



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



Hydraulic Hose Fittings in Stainless Steel

Catalogue



ENGINEERING YOUR SUCCESS.

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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 60,000 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 1,500 ParkerStores™. 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.

Hose Products Division Europe –

the market leader and your supplier of choice.



Put a bite on the braid.

Parker's world-recognized tiger mascot has represented the Parkrimp No-Skive hose assembly program since its introduction in 1980. In a contest originally held by our marketing department, the tiger was the winning suggestion over three others: a turtle (deemed "too slow"), an alligator ("not very good looking") and a shark ("too intimidating" particularly at the time of the release of the movie Jaws).

More than three decades later, the tiger graphic still supports the Parkrimp message everywhere, clearly symbolizing our unique, patented Parkrimp fittings with tapered steel teeth and our Parkrimp crimping machines. Their ability to eliminate hose cover skiving and achieve the metal-to-metal grip of factory assemblies revolutionized the process for markets worldwide. And today, it's the industry standard.

Pride in our products: At Parker, we believe the best fluid connector products for your operation are the ones that get the job done right. We offer the most comprehensive line of hoses, fittings, equipment and accessories you'll need. And if there's something you need that's not a standard product, we're able to design and manufacture it for you with ease.

You'll also benefit from our ultimate competitive advantage – our network of distribution outlets that can provide our products nearly anytime and anywhere. We strive to provide customers with local engineering, local products and local service.

Parker offers the largest selection of hoses plus more fitting sizes than any other manufacturer. You'll find a wide variety of hoses including braided, spiral and multi-purpose, and more than 4,500 Parkrimp fittings. Parker products have been designed, tested and approved to meet and exceed global standards.



The right product is available for your application, including hose that features a variety of abrasion resistant cover choices, flexibility, a wide range of media compatibility and more – characteristics that make Parker the hose supplier of choice for customers that demand the most from their equipment.

Hose Products Division Europe –

a long history of providing premier customer service.

Our European division headquarters in Veniano, Italy is our precision-engineered-solution center for products, materials and processes, and is equipped with state-of-the-art

development, testing and performance technology. Hose Products Division Europe has 5 manufacturing locations dedicated to provide a quality product on time. Knowing that

uptime and productivity are major drivers in your business success, we proudly present this catalog outlining Parker's best-in-class hose products and services.



Low, Medium, High and Ultra Pressure Hose



Parkrimp® Hose Fittings



Parkrimp® Assembly Equipment



Mobile Phone Applications



Parker Tracking System



ParkerStore™ Onsite Container Program and Hose Doctor Service



Custom Hose Assemblies and Hose Fittings



Accessories

Non Standard and Customised Hose Fittings

Short runs or special applications are met by Parker's Rapid Service Unit (RSU)



The Rapid Service Unit (RSU) is part of the Manufacturing Unit Fittings of Hose Products Division Europe and is a dedicated unit for the manufacture of customised and prototype hose fittings. The unit is responsible for both checking the technical possibilities of the customer request from an engineering perspective as well as establishing the most economic production process. Because of close cooperation between Parker's Manufacturing Units and the Parker Sales Companies (PSC) the Rapid Service Unit (RSU) can live up to its name by reacting, quoting and supplying rapidly. After receiving the order, the RSU team will promptly and care-

fully process the order – from its receipt to the shipping of the fittings. For the production of such fittings, we have dedicated resources in a state-of-the-art manufacturing cell with CNC machinery and tools.

The Rapid Service Unit (RSU) can provide:

- Jump sizes
- Specific end configurations
- Specific drop lengths
- Fitting/tube combinations
- Customised prototypes
- Any batch size upwards from a single piece

Material options include steel, stainless steel, brass and special materials on request.



Special markets or projects require individual custom solutions

- Low-, medium- and high-pressure hydraulic hose assemblies with a broad variety of end-configurations
- Combined hose/tube assemblies
- Manipulated steel, stainless steel, aluminium and copper tubes with a broad variety of brazed, welded, formed and pre-assembled end-configurations
- Industrial hose assemblies or special hose assemblies for fluid applications.

Where corrosion resistance is vital

... stainless steel is the perfect solution

For pneumatic and hydraulic applications in demanding environments, your connection requirements will be met by Parker's range of stainless steel products. Parker offers a broad range of connection components such as tubes, tube fittings or 1- or 2-piece hose fittings for low, medium and high-pressure hydraulic hoses. We engineer the best solutions for our customers' requirements and help them to achieve

higher levels of profitability by high savings in the supply chain. Why? Because we offer a complete system of stainless steel products – everything from one source and approved by well-known international classification bodies. It goes without saying that Parker's stainless steel components are produced using superior quality stainless steel grade 1.4571, 1.4404 or 1.4401.

Thanks to their resistance to corrosion and acids, all components are suitable for tough environments. However, some special applications require special materials and here you can rely on Parker as well – we have the resources to produce customised hose fittings for even the most demanding customer requirements.

Power in Stainless Steel

- ✓ Premier customer service
- ✓ Single-source solution
- ✓ Worldwide availability
- ✓ One team for all requirements
- ✓ Customized products
- ✓ Special materials
- ✓ Complementary design of tube & hose fittings

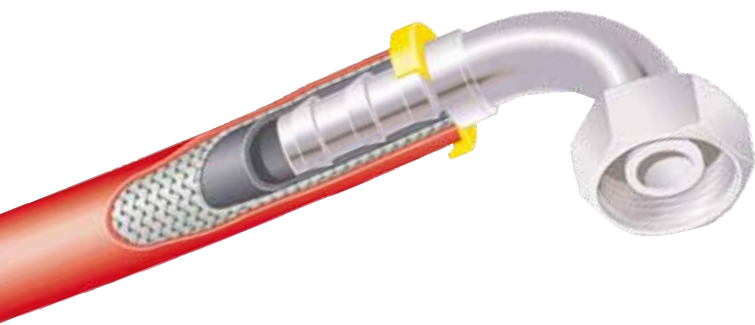


Fittings in Stainless Steel

– for applications where corrosion resistance is vital

Push-Lok fittings and low-pressure Push-Lok hoses

For low-pressure pneumatic or hydraulically operated systems within the automotive, semi-conductor, food processing or pulp and paper industry.



Low-pressure up to 2.4 MPa

Sizes 1/4" to 3/4"

Fitting styles

DIN, BSP, SAE, JIC, ORFS and others

Hose styles

801Plus, 804, 821FR, 831, 836, 837BM, 837PU-Plus, 830M, 838M

Parkrimp® *No-Skive* crimp fittings and low-pressure hoses

For low pressure applications especially Rail Market.



Low-pressure up to 7,5 MPa

Sizes 1/4" to 1"

Fitting styles

DIN and BSP (other end configurations on request)

Hose styles

681DB

Parkrimp® *No-Skive* crimp fittings (1-piece and 2-piece) and Parkrimp® *No-Skive* medium- & high-pressure hoses

For medium- and high-pressure applications such as marine, steel mill, food processing, pulp and paper, and off-shore drilling.



Medium-pressure up to 42.5 MPa

Sizes 1/4" to 1.1/4"

Fitting styles

DIN, BSP, SAE, Flange

Hose styles

301SN, 302, 304, 421RH, 421SN, 421WC, 422, 424, 426, 436, 441, 441RH, 451TC, 461LT, 462, 462ST, 471TC, 472TC, 492, 492ST, 692, 692Twin, 811, 881

High-pressure up to 45.0 MPa

Sizes 3/8" to 1.1/4"

Constructed with 4 spiral layers of steel reinforcement for severe impulse and pressure applications.

Fitting styles

DIN, BSP, SAE, Flange

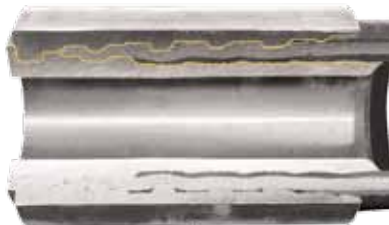
Hose styles

371LT, 372, 372RH, 372TC, 701

ParLock skive type crimp fittings (2-piece Interlock) and ParLock skive high-pressure hoses

Constructed with 4-6 spiral layers of steel reinforcement for high flex-impulse or high vibration applications.

The ParLock design is approved by the German Accident Prevention & Insurance Association (Berufsgenossenschaft) conforming to EN 201 – approved for injection moulding machine applications.



High-pressure up to 45.0 MPa

Sizes 3/8" to 2"

Fitting styles

DIN, BSP, SAE, Flange

Hose styles

H29, H29TC, H29ST, R42, R42TC, R42ST

Whatever application you have

... we have the best solution in stainless steel

- ✓ Automotive / Machine Tool
- ✓ Injection Moulding
- ✓ Pulp and Paper
- ✓ Marine / Offshore / Shipyard
- ✓ Power Generation and Energy
- ✓ Vertical Drill Rigs
- ✓ Transportation
- ✓ Chemical Industry
- ✓ Tool Industry
- ✓ Steel Works



Parker Hose Products Division

– a market leader in the hose business

Parker provides proven leak-free fluid conveying systems around the globe and has the power to support them!

Low-Pressure Push-Lok

The intelligent Push-Lok System covering different types of rubber, thermoplastic as well as a hybrid hose version and a wide selection of reusable fittings made from steel, brass and stainless steel. Hoses available in 8 different colours. **Pressure range: Up to 2.4 MPa**

Low-Pressure (Transportation, Air Conditioning, Others)

Fittings to use with hose 681DB for application within rail way vehicles with end configuration DIN and BSP.

Pressure range: Up to 7.5 MPa

Medium-Pressure Hydraulics

Hose and fitting product range for applications in mobile and industrial hydraulics. The perfect range for the more demanding market requirements with a broad selection of Parkrimp No-Skive fittings, with over sixty end configurations, combined with Parker hoses and crimpers allows simple and safe assembly – whenever and wherever needed.

Pressure range: Up to 42.5 MPa

High-Pressure Hydraulics

Heavy-duty products for heavy-duty applications with a full range of Parkrimp No-Skive multispiral hoses and fittings and ParLock skive type hoses and fittings

Pressure range: Up to 45.0 MPa

For the full range of hose products please refer to CAT/4400/UK

Classification Bodies

The mission of classification bodies is to contribute to the development and implementation of technical standards for the protection of life, property and the environment.

(1) Germanischer Lloyd (GL)

German independent organisation of technical experts approving products for the German mercantile marine and the energy sector – GLIS (oil and gas, wind energy, etc...)

(2) Det Norske Veritas (DNV)

Norwegian service company for managing risk in ship classification, off-shore industry, etc...

(3) RINA (Registro Italiano Navale)

Italian company offering certification, verification, control, assistance in marine, energy & process, transport and industry.

(4) Deutsche Bahn (DB) - German Standard DIN 5510 - Part 2

The German rail authority (DB) approves the behaviour of products with respect to their resistance to burning and their ability to self-extinguish after a fire, according the DIN 5510-2 requirements.

(5) Lloyd's Register (LR)

English independent organisation providing certification around the world. Marine services, Rail services and Energy services are their main activities.

(6) American Bureau of Shipping (ABS)

US company providing rules for safety in the marine environment.

(7) Mine Safety and Health Administration (MSHA)

US organisation for safety in the mining industry

(8) French Standard NF F-16-101/102 (NF)

Tests the fire behaviour and fire effluents of the hose cover material for rail applications.

(9) British Standard (BS 6853)

Tests the fire behaviour and fire effluents of the hose cover material for rail applications.

(10) MarED

MarED is the Group of Notified Bodies for the Implementation of the Marine Equipment Directive.

(11) UNI CEI 11170-1:2005

Railway and tramway vehicles
– Guidelines for fire protection of railway, tramway and guided path vehicles

(12) Bureau Veritas (BV)

Bureau Veritas is today the most widely recognized certification body in the world, offering solutions in the key strategic fields of operations: Quality, Health & Safety, Environment and Social Responsibility.

(13) Verteidigungs-Gerätenorm (VG)

German Organisation providing approvals for military equipment.

EN	European Standard
ISO	International Organisation for Standardization
SAE	Society of Automotive Engineers (US organisation)

		Schlauch	Armaturen Serie	Druckträger	Standard	GL (1)	DNV (2)	RINA (3)	DB/DIN 5510 (4)	LR (5)	ABS (6)	MSHA (7)	NF (8)	BS 6853 (9)	MarED (10)	UNI CEI (11)	BV Marine (12)	VG (13)	Niederdruck		Mitteldruck										Hochdruck	
																															Parkrimp No-Skive	ParLock
Low pressure	Push-Lok	801Plus	82	1 braid, fibre	-																											
		830M	82	1 braid, fibre	-																											
		831	82	1 braid, fibre	-																											
		837BM	82	1 braid, fibre	-																											
		837PU	82	1 braid, fibre	-																											
Low pressure	Push-Lok	804	82	1 braid, fibre	-																											
		821FR	82	1 braid, fibre	-																											
		836	82	1 braid, fibre	-																											
		838M	82	1 braid, fibre	-																											
		681DB	64	2 braids, fibre	DIN EN 854-2TE				X				X																			
Mitteldruck		4215N	43/48/47	1 braid, wire	DIN EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT	X	X	X		X	X				X		X															
		422	43/48/47	1 braid, wire	DIN EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT																											
		3015N	43/48/47	2 braids, wire	DIN EN 853-2SN - SAE 100R2AT	X	X	X		X	X				X		X															
		302	43/48/47	2 braids, wire	DIN EN 853-2SN - ISO 1436-2SN/R2AT - SAE 100R2AT																											
		441	43/47	1 braid, wire	ISO 11237-R16 - SAE 100R16																											
		451	43	1/2 braids, wire	ISO 11237-R17 - SAE 100R17																											
		492	47	1 braid, wire	Exceeds DIN EN 857-1SC - ISO 11237-1SC	X	X	X		X					X																	
		462	48/47	2 braids, wire	Exceeds DIN EN 857-2SC - ISO 11237-2SC	X	X	X		X					X																	
		451TC	43	1/2 braids, wire	ISO 11237-R17 - SAE 100R17																											
		471TC	48	2 braids, wire	DIN EN 857-2SC - ISO 11237-2SC		X				X	X																				
		472TC	43/48	2 braids, wire	DIN EN 857-2SC - ISO 11237-2SC		X				X	X																				
		4925T	47	1 braid, wire	DIN EN 857-1SC - ISO 11237-1SC																											
		4625T	47	2 braids, wire	DIN EN 857-2SC - ISO 11237-2SC																											
		426	43	1 braid, wire	SAE 100R1AT						X	X																				
		436	43	2 braids, wire	SAE 100R16		X				X	X																				
		461LT	47	2 braids, wire	Exceeds DIN EN 857-2SC - ISO 11237-2SC																											
Hochdruck		424	43	1 braid, wire	SAE 100R1AT																											
		304	43	2 braids, wire	SAE 100R2AT																											
		421RH	48	1 braid, wire	DIN EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT				X				X	X																		
		441RH	47	1 braid, wire	ISO 11237-R16 - SAE 100R16				X				X	X																		
		463	47	2 braids, wire																												
		421WC	43	1 braid, wire	ISO 1436-1SN/R1AT - SAE 100R1AT																											
		692	47	1/2 braids, wire	Exceeds SAE 100R17																											
		692Twin	47	1/2 braids, wire	Exceeds SAE 100R17																											
		811	43	1 braid, 1 steelspiral	SAE 100R4																											
		881	43/48	1 braid, 1 steelspiral	SAE 100R4																											
		372	70	3 braids, wire	-	X	X			X					X																	
		371LT	70	3 braids, wire	-																											
		372TC	70	3 braids, wire	-																											
		372RH	70	3 braids, wire	-				X					X																		
		701	70	4 spiral, wire	DIN EN 856-4SP - ISO 3862-4SP	X		X																								
Hochdruck	ParLock	H29	V4 / V6	4 spiral, wire	Exceeds DIN EN 856-4SH - ISO 3862-4SH	X	X			X	X				X																	
		R42	V4 / V6	4/6 spiral, wire	ISO 3862-R15 - SAE 100R15	X	X			X	X				X																	
		H29TC	V4 / V6	4 spiral, wire	Exceeds EN 856-4SH - ISO 3862-4SH																											
		R42TC	V4 / V6	4/6 spiral, wire	ISO 3862-R15 - SAE 100R15																											
		H295T	V4 / V6	4 spiral, wire	Exceeds DIN EN 856-4SH - ISO 3862-4SH																											
Hochdruck	ParLock	R425T	V4 / V6	4/6 spiral, wire	ISO 3862-R15 - SAE 100R15																											



aerospace
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Hydraulic Hose Fittings in Stainless Steel

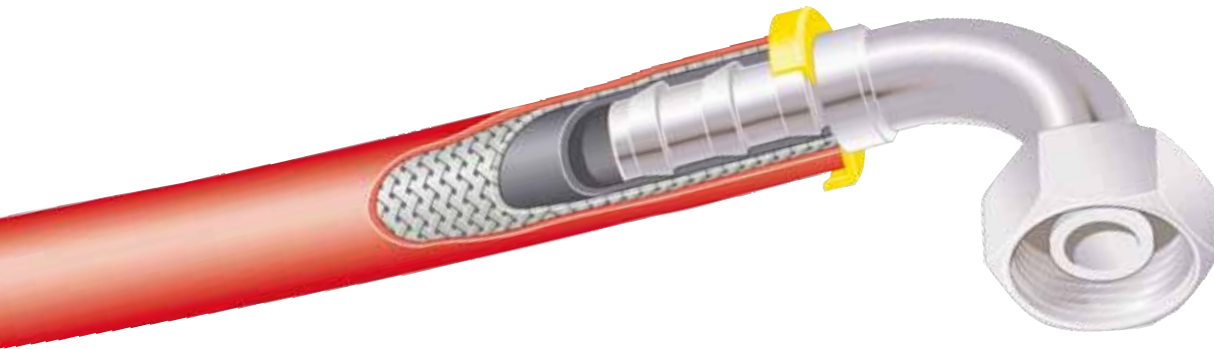
Low-Pressure



ENGINEERING YOUR SUCCESS.

Low-Pressure Push-Lok®

The self-grip hose system for low-pressure applications



Wide variety of hose types

6 rubber hose types

- 801Plus** for a variety of applications
- 804** for high-temperature water/phosphate ester fluids
- 821FR** with fire-retardant hose cover
- 831** ideal for petroleum-based fluids
- 836** for high oil temperatures
- 837BM** for a variety of applications including automotive

2 thermoplastic hose types

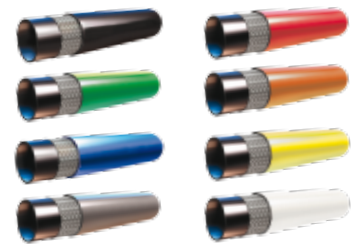
- 830M** for a variety of applications including automotive
- 838M** for non-conductive applications

1 hybrid hose type

- 837PU-Plus** for a variety of applications including automotive

8 different colours

- easy identification
- simple production processes
 - one colour for one particular medium
- easy control of maintenance intervals
- simple stock planning in different departments



Easy assembly – no tools or clamps required

Push-Lok® assembly (1a, b)

- Cut the hose with a sharp knife
- Push the nipple into the hose – that's all!



Push-Lok® disassembly (2a, b)

- Cut lengthwise along a line at approximately a 20° angle from the centre line of the hose. The cut should be approximately 2 cm long. Be careful not to nick barbs when cutting the hose.
- Grip hose and give a sharp downward tug to disengage from fitting.
- Before re-using the nipple, please check it for any damage.



Multipurpose

801Plus



Push-Lok Plus

For a variety of applications

830M



Push-Lok

For a variety of applications including automotive

831



Push-Lok

Ideal for petroleum based fluids

837BM



Push-Lok

For a variety of applications including automotive

837PU-Plus



Hybrid Push-Lok

For a variety of applications including automotive

Phosphate Ester

804



Push-Lok

For high temperature water and phosphate ester fluid

Fire retardant

821FR



Push-Lok

With fire retardant hose cover

High temperature

836



Push-Lok

For high oil temperatures

Non-conductive

838M



Push-Lok

For non-conductive applications

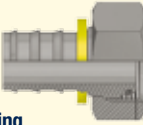
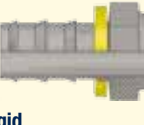
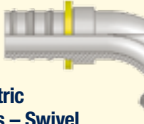
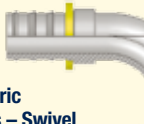
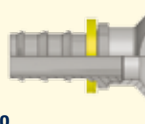
Hose Pressure Ratings

	Hose	Working Pressure (MPa) in Size														Temp.	Construction
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48			
Multipurpose	801Plus	2.4			2.4	2.1	2.1	2.1	1.4						-40/+100	1 braid, fibre	
	830M	1.8			1.8	1.8	1.8	1.8							-40/+80	1 braid, fibre	
	831	2.4			2.0	2.0	2.0	2.0	1.4						-40/+100	1 braid, fibre	
	837BM	1.8			1.8	1.8	1.8	1.8	1.4						-40/+100	1 braid, fibre	
	837PU	1.8			1.8	1.8	1.8	1.8	1.8						-40/+100	1 braid, fibre	
Phosphate Ester	804	1.7			1.7	1.7		1.7							-40/+80	1 braid, fibre	
Fire retardant	821FR	2.4			2.0	2.0		1.7							-40/+100	1 braid, fibre	
High temperature	836	1.7			1.7	1.7	1.7	1.7							-48/+150	1 braid, fibre	
Non-conductive	838M	1.8			1.8	1.8	1.8	1.8							-40/+80	1 braid, fibre	

You can find details on these products in our catalogue CAT/4400/UK
Information about standard products or non-standard products can be found in the current price list.
Dimensions shown may be changed at any time without prior notice.

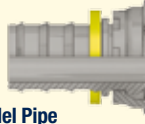
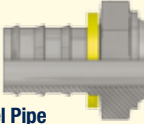
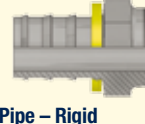
DIN – Metric

Page B1b-1 – B1b-4

CA B1b-1  Female Metric 24° Light Series with O-Ring Swivel – Straight ISO 12151-2-SWS-L – DKOL	CF B1b-1  Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow ISO 12151-2-SWE-L – DKOL 90°	D0 B1b-2  Male Metric 24° Light Series – Rigid Straight ISO 12151-2-S-L – CEL	C3 B1b-2  Female Metric Light Series – Swivel Straight (Ball Nose) DKL
C4 B1b-3  Female Metric Light Series – Swivel 45° Elbow (Ball Nose) DKL 45°	C5 B1b-3  Female Metric Light Series – Swivel 90° Elbow (Ball Nose) DKL 90°	1D B1b-4  Metric Standpipe Light Series – Rigid Straight ISO 8434-1 – BEL	49 B1b-4  Metric Banjo Straight DIN 7642

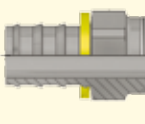
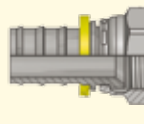
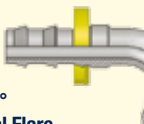
BSP

Page B1b-5 – B1b-6

92 B1b-5  Female BSP Parallel Pipe Swivel – Straight (60° Cone) BS5200-A – DKR	B2 B1b-5  Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) BS 5200-B – DKR 90°	D9 B1b-6  Male BSP Parallel Pipe Rigid – Straight (60° Cone) BS5200 – AGR	91 B1b-6  Male BSP Taper Pipe – Rigid Straight BS5200 – AGR-K
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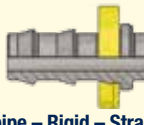
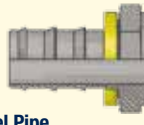
SAE

Page B1b-7 – B1b-8

01 B1b-7  Male NPTF Pipe Rigid – Straight SAE J476A / J516 – AGN	06/68 B1b-7  Female – JIC 37° SAE 45° Dual Flare Swivel – Straight ISO 12151-5-SWS – DKJ	39/3W B1b-8  Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow ISO 12151-5-SWES – DKJ 90°
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Others

Page B1b-9

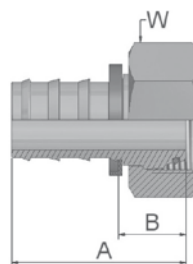
YW B1b-9  Male Standpipe – Rigid – Straight – A-Lok Metric Size Tube O.D. with Vee Notch	AF B1b-9  Male BSP Parallel Pipe Rigid – Straight (with O-ring Seal)
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Further end-configurations available on request.

CA

**Female Metric 24°
Light Series with O-Ring
Swivel – Straight**

ISO 12151-2-SWS-L – DKOL



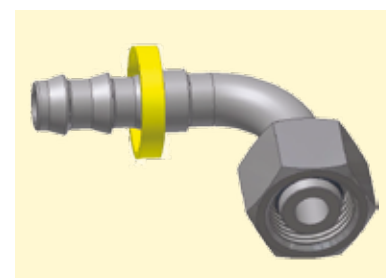
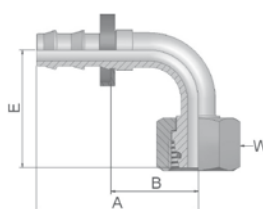
XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
3CA82-6-4C	6	1/4	-4	6.4	M12x1.5	6	40	21	14
3CA82-8-4C	6	1/4	-4	6.4	M14x1.5	8	36	17	17
3CA82-10-4C	6	1/4	-4	6.4	M16x1.5	10	36	16	19
3CA82-15-8C	12	1/2	-8	12.7	M22x1.5	15	46	19	27

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

CF

**Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow**

ISO 12151-2-SWE-L – DKOL 90°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
3CF82-15-8C	12	1/2	-8	12.7	M22x1.5	15	60	33	43	27
3CF82-22-12C	19	3/4	-12	19.1	M30x2	22	88	52	55	36

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

Also available in steel. Details can be found in CAT 4400/UK

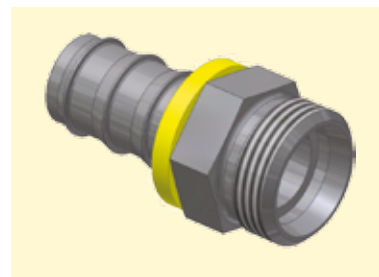
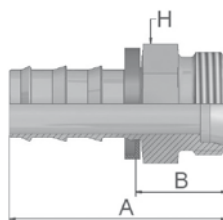
Approved **fitting series** for hose types:

B: Brass; **K:** Without plastic ring; **SM:** Metric Hexagon

82  801Plus 804 821FR 830M 831 836 837BM 837PU 838M

D0 Male Metric 24° Light Series – Rigid Straight

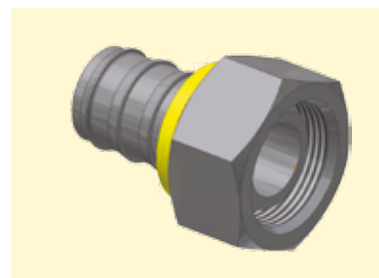
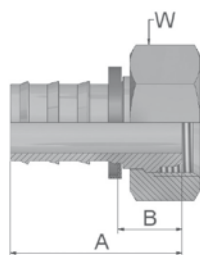
ISO 12151-2-S-L – CEL



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
3D082-8-4C	6	1/4	-4	6.4	M14x1.5	8	36	17	14
3D082-10-6C	10	3/8	-6	9.5	M16x1.5	10	41	18	17
3D082-12-6C	10	3/8	-6	9.5	M18x1.5	12	41	18	19
3D082-15-8C	12	1/2	-8	12.7	M22x1.5	15	49	22	22
3D082-18-10C	16	5/8	-10	15.9	M26x1.5	18	58	21	27

C3 Female Metric Light Series – Swivel Straight (Ball Nose)

DKL



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
3C382-6-4C	6	1/4	-4	6.4	M12x1.5	6	35	16	14
3C382-8-4C	6	1/4	-4	6.4	M14x1.5	8	33	14	17
3C382-10-4C	6	1/4	-4	6.4	M16x1.5	10	36	16	19
3C382-10-6C	10	3/8	-6	9.5	M16x1.5	10	39	16	19
3C382-12-6C	10	3/8	-6	9.5	M18x1.5	12	38	15	22
3C382-15-8C	12	1/2	-8	12.7	M22x1.5	15	44	17	27
3C382-18-10C	16	5/8	-10	15.9	M26x1.5	18	54	17	32
3C382-22-12C	19	3/4	-12	19.0	M30x2	22	57	20	36
3C382-28-16C	25	1	-16	25.4	M36x2	28	58	22	41

Also available in steel. Details can be found in CAT 4400/UK

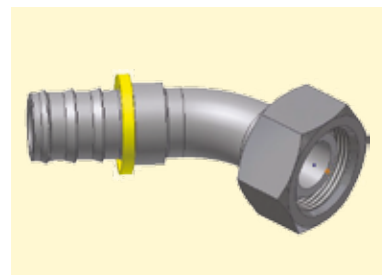
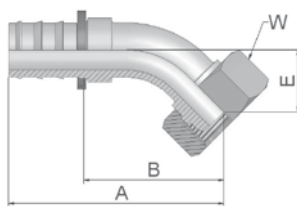
Approved **fitting series** for hose types:

B: Brass; **K**: Without plastic ring; **SM**: Metric Hexagon

82  801Plus 804 821FR 830M 831 836 837BM 837PU 838M

C4 Female Metric Light Series – Swivel 45° Elbow (Ball Nose)

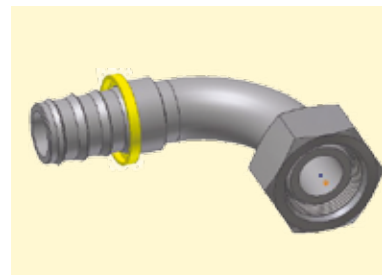
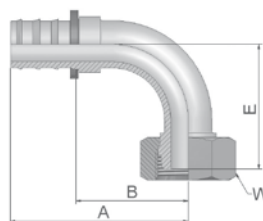
DKL 45°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
3C482-8-4C	6	1/4	-4	6.4	M14x1.5	8	49	30	14	17
3C482-10-6C	10	3/8	-6	9.5	M16x1.5	10	59	36	19	19
3C482-12-6C	10	3/8	-6	9.5	M18x1.5	12	58	35	18	22
3C482-15-8C	12	1/2	-8	12.7	M22x1.5	15	69	42	20	27

C5 Female Metric Light Series – Swivel 90° Elbow (Ball Nose)

DKL 90°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
3C582-6-4C	6	1/4	-4	6.4	M12x1.5	6	41	23	29	14
3C582-8-4C	6	1/4	-4	6.4	M14x1.5	8	41	23	29	17
3C582-10-4C	6	1/4	-4	6.4	M16x1.5	10	43	23	31	19
3C582-10-6C	10	3/8	-6	9.5	M16x1.5	10	49	27	35	19
3C582-12-6C	10	3/8	-6	9.5	M18x1.5	12	49	27	34	22
3C582-15-8C	12	1/2	-8	12.7	M22x1.5	15	65	38	39	27
3C582-18-10C	16	5/8	-10	15.9	M26x1.5	18	74	37	43	32
3C582-22-12C	19	3/4	-12	19.1	M30x2	22	88	52	53	36
3C582-28-16C	25	1	-16	25.4	M36x2	28	99	63	70	41

Also available in steel. Details can be found in CAT 4400/UK

Approved **fitting series** for hose types:

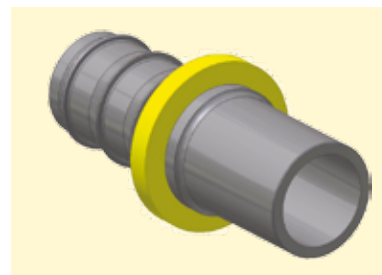
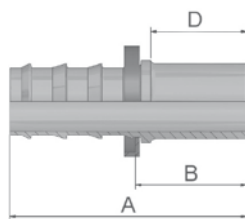
B: Brass; K: Without plastic ring; SM: Metric Hexagon

82  801Plus 804 821FR 830M 831 836 837BM 837PU 838M

1D

Metric Standpipe Light Series – Rigid Straight

ISO 8434-1 – BEL



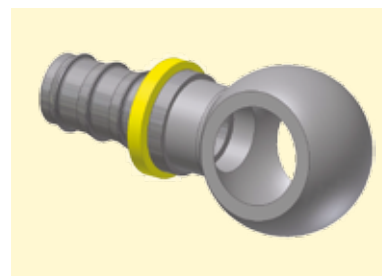
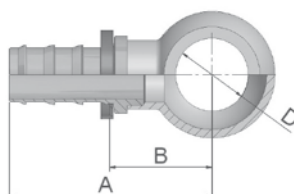
XXXXX-XX-XX Part Number 	Hose I.D.				Tube O.D. mm	A mm	B mm	D mm
	DN	Inch	Size	mm				
31D82-6-4C	6	1/4	-4	6.4	6	44	25	22
31D82-8-4C	6	1/4	-4	6.4	8	44	25	22
31D82-10-6C	10	3/8	-6	9.5	10	49	26	23
31D82-12-6C	10	3/8	-6	9.5	12	49	27	23
31D82-12-8C	12	1/2	-8	12.7	12	54	27	23
31D82-15-8C	12	1/2	-8	12.7	15	55	29	25
31D82-18-10C	16	5/8	-10	15.9	18	67	30	26
31D82-22-12C	19	3/4	-12	19.1	22	69	32	28

Attention: For assembly of EO-2-functional nut or nut and progressive ring use the EO-pre-assembly body.

49

Metric Banjo Straight

DIN 7642



XXXXX-XX-XX Part Number 	Hose I.D.				A mm	B mm	D mm
	DN	Inch	Size	mm			
34982-10-4C	6	1/4	-4	6.4	39	20	10
34982-14-4C	6	1/4	-4	6.4	42	23	14
34982-14-6C	10	3/8	-6	9.5	47	24	14
34982-16-6C	10	3/8	-6	9.5	49	26	16

Also available in steel. Details can be found in CAT 4400/UK

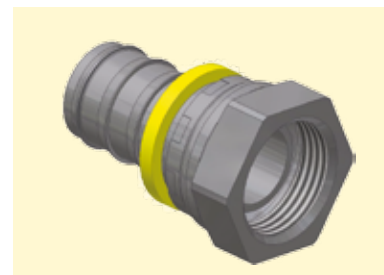
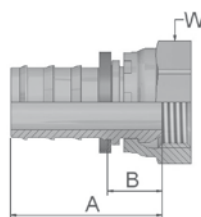
Approved **fitting series** for hose types:

B: Brass; **K:** Without plastic ring; **SM:** Metric Hexagon

82  801Plus 804 821FR 830M 831 836 837BM 837PU 838M

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

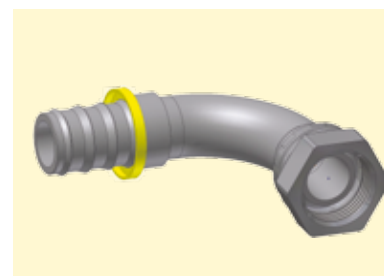
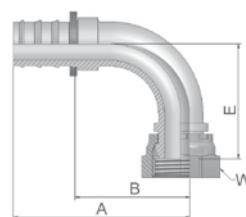
BS5200-A – DKR



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
39282-4-4C	6	1/4	-4	6.4	1/4x19	33	14	19
39282-6-6C	10	3/8	-6	9.5	3/8x19	40	17	22
39282-8-8C	12	1/2	-8	12.7	1/2x14	43	16	27
39282-12-12C	19	3/4	-12	19.1	3/4x14	56	19	32

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

BS 5200-B – DKR 90°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
3B282-4-4C	6	1/4	-4	6.4	1/4x19	42	23	28	19
3B282-6-6C	10	3/8	-6	9.5	3/8x19	49	27	33	22
3B282-8-8C	12	1/2	-8	12.7	1/2x14	60	34	40	27
3B282-12-12C	19	3/4	-12	19.1	3/4x14	83	46	53	32

Also available in steel. Details can be found in CAT 4400/UK

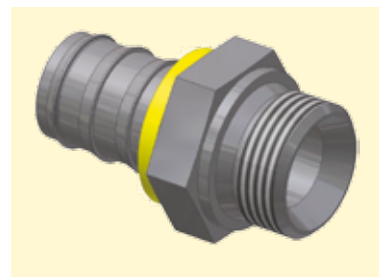
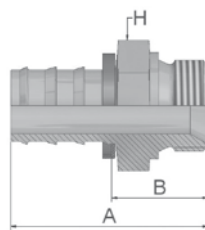
Approved **fitting series** for hose types:

B: Brass; K: Without plastic ring; SM: Metric Hexagon

82 801Plus 804 821FR 830M 831 836 837BM 837PU 838M

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

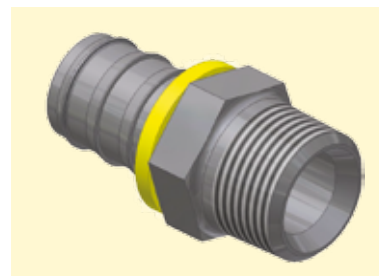
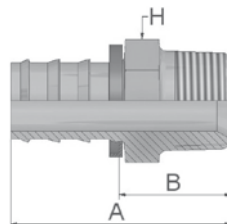
BS5200 – AGR



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	H mm
	DN	Inch	Size	mm				
3D982-2-4C	6	1/4	-4	6.4	1/8x28	36	17	14
3D982-4-4C	6	1/4	-4	6.4	1/4x19	41	23	19
3D982-4-6C	10	3/8	-6	9.5	1/4x19	44	21	19
3D982-6-6C	10	3/8	-6	9.5	3/8x19	45	23	22
3D982-8-8C	12	1/2	-8	12.7	1/2x14	53	27	27
3D982-8-10C	16	5/8	-10	15.9	1/2x14	62	25	27
3D982-12-12C	19	3/4	-12	19.1	3/4x14	65	28	32

91 Male BSP Taper Pipe – Rigid Straight

BS5200 – AGR-K



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	H mm
	DN	Inch	Size	mm				
39182-4-4C	6	1/4	-4	6.4	1/4x19	40	21	14
39182-4-6C	10	3/8	-6	9.5	1/4x19	44	21	14
39182-6-6C	10	3/8	-6	9.5	3/8x19	45	22	19
39182-8-8C	12	1/2	-8	12.7	1/2x14	55	28	22
39182-12-12C	19	3/4	-12	19.1	3/4x14	69	32	30

Also available in steel. Details can be found in CAT 4400/UK

Approved **fitting series** for hose types:

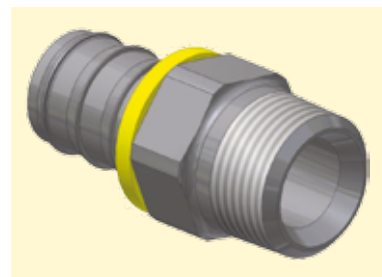
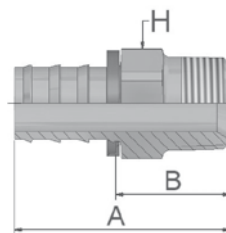
B: Brass; **K**: Without plastic ring; **SM**: Metric Hexagon

82  801Plus 804 821FR 830M 831 836 837BM 837PU 838M

01

Male NPTF Pipe Rigid – Straight

SAE J476A / J516 – AGN

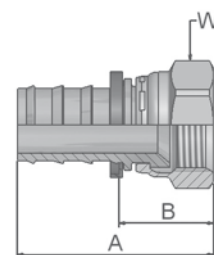


XXXXX-XX-XX	Hose I.D.				Thread BSP	A	B	H
Part Number	DN	Inch	Size	mm		mm	mm	mm inch
30182-4-4C	6	1/4	-4	6.4	1/4x18	40	21	9/16
30182-8-4C-SM	6	1/4	-4	6.4	1/2x14	48	29	22
30182-6-6C-SM	10	3/8	-6	9.5	3/8x18	45	23	19
30182-8-8C	12	1/2	-8	12.7	1/2x14	55	29	7/8
30182-12-12C-SM	19	3/4	-12	19.1	3/4x14	66	30	27
30182-16-16C-SM	25	1	-16	25.4	1x11-1/2	78	41	36

06/68

Female – JIC 37° SAE 45° Dual Flare Swivel – Straight

ISO12151-5-SWS – DKJ



XXXXX-XX-XX	Hose I.D.				Thread UNF	A	B	W
Part Number	DN	Inch	Size	mm		mm	mm	mm
30682-4-4C-SM	6	1/4	-4	6.4	7/16x20	40	21	14
30682-6-6C-SM	10	3/8	-6	9.5	9/16x18	45	22	19
36882-8-6C-SM	10	3/8	-6	9.5	3/4x16	47	24	22
36882-8-8C-SM	12	1/2	-8	12.7	3/4x16	51	25	22
36882-10-10C-SM	16	5/8	-10	15.9	7/8x14	64	28	27
30682-12-12C-SM	19	3/4	-12	19.1	1-1/16x12	67	30	32
30682-16-16C-SM	25	1	-16	25.4	1-5/16x12	70	33	41

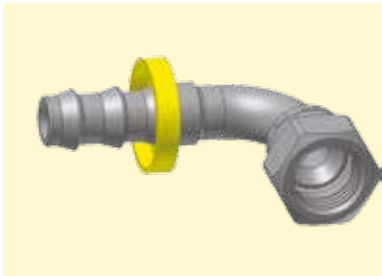
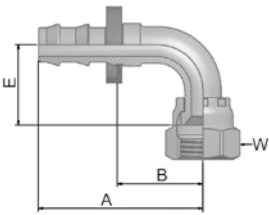
Also available in steel. Details can be found in CAT 4400/UK

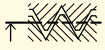
Approved **fitting series** for hose types:

B: Brass; K: Without plastic ring; SM: Metric Hexagon

82 801Plus 804 821FR 830M 831 836 837BM 837PU 838M

**39/3W Female JIC 37°
SAE 45° – Dual Flare
Swivel Female 90° Elbow**
ISO 12151-5-SWES – DKJ 90°



XXXXX-XX-XX Part Number 	 Hose I.D.				 Thread UNF	A mm	B mm	E mm	 W mm
	DN	Inch	Size	mm					
33W82-4-4C-SM	6	1/4	-4	6.4	7/16x20	39	20	21	17
33982-6-6C-SM	10	3/8	-6	9.5	9/16x18	47	25	23	19
33W82-8-8C-SM	12	1/2	-8	12.7	3/4x16	55	29	28	22

Also available in steel. Details can be found in CAT 4400/UK

Approved **fitting series** for hose types:

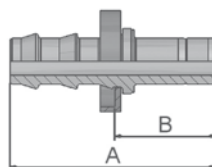
B: Brass; **K**: Without plastic ring; **SM**: Metric Hexagon

 801Plus 804 821FR 830M 831 836 837BM 837PU 838M

YW

Male Standpipe – Rigid – Straight – A-Lok

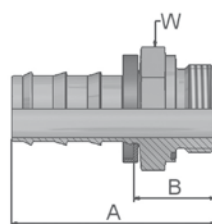
Metric Size Tube O.D. with Vee Notch



XXXXX-XX-XX Part Number 	 Hose I.D.				A mm	B mm
	DN	Inch	Size	mm		
3YW82-6-4C-ROUND	6	1/4	-4	6.4	39	20
3YW82-8-4C-ROUND	6	1/4	-4	6.4	40	21
3YW82-10-6C-ROUND	10	3/8	-6	9.5	44	22
3YW82-12-8C-ROUND	12	1/2	-8	12.7	54	27
3YW82-18-10C-ROUND	16	5/8	-10	15.9	65	29

AF

Male BSP Parallel Pipe Rigid – Straight (with O-ring Seal)



XXXXX-XX-XX Part Number 	 Hose I.D.				 Thread BSP	A mm	B mm	 W mm
	DN	Inch	Size	mm				
3AF82-4-4C	6	1/4	-4	6.4	1/4x19	39	20	19
3AF82-6-8C	12	1/2	-8	12.7	3/8x19	49	23	22
3AF82-8-8C	12	1/2	-8	12.7	1/2x14	53	26	27

Also available in steel. Details can be found in CAT 4400/UK

Approved **fitting series** for hose types:

B: Brass; **K:** Without plastic ring; **SM:** Metric Hexagon

82  801Plus 804 821FR 830M 831 836 837BM 837PU 838M

Low-Pressure Hose 681DB

– the right solution for special applications and requirements

- Our hose 681DB is especially designed and approved for the railway market.
- Due to its tight bending radius and the fire resistant cover, hose type 681DB is the preferred solution for various low pressure hydraulic applications.
- Together with our range of stainless steel *No-Skive* fittings this combination fulfills even the most challenging customer demands.



Fitting Series 64

assembled with adjustable crimpers

The 681DB hose can be assembled with 1 pcs. stainless steel fittings on adjustable hose crimpers. Thanks to the *No-Skive* principle, the protective cover does not need to be removed before crimping and this ensures

user-friendly, clean and fast assembly.

Parker offers a comprehensive range of fitting end-configurations together with hose crimpers and assembly instructions.

This combination guarantees safe processing and a long service life of your hose assemblies.



TH8E-530



TH8E-380-BM



TH8-800-BM

Railway

681DB



No-Skive 2TE
DIN EN 854-2TE
(with approvals for rail transportation)

Hose Pressure Ratings

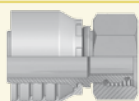
	Hose	Working Pressure (MPa) in Size													Temp.	Construction	Standard
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48			
Railway	681DB		7.5	8.8	8.3	5.8	5.0	4.5	4.0						-40/+100	2 braids, fibre	DIN EN854-2TE

You can find details on these products in our catalogue CAT/4400/UK
Information about standard products or non-standard products can be found in the current price list.
Dimensions shown may be changed at any time without prior notice.

DIN – Metric

Page B2b-1 – B2b-4

CA B2b-1



Female Metric 24°
Light Series with O-Ring
Swivel – Straight
ISO 12151-2-SWS-L – DKOL

CE B2b-1



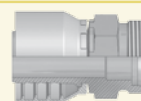
Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow
ISO 12151-2-SWE 45°-L – DKOL 45°

CF B2b-2



Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow
ISO 12151-2-SWE-L – DKOL 90°

D0 B2b-2

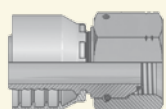


Male Metric 24°
Light Series – Rigid
Straight
ISO 12151-2-S-L – CEL

BSP

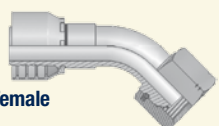
Page B1b-5 – B1b-6

EA B2b-3



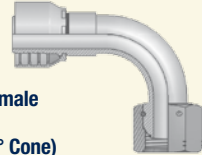
BSP Swivel Female
with O-Ring (60° Cone)
BS 5200 – ISO 12151-6 – DKOR

EB B2b-3



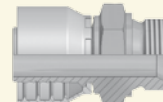
BSP Swivel Female
with O-Ring
45° Elbow (60° Cone)
BS 5200 – ISO 12151-6 – DKOR 45°

EC B2b-4



BSP Swivel Female
with O-Ring
90° Elbow (60° Cone)
BS 5200 – ISO 12151-6 – DKOR 90°

D9 B2b-4



Male BSP Parallel Pipe
Rigid – Straight (60° Cone)
BS5200 – AGR

Fittings Pressure Ratings

Fitting end connection	Description	Metric tube (mm) • Light series – L									
		Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	15	18	22	28	35	42
CA, CE, CF	DIN 20066 swivel female with O-ring, Form N	31.5	42.5	40.0	35.0	31.5	31.5	28.0	21.0	16.0	16.0
D0	DIN 20066 male stud, Form D	25.0	42.5	40.0	35.0	31.0	28.0	28.0	21.0	16.0	16.0

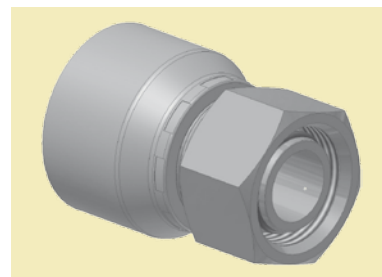
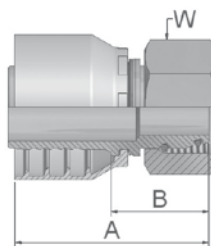
Fitting end connection	Description	Inch fittings (size)									
		Maximum working pressure (MPa) – safety factor 4:1									
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
EA, EB, EC	BSP swivel female with O-ring	40.0		40.0	35.0	35.0	31.5	25.0	20.0	16.0	12.5
D9	BSP male	63.0		55.0	43.0		35.0	28.0	25.0	21.0	21.0

Further end-configurations available on request.

CA

**Female Metric 24°
Light Series with O-Ring
Swivel – Straight**

ISO 12151-2-SWS-L – DKOL



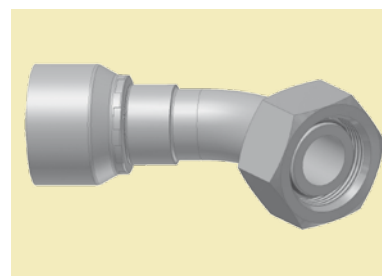
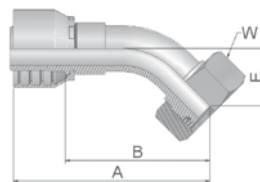
XXXXXX-XX-XX Part Number 	 Hose I.D.				 Thread metric	Tube O.D. mm	A mm	B mm	 W mm
	DN	Inch	Size	mm					
1CA64-8-4C	6	1/4	-4	6.4	M14x1.5	8	44	22	17
1CA64-10-5C	8	5/16	-5	7.9	M16x1.5	10	46	22	19
1CA64-12-6C	10	3/8	-6	9.5	M18x1.5	12	45	22	22
1CA64-15-8C	12	1/2	-8	12.7	M22x1.5	15	50	26	27
1CA64-18-10C	16	5/8	-10	15.9	M26x1.5	18	50	25	32
1CA64-22-12C	19	3/4	-12	19.1	M30x2	22	56	31	36
1CA64-28-16C	25	1	-16	25.4	M36x2	28	62	33	41

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

CE

**Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow**

ISO 12151-2-SWE 45°-L – DKOL
45°



XXXXXX-XX-XX Part Number 	 Hose I.D.				 Thread metric	Tube O.D. mm	A mm	B mm	E mm	 W mm
	DN	Inch	Size	mm						
1CE64-8-4C	6	1/4	-4	6.4	M14x1.5	8	57	35	16	17
1CE64-10-5C	8	5/16	-5	7.9	M16x1.5	10	68	43	15	19
1CE64-12-6C	10	3/8	-6	9.5	M18x1.5	12	68	45	19	22
1CE64-15-8C	12	1/2	-8	12.7	M22x1.5	15	71	47	22	27
1CE64-18-10C	16	5/8	-10	15.9	M26x1.5	18	75	50	23	32
1CE64-22-12C	19	3/4	-12	19.1	M30x2	22	88	63	26	36
1CE64-28-16C	25	1	-16	25.4	M36x2	28	112.5	83	33	41

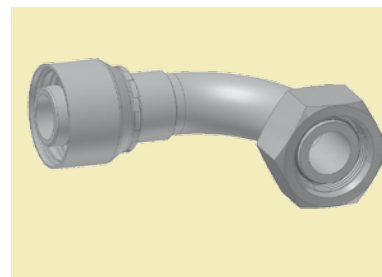
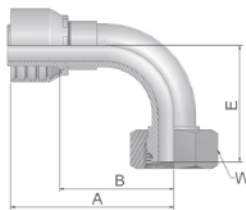
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

Approved **fitting series** for hose type:

 **681DB**

CF Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow

ISO 12151-2-SWE-L – DKOL 90°

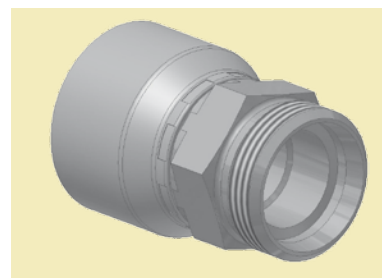
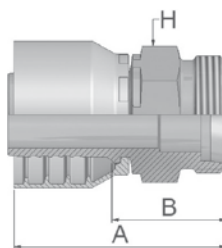


XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1CF64-8-4C	6	1/4	-4	6.4	M14x1.5	8	49.5	27	28.5	17
1CF64-10-5C	8	5/16	-5	7.9	M16x1.5	10	61	37	29	19
1CF64-12-6C	10	3/8	-6	9.5	M18x1.5	12	58	35	36	22
1CF64-15-8C	12	1/2	-8	12.7	M22x1.5	15	61	37	42.5	27
1CF64-18-10C	16	5/8	-10	15.9	M26x1.5	18	66	41	45	32
1CF64-22-12C	19	3/4	-12	19.1	M30x2	22	80	54.5	55	36
1CF64-28-16C	25	1	-16	25.4	M36x2	28	101.5	72	71	41

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

D0 Male Metric 24° Light Series – Rigid Straight

ISO 12151-2-S-L – CEL



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
1D064-8-4C	6	1/4	-4	6.4	M14x1.5	8	44	22	14
1D064-10-5C	8	5/16	-5	7.9	M16x1.5	10	48	23.5	17
1D064-12-6C	10	3/8	-6	9.5	M18x1.5	12	47	24	19
1D064-15-8C	12	1/2	-8	12.7	M22x1.5	15	49.5	26	22
1D064-18-10C	16	5/8	-10	15.9	M26x1.5	18	54	29	27
1D064-22-12C	19	3/4	-12	19.1	M30x2	22	59	33	30
1D064-28-16C	25	1	-16	25.4	M36x2	28	64.5	35	36

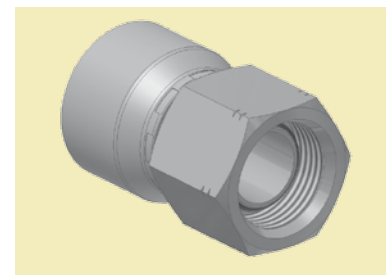
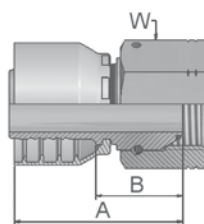
Approved **fitting series** for hose type:

681DB

EA

BSP Swivel Female with O-Ring (60° Cone)

BS 5200 – ISO 12151-6 – DKOR

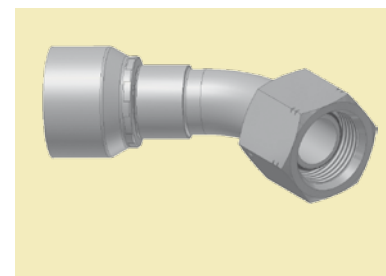
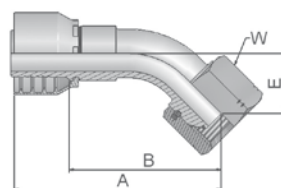


XXXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1EA64-4-4C	6	1/4	-4	6.4	1/4 x 19	8	40	17	19
1EA64-6-6C	10	3/8	-6	9.5	3/8 x 19	12	43	20	22
1EA64-8-8C	12	1/2	-8	12.7	1/2 x 14	15	45	22	27
1EA64-10-10C	16	5/8	-10	15.9	5/8 x 14	18	46	21	30
1EA64-12-12C	19	3/4	-12	19.1	3/4 x 14	22	49	23	32
1EA64-16-16C	25	1	-16	25.4	1 x 11	28	61	31	41

EB

BSP Swivel Female with O-Ring 45° Elbow (60° Cone)

BS 5200 – ISO 12151-6 – DKOR
45°



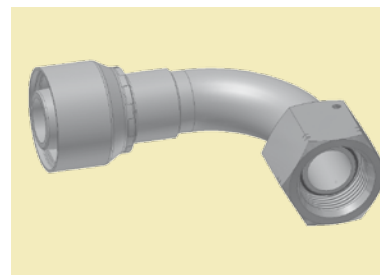
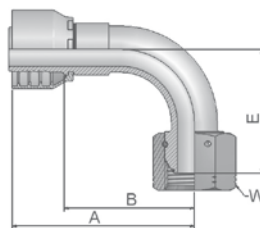
XXXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1EB64-4-4C	6	1/4	-4	6.4	1/4 x 19	8	57	34	13.5	19
1EB64-6-6C	10	3/8	-6	9.5	3/8 x 19	12	68.5	46	17	22
1EB64-8-8C	12	1/2	-8	12.7	1/2 x 14	15	71	48	20	27
1EB64-10-10C	16	5/8	-10	15.9	5/8 x 14	18	75	50	22	30
1EB64-12-12C	19	3/4	-12	19.1	3/4 x 14	22	88.5	63	27	32
1EB64-16-16C	25	1	-16	25.4	1 x 11	28	112	83	33	41

Approved **fitting series** for hose type:

 **681DB**

EC BSP Swivel Female with O-Ring 90° Elbow (60° Cone)

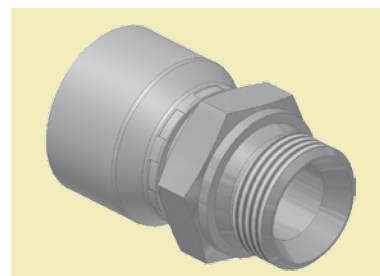
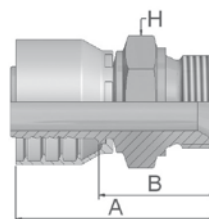
BS 5200 – ISO 12151-6 – DKOR
90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1EC64-4-4C	6	1/4	-4	6.4	1/4 x 19	8	50	26.5	24	19
1EC64-6-6C	10	3/8	-6	9.5	3/8 x 19	12	60	38	33	22
1EC64-8-8C	12	1/2	-8	12.7	1/2 x 14	15	63	40	40	27
1EC64-10-10C	16	5/8	-10	15.9	5/8 x 14	18	70	45	44	30
1EC64-12-12C	19	3/4	-12	19.1	3/4 x 14	22	79	53.5	55	32
1EC64-16-16C	25	1	-16	25.4	1 x 11	28	104.5	74.5	71	41

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
1D964-4-4C	6	1/4	-4	6.4	1/4 x 19	8	49	27	19
1D964-6-6C	10	3/8	-6	9.5	3/8 x 19	12	54	31	22
1D964-8-8C	12	1/2	-8	12.7	1/2 x 14	15	57	33.5	27
1D964-10-10C	16	5/8	-10	15.9	5/8 x 14	18	60	35	30
1D964-12-12C	19	3/4	-12	19.1	3/4 x 14	22	62	36	32
1D964-16-16C	25	1	-16	25.4	1 x 11	28	72	42	41

Approved **fitting series** for hose type:

 681DB



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



Hydraulic Hose Fittings in Stainless Steel

Medium pressure



ENGINEERING YOUR SUCCESS.

Medium-Pressure Hoses and Fittings

The perfect range for the more demanding market requirements



This medium-pressure hose range contains the Elite No-Skive compact hydraulic hoses exceeding ISO and EN specifications and the

classic No-Skive hydraulic hoses according to ISO, EN and SAE specifications. This hose range is complemented by a full selection

of compatible No-Skive fittings in steel and stainless steel.

- Extended range of working temperatures:
-50 °C up to +150 °C
- Selected hoses feature nitrile inner tubes suitable for mineral and biodegradable oils
- Full range of fluid compatibility; oil, water, phosphate ester etc.
- The development of the new chlorine-free 462CLF with pure chlorine free tube and cover compound is our contribution for ensuring the sustainability of our planet. This hose type is environmental friendly from production to disposal.



- Using high quality compounds allows thin covers – less weight – long service life still assured
- High flexibility for easier installation and increased service life
- Small bend radii and light weight for applications where space and weight are determining factors
- High abrasion resistance hose covers superior to ISO 6945 requirements, extending service life
- High ozone-resistant cover compounds extending weathering and ageing resistance
- Parkrimp machines, portable or bench mounted for easy assembly operation – hose assemblies meet CE directives



- Complete No-Skive fitting technology across the full range of medium pressure hoses providing simpler, quicker and safer hose assembly

Parkrimp® *No-Skive*

The system for fast and leak-free assemblies

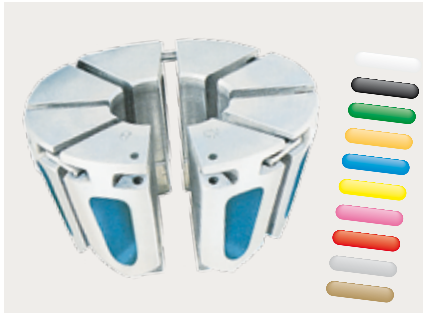
- No skiving tool needed
- No need to remove the cover
- Crimps one-piece fittings
- Parkalign positions the fittings in the dies perfectly every time
- Quick and easy: no gauges to set on the machine
- Portable machines for field repair
- Meets EN safety regulations

The perfect match



The complete system from one source. No-Skive hose, No-Skive fitting and crimping machine with world-wide guarantee and availability.

Parker's colour-coded die sets



No loose parts to mismatch or misplace – die set segments linked together. Die sets provide 360° evenly applied crimping forces for an ideal crimp result.

Parkalign®



Parker's exclusive Parkalign® positions the fitting in the dies perfectly every time.



Applications

The definitive hose range for all medium-pressure applications



Standard

301SN



No-Skive

DIN EN 853 2SN – ISO 1436 Type 2

302



WORLDWIDE *No-Skive*

DIN EN 853 2SN – ISO S 1436

421SN



No-Skive

DIN EN 853 1SN – ISO 1436 Type 1

422



WORLDWIDE *No-Skive*

ISO 1436 1SN

441



No-Skive

ISO 11237 Type R16 – SAE 100R16

451



No-Skive

ISO 11237 Type R17 – SAE 100R17

462



Elite Compact

DIN EN 857 2SC – ISO 11237 Type 2SC

492



Elite Compact

DIN EN 857 1SC – ISO 11237 Type 1SC

High abrasion resistance MSHA approved

451TC



No-Skive Tough Cover

ISO 11237 Type R17 – SAE 100R17

471TC / 472TC



No-Skive

DIN EN 857 2SC – ISO 11237 Type 2SC

Extreme abrasion resistance

462ST



Elite Super Tough Compact

DIN EN 857 2SC – ISO 11237 Type 2SC

492ST



Elite Super Tough Compact

DIN EN 857 1SC – ISO 11237 Type 1SC

Low / High temperature

426



No-Skive

SAE 100R1AT high temperature

436



No-Skive Compact

SAE 100R16 high temperature

461LT



Elite Compact

DIN EN 857 2SC low temperature

Phosphate Ester

304



No-Skive

Phosphate ester resistant hose

424



No-Skive

Phosphate ester resistant hose

Railway

421RH



No-Skive

Fire-retardant cover

441RH



No-Skive Compact

Fire-retardant cover

Water cleaning

463

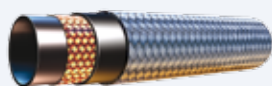


No-Skive Compact

High pressure water cleaning applications

Wire cover

421WC



No-Skive

Galvanised steel wire cover

Extremely flexible

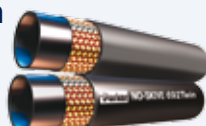
692



Elite Compact

Constant pressure, tight bend radius

692Twin



Elite Compact

Twin constant pressure, tight bend radius

Suction

811



No-Skive Suction and Return Line
SAE 100R4

881



No-Skive Suction and Return Line
SAE 100R4

You can find details on these products in our catalogue CAT/4400/UK

Information about standard products or non-standard products can be found in the current price list.
Dimensions shown may be changed at any time without prior notice.

Hose Pressure Ratings

	Hose	Working Pressure (MPa) in Size												Temp.	Construction	Standard	
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48			
Standard	421SN		22.5	21.5	18.0	16.0	13.0	10.5	8.8	6.3	5.0	4.0			-40/+100	1 braid, wire	DIN EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT
	422		22.5	21.5	18.0	16.0	13.0	10.5	8.8	6.3	5.0	4.0			-40/+100	1 braid, wire	DIN EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT
	301SN		40.0	35.0	33.0	27.5	25.0	21.5	18.5	12.5	9.0	8.0			-40/+100	2 braids, wire	DIN EN 853-2SN - SAE 100R2AT
	302		40.0	35.0	33.0	27.5	25.0	21.5	18.5	12.5	9.0	8.0			-40/+100	2 braids, wire	DIN EN 853-2SN - ISO 1436-2SN/R2AT - SAE 100R2AT
	441		35.0	29.7	28.0	24.5	19.2	15.7	14.0						-40/+125	1 braid, wire	ISO 11237-R16 - SAE 100R16
	451		21.0		21.0	21.0	21.0								-40/+100	1/2braid, wire	ISO 11237-R17 - SAE 100R17
	492		28.0	25.0	22.5	19.0	15.0	15.0	11.0	7.5					-40/+100	1 braid, wire	Exceeds DIN EN 857-1SC - ISO 11237-1SC
	462		42.5	40.0	35.0	31.0	28.0	28.0	21.0	17.2					-40/+100	2 braids, wire	Exceeds DIN EN 857-2SC - ISO 11237-2SC
High abrasion resistance MSHA approved	451TC		21.0		21.0	21.0	21.0	21.0							-40/+100	1/2braid, wire	ISO 11237-R17 - SAE 100R17
	471TC		40.0	38.0	35.0	29.7	25.0	21.5	17.5						-40/+100	2 braids, wire	DIN EN 857-2SC - ISO 11237-2SC
	472TC									15.7	12.5	9.0			-40/+100	2 braids, wire	DIN EN 857-2SC - ISO 11237-2SC
Extreme abrasion resistance	492ST		28.0	25.0	22.5	19.0	15.0	15.0	11.0	7.5					-40/+100	1 braid, wire	DIN EN 857-1SC - ISO 11237-1SC
	462ST		42.5	40.0	35.0	31.0	28.0	28.0	21.0	17.2					-40/+100	2 braids, wire	DIN EN 857-2SC - ISO 11237-2SC
Low / High temperature	426		19.2		15.7	14.0	10.5	8.7	7.0	4.3	3.5	2.8			-46/+150	1 braid, wire	SAE 100R1AT
	436				27.5	24.0	19.0	15.5	13.8						-48/+150	2 braids, wire	SAE 100R16
	461LT		42.5	40.0	35.0	31.0	28.0	28.0	21.0						-50/+100	2 braids, wire	Exceeds DIN EN 857-2SC - ISO 11237-2SC
Phosphate Ester	424								6.9	4.3	3.5	2.4			-40/+80	1 braid, wire	SAE 100R1AT
	304		34.5		27.5	24.0		15.5	13.8	11.2	8.8	7.8			-40/+80	2 braids, wire	SAE 100R2AT
Railway	421RH									6.3	5.0	4.0			-40/+100	1 braid, wire	DIN EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT
	441RH		35.0	29.7	28.0	24.5	19.2	15.7	14.0						-40/+125	1 braid, wire	ISO 11237-R16 - SAE 100R16
Water cleaning	463			40.0	40.0	35.0									max.+120	2 braids, wire	-
Wire cover	421WC		19.0		15.5	13.8		8.8	6.9						-40/+120	1 braid, wire	ISO 1436-1SN/R1AT - SAE 100R1AT
Extremely flexible	692		21.0	21.0	21.0	21.0	21.0								-40/+100	1/2 braids, wire	Exceeds SAE 100R17
	692Twin		21.0	21.0	21.0	21.0	21.0								-40/+100	1/2 braids, wire	Exceeds SAE 100R17
Suction	811							2.1	1.7	1.4	1.0	0.7	0.4	0.4	-40/+100	1 braid,1steelspiral	SAE 100R4
	881							2.1	1.7	1.4	1.0	0.7	0.4		-40/+121	1 braid,1steelspiral	SAE 100R4

DIN – Metric

Page Cb-1 – Cb-3

CA Cb-1 Female Metric 24° Light Series with O-Ring Swivel – Straight ISO 12151-2-SWS-L – DKOL	CF Cb-1 Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow ISO 12151-2-SWE-L – DKOL 90°	D0 Cb-2 Male Metric 24° Light Series – Rigid Straight ISO 12151-2-S-L – CEL	C9 Cb-2 Female Metric 24° – Swivel Heavy Series with O-Ring Straight ISO 12151-2-SWS-S – DKOS
1C Cb-3 Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow ISO 12151-2-SWE-S – DKOS 90°	D2 Cb-3 Male Metric 24° – Rigid Heavy Series – Straight ISO 12151-2-S-S – CES		

BSP

Page Cb-4

92 Cb-4 Female BSP Parallel Pipe Swivel – Straight (60° Cone) BS5200-A – DKR	B2 Cb-4 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) BS 5200-B – DKR 90°
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SAE

Page Cb-5

06/68 Cb-5 Female – JIC 37° SAE 45° Dual Flare Swivel – Straight ISO12151-5-SWS – DKJ	39/3W Cb-5 Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow ISO 12151-5-SWES – DKJ 90°
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ORFS

Page Cb-6

JC Cb-6 Female ORFS Swivel – Straight Short ISO 12151-1 – SWSA SAE J516 – ORFS	J9 Cb-6 Female ORFS – Swivel 90° Elbow – Short Drop ISO 12151-1 – SWES SAE J516 – ORFS 90°
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Further end-configurations available on request.

Fittings Pressure Ratings

Fitting end connection	Description	Inch fittings (size) Maximum working pressure (MPa) – safety factor 4:1									
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
92, B2	BSP swivel female	63.0		55.0	43.0	37.5	35.0	28.0	25.0	21.0	21.0
06/68, 39/3W	SAE (JIC) 37° swivel female	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0
JC, J9	ORFS swivel female	41.0		41.0	41.0	41.0	41.0	41.0	27.5	27.5	

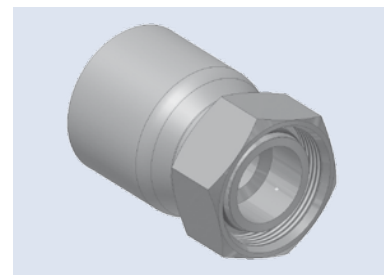
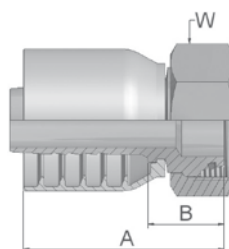
Fitting end connection	Description	Metric tube (mm) • Light series – L Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	15	18	22	28	35	42
CA, CF	DIN 20066 swivel female with O-ring, Form N	31.5	42.5	40.0	35.0	31.5	31.5	28.0	21.0	16.0	16.0
D0	DIN 20066 male stud, Form D	25.0	42.5	40.0	35.0	31.0	28.0	28.0	21.0	16.0	16.0

Fitting end connection	Description	Metric tube (mm) • Heavy series – S Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	14	16	20	25	30	38
C9, 1C	Swivel female DIN 20066:2002-10 with O-ring, Form P	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0
D2	Male stud	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0

CA

**Female Metric 24°
Light Series with O-Ring
Swivel – Straight**

ISO 12151-2-SWS-L – DKOL



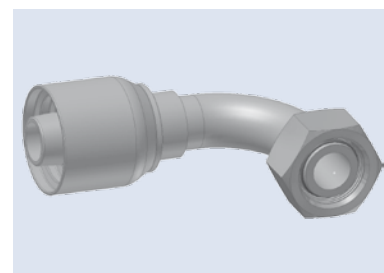
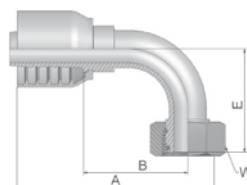
XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1CA43-6-4C	6	1/4	-4	6.4	M12x1.5	6	45	22	14
1CA43-8-4C	6	1/4	-4	6.4	M14x1.5	8	46	22	17
1CA43-10-4C	6	1/4	-4	6.4	M16x1.5	10	44	22	19
1CA43-10-5C	8	5/16	-5	7.9	M16x1.5	10	46	22	19
1CA43-12-5C	8	5/16	-5	7.9	M18x1.5	12	47	22	22
1CA43-10-6C	10	3/8	-6	9.5	M16x1.5	10	48	21	19
1CA43-12-6C	10	3/8	-6	9.5	M18x1.5	12	49	19	22
1CA43-15-8C	12	1/2	-8	12.7	M22x1.5	15	56	21	27
1CA43-18-10C	16	5/8	-10	15.9	M26x1.5	18	61	22	32
1CA43-22-10C	16	5/8	-10	15.9	M30x2	22	63	24	36
1CA43-18-12C	19	3/4	-12	19.1	M26x1.5	18	65	26	32
1CA43-22-12C	19	3/4	-12	19.1	M30x2	22	63	24	36
1CA43-28-16C	25	1	-16	25.4	M36x2	28	78	33	41
1CA43-35-20C	31	1 1/4	-20	31.8	M45x2	35	82	35	50

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

CF

**Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow**

ISO 12151-2-SWE-L – DKOL 90°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1CF43-6-4C	6	1/4	-4	6.4	M12x1.5	6	55	33	33	14
1CF43-8-4C	6	1/4	-4	6.4	M14x1.5	6	51	27	29	17
1CF43-10-4C	6	1/4	-4	6.4	M16x1.5	6	50	28	29	19
1CF43-10-5C	8	5/16	-5	7.9	M16x1.5	8	61	37	29	19
1CF43-10-6C	10	3/8	-6	9.5	M16x1.5	10	65	37	35	19
1CF43-12-6C	10	3/8	-6	9.5	M18x1.5	10	64	35	36	22
1CF43-15-8C	12	1/2	-8	12.7	M22x1.5	12	72	37	43	27
1CF43-18-10C	16	5/8	-10	15.9	M26x1.5	16	81	41	45	32
1CF43-22-12C	19	3/4	-12	19.1	M30x2	20	89	49	55	36
1CF43-28-16C	25	1	-16	25.4	M36x2	25	114	68	73	41
1CF43-35-20C	31	1 1/4	-20	31.8	M45x2	32	130	83	79	50
1CF43-42-20C	31	1 1/4	-20	31.8	M52x2	32	130	83	81	60

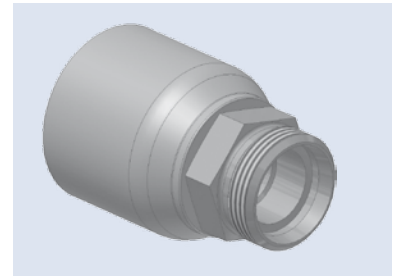
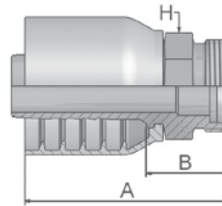
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

Approved **fitting series** for hose types:

	301SN	302	304	421SN	421WC	422	424	426	436	441	451	451TC	471TC	472TC	811	881
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D0 Male Metric 24° Light Series – Rigid Straight

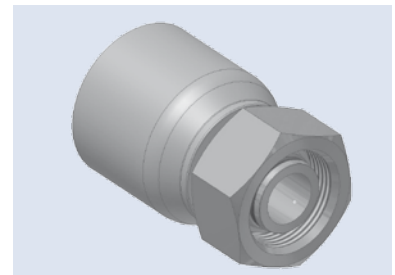
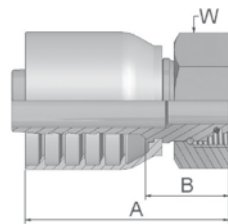
ISO 12151-2-S-L – CEL



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
1D043-8-4C	6	1/4	-4	6.4	M14x1.5	8	45	22	14
1D043-10-5C	8	5/16	-5	7.9	M16x1.5	10	48	24	17
1D043-12-6C	10	3/8	-6	9.5	M18x1.5	12	52	23	19
1D043-15-8C	12	1/2	-8	12.7	M22x1.5	15	61	26	22
1D043-18-10C	16	5/8	-10	15.9	M26x1.5	18	68	28	27
1D043-22-12C	19	3/4	-12	19.1	M30x2	22	70	31	30
1D043-28-16C	25	1	-16	25.4	M36x2	28	78	33	36
1D043-35-20C	31	1 1/4	-20	31.8	M45x2	35	85	38	46
1D043-42-24C	38	1 1/2	-24	38.1	M52x2	42	77	39	55

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1C943-8-4C	6	1/4	-4	6.4	M16x1.5	8	45	23	19
1C943-10-4C	6	1/4	-4	6.4	M18x1.5	10	45	23	22
1C943-12-5C	8	5/16	-5	7.9	M20x1.5	12	49	25	24
1C943-10-6C	10	3/8	-6	9.5	M18x1.5	10	50	21	22
1C943-12-6C	10	3/8	-6	9.5	M20x1.5	12	52	22	24
1C943-14-6C	10	3/8	-6	9.5	M22x1.5	14	50	21	27
1C943-16-8C	12	1/2	-8	12.7	M24x1.5	16	59	24	30
1C943-16-10C	16	5/8	-10	15.9	M24x1.5	16	66	27	30
1C943-20-10C	16	5/8	-10	15.9	M30x2	20	66	27	36
1C943-20-12C	19	3/4	-12	19.1	M30x2	20	66	27	36
1C943-25-12C	19	3/4	-12	19.1	M36x2	25	68	29	46
1C943-25-16C	25	1	-16	25.4	M36x2	25	78	33	46
1C943-30-16C	25	1	-16	25.4	M42x2	30	80	33	50
1C943-38-20C	31	1 1/4	-20	31.8	M52x2	38	80	33	60

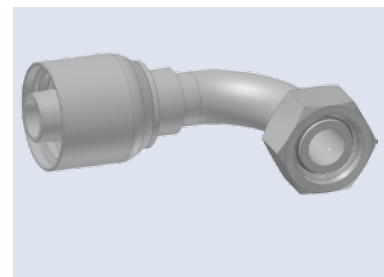
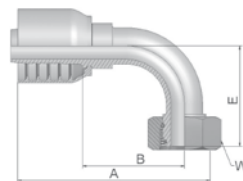
Approved **fitting series** for hose types:

 301SN 302 304 421SN 421WC 422 424 426 436 441 451 451TC 471TC 472TC 811 881

1C

Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

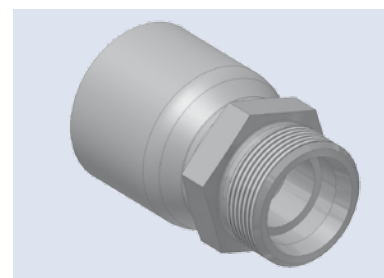
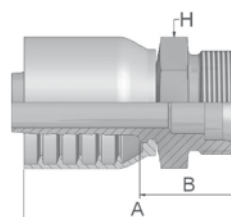


XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
11C43-8-4C	6	1/4	-4	6.4	M16x1.5	8	52	29	30	19
11C43-10-4C	6	1/4	-4	6.4	M18x1.5	10	55	33	30	22
11C43-12-5C	8	5/16	-5	7.9	M20x1.5	12	61	37	33	24
11C43-12-6C	10	3/8	-6	9.5	M20x1.5	12	58	29	39	24
11C43-14-6C	10	3/8	-6	9.5	M22x1.5	14	67	37	37	27
11C43-16-8C	12	1/2	-8	12.7	M24x1.5	16	72	37	45	30
11C43-20-10C	16	5/8	-10	15.9	M30x2	20	77	40	50	36
11C43-25-12C	19	3/4	-12	19.1	M36x2	25	89	49	59	46
11C43-30-16C	25	1	-16	25.4	M42x2	30	115	68	76	50

D2

Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



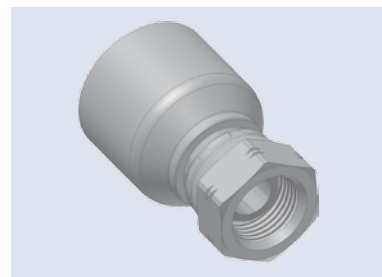
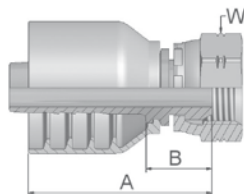
XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
1D243-10-4C	6	1/4	-4	6.4	M18x1.5	10	50	26	19
1D243-12-5C	8	5/16	-5	7.9	M20x1.5	12	50	26	22
1D243-14-6C	10	3/8	-6	9.5	M22x1.5	14	57	28	22
1D243-16-8C	12	1/2	-8	12.7	M24x1.5	16	62	28	24
1D243-20-10C	16	5/8	-10	15.9	M30x2	20	72	32	30
1D243-25-12C	19	3/4	-12	19.1	M36x2	25	74	35	36
1D243-30-16C	25	1	-16	25.4	M42x2	30	85	40	46

Approved **fitting series** for hose types:

	301SN	302	304	421SN	421WC	422	424	426	436	441	451	451TC	471TC	472TC	811	881
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92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

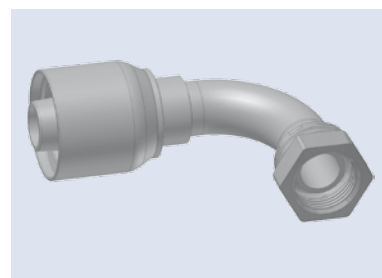
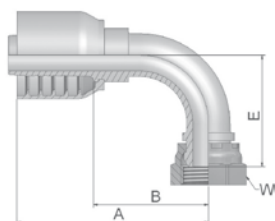
BS5200-A – DKR



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
19243-4-4C	6	1/4	-4	6.4	1/4x19	43	19	19
19243-6-6C	10	3/8	-6	9.5	3/8x19	49	20	22
19243-8-8C	12	1/2	-8	12.7	1/2x14	57	22	27
19243-10-10C	16	5/8	-10	15.9	5/8x14	57	21	30
19243-12-12C	19	3/4	-12	19.1	3/4x14	61	22	32
19243-16-16C	25	1	-16	25.4	1x11	72	25	41
19243-20-20C	31	1 1/4	-20	31.8	1 1/4x11	79	32	50

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

BS 5200-B – DKR 90°



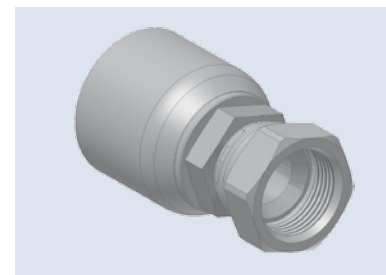
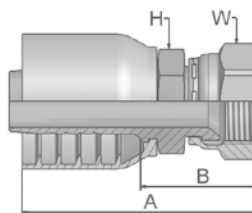
XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1B243-4-4C	6	1/4	-4	6.4	1/4x19	49	26	28	19
1B243-6-6C	10	3/8	-6	9.5	3/8x19	67	37	33	22
1B243-8-8C	12	1/2	-8	12.7	1/2x14	74	39	40	27
1B243-12-12C	19	3/4	-12	19.1	3/4x14	89	50	53	32
1B243-16-16C	25	1	-16	25.4	1x11	114	69	69	41

Approved **fitting series** for hose types:

	301SN	302	304	421SN	421WC	422	424	426	436	441	451	451TC	471TC	472TC	811	881
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06/68 Female – JIC 37° SAE 45° Dual Flare Swivel – Straight

ISO12151-5-SWS – DKJ

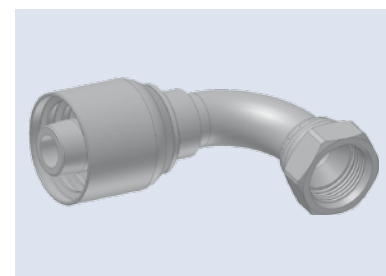
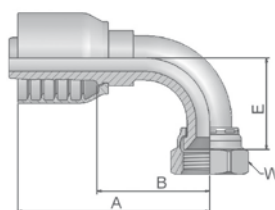


XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
16843-4-4C-SM	6	1/4	-4	6.4	7/16x20	51	29	14	17
10643-6-6C-SM	10	3/8	-6	9.5	9/16x18	58	29	17	19
16843-8-6C-SM	10	3/8	-6	9.5	3/4x16	61	32	17	22
16843-8-8C-SM	12	1/2	-8	12.7	3/4x16	67	32	22	22
10643-10-10C*	16	5/8	-10	15.9	7/8x14	75	35	24	27
10643-12-12C-SM	19	3/4	-12	19.1	1-1/16x12	80	41	27	32
10643-16-16C*	25	1	-16	25.4	1-5/16x12	92	47	36	41
10643-20-20C-SM	31	1 1/4	-20	31.8	1-5/8x12	100	53	46	50

* These fittings contain a dual seat that accepts both JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configurations only.

39/3W Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow

ISO 12151-5-SWES – DKJ 90°



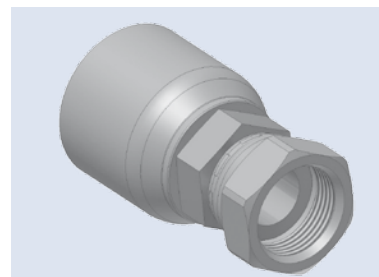
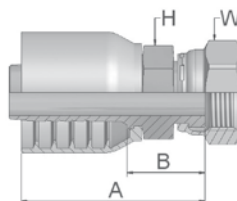
XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
13W43-4-4C-SM	6	1/4	-4	6.4	7/16x20	46	24	21	17
13943-6-6C-SM	10	3/8	-6	9.5	9/16x18	57	28	23	19
13W43-8-8C-SM	12	1/2	-8	12.7	3/4x16	66	32	29	22
13943-10-10C-SM	16	5/8	-10	15.9	7/8x14	83	42	16	27
13943-12-12C-SM	19	3/4	-12	19.1	1-1/16x12	89	50	48	32
13943-16-16C-SM	25	1	-16	25.4	1-5/16x12	109	64	55	41
13943-20-20C-SM	31	1 1/4	-20	31.8	1-5/8x12	129	82	70	50

Approved **fitting series** for hose types:

	301SN	302	304	421SN	421WC	422	424	426	436	441	451	451TC	471TC	472TC	811	881
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JC Female ORFS Swivel – Straight Short

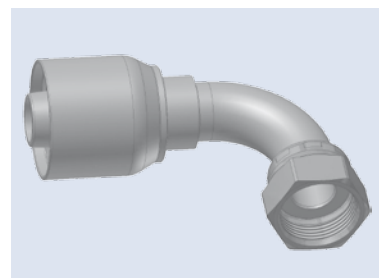
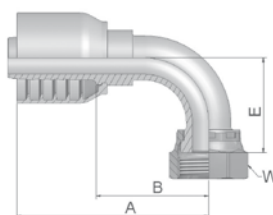
ISO 12151-1 – SWSA
SAE J516 – ORFS



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
1JC43-6-6C-SM	10	3/8	-6	9.5	11/16x16	49	20	19	22
1JC43-8-8C-SM	12	1/2	-8	12.7	13/16x16	56	22	22	24
1JC43-10-10C-SM	16	5/8	-10	15.9	1x14	64	24	24	30
1JC43-12-12C-SM	19	3/4	-12	19.1	1-3/16x12	68	29	32	36
1JC43-16-16C-SM	25	1	-16	25.4	1-7/16x12	80	35	36	41
1JC43-20-16C-SM	25	1	-16	25.4	1-11/16x12	79	34	41	50
1JC43-20-20C-SM	31	1 1/4	-20	31.8	1-11/16	85	36	50	50

J9 Female ORFS – Swivel 90° Elbow – Short Drop

ISO 12151-1 – SWES
SAE J516 – ORFS 90°



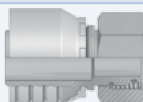
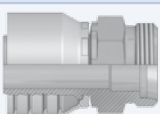
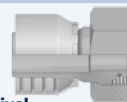
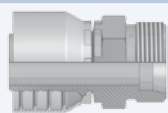
XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1J943-6-6C-SM	10	3/8	-6	9.5	11/16x16	58	29	23	22
1J943-8-8C-SM	12	1/2	-8	12.7	13/16x16	70	35	29	24
1J943-10-10C-SM	16	5/8	-10	15.9	1x14	78	39	33	30
1J943-12-12C-SM	19	3/4	-12	19.1	1-3/16x12	89	49	48	36

Approved **fitting series** for hose types:

	301SN	302	304	421SN	421WC	422	424	426	436	441	451	451TC	471TC	472TC	811	881
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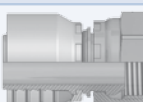
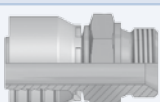
DIN – Metric

Page Cc-1 – Cc-4

CA Cc-1  Female Metric 24° Light Series with O-Ring Swivel – Straight ISO 12151-2-SWS-L – DKOL	CE Cc-1  Female Metric 24° Light Series with O-Ring Swivel – 45° Elbow ISO 12151-2-SWE 45°-L – DKOL 45°	CF Cc-2  Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow ISO 12151-2-SWE-L – DKOL 90°	D0 Cc-2  Male Metric 24° Light Series – Rigid Straight ISO 12151-2-S-L – CEL
C9 Cc-3  Female Metric 24° – Swivel Heavy Series with O-Ring Straight ISO 12151-2-SWS-S – DKOS	1C Cc-3  Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow ISO 12151-2-SWE-S – DKOS 90°	D2 Cc-4  Male Metric 24° – Rigid Heavy Series – Straight ISO 12151-2-S-S – CES	

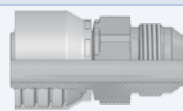
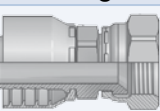
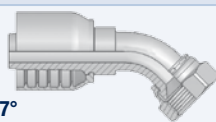
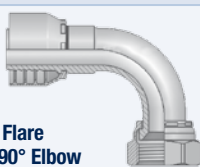
BSP

Page Cc-5 – Cc-6

92 Cc-5  Female BSP Parallel Pipe Swivel – Straight (60° Cone) BS5200-A – DKR	B1 Cc-5  Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone) BS 5200-D – DKR 45°	B2 Cc-6  Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) BS 5200-B – DKR 90°	D9 Cc-6  Male BSP Parallel Pipe Rigid – Straight (60° Cone) BS5200 – AGR
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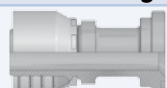
SAE

Page Cc-7 – Cc-8

03 Cc-7  Male JIC 37° – Rigid Straight ISO12151-5-S – AGJ	06/68 Cc-7  Female – JIC 37° SAE 45° Dual Flare Swivel – Straight ISO12151-5-SWS – DKJ	37/3V Cc-8  Female JIC 37° SAE 45° – Dual Flare Swivel Female 45° Elbow ISO 12151-5-SWE 45° – DKJ 45°	39/3W Cc-8  Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow ISO 12151-5-SWES – DKJ 90°
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Flange

Page Cc-9

15 Cc-9  SAE Code 61 – Flange Head Straight ISO 12151-3-S-L – SFL 3000 psi	19 Cc-9  SAE Code 61 – Flange Head 90° Elbow ISO 12151-3-E-L – SFL 90° 3000 psi
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Fittings Pressure Ratings

Fitting end connection	Description	Inch fittings (size) Maximum working pressure (MPa) – safety factor 4:1									
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
92, B1, B2	BSP swivel female	63.0		55.0	43.0	37.5	35.0	28.0	25.0	21.0	21.0
D9	BSP male	63.0		55.0	43.0		35.0	28.0	25.0	21.0	21.0
03	SAE (JIC) 37° male	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0
06/68, 37/3V, 39/3W	SAE (JIC) 37° swivel female	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0
15, 19	SAE flange Code 61				34.5	34.5	34.5	34.5	27.5	21.0	21.0

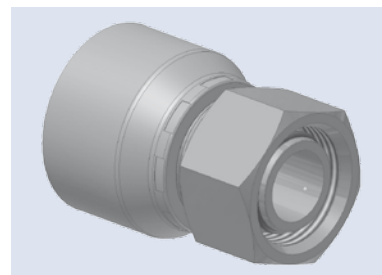
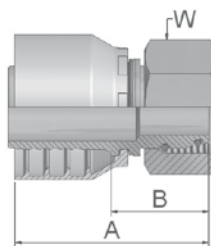
Fitting end connection	Description	Metric tube (mm) • Light series – L Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	15	18	22	28	35	42
CA, CE, CF	DIN 20066 swivel female with O-ring, Form N	31.5	42.5	40.0	35.0	31.5	31.5	28.0	21.0	16.0	16.0
D0	DIN 20066 male stud, Form D	25.0	42.5	40.0	35.0	31.0	28.0	28.0	21.0	16.0	16.0

Fitting end connection	Description	Metric tube (mm) • Heavy series – S Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	14	16	20	25	30	38
C9, 1C	Swivel female DIN 20066:2002-10 with O-ring, Form P	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0
D2	Male stud	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0

CA

**Female Metric 24°
Light Series with O-Ring
Swivel – Straight**

ISO 12151-2-SWS-L – DKOL



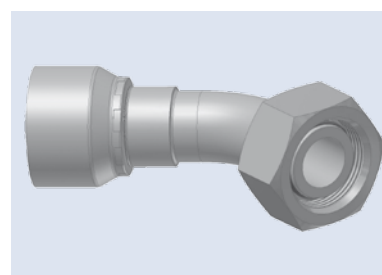
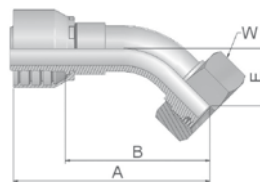
XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1CA48-6-4C	6	1/4	-4	6.4	M12x1.5	6	45	22	14
1CA48-8-4C	6	1/4	-4	6.4	M14x1.5	8	44	22	17
1CA48-10-5C	8	5/16	-5	7.9	M16x1.5	10	46	22	19
1CA48-12-5C	8	5/16	-5	7.9	M18x1.5	12	47	22	22
1CA48-10-6C	10	3/8	-6	9.5	M16x1.5	10	46	23	19
1CA48-12-6C	10	3/8	-6	9.5	M18x1.5	12	45	22	22
1CA48-15-8C	12	1/2	-8	12.7	M22x1.5	15	50	26	27
1CA48-18-8C	12	1/2	-8	12.7	M26x1.5	18	48	25	32
1CA48-18-10C	16	5/8	-10	15.9	M26x1.5	18	50	25	32
1CA48-22-10C	16	5/8	-10	15.9	M30x2	22	58	33	36
1CA48-22-12C	19	3/4	-12	19.1	M30x2	22	56	31	36
1CA48-28-16C	25	1	-16	25.4	M36x2	28	62	33	41
1CA48-35-20C	31	1 1/4	-20	31.8	M45x2	35	82	35	50
1CA48-42-24C	38	1 1/2	-24	38.1	M52x2	42	77	39	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

CE

**Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow**

ISO 12151-2-SWE 45°-L – DKOL
45°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1CE48-10-5C	8	5/16	-5	7.9	M16x1.5	10	68	43	15	19
1CE48-12-6C	10	3/8	-6	9.5	M18x1.5	12	68	45	19	22
1CE48-15-8C	12	1/2	-8	12.7	M22x1.5	15	71	47	22	27
1CE48-18-10C	16	5/8	-10	15.9	M26x1.5	18	75	50	23	32
1CE48-42-24C	38	1 1/2	-24	38.1	M52x2	42	155	117	49	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

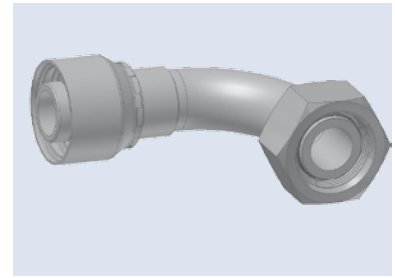
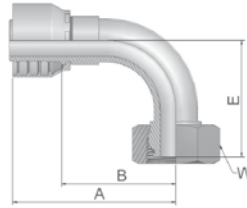
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **301SN 302 421SN 462 472TC 881**

CF Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow

ISO 12151-2-SWE-L – DKOL 90°

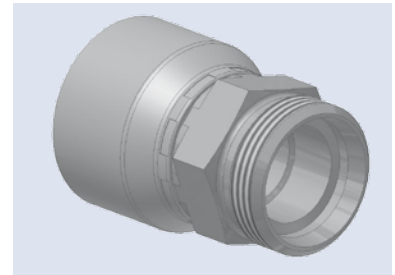
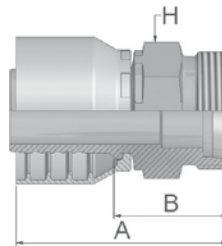


XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1CF48-8-4C	6	1/4	-4	6.4	M14x1.5	8	50	27	29	17
1CF48-10-5C	8	5/16	-5	7.9	M16x1.5	10	61	37	29	19
1CF48-12-6C	10	3/8	-6	9.5	M18x1.5	12	58	35	36	22
1CF48-15-8C	12	1/2	-8	12.7	M22x1.5	15	61	37	43	27
1CF48-18-10C	16	5/8	-10	15.9	M26x1.5	18	66	41	45	32
1CF48-22-12C	19	3/4	-12	19.1	M30x2	22	80	55	55	36
1CF48-28-16C	25	1	-16	25.4	M36x2	28	102	72	71	41
1CF48-35-20C	31	1 1/4	-20	31.8	M45x2	35	130	83	79	50
1CF48-42-24C	38	1 1/2	-24	38.1	M52x2	42	139	101	101	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

D0 Male Metric 24° Light Series – Rigid Straight

ISO 12151-2-S-L – CEL



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
1D048-8-4C	6	1/4	-4	6.4	M14x1.5	8	46	22	14
1D048-10-5C	8	5/16	-5	7.9	M16x1.5	10	48	24	17
1D048-12-6C	10	3/8	-6	9.5	M18x1.5	12	47	24	19
1D048-15-8C	12	1/2	-8	12.7	M22x1.5	15	50	26	22
1D048-18-10C	16	5/8	-10	15.9	M26x1.5	18	54	29	27
1D048-22-12C	19	3/4	-12	19.1	M30x2	22	59	33	30
1D048-28-16C	25	1	-16	25.4	M36x2	28	65	35	36
1D048-35-20C	31	1 1/4	-20	31.8	M45x2	35	85	38	46
1D048-42-24C	38	1 1/2	-24	38.1	M52x2	42	77	39	55

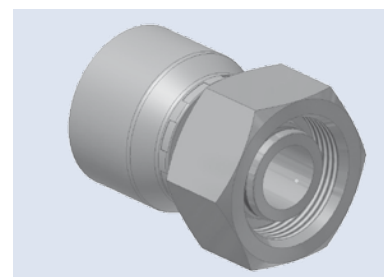
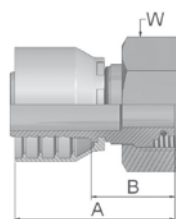
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 301SN 302 421SN 462 472TC 881

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

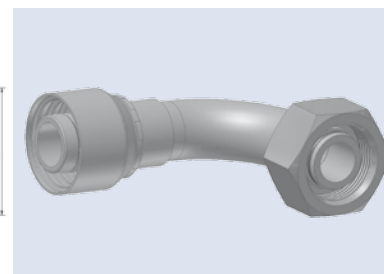
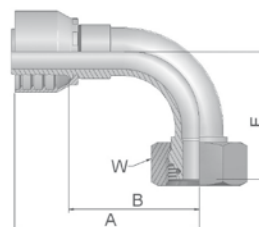
ISO 12151-2-SWS-S – DKOS



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1C948-8-4C	6	1/4	-4	6.4	M16x1.5	8	47	23	19
1C948-10-4C	6	1/4	-4	6.4	M18x1.5	10	45	23	22
1C948-10-5C	8	5/16	-5	7.9	M18x1.5	10	47	23	22
1C948-12-5C	8	5/16	-5	7.9	M20x1.5	12	48	24	24
1C948-10-6C	10	3/8	-6	9.5	M18x1.5	10	45	22	22
1C948-12-6C	10	3/8	-6	9.5	M20x1.5	12	48	25	24
1C948-14-6C	10	3/8	-6	9.5	M22x1.5	14	47	24	27
1C948-16-8C	12	1/2	-8	12.7	M24x1.5	16	51	28	30
1C948-20-10C	16	5/8	-10	15.9	M30x2	20	58	33	36
1C948-20-12C	19	3/4	-12	19.0	M30x2	20	56	30	36
1C948-25-12C	19	3/4	-12	19.1	M36x2	25	61	35	46
1C948-25-16C	25	1	-16	25.4	M36x2	25	63	33	46
1C948-30-16C	25	1	-16	25.4	M42x2	30	67	38	50
1C948-38-20C	31	1 1/4	-20	31.8	M52x2	38	80	33	60
1C948-38-24C	38	1 1/2	-24	38.1	M52x2	38	78	40	60
1C943-38-20C	31	1 1/4	-20	31.8	M52x2	38	80	33	60

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
11C48-10-4C	6	1/4	-4	6.4	M18x1.5	10	55	33	30	22
11C48-12-5C	8	5/16	-5	7.9	M20x1.5	12	61	36	33	24
11C48-14-6C	10	3/8	-6	9.5	M22x1.5	14	61	39	37	27
11C48-16-8C	12	1/2	-8	12.7	M24x1.5	16	61	37	45	30
11C48-20-10C	16	5/8	-10	15.9	M30x2	20	65	40	48	36
11C48-25-12C	19	3/4	-12	19.1	M36x2	25	80	54	59	46
11C48-30-16C	25	1	-16	25.4	M42x2	30	104	75	75	50
11C48-38-20C	31	1 1/4	-20	31.8	M52x2	38	130	83	78	60
11C48-38-24C	38	1 1/2	-24	38.1	M52x2	38	139	101	101	60

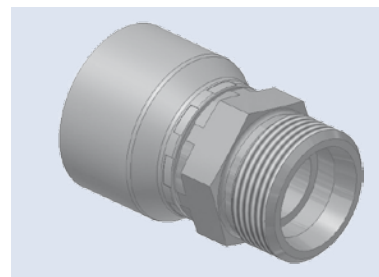
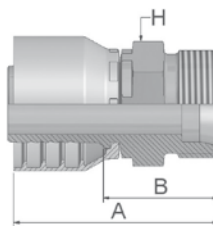
Approved **fitting series** for hose types:

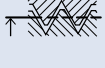
Also available in steel. Details can be found in CAT 4400/UK

 301SN 302 421SN 462 472TC 881

D2 Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



XXXXX-XX-XX Part Number 	 Hose I.D.				 Thread metric	Tube O.D. mm	A mm	B mm	 H mm
	DN	Inch	Size	mm					
1D248-10-4C	6	1/4	-4	6.4	M18x1.5	10	50	26	19
1D248-12-5C	8	5/16	-5	7.9	M20x1.5	12	50	26	22
1D248-14-6C	10	3/8	-6	9.5	M22x1.5	14	51	28	22
1D248-16-8C	12	1/2	-8	12.7	M24x1.5	16	52	29	24
1D248-20-10C	16	5/8	-10	15.9	M30x2	20	57	33	30
1D248-25-12C	19	3/4	-12	19.1	M36x2	25	64	39	36

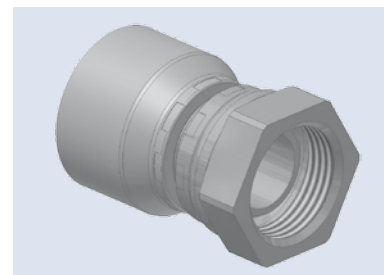
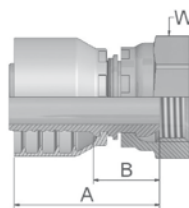
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 301SN 302 421SN 462 472TC 881

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

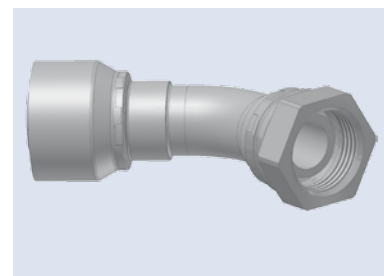
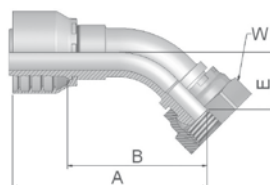
BS5200-A – DKR



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
19248-4-4C	6	1/4	-4	6.4	1/4x19	46	19	19
19248-6-6C	10	3/8	-6	9.5	3/8x19	43	20	22
19248-8-8C	12	1/2	-8	12.7	1/2x14	46	22	27
19248-10-10C	16	5/8	-10	15.9	5/8x14	45	20	30
19248-12-12C	19	3/4	-12	19.1	3/4x14	49	23	32
19248-16-16C	25	1	-16	25.4	1x11	55	25	41
19248-20-20C	31	1 1/4	-20	31.8	1 1/4x11	79	32	50
19248-24-24C	38	1 1/2	-24	38.1	1 1/2x11	71	33	60
19248-32-32C	51	2	-32	50.8	2x11	84	35	70

B1 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone)

BS 5200-D – DKR 45°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1B148-4-4C	6	1/4	-4	6.4	1/4x19	58	35	16	19
1B148-6-6C	10	3/8	-6	9.5	3/8x19	69	46	17	22
1B148-8-8C	12	1/2	-8	12.7	1/2x14	72	48	20	27
1B148-12-12C	19	3/4	-12	19.1	3/4x14	87	61	25	32
1B148-16-16C	25	1	-16	25.4	1x11	107	78	33	41
1B148-20-20C	31	1 1/4	-20	31.8	1 1/4x11	141	94	38	50

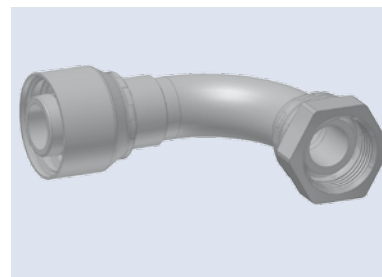
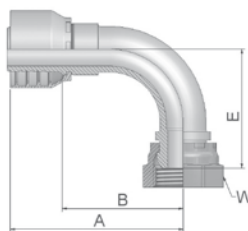
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **301SN 302 421SN 462 472TC 881**

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

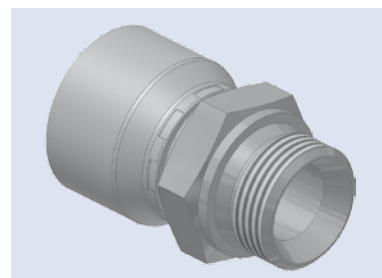
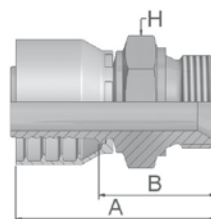
BS 5200-B – DKR 90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1B248-4-4C	6	1/4	-4	6.4	1/4x19	49	26	28	19
1B248-6-6C	10	3/8	-6	9.5	3/8x19	63	41	33	22
1B248-8-8C	12	1/2	-8	12.7	1/2x14	63	40	40	27
1B248-12-12C	19	3/4	-12	19.0	3/4x14	80	54	53	32
1B248-16-16C	25	1	-16	25.4	1x11	104	75	69	41
1B248-20-20C	31	1 1/4	-20	31.8	1 1/4x11	129	82	80	50

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	H mm
	DN	Inch	Size	mm				
1D948-4-4C	6	1/4	-4	6.4	1/4x19	51	27	19
1D948-6-6C	10	3/8	-6	9.5	3/8x19	54	31	22
1D948-8-8C	12	1/2	-8	12.7	1/2x14	57	33	27
1D948-12-12C	19	3/4	-12	19.1	3/4x14	62	36	32
1D948-16-16C	25	1	-16	25.4	1x11	72	42	41

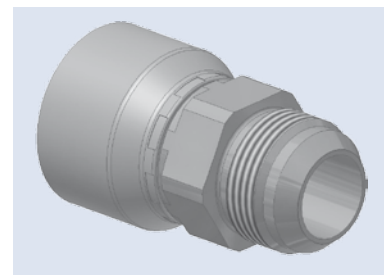
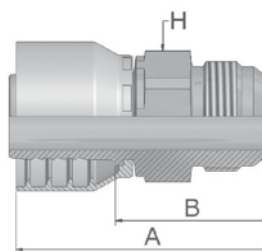
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 301SN 302 421SN 462 472TC 881

03 Male JIC 37° – Rigid Straight

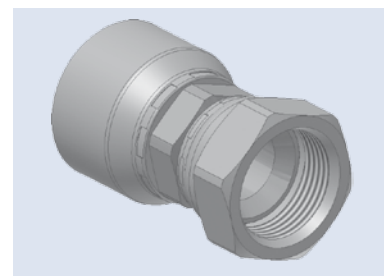
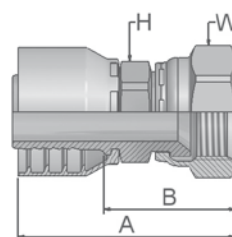
ISO12151-5-S – AGJ



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	H mm
	DN	Inch	Size	mm				
10348-4-4C	6	1/4	-4	6.4	7/16x20	52	29	14
10348-6-6C	10	3/8	-6	9.5	9/16x18	54	31	19
10348-8-8C	12	1/2	-8	12.7	3/4x16	57	34	22
10348-12-12C	19	3/4	-12	19.1	1-1/16x12	68	42	27
10348-16-16C	25	1	-16	25.4	1-5/16x12	76	46	36

06/68 Female – JIC 37° SAE 45° Dual Flare Swivel – Straight

ISO12151-5-SWS – DKJ



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
16848-4-4C	6	1/4	-4	6.4	7/16x20	52	29	14	17
10648-6-4C	6	1/4	-4	6.4	9/16x18	55	31	14	19
10648-6-6C	10	3/8	-6	9.5	9/16x18	52	29	17	19
16848-8-6C	10	3/8	-6	9.5	3/4x16	56	33	17	22
16848-8-8C	12	1/2	-8	12.7	3/4x16	56	32	22	22
16848-10-8C	12	1/2	-8	12.7	7/8x14	62	38	22	27
16848-10-10C	16	5/8	-10	15.9	7/8x14	60	35	22	27
10648-12-12C	19	3/4	-12	19.1	1-1/16x12	67	41	27	32
10648-16-16C	25	1	-16	25.4	1-5/16x12	75	46	32	41
10648-20-20C	31	1 1/4	-20	31.8	1-5/8x12	100	53	46	50
10648-24-24C	38	1 1/2	-24	38.1	1-7/8x12	98	60	55	60

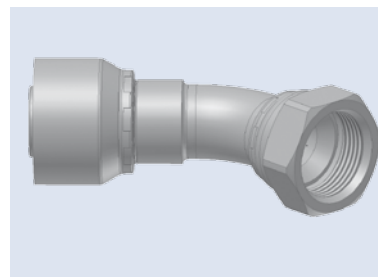
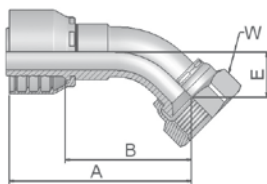
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **301SN 302 421SN 462 472TC 881**

37/3V Female JIC 37° SAE 45° – Dual Flare Swivel Female 45° Elbow

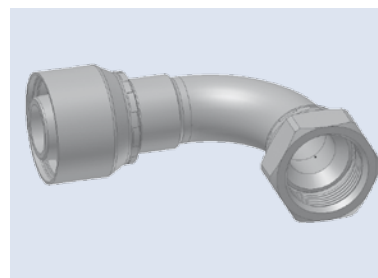
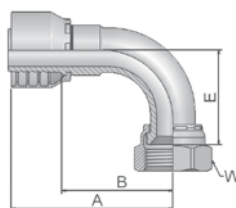
ISO 12151-5-SWE 45° – DKJ 45°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
13V48-4-4C	6	1/4	-4	6.4	7/16x20	51	29	10	17
13748-6-6C	10	3/8	-6	9.5	9/16x18	60	37	11	19
13V48-8-8C	12	1/2	-8	12.7	3/4x16	61	38	15	22
13748-12-12C	19	3/4	-12	19.1	1-1/16x12	84	58	22	32
13748-16-16C	25	1	-16	25.4	1-1/16x12	99	70	24	41

39/3W Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow

ISO 12151-5-SWES – DKJ 90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
13W48-4-4C	6	1/4	-4	6.4	7/16x20	48	24	21	17
13948-6-6C	10	3/8	-6	9.5	9/16x18	51	28	23	19
13W48-8-6C	10	3/8	-6	9.5	3/4x16	59	36	29	22
13W48-8-8C	12	1/2	-8	12.7	3/4x16	62	38	29	22
13W48-10-8C	12	1/2	-8	12.7	7/8x14	62	39	32	27
13W48-10-10C	16	5/8	-10	15.9	7/8x14	64	39	33	27
13948-12-12C	19	3/4	-12	19.1	1-1/16x12	80	54	48	32
13948-16-16C	25	1	-16	25.4	1-5/16x12	98	68	56	41
13948-20-20C	31	1 1/4	-20	31.8	1-5/8x12	129	82	70	50
13948-24-24C	38	1 1/2	-24	38.1	1-7/8x12	140	102	91	60
13948-32-32C	51	2	-32	50.8	2-1/2x12	185	137	145	75

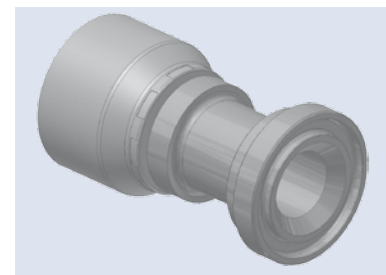
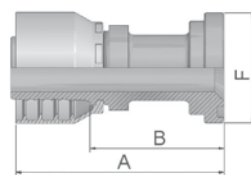
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **301SN 302 421SN 462 472TC 881**

15 SAE Code 61 – Flange Head Straight

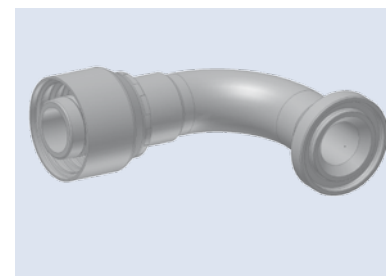
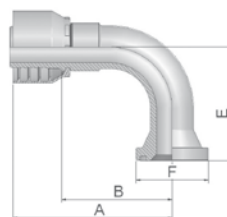
ISO 12151-3-S-L – SFL
3000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
11548-8-6C	10	3/8	-6	9.5	1/2	48	25	30
11548-8-8C	12	1/2	-8	12.7	1/2	74	50	30
11548-12-12C	19	3/4	-12	19.1	3/4	81	55	38
11548-16-16C	25	1	-16	25.4	1	84	54	45
11548-20-20C	31	1 1/4	-20	31.8	1 1/4	119	72	51
11548-24-24C	38	1 1/2	-24	38.1	1 1/2	117	79	60
11548-32-32C	51	2	-32	50.8	2	127	79	71

19 SAE Code 61 – Flange Head 90° Elbow

ISO 12151-3 – E- L – SFL 90°
3000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
11948-8-8C	12	1/2	-8	12.7	1/2	64	41	41	30
11948-12-12C	19	3/4	-12	19.1	3/4	80	54	58	38
11948-16-16C	25	1	-16	25.4	1	98	68	70	45
11948-20-20C	31	1 1/4	-20	31.8	1 1/4	130	83	90	51
11948-24-24C	38	1 1/2	-24	38.1	1 1/2	140	102	104	60
11948-32-32C	51	2	-32	50.8	2	186	138	138	71

Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 301SN 302 421SN 462 472TC 881

Shell

Page Cd-1

10046
Cd-1



No-Skive shell

for hoses 421SN, 441, 441RH, 461LT, 462, 462ST, 463, 492, 492ST, 692, 692TWIN

10048
Cd-1



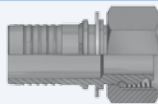
No-Skive shell

for hoses 301SN, 302, 421SN, 422, 462

DIN – Metric

Page Cd-2 – Cd-5

CA
Cd-2



Female Metric 24°
Light Series with O-Ring
Swivel – Straight
ISO 12151-2-SWS-L – DKOL

CE
Cd-2



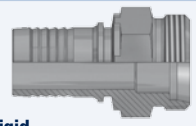
Female Metric 24°
Light Series with O-Ring
Swivel – 45° Elbow
ISO 12151-2-SWE 45°-L – DKOL 45°

CF
Cd-3



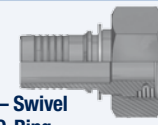
Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow
ISO 12151-2-SWE-L – DKOL 90°

D0
Cd-3



Male Metric 24°
Light Series – Rigid
Straight
ISO 12151-2-S-L – CEL

C9
Cd-4



Female Metric 24° – Swivel
Heavy Series with O-Ring
Straight
ISO 12151-2-SWS-S – DKOS

0C
Cd-4



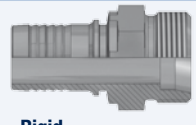
Female Metric 24° – Swivel
Heavy Series with O-Ring
45° Elbow
ISO 12151-2 – SWE 45°-S – DKOS 45°

1C
Cd-5



Female Metric 24° – Swivel
Heavy Series with O-Ring
90° Elbow
ISO 12151-2-SWE-S – DKOS 90°

D2
Cd-5

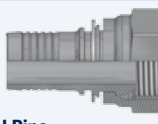


Male Metric 24° – Rigid
Heavy Series – Straight
ISO 12151-2-S-S – CES

BSP

Page Cd-6 – Cd-7

92
Cd-6



Female BSP Parallel Pipe
Swivel – Straight (60° Cone)
BS5200-A – DKR

B1
Cd-6



Female BSP Parallel Pipe
Swivel
45° Elbow (60° Cone)
BS 5200-D – DKR 45°

B2
Cd-7



Female BSP Parallel Pipe
Swivel
90° Elbow (60° Cone)
BS 5200-B – DKR 90°

D9
Cd-7

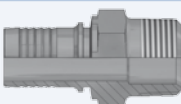


Male BSP Parallel Pipe
Rigid – Straight (60° Cone)
BS5200 – AGR

SAE

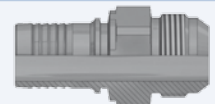
Page Cd-8 – Cd-9

01
Cd-8



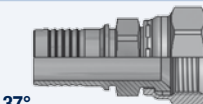
Male NPTF Pipe
Rigid – Straight
SAE J476A / J516 – AGN

03
Cd-8



Male JIC 37° – Rigid
Straight
ISO12151-5-S – AGJ

06/68
Cd-9



Female – JIC 37°
SAE 45° Dual Flare
Swivel – Straight
ISO12151-5-SWS – DKJ

39/3W
Cd-9



Female JIC 37°
SAE 45° – Dual Flare
Swivel Female 90° Elbow
ISO 12151-5-SWES – DKJ 90°

Flange

Page Cd-10 – Cd-11

15
Cd-10



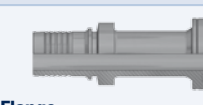
SAE Code 61 – Flange Head
Straight
ISO 12151-3-S-L – SFL
3000 psi

19
Cd-10



SAE Code 61 – Flange Head
90° Elbow
ISO 12151-3 – E-L – SFL 90°
3000 psi

6A
Cd-11



SAE Code 62 Flange
Straight
ISO 12151-3-S-S – SFS
6000 psi

6N
Cd-11



SAE Code 62 Flange
90° Elbow
ISO 12151-3 – E-S – SFS 90°
6000 psi

Further end-configurations available on request.

Fittings Pressure Ratings

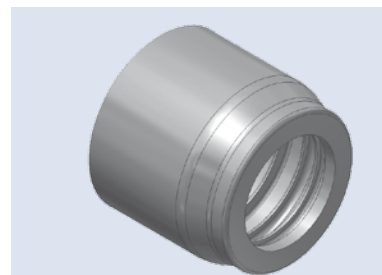
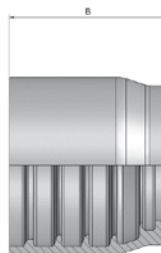
Fitting end connection	Description	Inch fittings (size) Maximum working pressure (MPa) – safety factor 4:1									
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
92, B1, B2	BSP swivel female	63.0		55.0	43.0	37.5	35.0	28.0	25.0	21.0	21.0
D9	BSP male	63.0		55.0	43.0		35.0	28.0	25.0	21.0	21.0
01	NPTF male	34.5		27.5	24.0		21.0	17.0	15.0	14.0	14.0
03	SAE (JIC) 37° male	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0
06/68, 39/3W	SAE (JIC) 37° swivel female	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0
15, 19	SAE flange Code 61				34.5	34.5	34.5	34.5	27.5	21.0	21.0
6A, 6N	SAE flange Code 62 6000 psi				41.0		41.0	41.0	41.0	41.0	41.0

Fitting end connection	Description	Metric tube (mm) • Light series – L Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	15	18	22	28	35	42
CA, CE, CF	DIN 20066 swivel female with O-ring, Form N	31.5	42.5	40.0	35.0	31.5	31.5	28.0	21.0	16.0	16.0
D0	DIN 20066 male stud, Form D	25.0	42.5	40.0	35.0	31.0	28.0	28.0	21.0	16.0	16.0

Fitting end connection	Description	Metric tube (mm) • Heavy series – S Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	14	16	20	25	30	38
C9, 0C, 1C	Swivel female DIN 20066:2002-10 with O-ring, Form P	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0
D2	Male stud	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0

10046 No-Skive shell

for hoses 421SN, 441, 441RH,
461LT, 462, 462ST, 463, 492,
492ST, 692, 692TWIN



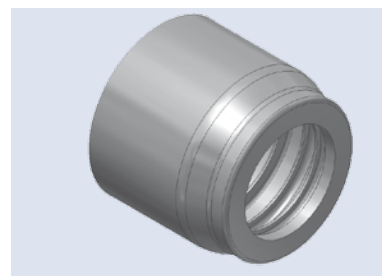
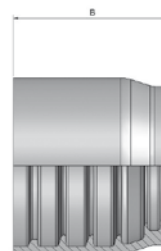
XXXXX-XX-XX Part Number 46	 Hose I.D.				B mm
DN	Inch	Size	mm		
10046-4C	6	1/4	-4	6.4	27.7
10046-5C	8	5/16	-5	7.9	27.7
10046-6C	10	3/8	-6	9.5	26.9
10046-8C	12	1/2	-8	12.7	27.7
10046-10C	16	5/8	-10	15.9	29.2
10046-12C	19	3/4	-12	19.1	30.2
10046-16C	25	1	-16	25.4	35.0

10048 No-Skive shell

for hoses 301SN, 302, 421SN*, 422*,
462**

*) only size -6, -8, -10, -12 and -16

**) only size -4, -6 and -8



XXXXX-XX-XX Part Number 48	 Hose I.D.				B mm
DN	Inch	Size	mm		
10048-4C	6	1/4	-4	6.4	27.7
10048-5C	8	5/16	-5	7.9	27.7
10048-6C	10	3/8	-6	9.5	26.9
10048-8C	12	1/2	-8	12.7	27.7
10048-10C	16	5/8	-10	15.9	29.2
10048-12C	19	3/4	-12	19.1	30.2
10048-16C	25	1	-16	25.4	35.0

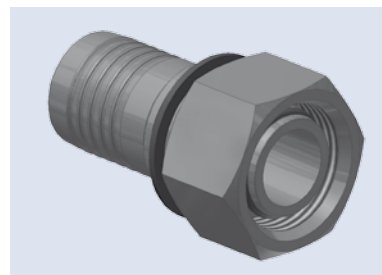
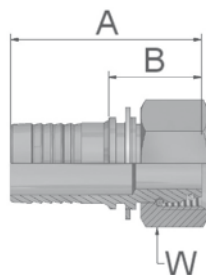
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN 441 441RH 461LT 462 462ST 463 492 492ST 692 692TWIN
48	301SN 302 421SN only size -6, -8, -10, -12 and -16 422 only size -6, -8, -10, -12 and -16 462 only size -4, -6 and -8

CA Female Metric 24° Light Series with O-Ring Swivel – Straight

ISO 12151-2-SWS-L – DKOL

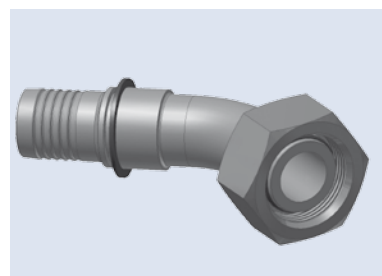
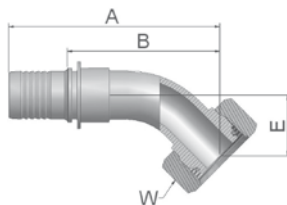


XXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
KCA47-6-4C	6	1/4	-4	6.4	M12x1.5	6	49	22	14
KCA47-8-4C	6	1/4	-4	6.4	M14x1.5	8	49	22	17
KCA47-10-4C	6	1/4	-4	6.4	M16x1.5	10	49	22	19
KCA47-10-5C	8	5/16	-5	7.9	M16x1.5	10	49	22	19
KCA47-10-6C	10	3/8	-6	9.5	M16x1.5	10	48	23	19
KCA47-12-6C	10	3/8	-6	9.5	M18x1.5	12	47	22	22
KCA47-15-6C	10	3/8	-6	9.5	M22x1.5	15	51	27	27
KCA47-12-8C	12	1/2	-8	12.7	M18x1.5	12	53	26	22
KCA47-15-8C	12	1/2	-8	12.7	M22x1.5	15	53	26	27
KCA47-18-10C	16	5/8	-10	15.9	M26x1.5	18	53	25	32
KCA47-22-12C	19	3/4	-12	19.1	M30x2	22	58	31	36
KCA47-28-16C	25	1	-16	25.4	M36x2	28	64	33	41

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

CE Female Metric 24° Light Series with O-Ring Swivel – 45° Elbow

ISO 12151-2-SWE 45°-L – DKOL
45°



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
KCE47-6-4C	6	1/4	-4	6.4	M12x1.5	6	72	45	19	14
KCE47-8-4C	6	1/4	-4	6.4	M14x1.5	8	62	35	16	17
KCE47-10-4C	6	1/4	-4	6.4	M16x1.5	10	62	35	16	19
KCE47-10-5C	8	5/16	-5	7.9	M16x1.5	10	70	43	15	19
KCE47-12-6C	10	3/8	-6	9.5	M18x1.5	12	70	45	19	22
KCE47-15-8C	12	1/2	-8	12.7	M22x1.5	15	74	47	22	27
KCE47-18-10C	16	5/8	-10	15.9	M26x1.5	18	78	50	23	32
KCE47-22-12C	19	3/4	-12	19.1	M30x2	22	91	63	26	36
KCE47-28-16C	25	1	-16	25.4	M36x 2	28	115	83	33	41

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

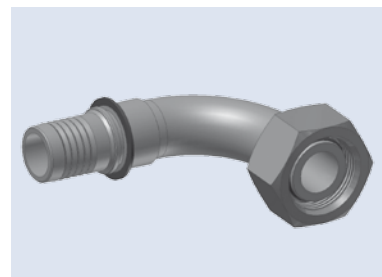
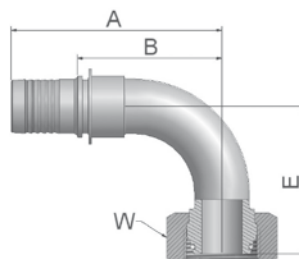
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN	
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16			422	only size -6, -8, -10, -12 and -16			462	only size -4, -6 and -8

CF**Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow**

ISO 12151-2-SWE-L – DKOL 90°

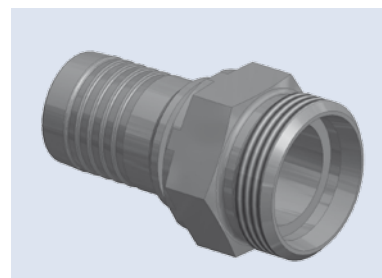
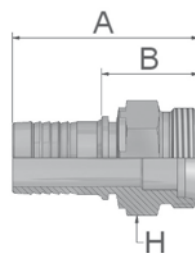


XXXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
KCF47-6-4C	6	1/4	-4	6.4	M12x1.5	6	60	33	33	14
KCF47-8-4C	6	1/4	-4	6.4	M14x1.5	8	54	27	29	17
KCF47-10-4C	6	1/4	-4	6.4	M16x1.5	10	55	28	29	19
KCF47-10-5C	8	5/16	-5	7.9	M16x1.5	10	64	37	29	19
KCF47-10-6C	10	3/8	-6	9.5	M16x1.5	10	62	37	37	19
KCF47-12-6C	10	3/8	-6	9.5	M18x1.5	12	60	35	36	22
KCF47-15-8C	12	1/2	-8	12.7	M22x1.5	15	64	37	43	27
KCF47-18-10C	16	5/8	-10	15.9	M26x1.5	18	68	41	45	32
KCF47-22-12C	19	3/4	-12	19.1	M30x2	22	82	55	55	36
KCF47-28-16C	25	1	-16	25.4	M36x2	28	102	70	71	41

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

D0**Male Metric 24°
Light Series – Rigid
Straight**

ISO 12151-2-S-L – CEL



XXXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
KD047-8-4C	6	1/4	-4	6.4	M14x1.5	8	49	22	14
KD047-10-5C	8	5/16	-5	7.9	M16x1.5	10	51	24	17
KD047-12-6C	10	3/8	-6	9.5	M18x1.5	12	49	24	19
KD047-15-8C	12	1/2	-8	12.7	M22x1.5	15	53	26	22
KD047-18-10C	16	5/8	-10	15.9	M26x1.5	18	57	29	27
KD047-22-12C	19	3/4	-12	19.1	M30x2	22	62	33	30
KD047-28-16C	25	1	-16	25.4	M36x2	28	67	35	36

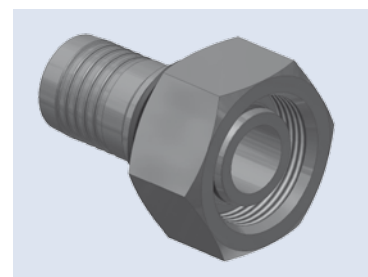
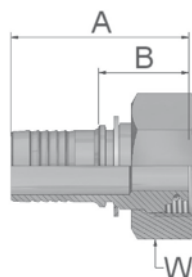
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN	
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16			422	only size -6, -8, -10, -12 and -16			462	only size -4, -6 and -8

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

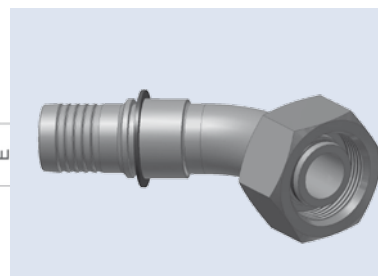
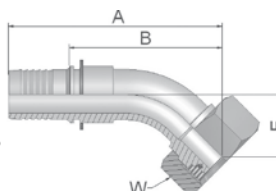
ISO 12151-2-SWS-S – DKOS



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
KC947-6-4C	6	1/4	-4	6.4	M14x1.5	6	52	25	17
KC947-8-4C	6	1/4	-4	6.4	M16x1.5	8	50	23	19
KC947-10-4C	6	1/4	-4	6.4	M18x1.5	10	50	23	22
KC947-12-5C	8	5/16	-5	7.9	M20x1.5	12	52	25	24
KC947-12-6C	10	3/8	-6	9.5	M20x1.5	12	50	25	24
KC947-14-6C	10	3/8	-6	9.5	M22x1.5	14	49	24	27
KC947-16-8C	12	1/2	-8	12.7	M24x1.5	16	55	28	30
KC947-20-10C	16	5/8	-10	15.9	M30x2	20	61	33	36
KC947-20-12C	19	3/4	-12	19.1	M30x2	20	59	30	36
KC947-25-12C	19	3/4	-12	19.1	M36x2	25	63	35	46
KC947-25-16C	25	1	-16	25.4	M36x2	25	64	33	46
KC947-30-16C	25	1	-16	25.4	M42x2	30	63	31	50
KC947-38-20C	31	1 1/4	-20	31.8	M52x2	38	81	36	60
1C948-38-20C	31	1 1/4	-20	31.8	M52x2	38	80	33	60
1C948-38-24C	38	1 1/2	-24	38.1	M52x2	38	78	40	60
1C943-38-20C	31	1 1/4	-20	31.8	M52x2	38	80	33	60

OC Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE 45°-S – DKOS 45°



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
KOC47-10-4C	6	1/4	-4	6.4	M18x1.5	10	70	43	17	22
KOC47-12-5C	8	5/16	-5	7.9	M20x1.5	12	75	48	18	24
KOC47-12-6C	10	3/8	-6	9.5	M20x1.5	12	72	48	21	24
KOC47-16-8C	12	1/2	-8	12.7	M24x1.5	16	75	48	23	30
KOC47-25-12C	19	3/4	-12	19.1	M36x2	25	93	65	29	41
KOC47-25-16C	25	1	-16	25.4	M36x2	25	112	80	33	46
KOC47-30-16C	25	1	-16	25.4	M42x2	30	118	86	36	50
11C48-38-20C	31	1 1/4	-20	31.8	M52x2	38	130	83	78	60
11C48-38-24C	38	1 1/2	-24	38.1	M52x2	38	139	101	101	60

Approved **fitting series** for hose types:

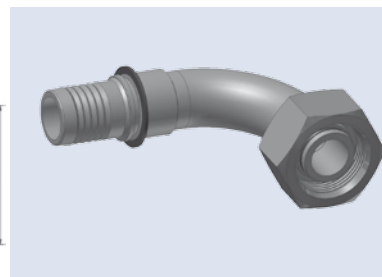
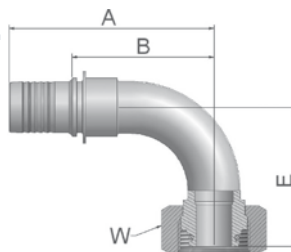
Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16		422	only size -6, -8, -10, -12 and -16		462	only size -4, -6 and -8	

1C

Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

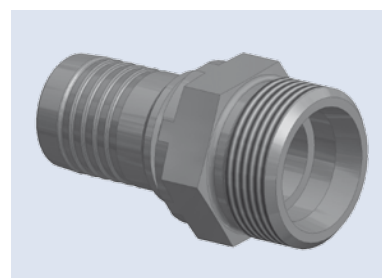
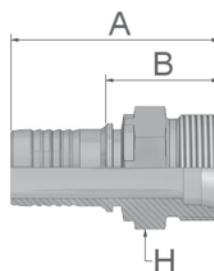


XXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
K1C47-6-4C	6	1/4	-4	6.4	M14x1.5	6	65	39	32	17
K1C47-8-4C	6	1/4	-4	6.4	M16x1.5	8	56	29	30	19
K1C47-10-4C	6	1/4	-4	6.4	M18x1.5	10	60	33	30	22
K1C47-12-5C	8	5/16	-5	7.9	M20x1.5	12	63	36	33	24
K1C47-12-6C	10	3/8	-6	9.5	M20x1.5	12	59	37	39	24
K1C47-14-6C	10	3/8	-6	9.5	M22x1.5	14	64	39	37	27
K1C47-16-8C	12	1/2	-8	12.7	M24x1.5	16	64	37	45	30
K1C47-20-10C	16	5/8	-10	15.9	M30x2	20	67	40	50	36
K1C47-20-12C	19	3/4	-12	19.1	M30x2	20	82	54	58	36
K1C47-25-12C	19	3/4	-12	19.1	M36x2	25	82	54	59	46
K1C47-25-16C	25	1	-16	25.4	M36x2	25	104	72	71	46
K1C47-30-16C	25	1	-16	25.4	M42x2	30	106	75	76	50

D2

Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
KD247-10-4C	6	1/4	-4	6.4	M18x1.5	10	53	26	19
KD247-12-5C	8	5/16	-5	7.9	M20x1.5	12	53	26	22
KD247-12-6C	10	3/8	-6	9.5	M18x1.5	12	51	26	22
KD247-14-6C	10	3/8	-6	9.5	M22x1.5	14	53	28	22
KD247-16-8C	12	1/2	-8	12.7	M24x1.5	16	56	29	24
KD247-20-10C	16	5/8	-10	15.9	M30x2	20	60	33	36
KD247-25-12C	19	3/4	-12	19.1	M36x2	25	67	39	36
KD247-30-16C	25	1	-16	25.4	M42x2	30	74	42	46

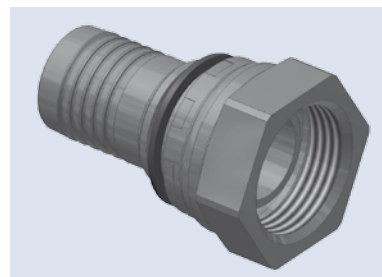
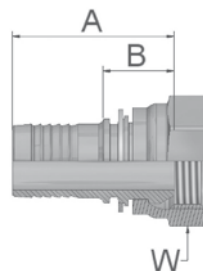
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN	
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16			422	only size -6, -8, -10, -12 and -16			462	only size -4, -6 and -8

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

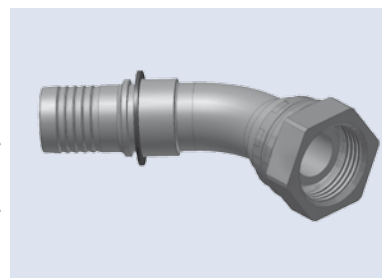
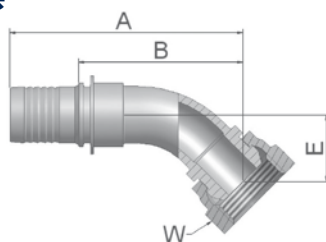
BS5200-A – DKR



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
K9247-4-4C	6	1/4	-4	6.4	1/4x19	46	19	19
K9247-6-6C	10	3/8	-6	9.5	3/8x19	45	20	22
K9247-8-8C	12	1/2	-8	12.7	1/2x14	49	22	27
K9247-10-10C	16	5/8	-10	15.9	5/8x14	48	20	30
K9247-12-12C	19	3/4	-12	19.1	3/4x14	51	23	32
K9247-16-16C	25	1	-16	25.4	1x11	57	25	41

B1 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone)

BS 5200-D – DKR 45°



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
KB147-6-6C	10	3/8	-6	9.5	3/8x19	71	46	17	22
KB147-8-8C	12	1/2	-8	12.7	1/2x14	75	48	20	27
KB147-12-12C	19	3/4	-12	19.1	3/4x14	89	61	25	32
KB147-16-16C	25	1	-16	25.4	1x11	109	78	33	41

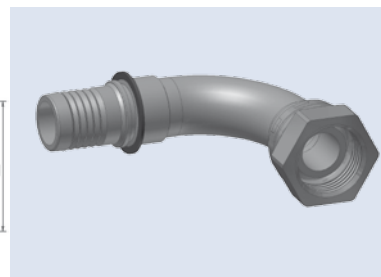
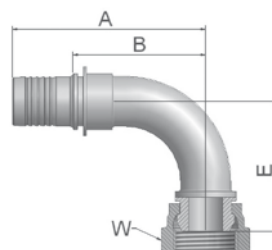
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16		422	only size -6, -8, -10, -12 and -16		462	only size -4, -6 and -8	

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

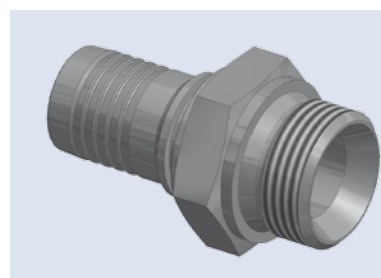
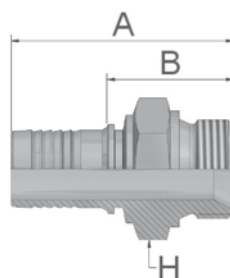
BS 5200-B – DKR 90°



XXXXXX-XX-XX Part Number 47	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
KB247-4-4C	6	1/4	-4	6.4	1/4x19	53	26	28	19
KB247-6-6C	10	3/8	-6	9.5	3/8x19	66	41	33	22
KB247-8-8C	12	1/2	-8	12.7	1/2x14	66	40	40	27
KB247-12-12C	19	3/4	-12	19.1	3/4x14	82	54	53	32
KB247-16-16C	25	1	-16	25.4	1x11	106	74	69	41

D9 Male BSP Parallel Pipe Rigid – Straight (60° Cone)

BS5200 – AGR



XXXXXX-XX-XX Part Number 47	Hose I.D.				Thread BSP	A mm	B mm	H mm
	DN	Inch	Size	mm				
KD947-6-6C	10	3/8	-6	9.5	3/8x19	56	31	22
KD947-8-8C	12	1/2	-8	12.7	1/2x14	60	34	27
KD947-12-12C	19	3/4	-12	19.1	3/4x14	65	36	32
KD947-16-16C	25	1	-16	25.4	1x11	74	42	41

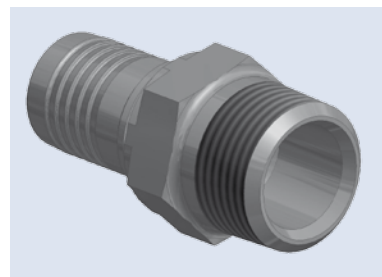
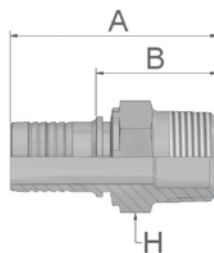
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN	
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16			422	only size -6, -8, -10, -12 and -16			462	only size -4, -6 and -8

01 Male NPTF Pipe Rigid – Straight

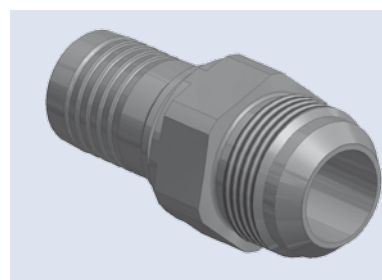
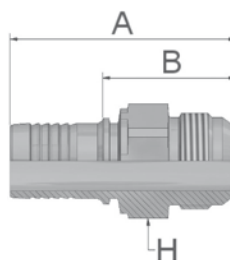
SAE J476A / J516 – AGN



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread UNF	A mm	B mm	H mm
	DN	Inch	Size	mm				
K0147-4-4C	6	1/4	-4	6.4	1/4x18	56	29	14
K0147-6-6C	10	3/8	-6	9.5	3/8x18	56	31	19
K0147-8-8C	12	1/2	-8	12.7	1/2x14	65	38	22
K0147-12-12C	19	3/4	-12	19.1	3/4x14	62	34	27
K0147-16-16C	25	1	-16	25.4	1x11 1/2	92	48	46
K0147-20-20C	31	1 1/4	-20	31.8	1 1/4x11 1/2	77	45	36

03 Male JIC 37° – Rigid Straight

ISO12151-5-S – AGJ



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread UNF	A mm	B mm	H mm
	DN	Inch	Size	mm				
K0347-6-6C	10	3/8	-6	9.5	9/16x18	56	31	19
K0347-8-8C	12	1/2	-8	12.7	3/4x16	61	34	22
K0347-12-12C	19	3/4	-12	19.1	1-1/16x12	70	42	27
K0347-16-16C	25	1	-16	25.4	1-5/16x12	78	46	36

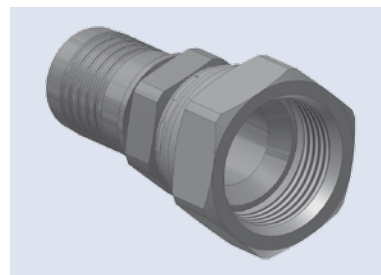
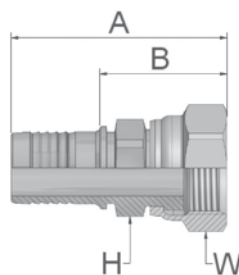
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16		422	only size -6, -8, -10, -12 and -16		462	only size -4, -6 and -8	

06/68 Female – JIC 37° SAE 45° Dual Flare Swivel – Straight

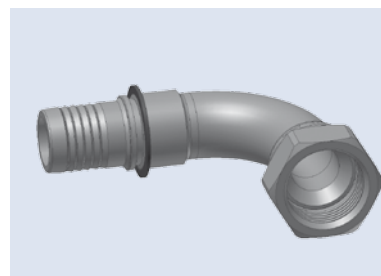
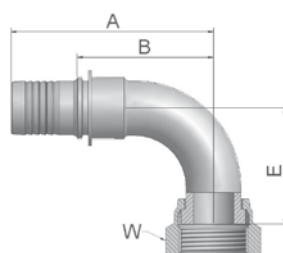
ISO12151-5-SWS – DKJ



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
K6847-4-4C	6	1/4	-4	6.4	7/16x20	56	29	14	17
K0647-6-4C	6	1/4	-4	6.4	9/16x18	58	31	14	19
K0647-6-5C	8	5/16	-5	7.9	9/16x18	56	29	14	19
K0647-6-6C	10	3/8	-6	9.5	9/16x18	54	29	17	19
K6847-8-8C	12	1/2	-8	12.7	3/4x16	59	32	22	22
K6847-10-10C	16	5/8	-10	15.9	7/8x14	63	35	22	27
K0647-12-12C	19	3/4	-12	19.1	1-1/16x12	69	41	27	32
K0647-16-16C	25	1	-16	25.4	1-5/16x12	77	46	32	41

39/3W Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow

ISO 12151-5-SWES – DKJ 90°



XXXXX-XX-XX Part Number 47	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
K3W47-4-4C	6	1/4	-4	6.4	7/16x20	51	24	21	17
K3947-6-4C	6	1/4	-4	6.4	9/16x18	52	25	23	19
K3947-6-5C	8	5/16	-5	7.9	9/16x18	54	27	23	19
K3947-6-6C	10	3/8	-6	9.5	9/16x18	52	28	23	19
K3W47-8-8C	12	1/2	-8	12.7	3/4x16	65	38	29	22
K3W47-10-10C	16	5/8	-10	15.9	7/8x14	66.5	39	33	27
K3947-12-12C	19	3/4	-12	19.1	1-1/16x12	82	54	48	32
K3947-16-16C	25	1	-16	25.4	1-5/16x12	100	68	56	41

Approved **fitting series** for hose types:

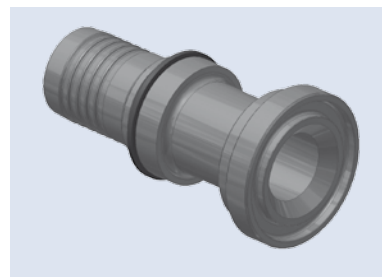
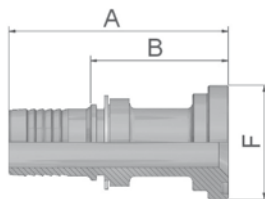
Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN	
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16			422	only size -6, -8, -10, -12 and -16			462	only size -4, -6 and -8

15

SAE Code 61 – Flange Head Straight

ISO 12151-3-S-L – SFL
3000 psi

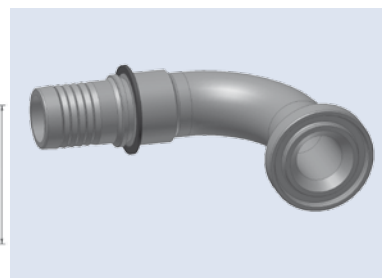
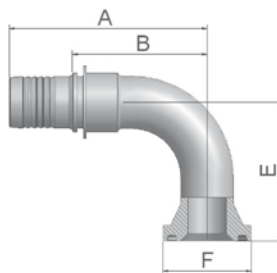


XXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
K1547-12-12C	19	3/4	-12	19.1	3/4	84	55	38
K1547-16-12C	19	3/4	-12	19.1	1	59	30	45
K1547-16-16C	25	1	-16	25.4	1	86	54	45

19

SAE Code 61 – Flange Head 90° Elbow

ISO 12151-3 – E- L – SFL 90°
3000 psi



XXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K1947-12-12C	19	3/4	-12	19.1	3/4	82	54	58	38
K1947-16-12C	19	3/4	-12	19.1	1	82	54	58	45
K1947-16-16C	25	1	-16	25.4	1	100	68	70	45
K1947-20-16C	25	1	-16	25.4	1 1/4	104	72	70	51

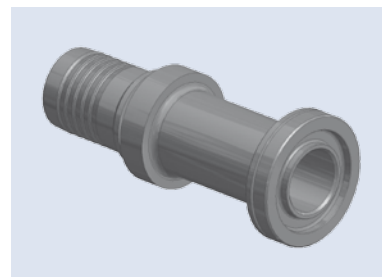
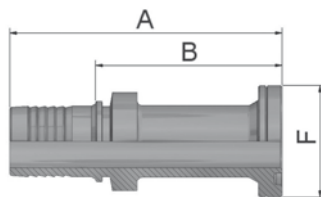
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16		422	only size -6, -8, -10, -12 and -16		462	only size -4, -6 and -8	

6A SAE Code 62 Flange Straight

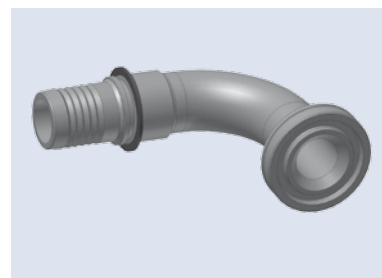
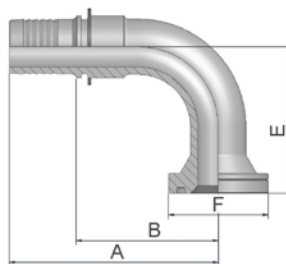
ISO 12151-3-S-S – SFS
6000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
K6A47-8-8C	12	1/2	-8	12.7	1/2	78	51	32
K6A47-12-12C	19	3/4	-12	19.1	3/4	99	70	41
K6A47-16-16C	25	1	-16	25.4	1	113	81	48
K6A47-20-16C	25	1	-16	25.4	1 1/4	79	47	54

6N SAE Code 62 Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
6000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K6N47-8-8C	12	1/2	-8	12.7	1/2	71	44	41	32
K6N47-12-12C	19	3/4	-12	19.1	3/4	82	54	54	41
K6N47-20-16C	25	1	-16	25.4	1 1/4	104	72	70	54

Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4481/UK

46	421SN	441	441RH	461LT	462	462ST	463	492	492ST	692	692TWIN	
48	301SN	302	421SN	only size -6, -8, -10, -12 and -16			422	only size -6, -8, -10, -12 and -16			462	only size -4, -6 and -8



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



Hydraulic Hose Fittings in Stainless Steel

High pressure



ENGINEERING YOUR SUCCESS.

Parkrimp *No-Skive* and ParLock System

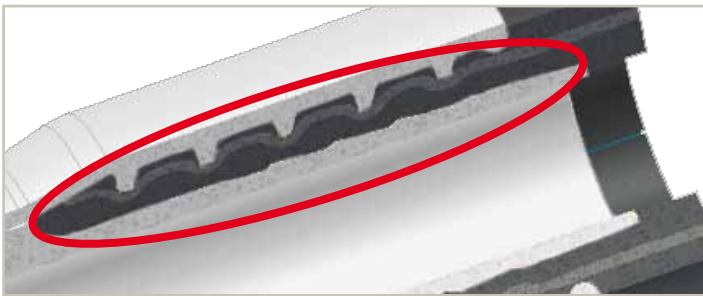
Along with the ever-growing power and efficiency of construction, agriculture and other machinery and increasing working pressures and flow

rates of their hydraulic systems, multispiral hose is gaining an increasingly important role in machine design. Parker Hannifin, as the world

leader in the hydraulic hose market, responds to these highly demanding requirements with 2 comprehensive systems – Parkrimp No-Skive and ParLock.

Parkrimp *No-Skive* system

is based on no-skiving technology (without removing the rubber cover before assembling)



Each of the Parkrimp No-Skive and ParLock systems consists of integrated ranges of hose, fittings and assembling equipment and know-how, all of which are:

- Designed and developed together
- Tested and approved together
- Produced and supplied together

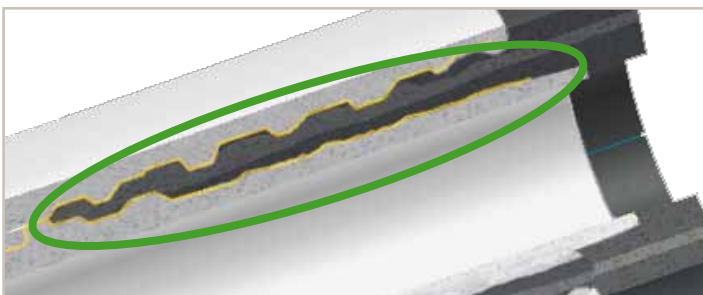
This way Parker Hannifin can guarantee:

- The highest quality and safety and the longest service life of the final product – to the end users, and at the same time:
- The easiest, most efficient and safe production process – to the assemblers.

In this way Parker Hannifin also meets the requirements of SAE J1273 and ISO 17165-2, which pay particular attention to matching the hose with the fittings and to their compatibility proven by the manufacturer.

ParLock system

uses external or internal and external skiving (Interlock) technology



Each of the two concepts has its indisputable advantages – which concept should be selected depends on the particular conditions of the application.

Parkrimp *No-Skive*

The easy to operate crimp system
from textile to 6 spiral high tensile steel wire

Parkrimp No-Skive is synonymous with the best solution for assembling hydraulic and related hose and fittings from both the technical and the manufacturing points of view!

Throughout the progressive rubber and metal compression during the crimping process the reinforcement always remains intact. The meticulous design,

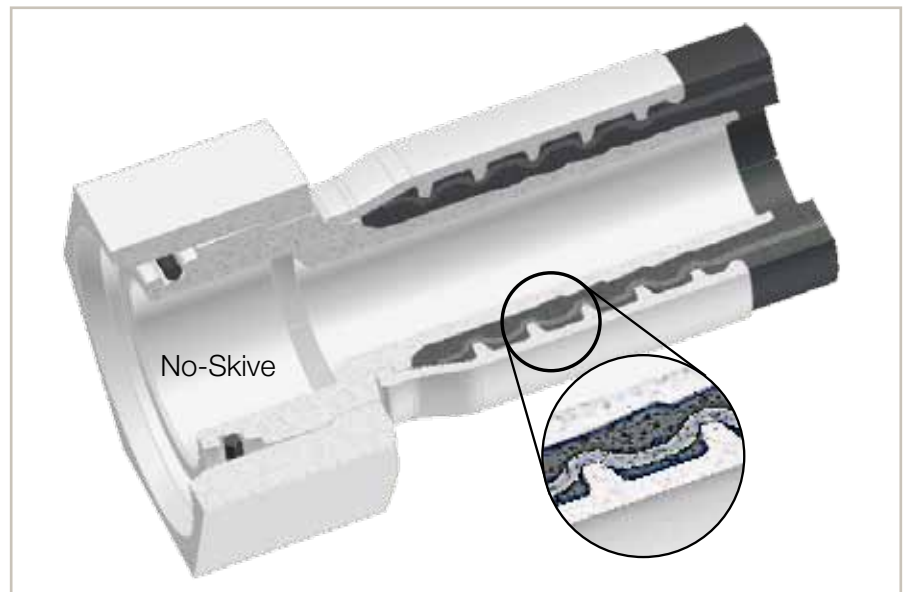
testing and manufacturing processes of Parkrimp No-Skive hose and fittings, combined with the approved crimping diameters provide an excellent mechanical connection between the hose and the fitting. This absolutely leak-free connection gives long service life even with the highest pressures associated with 4- and 6-spiral hose assemblies.

The smartly designed and time-tested Parkrimp No-Skive assembling equipment combined with Parker's assembling know how allow the safest, most efficient and mistake-proof assembly process. The Parkrimp equipment allows cost and time savings to the assembler and guarantees a defect-free, reliable and durable final product to the end-user.

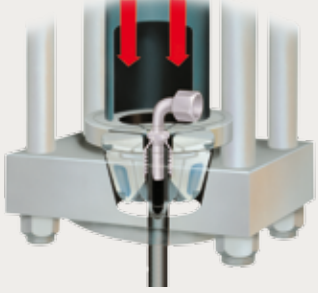
Parkrimp *No-Skive* hose and fittings

the system for fast and leak-free assemblies

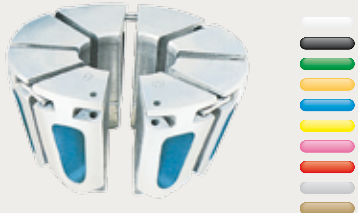
- For crimping Parkrimp No-Skive fittings only
- No skiving tool needed
- No need to remove the cover
- Quick and easy: no gauges to set on the machine
- Portable machines for field repair
- Meets EN safety regulations



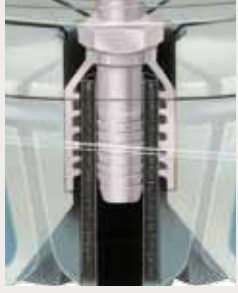
Parkrimp *No-Skive* hose and fittings the system with the perfect match



The perfect match
The complete system from one source. No-Skive hose, No-Skive fitting and crimping machine with world-wide guarantee and availability.



Parker's colour-coded die sets
No loose parts to mismatch or misplace – die set segments linked together. Die sets provide 360° evenly applied crimping forces for an ideal crimp result.



Parkalign®
Parker's exclusive Parkalign® positions the fitting in the dies perfectly every time.

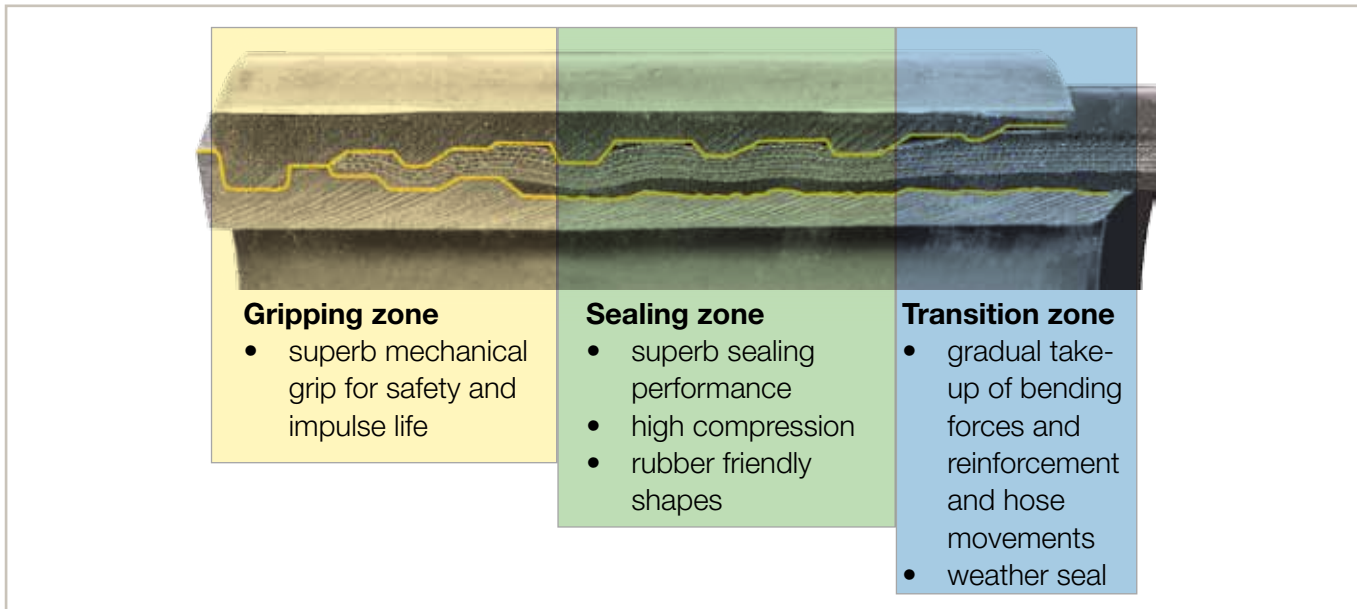


ParLock

The system for extremely dynamic pressure applications

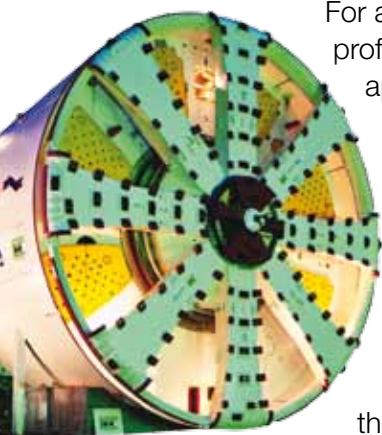
Applications requiring the ParLock system

- Hydrostatic transmissions (combine harvesters, large tractors, excavators, etc.)
- Vibratory hammers
- Large injection moulding machines
- Tunnelling machines
- Forestry machines
- Large material handling machines (container handling)
- Excavator booms
- Blow-out preventers in oil and gas



For manufacturing the ParLock hose assemblies Parker Hannifin offers

- Skiving machines for external and internal skiving
- Universal crimping machines with adjustable crimping diameter
- Detailed assembling instructions (see further in this catalogue)



For applications with extremely dynamic pressure profiles, pressure surges and peaks, as well as applications with intense vibrations and hose flexing (bending), especially when close to the fitting, a strong mechanical grip by the fitting onto the hose is paramount.

A popular method accepted by the market of achieving this mechanical grip in such applications is to use hose fittings that „lock“ the metal reinforcement of the hose directly between the metal shell and nipple – for which the rubber of the hose has to be removed both

externally and up to a certain length also internally (a concept generally called „Interlock“).

As a response to the market requirement for an „Interlock“ hose fitting system, Parker has developed the Parlock program. This range consists of a specific range of hose, fittings and assembly equipment combined with Parker crimping know-how.

Parkrimp No-Skive

3-braids Standard	3-braids low temperature	3-braids high abrasion res.	3-braids railway
372  No-Skive Compact 3-wire braid compact hose with 4SP working pressures	371LT  No-Skive Compact 3-wire braid low-temperature compact hose with 4SP working pressures	372TC  No-Skive Compact 3-wire braid compact hose with 4SP working pressures	372RH  No-Skive Compact 3-wire braid with fire-retardant cover

Standard

701  No-Skive Multispiral ISO 3862 Type 4SP – DIN EN 856 Type 4SP

Hose Pressure Ratings

	Hose	Working Pressure (MPa) in Size													Temp.	Construction	Standard
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48			
Standard	372				44.5	41.5	35.0	35.0	28.0						-40/+100	3 braids, wire	-
Low temperature	371LT				44.5	41.5	35.0	35.0	28.0						-50/+100	3 braids, wire	-
High abrasion res.	372TC				44.5	41.5	35.0	35.0	28.0						-40/+100	3 braids, wire	-
Railway	372RH				44.5	41.5	35.0	35.0	28.0						-40/+100	3 braids, wire	-
Standard	701				45.0	41.5	35.0	35.0	28.0						-40/+100	4 spiral, wire	DIN EN 856-4SP - ISO 3862-4SP

You can find details on these products in our catalogue CAT/4400/UK

ParLock

Standard

H29



ParLock Multispiral
Exceeds ISO 3862 Type 4SH –
DIN EN 856 Type 4SH

R42



ParLock Multispiral
Exceeds ISO 3862 Type R15 –
Parker Specifications

High abrasion resistance MSHA approved

H29TC



ParLock Multispiral
Exceeds ISO 3862 Type 4SH –
DIN EN 856 Type 4SH

R42TC



ParLock Multispiral
Exceeds ISO 3862 Type R15 –
Parker Specifications

Extreme abrasion resistance

H29ST



ParLock Multispiral
Exceeds ISO 3862 Type 4SH –
DIN EN 856 Type 4SH

R42ST



ParLock Multispiral
Exceeds ISO 3862 Type R15 –
Parker Specifications

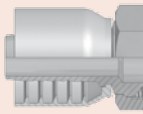
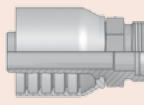
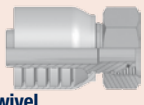
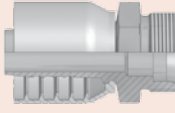
Hose Pressure Ratings

	Hose	Working Pressure (MPa) in Size												Temp.	Construction	Standard	
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48			
Standard	H29							43.0	40.0	35.0	31.0	28.0			-40/+100	4 spiral, wire	Exceeds DIN EN 856-4SH - ISO 3862-4SH
	R42						42.0	42.0	42.0	42.0	42.0	42.0			-40/+125	4/6 spiral, wire	ISO 3862-R15 - SAE 100R15
High abrasion resistance MSHA	H29TC							43.0	40.0	35.0	31.0	28.0			-40/+100	4 spiral, wire	Exceeds DIN EN 856-4SH - ISO 3862-4SH
	R42TC						42.0	42.0	42.0	42.0	42.0	42.0			-40/+125	4/6 spiral, wire	ISO 3862-R15 - SAE 100R15
Extreme abrasion resistance	H29ST							43.0	40.0	35.0	31.0	28.0			-40/+100	4 spiral, wire	Exceeds DIN EN 856-4SH - ISO 3862-4SH
	R42ST						42.0	42.0	42.0	42.0	42.0	42.0			-40/+125	4/6 spiral, wire	ISO 3862-R15 - SAE 100R15

You can find details on these products in our catalogue CAT/4400/UK

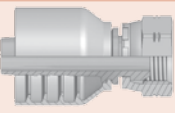
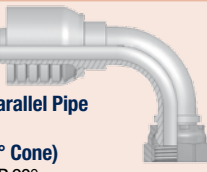
DIN – Metric

Page Db-1 – Db-3

CA Db-1  Female Metric 24° Light Series with O-Ring Swivel – Straight ISO 12151-2-SWS-L – DKOL	CF Db-1  Female Metric 24° Light Series with O-Ring Swivel – 90° Elbow ISO 12151-2-SWE-L – DKOL 90°	D0 Db-2  Male Metric 24° Light Series – Rigid Straight ISO 12151-2-S-L – CEL	C9 Db-2  Female Metric 24° – Swivel Heavy Series with O-Ring Straight ISO 12151-2-SWS-S – DKOS
1C Db-3  Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow ISO 12151-2-SWE-S – DKOS 90°	D2 Db-3  Male Metric 24° – Rigid Heavy Series – Straight ISO 12151-2-S-S – CES		

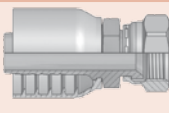
BSP

Page Db-4

92 Db-4  Female BSP Parallel Pipe Swivel – Straight (60° Cone) BS5200-A – DKR	B2 Db-4  Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) BS 5200-B – DKR 90°
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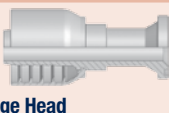
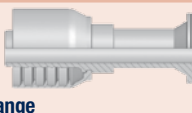
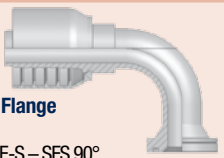
SAE

Page Db-5

06/68 Db-5  Female – JIC 37° SAE 45° Dual Flare Swivel – Straight ISO12151-5-SWS – DKJ	39/3W Db-5  Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow ISO 12151-5-SWES – DKJ 90°
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Flange

Page Db-6 – Db-7

15 Db-6  SAE Code 61 – Flange Head Straight ISO 12151-3-S-L – SFL 3000 psi	19 Db-6  SAE Code 61 – Flange Head 90° Elbow ISO 12151-3-E-L – SFL 90° 3000 psi	6A Db-7  SAE Code 62 Flange Straight ISO 12151-3-S-S – SFS 6000 psi	6N Db-7  SAE Code 62 Flange 90° Elbow ISO 12151-3-E-S – SFS 90° 6000 psi
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Fittings Pressure Ratings

Fitting end connection	Description	Inch fittings (size) Maximum working pressure (MPa) – safety factor 4:1									
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
92, B2	BSP swivel female	63.0		55.0	43.0	37.5	35.0	28.0	25.0	21.0	21.0
06/68, 39/3W	SAE (JIC) 37° swivel female	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0
15, 19	SAE flange Code 61				34.5	34.5	34.5	34.5	27.5	21.0	21.0
6A, 6N	SAE flange Code 62 6000 psi				41.0		41.0	41.0	41.0	41.0	41.0

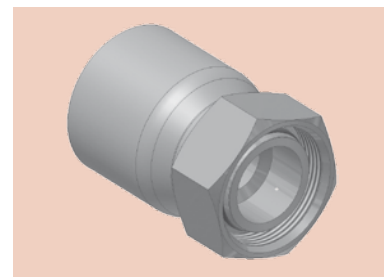
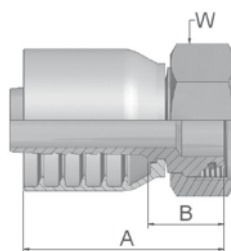
Fitting end connection	Description	Metric tube (mm) • Light series – L Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	15	18	22	28	35	42
CA, CF	DIN 20066 swivel female with O-ring, Form N	31.5	42.5	40.0	35.0	31.5	31.5	28.0	21.0	16.0	16.0
D0	DIN 20066 male stud, Form D	25.0	42.5	40.0	35.0	31.0	28.0	28.0	21.0	16.0	16.0

Fitting end connection	Description	Metric tube (mm) • Heavy series – S Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	14	16	20	25	30	38
C9, 1C	Swivel female DIN 20066:2002-10 with O-ring, Form P	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0
D2	Male stud	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0

CA

**Female Metric 24°
Light Series with O-Ring
Swivel – Straight**

ISO 12151-2-SWS-L – DKOL



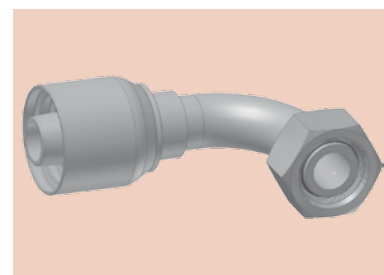
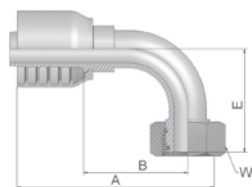
XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1CA70-10-6C	10	3/8	-6	9.5	M16x1.5	10	53	24	19
1CA70-12-6C	10	3/8	-6	9.5	M18x1.5	12	53	24	22
1CA70-15-8C	12	1/2	-8	12.7	M22x1.5	15	61	27	27
1CA70-18-10C	16	5/8	-10	15.9	M26x1.5	18	62	25	32
1CA70-22-12C	19	3/4	-12	19.1	M30x2	22	63	24	36
1CA70-28-16C	25	1	-16	25.4	M36x2	28	78	33	41
1CA70-35-20C	31	1 1/4	-20	31.8	M45x2	35	82	35	50

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

CF

**Female Metric 24°
Light Series with O-Ring
Swivel – 90° Elbow**

ISO 12151-2-SWE-L – DKOL 90°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1CF70-10-6C	10	3/8	-6	9.5	M16x1.5	10	67	38	38	19
1CF70-12-6C	10	3/8	-6	9.5	M18x1.5	12	67	38	37	22
1CF70-15-8C	12	1/2	-8	12.7	M22x1.5	15	74	39	45	27
1CF70-18-10C	16	5/8	-10	15.9	M26x1.5	18	79	42	49	32
1CF70-22-12C	19	3/4	-12	19.1	M30x2	22	89	49	55	36
1CF70-28-16C	25	1	-16	25.4	M36x2	28	114	68	73	41
1CF70-35-20C	31	1 1/4	-20	31.8	M45x2	35	130	83	79	50

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
Special O-rings are available on request.

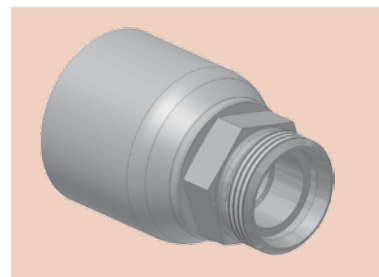
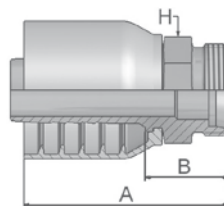
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **371LT 372 372TC 372RH 701**

D0 Male Metric 24° Light Series – Rigid Straight

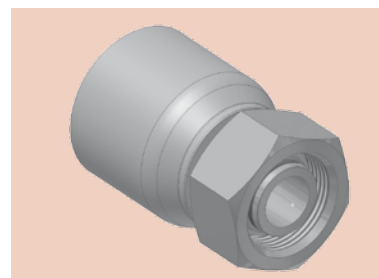
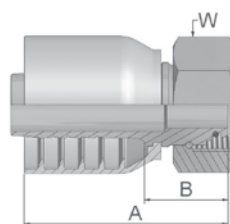
ISO 12151-2-S-L – CEL



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
1D070-12-6C	10	3/8	-6	9.5	M18x1.5	12	52	23	19
1D070-15-8C	12	1/2	-8	12.7	M22x1.5	15	60	26	22
1D070-18-10C	16	5/8	-10	15.9	M26x1.5	18	65	28	27
1D070-22-12C	19	3/4	-12	19.1	M30x2	22	69	30	30
1D070-28-16C	25	1	-16	25.4	M36x2	28	79	32	36

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1C970-12-6C	10	3/8	-6	9.5	M20x1.5	12	52	23	24
1C970-14-6C	10	3/8	-6	9.5	M22x1.5	14	53	24	27
1C970-16-8C	12	1/2	-8	12.7	M24x1.5	16	59	24	30
1C970-20-10C	16	5/8	-10	15.9	M30x2	20	66	27	36
1C970-20-12C	19	3/4	-12	19.1	M30x2	20	66	27	36
1C970-25-12C	19	3/4	-12	19.1	M36x2	25	67	28	46
1C970-25-16C	25	1	-16	25.4	M36x2	25	78	33	46
1C970-30-16C	25	1	-16	25.4	M42x2	30	80	33	50
1C970-38-20C	31	1 1/4	-20	31.8	M52x2	38	80	33	60

Approved **fitting series** for hose types:

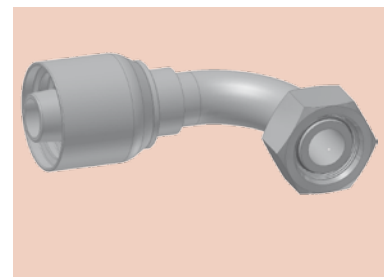
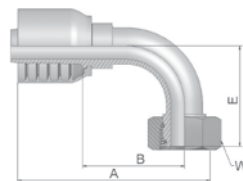
Also available in steel. Details can be found in CAT 4400/UK

 371LT 372 372TC 372RH 701

1C

Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

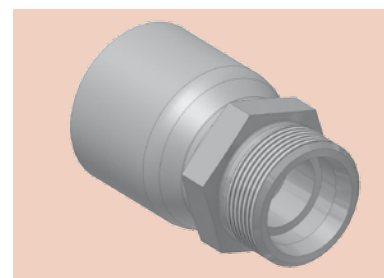
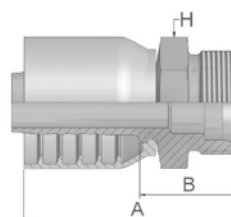


XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
11C70-12-6C	10	3/8	-6	9.5	M20x1.5	12	67	38	37	24
11C70-14-6C	10	3/8	-6	9.5	M22x1.5	14	67	37	37	27
11C70-16-8C	12	1/2	-8	12.7	M24x1.5	16	72	37	45	30
11C70-20-10C	16	5/8	-10	15.9	M30x2	20	77	40	50	36
11C70-20-12C	19	3/4	-12	19.1	M30x2	20	89	50	58	36
11C70-25-12C	19	3/4	-12	19.1	M36x2	25	89	49	59	46
11C70-25-16C	25	1	-16	25.4	M36x2	25	111	64	69	46
11C70-30-16C	25	1	-16	25.4	M42x2	30	115	68	76	50
11C70-38-20C	31	1 1/4	-20	31.8	M52x2	38	130	83	78	60

D2

Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
1D270-14-6C	10	3/8	-6	9.5	M22x1.5	14	57	28	22
1D270-16-8C	12	1/2	-8	12.7	M24x1.5	16	62	28	24
1D270-20-10C	16	5/8	-10	15.9	M30x2	20	72	32	30
1D270-20-12C	19	3/4	-12	19.1	M30x2	20	78	33	30
1D270-25-12C	19	3/4	-12	19.1	M36x2	25	74	35	36
1D270-25-16C	25	1	-16	25.4	M36x2	25	84	37	36

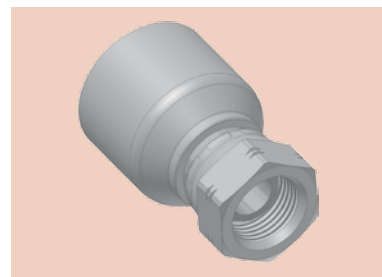
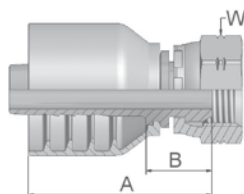
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 371LT 372 372TC 372RH 701

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

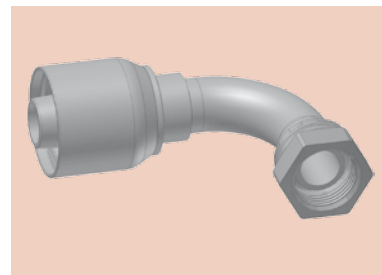
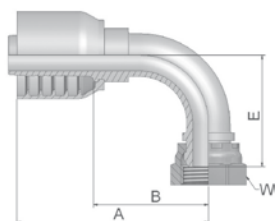
BS5200-A – DKR



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
19270-6-6C	10	3/8	-6	9.5	3/8x19	49	20	22
19270-8-8C	12	1/2	-8	12.7	1/2x14	57	22	27
19270-10-10C	16	5/8	-10	15.9	5/8x14	60	21	30
19270-12-12C	19	3/4	-12	19.1	3/4x14	61	22	32
19270-16-16C	25	1	-16	25.4	1x11	72	25	41

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

BS 5200-B – DKR 90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1B270-6-6C	10	3/8	-6	9.5	3/8x19	66	37	33	22
1B270-8-8C	12	1/2	-8	12.7	1/2x14	74	39	40	27
1B270-12-12C	19	3/4	-12	19.1	3/4x14	89	50	53	32
1B270-16-16C	25	1	-16	25.4	1x11	114	69	69	41

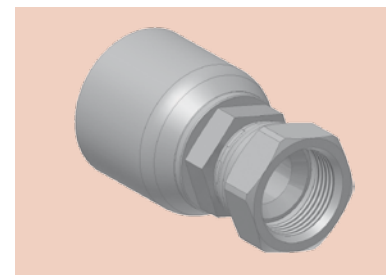
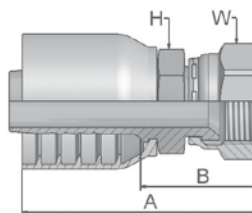
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 371LT | 372 | 372TC | 372RH | 701

06/68 Female – JIC 37° SAE 45° Dual Flare Swivel – Straight

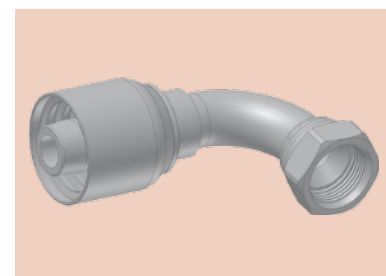
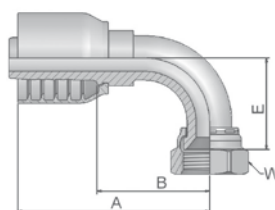
ISO12151-5-SWS – DKJ



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
10670-6-6C-SM	10	3/8	-6	9.5	9/16x18	58	29	17	19
16870-8-8C-SM	12	1/2	-8	12.7	3/4x16	67	32	22	22
10670-10-8C-SM	12	1/2	-8	12.7	7/8x14	70	35	22	27
16870-10-10C-SM	16	5/8	-10	15.9	7/8x14	75	35	24	27
10670-12-12C-SM	19	3/4	-12	19.1	1-1/16x12	80	41	27	32
10670-16-16C-SM	25	1	-16	25.4	1-5/16x12	92	47	36	41
10670-20-20C-SM	31	1 1/4	-20	31.8	1-5/8x12	100	53	46	50

39/3W Female JIC 37° SAE 45° – Dual Flare Swivel Female 90° Elbow

ISO 12151-5-SWES – DKJ 90°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
13970-6-6C-SM	10	3/8	-6	9.5	9/16x18	57	28	23	19
13W70-8-8C-SM	12	1/2	-8	12.7	3/4x16	66	32	29	22
13970-10-10C-SM	16	5/8	-10	15.9	7/8x14	80	40	33	27
13970-12-12C-SM	19	3/4	-12	19.1	1-1/16x12	89	50	48	32
13970-16-16C-SM	25	1	-16	25.4	1-5/16x12	109	64	55	41
13970-20-20C-SM	31	1 1/4	-20	31.8	1-5/8x12	129	82	70	50

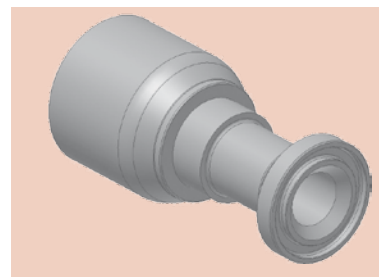
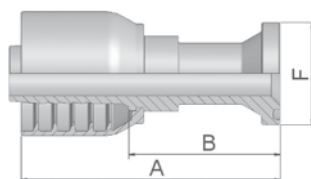
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 371LT 372 372TC 372RH 701

15 SAE Code 61 – Flange Head Straight

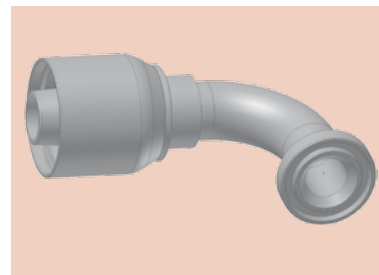
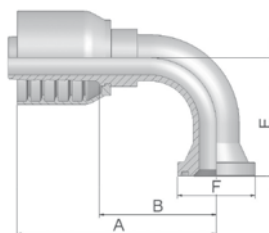
ISO 12151-3-S-L – SFL
3000 psi



XXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
11570-12-12C-1P	19	3/4	-12	19.1	3/4	98	59	38
11570-16-12C-1P	19	3/4	-12	19.1	1	70	30	45
11570-16-16C-1P	25	1	-16	25.4	1	110	63	45
11570-20-16C-1P	25	1	-16	25.4	1 1/4	83	36	51

19 SAE Code 61 – Flange Head 90° Elbow

ISO 12151-3 – E- L – SFL 90°
3000 psi



XXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
11970-12-12C-1P	19	3/4	-12	19.1	3/4	89	50	58	38
11970-16-12C-1P	19	3/4	-12	19.1	1	89	50	58	45
11970-16-16C-1P	25	1	-16	25.4	1	111	64	70	45
11970-20-16C-1P	25	1	-16	25.4	1 1/4	115	68	70	51

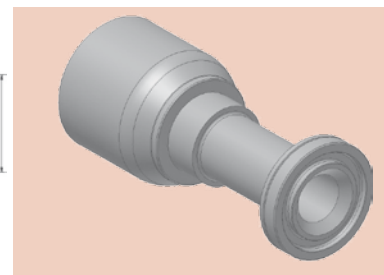
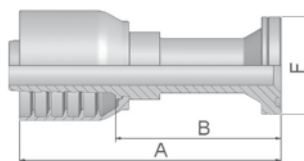
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 371LT 372 372TC 372RH 701

6A SAE Code 62 Flange Straight

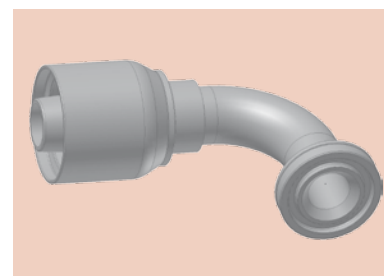
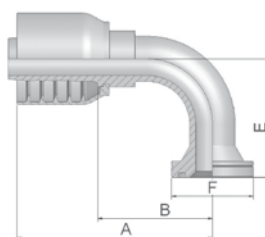
ISO 12151-3-S-S – SFS
6000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
16A70-8-8C-1P	12	1/2	-8	12.7	1/2	89	54	32
16A70-12-12C-1P	19	3/4	-12	19.1	3/4	105	65	41
16A70-16-12C-1P	19	3/4	-12	19.1	1	79	39	48
16A70-16-16C-1P	25	1	-16	25.4	1	124	77	48
16A70-20-16C-1P	25	1	-16	25.4	1 1/4	99	47	54
16A70-20-20C-1P	31	1 1/4	-20	31.8	1 1/4	130	83	54

6N SAE Code 62 Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
6000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
16N70-8-8C-1P	12	1/2	-8	12.7	1/2	74	39	41	32
16N70-12-12C-1P	19	3/4	-12	19.1	3/4	98	58	54	41
16N70-12-16C-1P	25	1	-16	25.4	3/4	99	54	70	41
16N70-16-16C-1P	25	1	-16	25.4	1	111	64	70	48

Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **371LT 372 372TC 372RH 701**

Shell

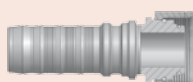
Page Dc-1

V4**Dc-1**

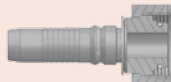
Interlock
In-/Outside Skive
4 Wire Hoses

DIN – Metric

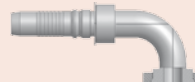
Page Dc-2 – Dc-3

CA**Dc-2**

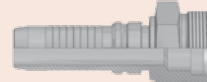
Female Metric 24°
Light Series with O-Ring
Swivel – Straight
ISO 12151-2-SWS-L – DKOL

C9**Dc-2**

Female Metric 24° – Swivel
Heavy Series with O-Ring
Straight
ISO 12151-2-SWS-S – DKOS

1C**Dc-3**

Female Metric 24° – Swivel
Heavy Series with O-Ring
90° Elbow
ISO 12151-2-SWE-S – DKOS 90°

D2**Dc-3**

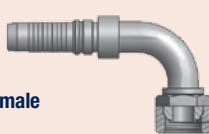
Male Metric 24° – Rigid
Heavy Series – Straight
ISO 12151-2-S-S – CES

BSP

Page Dc-4 – Dc-5

EA**Dc-4**

BSP Swivel Female
with O-Ring (60° Cone)
BS 5200 – ISO 12151-6 – DKOR

EC**Dc-4**

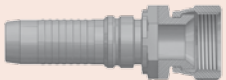
BSP Swivel Female
with O-Ring
90° Elbow (60° Cone)
BS 5200 – ISO 12151-6 – DKOR 90°

D9**Dc-5**

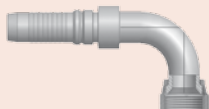
Male BSP Parallel Pipe
Rigid – Straight (60° Cone)
BS5200 – AGR

SAE

Page Dc-6

06**Dc-6**

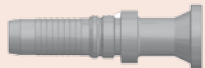
Female JIC 37° – Swivel
Straight
ISO12151-5-SWS – DKJ

39**Dc-6**

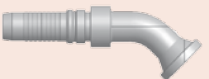
Female JIC 37° – Swivel
90° Elbow
ISO 12151-5-SWES – DKJ 90°

Flange

Page Dc-7 – Dc-9

15**Dc-7**

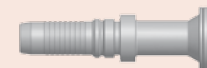
SAE Code 61 – Flange Head
Straight
ISO 12151-3-S-L – SFL
3000 psi

17**Dc-7**

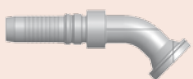
SAE Code 61 – Flange Head
45° Elbow
ISO 12151-3 – E45 – L – SFL 45°
3000 psi

19**Dc-8**

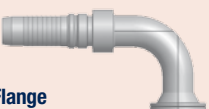
SAE Code 61 – Flange Head
90° Elbow
ISO 12151-3 – E – L – SFL 90°
3000 psi

6A**Dc-8**

SAE Code 62 Flange
Straight
ISO 12151-3-S-S – SFS
6000 psi

6F**Dc-9**

SAE Code 62 Flange
45° Elbow – Heavy Series
ISO 12151-3 – E45-S – SFS 45°
6000 psi

6N**Dc-9**

SAE Code 62 Flange
90° Elbow
ISO 12151-3 – E-S – SFS 90°
6000 psi

Fittings Pressure Ratings

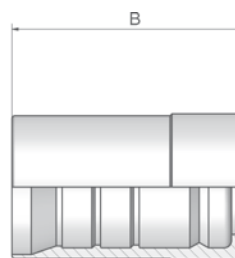
Fitting end connection	Description	Inch fittings (size) Maximum working pressure (MPa) – safety factor 4:1									
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
EA, EC	BSP swivel female with O-ring	40.0		40.0	35.0	35.0	31.5	25.0	20.0	16.0	12.5
D9	BSP male	63.0		55.0	43.0		35.0	28.0	25.0	21.0	21.0
06, 39	SAE (JIC) 37° swivel female	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0
15, 17, 19	SAE flange Code 61				34.5	34.5	34.5	34.5	27.5	21.0	21.0
6A, 6F, 6N	SAE flange Code 62 6000 psi				41.0		41.0	41.0	41.0	41.0	41.0

Fitting end connection	Description	Metric tube (mm) • Light series – L Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	15	18	22	28	35	42
CA	DIN 20066 swivel female with O-ring, Form N	31.5	42.5	40.0	35.0	31.5	31.5	28.0	21.0	16.0	16.0

Fitting end connection	Description	Metric tube (mm) • Heavy series – S Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	14	16	20	25	30	38
C9, 1C	Swivel female DIN 20066:2002-10 with O-ring, Form P	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0
D2	Male stud	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0

V4**Interlock
In-/Outside Skive**

4 Wire Hoses



**Only for use with
adjustable crimpers.
Minimum of
320 tons crimping
force recommended.**

XXXXX-XX-XX Part Number V4	 Hose I.D.				B mm
	DN	Inch	Size	mm	
100V4-10C	16	5/8	-10	15.9	49
100V4-12C	19	3/4	-12	19.1	60
100V4-16C	25	1	-16	25.4	75
100V4-20C*	31	1-1/4	-20	31.8	88
100V4-24C*	38	1-1/2	-24	38.1	94

* not for R42, R42TC, R42ST

Approved **fitting series** for hose types:

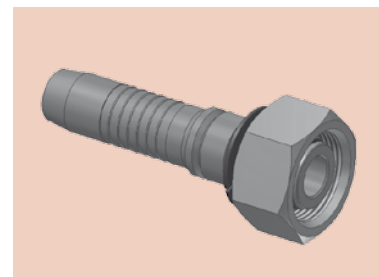
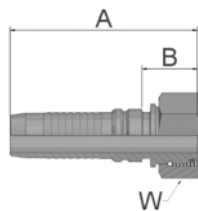
Also available in steel. Details can be found in CAT 4400/UK



H29 H29ST H29TC R42 R42ST R42TC

CA Female Metric 24° Light Series with O-Ring Swivel – Straight

ISO 12151-2-SWS-L – DKOL

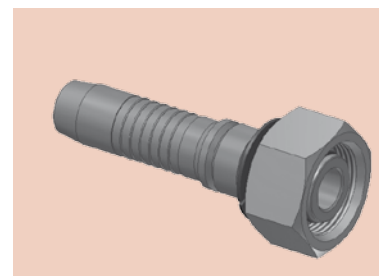
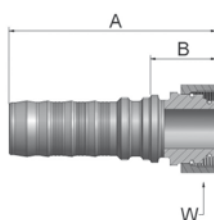


XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
KCAV4-22-12C	19	3/4	-12	19.1	M30x2	22	89	28	36
KCAV4-28-16C	25	1	-16	25.4	M36x2	28	103	31	41
KCAV4-35-20C	31	1 1/4	-20	31.8	M45x2	35	120	32	50
KCAV4-42-24C	38	1 1/2	-24	38.1	M52x2	42	128	35	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
KC9V4-20-12C	19	3/4	-12	19.1	M30x2	20	88	26	36
KC9V4-25-12C	19	3/4	-12	19.1	M36x2	25	91	30.3	46
KC9V4-25-16C	25	1	-16	25.4	M36x2	25	103	30	46
KC9V4-30-16C	25	1	-16	25.4	M42x2	30	108	35	50
KC9V4-38-20C	31	1 1/4	-20	31.8	M52x2	38	126	38	60

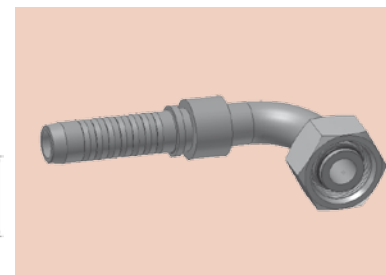
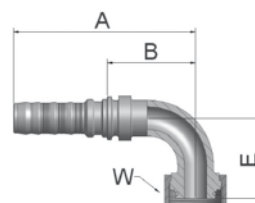
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 H29 H29ST H29TC R42 R42ST R42TC

1C Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

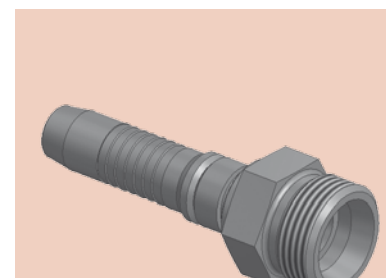
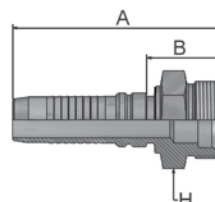
ISO 12151-2-SWE-S – DKOS 90°



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
K1CV4-20-10C	16	5/8	-10	15.9	M30x2	20	112	52.3	50	36
K1CV4-25-12C	19	3/4	-12	19.1	M36x2	25	126	65	59	46
K1CV4-25-16C	25	1	-16	25.4	M36x2	25	150	77	69	46
K1CV4-30-16C	25	1	-16	25.4	M42x2	30	151	77.7	69	50
K1CV4-38-20C	31	1 1/4	-20	31.8	M52x2	38	187	98.7	78	60

D2 Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
KD2V4-25-12C	19	3/4	-12	19.1	M36x2	25	98	36.3	36
KD2V4-30-16C	25	1	-16	25.4	M42x2	30	115	41.7	46
KD2V4-38-20C	31	1 1/4	-20	31.8	M52x2	38	135	46.7	55

Approved **fitting series** for hose types:

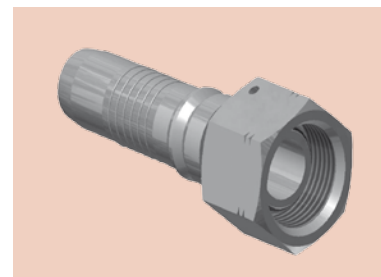
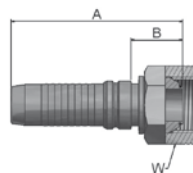
Also available in steel. Details can be found in CAT 4400/UK

 H29 H29ST H29TC R42 R42ST R42TC

EA

BSP Swivel Female with O-Ring (60° Cone)

BS 5200 – ISO 12151-6 – DKOR

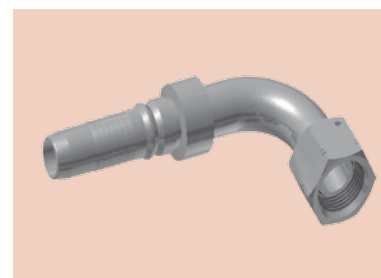
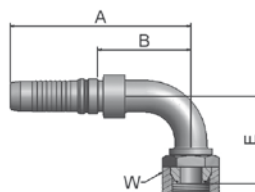


XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
KEAV4-12-12C	19	3/4	-12	19.1	3/4x14	84	22	32
KEAV4-16-16C	25	1	-16	25.4	1x11	104	31	41

EC

BSP Swivel Female with O-Ring 90° Elbow (60° Cone)

BS 5200 – ISO 12151-6 – DKOR 90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
KECV4-12-12C	19	3/4	-12	19.1	3/4x14	125	63	55	32
KECV4-16-16C	25	1	-16	25.4	1x11	150	77	72	41

Approved **fitting series** for hose types:

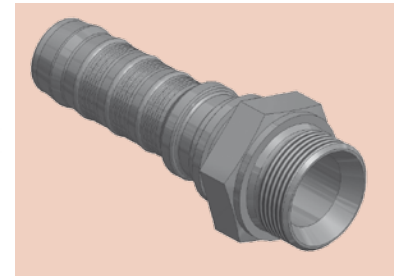
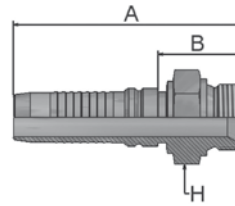
Also available in steel. Details can be found in CAT 4400/UK

 H29 H29ST H29TC R42 R42ST R42TC

D9

**Male BSP Parallel Pipe
Rigid – Straight (60° Cone)**

BS5200 – AGR



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	H mm
	DN	Inch	Size	mm				
KD9V4-12-12C	19	3/4	-12	19.1	3/4x14	99	37.3	32
KD9V4-16-16C	25	1	-16	25.4	1x11	115	42.7	41

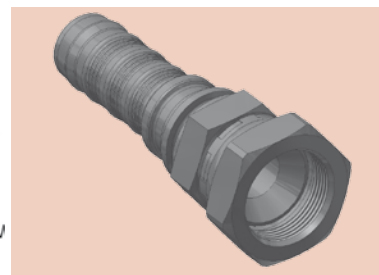
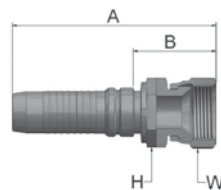
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 H29 H29ST H29TC R42 R42ST R42TC

06 Female JIC 37° – Swivel Straight

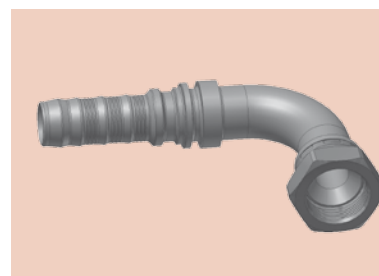
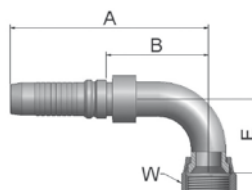
ISO12151-5-SWS – DKJ



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
K06V4-12-12C	19	3/4	-12	19.1	1-1/16x12	105	43	30	32
K06V4-16-16C	25	1	-16	25.4	1-5/16x12	122	50	36	41

39 Female JIC 37° – Swivel 90° Elbow

ISO 12151-5-SWES – DKJ 90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
K39V4-12-12C	19	3/4	-12	19.1	1-1/16x12	125	63.3	48	32
K39V4-16-16C	25	1	-16	25.4	1-5/16x12	150	77.7	56	41
K39V4-20-20C	31	1 1/4	-20	31.8	1-5/8x12	186	98	85	50

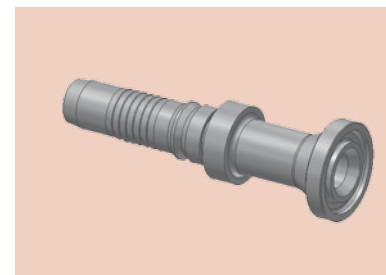
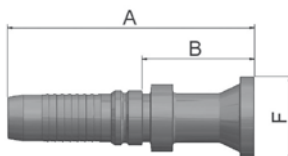
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 H29 H29ST H29TC R42 R42ST R42TC

15 SAE Code 61 – Flange Head Straight

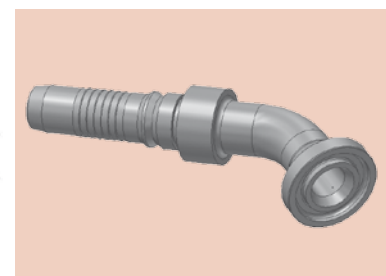
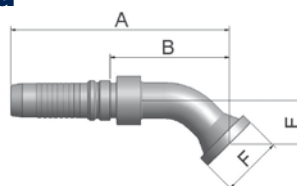
ISO 12151-3-S-L – SFL
3000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
K15V4-12-12C	19	3/4	-12	19.1	3/4	119	58	38
K15V4-16-12C	19	3/4	-12	19.1	1	100	38.3	45
K15V4-16-16C	25	1	-16	25.4	1	133	61	45
K4AV4-20-16C	25	1	-16	25.4	1 1/4	101	28	51
K4AV4-20-20C	31	1 1/4	-20	31.8	1 1/4	160	72	51
K4AV4-24-20C	31	1 1/4	-20	31.8	1 1/2	126	38.7	60
K4AV4-24-24C	38	1 1/2	-24	38.1	1 1/2	190	97	60
K4AV4-32-24C	38	1 1/2	-24	38.1	2	149	56	71

17 SAE Code 61 – Flange Head 45° Elbow

ISO 12151-3 – E45 – L – SFL 45°
3000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K17V4-12-12C	19	3/4	-12	19.1	3/4	133	72	26	38
K17V4-16-12C	19	3/4	-12	19.1	1	133	72	26	45
K17V4-16-16C	25	1	-16	25.4	1	160	87	32	45
K4FV4-20-16C	25	1	-16	25.4	1 1/4	160	87	32	51
K4FV4-20-20C	31	1 1/4	-20	31.8	1 1/4	198	109.7	38	51
K4FV4-24-20C	31	1 1/4	-20	31.8	1 1/2	198	109.7	38	60
K4FV4-24-24C	38	1 1/2	-24	38.1	1 1/2	222	128.9	44	60
K4FV4-32-24C	38	1 1/2	-24	38.1	2	222	128.9	44	71

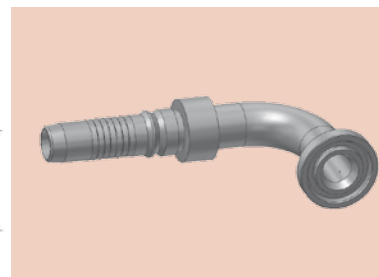
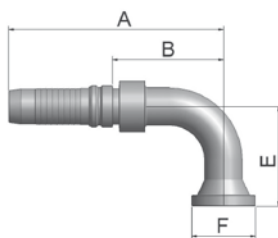
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 H29 H29ST H29TC R42 R42ST R42TC

19 SAE Code 61 – Flange Head 90° Elbow

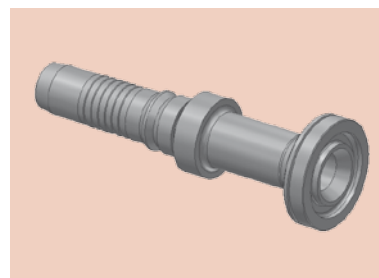
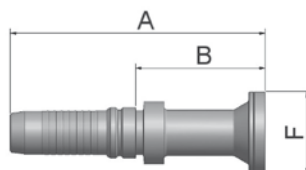
ISO 12151-3 – E– L – SFL 90°
3000 psi



XXXXX-XX-XX Part Number 	Hose I.D.				 Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K19V4-12-12C	19	3/4	-12	19.1	3/4	125	63.3	58	38
K19V4-16-12C	19	3/4	-12	19.1	1	125	63.3	58	45
K19V4-16-16C	25	1	-16	25.4	1	150	77.7	70	45
K4NV4-20-16C	25	1	-16	25.4	1 1/4	150	77	69	51
K4NV4-20-20C	31	1 1/4	-20	31.8	1 1/4	186	98.2	90	51
K4NV4-24-20C	31	1 1/4	-20	31.8	1 1/2	186	98	90	60
K4NV4-24-24C	38	1 1/2	-24	38.1	1 1/2	210	116.9	104	60
K4NV4-32-24C	38	1 1/2	-24	38.1	2	210	116.9	104	71

6A SAE Code 62 Flange Straight

ISO 12151-3-S-S – SFS
6000 psi



XXXXX-XX-XX Part Number 	Hose I.D.				 Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
K6AV4-12-12C	19	3/4	-12	19.1	3/4	126	64.4	41
K6AV4-16-12C	19	3/4	-12	19.1	1	100	38	48
K6AV4-16-16C	25	1	-16	25.4	1	148	75	48
K6AV4-20-16C	25	1	-16	25.4	1 1/4	116	44	54
K6AV4-20-20C	31	1 1/4	-20	31.8	1 1/4	166	78	54
K6AV4-24-20C	31	1 1/4	-20	31.8	1 1/2	139	51	64
K6AV4-24-24C	38	1 1/2	-24	38.1	1 1/2	192	99	64
K6AV4-32-24C	38	1 1/2	-24	38.1	2	184	91	79

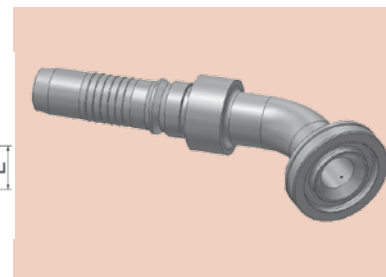
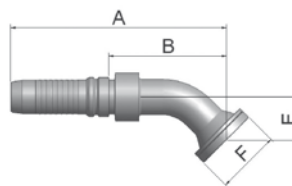
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 H29 H29ST H29TC R42 R42ST R42TC

6F SAE Code 62 Flange 45° Elbow – Heavy Series

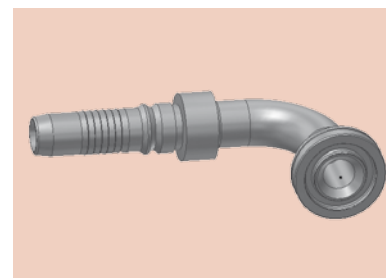
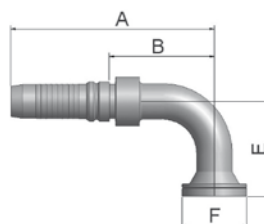
ISO 12151-3 – E45-S – SFS 45°
6000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				 Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K6FV4-12-12C	19	3/4	-12	19.1	3/4	133	72	26	41
K6FV4-16-12C	19	3/4	-12	19.1	1	133	71.3	26	48
K6FV4-16-16C	25	1	-16	25.4	1	160	87	32	48
K6FV4-20-16C	25	1	-16	25.4	1 1/4	161	88.7	32	54
K6FV4-20-20C	31	1 1/4	-20	31.8	1 1/4	198	109.7	38	54
K6FV4-24-20C	31	1 1/4	-20	31.8	1 1/2	198	109.7	38	64
K6FV4-24-24C	38	1 1/2	-24	38.1	1 1/2	222	128.9	44	64
K6FV4-32-24C	38	1 1/2	-24	38.1	2	222	128.9	44	79

6N SAE Code 62 Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
6000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				 Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K6NV4-12-12C	19	3/4	-12	19.1	3/4	125	63.3	58	41
K6NV4-16-12C	19	3/4	-12	19.1	1	125	63.3	58	48
K6NV4-16-16C	25	1	-16	25.4	1	150	77.7	70	48
K6NV4-20-16C	25	1	-16	25.4	1 1/4	154	81	70	54
K6NV4-20-20C	31	1 1/4	-20	31.8	1 1/4	186	98.7	90	54
K6NV4-24-20C	31	1 1/4	-20	31.8	1 1/2	186	98.7	90	64
K6NV4-24-24C	38	1 1/2	-24	38.1	1 1/2	210	116.9	104	64
K6NV4-32-24C	38	1 1/2	-24	38.1	2	210	116.9	104	79

Approved **fitting series** for hose types:

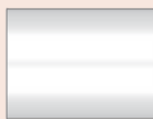
Also available in steel. Details can be found in CAT 4400/UK



H29 H29ST H29TC R42 R42ST R42TC

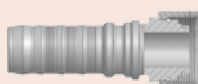
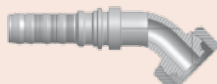
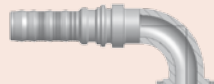
Shell

Page Dd-1

V6**Dd-1**Interlock
In-/Outside Skive
6 Wire Hoses

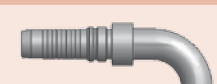
DIN – Metric

Page Dd-2 – Dd-3

C9**Dd-2**Female Metric 24° – Swivel
Heavy Series with O-Ring
Straight
ISO 12151-2-SWS-S – DKOS**0C****Dd-2**Female Metric 24° – Swivel
Heavy Series with O-Ring
45° Elbow
ISO 12151-2 – SWE 45°-S – DKOS 45°**1C****Dd-3**Female Metric 24° – Swivel
Heavy Series with O-Ring
90° Elbow
ISO 12151-2-SWE-S – DKOS 90°**D2****Dd-3**Male Metric 24° – Rigid
Heavy Series – Straight
ISO 12151-2-S-S – CES

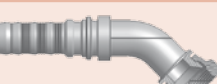
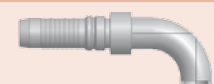
BSP

Page Dd-4 – Dd-5

EA**Dd-4**BSP Swivel Female
with O-Ring (60° Cone)
BS 5200 – ISO 12151-6 – DKOR**EC****Dd-4**BSP Swivel Female
with O-Ring
90° Elbow (60° Cone)
BS 5200 – ISO 12151-6 – DKOR 90°**D9****Dd-5**Male BSP Parallel Pipe
Rigid – Straight (60° Cone)
BS5200 – AGR

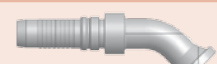
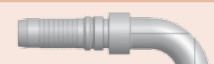
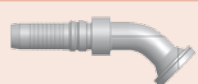
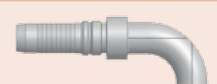
SAE

Page Dd-6 – Dd-7

06**Dd-6**Female JIC 37° – Swivel
Straight
ISO12151-5-SWS – DKJ**37****Dd-6**Female JIC 37° – Swivel
45° Elbow
ISO 12151-5-SWE 45° – DKJ 45°**39****Dd-7**Female JIC 37° – Swivel
90° Elbow
ISO 12151-5-SWES – DKJ 90°

Flange

Page Dd-8 – Dd-10

4A**Dd-8**SAE Code 61 Flange
Straight
ISO 12151-3-S-L – SFL
5000 psi**4F****Dd-8**SAE Code 61 Flange
45° Elbow
ISO 12151-3 – E45S – L – SFL 45°
5000 psi**4N****Dd-9**SAE Code 61 Flange
90° Elbow
ISO 12151-3-E-L – SFL 90°
5000 psi**6A****Dd-9**SAE Code 62 Flange
Straight
ISO 12151-3-S-S – SFS
6000 psi**6F****Dd-10**SAE Code 62 Flange
45° Elbow – Heavy Series
ISO 12151-3 – E45-S – SFS 45°
6000 psi**6N****Dd-10**SAE Code 62 Flange
90° Elbow
ISO 12151-3 – E-S – SFS 90°
6000 psi

Fittings Pressure Ratings

Fitting end connection	Description	Inch fittings (size) Maximum working pressure (MPa) – safety factor 4:1											
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48
EA, EC	BSP swivel female with O-ring	40.0		40.0	35.0	35.0	31.5	25.0	20.0	16.0	12.5		
D9	BSP male	63.0		55.0	43.0		35.0	28.0	25.0	21.0	21.0		
06, 37, 39	SAE (JIC) 37° swivel female	41.0	41.0	34.5	34.5	34.5	34.5	27.5	20.0	17.0	17.0		
4A, 4N, 4F	SAE flange 5000 psi								34.5	34.5	34.5		
6A, 6F, 6N	SAE flange Code 62 6000 psi				41.0		41.0	41.0	41.0	41.0	41.0		

Fitting end connection	Description	Metric tube (mm) • Heavy series – S Maximum working pressure (MPa) – safety factor 4:1									
		6	8	10	12	14	16	20	25	30	38
C9, 1C, 0C	Swivel female DIN 20066:2002-10 with O-ring, Form P	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0
D2	Male stud	63.0	63.0	63.0	63.0	63.0	42.0	42.0	42.0	42.0	42.0

V6**Interlock
In-/Outside Skive**

6 Wire Hoses



Only for use with
adjustable crimpers.
Minimum of
340 tons crimping
force required.

XXXXX-XX-XX Part Number V6	 Hose I.D.				B mm
	DN	Inch	Size	mm	
100V6-20C	31	1 1/4	-20	31.8	90
100V6-24C	38	1 1/2	-24	38.1	96
100V6-32C	51	2	-32	50.8	110

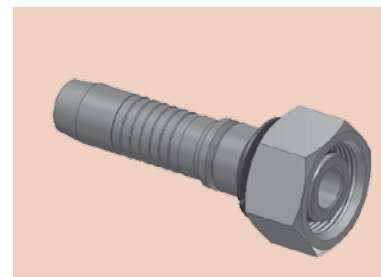
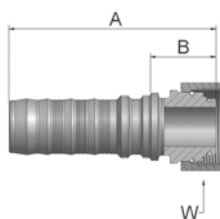
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK


R42 R42ST R42TC

C9 Female Metric 24° – Swivel Heavy Series with O-Ring Straight

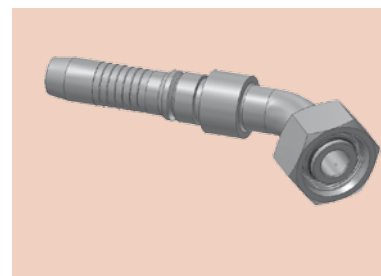
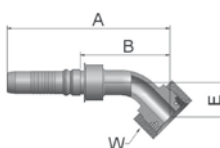
ISO 12151-2-SWS-S – DKOS



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
KC9V6-30-20C	31	1 1/4	-20	31.8	M42x2	30	131.5	41.5	50
KC9V6-38-20C	31	1 1/4	-20	31.8	M52x2	38	135	44	60
KC9V6-38-24C	38	1 1/2	-24	38.1	M52x2	38	139	43	60

OC Female Metric 24° – Swivel Heavy Series with O-Ring 45° Elbow

ISO 12151-2 – SWE 45°-S – DKOS 45°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
K0CV6-30-20C	31	1 1/4	-20	31.8	M42x2	30	184	93	34	50
K0CV6-38-20C	31	1 1/4	-20	31.8	M52x2	38	187	96.3	37	60
K0CV6-38-24C	38	1 1/2	-24	38.1	M52x2	38	226	130	49	60

Approved **fitting series** for hose types:

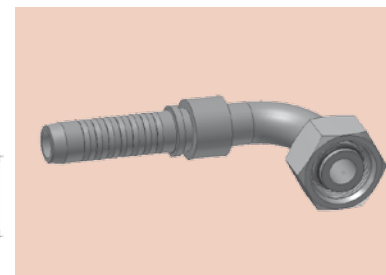
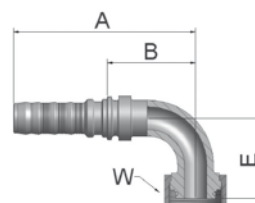
Also available in steel. Details can be found in CAT 4400/UK

 R42 R42ST R42TC

1C

Female Metric 24° – Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

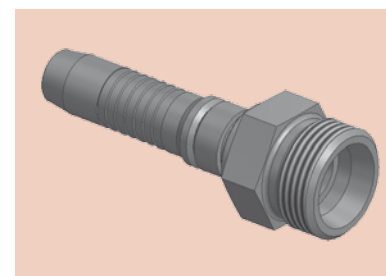
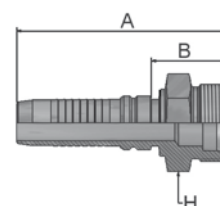


XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
K1CV6-30-20C	31	1 1/4	-20	31.8	M42x2	30	169	78	69	50
K1CV6-38-20C	31	1 1/4	-20	31.8	M52x2	38	177	86.3	78	60
K1CV6-38-24C	38	1 1/2	-24	38.1	M52x2	38	209	113	101	60

D2

Male Metric 24° – Rigid Heavy Series – Straight

ISO 12151-2-S-S – CES



XXXXXX-XX-XX Part Number 	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
KD2V6-30-20C	31	1 1/4	-20	31.8	M42x2	30	140	59	46
KD2V6-38-20C	31	1 1/4	-20	31.8	M52x2	38	142	51	55
KD2V6-38-24C	38	1 1/2	-24	38.1	M52x2	38	151	55	55

Approved **fitting series** for hose types:

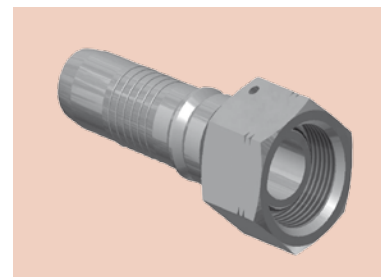
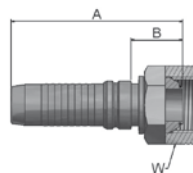
Also available in steel. Details can be found in CAT 4400/UK

 **R42 R42ST R42TC**

EA

BSP Swivel Female with O-Ring (60° Cone)

BS 5200 – ISO 12151-6 – DKOR

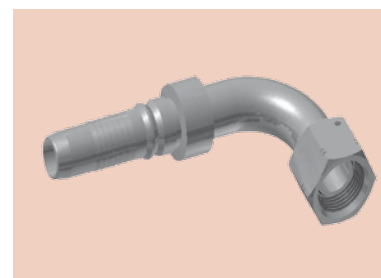
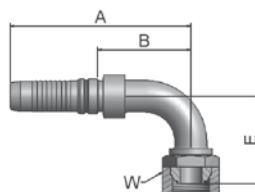


XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
KEAV6-20-20C	31	1 1/4	-20	31.8	1-1/4x11	126	35	50
KEAV6-24-24C	38	1 1/2	-24	38.1	1-1/2x11	134	38	55
KEAV6-32-32C	51	2	-32	50.8	2x11	149	39	70

EC

BSP Swivel Female with O-Ring 90° Elbow (60° Cone)

BS 5200 – ISO 12151-6 – DKOR 90°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
KECV6-20-20C	31	1 1/4	-20	31.8	1-1/4x11	177	86	75	50
KECV6-24-24C	38	1 1/2	-24	38.1	1-1/2x11	209	113	103	55
KECV6-32-32C	51	2	-32	50.8	2x11	268	157	147	70

Approved **fitting series** for hose types:

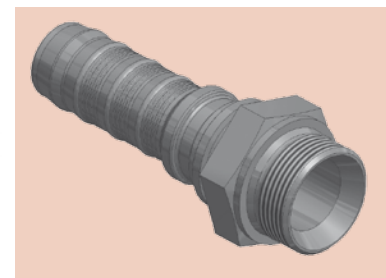
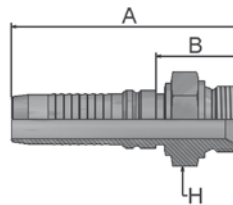
Also available in steel. Details can be found in CAT 4400/UK

 **R42 R42ST R42TC**

D9

**Male BSP Parallel Pipe
Rigid – Straight (60° Cone)**

BS5200 – AGR



XXXXX-XX-XX Part Number 	Hose I.D.				Thread BSP	A mm	B mm	H mm
	DN	Inch	Size	mm				
KD9V6-20-20C	31	1 1/4	-20	31.8	1-1/4x11	139	48	50
KD9V6-24-24C	38	1 1/2	-24	38.1	1-1/2x11	155	58	55
KD9V6-32-32C	51	2	-32	50.8	2x11	168	58	70

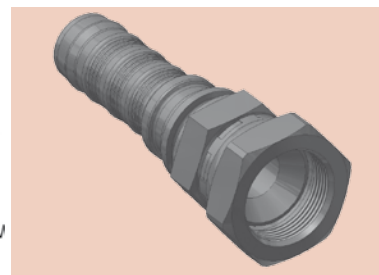
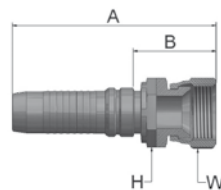
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **R42 R42ST R42TC**

06 Female JIC 37° – Swivel Straight

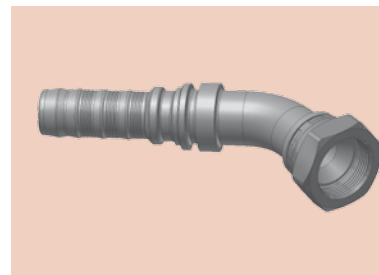
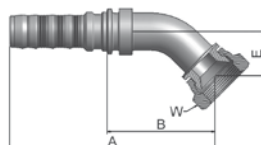
ISO12151-5-SWS – DKJ



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
K06V6-20-20C	31	1 1/4	-20	31.8	1-5/8x12	154	63	46	50
K06V6-24-24C	38	1 1/2	-24	38.1	1-7/8x12	163	67	50	60
K06V6-32-32C	51	2	-32	50.8	2-1/2x12	188	77	65	75

37 Female JIC 37° – Swivel 45° Elbow

ISO 12151-5-SWE 45° – DKJ 45°



XXXXX-XX-XX Part Number 	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
K37V6-20-20C	31	1 1/4	-20	31.8	1-5/8x12	192	101	42	50
K37V6-24-24C	38	1 1/2	-24	38.1	1-7/8x12	235	139	58	60
K37V6-32-32C	51	2	-32	50.8	2-1/2x12	290	180	72	75

Approved **fitting series** for hose types:

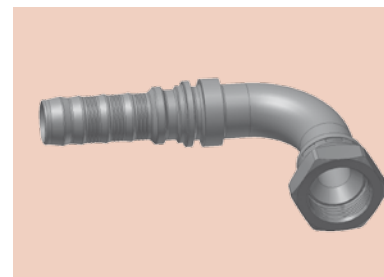
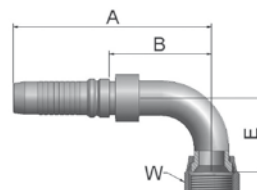
Also available in steel. Details can be found in CAT 4400/UK

 R42 R42ST R42TC

39

Female JIC 37° – Swivel 90° Elbow

ISO 12151-5-SWES – DKJ 90°



XXXXX-XX-XX Part Number 	 Hose I.D.				 Thread UNF		 A		 B		 E		 W	
	DN	Inch	Size	mm			mm		mm		mm		mm	
K39V6-20-20C	31	1 1/4	-20	31.8	1-5/8x12		177		86		85		50	
K39V6-24-24C	38	1 1/2	-24	38.1	1-7/8x12		209		113		102		60	
K39V6-32-32C	51	2	-32	50.8	2-1/2x12		268		157		152		75	

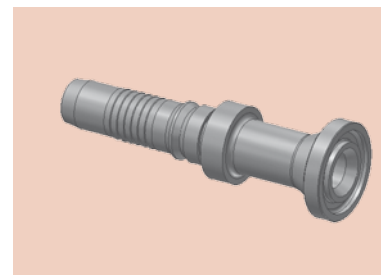
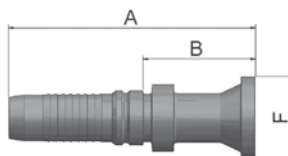
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **R42 R42ST R42TC**

4A SAE Code 61 Flange Straight

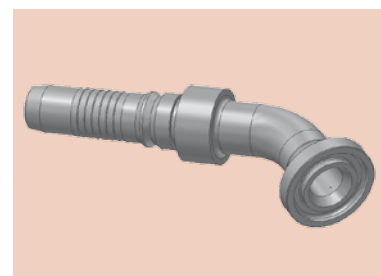
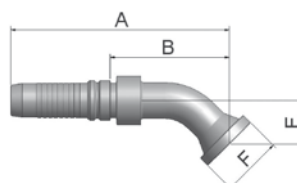
ISO 12151-3-S-L – SFL
5000 psi



XXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
K4AV6-20-20C	31	1 1/4	-20	31.8	1 1/4	167	76	51
K4AV6-24-20C	31	1 1/4	-20	31.8	1 1/2	165	74	60
K4AV6-24-24C	38	1 1/2	-24	38.1	1 1/2	201	105	60
K4AV6-32-24C	38	1 1/2	-24	38.1	2	159	63	71

4F SAE Code 61 Flange 45° Elbow

ISO 12151-3 – E45S – L – SFL 45°
5000 psi



XXXXX-XX-XX Part Number 	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K4FV6-20-20C	31	1 1/4	-20	31.8	1 1/4	188	97	38	51
K4FV6-24-20C	31	1 1/4	-20	31.8	1 1/2	188	97	38	60
K4FV6-24-24C	38	1 1/2	-24	38.1	1 1/2	221	125	44	60
K4FV6-32-24C	38	1 1/2	-24	38.1	2	221	125	44	71

Approved **fitting series** for hose types:

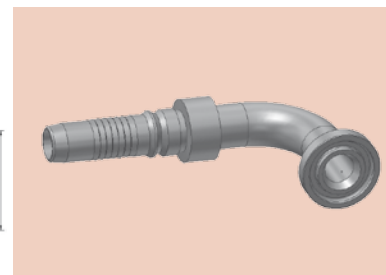
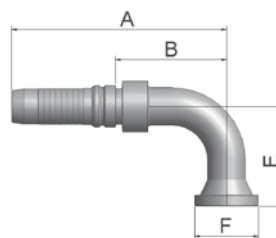
Also available in steel. Details can be found in CAT 4400/UK

 R42 R42ST R42TC

4N

SAE Code 61 Flange 90° Elbow

ISO 12151-3-E-L – SFL 90°
5000 psi

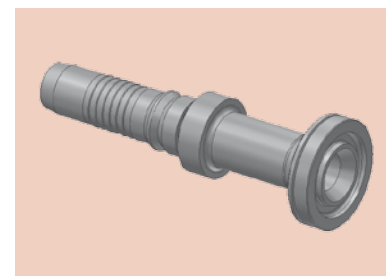
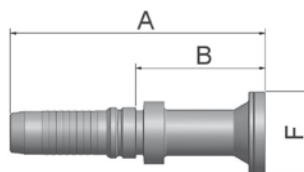


XXXXXX-XX-XX Part Number 	Hose I.D.				 Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K4NV6-20-20C	31	1 1/4	-20	31.8	1 1/4	177	86	90	51
K4NV6-24-20C	31	1 1/4	-20	31.8	1 1/2	177	86	90	60
K4NV6-24-24C	38	1 1/2	-24	38.1	1 1/2	209	113	104	60
K4NV6-32-24C	38	1 1/2	-24	38.1	2	209	113	104	71

6A

SAE Code 62 Flange Straight

ISO 12151-3-S-S – SFS
6000 psi



XXXXXX-XX-XX Part Number 	Hose I.D.				 Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
K6AV6-20-20C	31	1 1/4	-20	31.8	1 1/4	175	83	54
K6AV6-24-20C	31	1 1/4	-20	31.8	1 1/2	147	56	64
K6AV6-24-24C	38	1 1/2	-24	38.1	1 1/2	202	106	64
K6AV6-32-24C	38	1 1/2	-24	38.1	2	194	98	79
K6AV6-32-32C	51	2	-32	50.8	2	233	122	79

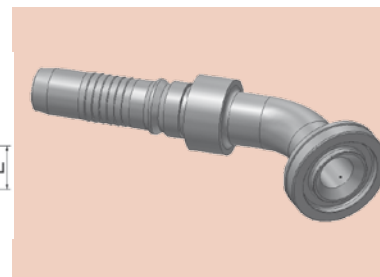
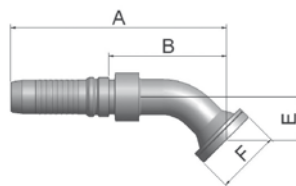
Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **R42 R42ST R42TC**

6F SAE Code 62 Flange 45° Elbow – Heavy Series

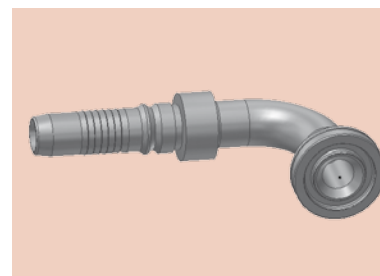
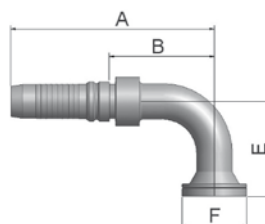
ISO 12151-3 – E45-S – SFS 45°
6000 psi



XXXXX-XX-XX Part Number 	 Hose I.D.				 Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K6FV6-20-20C	31	1 1/4	-20	31.8	1 1/4	189	97.3	38	54
K6FV6-24-20C	31	1 1/4	-20	31.8	1 1/2	189	97.3	38	64
K6FV6-24-24C	38	1 1/2	-24	38.1	1 1/2	221	125.3	44	64
K6FV6-32-24C	38	1 1/2	-24	38.1	2	221	125.3	44	79
K6FV6-32-32C	51	2	-32	50.8	2	274	163.3	56	79

6N SAE Code 62 Flange 90° Elbow

ISO 12151-3 – E-S – SFS 90°
6000 psi



XXXXX-XX-XX Part Number 	 Hose I.D.				 Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K6NV6-20-20C	31	1 1/4	-20	31.8	1 1/4	177	86.3	90	54
K6NV6-24-20C	31	1 1/4	-20	31.8	1 1/2	177	86.3	90	64
K6NV6-24-24C	38	1 1/2	-24	38.1	1 1/2	210	113.3	104	64
K6NV6-32-24C	38	1 1/2	-24	38.1	2	209	113.3	104	79
K6NV6-32-32C	51	2	-32	50.8	2	268	157.3	138	79

Approved **fitting series** for hose types:

Also available in steel. Details can be found in CAT 4400/UK

 **R42 R42ST R42TC**



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



Hydraulic Hose Fittings in Stainless Steel

Machines, Tooling, Accessories



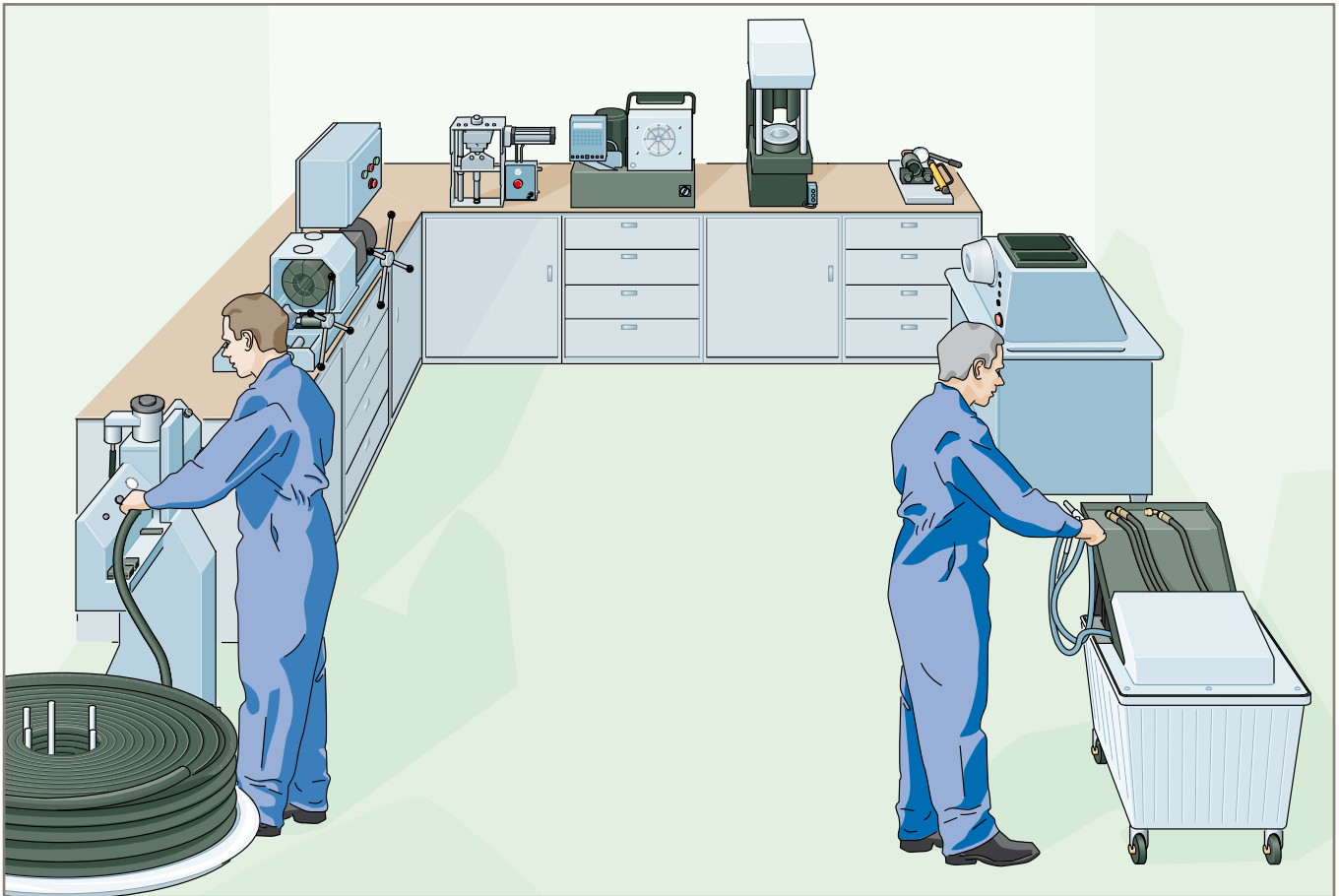
ENGINEERING YOUR SUCCESS.

Hydraulic Hose Assembly Workshop Equipment

– meeting the demands of professional hose assembly manufacture

Hose assemblies must be manufactured in conformity with all the relevant EN/ISO standards and with the requirements of various work safety and trade associations.

Hose Products Division Europe has selected and developed a complete range of machines and tooling to ensure effective and safe production of hose assemblies. This can be achieved only when equipment designed for the purpose is used.



The programme includes the right tools for cutting hoses and for the crimping, marking and cleaning of hose assemblies; also, last but not least, appropriate hose assembly testing equipment, all of which allow production of ready-to-install Parkrimp No-Skive and ParLock hose assemblies.

Hydraulic Hose Assembly Workshop Equipment



Hose Cut-Off Machine
TH 3-14



Hose Cut-Off Machine TH 3-2

The Parker range of Parkrimp machines and crimping machine technology are recognised industry-wide as the easiest and most accurate crimping system available.



Hose Assembly
Test Bench TH5-3



Hose Reel TH7-12



Cleaning System
TH6-6

Parkrimp® *No-Skive*

The system for fast and leak-free assemblies

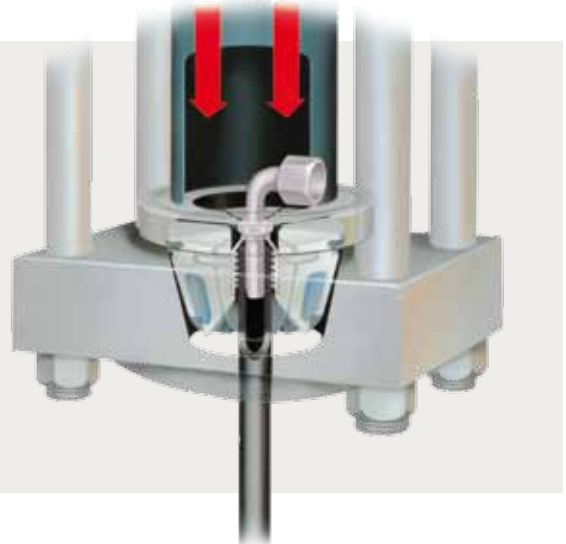
Hose fittings have an impact on the overall efficiency and safety of a hydraulic system.

The No-Skive concept was launched by Parker Hannifin some 30 years ago but

continuous development and the use of modern materials and production techniques have resulted in a state-of-the-art hose to fitting connection. Much easier handling and a high level of safety

are available with No-Skive crimp fittings. Parker offers No-Skive fittings in one and two pieces as part of a package consisting of quality hose, No-Skive fittings, hose crimpers and tooling.

Parkrimp *No-Skive* one-piece fittings



Parkrimp® No-Skive

- No skiving tool needed
- No need to remove the cover
- Crimps one-piece fittings
- Parkalign positions the fittings in the die perfectly every time
- Quick and easy: no gauges to set on the machine
- Portable machines for field repair
- Meets EN safety regulations

Modular Design = Portable + Bench Mount

Parker's Hose Products Division Europe introduces two new Parkrimp-style modular crimpers – KarryKrimp 1 and the KarryKrimp 2. The new modular design enables the customer to

choose between the portability that Parker KarryKrimp crimpers have always offered, and the new option to make these same crimpers bench mount units.

The modular design gives users the flexibility of a portable crimper with the advantage of increased productivity when connected to the Bench Power Unit 85CE-1PE.

Modular Parkrimp crimpers for *No-Skive* one-piece fittings



KarryKrimp® 1

KarryKrimp® 1
Bench Mount

KarryKrimp® 2

KarryKrimp® 2
Bench Mount

ParLock Hose and Fittings

The high-performance skiving system

Certain customers and applications stipulate the usage of multi-spiral hose assemblies with external/internal skive-type fittings. With the ParLock hose and fitting range, Parker meets this demanding market requirement.

Parker adjustable crimpers for two-piece fittings ensure precise, leak-free and tear-proof assembly of hose and fitting.

- High flex-impulse applications
- High vibration applications

- The ParLock design is approved by the German Accident Prevention & Insurance Association (Berufsgenossenschaft) conforming to EN 201 (approved for injection-moulding machine applications)

ParLock two-piece skive fittings



Hose skiving machine TH2-13-3PH

The ParLock System

- A full range of multi-spiral hoses to ISO 3862 (4SP to R15)
- Field-tested, proven reliability
- Hose and fitting combinations giving performance that exceeds ISO/EN requirements
- Approved hose and fitting compatibility "one manufacturer, one source"

Adjustable crimpers for two-piece ParLock skive fittings



TH8E-530

TH8E-380-BM

TH8-800-BM

Hose Whip Restraint

Safety Restraining System for Pressure Hoses



- Prevents whipping of a pressurized hose in the event of the hose separating from its fitting
- The system consists of two parts – a hose collar and a cable assembly



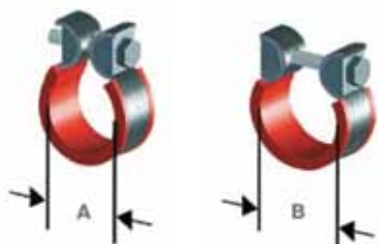
Parker's Hose Whip Restraint System is designed to prevent whipping of a pressurized hose in the event of the hose separating from its fitting. The Hose Whip Restraint System provides an additional level of safety and helps prevent damage to nearby equipment or injury to operators near the failed hose by limiting the whip or travel of the pressurized hose after it breaks free from its hose fitting. Serious damage or injury can occur from whipping hoses, especially at higher pressures.

The system consists of two parts – a hose collar and a cable assembly. The hose collar (WRCxx) is selected based on the outside diameter of the hose, and the cable assembly is selected based on the type of hose connection. Two types of cable assemblies are available – one for flange-type connections (WRFxxx), and the other for port adapters (WRAxxx).

The Hose Whip Restraint is not to be used in place of proper hose crimping procedures. Exceeding the maximum operating pressure of the hose jeopardizes the proper operation of the Hose Whip Restraint System.

Hose collars

for Hose Whip Restraint System



For more information about hose whip restraint please refer to catalogue CAT/4400 on page Eb-18

Cable Assemblies

for hoses attached with port adapters



Cable Assemblies

for hoses using flange-style connections (code 61 and code 62 flanges)



Protected hose assemblies live longer

In places where the hose assembly is exposed to severe mechanical strain, additional hose protectors such as guards, sleeves etc. have proven to be a good solution. The spring guards or armor guards, for example, prevent kinking of the hose and are the ideal protection against extreme abrasion or possible damage from the outside. Before the fitting is crimped to the hose, the guard needs to be pushed onto the hose – so please remember to order the guards together with your order of hose assembly components.

For some applications it is an advantage to bundle hose assemblies with plastic hose protector coils or sleeves so that they make compact units. For this purpose we recommend using PolyGuard protectors, ParKoil hose protectors and Partek Wraps. Partek Wraps hose sleeves are designed for bundling hose assemblies after installation.

Parker offers a broad range of accessories to work smarter, faster and better



Spring Guard & Armour Guard (SG & AG)

Parker spring guard and armour guard are two products that prolong the life of your hose lines that are exposed to rugged operating conditions. They distribute bending radii to avoid kinking in hose lines and protect hose from abrasion and deep cuts. Guards are constructed of steel wire and plated to resist rust. See page **Eb-9** and **Eb-10** in catalogue **CAT/4400**



PolyGuard & Parkoil (HG & PG)

Protect and bundle your hoses with these spiral guards that minimize kinking and cannot rust. Both the PolyGuard and Parkoil install without removing the hose. See page **Eb-14** and **Eb-15** in catalogue **CAT/4400**



Partek (AS & PS)

Nylon woven protective sleeving gives you tough hose abrasion resistance with two versions of coverage – standard “AS” and a lighter “PS” – both providing protection and bundling capability. See page **Eb-11** and **Eb-12** in catalogue **CAT/4400**



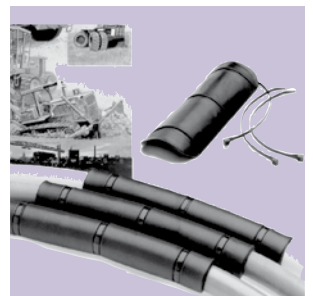
Firesleeve (FS-F)

A flame-resistant sheath that protects your hose from extremely high temperature conditions. See page **Eb-13** in catalogue **CAT/4400**



Partek Wrap (PS-BV)

The need for a protective hose sleeve is not always considered while designing for a hose's application. Many hose assembly installations would benefit from a sleeve, but it is not obvious until all the other hoses and components are in place. Partek Wrap enables the hose sleeve to be installed after the hose assemblies have been positioned and secured in place. The Partek Wrap can be used as extra abrasion protection or to wrap multiple hoses or cables together. See page **Eb-16** in catalogue **CAT/4400**



Hose Shields (HP-B)

Hose protection shields extend hose life by protecting the hose from abrasion that occurs when hose rubs against other hose, metal or concrete. Parker hose shields are resistant to oil, lubricants, gasoline, most solvents and can withstand ambient temperatures from -40 °C to +150 °C. Easily installed and secured by cable ties without disconnecting any hose lines. See page **Eb-17** in catalogue **CAT/4400**

Part Number	page	Part Number	page	Part Number	page
3CA82	B1b-1	KD247	Cd-5	30682	B1b-7
3CF82	B1b-1	K9247	Cd-6	36882	B1b-8
3D082	B1b-2	KB147	Cd-6	33982	B1b-8
3C382	B1b-2	KB247	Cd-7	33W82	B1b-8
3C482	B1b-3	KD947	Cd-7	10643	Cb-5
3C582	B1b-3	K0147	Cd-8	13943	Cb-5
31D82	B1b-4	K0347	Cd-8	16843	Cb-5
34982	B1b-4	K1547	Cd-10	13W43	Cb-5
39282	B1b-5	K1947	Cd-10	10648	Cc-7
3B282	B1b-5	K6A47	Cd-11		
3D982	B1b-6	K6N47	Cd-11		
39182	B1b-6	1CA70	Db-1		
30182	B1b-7	1CF70	Db-1		
3YW82	B1b-9	1D070	Db-2		
3AF82	B1b-9	1C970	Db-2		
1CA64	B2b-1	11C70	Db-3		
1CE64	B2b-1	1D270	Db-3		
1CF64	B2b-2	19270	Db-4		
1D064	B2b-2	1B270	Db-4		
1EA64	B2b-3	11570	Db-6		
1EB64	B2b-3	11970	Db-6		
1EC64	B2b-4	16A70	Db-7		
1D964	B2b-4	16N70	Db-7		
1CA43	Cb-1	100V4	Dc-1		
1CF43	Cb-1	KCAV4	Dc-2		
1D043	Cb-2	KC9V4	Dc-2		
1C943	Cb-2	K1CV4	Dc-3		
11C43	Cb-3	KD2V4	Dc-3		
1D243	Cb-3	KEAV4	Dc-4		
19243	Cb-4	KECV4	Dc-4		
1B243	Cb-4	KD9V4	Dc-5		
1JC43	Cb-6	K06V4	Dc-6		
1J943	Cb-6	K39V4	Dc-6		
1CA48	Cc-1	K15V4	Dc-7		
1CE48	Cc-1	K17V4	Dc-7		
1CF48	Cc-2	K19V4	Dc-8		
1D048	Cc-2	K6AV4	Dc-8		
1C948	Cc-3	K6FV4	Dc-9		
11C48	Cc-3	K6NV4	Dc-9		
1D248	Cc-4	100V6	Dd-1		
19248	Cc-5	KC9V6	Dd-2		
1B148	Cc-5	K0CV6	Dd-2		
1B248	Cc-6	K1CV6	Dd-3		
1D948	Cc-6	KD2V6	Dd-3		
10348	Cc-7	KEAV6	Dd-4		
11548	Cc-9	KECV6	Dd-4		
11948	Cc-9	KD9V6	Dd-5		
10046	Cd-1	K06V6	Dd-6		
10048	Cd-1	K37V6	Dd-6		
KCA47	Cd-2	K39V6	Dd-7		
KCE47	Cd-2	K4AV6	Dd-8		
KCF47	Cd-3	K4FV6	Dd-8		
KD047	Cd-3	K4NV6	Dd-9		
KC947	Cd-4	K6AV6	Dd-9		
K0C47	Cd-4	K6FV6	Dd-10		
K1C47	Cd-5	K6NV6	Dd-10		

Parker's Motion & Control Technologies

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



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



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



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



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



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
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero 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
- Agriculture
- 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.

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