

Quick couplings and manifolds assemblies for tempering and cooling



Let's design the Future liquid Cooling together!

Quick connect coupling system – efficient components in the area of thermal management

The requirements for quick connect couplings for tempering and thermal management are extremely high. Whether for applications in the area of renewable energies, for computer cooling, in transport or for industrial applications the coupling systems from Parker offer optimally tailored solutions.

Our systems stand out for their high level of compatibility with the broadest range of liquids (for example water or heat exchange oils) and the application environment.

Likewise, their resistance to mechanical stresses is vital. One of the most important requirements in the cooling of electronic systems is to prevent any fluid loss, as this is the only way to avoid major failure function of the installation.

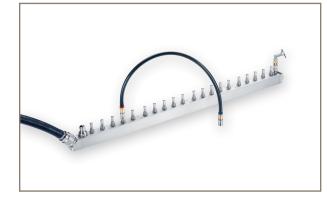
Our Value added:

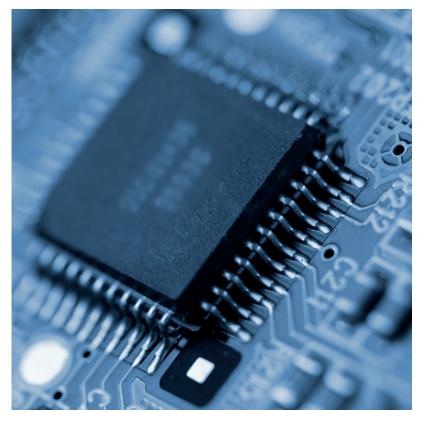
- Wide experience on various thermal management applications
- A global presence
- Customer engineering intimacy
- In-house engineering and manufacturing

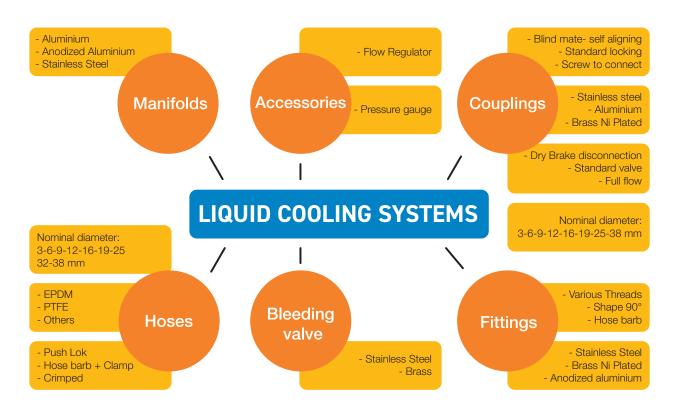
60 Years of Know-How

From standard product to customized solution – we meet your requirements

Energy efficiency and compact design play a major role in thermal management applications. As a result of the low pressure drop of our coupling systems, we take energy saving into account at the same time as optimal performance. Reducing the sizes of our couplings allows their use in the most confined spaces. The flat-sealing valve design reliably prevents any fluid loss during the coupling and uncoupling process, thereby protecting the sensitive electronics and all electrical connections. For switchboards, we have developed a special coupling system (RNS series), which makes coupling and locking the cooling circuits on the racks considerably easier. Highly resistant materials and surface finishes equip our products for use under high mechanical loads.









- ▲ Manifolds as a customized solution.
- ▲ Flat-sealing valve design prevents spillage.

Be ensure that the know-how we have acquired from over 60 years in the development and production of quick connect couplings guarantees a reliable and efficient solution for your requirement.

The right Solution for every Sector

Complex tasks demand suitable and efficient solutions not least in the area of quick connect coupling systems

The topic of cooling is a critical factor in a lot of industries today. It is responsible for adequate temperatures in computers, in the electronic racks, on the tool or on the machine itself. All production and the product lifecycle of elements and machines are based on how effectively the cooling process is configured and ensures ideal operating temperatures.

In these cooling circuits, it comes down not least to the efficient performance of all components. Companies demand maximum reliability and maximum efficiency coupled with durability and compact design. At first glance, these are often contradictory objectives, which demand solutions including modern materials and innovative design.

Therefore we employ the knowledge we acquired in the area of thermal management during the last decades to meet our customers requirements..



Mobile & Transportation

Rapidly increasing flows of goods and further increases in mobility demand extremely reliable and efficient vehicle concepts.

Here, the cooling of diesel-powered and electrically driven rail vehicles is highly important, and we provide light weight couplings and connection products adapted



Information Technologies

Processors (microprocessors) generate waste of heat when operating. This result in overheating of the unit, which can cause malfunction up to the point of destruction of components.

A cooling system is then mandatory to enhance a quick heat waste dissolution. Small dissipation areas and high

temperatures demand optimized and highly efficient solutions. As water is 30 times more efficient than air, we provide support to our customers to build complete systems for water cooling for high performance computers, data Centers, microelectronics and telecomunication applications.



different industries.

Quick connect couplings are used in liquid cooling systems both for cooling tools in the production process and for the machine itself. Therefore, Parker provides solu-



Energy Management

Our knowledge in the use of quick connect couplings in the area of solar and wind energy allows the development of bespoke solutions anytime cooling circuits are needed/required. For example, intelligent solutions are vital because of the constantly improving performance of the new generation of energy production plants

based on high-performance cooling circuits with liquid.

Here, our systems are optimally geared to the parameters of pressure, flow and temperature. As the systems are often used in salty sea air, corrosion-resistant materials are essential.



Based on more than 60 years experience, our products are designed to operate for all kind of thermal management applications. We will be happy to support for the development of your system within any industry and design the future together.

to this application. More recently the environmental care drives more and more to the usage of electrical vehicles and ships. Our products are part of the systems built for the liquid cooling of the batteries.

Industrial Applications

From the individual machine to production lines and high-performance lasers, cooling is present in

tions for liquid cooling and tempering for all types of industries, as semiconductors, laser projectors, plastic industry, electronics (inverters, converters), etc.

Others

Thermal Management Range at a Glance

Find the ideal product for your application



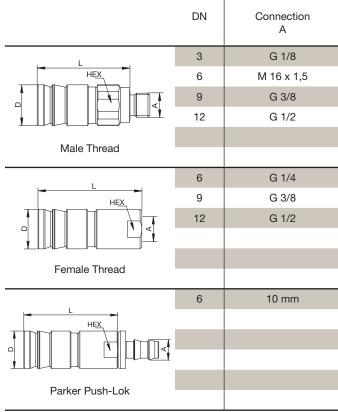
	NSI-Series	NSG-Series	UQD-Series	NSE-Series	NSA-Series	60-Series	ST-Series	Self Aligning - Blind mate couplings - NSIC/NSAC/NSEC	NSSC-Series	Customized System Solutions - MND Series
Valves Dry Break	yes	yes	yes	yes	yes	no	no valves	yes	yes	possible
Working Pressure	20 bar	11 bar	11 bar	15 bar	20 bar	20 bar	20 bar	20 bar	10 bar	up to 15 bar
Nominal Diameter (mm)	3/6/9/12	3	3.2/6.4	16/19/25	6/8/10/12/19/25	6/9/12/19/25/32	6/9/12/19/25	3/6/9/25	6/25/32	
Technical Description	 Two-hand operation Push to connect version available on request 	 Two-hand operation Push to connect version available on request 	 Fully interchange- able with other Intel-approved UQD suppliers 	 Two-hand operation Reduced dimensions compared to flow capacities 	Extreme lightweight (Aluminium)	• Two-hand operation	 Two-hand operation No valve	 Blind connection ± 1,5 mm misalignment allowed 	 Two-hand operation Screw to connect couplings with flat face valves. 	Parker offers manifolds using RNS or cartridge couplings for blind mate connections
Material (Coupling Body)	Brass/Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Anodized Aluminium	Stainless Steel	Stainless Steel	Stainless steel /Aluminium /Brass nickel plated	Stainless Steel/Steel Zinc plated	on request
Seals (other seal variants on request)	FKM/EPDM	EPDM	EPDM	FKM/EPDM	Fluorosilicone	NBR/EPDM	Nitrile	FKM/EPDM	EPDM	on request
Working Temperature	-20°C up to +200°C (FKM)	-55°C up to +120°C	-55°C up to +120°C	-20°C up to +200°C (FKM)	-50°C up to +175°C (Fluorosilicone)	-20°C up to +120°C	-20°C up to +120°C	-20°C up to +200°C (FKM)	-55°C up to +120°C	following seals material requested



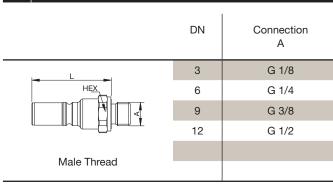
Nominal Diameter 3/6/9/12

Parker Series

NSI



🥪 Plugs



¹ End connection according to ISO1179-2 ED seal ² End connection according to DIN 2353 24°cone

Technical Description

The NSI are dry-break couplings with flat face valves. The compact design makes them suitable for reduced spaces. Coupling system with two-hand operation, i.e. both hands are required when connecting/ disconnecting.

Push to connect version available on request: NSP series

Working Temperature

-20°C up to +200°C (FKM) depending on the medium. Other seals materials are available on request.



Max. Working Pressure* 20 bar * maximum static working pressure with design factor 4 to 1.

MaterialCoupling:Brass/Stainless SteelPlug:Brass/Stainless SteelSeals:FKM or EPDMOther materials available on request.

Computers and telecommunications

No spillage during connection/disconnection

• Excellent resistance to vibrations and

• Advanced internal design for cooling applications

• Can be used either with water or heat transfer oils

Advantages

Converters

• Radar, etc.

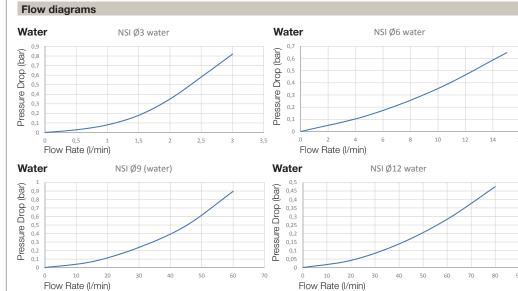
Low pressure drop

mechanical stresses

Applications

MoldingElectronic cabinets

Liectronic cabinet
 Laser



Series NSI

Thermal Managemei

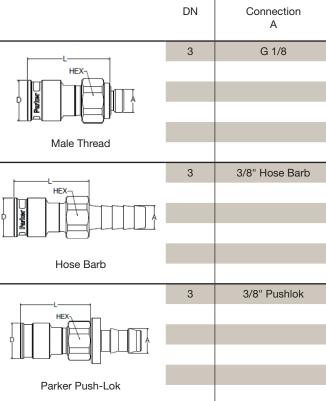
HEX mm	L mm	D mm	Part Number
14	38	17	NSI-121-2MBE ¹
20	44,8	22	NSI-251-16MCL-2 ²
27	63	30	NSI-371-6MBO
35	90,4	42	NSI-501-8MBO
20	57,9	22	NSI-251-4FB
27	72	30	NSI-371-6FB
35	99,4	42	NSI-501-8FB
20	55,2	22	NSI-251-6PL

Series NSI

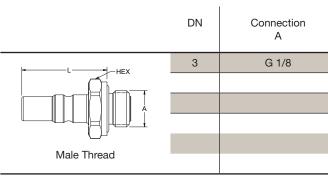
HEX mm	L mm	D mm	Part Number
14	36,5		NSI-122-2MBE ¹
19	44		NSI-252-4MBE-2
24	60,2		NSI-372-6MBO
32	79,1		NSI-502-8MBO

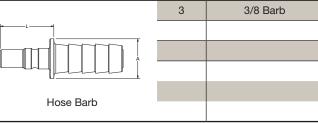
NSG

left Couplings



left Plugs





Technical Description

The NSG are dry-break couplings with flat face valves. The compact design makes them suitable for reduced spaces. Coupling system with two-hand operation, i.e. both hands are required when connecting/ disconnecting.

Working Temperature -55°C up to +120°C

(Extended temperature range is possible, contact factory for more information).

Max. Working Pressure 11 bar

MaterialCoupling:Stainless SteelPlug:Stainless SteelSeals:EPDM

No spillage during connection/disconnection

• Advanced internal design for cooling applications

Can be used either with water or heat transfer oils
Excellent resistance to vibrations and mechanical

Advantages

stresses

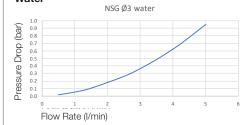
Low pressure drop

Applications

- Computers and telecommunications
- Electronic Cabinets

Flow diagrams

Water



3

Series NSG

t

Thermal Managemer

	HEX mm	L mm	D mm	Part Number
	17.5	34.8	17.0	NSG-121-2MB
	17.5	33.3	17.0	NSG-121-6HB
_				
	17.5	34.0	17.0	NSG-121-6PL

Series NSG

HEX mm	L mm	D mm	Part Number
14.3	22.7		NSG-122-2MB

14.3	19.3	NSG-122-6HB

The Management Managem

Parker Series

Couplings

UQD		DN	Connection A	HEX mm	L mm	D mm	Part Number
Advantages Fully interchangeable with other Intel-approved 	HEX.,	3	1/4" Pushlok	16	40.3	20.45	UQD-121-4PL
n UQD suppliers							
	Parker Push-Lok						
		6	3/8" Pushlok	24	47.6	23.4	UQD-251-6PL
Material							
Coupling:Stainless SteelPlug:Stainless SteelSeals:EPDM	Parker Push-Lok						

Applications

Technical Description

with Intel Corporation.

Universal Quick Disconnect (UQD) based on an Intel inspired open specification. Developed in collaboration

Working Temperature -55°C up to +200°C (Extended temperature range is possible, contact factory for more information).

Computers and telecommunicationsElectronic Cabinets

Dry-Break

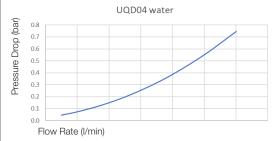
Max. Working Pressure

Flow diagrams

Water

-0≫-≪0-

11 bar



📀 Plugs					ę	Series UQD
	DN	Connection A	HEX mm	L mm	D mm	Part Number
	3	7/16-20 UNF -40RB	16	25.5		UQD-122-4MO
HEX						
Male Thread						
	6	9/16 18 UNF	19	34.7		UQD-252-6MO
HEX ₁						
Male Thread						

Blind Mate version UQDB series available on request.



Series UQD

Thermal Management

Nominal Diameter 16/19/25

Parker Series

NSE

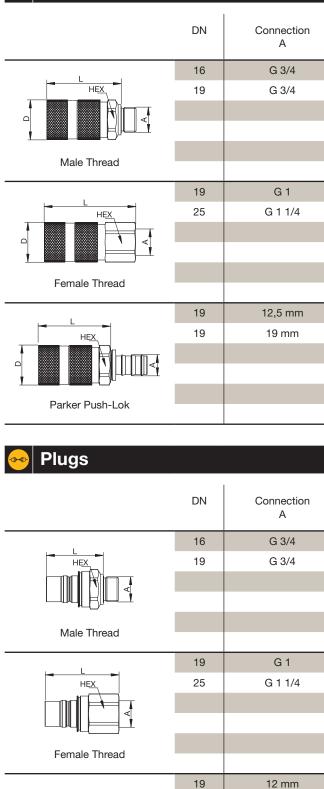
250

Advantages

High flow with low pressure drop

No spillage during connection/disconnection





19

HEX

Parker Push-Lok

19 mm

spaces when high flow is needed. Coupling system Specific design for cooling applications with two-hand operation, i.e. both hands are required Reduced dimensions compared to flow capacities when connecting/disconnecting. Working Temperature -20°C up to +200°C (FKM) depending on the medium. Other seals materials are available on request. Screw to connect version available on request (easy connection under residual pressure). Dry-Break Max. Working Pressure* 15 bar * maximum static working pressure with safety factor 4 to 1. Material Coupling: Stainless Steel Plug: Stainless Steel FKM Seals: Applications Molding Electronic cabinets Laser Converters Radar, etc. Flow diagrams NSE Ø16 Water NSE Ø19 Water Water Water (bar) (bar) Drop doug 1,5 Ð 40 120 140 160 50 100 200 20 60 80 150 Flow Rate (I/min) Flow Rate (I/min) Water NSE Ø25 Water 1.6 (par) 1, Drop (Ð 200 100 150 250 Flow Rate (I/min)

Technical Description

The NSE are dry-break couplings with flat face valves.

The compact design makes them suitable for reduced

Series NSE

Thermal Managemei

HEX mm	L mm	D mm	Part Number
34	68,8	37	NSE-621-12MBO
38	78,5	42	NSE-751-12MBO
38	96,6	42	NSE-751-16FB
50	120,5	53	NSE-1001-20FB
38	76,4	42	NSE-751-8PL
38	76,4	42	NSE-751-12PL

Series NSE

HEX mm	L mm	D mm	Part Number
34	56,5		NSE-622-12MBO
38	60,3		NSE-752-12MBO
38	78,4		NSE-752-16FB
50	96,8		NSE-1002-20FB
38	58,2		NSE-752-8PL
38	58,2		NSE-752-12PL

6/8/10/12/19/25

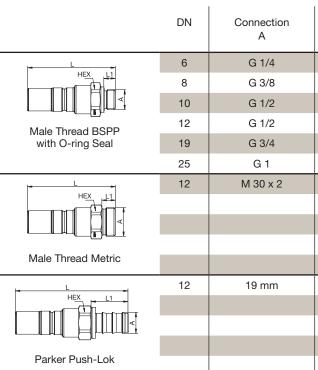
Parker Series

NSA



	DN	Connection A	HEX mm	L mm	L1 mm	D mm	Weight gr.	Part Number
HEX <u>L1</u>	12	M 30 x 1,5	35	99,4	14	44,5	231	NSA-501-30MCL
Male Thread metric DIN 2353								
		0.4/0				05	10	
HEX , L1	6	G 1/2	27	55,5	14	25	48	NSA-251-8MBO
	8	G 3/4	32	62,5	16	31	77	NSA-331-6MBO
	10	G 1/2	35	91,6	14	40	157	NSA-391-8MBO
	19	G 3/4	38	87,5	16	48	182	NSA-751-12MBO
Male Thread BSPP	25	G 1	47	99,6	18	58	300	NSA-1001-16MBE
	12	G 1/2	35	99,4	14	44,5	249	NSA-501-8FB
HEX L1								
Female Thread BSPP								
	10	19 mm	35	100.40	00.00	44.5	239	NSA-501-12PL
	12	-		126,40	38,30	44,5		
	19	19 mm	38	96,4	27	48	179	NSA-751-19HB
	25	32 mm	47	123,5	38	58	302	NSA-1001-32HB
Parker Push-Lok								

Plugs



Technical Description

Minimal fluid loss during disconnection. NSA couplings have minimal pressure drop and no inclusion of air or dust during connection.

Working Temperature

 -50° C up to $+175^{\circ}$ C (Fluorosilicone) depending on the medium.

Other seals materials are available on request.



Max. Working Pressure

20 bar

Material

Coupling: Anodized Aluminium Anodized Aluminium Plug: Seals: Fluorosilicone

Applications

• Cooling of onboard electronic equipment, engines and batteries

• Cooling of converters, data centers, military equipment and medical imaging equipment

Flow diagrams

1,80 -1,60 -

0 1,40

O 0.80 -0.60 0,40

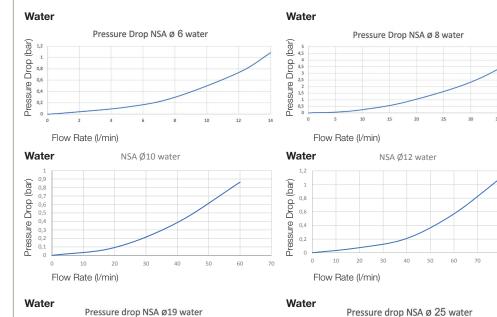
0,20

0 20 40 60

Flow Rate (I/min)

Ď 1,00 -

1,20

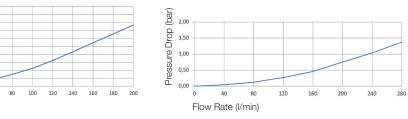


Advantages

 No spillage during connection/disconnection Light weight due to aluminium construction

Push-Lok connection for fast assembly





Series NSA

Series NSA

HEX mm	L mm	L1 mm	D mm	Weight gr.	Part Number
20	45,5	12		16	NSA-252-4MBO
24	54,3	12		33	NSA-332-6MBO
27	81	12		67	NSA-392-8MBO
32	91,1	12		88	NSA-502-8MBO
38	76,3	16		96	NSA-752-12MBO
47	85,5	18		155	NSA-1002-16MBE
32	91,1	14		93	NSA-502-30MCL
32	117,1	38,3		97	NSA-502-12PL

Body Size 1/8 up to 1 1/2"

60-Series

AISI 303 AISI 303

AISI 303 Stainless Steel

Stainless Steel AISI 303

• Power generation plants, hydroelectric power stations

Pressure drop 1/4" (water)

8

10

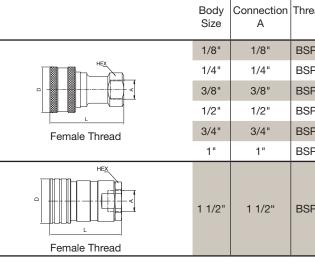
12

60

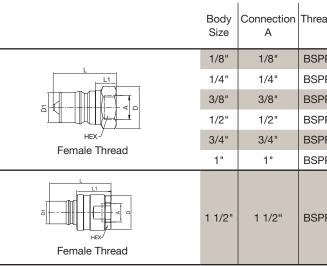
70

NBR





Plugs





Technical Description

The 60 series are robust construction couplings with standard valves, destinated to various applications.

Working Temperature

-40°C up to +110°C (NBR) depending on the medium.

Special seals are available on request.

Advantages

A poppet with crimped seal assures a maximum sealing at low flow rates and prevents seal washout at high flow rates. A large number of locking balls distribute the work load evenly while providing alignment for the two parts of the coupling.

Sleeve-Lock:

60 series couplers are available with safety locking sleeves. Please add the suffix SL to the part number, e.g. H3-62-SL.

Dry-Break

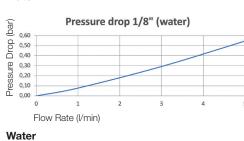
Max. Working Pre	ssure
20 bar	
Material	
Coupling Body: Sleeve: Back-up Ring: Valve: Springs: Locking Balls: Seals: Valve Holder: Thread Body:	AISI 303 AISI 303 Stainless Steel AISI 303 Stainless Steel Stainless Steel NBR Stainless Steel AISI 303

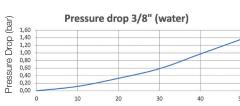
Applications

- Cooling of onboard electronic equipment, engines Semiconductor industry and batteries • Cooling of converters, data centers, military
- equipment and medical imaging equipment

Water

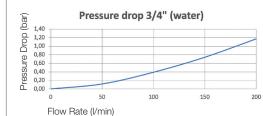
Flow diagrams

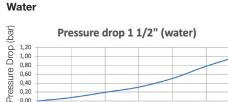


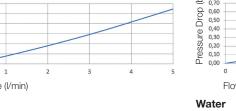


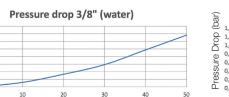


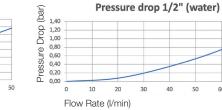
Flow Rate (I/min)











2

Flow Rate (I/min)



Material Plug:

Plug Body: Valve:

Valve Holder:

Thread Body:

Transport

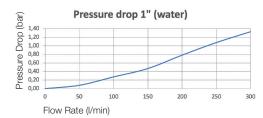
Water

Q 0,70

• Food and bottling industry

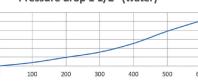
Springs:

Seals:





Flow Rate (I/min)



60-Series Stainless Steel

Thermal Managemer

ead	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
SPP	11/16"	48,3		24,4		AISI 303	81	SH1-62-BSPP
PP	19 mm	61,2		29,0		AISI 303	129	SH2-62-BSPP
SPP	1"	69,9		35,6		AISI 303	245	SH3-62-BSPP
SPP	1 1/8"	77,5		45,0		AISI 303	360	SH4-62-BSPP
SPP	1 5/16"	93,2		54,4		AISI 303	603	SH6-62-BSPP
SPP	1 5/8"	106,2		64,0		AISI 303	908	SH8-62-BSPP
;PP	2 1/2"	127,3		76,2		AISI 303	2090	SH12-62N-BSPP

60-Series Stainless Steel

read	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
SPP	9/16"	32,0	10,5	16,4	10,8	AISI 303	18	SH1-63-BSPP
SPP	19 mm	39,1	16,6	21,9	14,2	AISI 303	36	SH2-63-BSPP
SPP	7/8"	49,3	19,7	25,7	19,1	AISI 303	69	SH3-63-BSPP
SPP	1 1/8"	54,1	21,1	32,9	23,5	AISI 303	122	SH4-63-BSPP
SPP	1 3/8"	64,5	21,9	40,3	31,4	AISI 303	217	SH6-63-BSPP
SPP	1 5/8"	73,8	25,2	47,2	37,7	AISI 303	345	SH8-63-BSPP
SPP	2 1/2"	124,7	67,5	69,9	44,5	AISI 303	1315	SH12-63N-BSPP

Thermal Management

ST-Series

No valving allows minimal pressure drop, maximal

ST series couplers can be furnished with locking sleeves. Place suffix letters **SL** (Sleeve-lock) after

regular catalog numbers. Example: SST-4M-SL

	Body Size	Connection A	Thread	Hex	L mm	L1 mm	L2 mm	D mm	Bore mm	Version	Weight gr.	Part Number
HEX、	1/4"	1/4"	BSPP	13/16"	39,1			23,8	6,4	AISI 303	74	SST-2-BSPP
	3/8"	3/8"	BSPP	1"	41,7			29,0	9,5	AISI 303	115	SST-3-BSPP
	1/2"	1/2"	BSPP	1 1/8"	50,3			33,3	11,9	AISI 303	172	SST-4-BSPP
	3/4"	3/4"	BSPP	1 7/16"	54,6			41,7	18,3	AISI 303	268	SST-6-BSPP
Female Thread	1"	1"	BSPP	1 3/4"	62			51,3	23,8	AISI 303		SST-8-BSPP

😁 Plugs

	Body Size	Connection A	Thread	Hex	L mm	L1 mm	L2 mm	D mm	Bore mm	Version	Weight gr.	Part Number
HEX	1/4"	1/4"	BSPP	3/4"	37,1	18,1		21,9	6,4	AISI 303	36	SST-N2-BSPP
	3/8"	3/8"	BSPP	7/8"	41,3	19,1		25,6	9,5	AISI 303	53	SST-N3-BSPP
	1/2"	1/2"	BSPP	1 1/8"	48,5	24,7		32,9	11,9	AISI 303	103	SST-N4-BSPP
	3/4"	3/4"	BSPP	1 3/8"	54,5	26,5		40,2	18,3	AISI 303	156	SST-N6-BSPP
Female Thread	1"	1"	BSPP	1 5/8"	59,5	29,0		47,5	23,8	AISI 303		SST-N8-BSPP

Technical Description

Non-valved couplings. Maximal flow. Minimal pressure drop. Easy cleaning. This series is also manufactured as an alternative in brass and AISI 316 material.

Working Temperature

-40°C up to +110°C (NBR) depending on the medium.

Special seals are available on request.



Max. Working Pressure

20 bar

Material

Material Coupling:	Stainless Steel
Coupling Body:	AISI 303
Sleeve:	AISI 303
Back-up Ring:	AISI 303

Valve: Seals: Locking Balls: Material Plug: Plug Body:

Advantages

Sleeve-Lock

flow and easy cleaning.

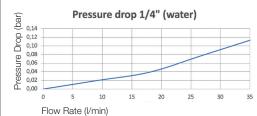
AISI 303 NBR AISI 303 Stainless Steel AISI 303

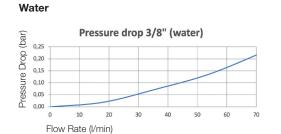
Applications

- Mold coolant lines
- Food industry
- High pressure water and steam washers
- Water distribution lines

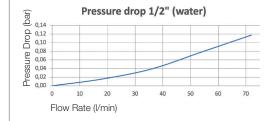
Flow diagrams

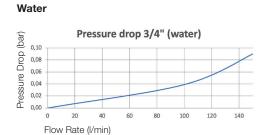




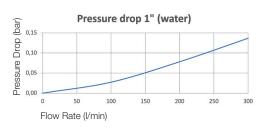








Water



ST-Series Stainless Steel

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Thermal Managemer

ST-Series Stainless Steel

Body Size 3 up to 9

NSIC-Series

No spillage during connection/disconnection

• Easy connection under pressure.

• Advanced internal design for cooling applications

• Can be used either with water or heat transfer oils

• Excellent resistance to vibrations and mechanical

• Suitable for main inlet/outlet connections for the

Allow ± 1mm misalignment at connection

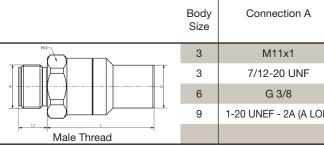
Advantages

stresses.

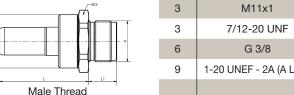
cooling circuits.

• Low pressure drop

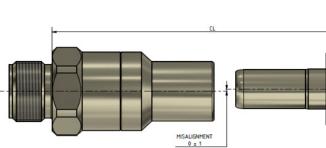
Couplings



Nipples Body Size



Connection A





Technical Description The RNS are rigid couplings with flat face valves. They can be mounted on rigid manifolds or tubing and assure connection/disconnection without spillage. Base material is brass and stainless steel.

Technical Description

NSIC cartridges are the right solution for blind mate connections. They allow a misalignement at connection between the nipple and coupler half and they are dripless.

Working Temperature

-20°C up to +200°C (FKM). Other seals materials are available on request.

Dry-Break

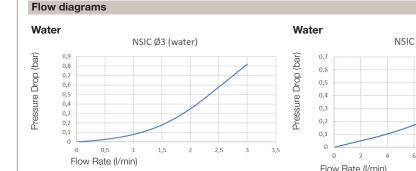
Max. Working Pressure 20 bar* maximum static working pressure with design factor 4 to 1.

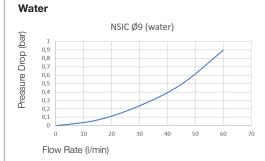
Material

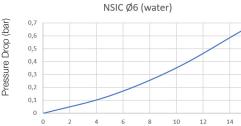
Coupling: Brass Ni plated or Stainless Steel Brass Ni plated or Stainless Steel Plug: Seals: FKM Other materials available on request.

Applications

- Electronic cabinets
- Converters
- Radar
- Computer and telecommunications







Flow Rate (I/min)

NSIC-Series

	Hex	L mm	L1 mm	D mm	Weight gr.	CL mm (Connected length)	Part Number
	16	22.6	12	13	31.9	On request	NSIC-121-11MM-E
	14	20.9	11.6	15.5	25.7	On request	NSIC-121-4MO-ES3
	24	47.5	12	20	116	On request	NSIC-251-6MBO-E
LOK)	35	65.9	37.3	26	371	On request	NSIC-371-12HCA-S3

NSIC-Series

	Hex	L mm	L1 mm	D mm	Weight gr.	CL mm (Connected length)	Part Number
	18	32.7	12	16.8	31.2	On request	NSIC-122-11MM-E
	17	33.3	9.1	18	15.3	On request	NSIC-122-4MO-ES3
	24	42.3	12	23.50	75	On request	NSIC-252-6MBO-E
LOK)	35	55	37.3	33	271.8	On request	NSIC-372-12HCA-S3



Advantages

- Push-Pull connection/disconnection, breakaway function.
- Dry-break connection/disconnection.
- Connection guiding system and compensation of misalignment during connection on rack systems (when both are mounted on rigid devices).
- Specific design for cooling applications.

Body Size 3 up to 6

NSAC-Series

No spillage during connection/disconnection

• Easy connection under pressure.

Advanced internal design for cooling applicationsCan be used either with water or heat transfer oils

• Excellent resistance to vibrations and mechanical

• Suitable for main inlet/outlet connections for the

Allow ± 1mm misalignment at connection

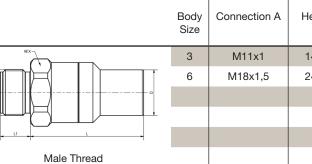
Advantages

stresses.

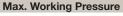
cooling circuits.

Low pressure drop

Couplings



Nipples



Dry-Break

Technical Description

Working Temperature

-55°C up to +120°C (EPDM)

NSAC cartridges are the right solution for blind mate

connections. They allow a misalignement at connec-

Other seals materials are available on request.

tion between the nipple and coupler half and they are

20 bar *maximum static working pressure with design factor 4 to 1.

Material

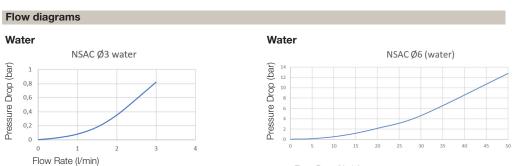
dripless.

Coupling:Anodized AluminiumPlug:Anodized AluminiumSeals:EPDM

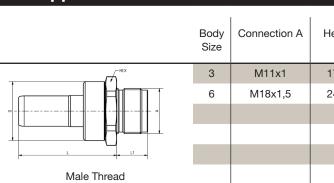
Applications

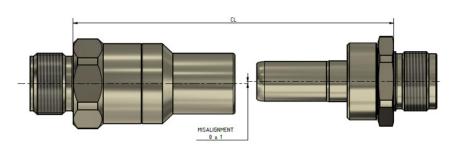
- Electronic cabinets
- Converters

RadarComputer and telecommunications



Flow Rate (I/min)





NSAC-Series

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Thermal Managemei

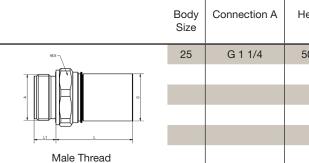
Hex	L mm	L1 mm	D mm	Weight gr.	CL mm (Connected length)	Part Number
14	22	12,5	13	11	On request	NSAC-121-11MM-E
24	27	15	20	28	On request	NSAC-251-18MM-E

NSAC-Series

Hex	L mm	L1 mm	D mm	Weight gr.	CL mm (Connected length)	Part Number
17	33	11,5	17	11	On request	NSAC-122-11MM-E
24	42	15	23,5	31	On request	NSAC-252-18MM-E

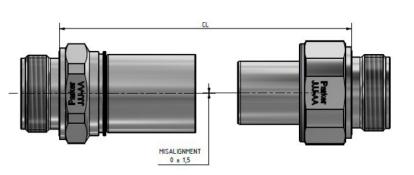
NSEC-Series

No spillage during connection/disconnection



Body Size Connection A H Image: Connection A I

Male Thread



Technical Description

NSEC cartridges are the right solution for blind mate connections. They allow a misalignement at connection between the nipple and coupler half and they are dripless.

Other seals materials are available on request.

Working Temperature -55°C up to +120°C (EPDM) depending on the

Easy connection under pressure.

Advantages

stresses.

Low pressure drop

• Suitable for main inlet/outlet connections for the cooling circuits.

Advanced internal design for cooling applicationsCan be used either with water or heat transfer oils

• Excellent resistance to vibrations and mechanical

• Allow +/- 1.5 mm misalignment at connection

Dry-Break



Max. Working Pressure

15 bar *maximum static working pressure with design factor 4 to 1.

Material

medium.

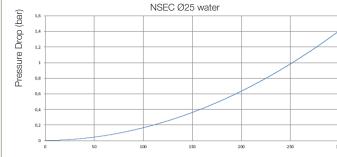
Coupling:Stainless SteelPlug:Stainless SteelSeals:EPDM

Applications

- Electronic cabinetsConverters
- RadarComputer and telecommunications

Flow diagrams

Water



Flow Rate (I/min)

						NSEC-Series
Hex	L mm	L1 mm	D mm	Weight gr.	CL mm (Connected length)	Part Number
50	70	20	42,9	540	On request	NSEC-1001-20MBE-E

NSEC-Series

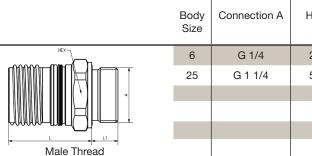
Thermal Management

Hex	L mm	L1 mm	D mm	Weight gr.	CL mm (Connected length)	Part Number
54	58,4	20	53,5	470	On request	NSEC-1002-20MBE-E

NSSC-Series

No spillage during connection/disconnection

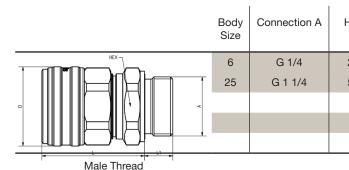
Couplings



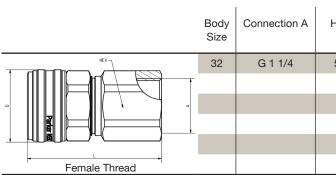
Couplings Body Connection A Size 32 G 1 1/4



Female Thread



Nipples



Technical Description

NSSC couplings are the right solution for connection under pressure. The NSSC couplings are a screw to connect dry-break couplings with flat face valves.

Working Temperature

. medium.

- -55°C up to +120°C (EPDM) depending on the

Other seals materials are available on request.

• Easy connection under pressure.

Advantages

stresses.

Low pressure drop

• Suitable for main inlet/outlet connections for the cooling circuits.

• Advanced internal design for cooling applications

• Can be used either with water or heat transfer oils • Excellent resistance to vibrations and mechanical

Dry-Break

Max. Working Pressure

10 bar *maximum static working pressure with design factor 4 to 1.

Radar

Datacenters/Servers

• High Performance Computers

Material

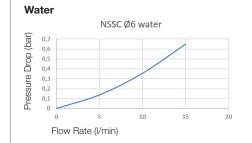
Coupling: Plug: Seals:	Stainless Steel/Steel Zinc plated Stainless Steel FKM or EPDM Other materials available on request.
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Applications

- Molding
- Electronic cabinets
- Laser

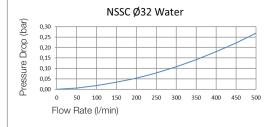
Converters







Water



NSSC-Series

Thermal Managemei

Hex	L mm	L1 mm	D mm	Weight gr.	Part Number
24	50	11	24,5	76	NSSC-251-4MBE
50	93	20	56	600	NSSC-1001-20MBE

NSSC-Series

Neec Saria

Hex	L mm	L1 mm	D mm	Weight gr.	Part Number
50	102	N/A	N/A	1120	NSSC-1251-20FB

					NSSC-Series
Hex	L mm	L1 mm	D mm	Weight gr.	Part Number
21	53,5	11	N/A	80	NSSC-252-4MBE
50	83	20	N/A	520	NSSC-1002-20MBE

					NSSC-Series
Hex	L mm	L1 mm	D mm	Weight gr.	Part Number
50	122	N/A	74	1320	NSSC-1252-20FB

 Λ Please consider our security advices in our main catalogues Λ

"Plug & Play" - Customized Systems

We offer engineering support to our customers for the codevelopment of the complete cooling installation. A special care is accorded to the pressure drop for energy saving and to assure the optimal temperature management.

We propose a complete 100% tested solution integrating our products, between the chiller to the component to be cooled.

Our solutions include:

- Manifolds several materials available
- Couplings or cartridges from 3mm ID to 32 mm ID available in different materials and seals
- **Hose assemblies** including Push-lok (hose barb) end connections for an optimal number of components
- Bleeding valves, flow regulators, etc.
- Pressure and flow sensors
- Others...

Our support:

- Co-design of your cooling system
- Mechanical, thermal & flow simulation
 - Building sample & prototype
 - Laboratory validation
 - Tightness test 100% serial parts
 - Packaging optimization





For more information about the characteristics or feasibility please contact us.

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