hoses are:

- high ozone resistance
- antistatic resistance
- high temperature resistance
- low temperature resistance
- non-staining cover
- high flexibility

Hose Construction

Tube: Black, antistatic, smooth EPDM

nitrosamine free rubber compound, resistant to light-chemical media

Reinforcement: Synthetic textile yarns **Cover:** Yellow, smooth EPDM

nitrosamine free rubber compound

Temperature Range

-40 °C (-40 °F) to +120 °C (+248 °F) with peaks to +140 °C (+284 °F)



- Unmatchable handiness
- Its versatility of use helps to keep a controlled stock
- Wide range temperature
- Nitrosamine free
- Design Factor 3:1



Tolerances

I.D. \leq 25 mm according to UNI EN ISO 1307 I.D. > 25 mm according to RMA steel mandrel Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30351250/40	6	14	3.0	450.0	30	0.18	40	Υ
IH30351251/40	8	17	3.0	450.0	30	0.25	50	Υ
IH30351252/40	10	20	3.0	450.0	30	0.34	60	Υ
IH30351253/40	13	23	3.0	450.0	30	0.40	80	Υ
IH30351254/40	16	27	3.0	450.0	30	0.52	100	Υ
IH30351255/40	19	30	3.0	450.0	30	0.60	110	Υ
IH30351256/40	25	37	3.0	450.0	30	0.88	150	Υ
IH36351250/40	32	44	3.0	450.0	30	0.95	320	Υ
IH36351251/40	38	51	3.0	450.0	30	1.20	380	Υ
IH36351252/40	42	56	3.0	450.0	30	1.45	420	Ν
IH36351253/40	50	66	3.0	450.0	30	1.93	500	Υ
IH36351254/20	65	82	3.0	450.0	30	2.50	650	Ν
IH36351255/20	76	92	3.0	450.0	30	3.08	750	Υ
IH36351256/20	100	122	3.0	450.0	30	5.05	1000	N



JUMBO

Suitable for the discharge of hot and cold water, air and light-chemical media in many industrial and agricultural applications.

Hose Construction

Tube: Black, smooth EPDM nitrosamine

free rubber compound

Reinforcement: Synthetic textile yarns

Cover: Black, smooth EPDM nitrosamine

free rubber compound with three red, longitudinal and different

stripes, resistant to abrasion, heat

and weathering

Temperature Range

-40 °C (-40 °F) to +120 °C (+248 °F)



- Agriculture, construction and general industrial
- Long lasting embossed type branding
- Three red strips for easy hose identification
- Nitrosamine free
- Design Factor 3:1



Tolerances

Part Number			Max	Tiac				
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH30116500/40	13	19	2.0	300.0	20	0.21	75	Υ
IH30116501/40	15	22	2.0	300.0	20	0.28	90	Υ
IH30116502/40	19	27	2.0	300.0	20	0.40	110	Υ
IH30116504/40	25	34	2.0	300.0	20	0.57	150	Υ



E-Z FORM MP

Parker Global Product

Suitable for biodiesel, diesel, ethanol and gasoline in oil suction/return lines, vehicle fuel fill connector lines, drain lines on buses, cranes, mobile off-road equipment. Extremely flexible and lightweight it reduces installation times, eliminates special design, tooling and fabrication cost. Capable of being routed though confined spaces where preshaped and formed hose are normally required. Do not use for fuel dispensing or drag across sharp edges or very abrasive surfaces.

Hose Construction

Tube: Black CR, antistatic rubber com-

pound

Reinforcement: Multiple textile plies with wire helix

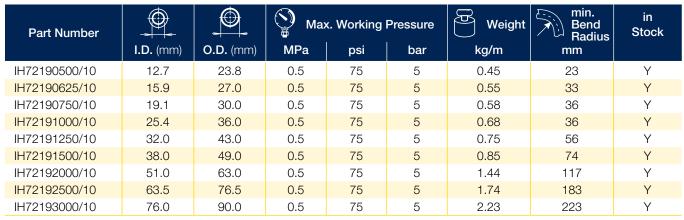
Cover: Black, Greek corrugated CR rub-

ber compound resistant to oil and

weathering

Temperature Range

ID up to 25 mm: -34 °C (-30 °F) to +121 °C (+250 °F) all other sizes: -29 °C (-20 °F) to +93 °C (+200 °F)





- Saves time and costs thanks to easy and quick assembly
- Superior kink resistance, minimal force to bend, outstanding flexibility
- Permanent fittings capability
- Design Factor 4:1
- Vacuum: 0.9 bar

Tolerances



OILPRESS N/L 20 - 30

Suitable for multi-purpose applications requiring transfer of many types of fluids and for petroleum products with aromatic content not exceeding 50 %.

Hose Construction

Tube: Smooth, black, oil and fuel resistant

NBR rubber compound, suitable for petroleum products with aromatic content not exceeding 50 %

Reinforcement: Synthetic textile yarns

Cover: Smooth, black, self-extinguishing,

antistatic (R < 1 M Ω /m) heat, oil, abrasion and weather resistant NBR/PVC rubber compound

Temperature Range

-35 °C (-31 °F) to +100 °C (+212 °F), with peaks up to +120 °C (+248 °F) for oil



- Agriculture, construction and general industrial
- Suitable for many different fuels included Biodiesel B100
- Two different Working Pressure lines
- Wide range temperature
- Design Factor 3:1

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
OILPRESS N/L 20	•		,	,				
IH30832000/40	6	12	2.0	300.0	20	0.12	25	Υ
IH30832001/40	8	14	2.0	300.0	20	0.15	35	Υ
IH30832002/40	10	17	2.0	300.0	20	0.21	40	Υ
IH30832003/40	13	20	2.0	300.0	20	0.26	55	Υ
IH30832004/40	16	23	2.0	300.0	20	0.31	65	Υ
IH30832005/40	19	28	2.0	300.0	20	0.47	80	Υ
IH30832006/40	25	36	2.0	300.0	20	0.74	100	Υ
OILPRESS N/L 30								
IH30832031/40	6	14	3.0	450.0	30	0.18	25	Ν
IH30832032/40	8	16	3.0	450.0	30	0.21	30	Ν
IH30832038/40	9	17	3.0	450.0	30	0.24	35	Ν
IH30832033/40	10	18	3.0	450.0	30	0.25	40	Υ
IH30832034/40	13	23	3.0	450.0	30	0.40	55	Υ
IH30832035/40	16	27	3.0	450.0	30	0.47	65	N
IH30832036/40	19	30	3.0	450.0	30	0.60	80	N
IH30832039/40	25	37	3.0	450.0	30	0.83	100	N



-Parker

MCXX

RUBBER HOSE OILPRESS W.P. bar R<1M Ω



ARCTIC-EDGE

Parker Global Product

Recommended suitable for air, mild chemicals, water, oil, biodiesel, diesel, ethanol and gasoline to be used in refrigerated applications and cold weather conditions. For agriculture, construction and general industrial. Do not use for fuel dispensing.

Hose Construction

Tube: Black NBR rubber compound. **Reinforcement:** Multiple textile plies with static wire

Black, smooth CR rubber Cover:

compound resistant to oil and

weathering

Temperature Range

-57 °C (-70 °F) to +100 °C (+212 °F)



- High flexibility and kink resistance at extreme low temperatures
- Conductive hose with copper wire
- Cover incorporates a longitudinal blue stripe for easy identification
- Design Factor 4:1

Tolerances

Part Number			Max	k. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH710210304/40	6.4	15.0	2.0	300.0	20	0.20	65	N
IH710220304/40	8	16.5	2.0	300.0	20	0.26	80	Ν
IH710238304/40	9.5	19	2.0	300.0	20	0.33	96	Ν
IH710250304/40	13	23	2.0	300.0	20	0.43	127	Ν
IH710260304/40	16	26	2.0	300.0	20	0.49	140	Ν
IH710275304/40	19	29.5	2.0	300.0	20	0.56	152	Υ
IH7102100304/40	25	37	2.0	300.0	20	0.79	203	Υ
IH7102125304/40	32	46	2.0	300.0	20	1.25	228	Υ
IH7102138304/40	35	49	2.0	300.0	20	1.31	241	Ν
IH7102150304/40	38	51.5	2.0	300.0	20	1.38	254	Υ







JIFFY

Parker Global Product

Suitable for air, mild chemicals, oil, water, biodiesel, diesel, ethanol and gasoline to be used in air operated paint systems, air tools, transfer lines, vacuum lines. For agriculture, construction and general industrial. Do not use in pulsing applications, airbrake systems or vehicle fuel systems. Push-on couplings do not require bands, clamps or special tools for installation.

Hose Construction

Tube: Black NBR rubber compound,

silicone free

Reinforcement: One textile braid

Cover: Black, smooth CR rubber

compound MSHA

Temperature Range

-40 °C (-40 °F) to +100 °C (+212 °F)



- Reattachable coupling Parker Series 82 Push-Lok®
- Kink resistant and superior coupling retention
- Flame resistant cover meets MSHA requirements
- Design Factor 4:1
- Vacuum: 0.9 bar up to ID13, 0.5 bar for ID16 and ID19

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
IH7212251BK/40	6.5	12.5	2.0	300.0	20	0.13	76	Υ
IH7212381BK/40	9.5	16	2.0	300.0	20	0.16	76	Υ
IH7212501BK/40	13	19	2.0	300.0	20	0.23	127	Υ
IH7212631BK/40	16	23	2.0	300.0	20	0.33	152	Υ
IH7212751BK/40	19	28	2.0	300.0	20	0.46	178	Υ



K14



APERFRUT 20 - 40 - 80

For delivery of air, water and all fungicide products. Particularly suitable for spraying in agriculture. Resistant to compressor oil-mist.

Hose Construction

Tube: Black, smooth, PVC compound

Reinforcement: Synthetic textile yarns

Cover: Orange (20), red (40) and blue (80),

smooth, abrasion, and weatherresistant PVC compound

Temperature Range

-15 °C (+5 °F) to +60 °C (+140 °F)



- Colored cover to distinguish WP level
- Multiple fluids for various industrial applications
- Design Factor

3:1 for 20 and 40 bar

Design Factor2.5:1 for 80 bar

Tolerances

Refer to Technical Handbook on page TH35

Part Number			Max	x. Working	Pressure	Weight	min. Bend Radius	in Stock
	I.D. (mm)	O.D. (mm)	MPa	psi	bar	kg/m	mm	
APERFRUT 20	•	•			,			
IH35040010/100	8	13	2.0	300.0	20	0.11	30	Υ
IH35040012/100	10	15	2.0	300.0	20	0.14	55	Υ
IH35040014/100	13	19	2.0	300.0	20	0.20	85	Υ
IH35040015/100	16	23	2.0	300.0	20	0.29	90	Ν
IH35040016/100	19	26.5	2.0	300.0	20	0.33	100	Υ
APERFRUT 40								
IH35040260/100	8	14	4.0	600.0	40	0.14	30	Υ
IH35040261/100	10	16	4.0	600.0	40	0.17	50	Υ
IH35040114/100	13	21	4.0	600.0	40	0.29	80	Υ
APERFRUT 80								
IH35040268/100	8	15	8.0	1200.0	80	0.17	25	Υ
IH35040270/100	10	18	8.0	1200.0	80	0.23	45	Υ
IH35040214/100	13	23	7.0	1015.0	70	0.38	60	Υ





TE AS ANTISTATIC PU HOSE

Discharge and transfer hose for fluids that develop electrical charges when flowing through the hose. Also suitable for petrol, gasoline and fuels with an aromatic content not exceeding 30 % (at room temperature).

Hose Construction

Polyurethane extruded through one woven polyester ply of reinforcement and dual antistatic wires

Temperature Range

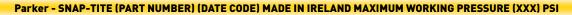
-40 °C (-40 °F) to +80 °C (+176 °F)



- The bright yellow cover provides immediate identification
- Much easier to couple, install and remove than polyethylene pipe
- High performing polymer preserve from fluid contamination
- Design Factor 2:1

Part Number		Iominal Diameter		Max. Working Pressure		Weight	min. Bend Radius	in Stock	
	(mm)	(inch)	Wall (mm)	MPa	psi	bar	kg/m	mm	
TE15X250MYAS	38	1 ½	2.15	2.7	400.0	27	0.33	_	N
TE20X250MYAS	51	2	2.30	3.1	450.0	31	0.41	_	N





K16



Catalogue 4401/UK



TS SLURRY PU HOSE

TS is a heavy duty slurry discharge and transfer hose. The hose construction features a thick wall for additional abrasion resistance and durability in rugged slurry transfer applications.

Hose Construction

Polyurethane extruded through one woven polyester ply of reinforcement

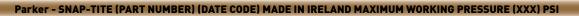
Temperature Range -40 °C (-40 °F) to +80 °C (+176 °F)



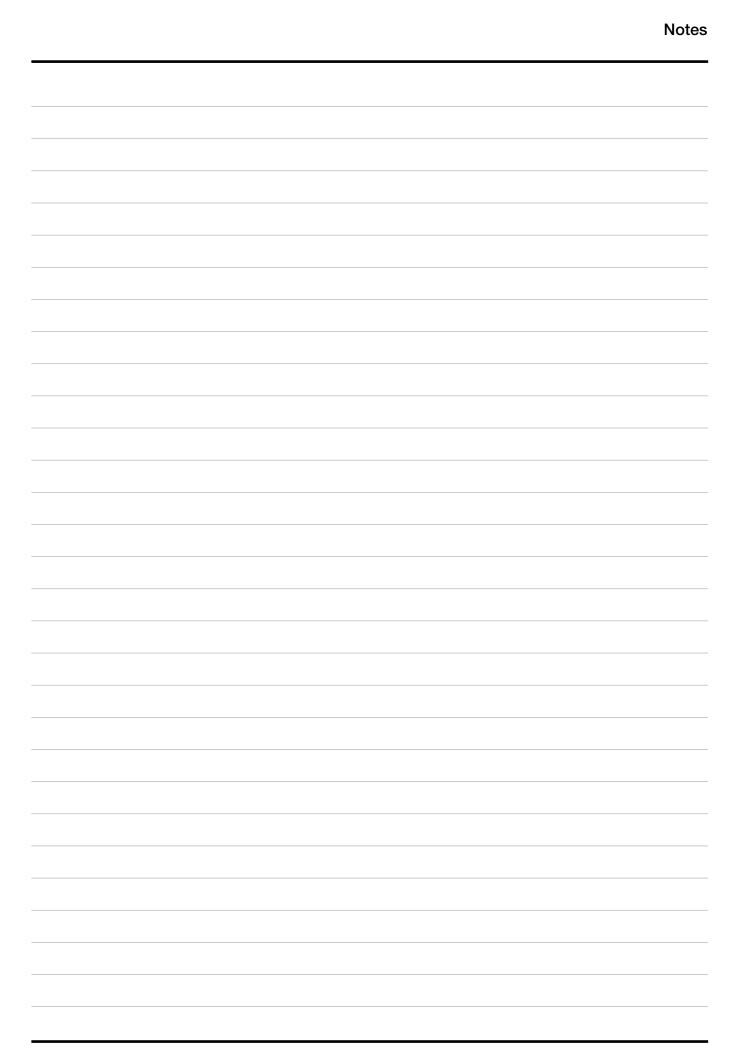
- Higher wall thickness to achieve longer rubbing resistance
- Much easier to couple, install and remove than polyethylene pipe
- Excellent resistance to internal and external abrasion
- Design Factor 2:1

Part Number	Nominal Diameter			Max. Working Pressure			Weight	min. Bend Radius	in Stock
	(mm)	(inch)	Wall (mm)	MPa	psi	bar	kg/m	mm	
TS35X300MN	90	3 ½	3.80	1.7	250.0	17	1.19	_	Ν
TS40X300MN	102	4	3.80	1.7	250.0	17	1.33	_	Ν
TS50X300MN	127	5	3.80	1.7	250.0	17	1.59	_	Ν















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At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further information call free on 00800 27 27 5374.



AEROSPACE

Key Markets

- Aircraft engines
- Business & general aviation
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

Key Products

- Flight control systems
 & components
- Fluid conveyance systems
- Fluid metering delivery & atomization devices
- Fuel systems & components
- Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes



CLIMATE CONTROL

Key Markets

- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

Key Products

- CO² controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves



HYDRAULICS

Key Markets

- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Truck hydraulics

Key Products

- Diagnostic equipment
- Hydraulic cylinders
 & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



PNEUMATICS

Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Brass fittings & valves
- Manifolds
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves & controls
- · Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural extrusions
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors





PROCESS CONTROL

Key Markets

- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

Key Products

- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds



FILTRATION

Key Markets

- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation
- Process
- Transportation

Key Products

- Analytical gas generators
- Compressed air & gas filters
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- air generators





SEALING & SHIELDING

Key Markets

- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut,
- fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management



FLUID & GAS HANDLING

Key Markets

- Aerospace
- Aariculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products

- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- · Quick disconnects

ENGINEERING YOUR SUCCESS.



ELECTROMECHANICAL

Key Markets

- Aerospace
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators
- Controllers
- Gantry robots
- Gearheads
- Human machine interfaces
- Industrial PCs
- Inverters
- Linear motors, slides and stages
- Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions

Parker Worldwide

Europe, Middle East, Africa

AE - United Arab Emirates, Dubai

Tel: +971 4 8127100 parker.me@parker.com

AT – Austria, Wiener Neustadt Tel: +43 (0)2622 23501-0 parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt

Tel: +43 (0)2622 23501 900 parker.easteurope@parker.com

AZ - Azerbaijan, Baku Tel: +994 50 2233 458 parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles Tel: +32 (0)67 280 900 parker.belgium@parker.com

BG - Bulgaria, Sofia Tel: +359 2 980 1344 parker.bulgaria@parker.com

BY - Belarus, Minsk Tel: +48 (0)22 573 24 00 parker.poland@parker.com

CH - Switzerland, Etoy Tel: +41 (0)21 821 87 00 parker.switzerland@parker.com

CZ - Czech Republic, Klecany Tel: +420 284 083 111 parker.czechrepublic@parker.com

DE - Germany, Kaarst Tel: +49 (0)2131 4016 0 parker.germany@parker.com

DK - Denmark, Ballerup Tel: +45 43 56 04 00 parker.denmark@parker.com

ES - Spain, Madrid Tel: +34 902 330 001 parker.spain@parker.com

FI - Finland, Vantaa Tel: +358 (0)20 753 2500 parker.finland@parker.com

FR - France, Contamine s/Arve Tel: +33 (0)4 50 25 80 25 parker.france@parker.com

GR - Greece, Athens Tel: +30 210 933 6450 parker.greece@parker.com **HU - Hungary,** Budaörs Tel: +36 23 885 470 parker.hungary@parker.com

IE - Ireland, Dublin Tel: +353 (0)1 466 6370 parker.ireland@parker.com

IT - Italy, Corsico (MI) Tel: +39 02 45 19 21 parker.italy@parker.com

KZ - Kazakhstan, Almaty Tel: +7 7273 561 000 parker.easteurope@parker.com

NL - The Netherlands, Oldenzaal Tel: +31 (0)541 585 000 parker.nl@parker.com

NO - Norway, Asker Tel: +47 66 75 34 00 parker.norway@parker.com

PL - Poland, Warsaw Tel: +48 (0)22 573 24 00 parker.poland@parker.com

PT - Portugal, Leca da Palmeira Tel: +351 22 999 7360 parker.portugal@parker.com

RO - Romania, Bucharest Tel: +40 21 252 1382 parker.romania@parker.com

RU - Russia, Moscow Tel: +7 495 645-2156 parker.russia@parker.com

SE - Sweden, Spånga Tel: +46 (0)8 59 79 50 00 parker.sweden@parker.com

SK - Slovakia, Banská Bystrica Tel: +421 484 162 252 parker.slovakia@parker.com

SL - Slovenia, Novo Mesto Tel: +386 7 337 6650 parker.slovenia@parker.com

TR - Turkey, Istanbul Tel: +90 216 4997081 parker.turkey@parker.com

UA - Ukraine, Kiev Tel: +48 (0)22 573 24 00 parker.poland@parker.com

UK - United Kingdom, Warwick Tel: +44 (0)1926 317 878 parker.uk@parker.com **ZA - South Africa,** Kempton Park Tel: +27 (0)11 961 0700 parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario Tel: +1 905 693 3000

US - USA, Cleveland Tel: +1 216 896 3000

Asia Pacific

AU - Australia, Castle Hill Tel: +61 (0)2-9634 7777

CN – China, Shanghai Tel: +86 21 2899 5000

HK - Hong Kong Tel: +852 2428 8008

IN - India, Mumbai Tel: +91 22 6513 7081-85

JP – Japan, Tokyo Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul Tel: +82 2 559 0400

MY - Malaysia, Shah Alam Tel: +60 3 7849 0800

NZ - New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG - Singapore Tel: +65 6887 6300

TH - Thailand, Bangkok Tel: +662 186 7000

TW - Taiwan, Taipei Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires Tel: +54 3327 44 4129

BR - Brazil, Sao Jose dos Campos Tel: +55 800 727 5374

CL - Chile, Santiago Tel: +56 2 623 1216

MX - Mexico, Toluca Tel: +52 72 2275 4200

European Product Information Centre Free phone: 00 800 27 27 5374 (from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

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Parker Hannifin Ltd.

Tachbrook Park Drive Tachbrook Park, Warwick, CV34 6TU United Kingdom

Tel.: +44 (0) 1926 317 878 Fax: +44 (0) 1926 317 855 parker.uk@parker.com www.parker.com Edition: September 2015 / Catalogue CAT/4401/UK punctum / Zalsman

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