



KONGSBERG
AUTOMOTIVE

Product Catalogue

Fluid Systems - Specific Products - Multibox



Enhancing the driving experience

Valid from 2012

*Kongsberg Automotive has operations in
twenty countries on four continents.
Our customer portfolio comprises more than
fifty vehicle manufactures.*



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MULTIBOX

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A lifetime of service and support

The world's commercial vehicle manufacturers require innovative solutions that offer functionality, comfort and safety. Kongsberg Automotive's customers include a broad range of leading manufacturers worldwide.

To meet individual specifications on concept, design and technical issues,

vehicle manufacturers prefer a close co-operation with Kongsberg Automotive.

By focusing on easy installation, cost-effectiveness, and environment-friendly solutions, Kongsberg Automotive provides added value to customers all over the world.



www.kongsbergautomotive.com

Aligned with customers' demands

Close follow-up of deliveries is important to customers' success. Potential deviations are therefore resolved at an early phase or eliminated through product modifications. Kongsberg Automotive follows up after-market sales through close contact with vehicle manufacturers and dealers, as well as end users.

Our manufacturing facilities and sales offices have a global reach, enabling us to optimise production and to be close to our customers.

We provide professional service to our customers within:

- ▶ Sales and logistics
- ▶ Product function training
- ▶ Product installation training
- ▶ Product repair training
- ▶ Warranty handling

Kongsberg Automotive has a global network of distributors to ensure rapid delivery to all corners of the world. See our webpages to find the distributor covering your country.



Our business

Kongsberg Automotive is a global provider of engineering, design, and manufacture for seat comfort, driver and motion control systems, fluid assemblies, and industrial driver interface products.

Our product line includes systems for seat comfort, clutch actuation, cable

actuation, gear shifters, transmission control systems, stabilizing rods, couplings, electronic engine controls, speciality hoses, tubes and fittings.

We target the automotive, commercial vehicle and industrial markets.

Our mission

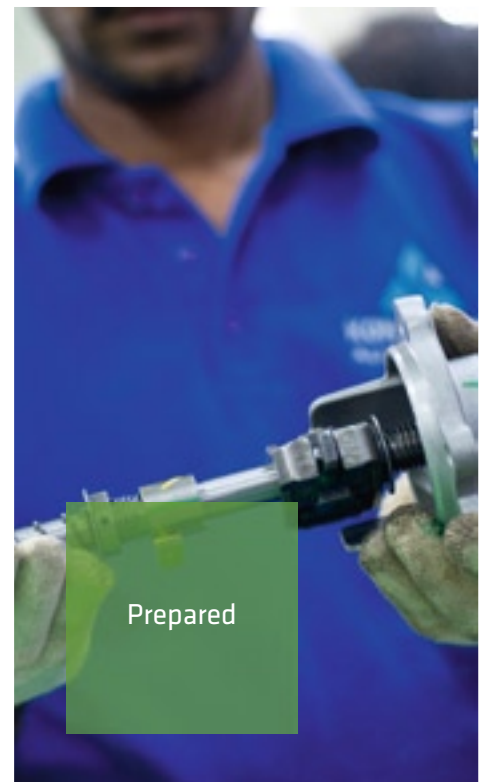
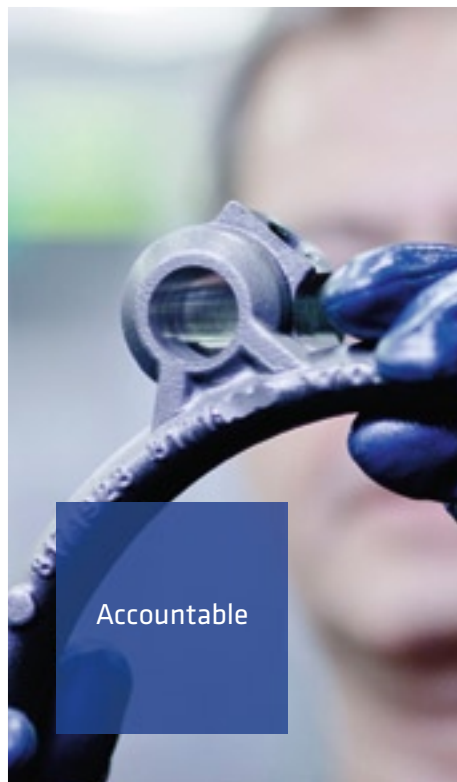
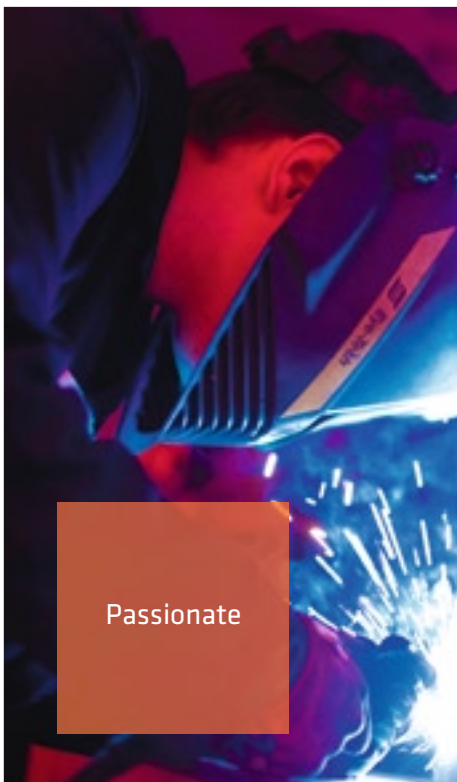
Kongsberg Automotive provides world class products to the global vehicle industry. Our products enhance the driving experience, making it safer, more comfortable and sustainable.

We secure growth and create stakeholder value by:

- Making the health and safety of our employees and the quality of our products a top priority.

- Developing unique solutions for growing market segments, while continuously focusing on improving our processes.

- Having the most passionate, accountable and prepared people, striving to be the best possible partner for our customers and suppliers, creating a company that we're proud to work for.





Enhancing
the driving
experience

Our vision


“Enhancing the driving experience”

Why every day we try to make things better than we did yesterday. No matter what vehicle you drive or operate, it's our vision to enhance your driving experience.

Whatever position, role or work assignment we hold in the KA-team, we all contribute to making your vehicle safer, more comfortable and sustainable. To us this is a never-ending goal, pushing us to look for the better way every day.

Our values

We are Kongsberg Automotive



Passionate
Accountable
Prepared

Products

Quick fitting couplings

Polyamide tubes

Hoses

Air blow-guns sets

Clamping collars

Seal rings

Tools

Miscellaneous

Raccords rapides de servitude

Tubes polyamide

Flexibles

Kits soufflettes

Colliers de fixation

Joints

Outillages

Divers

Schnellkupplungen

Polyamid Rohre

Diverse Schläuche

Druckluftpistole Sets

Klemmschellen

Dichtungsringe

Werkzeuge

Sonstiges



Push-In couplings in brass

Raccords rapides en laiton

Messingsteck- verbinder

Pressure

- Maximum 15 Bars

Temperature

- Minimum -18° C
- Maximum +70° C

Thread

- Conical, according to ISO 7.1, BS 21, DIN 2999
- Cylindrical, according to ISO-228 Class A
- Metrical, according to ISO-R/262

Tubes to use

- Made of plastic: polyamide 6/11/12, polyethylene, polyurethane, etc...

Fluids

- For compressed air

Seal

The particular shape of the lip seal guarantees a perfect seal on the tube in pressure and in depression. All conical or cylindrical threads are equipped with a sealing device.

Hexagonal interior

All cylindrical or conical threaded straight couplings have also a hexagonal form inside which allows to screw the piece in a reduced space.

Pression

- Maximum 15 Bars

Température

- Minimum -18° C
- Maximum +70° C

Filetage

- Gaz conique selon ISO 7.1, BS 21, DIN 2999
- Gaz cylindrique selon ISO-228 classe A
- Métrique selon ISO-R/262

Tubes à utiliser

- En matière plastique : polyamide 6 - 11 - 12, polyéthylène, polyuréthane, etc...

Fluides

- Pour air comprimé

Étanchéité

La forme particulière du joint à lèvres garantit une parfaite étanchéité sur le tube en pression et dépression. Tous les filetages coniques ou cylindriques sont munis d'un dispositif d'étanchéité.

Six pans intérieurs

Tous les raccords droits à filetage cylindrique ou conique disposent également d'un six pans intérieur rendant possible leur vissage dans un espace réduit.

Druck

- Maximum 15 Bars

Temperatur

- Minimum -18° C
- Maximum +70° C

Gewinde

- Kegelfgas gemäß ISO 7.1, BS 21, DIN 2999
- Zylindrisch, gemäß ISO-228 Klasse A
- Metrisch, gemäß ISO-R/262

Rohre zu verwenden

- aus Kunststoff Polyamid 6 - 11 - 12, Polyethylen, Polyurethan, etc...

Flüssigkeiten

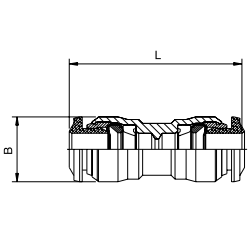

- Für Druck Luft

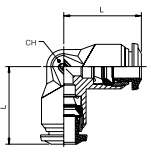

Dichtigkeit

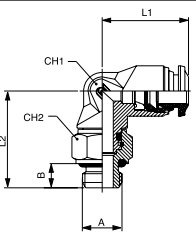

Die besondere Form der Lippendichtung garantiert eine perfekte Abdichtung auf dem Schlauch bei Druck wie bei Unterdruck. Alle konischen oder zylindrischen Gewinde sind mit einem dichtungsverschluss ausgestattet.

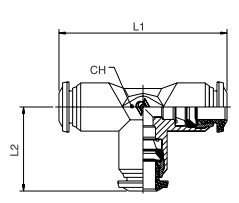




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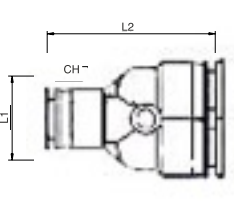

Alle gerade Stutzen mit zylindrischen oder konischen Gewinde verfügen außerdem über ein sechseckiges Innere, das ermöglicht, den Teil in einem engen Raum zu schrauben.



	(GB)	(FR)	(DE)	
	Tube Connector	Union double	Rohr Verbinder	
Ref.	Ø Tube	L	B	
244307	3	27	8	
244308	4	30,5	11,5	
244309	5	33	0,5	
244310	6	34	12,5	
244311	8	36	14,5	
244312	10	42	17,5	
244313	12	47	20,5	
244314	6 - 4	32	12,5	
244315	8 - 6	35	14,5	

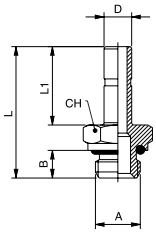

	Elbow equal	Coude égal	Gleichmäßiger Winkel	
Ref.	Ø Tube	L	CH	
244318	4	17	9	
244319	5	20	11	
244320	6	21	11	
244321	8	22,5	13	
244322	10	26,5	16	
244323	12	30,5	19	

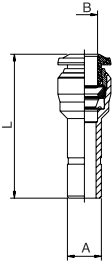

	Orienting elbow male adaptor with o-ring	Coude mâle cylindrique orientable avec joint	Zylindrische Schwenkwinkel mit O-Ring				
Ref.	Ø Tube	A	B	L1	L2	CH1	CH2
244650	4	G1/8"	6	17	22,5	9	13
244651	6	G1/8"	6	21	24,5	11	13
244652	6	G1/4"	8	21	28	11	16
244653	8	G1/8"	6	22,5	26	13	13
244654	8	G1/4"	8	22,5	29	13	16
244656	10	G1/4"	8	26,5	31	16	16
244658	12	G3/8"	9	30,5	36	19	18
244660	4	M5	5	17	20	9	8
244662	5	G1/8"	6	20	24,5	11	13
244664	8	G1/2"	10	22,5	32	13	22
244665	10	G1/2"	10	26,5	34	16	22
244667	6	12x1,0					
244668	8	12x1,5					

					
		Equal T-coupling	Té égal	Gleichmäßiger T-Stück	
Ref.	Ø Tube	L1	L2	CH	
244328	4	34	17	9	
244329	5	40	20	11	
244330	6	42	21	11	
244331	8	45	22,5	13	
244332	10	53	26,5	16	
244333	12	61	30,5	19	

					
		Equal Y-coupling	Y égal	Gleichmäßiger Y-Stück	
Ref.	Ø Tube	L1	L2	CH	
244408	4	11	32	9	
244410	6	13,5	36,5	11	
244411	8	15,5	41	13	

					
		Cylindrical push-in coupling with o-ring	Union mâle cylindrique avec joint	Zylindrische Steckverbindungen mit O-Ring	
Ref.	Ø Tube	G 1			
2440019	4	G1/8"			
2440029	4	G1/4"			
2440049	6	G1/8"			
2440059	6	G1/4"			
2440079	8	G1/8"			
2440089	8	G1/4"			
2440099	8	G3/8"			
2440129	10	G1/4"			
2440139	10	G3/8"			
2440179	12	G1/2"			
2440159	12	G1/4"			

	(GB)	Cylindrical push-in transfer adapter	(FR)	Adaptateur mâle gaz cylindrique	(DE)	Zylindrische Steckverbindungsstück	
	Ref.	D	A	B	L	L1	
244910	6	G8	6	28,5	17	13	
244916	5	G1/4"	8	31	17	16	
244918	4	G1/8"	6	26,5	15	13	
244920	6	G1/4"	8	31	17	16	
244921	8	G1/4"	8	32	18	16	
244940	8	G1/8"	6	29,5	18	13	

	Reducer		Réducteur		Reduzierstück		
	Ref.	A	B	L	Ø		
244950	5	4	29	5 → 4			
244952	8	4	31	8 → 4			
244951	6	4	30	6 → 4			
244955	8	6	34	8 → 6			
244958	10	8	38	10 → 8			

Polyamide tubes (DIN 74324)

Polyamide 12 tubes - black
(UV resistant)

UTAC standard and DIN 74324
for metrical dimensions.

To complement our range
of pneumatic fittings, here are all
the tubes you need:

Polyamide 12 has good resistance
to chemicals. Under conditions of
normal use, it resists against
alkalis, alcohols, ethers,
hydrocarbons, oils, essences,
diesel fuel, detergents, fresh or
salt water, etc.. Usable in a wide
temperature range and compatible
with numerous fluids, these tubes
bring significant benefits:

- lightweight
- excellent resistance to dampness
- No corrosion
- very low coefficient of friction
- good dimensional stability.

Besides, the cost price is quite
advantageous for a product with a
particularly easy implementation.

Operating temperature: - 40° C
to 100° C (Max + 105° C)

Color black - stable temperature
and light - bracking certified

Dimensions and performances
(at 23° C)

Tubes polyamide (DIN 74324)

Tubes polyamide 12 - Couleur noire
(résistant aux ultraviolets)

Normalisés UTAC et DIN 74324
pour les cotes métriques

pour compléter notre gamme
de raccords pneumatiques,
tous les tubes dont vous avez besoin :

Le polyamide 12 possède une bonne
résistance aux produits chimiques.
Dans des conditions normales
d'utilisation, il résiste
aux bases, alcools, éthers,
hydrocarbures, lubrifiants, essences,
gazole, détergents, eau douce
ou salée, etc. Utilisables dans
une large plage de températures
et compatibles avec de nombreux
fluides, les tubes en polyamide 12
apportent à l'utilisateur d'importants
avantages :

- légèreté
- excellente tenue à l'humidité
- absence de corrosion
- très faible coefficient de frottement
- bonne stabilité dimensionnelle.

Il s'y ajoute un prix de revient
intéressant pour un produit de mise
en oeuvre particulièrement facile.

Températures d'utilisation : de - 40° C
à 100° C (Maximum + 105° C)

Coloris noir - stabilisé température
et lumière - homologué freins

Dimensions et performances (à 23° C)

Polyamid-Rohre (DIN 74324)

Polyamid 12 Rohren - schwarz (UV-
beständig)

UTAC Standard-und DIN 74324 für
metrische Anteile

Um unser Angebot von pneumatischen
Kupplungen zu ergänzen, hier ist alles
was Sie brauchen:

Polyamid 12 hat eine gute
Beständigkeit gegen Chemikalien.
Unter den Bedingungen normalem
Gebrauch, widersteht sie Laugen,
Alkohole, Ether, Kohlenwasserstoffe,
Öle, Essenzen, Dieselkraftstoff,
Wasch-, Süß-oder Salzwasser, etc..
verwendet in einem weiten
Temperaturbereich und kompatibel mit
vielen Flüssigkeiten-, Polyamid-Rohre
12 bieten dem Anwender wesentliche
Vorteile:

- Leichtbau
- ausgezeichnete Beständigkeit gegen Feuchtigkeit
- Keine Korrosion
- sehr niedrigen Reibungskoeffizienten
- gute Dimensionsstabilität.





Außerdem sind die Gesteungskosten
vorteilhaft für ein Produkt, deren
Umsetzung besonders einfach ist.


Betriebstemperatur: - 40 ° C bis 100 ° C
(Max + 105 ° C)


Farbe schwarz - stabile Temperatur und
Licht - Für Bremse bestätigt


Abmessungen und Leistungen
(bei 23 ° C)


Correction factor of pressures according to temperature			Facteur de correction des pressions en fonction de la température			Korrekturfaktor des Drucks je nach Temperatur	
- 20° C	0° C	23° C	40° C	60° C	80° C	90° C	
1,8	1,4	1,0	0,7	0,5	0,45	0,38	


 25 meters rolls		 Rouleaux de 25 mètres		 25 Meter Rollen		
Ref.	Ø tube					
583052N	4x1 (2x4)					
583053N	5x1 (3x5)					
583001N	6x1 (4x6)					
583004N	8x1,5 (5x8)					
583003N	8x1 (6x8)					
583013N	9x1,5 (6x9)					
583008N	10x1,5 (7x10)					
583057N	10x1,25 (7,5x10)					
583005N	10x1 (8x10)					
583010N	11x1,5 (8x11)					
583063N	12x2 (8x12)					
583006N	12x1,5 (9x12)					
583007N	12x1 (10x12)					
583014N	14x2 (10x14)					
583009N	15x1,5 (12x15)					
583015N	16x2 (12x16)					
583011N	18x2 (14x18)					


25 meters cardboard		Cartons dérouleur de 25 mètres		Rolle 25 Meter in Karton		
Ref.	Ø tube					
673052N	4x1 (2x4)					
673053N	5x1 (3x5)					
673001N	6x1 (4x6)					
673004N	8x1,5 (5x8)					
673003N	8x1 (6x8)					
673013N	9x1,5 (6x9)					
673008N	10x1,5 (7x10)					
673057N	10x1,25 (7,5x10)					
673005N	10x1 (8x10)					
673010N	11x1,5 (8x11)					
673063N	12x2 (8x12)					
673006N	12x1,5 (9x12)					
673009N	15x1,5 (12x15)					


GB 100 meters rolls	FR Rouleaux de 100 mètres	DE 100 Meter Rollen	
Ref.	Ø tube		
672052	4x1 (2x4)		
672002	6x1,5 (3x6)		
672001	6x1 (4x6)		
672003	8x1 (6x8)		
672013	9x1,5 (6x9)		
672008	10x1,5 (7x10)		
672057	10x1,25 (7,5x10)		
672005	10x1 (8x10)		
672010	11x1,5 (8x11)		
672063	12x2 (8x12)		
672006	12x1,5 (9x12)		
672006TB100	12x1,5 (9x12)	Norme DIN 73378 (Industrial use)	
672006TR100	12x1,5 (9x12)	Norme DIN 73378 (Industrial use)	
672006TY100	12x1,5 (9x12)	Norme DIN 73378 (Industrial use)	
672009	12x1 (10x12)		
672014	14x2 (10x14)		
672007	15x1,5 (12x15)		
672015	16x2 (12x16)		
672011	18x2 (14x18)		



500 meters bench grinders	Touret de 500 mètres	500 Meter Rohrtrommel	
Ref.	Ø tube		
586006	12x1,5 (9x12)		


1000 meters bench grinders	Touret de 1000 mètres	1000 Meter Rohrtrommel	
Ref.	Ø tube		
585003	8x1 (6x8)		


Compressed air coils		Serpentins à air comprimé		Druckluft Spiralschlauch		
Ref.	Color	Number of turns	Designation			
674251	red	16	1 fixed male side 16x1,5 / 1 turning nut side 18x1,5 cone 24° T12			
674252	yellow	16	1 fixed male side 16x1,5 / 1 turning nut side 18x1,5 cone 24° T12			
674253	black	16	1 fixed male side 16x1,5 / 1 turning nut side 18x1,5 cone 24° T12			
674201	red	19	1 fixed male side 16x1,5 / 1 turning nut side 18x1,5 cone 24° T12			
674202	yellow	19	1 fixed male side 16x1,5 / 1 turning nut side 18x1,5 cone 24° T12			
674203	black	19	1 fixed male side 16x1,5 / 1 turning nut side 18x1,5 cone 24° T12			
674221	red	19	1 fixed male bulkhead coupling side 18x1,5 cone 24° T12 / 1 fixed male side 16x1,5			
674222	yellow	19	1 fixed male bulkhead coupling side 18x1,5 cone 24° T12 / 1 fixed male side 16x1,5			
674223	black	19	1 fixed male bulkhead coupling side 18x1,5 cone 24° T12 / 1 fixed male side 16x1,5			

Adapters for compressed air coils		Adaptateurs pour serpentins à air comprimé		Adapter für Druckluft Spiralschlauch		
Ref.	Designation	Thread				
820304	Nipple	M 18x1,5 cone 24° T12 / M 16x1,5 flat-bottom				
820704	Nipple with seal	M 18x1,5 cone 24° T12 / M 16x1,5 flat-bottom				
810604	Straight bulkhead coupling	M 18x1,5 cone 24° T12 Special Iveco-Man-Scania				

Hose couplings		Têtes d'accouplements		Kupplungsköpfe		
Ref.	Designation	Tapping				
674204	Trailer side without test point (yellow)	M 16 x 150				
674205	Trailer side without test point (red)	M 16 x 150				
674206	Trailer side with test point (yellow)	M 16 x 150				
674210	Tractor side without test point (yellow)	M 16 x 150				
674211	Tractor side without test point (red)	M 16 x 150				
674204F	Trailer side with filter without test point (red)	M 16 x 150				
674205F	Trailer side with filter without test point (yellow)	M 16 x 150				
674209J	Trailer side with filter without test point (yellow)	M 16x1,5 - 22x1,5 bulkhead coupling				
674209R	Trailer side with filter without test point (red)	M 16x1,5 - 22x1,5 bulkhead coupling				

GB Seals for trailer side hose couplings	FR Joints pour tête d'accouplement	DE Dichtungen für Kupplungsköpfe (Anhänger Seite)	A  B 
Ref.	Designation		
674213 A	Seal for head without filter		
674214 B	Seal for head with filter		

Air line filters	Filtres de ligne d'air	Leitungsfiler	
Ref.	Tapping		
674212	M 22x1,5 - M 22x1,5		

Operating handles	Poignées de manœuvre	Handgriffe für Kupplungsköpfe	
Ref.	Tapping		
674215	Delivered in kit of 2 (1 red + 1 yellow)		

Tubes

Tubes flexibles

Rohre

GB

**Tubes in synthetic rubber reinforced with an external metallic braid
DIN 73 379 C**

FR

**Tubes flexibles caoutchouc synthétique renforcés d'une tresse métallique extérieure
DIN 73 379 C**

DE

**Synthetische Gummirohre verstärkt mit äusseren Metaltresse
DIN 73 379 C**



Use and operating temperatures:

motor oil, hydraulic fluids of mineral origin + 80°C, diesel + 80°C, fuel EL and L oils + 70°C, oils of plant origin + 80°C, super fuels - kerosene + 80 ° C, + 80 ° C antifreeze, water + 80 ° C, air + 80°C. Stability at low temperatures: until -35 ° C

Ref.	outer Ø in mm	inner Ø in mm	Pressure in bars	Pressure test	limit pressure of no-break	Bending Radius in mm
601302	9,5	4,5	20	30	60	25
601304	10,5	5,5	20	30	60	25
601306	12,5	7,5	15	25	50	30
601308	14	9	15	25	50	40
601310	17,7	11	15	25	50	45
601313	21,2	14	15	25	50	50

**Tubes in synthetic rubber reinforced with an external metallic braid
DIN 73 379 B**

**Tubes flexibles caoutchouc synthétique renforcés d'une tresse textile extérieure
DIN 73 379 B**

**Synthetische Gummirohre verstärkt mit äusseren Textiltresse
DIN 73 379 B**








Flexible tube in black NBR, reinforcement through outer braid


Operating temperature : from - 30°C to + 100°C

Use : diesel - various petroleum products - Oil ...

Ref.	outer Ø in mm	inner Ø in mm	Pressure in bars	limit pressure of no-break	Bending Radius in mm
601500	7	3,2	12	50	20
601502	10,5	5,5	10	42	20
601504	11	6	10	39	20
601506	12,5	7,5	8	32	30
601508	15	9	6	23	40
601510	17,5	11,5	5	20	40

 Tubes for gasoline DIN 73 379 E		 Tubes flexibles pour essence sans plomb DIN 73 379 E		 Rohre für bleifrei Benzin DIN 73 379 E		
Inner tube in NBR black Reinforcement : textile woof, outer skin in black CSM Operating temperature: - 40°C to + 125°C (peak at 140°C)						
Ref.	outer Ø in mm	inner Ø in mm	Pressure in bars	limit pressure of no-break	Bending Radius in mm	
601705	11	5	12	40	60	
601706	12	6	12	40	72	
601708	14	8	12	40	96	
601710	15,5	9,5	12	40	114	
601712	19	12	12	40	144	

Tubes reinforced with an internal OLN type textil braid		Tubes flexibles renforcés d'une tresse textile intérieure type OLN		Rohre verstärkt mit inneren Textiltresse OLN-artig		
Resistant to ozone and ultraviolet. Operating temperature : - 40°C to + 100°C Use : for motors oil - hydraulic oils- antigel - diesel - fuel oil						
Ref.	outer Ø in mm	inner Ø in mm	Pressure in bars	limit pressure of no-break	Bending Radius in mm	
602002N	10	4	25	75	30	
602004N	12	6	25	75	35	
602006N	14	8	25	75	40	
602008N	16	9,5	25	75	45	
602010N	19,4	11,5	25	75	50	
602013N	22	13	20	70	55	
602016N	25	16	20	70	60	


Inflation hoses		Tubes de gonflage		Aufblasenrohre		
In black SBR / NR antistatic 100M ohm with textile inner braid reinforcement. Outer in NBR/PVC blue temperature: - 20°C to + 80°C						
Ref.	outer Ø in mm	inner Ø in mm	Pressure in bars	limit pressure of no-break	Bending Radius in mm	
680100	13	6	20	60	35	
680102	15	8	20	60	45	
680109	16	9	20	60	50	
680010*	18	10	20	65	80	
680014**	18	11	20	60	70	
680112	20	12	20	60	60	
680011**	25	13	20	60	100	

* Approved UTAC **Approved DIN



GB Hoses in polytetra-fluorethylene	FR Flexibles en polytetra-fluoréthylène	DE Schlauche aus Polytetra-fluorethylene
<p>Flexible POLYTETRA - (PTFE-PFA-TFA) convoluted</p> <p>Special manufacture corrugated and not spiraled for an exceptional flexibility.</p> <p>Type reinforced by fiberglass. Stainless steel outer braid with hydraulic quality.</p> <p>Resistance to temperature from - 70° C to + 260° C.</p> <p>Do not twist the tube and observe the minimum bend radius specified.</p> <p>If the hose must convey steam Maximum allowable pressure: 14 bars at +200° C</p> <p>Crimping hoses convoluted Teflon requires the use of special rings and crimping components, different from those commonly used in hydraulics. Therefore, our warranty does not apply for the use of components from other sources.</p> <p>Cut of the tube</p> <p>As a precaution, «tape» the tube with a roll of transparent adhesive cloth, cut the middle with a toothless disk or with cutting pliers. Do not remove the adhesive tape to avoid the stainless steel braid going off.</p> <p>In addition to their exceptional resistance to high temperatures (+260° C), PTFE hoses differ from the others thanks to a remarkable resistance to most diverse and more aggressive chemicals (steam, solvents, oils, hydrocarbons, acids and bases).</p>	<p>Flexible en polytetra - fluoréthylène (PTFE-PFA-TFA) convoluté</p> <p>Fabrication spéciale annelée et non spiralisée pour une exceptionnelle souplesse.</p> <p>Type renforcé par fibre de verre. Tresse extérieure en inox de qualité hydraulique.</p> <p>Résistance à la température de - 70° C à + 260° C.</p> <p>Ne pas vriller le tube et respecter les rayons de courbure minima indiqués.</p> <p>Si le flexible doit véhiculer de la vapeur Pression maximum admissible : 14 bars à + 200° C</p> <p>Le sertissage des flexibles en téflon convoluté nécessite l'utilisation de bagues et de composants de sertissage spéciaux différents de ceux couramment utilisés en hydraulique. Notre garantie ne saurait donc s'appliquer en cas d'utilisation de composants d'autres provenances.</p> <p>Coupe du flexible</p> <p>Prendre la précaution de "scotcher" le tube avec un rouleau d'adhésif non toilé, couper au milieu avec un disque sans dents ou à défaut avec une pince coupante. Ne pas enlever le papier adhésif pour éviter que la tresse en inox ne se défasse.</p> <p>Outre leur exceptionnelle tenue aux hautes températures (+ 260° C), les flexibles en PTFE se distinguent par une résistance remarquable aux produits chimiques les plus divers et les plus agressifs (vapeur, solvants, huiles, hydrocarbures, acides et bases).</p>	<p>Polytetrafluorethylen Schlauch - (PTFE-PFA-TFA) gewelltet</p> <p>Gewellte Sonderanfertigung, nicht spiralgig, für eine außergewöhnliche Flexibilität.</p> <p>Modell verstärkt durch Fiberglas. Edelstahl Umflechtung von hydraulischer Qualität.</p> <p>Temperaturbeständigkeit von - 70° C bis + 260° C.</p> <p>Bitte verdrehen Sie das Rohr nicht und beachten Sie die minimalen angegebenen Biegeradien.</p> <p>Wenn der Schlauch Dampf vermitteln muss ist der maximal zulässige Druck von 14 Bar bei +200° C</p> <p>Die Einfassung von Schläuchen aus eingerolltem Teflon erfordert die Verwendung von Ringen und spezielle Fassen Komponenten, die sich unterscheiden von denen, die gemeinhin in der Hydraulik eingesetzt werden. Unsere Garantie erstreckt sich daher nicht bei der Verwendung von Komponenten aus anderen Quellen.</p> <p>Schnitt des Schlauches</p> <p>Kleben Sie sicherheitshalber das Rohr mit einem durchsichtigen Klebeband, schneiden Sie in der Mitte mit einer Scheibe ohne Zähne oder alternativ mit einem Seitenschneider. Entfernen Sie das Klebeband nicht, um zu verhindern, dass das Abschirmgeflecht aus Edelstahl sich herauslöst.</p> <p>Neben ihrer außergewöhnlichen Beständigkeit gegen hohe Temperaturen (+260° C), unterscheiden sich PTFE-Schläuche durch eine bemerkenswerte Resistenz gegenüber den verschiedensten und aggressivsten Chemikalien (Dampf, Lösungsmittel, Öle, Kohlenwasserstoffe, Säuren und Basen).</p>

Ref.	outer Ø in mm	inner Ø in mm	Pressure in bars	limit pressure of no-break in bars	Radius of curvature in mm	Space	Weight in grams
616000	22	15,5	55	220	60	55 m bars absolu	330
* Pressure correction factor depending on temperature							
24° C	100° C	150° C	200° C				
1	0,95	0,9	0,83				

GB Crimping ferrules for 616000	FR Jupes à sertir pour 616000	DE Pressfassungen für 616000	
Ref.	outer Ø in mm		
616100	27		

Cab blow
guns Kit
in polyurethane

Kit soufflettes
de cabine
en polyuréthane

Fahrerhausluft-
düseset
aus Polyurethan

GB

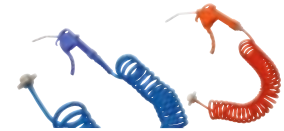
Kits to connect to
IVECO test point

FR

Kits à raccorder
sur prise de pression
IVECO

DE

Ausblaseset
für IVECO
Prüfventil

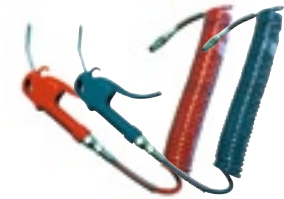


Ref.	Designation	Length	Color
678000		4 m	Red
678000B		4 m	Blue

Kits to connect to
RVI test point

Kits à raccorder
sur prise de pression
RVI

Ausblaseset
für RVI
Prüfventil



Ref.	Designation	Length	Color
679000		2,80 m	Red
679000B		2,80 m	Blue

Kits to connect to
MERCEDES test point

Kits à raccorder
sur prise de pression
MERCEDES

Ausblaseset
für MERCEDES
Prüfventil



Ref.	Designation	Length	Color
679001		2,80 m	Red
679001B		2,80 m	Blue





Kits to connect to
SCANIA test point


Kits à raccorder
sur prise de pression
SCANIA


Ausblaseset
für SCANIA Prüfventil








Ref.	Designation	Length	Color
677000		2,80 m	Red
677000B		2,80 m	Blue


 Universal kits with coupling devices		 Kits universels avec coupleurs		 Ausblasesets Standard		
Ref.	Length	Color				
678050B	8,00 m	Blue				
678050	8,00 m	Red				
678050M	3,60 m	Red				
678050MB	3,60 m	Blue				
<ul style="list-style-type: none"> - Length of 8 m or 3,6 m - Equipped with couplers. - Delivered with the necessary connection (T6). - This kit is the most complete of the range. 						


Installation kits for DIN.B inflation connection		Kits d'installation pour prise de gonflage DIN. B		Montage Kits DIN. B		
Ref.	Designation					
247951	Snap tee					

T-coupling with coupling devices for kits 678050 (B,M et MB)		Té avec coupleur pour kits : 678050 (B,M et MB)		T-Schottstutzen für Sets: 678050 (B,M und MB)		
Ref.						
248050T						

Polyurethane coils		Serpentins polyurethane		Polyurethan Spiralschlauche		
Ref.	Ø Tube	Length	Ø spires in mm	Color		
677011	6-4	3,6 m	42	Red		
677031	6-4	8 m	42	Blue		

 Nozzles for pre-equipped vehicles (RVI-MERCEDES)		 Embouts pour véhicules pré-équipés (RVI-MERCEDES)		 Stecknipel für serienmäßig ausgestattete Fahrzeuge (RVI-MERCEDES)		
Ref.	Ø Tube	Designation				
301108	6/4	Mercedes				
301109	6/4	RVI				

Nipples for coil pipes and tubes		Embouts pour serpentins et tubes		Stutzen für Spiralschlauch und Rohre		
Ref.	Ø Tube	Thread				
677051	8/6	G1/4"				
677053	6/4	G1/4"				
677054	10/6,5	G1/4"				
677055	10/8	G1/4"				

Air guns		Soufflettes de cabine		Luft Pistole		
Ref.	Tapping	Color				
678005	G1/4"	Red				
678006	G1/4"	Blue				

Clamping collars

Colliers de fixation

Schlauchschellen







GB Metallic clamps light range	FR Colliers de serrage métalliques Gamme légère à vis sans fin	DE Metallische Klemmschelle Leichte Version
Standard clamps 9mm • One piece housing without any welding nor riveting, blue painted • full band with raised edges in steel «Aluzink» • profile rack designed to withstand vibrations and high screw torques.	Colliers standard 9mm • carter embouti d'une pièce sans soudure ni rivetage, laqué Bleu • bande pleine à bords relevés en acier "Aluzink" • profil de crémaillère conçu pour résister aux vibrations et aux couples de serrage élevés.	Standard Rohrschelle 9mm • Einteiliges Gehäuse ohne Schweißen weder Nieten, blau lackiert • Volles Band mit erhöhten Rändern in Stahl «Aluzink» • Profil-Rack hergestellt um Vibrationen und hohe Drehmoment auszuhalten.
Ref.	Clamping Ø	Width in mm
310520	8 - 12	9
310530	10 - 16	9
310540	12 - 20	9
310542	16 - 25	9
310543	20 - 32	9
310545	25 - 40	9
310546	32 - 50	9
310547	40 - 60	9
310548	50 - 70	9




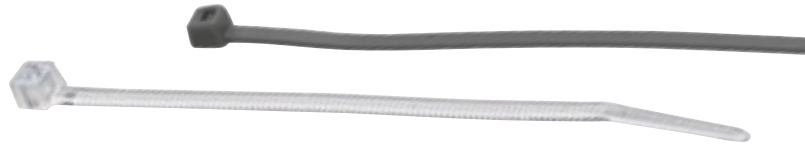
GB Heavy range worm screws	FR Gamme lourde à vis sans fin	DE Starke Schellen
Clamps for severe use (trucks, public works, industry, etc.) <ul style="list-style-type: none"> • band full of 12 mm steel «Aluzink» with raised edges. • cover embossed blue lacquered • Standard dimensions according to DIN norm. 	Colliers pour des utilisations sévères (poids-lourds, TP, industrie, etc.) <ul style="list-style-type: none"> • bande pleine de 12 mm en acier «Aluzink» à bords relevés. • carter embouti laqué Bleu • dimensions selon norme DIN. 	Rohrschelle für den schwereren Einsatz (LKW, Tiefbau, Industrie, etc..) <ul style="list-style-type: none"> • Volles Band von 12 mm aus Stahl «Aluzink» mit erhöhten Rändern. • Blaue Abdeckung geprägt lackiert • Abmessungen nach DIN- Norm.
Ref.	Clamping Ø	Width in mm
31056212	16 - 25	12
31056312	20 - 32	12
31056512	25 - 40	12
31056612	32-50	12
31056812	40-60	12
31056912	50-70	12
31057012	60-80	12
31057112	70-90	12
31057212	80-100	12
31057312	90-110	12
31057412	100-120	12



(GB) Reinforced range worm screws	(FR) Gamme renforcée à vis sans fin	(DE) Verstärkte Schellen
Clamps 13mm full band for severe use (trucks, public works, industry, etc..) when large clamping forces are required. • strip and steel cover galvanized DIN 1.0935, • galvanized steel screws DIN 1.0213	Colliers bande pleine de 13 mm pour des utilisations sévères (poids-lourds, TP, industrie, etc.) lorsque des forces de serrage importantes sont nécessaires. • bande et capot en acier galvanisé DIN 1.0935, • vis acier zingué DIN 1.0213	Rohrschelle volles Band von 13 mm für den schwereren Einsatz (LKW, Tiefbau, Industrie, etc..), wenn große Spannkkräfte benötigt sind. • Streifen und Stahlabdeckung verzinkt DIN 1,0935, • verzinkte Schraubs DIN 1.0213
Ref.	Clamping Ø	Width in mm
311153	20-32	13
311155	25-40	13
311156	32-50	13
311157	40-60	13
311158	50-70	13
311159	60-80	13
311160	70-90	13
311161	80-100	13
311162	90-110	13
311170	100-120	13
311171	110-130	13
311172	120-140	13
311173	130-150	13
311174	140-160	13
311175	150-170	13
311176	160-180	13
311177	170-190	13
311178	180-200	13
311179	190-210	13
311180	200-220	13
311181	210-230	13
311182	220-240	13

 High pressure range		 Gamme forte pression		 Hochdruck Produktpalette		
Ref.	Clamping Ø	Width in mm				
311700	17-19	18				
311701	19-21	18				
311702	21-23	18				
311703	23-25	18				
311704	25-27	18				
311705	27-29	18				
311706	29-31	20				
311707	31-34	20				
311708	34-37	20				
311709	37-40	20				
311710	40-43	20				
311711	43-47	20				
311712	47-51	20				
311713	51-55	20				
311714	55-59	20				
311715	59-63	20				
311716	63-68	20				
311741	68-73	25				
311742	73-79	25				
311743	79-85	25				
311744	85-91	25				
311745	91-97	25				
311746	97-104	25				
311747	104-112	25				
311748	112-121	25				
311749	121-130	28				
311777	130-140	28				
311778	140-150	28				
311779	150-162	28				
311780	162-174	28				
311781	174-187	28				
311782	187-200	28				
311783	200-213	28				
311784	213-226	28				
311785	226-239	28				
311786	239-252	28				

Flexible hexagonal screwdrivers		Tournevis hexagonal flexible		Flexibel sechseckiger Schraubendreher		
Ref.	For head of					
311788	7					



(GB) Clamps in polyamide 6.6 Standard range			(FR) Colliers de serrage en polyamide 6.6 Gamme standard		(DE) Kabelbinder aus Polyamid 6.6 Standardproduktpalette
International standard range • In polyamide 6.6 self-extinguishing Class UL94V-2 • tensile resistance measured according to specification Mil-S-23190E • excellent resistance to hydrocarbons, salts, sludges and diluted acids • operating range : from -35° C to + 85° C			Gamme internationale standard • en polyamide 6.6 auto extinguable classe UL94V-2 • résistance à la traction mesurée selon la spécification Mil-S-23190E • excellente résistance aux hydrocarbures, aux sels, boues et acides dilués • plage d'utilisation : de -35° C à + 85° C		Internationale Standard Produktpalette • Aus Polyamid 6.6 UL94V-2 Klasse • Zugfestigkeit gemessen gemäß Spezifikation Mil-S-23190E • ausgezeichnete Beständigkeit gegen Kohlenwasserstoffe, Salze, Säuren und Schlamm verdünnt • Verwendungsbereich : von -35° C bis + 85° C
Ref.	Length in mm	Width in mm	min. resistance in kg	max. clamping Ø	Color
311400	98	2,5	8	20	white
311401	140	3,6	18	32	white
311402	200	4,8	22	47	white
311403	290	4,8	22	77	white
311404	365	7,5	55	102	white
311405	240	7,8	55	65	white
311406	200	2,6	8	50	white
311407	200	3,6	18	50	white
311408	290	3,6	18	77	white
311409	390	4,8	22	105	white
311410	300	7,8	55	77	white
311411	750	7,8	55	225	white
311424	225	12,6	57	110	white
311412	98	2,5	8	20	black
311413	200	2,6	8	50	black
311414	140	3,6	18	32	black
311415	200	3,6	18	50	black
311416	290	3,6	18	77	black
311417	178	4,8	22	47	black
311418	290	4,8	22	77	black
311419	390	4,8	22	105	black
311420	240	7,8	55	65	black
311421	300	7,8	55	77	black
311422	365	7,5	55	102	black
311423	750	7,8	55	220	black
311425	180	7,6	55	50	black
311426	540	7,8	55	152	black
311428	200	4,8	22	50	black



GB Flat heads in polyamide 6.6 range	FR Gamme à tête plate en polyamide 6.6	DE Polyamid 6.6 Kabelbinder			
<ul style="list-style-type: none"> • In polyamide 6.6 self-extinguishing Class UL94V-2 	<ul style="list-style-type: none"> • en polyamide 6.6 auto extinguable classe UL94V-2 	<ul style="list-style-type: none"> • Aus Polyamid 6.6 UL94V-2 Klasse 			
Ref.	Length in mm	Width in mm	min. resistance in kg	max. clamping Ø	Color
311912	200	9	35 single heads	45	black
311913	285	9	35 single heads	65	black
311914	375	9	51 double heads	97	black
311915	530	9	55 reinforced double heads	140	black
311926	780	9	55 reinforced double heads	230	black



Flat heads in polyamide 12	Gamme à tête plate en polyamide 12	Polyamid 12 Kabelbinder			
polyamide 12 complying with EDF-HN33S62 norm <ul style="list-style-type: none"> • excellent resistance to low temperatures and U.V. • shelf life by bad weather: 12 to 15 years against 1 to 2 for natural polyamide-6.6 	Polyamide 12 conforme à la norme EDF-HN33S62 <ul style="list-style-type: none"> • excellente résistance aux basses températures et aux U.V. • durée de vie aux intempéries : 12 à 15 ans contre 1 à 2 pour le polyamide-6.6 naturel 	Polyamid 12 Normkonform EDF-HN33S62 <ul style="list-style-type: none"> • ausgezeichnete Beständigkeit gegen niedrigen Temperaturen und U.V. • Lebensdauer bei Unwetter: 12 bis 15 Jahre gegen 1 bis 2 für natürliches -6.6 Polyamid 			
Ref.	Length in mm	Width in mm	min. resistance in kg	max. clamping Ø	Color
311600	115	6	25 single heads	25	black
311601	180	6	25 single heads	45	black
311901	300	9	51 double heads	79	black
311903	265	9	51 single heads	65	black
311904	360	9	51 double heads	93	black
311905	510	9	55 reinforced double heads	140	black
311906	760	9	55 double heads	220	black





Swivel to screw on
Embase à visser
Sockel für Kabelbinder



Ref.	Designation
311650	For screw Ø 5 for clamp width 9 mm maximum





Seal rings


Joints

Dichtringe

 Metal-plastic sealed joints DIN 7603		 Joints métallo-plastique fermés DIN 7603		 Metal-plastikdichtringe DIN 7603			
Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions
100302	6,2 x 10 x 1,5	100309	12 x 16 x 2	100317	16,3 x 22 x 2	100330	24,4 x 32 x 2,5
100305	8,2 x 12 x 1,5	100310	12,3 x 18 x 2	100320	18,3 x 24 x 2	100331	26,4 x 32 x 2,5
100306	8,2 x 14 x 1,5	100313	14,3 x 20 x 2	100324	20,4 x 26 x 2		
100308	10 x 16 x 1,5	100316	16,3 x 20 x 2	100327	22,4 x 29 x 2		

Brass joints DIN 7603		Joints cuivre DIN 7603		Kupfer Dichtringe DIN 7603			
Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions
100501	4 x 8 x 1	100548	12 x 16 x 1,5	100588	16 x 22 x 1,5	100631	22 x 29 x 1,5
100504	5 x 11 x 1	100551	12 x 17 x 1,5	100591	17 x 21 x 1,5	100641	24 x 29 x 2
100505	6 x 10 x 1	100554	12 x 18 x 1,5	100593	17 x 23 x 1,5	100643	24 x 30 x 2
100506	6 x 12 x 1	100555	12 x 18 x 2	100597	18 x 22 x 1,5	100644	24 x 32 x 2
100514	8 x 12 x 1	100562	13 x 18 x 1	100601	18 x 24 x 1,5	100651	26 x 32 x 2
100517	8 x 14 x 1	100563	13 x 18 x 1,5	100602	18 x 24 x 2	100652	26 x 34 x 2
100518	8 x 14 x 1,5	100564	13 x 18 x 2	100610	20 x 26 x 1,5	100656	27 x 32 x 2
100531	10 x 14 x 1	100568	14 x 18 x 1,5	100611	20 x 26 x 2	100658	28,4 x 34 x 2
100533	10 x 14 x 2	100572	14 x 20 x 1,5	100616	21 x 26 x 1,5	100659	28 x 36 x 1,5
100536	10 x 16 x 1	100573	14 x 20 x 2	100619	21 x 27 x 1,5	100662	30 x 36 x 2
100537	10 x 16 x 1,5	100574	14 x 21 x 1,5	100621	21 x 28 x 1,5	100664	32 x 38 x 2
100541	10 x 18 x 1,5	100580	15 x 20 x 1,5	100627	22 x 27 x 1,5	100671	34 x 40 x 2
100543	10 x 19 x 2	100585	16 x 20 x 1,5	100628	22 x 27 x 2	100672	35 x 41 x 2
100547	12 x 16 x 1	100587	16 x 22 x 1	100629	22 x 28 x 1,5	100673	36 x 42 x 2


 DIN-norm o-rings 3771		 Joints toriques norme DIN 3771		 DIN-Norm O-Ringe 3771			
Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions
415051	10 x 14	415057	18 x 22	415063	24 x 30	415069	32 x 38
415052	12 x 16	415058	18 x 24	415064	25 x 29	415070	34 x 40
415053	14 x 18	415059	20 x 24	415065	25 x 31	415071	36 x 42
415054	15 x 19	415060	20 x 26	415066	28 x 32	415072	38 x 44
415055	16 x 20	415061	22 x 26	415067	28 x 34	415073	40 x 44
415056	17 x 21	415062	24 x 28	415068	30 x 36	415074	40 x 46

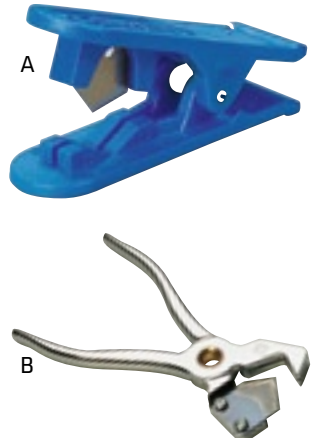
Bonded Seal rings		Bagues BS		BS Dichtringe			
Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions	Ref.	Dimensions
431352	6,7 x 11 x 1-M6	431367	14,7 x 22,00 x 1,5-M14	431375	21,54 x 28,58 x 2,49 (1/2")	431375	21,54 x 28,58 x 2,49 (1/2")
431356	8,7 x 14 x 1-M8	431369	16,7 x 24,00 x 1,5-M16	431376	22,70 x 30 x 2-M22	431376	22,70 x 30 x 2-M22
431361	10,7 x 16 x 1,5-M10- (1/8")	431370	17,28 x 23,8 x 2,03- (3/8")	431377	24,7 x 32 x 2 M24	431377	24,7 x 32 x 2 M24
431365	12,7 x 18 x 1,5-M12	431372	18,7 x 26x 1,5-M18	431379	27,05 x 34,93 x 2,49-R3/4" M26	431379	27,05 x 34,93 x 2,49-R3/4" M26
431366	13,74 x 20,57 x 2,03 (1/4")	431374	20,7 x 28 x 1,5-R M20	431383	33,7 x 42x2-M33- (1")	431383	33,7 x 42x2-M33- (1")


Tools




Outils


Werkzeuge

GB	FR	DE	
Circlips pliers	Pinces à circlips	Circlips Zangen	
Ref.	Designation		
892000	90° angled plier for outer circlips		
892001	Straight plier for outer circlips		

Pliers to cut polyamide tubes	Pinces à couper les tubes polyamide	Polyamid Rohr abschneider	
Ref.	Designation		
209010 (A)	Workshop clamp for polyamide		
209013 (B)	Pocket plier for polyamide		
209028	Spare blade for 209013		

Mounting-vice pliers for polyamide	Pinces-étau de montage pour polyamide	Zangen für Polyamid Montage	
Ref.	Ø		
209011	6, 8, 10, 11		
209012	7, 9, 12		
209014	14, 15, 16		





GB Pliers for polyamide clamps	FR Pinces pour colliers polyamide	DE Zange für Polyamid Kabelbinder
Ref.	Designation	
311048	For 2,2 to 4,8 mm width collars.	
311059	For 5 to 9 mm collars. Separated cutting lever.	
311060	For 7,8 to 13 mm collars. Automatic cut.	


Workshop crimping press	Presse à sertir d'atelier	Eingassungspresse	
Ref.			
209003	Capacity of 10 to 30 mm Six teeth crimping Material suitable for economical production in large and small series. All major mechanical components of this tool have been strengthened to resist against wear.		


Miscellaneous


Divers


Sonstiges


 End fittings with wingnut for test connector opening		 Embouts avec écrou à oreilles pour ouverture prise test		 Flügelmutter für Prüfanschlüsse		
Ref.	Ø Tube	Tapping				
301105	5	16 x 1,5				
301101	6	16 x 1,5				
301102	8	16 x 1,5				


Inflation couplings		Raccords de gonflage		Aufblasens- Stecknippel		
Ref.	Ø Tube					
301098	6					
301097	8					



A-Form test points DIN 74326 P.R		Prises de pression forme A DIN 74326 P.R		A-Form Prüfanschlüsse A-Form DIN 74326 P.R		
Ref.	Tapping					
300801	14 x 150					
821001	16 x 150					
300803	18 x 150					
821002	22 x 150					
821003	16x1,00 Special for RVI					



B-Form male screw DIN 74326 P.R patterns		Modèles à filetage mâle forme B DIN 74326 P.R		B-Form mit Außengewinde DIN 74326 P.R		
Ref.	Designation					
301110	Extension for valve					
821011	1/8»					

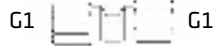

(GB)	(FR)	(DE)	
Drain-cocks	Purgeurs	Entwässerungs-anschlüsse	
Ref.	Thread		
300860	22 x 1,5		
300860J	22x1,5 with seal and bowl		
399860	G1/2"		

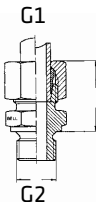

Plastic release tool kit (Content 8 parts)	Kit outils de démontage en plastique (Contenu 8 pièces)	Kunststoff Demontage Werkzeug Kit (Inhalt: 8 Stück)	
Ref.	Ø		
26000962	6-8-10-12		

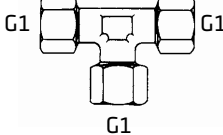

Aluminium release tool kit (Content 8 parts)	Kit outils de démontage en alu (Contenu 8 pièces)	Aluminium Demontage Werkzeug Kit (Inhalt: 8 Stück)	
Ref.	Ø		
26000963	6-8-10-12		



G1  G1	Tube connectors LL serie	Unions doubles série LL	Rohr Verbinder LL Serie	
Ref.	Ø G1			
860276	4			
860278	5			
860221	6			
860222	8			
860223	10			
860224	12			
307114	14			
307116	16			
307118	18			

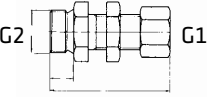

	(GB)	(FR)	(DE)	
	Tube connectors L serie	Unions doubles série L	Rohr Verbinder L Serie	
Ref.	Ø G1			
860201	6			
860202	8			
304132	9			
860203	10			
304133	11			
860204	12			
860205	15			
860286	16			
860206	18			

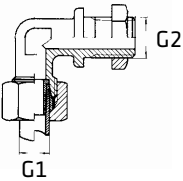

	Tube connectors american standards	Unions doubles normes américaines	Rohr Verbinder amerikanische Norm	
Ref.	Ø G1			
393999	3/16" - 4,76			
394000	1/4" - 6,35			

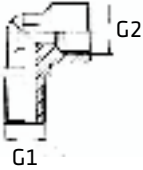

	Push-in couplings L serie	Unions mâles série L	Gerade Steckverbinder L Serie	
Ref.	Ø G1	Thread G2		
870344	6	M 16 x 1,5		
870348	8	M 16 x 1,5		
870356	10	M 16 x 1,5		
870304	12	M 16 x 1,5		
870257	12	1/2		

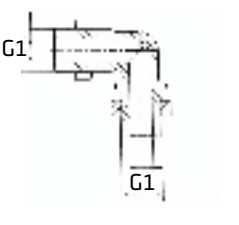

	Equal T-couplings LL serie	Tés égaux série LL	Gleichmäßige T-Verschraubung LL Serie	
Ref.	Ø G1			
860476	4			
860478	5			

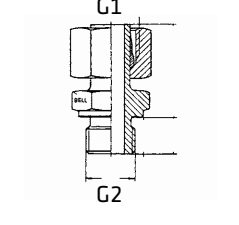

	GB Straight equal bulkhead couplings L Serie	FR Passe-cloisons égaux droits série L	DE Gerade Schottstutzen L Serie	
Ref.	Ø G1			
860601	6			
860602	8			
860603	10			
860604	12			
860605	15			
860621	16			
860606	18			

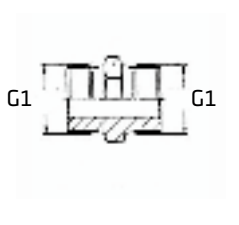

	Straight special bulkhead push-in couplings	Passe-cloisons spéciaux mâles droits	Gerade sonder-Steckschottstutzen	
Ref.	Ø G1	G2		
860725	12	16 x 1,5		
860726	12	22 x 1,5		



	Special elbowed bulkhead couplings	Passe-cloisons spéciaux coudés	Sonder Winkel-schottstutzen	
Ref.	Ø G1	G2		
860979	12	16 x 1,5		

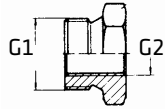




	Special elbowed bulkhead couplings	Passe-cloisons spéciaux coudés	Sonder Winkel-schottstutzen	
Ref.	Thread G1	Tapping G2		
860964	16 x 1,5	16 x 1,5		
860965	22 x 1,5	22 x 1,5		

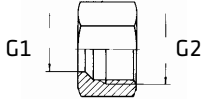

	GB	FR	DE	
	Special elbowed bulkhead couplings	Passe-cloisons spéciaux coudés	Sonder Winkel-schottstutzen	
Ref.	G1			
300432	M 22 x 1,5			

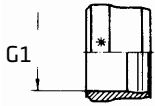

	Male swiveling hose adapters LL Serie	Adaptateur mâle orientable série LL	Steckverbinder mit Anschluß LL Serie	
Ref.	Ø G1	G2		
317086	12	M 16 x 1,00		

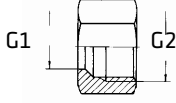

	Nipples	Mamelons	Nippel	
Ref.	G1			
820313	M 22x1,5 FLAT BOTTOMS			
820356	M 16x1,5 FLAT BOTTOMS			

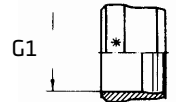

	Socket joints	Manchons	Gewindemuffe	
Ref.	G1			
99243	M 22 x 1,5 - M 16 x 1,5			
99245	M 22 x 1,5 - G 3/8"			
821031	M 22 x 1,5			
821033	M 16 x 1,5			

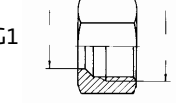

		 Male/female reductions	 Réductions mâle/ femelle	 Reduzierstretzen	
Ref.	Ø G1	G2			
99231	M 16 x 1,5	M 22 x 1,5			
99237	G3/8"	M 22 x 1,5			
821046	M 22 x 1,5	M 16 x 1,5			
821048	M 22 x 1,5	G1/4"			
821049	M 22 x 1,5	G3/8"			
821050	M 22 x 1,5	G1/2"			
821053	M 26 x 1,5	M 22 x 1,5			
823504	M 18 x 1,5	M 16 x 1,5			
823520	M 16 x 1,5	M 22 x 1,5			
999952	M 16 x 1,5	G3/8"			
999953	G3/8"	M 16 x 1,5			
999955	M 16 x 1,5	G1/2"			
999956	G1/2"	M 22 x 1,5			


		Nuts french thin serie	Ecrous série fine française	Überwurfmutter	
Ref.	G1	G2			
318104	4	M 8 x 1			
318106	6	M 10 x 1			
318108	8	M 12 x 1			
318110	10	M 14 x 1			
318112	12	M 16 x 1			
318114	14	M 18 x 1			
318116	16	M 22 x 1			
318118	18	M 24 x 1			

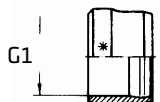

		Cutting rings french thin serie	Bagues coupantes série fine française	Schneidringe französische dünne Serie	
Ref.	Ø G1				
318204	4				
318206	6				
318208	8				
318210	10				
318212	12				
318214	14				
318216	16				
318218	18				
318220	20				


	(GB)	(FR)	(DE)	
	Nuts LL serie	Ecrous série LL	Schraubenmutter LL Serie	
Ref.	Ø G1	G2		
850176	4	M 8 x 1		
850178	5	M 10 x 1		
850121	6	M 10 x 1		
850122	8	M 12 x 1		
850123	10	M 14 x 1		
850124	12	M 16 x 1		



				
Ref.	Ø G1			
850276	4			
850278	5			
850221	6			
850222	8			
850223	10			
850224	12			



				
Ref.	Ø G1	G2		
850101	6	M 12 x 1,5		
850102	8	M 14 x 1,5		
850103	10	M 16 x 1,5		
850104	12	M 18 x 1,5		
850105	15	M 22 x 1,5		
850125	16	M 22 x 1,5		
850106	18	M 26 x 1,5		



	(GB)	(FR)	(DE)	
	Cutting rings L serie	Bagues coupantes série L	Schneidringe L Serie	
Ref.	Ø G1			
850301	6			
850302	8			
850303	10			
850304	12			
850305	15			
850325	16			
850306	18			

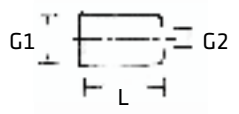

	(GB)	(FR)	(DE)	
Ref.	Ø G1			
850315	14			
850316	16			

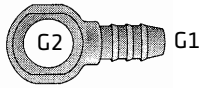
Reinforcement sockets for flexible and semi-rigid tubes	Douilles de renfort pour tubes souples et semi-rigides	Verstärkungshülsen für Polyamid Rohr	
Ref.	For tube inner Ø in mm	Tube Ø	
244127	2	4 x 1 (2x4)	
244140	3	6 x 1,5 (3x6)	
244120	4	6 x 1 (4x6)	
244141	5	8 x 1,5 (5x8)	
244121	6	8 x 1 (6x8)	
244142	7	10 x 1,5 (7x10)	
244176	7,5	7,5 x 10 (7,5x10)	
244122	8	10 x 1 (8x10)	
244143	9	12 x 1,5 (9x12)	
244123	10	12 x 1 (10x12)	
244144	12	15 x 1,5 (12x15)	
244166	14	18 x 2 (14x18)	
244150	15	18 x 1,5 (15x18)	
244170	4,31	6,35 (1/4")	
244171	6,35	9,52 (3/8")	
244172	9,52	12,7 (1/2")	
244173	11,2	15,88 (5/8")	

	(GB)	(FR)	(DE)	
	End fittings for brake hoses	Embouts pour flexible de frein	Schlauchstützen für Bremschlauch	
Ref.	Designation	Tube G1	Smooth tail Ø G2	
203313	Smooth tail crimp	10 x 18	12	
300725	Smooth tail crimp	11 x 18	12	
18128	Smooth tail crimp	13 x 25	12	

	End fittings for brake hoses	Embouts pour flexible de frein	Schlauchstützen für Bremschlauch	
Ref.	Designation	G1	G2	
203272	male nozzle, fine serie	10 x 18	M 16 x 1,00 cône 24°	
300702	flat-bottomed male nozzle	13 x 25	M 22 x 1,5	

	End fittings for brake hoses	Embouts pour flexible de frein	Schlauchstützen für Bremschlauch	
Ref.	Designation	G1	G2	
203998	Ball coupling with nut	10 x 18	M 18 x 1,5 cône 24° OU 60°	

	Crimp sockets	Douilles de sertissage	Fassenhülsen	
Ref.	Ø G1	Ø G2	L	
204010	10,5	6,2	15	
204011	11,5	7,3	15	
204012	12,5	7,3	20	
204013	13,5	9,3	20	
204014	14,5	9,3	20	
204015	15,5	11,3	20	
204016	16	11,3	20	
204017	17	11,3	21	
204018	18	13,4	21	
204019	19,5	13,4	21	
204020	20	13,4	20	
204022	22	16,9	31	
204023	23	16,9	32	
204024	24,5	16,9	32	
204026	26,5	16,9	32	
204028	28	19,5	32	
204030	30	23,7	32	
Socket for 680010 (10X18)				
204050	19,5	14	32	



GB

**Banjo Screws
for polyamide tube**

FR

**Banjos pour tube
polyamide**

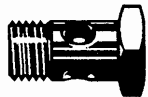
DE

**Ringnippel für
Polyamid Rohr**



Ref.	Ø G1	Eye Ø G2
205525	4	6
205509	4	8
205513	5	8
205518	6	12
205504	8	12
205517	5	13
205503	4	14
205512	6	14
205506	8	14
205514	10	14
205500	9	16

G1



**Simple cored
screws**

**Vis creuses
simples**

**Einfache
Hohlschrauben**



Ref.	G1	Eye Ø
205001	M 6 x 1	6
205002	M 8 x 1	8
205003	M 8 x 1,25	8
205004	M 10 x 1	10
205005	M 10 x 1,50	10
205006	M 12 x 1,50	12
205008	M 14 x 1,50	14
205009	M 12 x 1,25	12
205010	M 16 x 1,50	16
205013	M 18 x 1,50	18

G1



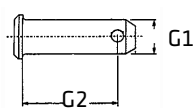
**Standardized
yokes**

**Chape
normalisée**

**Rundloch-
gabelgelenke**



Ref.	Ø G1	Tapping G2
222234	14	16 x 150



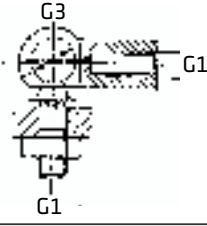




Yoke shafts

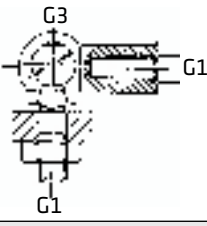

Axes de chape

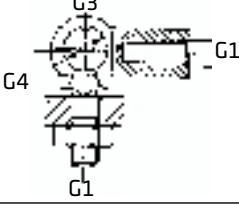

**Gabelgelenk-
bolzen**

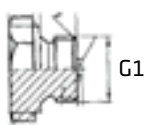



Ref.	Ø G1	length under head G2
222414	14	31,2
222434	14	40
222435	14	35

	 Ball and socket joints DIN 71 802	 Rotules DIN 71 802	 Winkelgelenke Standard DIN 71 802	
Threaded plug-in AS Type, hex nut and safety ring.				
Ref.	Thread / Tapping G1	Ball head Ø G3		
220125	M 5 x 0,8	8		
220126	M 6 x 1	10		
220128	M 8 x 1,25	13		
220130	M 10 x 1,5	16		
220132	M 12 x 1,75	18		
220134	M 14 x 1,5	19		
220135	M 14 x 2	19		

	Reversed thread lead ball and socket joints	Rotules pas à gauche	Winkelgelenke Linksgewinde	
Ref.	Thread / Tapping G1	Ball head Ø G3		
220225	M 5 x 8	8		
220226	M 6 x 1	10		
220228	M 8 x 1,25	13		
220230	M 10 x 1,50	16		

	Ball and socket joints - special patterns	Rotules modèles spéciaux	Winkelgelende Sonderausführung	
Ref.	Thread / Tapping G1	Ball head Ø	Length	Application
220152	M 6 x 1	10	33	81953010001 (Man)
220157	M 8 x 1,25	13	45	0004310667 (Mercedes)

	Plugs with 6 external cap nuts	Bouchons à 6 pans extérieurs	Verschlussmutter	
Ref.	Thread G1			
223008	M 8 x 1			
223010	M 10 x 1			
223012	M 12 x 1,50			
223014	M 14 x 1,50			
223016	M 16 x 1,50			
223018	M 18 x 1,50			
223020	M 20 x 1,50			
223022	M 22 x 1,50			
223024	M 24 x 1,50			
223026	M 26 x 1,50			

Multibox

Couplings

Clamping collars

Seal rings / Gasket

Miscellaneous

Raccords

Colliers de fixation

Joints / Bagues d'étanchéité

Divers

Steckverbinder

Klemmschellen

Dichtungsringe

Sonstiges



Couplings

Raccords

Stekverbinder



Multibox Raufoss BRK

Ref.

260094

Content (175 pieces)

Ref.	Designation	Qty	Ref.	Designation	Qty
6237212	Push-in Coupling 12x1,5 - T 6x1 (4/6)	5	6237743	Socket joint 16x1,5	5
6237216	Push-in Coupling 16x1,5 - T 6x1 (4/6)	5	6237862	90° Elbow 2 Tappings 16x1,5	5
6237232	Push-in Coupling 12x1,5 - T 8x1 (6/8)	5	6237864	Union T 3 Tappings 16x1,5	5
6237236	Push-in Coupling 16x1,5 - T 8x1 (6/8)	5	6236833	90° Elbow P5 16x1,5	10
6237237	Push-in Coupling 22x1,5 - T 8x1 (6/8)	5	6236835	Union T P5 -16x1,5	5
6237336	Push-in Coupling 16x1,5 - T 10x1,5 (7/10)	5	6236834	Union L P5 - 16x1,5	5
6237337	Push-in Coupling 22x1,5 - T 10x1,5 (7/10)	5	6237999	Bulkhead coupling 16x1,5 - 22x1,5	5
6237376	Push-in Coupling 16x1,5 - T 12x1,5 (9/12)	10	6237205	Tube connector 6x1 (4/6)	5
6237377	Push-in Coupling 22x1,5 - T 12x1,5 (9/12)	5	6237225	Tube connector 8x1 (6/8)	5
6237456	Push-in Coupling 16x1,5 - T 16x2 (12x16)	5	6237325	Tube connector 10x1,5 (7/10)	5
6237457	Push-in Coupling 22x1,5 - T 16x2 (12x16)	5	6237365	Tube connector 12x1,5 (9/12)	5
6237476	Push-in Coupling 16x1,5 - T 18x2 (14/18)	5	6237465	Tube connector 16x2 (12x16)	5
6237477	Push-in Coupling 22x1,5 - T 18x2 (14/18)	5	6237776	Test point 16x1,5	5
6237012	Plug-in P5 12x1,5	5	6237607	Plug 16x1,5 with joint	5
6237016	Plug-in P5 16x1,5	10	6237608	Plug 22x1,5 with joint	5
6237017	Plug-in P5 22x1,5	5	6237616	Transfer adapter 22x1,5 - 16x1,5	5

See detailed product information in our Raufoss Couplings Catalogue.



Multibox Raufoss ABC

Ref.

2600940

Content (188 pieces)

Ref.	Designation	Qty	Ref.	Designation	Qty
6237205	Tube connector 6x1 (4/6)	5	90212005	Push-in Coupling ABC 12x1,5 (9/12)	10
6237225	Tube connector 8x1 (6/8)	5	92050030	ABC Union Y Regular	3
6237325	Tube connector 10x1,5 (7/10)	5	92050090	ABC 90° Elbow Regular	5
6237365	Tube connector 12x1,5 (9/12)	5	92050010	ABC Union T&L Regular	5
6237465	Tube connector 16x2 (12x16)	3	96150205	ABC Union Female Regular	5
90106012	Push-in Coupling 12x1,5 T 6x1 (4/6)	3	96050000	ABC Threadless Test point R	3
90106016	Push-in Coupling 16x1,5 T 6x1 (4/6)	3	96452018	Exagonal Rotoloc 18mm	3
90108012	Push-in Coupling 12x1,5 T 8x1 (6/8)	3	96450022	Exagonal Rotoloc 22mm	3
90108016	Push-in Coupling 16x1,5 T 8x1 (6/8)	5	96452028	Exagonal Rotoloc 28mm	3
90108022	Push-in Coupling 22x1,5 T 8x1 (6/8)	3	96606010	Release Tool Standard 6x1 (4/6)	5
90112016	Push-in Coupling 16x1,5 T 12x1,5 (9/12)	8	96608010	Release Tool Standard T 8x1 (6/8)	5
90112022	Push-in Coupling 22x1,5 T 12x1,5 (9/12)	5	96612710	Release Tool Standard T 12x1,5 (9/12)	5
90116016	Push-in Coupling 16x1,5 T 16x2 (12x16)	3	96616010	Release Tool Standard T 15x1,5 (12/15)	5
90116022	Push-in Coupling 22x1,5 T 16x2 (12x16)	3	93160016	ABC Swivel Heavy Duty 16x1,5	3
96210008	Pusch-in Plug 8x1 (6/8)	3	93160022	ABC Swivel Heavy Duty 22x1,5	3
96210012	Pusch-in Plug 12x1,5 (9/12)	3	96460022	Rotolock Heavy Duty 22mm	3
93150012	ABC Swivel Regular 12x1,5	3	96462028	Rotolock Heavy Duty 28mm	3
93150014	ABC Swivel Regular 14x1,5	3	96150106	ABC Reducer HD -> Regular	3
93150016	ABC Swivel Regular 16x1,5	10	92060090	ABC 90° Elbow Heavy Duty	3
93150022	ABC Swivel Regular 22x1,5	10	92060010	ABC Union T&L Heavy Duty	3
90206005	Push-in Coupling ABC 6x1 (4/6)	3	90216006	ABC Threadless Coupling HD 16x2 (12x16)	3
90208005	Push-in Coupling ABC 8x1 (6/8)	10			

See detailed product information in our Raufoss Couplings Catalogue.

GB

Recovery box

FR

Coffret dépannage

DE

Reparatur Sortiment



Ref.	Designation
260096	Raufoss BRK Couplings box

Content (75 pieces)

Ref.	Designation	Qty	Ref.	Designation	Qty
6237205	Tube connector 6x1 (4/6)	4	6237456	Push-in Coupling 16x1,5 - T 16x2 (12/16)	3
6237225	Tube connector 8x1 (6/8)	6	6237012	Swivel Plug-in P5 12x1,5	3
6237325	Tube connector 10x1,5 (7/10)	3	6237014	P5 Swivel Plug-in 14x1,5	3
6237365	Tube connector 12x1,5 (9/12)	6	6237016	P5 Swivel Plug-in 16x1,5	6
6237465	Tube connector 16x2 (12/16)	3	6237017	P5 Swivel Plug-in 22x1,5	5
6237216	Push-in Coupling 16x1,5 - T 6x1 (4/6)	5	6236835	Union T P5 - 16x1,5	3
6237236	Push-in Coupling 16x1,5 - T 8x1 (6/8)	5	6236833	90° Elbow P5 - 16x1,5	3
6237336	Push-in Coupling 16x1,5 - T 10x1,5 (7/10)	6	6237616	Transfer adapter 22x1,5 - 16x1,5	5
6237376	Push-in Coupling 16x1,5 - T 12x1,5 (9/12)	6			

Ref.	Designation
260096B	Same content as in the reference 260096 plus a Tube 15x1,5 (12/15) male tube connector

Ref.	Designation
260096WI	Raufoss BRK Couplings box

Content (49 pieces)

Ref.	Designation	Qty	Ref.	Designation	Qty
6237365	Tube connector 12x1,5 (9/12)	2	6237447	Push-in Coupling 22x1,5 - T 12/15	2
6237225	Tube connector 8x1 (6/8)	2	6236826	90° Elbow P5 - T 8x1 (6/8)	2
6237232	Push-in Coupling 12x1,5 - T 8x1 (6/8)	2	6236991	90° Elbow P5 - T 10x1 (8x10)	2
6237236	Push-in Coupling 16x1,5 - T 8x1 (6/8)	4	6236836	90° Elbow P5 - T 12x1,5 (9/12)	3
6237237	Push-in Coupling 22x1,5 - T 8x1 (6/8)	3	6236992	90° Elbow P5 - T 15x1,5 (12/15)	2
6237307	Push-in Coupling 22x1,5 - T 10x1 (8x10)	3	6237016	P5 Swivel Plug-in 16x1,5	4
6237306	Push-in Coupling 16x1,5 - T 10x1 (8x10)	3	6237017	P5 Swivel Plug-in 22x1,5	4
6237377	Push-in Coupling 22x1,5 - T 12x1,5 (9/12)	3	6236834	Union L P5 - 16x1,5	2
6237376	Push-in Coupling 16x1,5 - T 12x1,5 (9/12)	4	6236835	Union T P5 - 16x1,5	2

GB

Raufoss Box ABC

FR


Coffret Raufoss ABC


DE

Raufoss ABC Sortiment



Ref.	Designation				
2600960	Raufoss ABC Couplings box				
Content (101 pieces)					
Ref.	Designation	Qty	Ref.	Designation	Qty
93150012	ABC Swivel Regular 2x1,5	3	96210012	Push-in Plug 12x1,5 (9/12)	3
93150014	ABC Swivel Regular 14x1,5	2	90206005	Push-in Coupling ABC T 6x1 (4/6)	2
93150016	ABC Swivel Regular 16x1,5	5	90208005	ABC Threadless Coupling Reg 8x1 (6/8)	5
93150022	ABC Swivel Regular 22x1,5	3	90212005	Push-in Coupling ABC 12x1,5 (9/12)	5
90106012	Push-in Coupling 12x1,5 T 6x1 (4/6)	3	90216006	ABC Threadless Coupling HD16x2 (12/16)	2
90106016	Push-in Coupling 16x1,5 T 6x1 (4/6)	3	96150205	ABC Union Female Regular	5
90108012	Push-in Coupling 12x1,5 T 8x1 (6/8)	5	92050090	ABC 90° Elbow Regular	5
90108016	Push-in Coupling 16x1,5 T 8x1 (6/8)	5	92050010	ABC 90° Elbow Regular	3
90108022	Push-in Coupling 22x1,5 T 8x1 (6/8)	3	92050030	ABC Union Y Regular	2
90112016	Push-in Coupling 16x1,5 T 12x1,5 (9/12)	5	96150106	ABC Reducer HD -> Regular	2
90112022	Push-in Coupling 22x1,5 T 12x1,5 (9/12)	3	92060090	ABC 90° Elbow Heavy Duty	2
90116016	Push-in Coupling 16x1,5 T 16x2 (12/16)	2	92060010	ABC Union T&L Heavy Duty	1
90116022	Push-in Coupling 22x1,5 T 16x2 (12/16)	3	93160016	ABC Swivel Heavy Duty 16x1,5	2
96452018	Rotoloc 18mm	1	93160022	ABC Swivel Heavy Duty 22x1,5	2
96450020	Rotoloc 20mm	2	96606010	Release Tool Standard 6x1 (4/6)	2
96450022	Rotoloc 22mm	1	96608010	Release Tool Standard 8x1 (6/8)	2
96452028	Rotoloc 28mm	2	96612710	Release Tool Standard 12x1,5 (9/12)	2
96210008	Push-in Plug 8x1 (6/8)	3			
Ref.	Designation				
2600960B	Same content as in the reference 2600960 plus a 12/15 tube connector and a push-in coupling for a 12/15				


(GB) Double quick release couplings	(FR) Raccords unions doubles rapides	(DE) Schnellkupplungen-Rohr Verbinder			
Ref.					
260091					
Content (24 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
6237205	Tube connector 6x1 (4/6)	2	6237475	Tube connector 18x2 (14/18)	1
6237225	Tube connector 8x1 (6/8)	3	244308	Tube connector Ø 4	3
6237325	Tube connector 10x1,5 (7/10)	2	244310	Tube connector Ø 6	3
6237365	Tube connector 12x1,5 (9/12)	6	244311	Tube connector Ø 8	3
6237465	Tube connector 16x2 (12/16)	1			


Quick release couplings for servitudes	Raccords rapides pour servitudes	Schnellkupplungen für Baulasten			
Ref.					
244998					
Content (50 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
244308	Tube connector Ø 4	6	244951	Diameter reducer D6 --> D4	4
244310	Tube connector Ø 6	5	244955	Diameter reducer D8 --> D6	4
244310	Tube connector Ø 6	5	244910	Male hose adapter Ø 6 - 1/8"	2
244311	Tube connector Ø 8	10	244920	Male hose adapter Ø 6 - 1/4"	2
244328	Union T Ø 4	2	244940	Male hose adapter Ø 8 - 1/8"	2
244330	Union T Ø 6	3	244921	Male hose adapter Ø 8 - 1/4"	2
244331	Union T Ø 8	3			

Clamping collars

Colliers de fixation


Klemmschellen


(GB)	(FR)	(DE)	
Polyamide clamps	Colliers polyamide	Polyamid Kabelbinder Sortiment	
Ref.			
311998			
Content (1900 pieces)			
Ref.	Dimension	Qty	Ref. Dimension Qty
311421	292mm length - 7,6mm width	100	311414 140mm length - 3,6mm width 400
311422	368mm length - 7,6mm width	100	311415 200mm length- 3,6mm width 200
311412	100mm length- 2,5mm width	400	311413 200mm length- l 2,5mm width 300
311417	188mm length- 4,8mm width	200	


Steel and polyamide clamps	Colliers acier et polyamide	Rohrschelle aus Stahl und Polyamid Kabelbinder Sortiment	
Ref.			
310500			
Content (389 pieces)			
Ref.	Dimension	Qty	Ref. Dimension Qty
310520	Ø 8-12mm, 9mm length	15	31056612 Ø 32-50 - 12mm length 8
310530	Ø 10-16mm - 9mm length	15	31056812 Ø 40-60 - 12mm length 10
310542	Ø 16-25mm-9mm length	12	311428 200mm width- 4,8mm length 100
310543	Ø 20-32mm- 9mm length	10	311418 300mm width- 4,8mm length 100
31056312	Ø 20-32 - 12mm length	8	311422 368mm width - 7,6mm length 100
31056512	Ø 25-40 - 12mm length	10	311788 for screw with 7 pans 1


Seal rings /
GasketJoints /
Bagues d'étanchéité


Dichtungsringe


(GB)	(FR)	(DE)			
Bonded Seal rings	Bagues BS	BS Dichtringe			
Ref.					
431351					
Content (78 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
431356	8,7 x 14 x 1 - M8	5	431370	17,28 x 23,8 x 2,03 - 3/8"	10
431361	10,7 x 16 x 1,5 - M10 - 1/8"	5	431372	18,7 x 26 x 1,5 - M18	5
431366	13,74 x 20,57 x 2,03 - 1/4"	5	431375	21,54 x 28,58 x 2,49 - 1/2"	8
431365	12,7 x 18 x 1,5 - M12	5	431376	22,70 x 30 x 2 - M22	8
431367	14,7 x 22,00 x 1,5 - M14	5	431377	24,7 x 32 x 2	7
431369	16,7 x 24,00 x 1,5 - M16	10	431379	27,05 x 34,93 x 2,49 - 3/4	5


Break seals	Joints de freinage	Bremsdichtung			
Ref.					
101199					
Content (107 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
101100	O-ring + bowl Ø 10	5	101115	O-ring Ø 18	3
101101	O-ring Ø 12	5	101116	Bowl Ø 18	3
101102	Bowl Ø 12	5	101121	O-ring Ø 22	20
101111	O-ring Ø 14	5	101122	Bowl Ø 22	20
101112	Bowl Ø 14	5	18094	O-ring Ø 26	3
101113	O-ring Ø 16	15	18095	Bowl Ø 26	3
101114	Bowl Ø 16	15			


GB O-ring DIN Standard	FR Joints toriques norme DIN	DE O-Ring DIN-Norm			
Ref.					
415049					
Content (320 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
415051	10 x 14	15	415063	24 x 30	10
415052	12 x 16	15	415064	25 x 29	10
415053	14 x 18	15	415065	25 x 31	10
415054	15 x 19	20	415066	28 x 32	10
415055	16 x 20	20	415067	28 x 34	10
415056	17 x 21	20	415068	30 x 36	10
415057	18 x 22	20	415069	32 x 38	10
415058	18 x 24	15	415070	34 x 40	10
415059	20 x 24	15	415071	36 x 42	10
415060	20 x 26	15	415072	38 x 44	10
415061	22 x 26	15	415073	40 x 44	10
415062	24 x 28	15	415074	40 x 46	10


O-rings top deck	Joints toriques cotes impéiales	O-Ring Zölling			
Ref.					
415001					
Content (382 pieces)					
Dimension	Position	Dimension	Position	Dimension	Position
2,90 x 1,78	20	13,95 x 2,62	13	28,17 x 3,53	10
3,69 x 1,78	20	15,54 x 2,62	13	29,75 x 3,53	10
4,47 x 1,78	20	17,12 x 2,62	13	31,34 x 3,53	10
5,29 x 1,78	20	18,72 x 2,62	13	32,92 x 3,53	10
6,07 x 1,78	20	18,64 x 3,53	10	34,52 x 3,53	10
7,65 x 1,78	20	20,22 x 3,53	10	36,10 x 3,53	10
9,25 x 1,78	20	21,82 x 3,53	10	37,70 x 3,53	10
9,19 x 2,62	13	23,39 x 3,53	10	37,47 x 5,34	7
10,77 x 2,62	13	25,00 x 3,53	10	40,65 x 5,34	7
12,37 x 2,62	13	26,57 x 3,53	10	43,82 x 5,34	7

(GB) O-rings metric dimensions	(FR) Joints toriques cotes métriques	(DE) Metrische O-Ringe			
Ref. 415002					
Content (398 pieces)					
Dimension	Position	Dimension	Position	Dimension	Position
2,8 x 1,9	20	13,8 x 2,4	14	29,4 x 3,1	10
3,8 x 1,9	20	15,8 x 2,4	14	29,7 x 3,5	10
4,8 x 1,9	20	17,8 x 2,4	14	31,7 x 3,5	10
5,8 x 1,9	20	19,8 x 2,4	14	33,7 x 3,5	10
6,8 x 1,9	20	20 x 3	10	34,4 x 3,1	10
7,8 x 1,9	20	22 x 3	10	35,7 x 3,5	10
8,8 x 1,9	20	22,1 x 3,5	10	39,4 x 3,1	10
9,8 x 2,4	14	24,4 x 3,1	10	39,7 x 3,5	10
10,8 x 2,4	14	24,7 x 3,5	10	44,4 x 3,1	10
11,8 x 2,4	14	25,7 x 3,5	10	47,7 x 3,5	10

Brass joints	Joints cuivre	Kupfer Dichtringe			
Ref. 100599					
Content (355 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
100505	6,2 x 10 x 1	50	100601	18,3 x 24 x 1,5	15
100514	8,2 x 12 x 1	50	100627	22,4 x 27 x 1,5	15
100531	10,3 x 14 x 1	50	100631	22,4 x 19 x 1,5	15
100548	12,3 x 16 x 1,5	50	100644	24,4 x 32 x 2	10
100568	14,3 x 18 x 1,5	50	100651	26,4 x 32 x 2	10
100588	16,3 x 22 x 1,5	20			
100585	16,3 x 20 x 1,5	20			

(GB) Drain Seals	(FR) Joints metallo fermes	(DE) Entwässerungsringe			
Ref. 100398					
Content (185 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
100302	6,2 x 10 x 1,5	20	100320	18,3 x 24 x 2	15
100306	8,2 x 14 x 1,5	20	100324	20,4 x 26 x 2	15
100308	10 x 16 x 1,5	20	100327	22,4 x 29 x 2	10
100310	12,3 x 18 x 2	20	100327	22,4 x 29 x 2	10
100313	14,3 x 20 x 2	20	100330	24,4 x 32 x 2,5	10
100317	16,3 x 22 x 2	15	100331	26,4 x 32 x 2,5	10


Cutting rings DIN batch	Bagues coupantes serie DIN	Schneidring DIN Serie			
Ref. 432001					
Content (91 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
850276	4 LL	10	850303	10 L	5
850221	6 LL	15	850304	12 L	5
850222	8 LL	10	850305	15 L	4
850223	10 LL	5	850325	16 L	2
850224	12 LL	5	850306	18 L	3
850301	6 L	15	850316	16 S	2
850302	8 L	10			


Thin rings PN 63 norm	Bagues fines norme PN 63	Schneidring PN 63 Norm			
Ref. 318201					
Content (86 pieces)					
Ref.	Dimension	Qty	Ref.	Dimension	Qty
318204	4	10	318214	14	4
318206	6	15	318216	16	5
318208	8	20	318218	18	4
318210	10	10	318220	20	3
318212	12	15			

Miscellaneous

Divers

Sonstiges

(GB)	(FR)	(DE)				
Hydraulic brake screws T4,76 and T5	Vis de freinage hydraulique T4,76 et T5	Hydraulische Bremsschraube T4,76 und T5				
Ref.						
230298						
Content (44 pieces)						
Ref.	Designation	Form	Ø Tube	Thread/Tapping	Length	Qty
230001	Screw	E	4,76	10 x 1,00	16	5
230153	Screw	E	4,76	12 x 1,00	20	2
230158	Screw	E	4,76	G3/8" - 24 UNF	20	5
230151	Screw	E	4,76	10 x 1,25	15	2
230156	Screw	E	4,76	G1/2" - 20 UNF	18	3
230155	Screw	E	4,76	G7/16" - 20 UNF	18	2
230101	Screw	F	4,76	10 x 1,00	16	8
230259	Screw	F	4,76	12 x 1,00	21	3
230256	Screw	F	4,76	G3/8" - 24 UNF	20	5
230252	Screw	F	4,76	10 x 1,25	19,5	5
230050	Socket Joint	E		10 x 1,00		1
230150	Socket Joint	F		10 x 1,00		1
230055	Socket Joint	F		G3/8" - 24 UNF		1
230056	Socket Joint	E		G7/16" - 24 UNF		1

Hydraulic brake screws T6-T6,35 and T8	Vis de freinage hydraulique T6-T6,35 et T8	Hydraulische Bremsschraube T6-T6,35 und T8				
Ref.						
230299						
Content (35 pieces)						
Ref.	Designation	Form	T	Thread/Tapping	Length	Qty
230004	Screw	E	6	12 x 100	20	6
230157	Screw	E	6	1/2" - 20 UNF	17	3
230159	Screw	E	6	7/16 - 24 UNF	15,5	3
230154	Screw	E	6	7/16 - 20 UNF	21	3
230260	Screw	F	6	12 x 100	21	6
230248	Screw	Citroën	6,35	12 x 125		2
230011	Screw	E	8	14 x 150	25	3
230012	Screw	E	8	14 x 100	18	3
230013	Screw	E	8	1/2" - 20 UNF	16	3
230051	Socket Joint	E		12 x 100	29	1
230053	Socket Joint	F		7/16 - 20 UNF		1
230054	Socket Joint	E		1/2" - 20 UNF		1

GB

Reinforcement sockets

FR

Douilles de renfort

DE

Verfestigungshülsen



Ref.

244199

Content (169 pieces)

Ref.	For tube inner Ø	Qty
244127	2	20
244140	3	30
244120	4	20
244141	5	20
244121	6	15
244142	7	10
244176	7,5	15
244122	8	10
244143	9	10
244123	10	10
244144	12	5
244166	14	4

Kongsberg Raufoss Distribution SAS
54 route industrielle de la Hardt
67120 MOLSHEIM
France
Tél. +33 3 88 47 87 47
Fax +33 3 33 47 87 45

Heures d'ouverture :

de 8 h à 12 h et de 13 h 15 à 17 h

Vous pouvez joindre notre équipe du lundi au vendredi

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soit par e-mail à claude.gossmann@ka-group.com
ou alice.lejean@ka-group.com

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or by e-mail at alice.lejean@ka-group.com
or claude.gossmann@ka-group.com

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Sie können Ihre Bestellungen per Fax +33 3 88 47 87 45
oder per E-Mail an alice.lejean@ka-group.com
oder an claude.gossmann@ka-group.com senden



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