

CATALOGUE 2020

www.lmc-couplings.com

CONTENT TABLE

		Page
Chapter A	Quick couplings	
	Cam & groove couplings Federal Mil / EN / DIN	A.1.
	Guillemin couplings EN 14420-8 / NF E 29-572	A.2.
	DSP couplings NF S61-704 / NF S61-705	A.3.
	TW couplings EN 14420-6 / DIN 28450	A.4.
	'GK' couplings	A.5.
	Express couplings NF E 29-573	A.6.
	European air couplings DIN 3489	A.7.
	European air safety couplings	A.7.
	Triclamp couplings DIN / INCH / ISO / IMPERIAL	A.8.
	Cardan couplings	A.9.
	Chemaline 2000	A.10.
Chapter B	Screw hose couplings	B.1.
	Nipples	B.2.
	Food couplings DIN 11851	B.3.
	Food couplings SMS 1145	B.4.
	Steam couplings EN 14423 / DIN 2826	B.5.
	DINBO steam couplings	B.6.
	PROTAPOINT Swivel couplings	B.7.
Chapter C	Flange couplings	
	Flange couplings EN 14420-4 / DIN 2673	C.1.
Chapter D	Assembly clamps & ferrules	
	RK safety clamps EN 14420-3 / DIN 2817	D.1.
	RKP safety clamps EN 14420-3 / DIN 2817	D.2.
	FLEXOLINE safety clamps	D.3.
	RKS steam clamps EN 14423 / DIN 2826	D.4.
	FIXP band clamps	D.5.
	Swage ferrules	D.6.

Reasonable care has been taken in preparing this catalogue. However errors may exist and information should be used as guideline only. LMC-Couplings nv reserves the right to make corrections and price changes at any time without prior notice.

A

QUICK COUPLINGS

A.1. Cam & Groove couplings
A.2. Guillemin couplings
A.3. DSP couplings
A.4. TW couplings
A.5. 'GK' couplings
A.6. Express couplings
A.7. European air couplings
A.8. Triclamp couplings
A.9. Cardan couplings
A.10. Chemaline PTFE lined couplings

STANDARD

- **Federal Mil A-A-59326**

The standard for cam & groove couplings is based on the US Military Specification Mil-C-27487. The Mil-C-27487 specified the casting methods, materials, dimensions, tolerances, pressure ratings and inspection procedures. In 1998, the original Mil-C-27487 specification was replaced by a new Federal Military standard: A-A-59326. Federal Mil A-A-59326 guarantees interchangeability of couplings designed to the same specification.

Interchangeability with other brands
Between manufacturers cam & groove couplings are interchangeable with the exception of 1/2" (12.7 mm), 5" (127 mm) and 8" (203.2 mm).
The A-A-59326 Mil-specification does not apply to 1/2", 5" and 8" cam & groove couplings, due to the presence of two versions of cam & groove couplings in today's market.

Limitations: Hose shanks with larger serrations are not designed to be assembled with a ferrule or sleeve. Hose damage can result if they are swaged. The larger shank serrations will cut into the inner wall of the hose resulting in leakage or permanent hose failure.

N.B.: Cam & groove couplings must never be used for steam or compressed air applications.

- **EN 14420-7**

The European standard EN 14420-7 was approved by CEN in September 2004, and was applied to cam & groove couplings manufactured to American "military specification" MIL-C-27487 / A-A-59326. This American standard does not apply to the connection side, but only to the coupling side. Other parts like levers, bolts, rings and seals are not standardized.

Cam & groove couplings produced to EN 14420-7 are interchangeable with those produced to the original MIL-C-27487 standard, but differ in terms of hose tail design, thread, part number etc. A flat thread seal has been added to the female threaded parts, and a smooth hose shank complying with EN 14420-2 has been added for assembly with RK safety clamps complying with EN 14420-3.

N.B.: European standard EN 14420-7 replaces DIN 2828 but does not replace MIL-C-27487 and Federal Mil A-A-59326.

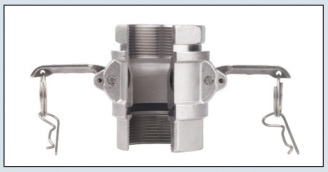


OPERATION

To connect

1. Open the coupler by pulling back the locking lever above the cam handles, whilst rotating the handles away from the body of the coupler.
2. Insert the adaptor into the coupler
3. Close the coupler by rotating the cam handles towards the body of the coupler. Locking occurs when the cam handles are closed. The coupler is properly closed when the locking levers on both the cam handles assemblies are flush. For extra security, insert safety clip through the holes above the cam handles. Line pressure, which moves the coupler and adaptor independently, increases the pressure on the cam face, ensuring increased locking leverage. Under normal conditions, safety locks are not necessary, but are recommended. The adaptor and the coupler are designed to minimize the fluid turbulence and the abrasion from dry products when connected.



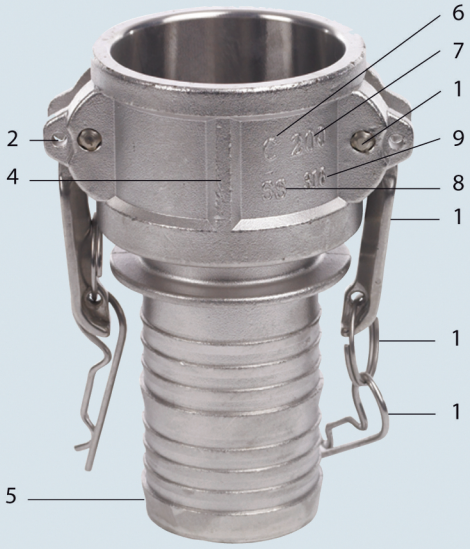




To disconnect

4. Be sure that the hose-coupling connection is depressurized before disconnecting.
5. Open the coupler by pulling back the locking lever above the cam handles, whilst rotating the handles away from the body of the coupler.
6. Remove the adaptor from the coupler.
7. Close the coupler by rotating the cam handles towards the body of the coupler. Locking the coupler when not in use will help protect it from accidental damage.

FEATURES




3


10


11


12

1. Stainless steel triangular handles, pin, ring and safety pin are standard on all material versions. Handles are manufactured by investment casting.
2. Holes for safety pin inserts
3. Earthing lug
4. Reinforced coupling section for increased mechanical strength
5. Long hose shank to ensure secure fixing
6. Marked with cam & groove type
7. Marked with diameter
8. Marked with standard compliance: MS (Military Specification) or DIN/EN (Deutsche Industrienorm)
9. Marked with material identification: stainless steel, brass, bronze, aluminium, polypropylene
10. Seals are available in NBR (standard), EPDM (standard for polypropylene), PTFE, CSM, FPM, FEP/Silicone, PTFE/EPDM and PTFE/FPM
11. Safety couplers are available with monoblock safety body
12. Coupling insurance by brand name LMC-Couplings®

APPLICATION

Cam & groove couplings are used for hose-to-hose or hose-to-pipe / manifold connections for the transfer of liquids or dry bulk products.

WORKING PRESSURE

INCH	1/2" -2"		2.1/2"		3"		4"		5"		6"		8"	
Working pressure	Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi
Brass	18	250	11	150	9	125	7	100	5	75	5	75	-	-
Bronze	18	250	11	150	9	125	7	100	-	-	-	-	-	-
Aluminium	18	250	11	150	9	125	7	100	5	75	5	75	3	50
Stainless steel	18	250	11	150	9	125	7	100	5	75	5	75	3	50
Polypropylene	7	100	-	-	4	50	4	50	-	-	-	-	-	-

TEMPERATURE RANGE

The working pressures shown above refer to ambient temperatures using elastomer seals. Higher temperatures and / or PTFE seals will reduce the rated coupling pressure. In the case of polypropylene, the maximum working temperature is 70°C / 160°F, at which temperature the working pressures shown above should be reduced by 40%.
Hose, coupling, seal and assembly method must be chosen in relation with the desired application and temperature range.

MATERIAL

- **Coupling**

  LMC-Couplings cam & groove couplings are available in the following materials:

  Stainless steel: AISI 316 - EN 1.4401
  Brass: C85700
  Bronze: C84400
  Aluminium: 380
  Polypropylene: LMC's polypropylene cam & groove couplings contain 25-30% fibreglass reinforcements

Production method

All sizes of brass and bronze cam & groove couplings are shell-moulded or sand cast.
The type of aluminium is a sand cast 713-T5 alloy, which can be anodised if required.
Stainless steel couplings are investment-cast in a range of common sizes and are electro-polished for clean applications.
The stainless steel quality for cam & groove couplings is standard AISI 316-EN 1.4401.
Polypropylene couplings are made from polypropylene reinforced with 25%-30% acid-resistant fibreglass.

Materials and sizes

INCH ND	1/2" 13	3/4"-2" 20-50	2.1/2" 65	3"-4" 75-100	5"-6" 125-150	8" 200
Brass	■	■	■	■	■	-
Bronze	-	■	■	■	■	-
Aluminium	■	■	■	■	■	■
Stainless steel	■	■	■	■	■	■
Polypropylene	■	■	-	■	-	-
Saflok/Bleedoff	-	■	■	■	-	-

■ Available

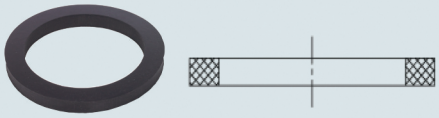
\- Not available

Material

- **Seal**

Standard seal

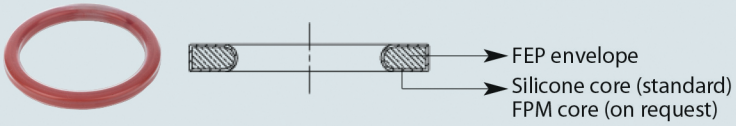
The standard cam & groove seal consists of a standard square-section, available in:



NBR - Silicone free (standard for all materials, except polypropylene)
EPDM (standard for material polypropylene)
FPM
CSM

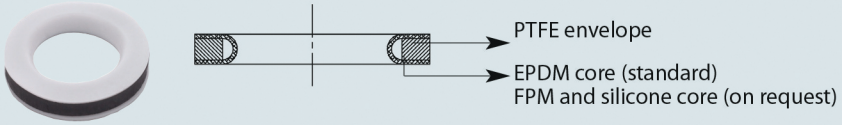
Closed seal

VLXPSG closed cam & groove seals are designed for extreme chemical applications. These seals combine the best properties of two different materials; the pressure set of the rubber silicone core and the chemical resistance provided by the FEP encapsulation. Encapsulation of the Silicone core ensures improved operational safety, when compared with an open envelope seal. VLXPSG seals are produced without the use of animal derived ingredients, ADI free. This reduces the risk of BSE prion contamination. VLXPSG closed cam & groove seals resist high temperature operation: from -60°C / -76°F up to 204°C / 399°F.



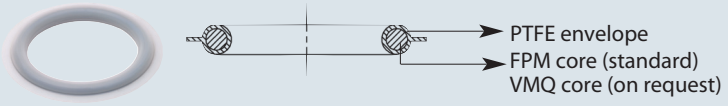
Open envelope seal

The open envelope seal consists of a U-section PTFE envelope and a square-section EPDM core. The construction method used for the open envelope seal ensures excellent compression properties. The PTFE envelope allows the seal to withstand temperatures up to 200°C / 382°F.



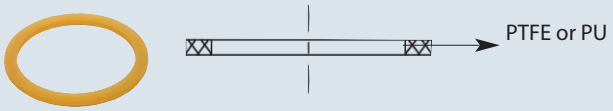
Closed envelope seal

The closed envelope seal removes all contact between chemicals and the seal core. The fully-closed PTFE envelope completely encapsulates the FPM. The maximum temperature for this type is 200°C / 392°F.



Thread seal

Female threaded coupler and adaptor components complying with EN 14420-7 / DIN 2828 standards contain a thread seal. Female threaded cam & groove couplings are sealed by screwing a male BSPT / BSP thread up to the thread seal. Thread seals are available in: PTFE - PU



Properties seals

REF.	ASTM	POLYMER	TRADE NAME	HARDNESS	°C	°F	+ PROPERTIES	-
VLXB...	**NBR**	Acrylonitrile Butadiene	Perbunan®	60 +/- 5 Shore A	-30°C 120°C	-22°F 248°F	Oil based hydraulic fluid, fats, animal and vegetable oils, flame retardant, liquids, grease, water and air	Ozone, sunlight weather
VLXE...	**EPDM**	Ethylene-propylene-Diene Rubber	Keltan®	70 +/- 5 Shore A	-40°C 145°C	-40°F 293°F	Acids, steam, alcohol	Oil, greases
VLXV...	**FPM**	Fluorocarbon	Viton®	70 +/- 5 Shore A	-30°C 200°C	-22°F 392°F	Mineral oils and greases, alifatic, aromatic, and also special chlorinated hydro-carbons, petrol, diesel fuels, silicon oils and greases	Steam Hot water
VLXH...	**CSM**	Chlorosylfonated polyethylene	Hypalon®	70 +/- 5 Shore A	-40°C 140°C	-40°F 284°F	Acids and oils, obsolescent and ozone resistant	Chlorine
VLXPSG...	**FEP / VMQ**	Copolymer of Hexa-fluorpropylene / Silicone	Teflon® / Silicone	60 +/- 5 Shore D	-60°C 204°C	-76°F 399°F	Resistant to almost all kinds of chemical products, steam, oils... Excellent self-lubricating and anti adhesive properties	Hardness
VLXP...	**PTFE / EPDM**	Poly tetrafluorethylene /	Teflon® / Keltan®	85 +/-5 Shore D	-25°C 100°C	-13°F 212°F	Alcohols, acids	Hardness Oil, greases
VLXP...V	**PTFE / FPM**	Poly tetrafluorethylene / Fluorocarbon	Teflon® / Viton®	85 +/-5 Shore D	-10°C 200°C	14°F 392°F	Mineral oils and greases, alifatics, aromatics	Low temp.
VLXPG...	**PTFE / FPM**	Poly tetrafluorethylene / Fluorocarbon	TFM™ / Viton®	74 +/- 5 Shore D	-15°C 200°C	-5°F 392°F	Acids and oils, obsolescent and ozone resistant petrol	Benzene, toluene,

NBR= Perbunan® is a registered trademark of Bayer AG / EPDM= Keltan® is a registered trademark of DSM / FPM= Viton® is a registered trademark of DuPont Performance Elastomer
CSM= Hypalon® is a registered trademark of DuPont Performance Elastomer / PTFE = Teflon® is a registered trademark of DuPont Performance Elastomer
VMQ = Silplus® is a registered trademark of General Electric Co / TFM™ is a registered trademark of Dyneon.

ASSEMBLY

Worm drive clamps
RK safety clamps to EN14420-3
RKP safety clamps to EN14420-3

FLEXOLINE® safety clamps
Welding: butt welding and socket welding (see pg. A.1.27)

THREADS

Three different types of thread are generally used for cam & groove couplings:

- BSP = British Standard Pipe
- BSPT = British Standard Pipe Taper
- NPT = National Pipe Taper

In Europe, BSP and BSPT threads are more commonly used than NPT threads. NPT threads are typically American threads. Since many American industrial machines and products are exported to European markets, couplings with NPT threads are a regular requirement. The main difference between the three thread types referred to above is the seal method used. Although BSP threads are sealed using a seal or o-ring, BSPT and NPT threads are sealed by their conical thread.

THREAD	DESCRIPTION	STANDARD	TYPICAL CALL OUT	SEALING METHOD	PROPERTIES
BSP	British standard pipe	EN ISO 228-1 DIN ISO 228-1	G1	■ Parallel thread ■ Pressure tight joint is obtained with a seal or o-ring	■ 55° degree thread angle ■ Trucation of rood and crest are round ■ Diameter measured in inches
BSPT	British standard pipe taper	EN 10226-1 DIN 2999-1	R1	■ Conical thread. ■ Pressure tight joint is achieved by the thread	■ 55° degree thread angle ■ Trucation of rood and crest are round
BSPP	British standard pipe parallel		G 1(cyl)	■ Cylindrical thread ■ Trucation of rood and crest are round	■ 55° degree thread angle
NPT	National pipe taper (American standard pipe thread)	ANSI B 1.20.1	NPT 1	■ Conical thread ■ Pressure tight joint is achieved by the thread	■ 60° degree round angle ■ Trucation of rood and crest are flat

Cam & groove threads

COUPLING	TYPE	STANDARD		ON REQUEST
ADAPTOR				
Female threaded	A	BSP	EN ISO 228-1/ DIN ISO 228-1	NPT ANSI B 1.20.1
Male threaded	F	BSPT	EN 10226-1 / DIN 2999-1	NPT ANSI B 1.20.1
COUPLER				
Female threaded	D	BSP	EN ISO 228-1/ DIN ISO 228-1	NPT ANSI B 1.20.1
Male threaded	B	BSPT	EN 10226-1 / DIN 2999-1	NPT ANSI B 1.20.1

TESTING

The following aspects of LMC's cam & groove couplings are tested in house:

- Adaptor and coupler dimensions
- Material quality
- Handle strength
- Seal properties
- Thread dimensions
- Impact resistant

- **Adaptor and coupler dimensions**

  High-technology measuring equipment

  High-technology measuring tools are used to measure the specific dimensions of cam & groove couplings to ensure compliance with the dimensions required under the Federal Mil A-A-59326, European EN 14420-7 and the German DIN 2828 standards. Although ordinary measuring systems are unable to give sufficiently precise dimensions for this purpose, our high-technology measuring system is able to measure complex cam & groove coupling product positions and shapes.



  Dimension gauges

  The shape of the adaptor coupling enables the interchangeability of coupler parts. Specially designed gauges are used in addition to measurement systems. The use of test gauges minimises inspection times, ensures interchangeability and maintains seal properties when using specially-designed seals, such as envelope seals.

  Two gauges are used for each dimension; one small and the other larger. In the first stage of testing, the small gauge is passed across the head of the adaptor section. If the gauge can not pass, the adapter head falls within the permissible – (minus) tolerances.

  If the larger gauge passes across the adaptor head with no interruption, the component is compliant and its dimensions fall within the permissible + (plus) tolerances.

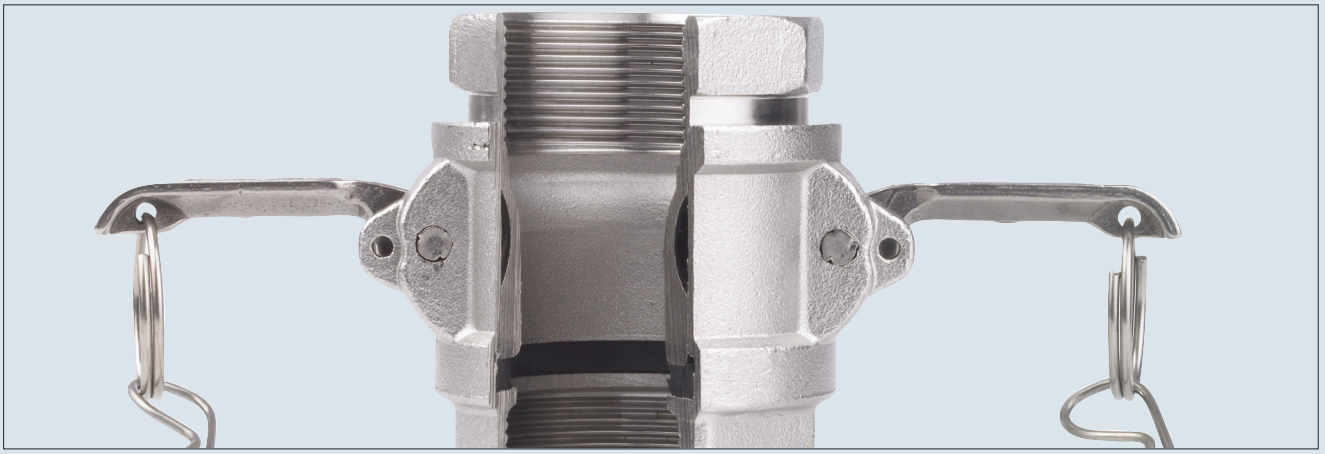


- **Material quality**

  An in-house spectroscope is used to identify the materials used in the cam & groove couplings. The spectroscope analyses the precise quantity of all materials of the coupling.

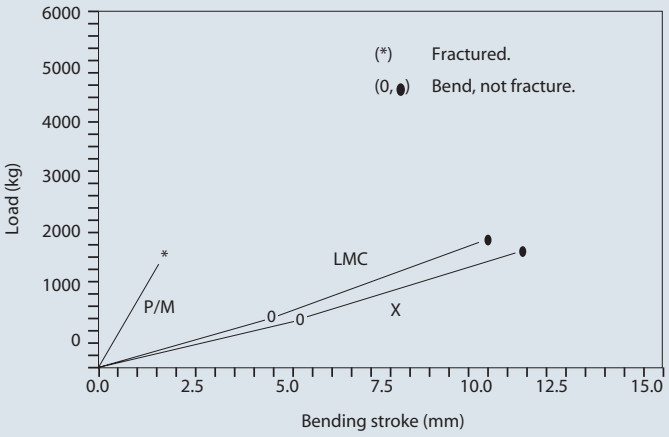
  We can therefore offer our customers a guarantee that the materials used comply fully with the relevant standard.





- **Handle strength**

LMC handles are designed to resist a wide range of applications in many industries. All standard handles are investment-cast and triangular in section. The production method and triangular section guarantees excellent mechanical properties. The wear resistance of this material was tested using a Rockwell hardness tester. LMC handles achieve better test results than sintered handles. Sintered handles begin to fracture when subjected to a load of 1600 Kg, LMC handles do not even start to bend until subjected to a load of 1000 Kg. Even when subjected to a load of 2400 Kg, LMC cam & groove handles still show no sign of fracture.





Bend investment cast LMC handle



Fractured sintered handle

- **Seal properties**

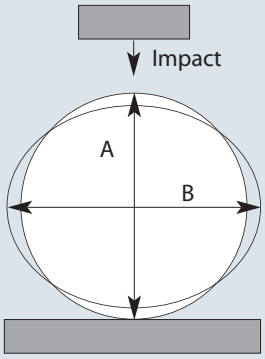
After chemical structure, seal compression set has the next most significant effect on the seal of cam & groove couplings. A seal of correct hardness will ensure that the cam & groove coupling is sealed properly and safely. Cam & groove seal hardness is tested using a durometer.

- **Thread dimensions**

All cam & groove threads are tested using thread gauges. Our production site has gauges for all dimensions and all standards.

- **Impact resistance**

Impact resistance tests were carried out on 3" and 4" aluminium couplers and nine other brands in order to test the mechanical strength of LMC cam & groove couplings. A 2.3 kg / 5 lbs weight was dropped from a height of 1.5 metres / 5 feet, and the impact on the coupler body measured.



Drop weight impact on bowl of coupler

Original ID: A
ID after impact: B

BRAND	PRODUCTION METHOD
E	Gravity cast
F	Gravity cast
G	Sand cast
H	High pressure die cast
I	High pressure die cast
J	Squeeze die cast
K	High pressure die cast
LMC	High pressure die cast
M	High pressure die cast

Size 3"

Type	C E	C F	C G	C H	C H	C I	C J	B K	B K	C K	C K	D K	C LMC
Original ID A	92.14	91.72	91.98	92.21	92.01	92.53	91.98	92.24	92.42	92.74	92.58	92.15	93.54
1	91.75	89.43	89.86	91.06	91.67	90.98	91.16	91.43	91.12	91.48	91.59	91.31	93.17
2	91.38	88.65		90.57	90.54	90.08	89.57	91.00	90.43	90.68	91.20	90.75	92.57
3	90.73			90.54	90.27	89.06	88.66	90.26	90.30	90.28	91.11	90.38	92.57
4	90.56			90.25	90.09			90.12	89.28		90.68	90.30	92.35
5				90.16	90.05			89.83			90.65	89.78	92.19
6				90.11	90.00						90.47	89.72	91.92
7					89.55							89.49	91.89
8					89.35							89.44	91.87
9					89.37							89.33	91.79
10					89.33								91.77
11					89.22								91.76
12					89.14								91.55
13													91.68
14													91.58
15													91.58
16													91.65
17													91.61
18													91.19
19													91.15
20													91.18
21													91.08
22													90.58
23													90.05

Impact times B

Measurements in mm

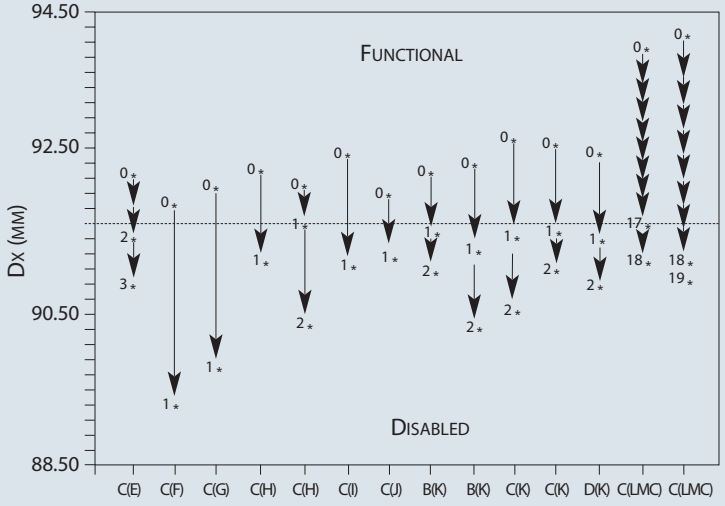
- Adaptor unable to fit in coupler
- Coupler cracked

Test result

The impact resistance test showed that the product quality of cam & groove couplings is variable. Nine couplers from different manufacturers were also tested.

Four brands of adaptor were unable to fit the corresponding coupler following a single impact from a 2.3 kg / 5 lbs weight dropped from a height of 1.5 metres / 5 feet. However, it took 18 such impacts before LMC-Couplings couplers were unable to fit their adaptors.

The average number of impacts required before fractures became aparent was 4.25. LMC-Couplings couplers resisted 23 impacts before showing signs of fracture; a result far in excess of the average value.



COATINGS

Sometimes standard cam & groove coupling materials, like stainless steel, are not sufficiently resistant to extremely aggressive chemicals. However, at LMC-Couplings, our couplings feature high-resistance coatings, such as:

- ECTFE
- PTFE
- PFA

- ECTFE (up to 1000µ)
  ECTFE (Ethylene chlorotrifluoroethylene) coatings are designed to resist highly-concentrated and aggressive chemicals. Couplings with an ECTFE-coating show excellent electric isolating and fire properties and resist to temperatures up to 150°C / 300°F.

- PFA (up to 200µ)
  The key quality of a PFA (Perfluoroalkoxy) coating is the temperature resistance up to 260°C / 500°F. Their effective anti- adhesive layer makes PFA coatings particulary well-suited to food and pharmaceutical industry applications.

- PTFE (up to 40µ)
  PTFE (Poly tetrafluoroethylene) coatings are only 40µ thick. PTFE-coated couplings can withstand temperatures up to 290°C / 550°F. Like PFA-coated couplings, PTFE couplings have excellent anti-adhesive qualities and are suitable for food industry applications.

- PVDF (up to 800µ)
  Like ECTFE coatings, PVDF (Polyvinylidene fluoride) coatings can resist highly-concentrated and aggressive chemicals, but with the added advantage of high temperature resistance. These couplings are wear-proof and also suitable for food industry applications.

PTFE liner

LMC-Couplings is able to provide his customers PTFE lined couplings. Our PTFE facility has been specially built to meet the highest industrial requirements. This room is separated from our other production facilities to ensure a clean and dust-free working environment.
PTFE lined couplings are used in the pharmaceutical, cosmetics and food industry for applications with a temperature range of maximum 290°C / 550°F. Please contact our sales department for further information.





ACCESSORIES

All LMC-Couplings, cam & groove couplings (stainless steel, brass, bronze, aluminium and polypropylene)* as standard are supplied with stainless steel investment-cast triangular-section handles. Stainless steel provides the best chemical resistance. Their triangular section and investment-casting production method improves the mechanical strength of the handle.



1

Even greater security and safety is ensured by LMC's cam & groove couplings with patented safety handles. Simply push the nut on the handle downwards and the coupling connection is sealed. The safety version of LMC's cam & groove couplings can be made extra-secure by using the safety pin, as on all standard LMC-Couplings cam & groove couplings.



2

Where dust caps (type DC) are used to terminate hose or pipe assemblies, LMC's lockable handles offer even higher safety levels. These patented L-shaped handles are physically locked, so that the dust cap can only be removed by unlocking the handles with a key.



3

* With exception of 8"



1



2



3

Handle types

TYPE HANDLE	MATERIAL	REFERENCE	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	5"	6"	8"
Investment-cast triangular handle standard	Stainless steel	VLHRPR	■	■	■	■	■	■	■	■	■	■	■	■
Investment-cast triangular handle	Brass	VLHRPM	-	-	■	■	■	■	-	■	■	-	-	-
Safety locking handle	Stainless steel	VLHRPR S	-	-	-	-	■	■	-	■	■	-	-	-
Cap L-handle	Stainless steel	VLHRPR L	-	-	-	■	■	■	■	■	■	■	■	-

■ available
- not available

8" aluminium with 4 handles
4" polypropylene with 3 handles

CROSS REFERENCES

Cam & groove couplings

COUPLING	TYPE	DESCRIPTION	EN REFERENCE	COMMON USED REF.
	**A**	Adapter, female threaded Federal Mil	-	633-ABS
	**AF**	Adapter, female threaded EN 14420-7 with thread seal	AF	633-ABSF
	**B**	Coupler, male threaded EN 14420-7 / Federal Mil	BF	633-BB
	**C**	Coupler, with serrated hose shank Federal Mil	-	633-C
	**CC**	Coupler, with hose shank EN 14420-7	CC	633-CC
	**D**	Coupler, female threaded Federal Mil	-	633-DBS
	**DF**	Coupler, female threaded EN 14420-7 with thread seal	DF	633-DBSF
	**E**	Adapter, with serrated hose shank Federal Mil	-	633-E
	**EC**	Adapter, with smooth hose shank EN 14420-7	EC	633-EC
	**F**	Adapter, male threaded Federal Mil / EN 14420-7	FF	633-FB
	**K**	Female dust cap Federal Mil / EN 14420-7	DC	634-B
	**P**	Male dust plug Federal Mil / EN 14420-7	DP	634-A

Cam & groove coupling ← **VL A * 13 ***

Material
A: Aluminium
B: Bronze
M: Brass
P: Polypropylene
R: Stainless steel

Size

-: Federal Mil A-A-59326
D: EN 14420-7 / DIN 2828
S: With safety handles
SD: EN 14420-7 / DIN 2828 with safety handles
N: NPT thread
SAF: Saflok version
SAFBO: Saflok Bleed off version

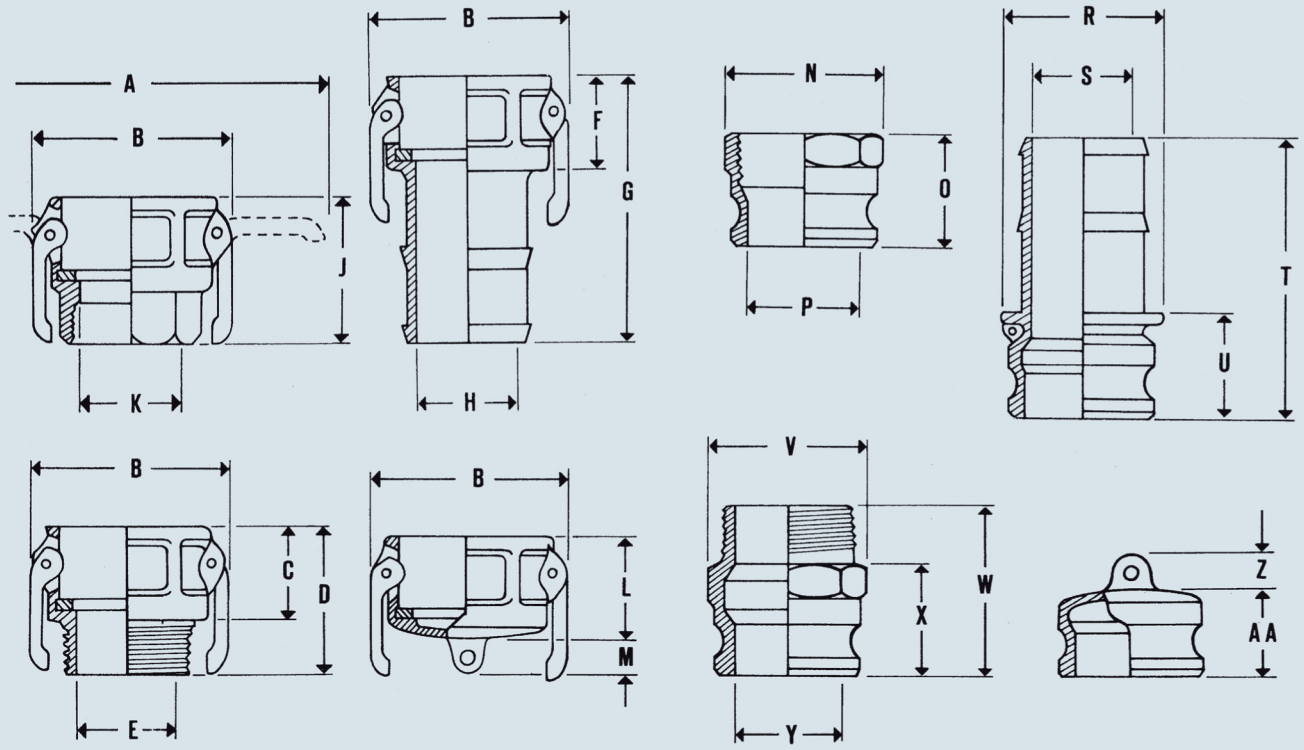
Cam & groove seals

Cam & groove coupling ← **VL X * 13** → Size

Seal

Material
B: NBR square seal
E: EPDM square seal
V: FPM square seal
H: CSM square seal
P: PTFE / EPDM open envelope seal
PG: PTFE / FPM closed envelope seal
PSG: FEP / Silicone closed square seal

DIMENSIONS



ALUMINIUM

ND	Inch	A	B	C	D	E	F	G	H	J	K	L	M
13	1/2"	67,00	38,50	29,80	46,80	12,00	32,00	72,60	13,70	46,70	26,80	32,00	14,25
19	3/4"	110,60	52,60	32,50	50,50	17,50	32,50	83,50	20,50	50,50	33,00	32,50	9,50
25	1"	136,00	62,20	39,00	61,00	24,10	39,00	98,00	27,00	61,00	40,00	39,00	9,50
32	1.1/4"	182,60	80,20	42,40	68,60	33,00	43,00	101,10	32,50	68,30	52,00	44,00	12,00
38	1.1/2"	190,20	87,80	46,00	68,50	38,00	46,00	109,00	39,60	68,50	56,00	47,70	8,70
50	2"	199,60	97,20	52,00	75,50	49,00	52,00	124,00	51,80	75,50	67,00	54,00	8,70
63	2.1/2"	212,30	109,90	57,00	87,50	62,70	54,00	138,00	65,00	89,80	83,70	54,00	12,00
75	3"	252,30	137,10	56,50	89,60	75,00	56,50	160,00	78,00	89,60	98,00	59,40	9,20
100	4"	280,30	165,00	58,00	94,00	101,00	58,00	168,00	102,50	94,00	125,00	61,60	9,50
125	5"	306,10	191,10	61,00	103,00	125,00	61,00	181,00	129,60	103,00	152,00	63,90	16,00
150	6"	414,50	240,00	65,00	105,00	149,50	65,00	216,00	155,00	105,00	180,90	66,00	18,00
200	8"	465,20	293,60	68,00	118,00	198,00	68,00	242,00	204,80	118,00	234,00	74,50	8,00

ND	Inch	N	O	P	R	S	T	U	V	W	X	Y	Z	AA
13	1/2"	27,00	41,70	13,80	-	13,90	71,00	38,00	26,90	60,50	41,70	13,40	9,70	31,00
19	3/4"	34,00	40,00	21,00	34,00	20,50	86,60	35,60	34,00	58,00	40,00	20,99	13,00	26,00
25	1"	40,00	47,60	23,80	40,00	27,00	130,60	44,60	40,00	59,60	37,60	29,00	13,00	33,00
32	1.1/4"	49,00	58,00	30,50	50,00	34,10	109,10	52,80	49,50	81,90	56,50	30,15	12,20	42,00
38	1.1/2"	56,00	54,80	36,30	60,00	39,60	115,50	52,50	55,00	77,50	55,00	36,30	12,80	38,00
50	2"	67,00	61,20	45,60	68,00	51,80	132,00	60,00	67,00	85,30	61,80	45,60	13,30	47,70
63	2.1/2"	83,20	84,00	59,00	82,00	65,00	147,50	63,50	83,80	101,40	71,00	59,00	18,00	53,00
75	3"	98,00	69,20	73,70	100,00	78,00	168,00	64,50	95,00	102,20	69,00	73,70	14,00	51,50
100	4"	125,00	76,40	98,20	130,00	102,50	179,60	69,60	123,00	112,50	77,20	98,20	14,80	53,40
125	5"	152,00	82,00	125,20	154,00	129,60	190,50	70,50	150,00	124,00	82,00	125,30	16,60	60,40
150	6"	195,00	78,60	150,00	183,00	155,00	224,50	73,50	193,50	104,50	76,00	150,00	30,00	59,00
200	8"	236,00	118,00	119,50	232,00	204,80	253,00	79,00	236,00	163,00	113,00	119,50	8,00	58,00

Dimensions in mm and are given as illustration only.

POLYPROPYLENE

ND	Inch	A	B	C	D	E	F	G	H	J	K	L	M
13	1/2"	66,40	37,70	33,00	53,00	12,50	33,00	73,60	15,00	53,00	29,00	34,50	11,00
13-19	1/2"-3/4"	110,30	53,30	33,00	53,00	12,50	33,00	73,60	15,00	53,00	29,00	-	-
19	3/4"	110,30	53,30	33,00	55,00	17,50	33,00	84,00	21,50	54,00	35,20	34,80	11,00
25	1"	130,80	61,90	39,00	62,00	22,00	39,00	100,00	27,00	61,00	40,60	41,10	11,50
32	1.1/4"	181,30	82,60	46,00	72,00	30,00	46,00	109,40	33,50	70,00	51,00	48,60	13,60
38-32	1.1/4"-1.1/2"	180,20	83,30	47,00	73,00	30,00	47,00	110,40	33,50	71,00	51,00	-	-
38	2.1/2"	180,20	83,30	46,00	72,00	35,80	46,00	112,80	39,20	71,00	60,00	48,80	13,50
50	2"	189,50	94,20	53,00	86,00	47,00	53,00	140,50	52,80	81,00	69,00	56,30	12,00
75	3"	245,00	128,10	59,00	99,00	70,00	59,00	162,60	78,50	95,00	102,00	65,20	16,00
100	4"	272,20	159,40	59,00	101,00	95,00	59,00	168,70	104,30	99,00	129,00	65,20	16,00

ND	Inch	N	O	P	R	S	T	U	V	W	X	Y	Z	AA
13	1/2"	29,00	46,60	12,10	27,00	15,00	78,20	37,60	27,00	59,60	39,60	12,10	11,00	27,70
13-19	1/2"-3/4"	35,20	41,60	16,50	35,00	15,00	78,20	37,60	35,20	61,60	41,60	16,50	-	-
19	3/4"	35,20	47,60	19,00	35,00	21,50	88,60	37,60	35,20	63,60	41,60	18,90	11,60	28,00
25	1"	41,00	48,60	23,00	40,00	27,00	107,60	46,60	40,00	71,60	48,60	22,80	13,40	35,20
32	1.1/4"	51,00	67,00	27,50	650,00	33,50	116,90	53,50	51,00	81,00	55,00	27,90	15,00	42,00
38-32	1.1/4"-1.1/2"	56,00	56,50	35,20	50,00	33,50	118,40	55,00	56,00	82,50	56,50	35,20	-	-
38	2.1/2"	60,00	67,50	35,80	57,00	39,20	121,80	55,00	39,20	82,50	56,50	35,80	14,70	43,80
50	2"	70,00	77,00	45,50	68,00	52,80	149,50	62,00	68,00	97,00	63,00	45,50	14,20	50,80
75	3"	101,00	91,40	70,40	98,00	78,50	173,10	69,50	98,00	111,20	71,20	70,40	15,20	64,80
100	4"	129,00	96,50	96,00	128,00	104,30	180,70	71,00	129,00	113,70	71,70	96,00	14,80	57,70

STAINLESS STEEL

ND	Inch	A	B	C	D	E	F	G	H	J	K	L	M
13	1/2"	67,00	38,50	31,00	46,20	11,50	31,45	80,00	14,20	47,00	26,60	32,50	13,50
19	3/4"	110,60	52,60	32,50	49,90	19,00	32,50	92,50	21,20	49,90	33,40	33,60	7,50
25	1"	136,00	62,20	38,50	59,80	24,20	38,50	107,60	27,00	59,80	38,60	39,70	8,00
32	1.1/4"	182,60	80,20	42,40	63,70	32,50	42,40	115,00	33,20	63,70	47,60	48,90	8,40
38	1.1/2"	190,20	87,80	45,20	67,60	38,50	45,20	121,30	39,60	67,60	55,00	46,90	8,50
50	2"	199,60	97,20	51,60	75,40	49,60	56,10	139,30	52,80	75,40	66,00	53,70	8,50
63	2.1/2"	212,30	109,90	53,00	86,00	65,00	52,20	149,50	65,00	85,00	82,00	54,50	8,80
75	3"	252,30	137,10	56,10	89,10	75,50	56,10	173,00	78,50	89,10	96,00	59,00	9,40
100	4"	280,30	165,00	56,40	93,40	101,00	56,40	180,00	103,80	93,40	124,00	60,40	12,00
125	5"	306,10	191,10	61,00	103,00	126,00	61,00	187,50	129,60	103,00	152,00	68,60	15,00
150	6"	414,50	240,00	64,00	107,00	149,00	84,00	243,00	154,50	103,00	180,00	64,00	16,00
200	8"	467,40	286,80	68,00	118,00	199,00	68,00	243,00	205,00	118,00	234,00	74,40	7,00

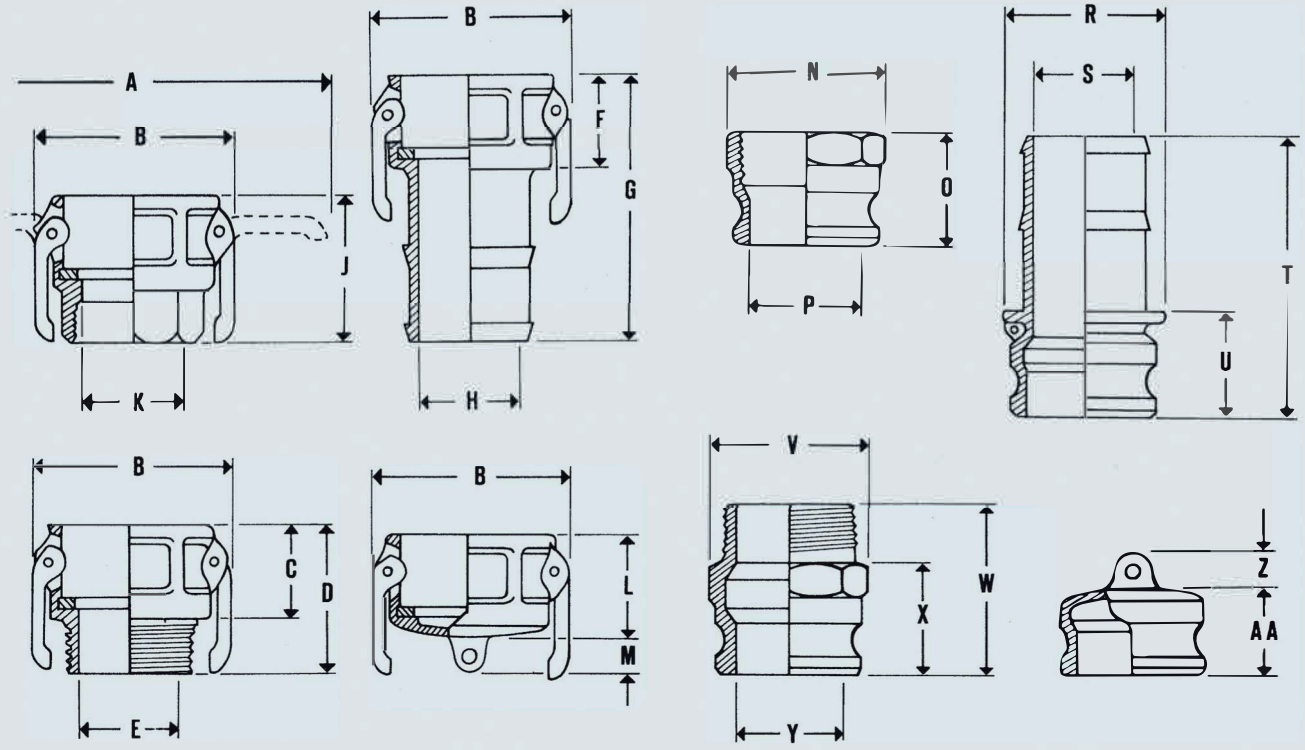
ND	Inch	N	O	P	R	S	T	U	V	W	X	Y	Z	AA
13	1/2"	26,30	42,30	13,50	23,80	14,20	72,00	39,00	25,20	57,00	40,50	13,45	13,75	29,00
19	3/4"	33,40	37,90	21,50	35,00	21,20	86,00	36,00	33,40	53,80	36,50	21,50	13,10	25,60
25	1"	38,60	46,60	24,20	39,00	27,00	103,80	44,80	38,60	68,60	47,00	24,20	13,20	33,20
32	1.1/4"	47,60	52,70	28,20	48,00	33,20	113,90	51,90	47,60	74,70	53,40	28,20	13,20	39,60
38	1.1/2"	55,00	54,70	36,40	56,60	39,60	119,70	55,70	55,00	77,40	54,40	36,40	13,10	41,30
50	2"	65,40	61,50	46,00	68,00	52,80	135,90	60,90	65,40	84,00	60,70	46,00	12,80	48,00
63	2.1/2"	82,00	81,70	56,60	82,00	65,00	144,70	61,70	80,00	99,70	67,70	59,60	13,20	49,20
75	3"	95,40	69,50	73,30	98,00	78,80	167,40	64,90	95,40	100,90	67,90	73,30	13,10	51,60
100	4"	124,00	77,70	98,40	127,00	103,80	174,50	67,50	122,00	112,00	74,90	98,40	16,80	54,40
125	5"	152,00	82,00	123,30	154,00	129,60	192,50	72,50	150,00	124,00	82,00	125,30	17,80	59,20
150	6"	189,50	82,00	150,00	178,50	154,70	254,00	77,00	189,00	126,30	83,30	149,80	24,70	56,50
200	8"	234,00	108,00	197,00	232,00	205,00	254,00	79,00	232,00	138,00	88,00	197,00	28,00	58,00

BRASS

ND	Inch	A	B	C	D	E	F	G	H	J	K	L	M
13	1/2"	67,00	38,50	30,20	46,20	13,30	30,20	66,20	14,60	46,20	26,00	31,60	14,40
19	3/4"	110,60	52,60	32,60	49,90	19,00	32,60	82,60	21,20	49,90	33,40	33,70	7,50
25	1"	136,00	62,20	38,50	59,80	24,20	38,50	973,50	27,00	59,80	38,60	39,70	7,50
32	1.1/4"	182,60	80,20	42,30	63,60	32,50	42,30	104,30	33,20	63,60	47,60	43,80	8,40
38	1.1/2"	190,20	87,80	45,20	67,20	38,50	45,20	109,20	39,60	67,20	55,40	46,90	8,50
50	2"	199,60	97,20	51,60	74,80	49,00	51,60	129,60	52,80	74,80	65,40	53,50	9,00
63	2.1/2"	212,30	109,90	52,20	83,40	62,00	53,20	136,20	65,00	83,40	78,80	54,60	9,00
75	3"	252,30	137,10	56,10	89,10	76,00	56,10	158,10	78,60	89,10	95,40	58,80	9,00
100	4"	280,30	165,00	56,40	93,40	104,00	56,40	163,40	103,80	93,40	124,00	60,00	9,00
125	5"	306,10	191,10	57,00	95,70	128,80	59,50	186,70	129,50	92,50	147,30	59,00	19,00
150	6"	414,50	240,00	65,50	105,90	153,40	64,60	230,00	153,50	109,50	180,00	63,50	28,00

ND	Inch	N	O	P	R	S	T	U	V	W	X	Y	Z	AA
13	1/2"	26,00	37,50	19,30	25,20	14,60	68,50	32,50	26,00	53,10	36,50	19,30	10,30	25,00
19	3/4"	33,40	37,90	26,20	35,00	21,20	86,00	36,00	33,70	55,20	37,90	26,20	15,10	25,60
25	1"	38,60	46,50	29,00	39,00	27,00	103,70	44,70	38,00	66,50	45,20	29,00	14,30	33,00
32	1.1/4"	47,60	52,70	35,20	48,00	33,20	113,90	51,90	47,60	73,70	52,40	35,20	13,40	39,60
38	1.1/2"	55,40	54,20	42,80	56,00	39,60	116,50	52,50	55,40	75,30	53,30	42,80	15,60	41,80
50	2"	65,40	61,40	52,40	71,00	52,80	137,40	59,40	65,00	83,80	60,60	52,40	16,20	48,80
63	2.1/2"	78,80	65,70	64,60	82,00	65,00	144,40	61,40	77,70	95,80	64,50	64,60	17,00	49,30
75	3"	95,40	69,50	81,20	98,00	78,60	164,80	62,80	93,50	101,50	68,50	81,20	16,50	51,40
100	4"	124,00	77,50	109,30	125,00	103,80	174,40	67,40	122,00	113,00	76,00	109,30	10,00	53,10
125	5"	148,00	78,80	128,80	148,00	128,30	189,70	63,10	148,50	115,20	78,50	128,80	19,00	51,20
150	6"	182,50	83,80	154,80	181,00	156,80	245,00	81,60	183,00	120,50	80,60	153,70	30,20	61,60

DIMENSIONS



CAM & GROOVE COUPLINGS

TYPE A: ADAPTOR FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
15	1/2"	G 1/2	Aluminium	0.02	VLAA013
20	3/4"	G 3/4	Aluminium	0.04	VLAA019
25	1"	G 1	Aluminium	0.05	VLAA025
32	1.1/4"	G 1.1/4	Aluminium	0.09	VLAA032
40	1.1/2"	G 1.1/2	Aluminium	0.11	VLAA038
50	2"	G 2	Aluminium	0.15	VLAA050
65	2.1/2"	G 2.1/2	Aluminium	0.24	VLAA063
80	3"	G 3	Aluminium	0.27	VLAA075
100	4"	G 4	Aluminium	0.58	VLAA100
125	5"	G 5	Aluminium	0.90	VLAA125
150	6"	G 6	Aluminium	0.84	VLAA150
200	8"	G 8	Aluminium	2.31	VLAA200



15	1/2"	G 1/2	Stainless steel	0.07	VLAR013
20	3/4"	G 3/4	Stainless steel	0.11	VLAR019
25	1"	G 1	Stainless steel	0.15	VLAR025
32	1.1/4"	G 1.1/4	Stainless steel	0.24	VLAR032
40	1.1/2"	G 1.1/2	Stainless steel	0.32	VLAR038
50	2"	G 2	Stainless steel	0.42	VLAR050
65	2.1/2"	G 2.1/2	Stainless steel	0.71	VLAR063
80	3"	G 3	Stainless steel	0.73	VLAR075
100	4"	G 4	Stainless steel	1.42	VLAR100
125	5"	G 5	Stainless steel	1.92	VLAR125
150	6"	G 6	Stainless steel	3.17	VLAR150
200	8"	G 8	Stainless steel	2.31	VLAR200



15	1/2"	G 1/2	Brass	0.07	VLAM013
20	3/4"	G 3/4	Brass	0.10	VLAM019
25	1"	G 1	Brass	0.15	VLAM025
32	1.1/4"	G 1.1/4	Brass	0.20	VLAM032
40	1.1/2"	G 1.1/2	Brass	0.29	VLAM038
50	2"	G 2	Brass	0.35	VLAM050
65	2.1/2"	G 2.1/2	Brass	0.72	VLAM063
80	3"	G 3	Brass	0.73	VLAM075
100	4"	G 4	Brass	1.48	VLAM100
125	5"	G 5	Brass	1.79	VLAM125
150	6"	G 6	Brass	3.38	VLAM150



20	3/4"	G 3/4	Bronze	0.12	VLAB019
25	1"	G 1	Bronze	0.16	VLAB025
32	1.1/4"	G 1.1/4	Bronze	0.22	VLAB032
40	1.1/2"	G 1.1/2	Bronze	0.29	VLAB038
50	2"	G 2	Bronze	0.47	VLAB050
65	2.1/2"	G 2.1/2	Bronze	0.81	VLAB063
80	3"	G 3	Bronze	0.80	VLAB075
100	4"	G 4	Bronze	1.46	VLAB100



15	1/2"	G 1/2	Polypropylene	0.02	VLAP013
20	3/4"	G 3/4	Polypropylene	0.02	VLAP019
25	1"	G 1	Polypropylene	0.03	VLAP025
32	1.1/4"	G 1.1/4	Polypropylene	0.05	VLAP032
40	1.1/2"	G 1.1/2	Polypropylene	0.07	VLAP038
50	2"	G 2	Polypropylene	0.09	VLAP050
80	3"	G 3	Polypropylene	0.21	VLAP075
100	4"	G 4	Polypropylene	0.36	VLAP100



Coupling standard: Federal Mil A-A-59326
Female thread: EN ISO 228-1, BSP
ANSI B 1.20.1, NPT on request
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE COUPLINGS

TYPE B: COUPLER MALE THREADED

ND	Inch	Thread EN 10226-1	Material	Coupler seal	Handles	Weight/pc Kg	Reference
15	1/2"	R 1/2	Aluminium	NBR	2	0.07	VLBA013
20	3/4"	R 3/4	Aluminium	NBR	2	0.10	VLBA019
25	1"	R 1	Aluminium	NBR	2	0.16	VLBA025
32	1.1/4"	R 1.1/4	Aluminium	NBR	2	0.27	VLBA032
40	1.1/2"	R 1.1/2	Aluminium	NBR	2	0.30	VLBA038
50	2"	R 2	Aluminium	NBR	2	0.35	VLBA050
65	2.1/2"	R 2.1/2	Aluminium	NBR	2	0.43	VLBA063
80	3"	R 3	Aluminium	NBR	2	0.68	VLBA075
100	4"	R 4	Aluminium	NBR	2	0.92	VLBA100
125	5"	R5	Aluminium	NBR	2	1.81	VLBA125
150	6"	R 6	Aluminium	NBR	2	1.78	VLBA150



15	1/2"	R 1/2	Stainless steel	NBR	2	0.12	VLBR013
20	3/4"	R 3/4	Stainless steel	NBR	2	0.20	VLBR019
25	1"	R 1	Stainless steel	NBR	2	0.29	VLBR025
32	1.1/4"	R 1.1/4	Stainless steel	NBR	2	0.47	VLBR032
40	1.1/2"	R 1.1/2	Stainless steel	NBR	2	0.54	VLBR038
50	2"	R 2	Stainless steel	NBR	2	0.67	VLBR050
65	2.1/2"	R 2.1/2	Stainless steel	NBR	2	1.14	VLBR063
80	3"	R 3	Stainless steel	NBR	2	1.35	VLBR075
100	4"	R 4	Stainless steel	NBR	2	1.97	VLBR100
125	5"	R 5	Stainless steel	NBR	2	2.98	VLBR125
150	6"	R 6	Stainless steel	NBR	2	4.11	VLBR150
200	8"	G 8	Stainless steel	NBR	4	2.60	VLBR200



15	1/2"	R 1/2	Brass	NBR	2	0.17	VLBM013
20	3/4"	R 3/4	Brass	NBR	2	0.21	VLBM019
25	1"	R 1	Brass	NBR	2	0.32	VLBM025
32	1.1/4"	R 1.1/4	Brass	NBR	2	0.45	VLBM032
40	1.1/2"	R 1.1/2	Brass	NBR	2	0.52	VLBM038
50	2"	R 2	Brass	NBR	2	0.64	VLBM050
65	2.1/2"	R 2.1/2	Brass	NBR	2	0.94	VLBM063
80	3"	R 3	Brass	NBR	2	1.38	VLBM075
100	4"	R 4	Brass	NBR	2	1.94	VLBM100
125	5"	R 5	Brass	NBR	2	3.98	VLBM125
150	6"	R 6	Brass	NBR	2	3.65	VLBM150



20	3/4"	R 3/4	Bronze	NBR	2	0.22	VLBB019
25	1"	R 1	Bronze	NBR	2	0.34	VLBB025
32	1.1/4"	R 1.1/4	Bronze	NBR	2	0.53	VLBB032
40	1.1/2"	R 1.1/2	Bronze	NBR	2	0.59	VLBB038
50	2"	R 2	Bronze	NBR	2	0.73	VLBB050
65	2.1/2"	R 2.1/2	Bronze	NBR	2	1.12	VLBB063
80	3"	R 3	Bronze	NBR	2	1.58	VLBB075
100	4"	R 4	Bronze	NBR	2	2.02	VLBB100



15	1/2"	R 1/2	Polypropylene	EPDM	2	0.07	VLBP013
20	3/4"	R 3/4	Polypropylene	EPDM	2	0.08	VLBP019
25	1"	R 1	Polypropylene	EPDM	2	0.11	VLBP025
32	1.1/4"	R 1.1/4	Polypropylene	EPDM	2	0.21	VLBP032
40	1.1/2"	R 1.1/2	Polypropylene	EPDM	2	0.21	VLBP038
50	2"	R 2	Polypropylene	EPDM	2	0.25	VLBP050
80	3"	R 3	Polypropylene	EPDM	2	0.50	VLBP075
100	4"	R 4	Polypropylene	EPDM	3	0.76	VLBP100



Coupling standard: Federal Mil A-A-59326 / EN 14420-7 / DIN 2828
Male thread: EN 10226-1 / DIN 2999-1, BSPT
ANSI B 1.20.1, NPT on request
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE COUPLINGS

TYPE C: COUPLER WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Collar	Material	Coupler seal	Handles	Weight/pc Kg	Reference
15	1/2"	13	-	Aluminium	NBR	2	0.07	VLCA013
20	3/4"	19	-	Aluminium	NBR	2	0.12	VLCA019
25	1"	25	-	Aluminium	NBR	2	0.17	VLCA025
32	1.1/4"	32	-	Aluminium	NBR	2	0.28	VLCA032
40	1.1/2"	38	-	Aluminium	NBR	2	0.34	VLCA038
50	2"	50	-	Aluminium	NBR	2	0.44	VLCA050
65	2.1/2"	63	-	Aluminium	NBR	2	0.59	VLCA063
80	3"	75	-	Aluminium	NBR	2	0.86	VLCA075
100	4"	100	-	Aluminium	NBR	2	1.25	VLCA100
125	5"	125	-	Aluminium	NBR	2	1.68	VLCA125
150	6"	150	-	Aluminium	NBR	2	2.66	VLCA150
200	8"	200	-	Aluminium	NBR	4	4.75	VLCA200



15	1/2"	13	-	Stainless steel	NBR	2	0.13	VLCR013
20	3/4"	19	x	Stainless steel	NBR	2	0.25	VLCR019
25	1"	25	x	Stainless steel	NBR	2	0.37	VLCR025
32	1.1/4"	32	x	Stainless steel	NBR	2	0.59	VLCR032
40	1.1/2"	38	x	Stainless steel	NBR	2	0.70	VLCR038
50	2"	50	x	Stainless steel	NBR	2	0.81	VLCR050
65	2.1/2"	63	x	Stainless steel	NBR	2	1.34	VLCR063
80	3"	75	x	Stainless steel	NBR	2	1.97	VLCR075
100	4"	100	x	Stainless steel	NBR	2	3.14	VLCR100
125	5"	125	x	Stainless steel	NBR	2	4.96	VLCR125
150	6"	150	x	Stainless steel	NBR	2	6.58	VLCR150
200	8"	200	-	Stainless steel	NBR	4	12.50	VLCR200



15	1/2"	13	x	Brass	NBR	2	0.15	VLCM013
20	3/4"	19	-	Brass	NBR	2	0.23	VLCM019
25	1"	25	-	Brass	NBR	2	0.36	VLCM025
32	1.1/4"	32	-	Brass	NBR	2	0.49	VLCM032
40	1.1/2"	38	-	Brass	NBR	2	0.62	VLCM038
50	2"	50	-	Brass	NBR	2	0.77	VLCM050
65	2.1/2"	63	-	Brass	NBR	2	1.07	VLCM063
80	3"	75	-	Brass	NBR	2	1.58	VLCM075
100	4"	100	-	Brass	NBR	2	4.13	VLCM100
125	5"	125	-	Brass	NBR	2	3.32	VLCM125
150	6"	150	-	Brass	NBR	2	6.05	VLCM150



20	3/4"	19	-	Bronze	NBR	2	0.25	VLCB019
25	1"	25	-	Bronze	NBR	2	0.39	VLCB025
32	1.1/4"	32	-	Bronze	NBR	2	0.55	VLCB032
40	1.1/2"	38	-	Bronze	NBR	2	0.74	VLCB038
50	2"	50	-	Bronze	NBR	2	0.87	VLCB050
65	2.1/2"	63	-	Bronze	NBR	2	1.32	VLCB063
80	3"	75	-	Bronze	NBR	2	1.96	VLCB075
100	4"	100	-	Bronze	NBR	2	3.01	VLCB100



15	1/2"	13	-	Polypropylene	EPDM	2	0.07	VLCP013
20	3/4"	19	-	Polypropylene	EPDM	2	0.08	VLCP019
25	1"	25	-	Polypropylene	EPDM	2	0.12	VLCP025
32	1.1/4"	32	-	Polypropylene	EPDM	2	0.23	VLCP032
40	1.1/2"	38	-	Polypropylene	EPDM	2	0.23	VLCP038
50	2"	50	-	Polypropylene	EPDM	2	0.31	VLCP050
80	3"	75	-	Polypropylene	EPDM	2	0.64	VLCP075
100	4"	100	-	Polypropylene	EPDM	3	0.90	VLCP100



Coupling standard: Federal Mil A-A-59326
Assembly: worm drive clamps, buckling, binding and band clamps
Stainless steel: AISI 316 - EN 1.4401
Hose shank and collar are subject to change without prior notice

CAM & GROOVE COUPLINGS

TYPE D: COUPLER FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Coupler seal	Handles	Weight/pc Kg	Reference
15	1/2"	G 1/2	Aluminium	NBR	2	0.06	VLDA013
20	3/4"	G 3/4	Aluminium	NBR	2	0.12	VLDA019
25	1"	G 1	Aluminium	NBR	2	0.16	VLDA025
32	1.1/4"	G 1.1/4	Aluminium	NBR	2	0.28	VLDA032
40	1.1/2"	G 1.1/2	Aluminium	NBR	2	0.32	VLDA038
50	2"	G 2	Aluminium	NBR	2	0.36	VLDA050
65	2.1/2"	G 2.1/2	Aluminium	NBR	2	0.47	VLDA063
80	3"	G 3	Aluminium	NBR	2	0.73	VLDA075
100	4"	G 4	Aluminium	NBR	2	1.21	VLDA100
125	5"	G 5	Aluminium	NBR	2	1.40	VLDA125
150	6"	G 6	Aluminium	NBR	2	2.16	VLDA150
200	8"	G 8	Aluminium	NBR	4	2.60	VLDA200
15	1/2"	G 1/2	Stainless steel	NBR	2	0.13	VLDR013
20	3/4"	G 3/4	Stainless steel	NBR	2	0.23	VLDR019
25	1"	G 1	Stainless steel	NBR	2	0.31	VLDR025
32	1.1/4"	G 1.1/4	Stainless steel	NBR	2	0.49	VLDR032
40	1.1/2"	G 1.1/2	Stainless steel	NBR	2	0.55	VLDR038
50	2"	G 2	Stainless steel	NBR	2	0.70	VLDR050
65	2.1/2"	G 2.1/2	Stainless steel	NBR	2	1.00	VLDR063
80	3"	G 3	Stainless steel	NBR	2	1.30	VLDR075
100	4"	G 4	Stainless steel	NBR	2	2.14	VLDR100
125	5"	G 5	Stainless steel	NBR	2	3.54	VLDR125
150	6"	G 6	Stainless steel	NBR	2	4.61	VLDR150
200	8"	G 8	Stainless steel	NBR	4	2.60	VLDR200
15	1/2"	G 1/2	Brass	NBR	2	0.16	VLDM013
20	3/4"	G 3/4	Brass	NBR	2	0.22	VLDM019
25	1"	G 1	Brass	NBR	2	0.32	VLDM025
32	1.1/4"	G 1.1/4	Brass	NBR	2	0.46	VLDM032
40	1.1/2"	G 1.1/2	Brass	NBR	2	0.54	VLDM038
50	2"	G 2	Brass	NBR	2	0.67	VLDM050
65	2.1/2"	G 2.1/2	Brass	NBR	2	0.94	VLDM063
80	3"	G 3	Brass	NBR	2	1.40	VLDM075
100	4"	G 4	Brass	NBR	2	2.09	VLDM100
125	5"	G 5	Brass	NBR	2	2.58	VLDM125
150	6"	G 6	Brass	NBR	2	5.02	VLDM150
20	3/4"	G 3/4	Bronze	NBR	2	0.23	VLDB019
25	1"	G 1	Bronze	NBR	2	0.35	VLDB025
32	1.1/4"	G 1.1/4	Bronze	NBR	2	0.50	VLDB032
40	1.1/2"	G 1.1/2	Bronze	NBR	2	0.66	VLDB038
50	2"	G 2	Bronze	NBR	2	0.78	VLDB050
65	2.1/2"	G 2.1/2	Bronze	NBR	2	0.95	VLDB063
80	3"	G 3	Bronze	NBR	2	1.63	VLDB075
100	4"	G 4	Bronze	NBR	2	2.42	VLDB100
15	1/2"	G 1/2	Polypropylene	EPDM	2	0.07	VLDP013
20	3/4"	G 3/4	Polypropylene	EPDM	2	0.08	VLDP019
25	1"	G 1	Polypropylene	EPDM	2	0.13	VLDP025
32	1.1/4"	G 1.1/4	Polypropylene	EPDM	2	0.21	VLDP032
40	1.1/2"	G 1.1/2	Polypropylene	EPDM	2	0.23	VLDP038
50	2"	G 2	Polypropylene	EPDM	2	0.27	VLDP050
80	3"	G 3	Polypropylene	EPDM	2	0.50	VLDP075
100	4"	G 4	Polypropylene	EPDM	3	0.75	VLDP100











Coupling standard: Federal Mil A-A-59326
Female thread: EN ISO 228-1, BSP
ANSI B 1.20.1, NPT on request
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE COUPLINGS

TYPE E: ADAPTOR WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Collar	Material	Weight/pc Kg	Reference
15	1/2"	13	-	Aluminium	0.03	VLEA013
20	3/4"	19	x	Aluminium	0.05	VLEA019
25	1"	25	x	Aluminium	0.09	VLEA025
32	1.1/4"	32	x	Aluminium	0.12	VLEA032
40	1.1/2"	38	x	Aluminium	0.19	VLEA038
50	2"	50	x	Aluminium	0.28	VLEA050
65	2.1/2"	63	x	Aluminium	0.45	VLEA063
80	3"	75	x	Aluminium	0.66	VLEA075
100	4"	100	x	Aluminium	1.13	VLEA100
125	5"	125	x	Aluminium	1.48	VLEA125
150	6"	150	x	Aluminium	2.20	VLEA150
200	8"	200	-	Aluminium	3.60	VLEA200
15	1/2"	13	x	Stainless steel	0.07	VLER013
20	3/4"	19	x	Stainless steel	0.14	VLER019
25	1"	25	x	Stainless steel	0.25	VLER025
32	1.1/4"	32	x	Stainless steel	0.37	VLER032
40	1.1/2"	38	x	Stainless steel	0.56	VLER038
50	2"	50	x	Stainless steel	0.85	VLER050
65	2.1/2"	63	x	Stainless steel	1.17	VLER063
80	3"	75	x	Stainless steel	1.73	VLER075
100	4"	100	x	Stainless steel	2.85	VLER100
125	5"	125	x	Stainless steel	4.05	VLER125
150	6"	150	x	Stainless steel	5.64	VLER150
200	8"	200	-	Stainless steel	10.10	VLER200
15	1/2"	13	-	Brass	0.11	VLEM013
20	3/4"	19	x	Brass	0.16	VLEM019
25	1"	25	x	Brass	0.24	VLEM025
32	1.1/4"	32	x	Brass	0.33	VLEM032
40	1.1/2"	38	x	Brass	0.44	VLEM038
50	2"	50	x	Brass	0.73	VLEM050
65	2.1/2"	63	x	Brass	0.96	VLEM063
80	3"	75	x	Brass	1.25	VLEM075
100	4"	100	x	Brass	1.91	VLEM100
125	5"	125	x	Brass	4.54	VLEM125
150	6"	150	x	Brass	5.07	VLEM150
20	3/4"	19	x	Bronze	0.18	VLEB019
25	1"	25	x	Bronze	0.29	VLEB025
32	1.1/4"	32	x	Bronze	0.40	VLEB032
40	1.1/2"	38	x	Bronze	0.56	VLEB038
50	2"	50	x	Bronze	0.80	VLEB050
65	2.1/2"	63	x	Bronze	1.12	VLEB063
80	3"	75	x	Bronze	1.67	VLEB075
100	4"	100	x	Bronze	1.96	VLEB100
15	1/2"	13	x	Polypropylene	0.01	VLEP013
20	3/4"	19	x	Polypropylene	0.03	VLEP019
25	1"	25	x	Polypropylene	0.04	VLEP025
32	1.1/4"	32	x	Polypropylene	0.07	VLEP032
40	1.1/2"	38	x	Polypropylene	0.09	VLEP038
50	2"	50	x	Polypropylene	0.15	VLEP050
80	3"	75	x	Polypropylene	0.35	VLEP075
100	4"	100	x	Polypropylene	0.55	VLEP100











Coupling standard: Federal Mil A-A-59326
Assembly: worm drive clamps, buckling, binding and band clamps
Stainless steel: AISI 316 - EN 1.4401
Hose shank and collar are subject to change without prior notice

CAM & GROOVE COUPLINGS

TYPE F: ADAPTOR MALE THREADED

ND	Inch	Thread EN 10226-1	Material	Weight/pc Kg	Reference
15	1/2"	R 1/2	Aluminium	0.03	VLFA013
20	3/4"	R 3/4	Aluminium	0.07	VLFA019
25	1"	R 1	Aluminium	0.09	VLFA025
32	1.1/4"	R 1.1/4	Aluminium	0.12	VLFA032
40	1.1/2"	R 1.1/2	Aluminium	0.18	VLFA038
50	2"	R 2	Aluminium	0.26	VLFA050
65	2.1/2"	R 2.1/2	Aluminium	0.36	VLFA063
80	3"	R 3	Aluminium	0.51	VLFA075
100	4"	R 4	Aluminium	0.92	VLFA100
125	5"	R 5	Aluminium	1.34	VLFA125
150	6"	R 6	Aluminium	1.44	VLFA150
200	8"	R 8	Aluminium	3.40	VLFA200



15	1/2"	R 1/2	Stainless steel	0.09	VLFR013
20	3/4"	R 3/4	Stainless steel	0.16	VLFR019
25	1"	R 1	Stainless steel	0.26	VLFR025
32	1.1/4"	R 1.1/4	Stainless steel	0.40	VLFR032
40	1.1/2"	R 1.1/2	Stainless steel	0.52	VLFR038
50	2"	R 2	Stainless steel	0.69	VLFR050
65	2.1/2"	R 2.1/2	Stainless steel	0.98	VLFR063
80	3"	R 3	Stainless steel	1.42	VLFR075
100	4"	R 4	Stainless steel	2.52	VLFR100
125	5"	R 5	Stainless steel	3.79	VLFR125
150	6"	R 6	Stainless steel	5.38	VLFR150
200	8"	R 8	Stainless steel	7.00	VLFR200



15	1/2"	R 1/2	Brass	0.09	VLFM013
20	3/4"	R 3/4	Brass	0.15	VLFM019
25	1"	R 1	Brass	0.23	VLFM025
32	1.1/4"	R 1.1/4	Brass	0.30	VLFM032
40	1.1/2"	R 1.1/2	Brass	0.35	VLFM038
50	2"	R 2	Brass	0.51	VLFM050
65	2.1/2"	R 2.1/2	Brass	0.80	VLFM063
80	3"	R 3	Brass	0.94	VLFM075
100	4"	R 4	Brass	1.71	VLFM100
125	5"	R 5	Brass	3.32	VLFM125
150	6"	R 6	Brass	3.78	VLFM150



20	3/4"	R 3/4	Bronze	0.16	VLFB019
25	1"	R 1	Bronze	0.24	VLFB025
32	1.1/4"	R 1.1/4	Bronze	0.31	VLFB032
40	1.1/2"	R 1.1/2	Bronze	0.42	VLFB038
50	2"	R 2	Bronze	0.66	VLFB050
65	2.1/2"	R 2.1/2	Bronze	0.95	VLFB063
80	3"	R 3	Bronze	1.25	VLFB075
100	4"	R 4	Bronze	2.32	VLFB100



15	1/2"	R 1/2	Polypropylene	0.02	VLFP013
20	3/4"	R 3/4	Polypropylene	0.03	VLFP019
25	1"	R 1	Polypropylene	0.05	VLFP025
32	1.1/4"	R 1.1/4	Polypropylene	0.08	VLFP032
40	1.1/2"	R 1.1/2	Polypropylene	0.10	VLFP038
50	2"	R 2	Polypropylene	0.14	VLFP050
80	3"	R 3	Polypropylene	0.29	VLFP075
100	4"	R 4	Polypropylene	0.42	VLFP100



Coupling standard: Federal Mil A-A-59326 / EN 14420-7 / DIN 2828
Male thread: EN 10226-1 / DIN 2999-1, BSPT
ANSI B 1.20.1, NPT on request
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE COUPLINGS

TYPE DC: FEMALE DUST CAP

ND	Inch	Material	Coupler seal	Handles	Weight/pc Kg	Reference
15	1/2"	Aluminium	NBR	2	0.05	VLKA013
20	3/4"	Aluminium	NBR	2	0.10	VLKA019
25	1"	Aluminium	NBR	2	0.14	VLKA025
32	1.1/4"	Aluminium	NBR	2	0.24	VLKA032
40	1.1/2"	Aluminium	NBR	2	0.27	VLKA038
50	2"	Aluminium	NBR	2	0.33	VLKA050
65	2.1/2"	Aluminium	NBR	2	0.41	VLKA063
80	3"	Aluminium	NBR	2	0.65	VLKA075
100	4"	Aluminium	NBR	2	0.92	VLKA100
125	5"	Aluminium	NBR	2	1.16	VLKA125
150	6"	Aluminium	NBR	2	1.78	VLKA150
200	8"	Aluminium	NBR	4	4.20	VLKA200
15	1/2"	Stainless steel	NBR	2	0.13	VLKR013
20	3/4"	Stainless steel	NBR	2	0.18	VLKR019
25	1"	Stainless steel	NBR	2	0.25	VLKR025
32	1.1/4"	Stainless steel	NBR	2	0.43	VLKR032
40	1.1/2"	Stainless steel	NBR	2	0.51	VLKR038
50	2"	Stainless steel	NBR	2	0.76	VLKR050
65	2.1/2"	Stainless steel	NBR	2	0.84	VLKR063
80	3"	Stainless steel	NBR	2	1.01	VLKR075
100	4"	Stainless steel	NBR	2	1.73	VLKR100
125	5"	Stainless steel	NBR	2	2.74	VLKR125
150	6"	Stainless steel	NBR	2	4.28	VLKR150
200	8"	Stainless steel	NBR	4	5.30	VLKR200
15	1/2"	Brass	NBR	2	0.12	VLKM013
20	3/4"	Brass	NBR	2	0.13	VLKM019
25	1"	Brass	NBR	2	0.27	VLKM025
32	1.1/4"	Brass	NBR	2	0.41	VLKM032
40	1.1/2"	Brass	NBR	2	0.48	VLKM038
50	2"	Brass	NBR	2	0.60	VLKM050
65	2.1/2"	Brass	NBR	2	0.77	VLKM063
80	3"	Brass	NBR	2	1.20	VLKM075
100	4"	Brass	NBR	2	1.87	VLKM100
125	5"	Brass	NBR	2	2.10	VLKM125
150	6"	Brass	NBR	2	3.72	VLKM150
20	3/4"	Bronze	NBR	2	0.18	VLKB019
25	1"	Bronze	NBR	2	0.31	VLKB025
32	1.1/4"	Bronze	NBR	2	0.49	VLKB032
40	1.1/2"	Bronze	NBR	2	0.56	VLKB038
50	2"	Bronze	NBR	2	0.62	VLKB050
65	2.1/2"	Bronze	NBR	2	0.92	VLKB063
80	3"	Bronze	NBR	2	1.30	VLKB075
100	4"	Bronze	NBR	2	2.03	VLKB100
15	1/2"	Polypropylene	EPDM	2	0.07	VLKP013
20	3/4"	Polypropylene	EPDM	2	0.07	VLKP019
25	1"	Polypropylene	EPDM	2	0.10	VLKP025
32	1.1/4"	Polypropylene	EPDM	2	0.20	VLKP032
40	1.1/2"	Polypropylene	EPDM	2	0.22	VLKP038
50	2"	Polypropylene	EPDM	2	0.24	VLKP050
80	3"	Polypropylene	EPDM	2	0.43	VLKP075
100	4"	Polypropylene	EPDM	3	0.67	VLKP100











Coupling standard: Federal Mil A-A-59326 / EN 14420-7 / DIN 2828
Standard hole for chain
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE COUPLINGS

TYPE DP: MALE DUST PLUG

ND	Inch	Material	Weight/pc Kg	Reference
15	1/2"	Aluminium	0.02	VLPA013
20	3/4"	Aluminium	0.03	VLPA019
25	1"	Aluminium	0.05	VLPA025
32	1.1/4"	Aluminium	0.07	VLPA032
40	1.1/2"	Aluminium	0.12	VLPA038
50	2"	Aluminium	0.16	VLPA050
65	2.1/2"	Aluminium	0.22	VLPA063
80	3"	Aluminium	0.28	VLPA075
100	4"	Aluminium	0.50	VLPA100
125	5"	Aluminium	0.55	VLPA125
150	6"	Aluminium	0.74	VLPA150



15	1/2"	Stainless steel	0.06	VLPR013
20	3/4"	Stainless steel	0.08	VLPR019
25	1"	Stainless steel	0.13	VLPR025
32	1.1/4"	Stainless steel	0.25	VLPR032
40	1.1/2"	Stainless steel	0.32	VLPR038
50	2"	Stainless steel	0.46	VLPR050
65	2.1/2"	Stainless steel	0.67	VLPR063
80	3"	Stainless steel	0.93	VLPR075
100	4"	Stainless steel	1.59	VLPR100
125	5"	Stainless steel	1.90	VLPR125
150	6"	Stainless steel	3.84	VLPR150
150	8"	Stainless steel	5.00	VLPR200



15	1/2"	Brass	0.07	VLPM013
20	3/4"	Brass	0.09	VLPM019
25	1"	Brass	0.13	VLPM025
32	1.1/4"	Brass	0.20	VLPM032
40	1.1/2"	Brass	0.24	VLPM038
50	2"	Brass	0.40	VLPM050
65	2.1/2"	Brass	0.59	VLPM063
80	3"	Brass	0.72	VLPM075
100	4"	Brass	1.03	VLPM100
125	5"	Brass	1.60	VLPM125
150	6"	Brass	1.80	VLPM150



20	3/4"	Bronze	0.10	VLPB019
25	1"	Bronze	0.15	VLPB025
32	1.1/4"	Bronze	0.24	VLPB032
40	1.1/2"	Bronze	0.32	VLPB038
50	2"	Bronze	0.47	VLPB050
65	2.1/2"	Bronze	0.60	VLPB063
80	3"	Bronze	0.90	VLPB075
100	4"	Bronze	1.42	VLPB100



15	1/2"	Polypropylene	0.01	VLPP013
20	3/4"	Polypropylene	0.02	VLPP019
25	1"	Polypropylene	0.02	VLPP025
32	1.1/4"	Polypropylene	0.04	VLPP032
40	1.1/2"	Polypropylene	0.05	VLPP038
50	2"	Polypropylene	0.08	VLPP050
80	3"	Polypropylene	0.22	VLPP075
100	4"	Polypropylene	0.26	VLPP100



Coupling standard: Federal Mil A-A-5932 / EN 14420-7 / DIN 2828
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE COUPLINGS EN 14420-7 / DIN 2828

TYPE AF: ADAPTOR FEMALE THREADED WITH THREAD SEAL

ND	Inch	Thread EN ISO 228-1	Thread seal	Material	Weight/pc Kg	Reference
20	3/4″	G 3/4	PTFE	Stainless steel	0.11	VLAR019D
25	1″	G 1	PTFE	Stainless steel	0.18	VLAR025D
32	1.1/4″	G 1.1/4	PTFE	Stainless steel	0.31	VLAR032D
40	1.1/2″	G 1.1/2	PTFE	Stainless steel	0.44	VLAR038D
50	2″	G 2	PTFE	Stainless steel	0.60	VLAR050D
65	2.1/2″	G 2.1/2	PTFE	Stainless steel	1.02	VLAR063D
80	3″	G 3	PTFE	Stainless steel	1.12	VLAR075D
100	4″	G 4	PTFE	Stainless steel	1.87	VLAR100D
50	2″	G 2	PU	Brass	0.71	VLAM050D
65	2.1/2″	G 2.1/2	PU	Brass	0.80	VLAM063D
80	3″	G 3	PU	Brass	1.38	VLAM075D
100	4″	G 4	PU	Brass	1.51	VLAM100D







Thread seal

Coupling standard: EN 14420-7 / DIN 2828
Female thread: EN ISO 228-1, BSP
Thread seal: PTFE for stainless steel coupling
PU for brass coupling
Stainless steel: AISI 316 - EN 1.4401

TYPE EC: ADAPTOR WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
20	3/4″	19	Stainless steel	0.13	VLER019D
25	1″	25	Stainless steel	0.20	VLER025D
32	1.1/4″	32	Stainless steel	0.33	VLER032D
40	1.1/2″	38	Stainless steel	0.45	VLER038D
50	2″	50	Stainless steel	0.58	VLER050D
65	2.1/2″	63	Stainless steel	0.96	VLER063D
80	3″	75	Stainless steel	1.16	VLER075D
100	4″	100	Stainless steel	2.26	VLER100D
20	3/4″	19	Brass	0.14	VLEM019D
25	1″	25	Brass	0.21	VLEM025D
32	1.1/4″	32	Brass	0.35	VLEM032D
40	1.1/2″	38	Brass	0.45	VLEM038D
50	2″	50	Brass	0.66	VLEM050D
65	2.1/2″	63	Brass	0.98	VLEM063D
80	3″	75	Brass	1.26	VLEM075D
100	4″	100	Brass	2.69	VLEM100D







Smooth hose shank and collar

Coupling standard: EN 14420-7 / DIN 2828
Shank standard: EN 14420-2 / DIN 2828
Assembly: RK safety clamps EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps (see chapter E)
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE COUPLINGS EN 14420-7 / DIN 2828

TYPE DF: COUPLER FEMALE THREADED WITH THREAD SEAL

ND	Inch	Thread EN ISO 228-1	Thread seal	Material	Coupler seal	Weight/pc Kg	Reference
20	3/4"	G 3/4	PTFE	Stainless steel	NBR	0.18	VLDR019D
25	1"	G 1	PTFE	Stainless steel	NBR	0.29	VLDR025D
32	1.1/4"	G 1.1/4	PTFE	Stainless steel	NBR	0.58	VLDR032D
40	1.1/2"	G 1.1/2	PTFE	Stainless steel	NBR	0.57	VLDR038D
50	2"	G 2	PTFE	Stainless steel	NBR	0.71	VLDR050D
65	2.1/2"	G 2.1/2	PTFE	Stainless steel	NBR	0.96	VLDR063D
80	3"	G 3	PTFE	Stainless steel	NBR	1.28	VLDR075D
100	4"	G 4	PTFE	Stainless steel	NBR	2.01	VLDR100D



Coupling standard: EN 14420-7 / DIN 2828
Female thread: EN ISO 228-1, BSP
Thread seal: PTFE - white for stainless steel coupling
Stainless steel: AISI 316 - EN 1.4401
Brass available upon request



Thread seal

TYPE CC: COUPLER WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Coupler seal	Material	Weight/pc Kg	Reference
20	3/4"	19	NBR	Stainless steel	0.24	VLCR019D
25	1"	25	NBR	Stainless steel	0.35	VLCR025D
32	1.1/4"	32	NBR	Stainless steel	0.59	VLCR032D
40	1.1/2"	38	NBR	Stainless steel	0.68	VLCR038D
50	2"	50	NBR	Stainless steel	0.90	VLCR050D
65	2.1/2"	63	NBR	Stainless steel	1.24	VLCR063D
80	3"	75	NBR	Stainless steel	1.57	VLCR075D
100	4"	100	NBR	Stainless steel	2.59	VLCR100D



20	3/4"	19	NBR	Brass	0.25	VLCM019D
25	1"	25	NBR	Brass	0.38	VLCM025D
32	1.1/4"	32	NBR	Brass	0.63	VLCM032D
40	1.1/2"	38	NBR	Brass	0.69	VLCM038D
50	2"	50	NBR	Brass	0.91	VLCM050D
65	2.1/2"	63	NBR	Brass	1.18	VLCM063D
80	3"	75	NBR	Brass	1.57	VLCM075D
100	4"	100	NBR	Brass	2.71	VLCM100D



Coupling standard: EN 14420-7 / DIN 2828
Shank standard: EN 14420-2 / DIN 2828
Assembly: RK safety clamps EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps (see chapter E)
Stainless steel: AISI 316 - EN 1.4401



Smooth hose shank and collar

CAM & GROOVE SAFETY COUPLINGS

TYPE D: COUPLER FEMALE THREADED WITH SAFETY HANDLES

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
25	1″	G 1″	Stainless steel	0.47	VLDR025S
40	1.1/2″	G 1.1/2″	Stainless steel	0.82	VLDR038S
50	2″	G 2″	Stainless steel	1.07	VLDR050S
80	3″	G 3″	Stainless steel	1.76	VLDR075S
100	4″	G 4″	Stainless steel	2.48	VLDR100S



Coupling standard: Federal Mil A-A-59326
Female thread: EN ISO 228-1, BSP
Version: monoblock safety body
Stainless steel: AISI 316 - EN 1.4401

TYPE B: COUPLER MALE THREADED WITH SAFETY HANDLES

ND	Inch	Thread EN 10226-1	Material	Weight/pc Kg	Reference
25	1″	R 1	Stainless steel	0.45	VLBR025S
40	1.1/2″	R 1.1/2	Stainless steel	0.75	VLBR038S
50	2″	R 2	Stainless steel	0.98	VLBR050S
80	3″	R 3	Stainless steel	1.68	VLBR075S
100	4″	R 4	Stainless steel	2.35	VLBR100S



Coupling standard: Federal Mil A-A-59326 / EN 14420-7 / DIN 2828
Male thread: EN 10226-1 / DIN 2999-1, BSPT
Version: monoblock safety body
Stainless steel: AISI 316 - EN 1.4401

TYPE C: COUPLER WITH SERRATED HOSE SHANK AND SAFETY HANDLES

ND	Inch	For hose mm	Collar	Material	Weight/pc Kg	Reference
25	1″	25	-	Stainless steel	0.51	VLCR025S
40	1.1/2″	38	x	Stainless steel	0.90	VLCR038S
50	2″	50	x	Stainless steel	1.33	VLCR050S
80	3″	75	x	Stainless steel	2.39	VLCR075S
100	4″	100	x	Stainless steel	3.55	VLCR100S



Coupling standard: Federal Mil A-A-59326
Assembly: worm drive clamps, buckling, binding and band clamps
Version: monoblock safety body
Stainless steel: AISI 316 - EN 1.4401
Collar is subjet to change without prior notice

CAM & GROOVE SAFETY COUPLINGS

TYPE CC: COUPLER WITH SMOOTH HOSE SHANK AND SAFETY HANDLES

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
40	1.1/2″	38	Stainless steel	0.79	VLCR038SD
50	2″	50	Stainless steel	1.06	VLCR050SD



Coupling standard: EN 14420-7 / DIN 2828
Shank standard: EN 14420-2 / DIN 2828
Assembly: RK safety clamps EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps (see chapter E)
Version: monoblock safety body
Stainless steel: AISI 316 - EN 1.4401

TYPE DC: FEMALE DUST CAP WITH SAFETY HANDLES

ND	Inch	Material	Weight/pc Kg	Reference
25	1″	Stainless steel	0.43	VLKR025S
40	1.1/2″	Stainless steel	0.70	VLKR038S
50	2″	Stainless steel	0.88	VLKR050S
80	3″	Stainless steel	1.58	VLKR075S



Coupling standard: Federal Mil A-A-59326 / EN 14420-7 / DIN 2828
Standard chain access
Version: monoblock safety body
Stainless steel: AISI 316 - EN 1.4401

SAFETY REBUILDING SET

ND	Inch	Material	Weight/pc Kg	Reference
25	1″	Stainless steel	0.10	VLHRPR2S
32 - 65	1.1/2″ - 2″	Stainless steel	0.13	VLHRPR3S
80 - 100	3″-4″	Stainless steel	0.17	VLHRPR4S



VLHRPR2S
VLHRPR3S



VLHRPR4S



SAFETY HOOK

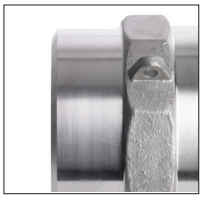
Safety rebuilding set:
Safety handle stainless steel AISI 304 - EN 1.4301
Pull ring stainless steel AISI 304 - EN 1.4301
Safety pin stainless steel AISI 304 - EN 1.4301
Safety hook stainless steel AISI 304 - EN 1.4301

CAM & GROOVE WELDING COUPLINGS

Butt weld vs socket weld

Cam & groove couplings can be welded on hoses, pipes an other welding couplings by using:

- cam & groove couplings with butt weld connection
- cam & groove couplings with socket weld connection

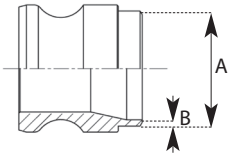


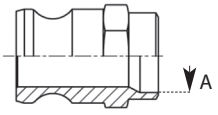
Butt weld connection

Butt welding
Welding ends with a butt weld connection are used for welding the majority of cam & groove couplings. A butt weld connection consists of a 30° welding end. During the welding process, the butt weld cam & groove coupling is connected to a hose, pipe or coupling by the application of heat and pressure.

Welding dimensions
The welding dimensions for cam & groove couplings are based on inch sizes.

ND	INCH	A mm	B mm
15	1/2"	21.34	2.0
20	3/4"	26.67	2.3
25	1"	33.40	2.6
32	1.1/4"	42.16	2.6
40	1.1/2"	48.26	2.6
50	2"	60.33	2.9
65	2.1/2"	76.03	2.9
80	3"	88.90	3.2
100	4"	114.30	3.6
125	5"	139.70	4.0
150	6"	168.28	4.5





TYPE AWB: ADAPTOR WITH BUTT WELD CONNECTION

ND	Inch	Material	Weight/pc Kg	Reference
15	1/2"	Stainless steel	0.11	VLAWBR013
20	3/4"	Stainless steel	0.16	VLAWBR019
25	1"	Stainless steel	0.26	VLAWBR025
32	1.1/4"	Stainless steel	0.41	VLAWBR032
40	1.1/2"	Stainless steel	0.53	VLAWBR038
50	2"	Stainless steel	0.69	VLAWBR050
65	2.1/2"	Stainless steel	0.96	VLAWBR063
80	3"	Stainless steel	1.38	VLAWBR075
100	4"	Stainless steel	2.04	VLAWBR100
125	5"	Stainless steel	3.52	VLAWBR125
150	6"	Stainless steel	5.14	VLAWBR150





30°

Coupling standard: Federal Mil A-A-59326A
Welding end: butt weld end to inch size
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE WELDING COUPLINGS

TYPE DWB: COUPLER WITH BUTT WELD CONNECTION

ND	Inch	Material	Weight/pc Kg	Reference
15	1/2″	Stainless steel	0.12	VLDWBR013
20	3/4″	Stainless steel	0.20	VLDWBR019
25	1″	Stainless steel	0.29	VLDWBR025
32	1.1/4″	Stainless steel	0.50	VLDWBR032
40	1.1/2″	Stainless steel	0.54	VLDWBR038
50	2″	Stainless steel	0.67	VLDWBR050
65	2.1/2″	Stainless steel	1.04	VLDWBR063
80	3″	Stainless steel	1.36	VLDWBR075
100	4″	Stainless steel	1.84	VLDWBR100
125	5″	Stainless steel	3.36	VLDWBR125
150	6″	Stainless steel	3.67	VLDWBR150





30°

Coupling standard: Federal Mil A-A-59326A
Welding end: butt weld end to inch size
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE FLANGE COUPLINGS

TYPE AF: ADAPTOR WITH FIXED FLANGE IN COMPLIANCE WITH EN

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference	
15	1/2"	Stainless steel	EN1092-1 - PN 40	92.0	0.82	VLAFDR013	
20	3/4"	Stainless steel	EN1092-1 - PN 40	95.0	1.22	VLAFDR019	
25	1"	Stainless steel	EN1092-1 - PN 40	105.0	1.35	VLAFDR025	
32	1.1/4"	Stainless steel	EN1092-1 - PN 40	114.0	2.05	VLAFDR032	
40	1.1/2"	Stainless steel	EN1092-1 - PN 40	119.0	2.45	VLAFDR038	
50	2"	Stainless steel	EN1092-1 - PN 16	129.0	3.29	VLAFDR050	**
65	2.1/2"	Stainless steel	EN1092-1 - PN 16	133.0	3.85	VLAFDR063	
80	3"	Stainless steel	EN1092-1 - PN 16	144.0	4.80	VLAFDR075	**
100	4"	Stainless steel	EN1092-1 - PN 16	155.0	7.21	VLAFDR100	**
125	5"	Stainless steel	EN1092-1 - PN 16	160.0	9.82	VLAFDR125	
150	6"	Stainless steel	EN1092-1 - PN 16	162.0	13.86	VLAFDR150	



Coupling standard: Federal Mil A-A-59326
Flange standard: EN 1092 - 1, type 11
Stainless steel: AISI 316 - EN 1.4401
*Total length flange coupling in mm and is subject to change without prior notice
** Monoblock version available upon request

TYPE AF: ADAPTOR WITH FIXED FLANGE IN COMPLIANCE WITH ASTM

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	ASTM - ASA 150 lbs	105.0	0.81	VLAFA1R013
20	3/4"	Stainless steel	ASTM - ASA 150 lbs	113.0	0.96	VLAFA1R019
25	1"	Stainless steel	ASTM - ASA 150 lbs	123.0	1.36	VLAFA1R025
32	1.1/4"	Stainless steel	ASTM - ASA 150 lbs	131.0	1.91	VLAFA1R032
40	1.1/2"	Stainless steel	ASTM - ASA 150 lbs	139.0	2.33	VLAFA1R038
50	2"	Stainless steel	ASTM - ASA 150 lbs	148.0	3.39	VLAFA1R050
65	2.1/2"	Stainless steel	ASTM - ASA 150 lbs	158.0	5.36	VLAFA1R063
80	3"	Stainless steel	ASTM - ASA 150 lbs	164.0	6.58	VLAFA1R075
100	4"	Stainless steel	ASTM - ASA 150 lbs	180.0	9.54	VLAFA1R100
125	5"	Stainless steel	ASTM - ASA 150 lbs	194.0	12.72	VLAFA1R125
150	6"	Stainless steel	ASTM - ASA 150 lbs	196.0	16.14	VLAFA1R150



Coupling standard: Federal Mil A-A-59326
Flange standard: ASTM A 182 and ASME B16.5, RF, ASA 150 lbs
Stainless steel: AISI 316 - EN 1.4401
*Total length flange coupling in mm and is subject to change without prior notice

CAM & GROOVE FLANGE COUPLINGS

TYPE DF: COUPLER WITH FIXED FLANGE IN COMPLIANCE WITH EN

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	EN1092-1 - PN 40	81.0	0.92	VLDFDR013
20	3/4"	Stainless steel	EN1092-1 - PN 40	90.0	1.16	VLDFDR019
25	1"	Stainless steel	EN1092-1 - PN 40	96.0	1.39	VLDFDR025
32	1.1/4"	Stainless steel	EN1092-1 - PN 40	111.0	2.34	VLDFDR032
40	1.1/2"	Stainless steel	EN1092-1 - PN 40	115.0	2.54	VLDFDR038
50	2"	Stainless steel	EN1092-1 - PN 16	122.0	3.49	VLDFDR050
65	2.1/2"	Stainless steel	EN1092-1 - PN 16	125.0	5.44	VLDFDR063
80	3"	Stainless steel	EN1092-1 - PN 16	146.0	6.56	VLDFDR075
100	4"	Stainless steel	EN1092-1 - PN 16	137.0	7.01	VLDFDR100
125	5"	Stainless steel	EN1092-1 - PN 16	142.0	12.56	VLDFDR125
150	6"	Stainless steel	EN1092-1 - PN 16	150.0	14.67	VLDFDR150



Coupling standard: Federal Mil A-A-59326
Flange standard: EN 1092-1, type 11
Stainless steel: AISI 316 - EN 1.4401
*Total length flange coupling in mm and is subject to change without prior notice

TYPE DF: COUPLER WITH FIXED FLANGE IN COMPLIANCE WITH ASTM

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	ASTM - ASA 150 lbs	94.0	0.62	VLDFA1R013
20	3/4"	Stainless steel	ASTM - ASA 150 lbs	108.0	0.90	VLDFA1R019
25	1"	Stainless steel	ASTM - ASA 150 lbs	114.0	1.09	VLDFA1R025
32	1.1/4"	Stainless steel	ASTM - ASA 150 lbs	128.0	1.70	VLDFA1R032
40	1.1/2"	Stainless steel	ASTM - ASA 150 lbs	135.0	1.94	VLDFA1R038
50	2"	Stainless steel	ASTM - ASA 150 lbs	141.0	2.87	VLDFA1R050
65	2.1/2"	Stainless steel	ASTM - ASA 150 lbs	150.0	4.54	VLDFA1R063
80	3"	Stainless steel	ASTM - ASA 150 lbs	152.0	5.16	VLDFA1R075
100	4"	Stainless steel	ASTM - ASA 150 lbs	161.0	7.44	VLDFA1R100
125	5"	Stainless steel	ASTM - ASA 150 lbs	176.0	9.86	VLDFA1R125
150	6"	Stainless steel	ASTM - ASA 150 lbs	184.0	11.77	VLDFA1R150



Coupling standard: Federal Mil A-A-59326
Flange standard: ASTM A 182 and ASME B16.5, RF, ASA 150 lbs
Stainless steel: AISI 316 - EN 1.4401
*Total length flange coupling in mm and is subject to change without prior notice

CAM & GROOVE SPOOL COUPLINGS

TYPE AA: SPOOL ADAPTOR

ND	Inch	Material	Weight/pc Kg	Reference
40	1.1/2″	Aluminium	0.20	VLAAA038
50	2″	Aluminium	0.30	VLAAA050
50-80	2″ - 3″	Aluminium	0.48	VLAAA050075
65	2.1/2″	Aluminium	0.49	VLAAA063
80	3″	Aluminium	0.47	VLAAA075
80	3″ - 4″	Aluminium	0.81	VLAAA075100
100	4″	Aluminium	0.89	VLAAA100
20	3/4″	Stainless steel	0.22	VLAAR019
25	1″	Stainless steel	0.36	VLAAR025
40	1.1/2″	Stainless steel	0.82	VLAAR038
40-50	1.1/2″ - 2″	Stainless steel	0.96	VLAAR038050
50	2″	Stainless steel	2.08	VLAAR050
50-80	2″ - 3″	Stainless steel	1.46	VLAAR050075
80	3″	Stainless steel	2.08	VLAAR075
80-100	3″ - 4″	Stainless steel	2.55	VLAAR075100
100	4″	Stainless steel	3.32	VLAAR100
40	1.1/2″	Brass	0.59	VLAAM038
50	2″	Brass	0.90	VLAAM050
65	2.1/2″	Brass	1.49	VLAAM063
80	3″	Brass	1.45	VLAAM075
100	4″	Brass	2.33	VLAAM100







Coupling standard: Federal Mil A-A-59326A
Version: monoblock
Stainless steel: AISI 316 - EN 1.4401

TYPE DD: SPOOL COUPLER

ND	Inch	Material	Coupler seal	Weight kg	Reference
40	1.1/2″	Stainless steel	NBR	0.96	VLDDR038
50	2″	Stainless steel	NBR	1.29	VLDDR050
80	3″	Stainless steel	NBR	2.17	VLDDR075
100	4″	Stainless steel	NBR	3.02	VLDDR100



Coupling standard: Federal Mil A-A-59326A
Version: monoblock
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE SPOOL COUPLINGS

TYPE DA: SPOOL COUPLER - ADAPTOR

ND Coupler-Adaptor	Inch Coupler-Adaptor	Material	Weight/pc Kg	Reference
50-80	2" - 3"	Aluminium	0.75	VLDAA050075
80-50	3" - 2"	Aluminium	1.14	VLDAA075050
80-100	3" - 4"	Aluminium	1.30	VLDAA075100
100-50	4" - 2"	Aluminium	1.26	VLDAA100050
100-80	4" - 3"	Aluminium	1.51	VLDAA100075
100-150	4" - 6"	Aluminium	1.92	VLDAA100150
50-80	2" - 3"	Stainless steel	1.75	VLDAR050075
80-50	3" - 2"	Stainless steel	1.85	VLDAR075050
100-80	4" - 3"	Stainless steel	4.31	VLDAR100075
150-100	6" - 4"	Stainless steel	5.71	VLDAR150100
50-80	2" - 3"	Brass	1.96	VLDAM050075
80-50	3" - 2"	Brass	2.80	VLDAM075050
100-50	4" - 2"	Brass	3.22	VLDAM100050
100-80	4" - 3"	Brass	4.31	VLDAM100075
150-100	6" - 4"	Brass	8.16	VLDAM150100







Coupling standard: Federal Mil A-A-59326A
Version: monoblock
Stainless steel: AISI 316 - EN 1.4401

CAM & GROOVE REDUCING COUPLINGS

TYPE A: REDUCING ADAPTOR FEMALE THREADED

ND - Inch Adaptor	ND thread	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
20 - 3/4"	15	G 1/2	Polypropylene	0.03	VLAP019013
40 - 1.1/2"	32	G 1.1/4	Polypropylene	0.23	VLAP038032



Coupling standard: Federal Mil A-A-59326A
Female thread: EN ISO 228-1, BSP

TYPE B: REDUCING COUPLER MALE THREADED

ND - Inch Coupler	ND thread	Thread EN 10226-1	Material	Weight/pc Kg	Reference
40 - 1.1/2″	25	R 1	Aluminium	0.31	VLBA038025
50 - 2″	40	R 1.1/2	Aluminium	0.37	VLBA050038
80 - 3″	50	R 2	Aluminium	0.86	VLBA075050
100 - 4″	80	R 3	Aluminium	1.20	VLBA100075
20 - 3/4″	15	R 1/2	Polypropylene	0.07	VLBP019013
40 - 1.1/2″	32	R 1.1/4	Polypropylene	0.23	VLBP038032



Coupling standard: Federal Mil A-A-59326A
Male thread: EN 10226-1, BSPT

TYPE C: REDUCING COUPLER WITH SERRATED HOSE SHANK

ND - Inch Coupler	For hose mm	Material	Weight/pc Kg	Reference
50 - 2″	38	Aluminium	0.44	VLCA050038
80 - 3″	50	Aluminium	0.86	VLCA075050
80 - 3″	100	Aluminium	1.10	VLCA075100
100 - 4″	75	Aluminium	1.20	VLCA100075
20 - 3/4″	13	Polypropylene	0.07	VLCP019013
40 - 1.1/2″	32	Polypropylene	0.24	VLCP038032



Coupling standard: Federal Mil A-A-59326A
Assembly: worm drive clamps, buckling, binding and band clamps

CAM & GROOVE REDUCING COUPLINGS

TYPE D: REDUCING COUPLER FEMALE THREADED

ND - Inch Coupler	ND thread	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
40 - 1.1/2"	25	G 1	Aluminium	0.32	VLDA038025
50 - 2"	40	G 1.1/2	Aluminium	0.39	VLDA050038
80 - 3"	50	G 2	Aluminium	0.72	VLDA075050
100 - 4"	80	G 3	Aluminium	1.11	VLDA100075



Coupling standard: Federal Mil A-A-59326A
Female thread: EN ISO 228-1, BSP

TYPE E: REDUCING ADAPTOR WITH SERRATED HOSE SHANK

ND - Inch Adaptor	For hose mm	Material	Weight/pc Kg	Reference
20 - 3/4"	13	Polypropylene	0.03	VLEP019013
40 - 1.1/2"	32	Polypropylene	0.08	VLEP038032



Coupling standard: Federal Mil A-A-59326A
Assembly: worm drive clamps, buckling, binding and band clamps

TYPE F: REDUCING ADAPTOR MALE THREADED

ND - Inch Adaptor	ND Thread	Thread EN 10226-1	Material	Weight/pc Kg	Reference
20 - 3/4"	15	R 1/2	Polypropylene	0.03	VLFP019013
40 - 1.1/2"	32	R 1.1/4	Polypropylene	0.09	VLFP038032

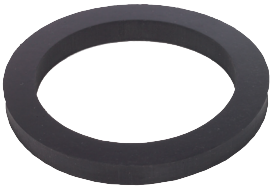


Coupling standard: Federal Mil A-A-59326A
Male thread: EN 10226-1, BSPT

CAM & GROOVE SEALS

SQUARE SEAL - NBR

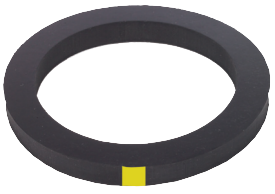
ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.5	17.5	4.0	0.002	VLXB013
20	3/4"	35.0	22.0	5.5	0.005	VLXB019
25	1"	40.0	27.0	6.4	0.007	VLXB025
32	1.1/4"	50.0	35.0	6.4	0.009	VLXB032
40	1.1/2"	56.0	41.0	6.4	0.010	VLXB038
50	2"	67.0	51.0	6.4	0.010	VLXB050
65	2.1/2"	80.0	60.0	6.4	0.020	VLXB063
80	3"	95.0	76.0	6.4	0.020	VLXB075
100	4"	124.0	102.0	6.4	0.030	VLXB100
125	5"	150.5	124.0	6.4	0.050	VLXB125
150	6"	180.0	153.0	6.4	0.060	VLXB150
200	8"	232.5	203.5	7.9	0.070	VLXB200



Material: NBR
Colour: Black
Dimensions in compliance with EN 14420-7 / FED MIL A-A59326, with exception of ND 15, ND 125, ND 150 and ND 200 See chapter F for more information regarding chemical resistance

SQUARE SEAL - EPDM

ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.5	17.5	4.0	0.002	VLXE013
20	3/4"	35.0	22.0	5.5	0.005	VLXE019
25	1"	40.0	27.0	6.4	0.007	VLXE025
32	1.1/4"	50.0	35.0	6.4	0.009	VLXE032
40	1.1/2"	56.0	41.0	6.4	0.010	VLXE038
50	2"	67.0	51.0	6.4	0.010	VLXE050
65	2.1/2"	80.0	60.0	6.4	0.020	VLXE063
80	3"	95.0	76.0	6.4	0.020	VLXE075
100	4"	124.0	102.0	6.4	0.030	VLXE100
125	5"	150.5	124.0	6.4	0.050	VLXE125
150	6"	180.0	153.0	6.4	0.060	VLXE150



Material: EPDM
Colour: Black yellow marked
Dimensions in compliance with EN 14420-7 / FED MIL A-A59326, with exception of ND 15, ND 125, ND 150 and ND 200 See chapter F for more information regarding chemical resistance

CAM & GROOVE SEALS

SQUARE SEAL - FPM

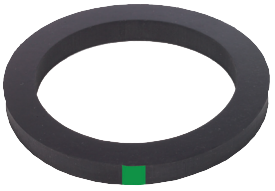
ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.5	17.5	4.0	0.002	VLXV013
20	3/4"	35.0	22.0	5.5	0.005	VLXV019
25	1"	40.0	27.0	6.4	0.007	VLXV025
32	1.1/4"	50.0	35.0	6.4	0.009	VLXV032
40	1.1/2"	56.0	41.0	6.4	0.010	VLXV038
50	2"	67.0	51.0	6.4	0.010	VLXV050
65	2.1/2"	80.0	60.0	6.4	0.020	VLXV063
80	3"	95.0	76.0	6.4	0.020	VLXV075
100	4"	124.0	102.0	6.4	0.030	VLXV100
125	5"	150.5	124.0	6.4	0.050	VLXV125
150	6"	180.0	153.0	6.4	0.060	VLXV150



Material: FPM
Colour: Green
Dimensions in compliance with EN 14420-7 / FED MIL A-A59326A, with exception of ND 15, ND 125, ND 150 and ND 200 See chapter F for more information regarding chemical resistance

SQUARE SEAL - CSM

ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.5	17.5	4.0	0.002	VLXH013
20	3/4"	35.0	22.0	5.5	0.005	VLXH019
25	1"	40.0	27.0	6.4	0.007	VLXH025
32	1.1/4"	50.0	35.0	6.4	0.009	VLXH032
40	1.1/2"	56.0	41.0	6.4	0.010	VLXH038
50	2"	67.0	51.0	6.4	0.010	VLXH050
65	2.1/2"	80.0	60.0	6.4	0.020	VLXH063
80	3"	95.0	76.0	6.4	0.020	VLXH075
100	4"	124.0	102.0	6.4	0.030	VLXH100
125	5"	150.5	124.0	6.4	0.050	VLXH125
150	6"	180.0	153.0	6.4	0.060	VLXH150



Material: CSM
Colour: Black green marked
Dimensions in compliance with EN 14420-7 / FED MIL A-A59326A, with exception of ND 15, ND 125, ND 150 and ND 200 See chapter F for more information regarding chemical resistance

CAM & GROOVE SEALS

CLOSED SEAL - FEP / SILICONE

ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.6	17.5	4.0	0.002	VLXPSG013
20	3/4"	35.0	22.2	5.5	0.004	VLXPSG019
25	1"	39.7	27.0	6.5	0.006	VLXPSG025
32	1.1/4"	49.2	34.5	6.5	0.010	VLXPSG032
40	1.1/2"	55.5	41.3	6.5	0.012	VLXPSG038
50	2"	66.7	50.8	6.5	0.014	VLXPSG050
65	2.1/2"	79.4	60.3	6.5	0.018	VLXPSG063
80	3"	95.5	76.2	6.5	0.022	VLXPSG075



Material: FEP encapsulation - Silicone core
Colour: Translucent outside / red inside
Seal and seal dimensions not specified by EN 14420-7 / FED MIL A-A59326A
FDA conformity certificate on request available
See chapter F for more information regarding chemical resistance

OPEN ENVELOPE SEAL - PTFE / EPDM

ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.2	17.5	4.0	0.002	VLXP013
20	3/4"	35.3	21.2	5.5	0.004	VLXP019
25	1"	39.0	23.0	6.4	0.006	VLXP025
32	1.1/4"	49.5	32.4	6.4	0.009	VLXP032
40	1.1/2"	55.2	35.2	6.4	0.012	VLXP038
50	2"	66.0	47.0	6.4	0.014	VLXP050
63	2.1/2"	79.0	58.5	6.4	0.020	VLXP063
80	3"	94.5	76.3	6.4	0.022	VLXP075
100	4"	124.0	102.0	6.4	0.032	VLXP100



Material: PTFE envelope / EPDM core
Colour: White outside / black inside
Seal and seal dimensions not specified by EN 14420-7 / FED MIL A-A59326A
FDA conformity certificate for PTFE part of the seal on request available
See chapter F for more information regarding chemical resistance

CAM & GROOVE SEALS

OPEN ENVELOPE SEAL - PTFE / FPM

ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.2	17.5	4.0	0.002	VLXP013V
20	3/4"	35.3	21.2	5.5	0.004	VLXP019V
25	1"	39.0	23.0	6.4	0.006	VLXP025V
32	1.1/4"	49.5	32.4	6.4	0.009	VLXP032V
40	1.1/2"	55.2	35.2	6.4	0.012	VLXP038V
50	2"	66.0	47.0	6.4	0.014	VLXP050V
65	2.1/2"	79.0	58.5	6.4	0.020	VLXP063V
80	3"	94.5	76.3	6.4	0.022	VLXP075V
100	4"	124.0	102.0	6.4	0.032	VLXP100V



Material: PTFE envelope / FPM core
Colour: White outside / black grey marked inside
Seal and seal dimensions not specified by EN 14420-7 / FED MIL A-A59326A
FDA conformity certificate for PTFE part of the seal on request available
See chapter F for more information regarding chemical resistance

CLOSED ENVELOPE SEAL - PTFE / FPM

ND	Inch	OD Ø +/- 0.3 mm	ID Ø +/- 0.2 mm	Height +/- 0.2 mm	Weight/pc Kg	Reference
15	1/2"	26.5	13.5	4.5	0.002	VLXPG013
20	3/4"	35.0	18.0	5.7	0.004	VLXPG020
25	1"	41.8	23.5	6.5	0.006	VLXPG025
32	1.1/4"	48.0	30.0	6.5	0.009	VLXPG032
40	1.1/2"	56.0	35.5	6.5	0.010	VLXPG038
50	2"	67.0	46.5	6.5	0.012	VLXPG050
65	2.1/2"	81.5	60.0	6.6	0.016	VLXPG065
80	3"	94.0	76.0	6.6	0.018	VLXPG075
100	4"	122.5	100.5	6.6	0.024	VLXPG100



Material: TFM™ PTFE enveloppe / FPM core; TFM™ is a registered trademark of Dyneon
Colour: Translucent outside / black inside
FDA conformity certificate on request available
Seal and seal dimensions not specified by EN 14420-7 / FED MIL A-A59326A
See chapter F for more information regarding chemical resistance

CAM & GROOVE SEALS

THREAD SEAL - PTFE

ND	Inch	OD Ø mm	ID Ø mm	Height mm	Weight/pc kg	Reference
20	3/4"	26.0	19.0	1.5	0.001	X2RP020
25	1"	33.0	24.0	2.0	0.002	X2RP025
32	1.1/4"	42.0	33.0	2.0	0.002	X2RP032
40	1.1/2"	48.0	39.0	2.0	0.003	X2RP038
50	2"	60.0	49.0	2.0	0.004	X2RP050
65	2.1/2"	76.0	63.0	2.5	0.006	X2RP065
80	3"	88.0	77.0	3.0	0.010	X2RP075
100	4"	114.0	100.0	3.0	0.015	X2RP100



Material: PTFE
Colour: White
Seal dimensions in compliance with EN 14420-5
See chapter F for more information regarding chemical resistance

THREAD SEAL - PU

ND	Inch	OD Ø mm	ID Ø mm	Height mm	Weight/pc kg	Reference
20	3/4"	26.0	19.0	1.5	0.001	X2RV020
25	1"	33.0	24.0	2.0	0.001	X2RV025
32	1.1/4"	42.0	33.0	2.0	0.001	X2RV032
40	1.1/2"	48.0	39.0	2.0	0.001	X2RV038
50	2"	60.0	49.0	2.0	0.002	X2RV050
65	2.1/2"	76.0	63.0	2.5	0.003	X2RV065
80	3"	88.0	77.0	3.0	0.005	X2RV075
100	4"	114.0	100.0	3.0	0.008	X2RV100



Material: PU
Colour: Brown
Seal dimensions in compliance with EN 14420-5
See chapter F for more information regarding chemical resistance

CAM & GROOVE ACCESSORIES

STANDARD HANDLE

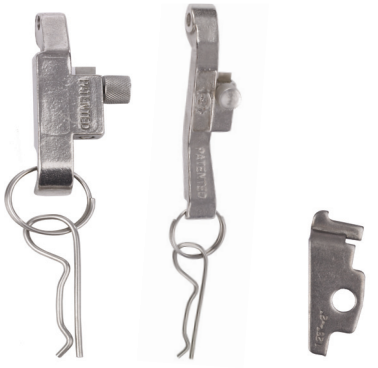
ND	Inch	Material	Weight/pc Kg	Reference
15 - 20	1/2" - 3/4"	Stainless steel	0.02	VLHRPR1
25	1"	Stainless steel	0.03	VLHRPR2
32 - 65	1.1/4" - 2.1/2"	Stainless steel	0.06	VLHRPR3
80 - 125	3" - 5"	Stainless steel	0.11	VLHRPR4
150	6"	Stainless steel	0.25	VLHRPR6
25	1"	Brass	0.04	VLHRPM2
32-65	1.1/4" - 2.1/2"	Brass	0.08	VLHRPM3
80-125	3" - 5"	Brass	0.10	VLHRPM4
150	6"	Brass	0.26	VLHRPM6



Standard handle: Handle stainless steel AISI 304 - EN 1.4301
Pull ring stainless steel AISI 304 - EN 1.4301
Safety pin carbon steel

SAFETY REBUILDING SET

ND	Inch	Material	Weight/pc Kg	Reference
25	1"	Stainless steel	0.10	VLHRPR2SK
32 - 65	1.1/4" - 2"	Stainless steel	0.13	VLHRPR3SK
80 - 100	3" -4"	Stainless steel	0.17	VLHRPR4SK



VLHRPR2S
VLHRPR3S

VLHRPR4S

SAFETY HOOK

Safety rebuilding set: Safety handle stainless steel AISI 304 - EN 1.4301
Pull ring stainless steel AISI 304 - EN 1.4301
Safety pin carbon steel
Safety hook stainless steel AISI 304 - EN 1.4301

PULL RING

ND	Inch	Nr of wires	ID mm	OD mm	Material	Weight/pc kg	Reference
15 - 65	1/2" - 2.1/2"	2	30.0	34.0	Stainless steel	0.005	VLRR1
80 - 150	3" - 6"	3	30.0	34.5	Stainless steel	0.007	VLRR2



Stainless steel AISI 304 - EN 1.4301

CAM & GROOVE ACCESSORIES

PIN

ND	Inch	Material	Weight/pc Kg	Reference
15-20	1/2" - 3/4"	Stainless steel AISI 304	0.002	VLPR1
25	1"	Stainless steel AISI 304	0.004	VLPR2
32-65	1.1/4" - 2.1/2"	Stainless steel AISI 304	0.008	VLPR3
80-100	3" - 4"	Stainless steel AISI 304	0.014	VLPR4



S-HOOK

Material	Weight/pc Kg	Reference
Stainless steel AISI 304	0.002	KETRS
Brass	0.002	KETMS



SAFETY CLIP

Material	Weight/pc Kg	Reference
Galvanized steel	0.018	VLBVS2
Stainless steel AISI 304	0.018	VLBVR2



CHAIN WITH S-HOOK

Length mm	Material	Weight/pc Kg	Reference
200	Stainless steel AISI 304	0.015	KETR200
150	Brass	0.013	KETM150



CAP L-HANDLE 90°

ND	Inch	Material	Weight/pc Kg	Reference
32-65	1.1/4" - 2.1/2"	Stainless steel AISI 304	0.08	VLHRPR3LK
80-100	3" - 4"	Stainless steel AISI 304	0.16	VLHRPR4LK
150	6"	Stainless steel AISI 304	0.27	VLHRPR6LK

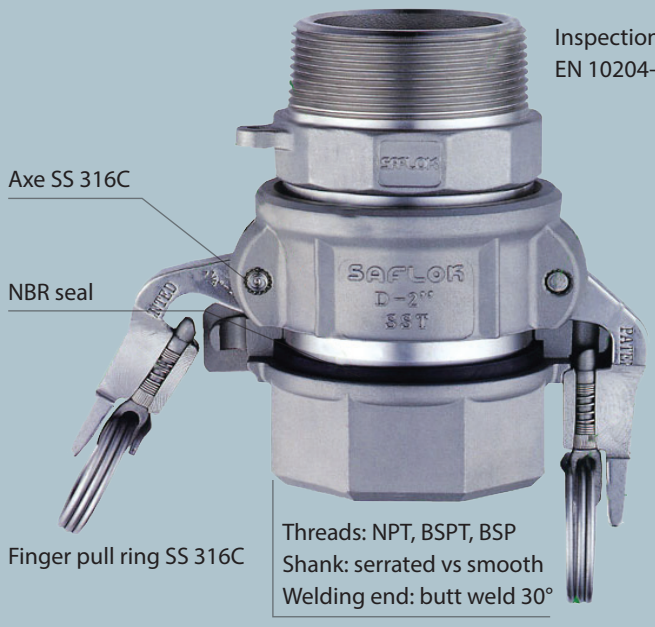


L-handle: Patented handle stainless steel AISI 304 - EN 1.4301
Pull ring: stainless steel AISI 304 - EN 1.4301
Safety clip: carbon steel

STANDARD

The connection system of SAFLOK couplings is based on Fed Mil A-A-59326A or DIN 2828. Cam & groove couplings produced according these standards are interchangeable.

OPERATION



The operating system of SAFLOK cam & groove couplings is similar to those of standard cam & groove. The male adaptor part is pushed into the female coupler part which causes an upward lifting of the handles of the female coupler. To secure the connection both handles are pushed downwards by the operator. To disconnect the finger pull rings are pulled down– and outwards.

APPLICATION

For hose-to-hose or hose-to-pipe manifold connections to transfer liquids or dry bulk products with the exception of liquid gas and steam.

WORKING PRESSURE

25 bar

TEMPERATURE

Temperature depends on chosen seal (standard NBR)

MATERIAL

Stainless steel AISI 316Cast / 1.4408 / CF8M for body and spare parts

ASSEMBLY

Serrated hose shank: band or bolted clamps

Smooth hose shank: safety clamps EN 14420-3 and FLEXOLINE clamps



SAFLOK CAM & GROOVE COUPLINGS

TYPE C: COUPLER WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Coupler seal	Weight kg	Reference
20	3/4″	19	NBR	0,42	VLCR019DSAF
25	1″	25	NBR	0,50	VLCR025DSAF
32	1.1/4″	32	NBR	0,76	VLCR032DSAF
40	1.1/2″	38	NBR	0,80	VLCR038DSAF
50	2″	50	NBR	0,95	VLCR050DSAF
65	2.1/2″	63	NBR	1,16	VLCR063DSAF
80	3″	75	NBR	1,66	VLCR075DSAF
100	4″	100	NBR	2,96	VLCR100DSAF



Swivel version

25	1″	25	NBR	0,50	VLCR025DSAFS
40	1.1/2″	38	NBR	0,92	VLCR038DSAFS
50	2″	50	NBR	1,09	VLCR050DSAFS

TYPE C: COUPLER WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Coupler seal	Weight kg	Reference
20	3/4″	19	NBR	0,35	VLCR019SAF
25	1″	25	NBR	0,55	VLCR025SAF
32	1.1/4″	32	NBR	0,85	VLCR032SAF
40	1.1/2″	38	NBR	0,90	VLCR038SAF
50	2″	50	NBR	1,20	VLCR050SAF
65	2.1/2″	63	NBR	1,30	VLCR063SAF
80	3″	75	NBR	2,15	VLCR075SAF
100	4″	100	NBR	3,55	VLCR100SAF



Coupling standard: Federal Mil A-A-59326
Assembly: worm drive clamps, buckling, binding and band clamps
Stainless steel: AISI 316C / 1.4408

TYPE B: COUPLER MALE THREADED BSPT

ND	Inch	EN 10226-1	Coupler seal	Weight kg	Reference
20	3/4″	R 1/2	NBR	0,39	VLBR019013SAF
20	3/4″	R 3/4	NBR	0,40	VLBR019SAF
25	1″	R 1	NBR	0,50	VLBR025SAF
32	1.1/4″	R 1.1/4	NBR	0,76	VLBR032SAF
40	1.1/2″	R 1.1/2	NBR	0,78	VLBR038SAF
50	2″	R 2	NBR	0,92	VLBR050SAF
65	2.1/2″	R 2.1/2	NBR	1,28	VLBR063SAF
80	3″	R 3	NBR	1,65	VLBR075SAF
100	4″	R 4	NBR	2,57	VLBR100SAF



Coupling standard: Federal Mil-A-A-59326
Male thread: EN 10226-1 / DIN 2999-1, BSPT
Stainless steel: AISI 316C / 1.4408

TYPE B: COUPLER MALE THREADED NPT

ND	Inch	AISI B.1.20.1	Coupler seal	Weight kg	Reference
20	3/4″	NPT 3/4	NBR	0,40	VLBR019NSAF
25	1″	NPT 1	NBR	0,50	VLBR025NSAF
32	1.1/4″	NPT 1.1/4	NBR	0,76	VLBR032NSAF
40	1.1/2″	NPT 1.1/2	NBR	0,78	VLBR038NSAF
50	2″	NPT 2	NBR	0,92	VLBR050NSAF
65	2.1/2″	NPT 2.1/2	NBR	1,28	VLBR063NSAF
80	3″	NPT 3	NBR	1,65	VLBR075NSAF
100	4″	NPT 4	NBR	2,57	VLBR100NSAF



Coupling standard: Federal Mil A-A-59326
Male thread: ANSI B.1.20.1
Stainless steel: AISI 316C / 1.4408

TYPE D: COUPLER EN 14420-7 FEMALE THREADED BSP

ND	Inch	EN ISO 228-1	Coupler seal	Weight kg	Reference
20	3/4″	G 1/2	NBR	0,42	VLDR019013DSAF
20	3/4″	G 3/4	NBR	0,42	VLDR019DSAF
25	1″	G 1	NBR	0,49	VLDR025DSAF
32	1.1/4″	G 1.1/4	NBR	0,76	VLDR032DSAF
40	1.1/2″	G 1.1/2	NBR	0,85	VLDR038DSAF
50	2″	G 2	NBR	0,92	VLDR050DSAF
65	2.1/2″	G 2.1/2	NBR	1,17	VLDR063DSAF
80	3″	G 3	NBR	1,64	VLDR075DSAF
100	4″	G 4	NBR	2,70	VLDR100DSAF



Coupling standard: EN 14420-7
Female thread: EN ISO 228-1 BSP + PTFE thread seal according to EN 14420-5
Stainless steel: AISI 316C / 1.4408

TYPE D: COUPLER FEMALE THREADED NPT

ND	Inch	AISI B.1.20.1	Coupler seal	Weight kg	Reference
25	1″	NPT 1	NBR	0,49	VLDR025NSAF
40	1.1/2″	NPT 1.1/2	NBR	0,85	VLDR038NSAF
50	2″	NPT 2	NBR	0,92	VLDR050NSAF



Coupling standard: Federal Mil A-A-59326
Female thread: ANSI B.1.20.1 NPT
Stainless steel: AISI 316C / 1.4408

TYPE DC: COUPLER DUST CAP

ND	Inch	Coupler seal	Weight kg	Reference
20	3/4″	NBR	0,40	VLKR019SAF
25	1″	NBR	0,45	VLKR025SAF
32	1.1/4″	NBR	0,70	VLKR032SAF
40	1.1/2″	NBR	0,72	VLKR038SAF
50	2″	NBR	0,79	VLKR050SAF
65	2.1/2″	NBR	0,97	VLKR063SAF
80	3″	NBR	1,00	VLKR075SAF
100	4″	NBR	2,20	VLKR100SAF



Coupling standard: Federal Mil A-A-59326
Stainless steel: AISI 316C / 1.4408

SAFLOK CAM & GROOVE COUPLINGS

TYPE DWB: COUPLER BUTT WELD CONNECTION INCH

ND	Inch	INCH SCH 40S	Coupler seal	Weight kg	Reference
20	3/4″	26,67 x 2,11	NBR	0,40	VLDWBR019S40SAF
25	1″	33,40 x 2,77	NBR	0,55	VLDWBR025S40SAF
32	1.1/4″	42,16 x 2,77	NBR	0,75	VLDWBR032S40SAF
40	1.1/2″	48,26 x 2,77	NBR	0,80	VLDWBR038S40SAF
50	2″	60,33 x 2,77	NBR	0,90	VLDWBR050S40SAF
65	2.1/2″	76,03 x 3,05	NBR	1,20	VLDWBR063S40SAF
80	3″	88,90 x 3,05	NBR	1,60	VLDWBR075S40SAF
100	4″	114,30 x 3,05	NBR	2,55	VLDWBR100S40SAF



Coupling standard: Federal Mil A-A-59326
Welding end: butt weld for pipe system according to INCH Sch 40S STD
Stainless steel: AISI 316C / 1.4408

TYPE DF: COUPLER WITH FIXED FLANGE

ND	Inch	Welding neck flange	Coupler seal	Reference
20	3/4″	EN 1092-1 PN 40	NBR	VLDFDR019SAF
25	1″	EN 1092-1 PN 40	NBR	VLDFDR025SAF
32	1.1/4″	EN 1092-1 PN 40	NBR	VLDFDR032SAF
40	1.1/2″	EN 1092-1 PN 40	NBR	VLDFDR038SAF
50	2″	EN 1092-1 PN 16	NBR	VLDFDR050SAF
65	2.1/2″	EN 1092-1 PN 16	NBR	VLDFDR063SAF
80	3″	EN 1092-1 PN 16	NBR	VLDFDR075SAF
100	4″	EN 1092-1 PN 16	NBR	VLDFDR100SAF



Coupling standard: Federal Mil A-A-59326
Fixed flange according to EN 1092-1 type 11
Stainless steel: AISI 316C / 1.4408 coupling / flange ring and stub end AISI 316

TYPE DF: COUPLER WITH SWIVEL FLANGE

ND	Inch	Swivel flange	Coupler seal	Reference
20	3/4″	EN 1092-1 PN 40	NBR	VLDFDR019SAFS
25	1″	EN 1092-1 PN 40	NBR	VLDFDR025SAFS
32	1.1/4″	EN 1092-1 PN 40	NBR	VLDFDR032SAFS
40	1.1/2″	EN 1092-1 PN 40	NBR	VLDFDR038SAFS
50	2″	EN 1092-1 PN 16	NBR	VLDFDR050SAFS
65	2.1/2″	EN 1092-1 PN 16	NBR	VLDFDR063SAFS
80	3″	EN 1092-1 PN 16	NBR	VLDFDR075SAFS
100	4″	EN 1092-1 PN 16	NBR	VLDFDR100SAFS



Coupling standard: Federal Mil A-A-59326
Swivel flange according to EN 1092-1 type 04
Stainless steel: AISI 316C / 1.4408 coupling / flange ring and stub end AISI 316

SAFLOK CAM & GROOVE COUPLINGS

SPAREPARTS: SAFETY HANDLE

ND	Inch	Weight kg	Reference
20	3/4"	0,05	VLHRPR1SAFK
25	1"	0,10	VLHRPR2SAFK
32-65	1.1/4"-2.1/2"	0,10	VLHRPR3SAFK
80-100	3"-4"	0,15	VLHRPR4SAFK

Material handle + pull ring: stainless steel: AISI 316C / 1.4408



SPAREPARTS: PULL RING

ND	Inch	Weight kg	Reference
20-100	3/4"-4"	0,05	VLRRSAF

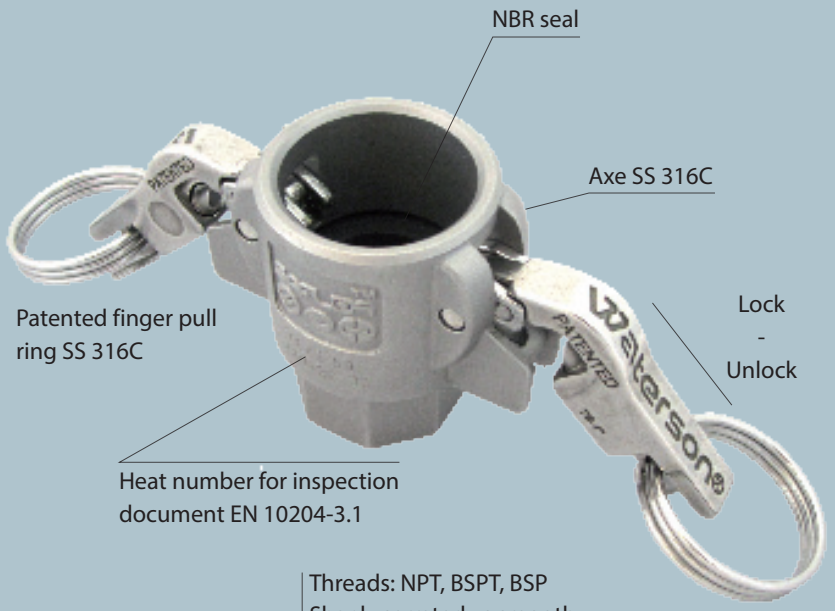
Material handle + pull ring: stainless steel: AISI 316 / 1.4401



BLEED OFF SAFLOK COUPLINGS

STANDARD

The connection system of Saflok couplings is based on Fed Mil A-A-59326A or DIN 2828. Cam & Groove couplings produced according these standards are interchangeable. The bleed off coupler features a patented self-locking cam arm with bleed off function.





OPERATION

The operating system of the Saflok bleed off cam & groove couplings is similar to those of standard cam & groove couplings. To disconnect the finger pull rings are pulled down- and outwards. The coupler has an additional feature which allows pressure bleed off. The bleed off device in each arm automatically engage into the body of the coupler to help prevent accidental disengagement.

APPLICATION

For hose-to-hose or hose-to-pipe manifold connections to transfer liquids or dry bulk products when failure is not an option. Not suitable to transfer liquid gas or steam.

WORKING PRESSURE

25 bar

TEMPERATURE

Depends on choses seal (standard NBR)

MATERIAL

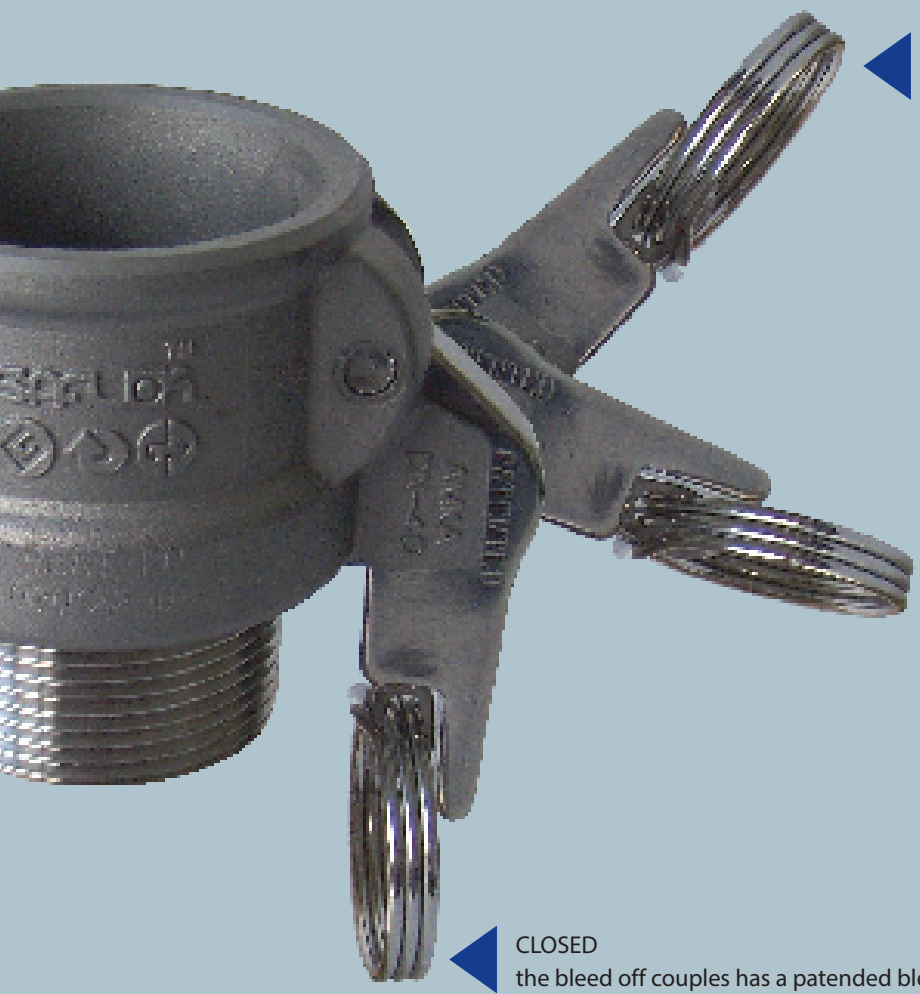
Stainless steel AISI 316C / 1.4408 / CF8M for body and spare parts

ASSEMBLY

Serrated hose shank: band or bolted clamps

Smooth hose shank: safety clamps EN 14420-3 and FLEXOLINE clamps

BLEED OFF SAFLOK COUPLINGS



OPEN
The bleed off coupler stays engaged with the adaptor until the operator has decides to make the final release action of both

BLEED OFF
The bleed off function takes place when both arms are released to the 35°-40° angle.

CLOSED
the bleed off couples has a patended bleed off feature with selflocking arm



PATENTED BLEED OFF SySTEM
The bleed off device in each arm automatically engage into the body of the coupler to help prevent accidential disengagement

BLEED OFF SAFLOK COUPLINGS

TYPE C: COUPLER WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Coupler seal	Weight kg	Reference
20	3/4″	19	NBR	0,42	VLCR019DSAFBO
25	1″	25	NBR	0,50	VLCR025DSAFBO
32	1.1/4″	32	NBR	0,76	VLCR032DSAFBO
40	1.1/2″	38	NBR	0,80	VLCR038DSAFBO
50	2″	50	NBR	0,95	VLCR050DSAFBO
65	2.1/2″	63	NBR	1,16	VLCR063DSAFBO
80	3″	75	NBR	1,66	VLCR075DSAFBO
100	4″	100	NBR	2,96	VLCR100DSAFBO



Swivel version: VLCR...DSAF**S**BO available upon request

TYPE B: COUPLER MALE THREADED BSPT

ND	Inch	EN 10226-1	Coupler seal	Weight kg	Reference
20	3/4″	R 1/2	NBR	0,39	VLBR019013SAFBO
20	3/4″	R 3/4	NBR	0,40	VLBR019SAFBO
25	1″	R 1	NBR	0,50	VLBR025SAFBO
32	1.1/4″	R 1.1/4	NBR	0,76	VLBR032SAFBO
40	1.1/2″	R 1.1/2	NBR	0,78	VLBR038SAFBO
50	2″	R 2	NBR	0,92	VLBR050SAFBO
65	2.1/2″	R 2.1/2	NBR	1,28	VLBR063SAFBO
80	3″	R 3	NBR	1,65	VLBR075SAFBO
100	4″	R 4	NBR	2,57	VLBR100SAFBO



Coupling standard: Federal Mil-A-A-59326A / DIN 2828
Male thread: EN 10226-1 / DIN 2999-1, BSPT
Stainless steel: AISI 316C / 1.4408

TYPE B: COUPLER MALE THREADED NPT

ND	Inch	AISI B.1.20.1	Coupler seal	Weight kg	Reference
20	3/4″	NPT 3/4	NBR	0,40	VLBR019NSAFBO
25	1″	NPT 1	NBR	0,50	VLBR025NSAFBO
32	1.1/4″	NPT 1.1/4	NBR	0,76	VLBR032NSAFBO
40	1.1/2″	NPT 1.1/2	NBR	0,78	VLBR038NSAFBO
50	2″	NPT 2	NBR	0,92	VLBR050NSAFBO
65	2.1/2″	NPT 2.1/2	NBR	1,28	VLBR063NSAFBO
80	3″	NPT 3	NBR	1,65	VLBR075NSAFBO
100	4″	NPT 4	NBR	2,57	VLBR100NSAFBO



Coupling standard: Federal Mil-A-A-59326A
Male thread: ANSI B.1.20.1 NPT
Stainless steel: AISI 316C / 1.4408

BLEED OFF SAFLOK COUPLINGS

TYPE D: COUPLER DIN 2828 FEMALE THREADED BSP

ND	Inch	EN ISO 228-1	Coupler seal	Weight kg	Reference
20	3/4"	G 1/2	NBR	0,42	VLDR019013DSAFBO
20	3/4"	G 3/4	NBR	0,42	VLDR019DSAFBO
25	1"	G 1	NBR	0,49	VLDR025DSAFBO
32	1.1/4"	G 1.1/4	NBR	0,76	VLDR032DSAFBO
40	1.1/2"	G 1.1/2	NBR	0,85	VLDR038DSAFBO
50	2"	G 2	NBR	0,92	VLDR050DSAFBO
65	2.1/2"	G 2.1/2	NBR	1,17	VLDR063DSAFBO
80	3"	G 3	NBR	1,64	VLDR075DSAFBO
100	4"	G 4	NBR	2,70	VLDR100DSAFBO



Coupling standard: DIN 2828
Female thread: EN ISO 228-1 BSP + PTFE thread seal according to EN 14420-5
Stainless steel: AISI 316C / 1.4408

TYPE D: COUPLER FEMALE THREADED NPT

ND	Inch	AISI B.1.20.1	Coupler seal	Weight kg	Reference
20	3/4"	NPT 3/4	NBR	0,42	VLDR019NSAFBO
25	1"	NPT 1	NBR	0,49	VLDR025NSAFBO
32	1.1/4"	NPT 1.1/4	NBR	0,76	VLDR032NSAFBO
40	1.1/2"	NPT 1.1/2	NBR	0,85	VLDR038NSAFBO
50	2"	NPT 2	NBR	0,92	VLDR050NSAFBO
65	2.1/2"	NPT 2.1/2	NBR	1,17	VLDR063NSAFBO
80	3"	NPT 3	NBR	1,64	VLDR075NSAFBO
100	4"	NPT 4	NBR	2,70	VLDR100NSAFBO



Coupling standard: Federal Mil A-A-59326A
Female thread: ANSI B.1.20.1 NPT
Stainless steel: AISI 316C / 1.4408

TYPE DC: COUPLER DUST CAP

ND	Inch	Coupler seal	Weight kg	Reference
20	3/4"	NBR	0,40	VLKR019SAFBO
25	1"	NBR	0,45	VLKR025SAFBO
32	1.1/4"	NBR	0,70	VLKR032SAFBO
40	1.1/2"	NBR	0,72	VLKR038SAFBO
50	2"	NBR	0,79	VLKR050SAFBO
65	2.1/2"	NBR	0,97	VLKR063SAFBO
80	3"	NBR	1,00	VLKR075SAFBO
100	4"	NBR	2,20	VLKR100SAFBO



Coupling standard: Federal Mil A-A-59326A
Stainless steel: AISI 316C / 1.4408

BLEED OFF SAFLOK COUPLINGS

TYPE DWB: COUPLER BUTT WELD CONNECTION SCH40

ND	Inch	DIN 2828	Coupler seal	Weight kg	Reference
20	3/4"	26,67 x 2,3	NBR	0,40	VLDWBR019S40SAFBO
25	1"	33,40 x 2,6	NBR	0,55	VLDWBR025S40SAFBO
32	1.1/4"	42,16 x 2,6	NBR	0,75	VLDWBR032S40SAFBO
40	1.1/2"	48,26 x 2,6	NBR	0,80	VLDWBR038S40SAFBO
50	2"	60,33 x 2,9	NBR	0,90	VLDWBR050S40SAFBO
65	2.1/2"	76,03 x 2,9	NBR	1,20	VLDWBR063S40SAFBO
80	3"	88,90 x 3,2	NBR	1,60	VLDWBR075S40SAFBO
100	4"	114,30 x 3,6	NBR	2,55	VLDWBR100S40SAFBO



Coupling standard: FederalMil A-A-59326A
Welding end: butt weld for pipe system according to INCH Sch 40S STD
Stainless steel: AISI 316C / 1.4408

STANDARD

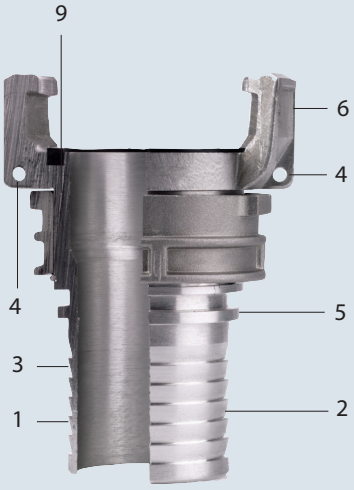
LMC's Guillemin couplings are symmetric couplings designed in compliance with EN 14420-8 / NF E 29-572.

OPERATION

A Guillemin coupling, consist of a seal * on the connection surface and is closed by placing two identical coupling pieces together. This symmetrical coupling is closed by turning the locking ring through a quarter turn, and is sealed by tightening the locking ring behind the lugs. Extra closure can be applied by locking the Guillemin coupling using a Guillemin GY wrench. Guillemin coupling locking rings can be turned through 360° when disconnected.

*Seal available only on Guillemin couplings with locking ring.

FEATURES



1. High quality surface finishing
2. Long hose shank for extra hose assembly rigidity
3. Extra wall thickness for longer life time
4. Reinforcement device with hole for chain attachment
5. Extra large collar
6. LMC-Couplings brand name
7. Heat treated material
8. Material composition as required by the standard
9. Standard black seal with excellent compression set properties

N.B.: Guillemin couplings are not interchangeable with DSP couplings

APPLICATION

For pressure and suction delivery of liquids and solids (such as powders and granulates)
Irrigation: ND 65 – 100
Hydrocarbons: ND 40 - 50 - 65 - 80 - 100
Granulates: ND 80 - 100
Chemicals: ND 20 - 100 (stainless steel)

N.B.: Guillemin couplings must never be used for steam or liquid gas applications

WORKING PRESSURE

16 bar / 230 psi
Test pressure: 30 bar / 435 psi
Minimum burst pressure: 50 bar / 725 psi



TEMPERATURE

-20°C / -4°F up to +65°C / 149°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Aluminium heat treated
  Stainless steel AISI 316 / 1.4401

- Seal
  NBR - black standard for stainless steel and aluminium
  EPDM - white
  FPM - green
  PTFE - white

ASSEMBLY

Worm drive clamps
Band clamps
RK-safety clamps complying with EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps
Swage ferrules for helical hose shank
Butt welding

THREADS

Male thread: EN ISO 228-1, BSP
Female thread: EN ISO 228-1, BSP

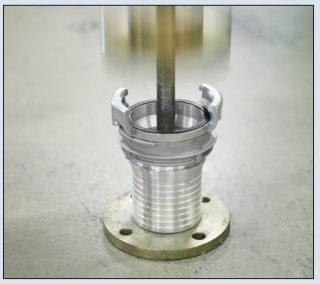
TESTING

Guillemin couplings are often submitted to heavy handling impact when loading and unloading liquids and solids. These couplings are therefore subject to more demanding testing methods than other couplings.
LMC's guillemin couplings undergo a number of tests executed by our Research & Development department. In addition to our own testing methods, we also use the latest gauges specified by the European EN 14420-8 standard. The following product properties are tested:

- Lugs
- Locking ring
- Material test
- Dimensions
- Quality finishing

- Lugs

A fall of a hose, assembled with Guillemin couplings, causes an import impact on the lugs of the coupling. Therefore the mechanical strength of the lugs must be tested. The mechanical strength of the lugs is tested using a conical weight falling around its axis onto the coupling lugs. This 'Chinese head' test is developed to test the internal impact of the lugs. The external impact of the lugs is tested using the 'pan' test, which is the opposite of the 'Chinese head' procedure. LMC guillemin couplings passed both lug tests successfully. A gauge is then used to check the dimensions of the lug spacing, as specified by the EN 14420-8 standard.



- Locking ring

The locking ring is tested by simulating a fall to the ground. The test device consists of a sway arm and a weight. When the arm falls onto the locking ring, the ring deforms as a result of the heavy impact. LMC-Couplings conducts this test to discover whether there are any signs of post-impact deformation or fracturing. In practice, a locking ring cannot deform, since it is mounted onto the body of the Guillemin coupling. However, if the chemical structure of the locking ring is inadequate, then the locking ring will break immediately. The LMC-Couplings locking ring resumed its original shape after testing, and displayed no evidence of fracture.



- Material test

An in-house spectroscope is used to test the materials used in the Guillemin couplings. The spectroscope analyses the precise material substances found in the coupling. We can therefore offer our customers a guarantee that the materials used comply fully with the relevant standard.



- Dimensions

The dimensions of LMC Guillemin couplings comply with EN 14420-8 / NF E 29-572. Guillemin couplings manufactured in compliance with this standard are interchangeable. The Guillemin couplings are randomly checked for correct dimensions using two different measuring methods:

1. Measuring tool
2. Gauges

Our measuring system compares the dimensions of our Guillemin couplings comply with the standard. Although ordinary measuring systems are unable to give precise measurements, our measuring system is able to measure the less accessible parts and shapes of Guillemin couplings. This minimizes inspection times and ensures the highest levels of product quality. The European EN 14420-8 standard requires the use of gauges to guarantee interchangeability of Guillemin couplings. LMC-Couplings uses gauges as a random quality measurement system at several production stages, in our production department, on arrival in our warehouse and before goods are shipped to our customers. Using the gauges required by the European EN 14420-8 standard, LMC-Couplings measures the following four quality-point dimensions of its Guillemin couplings:



A. Seal groove
B. Locking ring
C. Outside diameter
D. Inside diameter

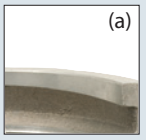
- Quality finishing

  LMC's Guillemin couplings meet the high requirements of the EN 14420-8 / NF E 29-572 standard. A lot of attention was focused on product design. The design of the lugs, the ergonomic locking ring, the special treated surface, length of hose tail, plug with chain, branding ... and many more details guarantee a highly finished product.

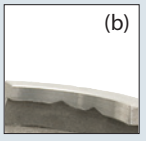
Guillemin couplings vs DSP couplings

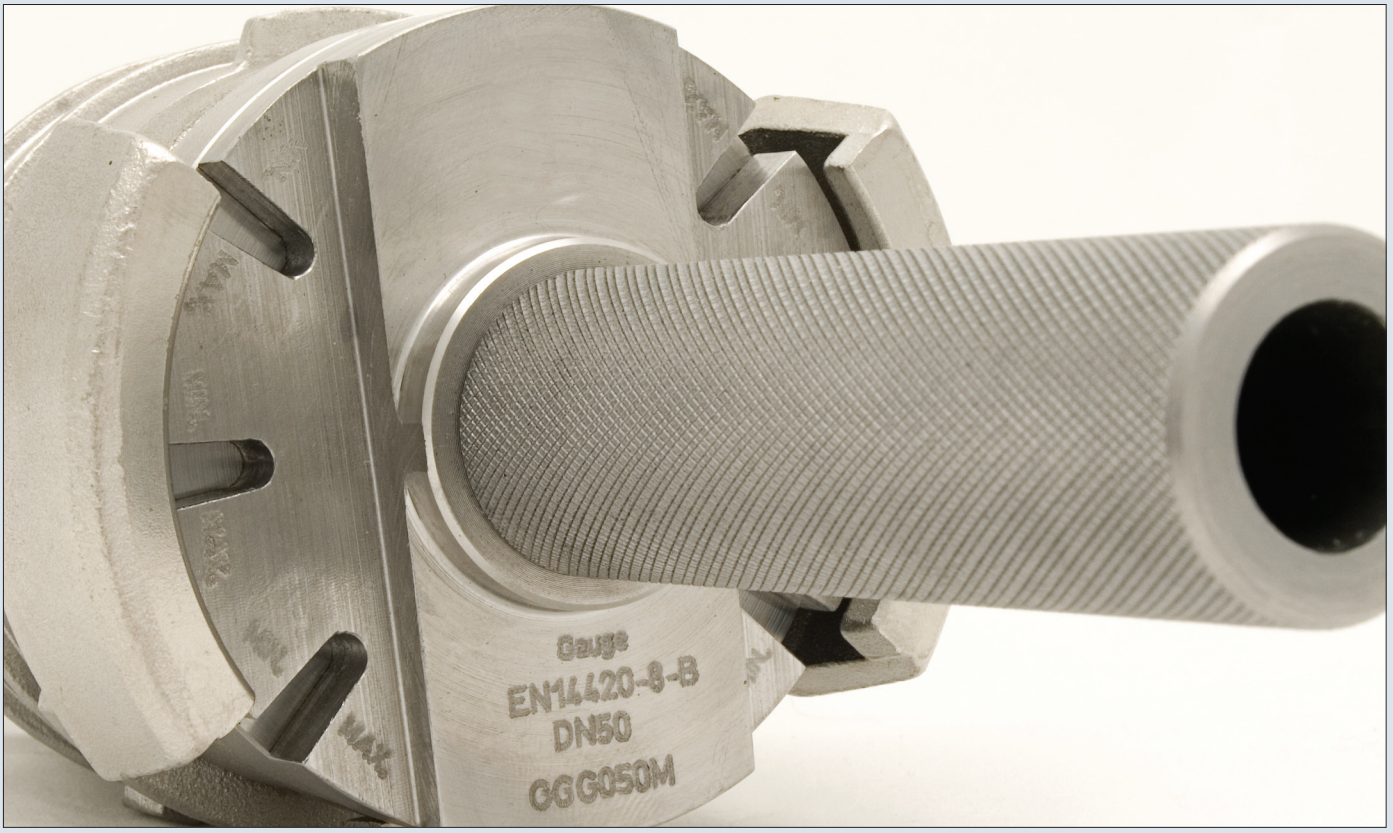
	GUILLEMIN COUPLINGS	DSP COUPLINGS
Standard	EN 14420-8 / NF E 29-572	NF S61-704 / NF S61-705
Main application	Pressure and suction purposes in wide range of industries	Pressure and suction purposes in fire fighting
Lug	Smooth (a)	Triangular (b)
Locking ring	Smooth	Serrated
	Rotation of 360°	Rotation of 45°
Seal	Square seal	Profiled seal











GUILLEMIN COUPLINGS

MALE THREADED WITHOUT LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
40	1.1/2"	G 1.1/2	Aluminium	0.12	LGM038
50	2"	G 2	Aluminium	0.15	LGM050
65	2.1/2"	G 2.1/2	Aluminium	0.23	LGM065
80	3"	G 3	Aluminium	0.46	LGM080
100	4"	G 4	Aluminium	0.64	LGM100
40	1.1/2"	G 1.1/2	Stainless steel	0.30	RGM038
50	2"	G 2	Stainless steel	0.55	RGM050
65	2.1/2"	G 2.1/2	Stainless steel	0.76	RGM065
80	3"	G 3	Stainless steel	1.11	RGM080
100	4"	G 4	Stainless steel	1.55	RGM100



Working pressure: 16 bar / 230 psi
Male thread: EN ISO 228-1, BSP
Stainless steel: AISI 316 / 1.4401

FEMALE THREADED WITHOUT LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
40	1.1/2"	G 1.1/2	Aluminium	0.09	LGF038
50	2"	G 2	Aluminium	0.14	LGF050
65	2.1/2"	G 2.1/2	Aluminium	0.23	LGF065
80	3"	G 3	Aluminium	0.35	LGF080
100	4"	G 4	Aluminium	0.41	LGF100
40	1.1/2"	G 1.1/2	Stainless steel	0.19	RGF038
50	2"	G 2	Stainless steel	0.36	RGF050
65	2.1/2"	G 2.1/2	Stainless steel	0.74	RGF065
80	3"	G 3	Stainless steel	0.95	RGF080
100	4"	G 4	Stainless steel	0.94	RGF100



Working pressure: 16 bar / 230 psi
Female thread: EN ISO 228-1, BSP
Stainless steel: AISI 316 / 1.4401

GUILLEMIN COUPLINGS

MALE THREADED WITH LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
40	1.1/2″	G 1.1/2	Aluminium	0.16	LGMG038
50	2″	G 2	Aluminium	0.30	LGMG050
65	2.1/2″	G 2.1/2	Aluminium	0.47	LGMG065
80	3″	G 3	Aluminium	0.61	LGMG080
100	4″	G 4	Aluminium	0.87	LGMG100
40	1.1/2″	G 1.1/2	Stainless steel	0.43	RGMG038
50	2″	G 2	Stainless steel	0.85	RGMG050
65	2.1/2″	G 2.1/2	Stainless steel	0.98	RGMG065
80	3″	G 3	Stainless steel	1.11	RGMG080
100	4″	G 4	Stainless steel	1.59	RGMG100





Working pressure: 16 bar / 230 psi
Seal: NBR - black
Male thread: EN ISO 228-1, BSP
Stainless steel: AISI 316 / 1.4401

FEMALE THREADED WITH LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
40	1.1/2″	G 1.1/2	Aluminium	0.23	LGFG038
50	2″	G 2	Aluminium	0.40	LGFG050
65	2.1/2″	G 2.1/2	Aluminium	0.47	LGFG065
80	3″	G 3	Aluminium	0.60	LGFG080
100	4″	G 4	Aluminium	1.17	LGFG100
40	1.1/2″	G 1 .1/2	Stainless steel	0.60	RGFG038
50	2″	G 2	Stainless steel	0.78	RGFG050
65	2.1/2″	G 2.1/2	Stainless steel	1.24	RGFG065
80	3″	G 3	Stainless steel	1.65	RGFG080
100	4″	G 4	Stainless steel	3.07	RGFG100





Working pressure: 16 bar / 230 psi
Seal: NBR - black
Female thread: EN ISO 228-1, BSP
Stainless steel: AISI 316 / 1.4401

GUILLEMIN COUPLINGS

SERRATED HOSE SHANK WITH LOCKING RING

ND	Inch	For hose mm	Collar	Material	Weight/pc Kg	Reference
40	1.1/2″	38	-	Aluminium	0.17	LGSG038
40	1.1/2″	40	-	Aluminium	0.20	LGSG040
40	1.1/2″	45	-	Aluminium	0.25	LGSG045
50	2″	50	x	Aluminium	0.33	LGSG050
50	2″	55	-	Aluminium	0.38	LGSG055
65	2.1/2″	65	x	Aluminium	0.41	LGSG065
65	2.1/2″	70	-	Aluminium	0.60	LGSG070
80	3″	75	x	Aluminium	0.77	LGSG075
80	3″	80	-	Aluminium	0.79	LGSG080
80	3″	90	-	Aluminium	0.85	LGSG090
100	4″	100	x	Aluminium	1.33	LGSG100
100	4″	105	-	Aluminium	1.03	LGSG105
100	4″	110	-	Aluminium	1.26	LGSG110



40	1.1/2″	40	x	Stainless steel	0.52	RGSG038
50	2″	50	x	Stainless steel	0.93	RGSG050
50	2″	55	-	Stainless steel	0.87	RGSG055
65	2.1/2″	65	x	Stainless steel	1.05	RGSG065
80	3″	75	x	Stainless steel	2.27	RGSG075
80	3″	80	x	Stainless steel	2.28	RGSG080
80	3″	90	-	Stainless steel	2.04	RGSG090
100	4″	100	x	Stainless steel	3.31	RGSG100



Working pressure: 16 bar / 230 psi
Seal: NBR - black
Stainless steel: AISI 316 / 1.4401
Assembly: band clamps and ferrules

SERRATED HOSE SHANK WITH LOCKING RING WITHOUT LUGS

ND	Inch	For hose mm	Collar	Material	Weight/pc Kg	Reference
40	1.1/2″	38	-	Aluminium	0.12	LGSG038SO
40	1.1/2″	40	-	Aluminium	0.16	LGSG040SO
40	1.1/2″	45	-	Aluminium	0.20	LGSG045SO
50	2″	50	x	Aluminium	0.21	LGSG050SO
50	2″	55	-	Aluminium	0.28	LGSG055SO
65	2.1/2″	65	x	Aluminium	0.35	LGSG065SO
65	2.1/2″	70	-	Aluminium	0.45	LGSG070SO
80	3″	75	x	Aluminium	0.65	LGSG075SO
80	3″	80	-	Aluminium	0.69	LGSG080SO
80	3″	90	-	Aluminium	0.71	LGSG090SO
100	4″	100	x	Aluminium	1.21	LGSG100SO
100	4″	105	-	Aluminium	0.95	LGSG105SO
100	4″	110	-	Aluminium	1.15	LGSG110SO



Working pressure: 8 bar / 115 psi
Seal: NBR - black
Assembly: band clamps and ferrules
Guillemin couplings without lugs are recommended to prevent torsion of the hose when connecting the coupling on a fixed Guillemin coupling.
Also available in male, female and butt-weld version.

GUILLEMIN COUPLINGS

BUTT WELD VERSION WITHOUT LOCKING RING

ND	Inch	Welding end mm	Material	Weight/pc Kg	Reference
40	1.1/2″	48.26 x 3.68	Stainless steel	0.33	RGBW038
50	2″	60.33 x 3.91	Stainless steel	0.86	RGBW050
65	2.1/2″	73.03 x 5.16	Stainless steel	1.01	RGBW065
80	3″	88.90 x 5.49	Stainless steel	1.18	RGBW080
100	4″	114.30 x 6.02	Stainless steel	1.57	RGBW100



Working pressure: 16 bar / 230 psi
Welding end: butt weld end to inch and schedule 40 pipe size
Stainless steel: AISI 316 / 1.4401

BUTT WELD VERSION WITH LOCKING RING

ND	Inch	Welding end mm	Material	Weight/pc Kg	Reference
40	1.1/2″	48.26 x 3.68	Stainless steel	0.44	RGBWG038
50	2″	60.33 x 3.91	Stainless steel	091	RGBWG050
65	2.1/2″	73.03 x 5.16	Stainless steel	1.08	RGBWG065
80	3″	88.90 x 5.49	Stainless steel	1.83	RGBWG080
100	4″	114.30 x 6.02	Stainless steel	2.10	RGBWG100



Working pressure: 16 bar / 230 psi
Welding end: butt weld end to inch and schedule 40 pipe size
Seal: NBR - black
Stainless steel: AISI 316 / 1.4401

PLUG WITH HANDLE

ND	Inch	Material	Weight/pc Kg	Reference
40	1.1/2"	Aluminium	0.15	LGP038
50	2"	Aluminium	0.20	LGP050
65	2.1/2″	Aluminium	0.22	LGP065
80	3"	Aluminium	0.34	LGP080



Working pressure: 16 bar / 230 psi
Seal: NBR - black
Chain included

GUILLEMIN COUPLINGS

PLUG WITHOUT LOCKING RING

ND	Inch	Material	Weight/pc Kg	Reference
40	1.1/2″	Stainless steel	0.11	RGP038
50	2″	Stainless steel	0.23	RGP050
65	2.1/2″	Stainless steel	0.32	RGP065
80	3″	Stainless steel	0.43	RGP080
100	4″	Stainless steel	0.81	RGP100
50	2"	Polypropylene	0.04	GPL050





Working pressure: 16 bar / 230 psi
Chain and standard NBR seal included
Stainless steel: AISI 316 / 1.4401

PLUG WITH LOCKING RING

ND	Inch	Material	Weight/pc Kg	Reference
40	1.1/2"	Aluminium	0.15	LGPG038
50	2″	Aluminium	0.25	LGPG050
65	2.1/2"	Aluminium	0.31	LGPG065
80	3″	Aluminium	0.48	LGPG080
100	4″	Aluminium	0.75	LGPG100
40	1.1/2″	Stainless steel	0.29	RGPG038
50	2″	Stainless steel	0.60	RGPG050
65	2.1/2″	Stainless steel	0.76	RGPG065
80	3″	Stainless steel	1.26	RGPG080
100	4″	Stainless steel	1.68	RGPG100





Working pressure: 16 bar / 230 psi
Seal: NBR - black
Chain included
Stainless steel: AISI 316 / 1.4401

GUILLEMIN COUPLINGS

REDUCING COUPLING GUILLEMIN - GUILLEMIN

ND	Inch	Material	Weight/pc Kg	Reference
40 - 50	1.1/2" - 2"	Aluminium	0.60	LGVG040050
40 - 65	1.1/2" - 2.1/2"	Aluminium	0.55	LGVG040065
40 - 80	1.1/2" - 3"	Aluminium	0.98	LGVG040080
50 - 65	2" - 2.1/2"	Aluminium	0.65	LGVG050065
50 - 80	2" - 3"	Aluminium	1.14	LGVG050080
50 - 100	2" - 4"	Aluminium	1.07	LGVG050100
65 - 80	2.1/2" - 3"	Aluminium	1.22	LGVG065080
65 - 100	2.1/2" - 4"	Aluminium	1.72	LGVG065100
80 - 100	3" - 4"	Aluminium	1.87	LGVG080100
40 - 50	1.1/2" - 2"	Stainless steel	1.50	RGVG038050
40 - 65	1.1/2" - 2.1/2"	Stainless steel	1.66	RGVG038065
50 - 65	2" - 2.1/2"	Stainless steel	2.13	RGVG050065
50 - 80	2" - 3"	Stainless steel	2.05	RGVG050080
50 - 100	2" - 4"	Stainless steel	4.01	RGVG050100
65 - 80	2.1/2" - 3"	Stainless steel	3.10	RGVG065080
65 - 100	2.1/2" - 4"	Stainless steel	3.50	RGVG065100
80 - 100	3" - 4"	Stainless steel	4.91	RGVG080100





REDUCING COUPLING GUILLEMIN - DSP

ND Guillemin - DSP	Inch Guillemin - DSP	Material	Weight/pc Kg	Reference
40 - DSP 40	1.1/2" - 1.1/2"	Aluminium	0.43	LGVD038040
40 - DSP 65	1.1/2" - 2.1/2"	Aluminium	0.76	LGVD038070
50 - DSP 65	2" - 2.1/2"	Aluminium	1.09	LGVD050070
50 - AR 100	2" - 4"	Aluminium	1.75	LGVD050100
65 - DSP 65	2.1/2" - 2.1/2"	Aluminium	1.01	LGVD065070
65 - AR 100	2.1/2" - 4"	Aluminium	1.75	LGVD065100
80 - AR 100	3" - 4"	Aluminium	1.85	LGVD080100
100 - AR 100	4" - 4"	Aluminium	2.08	LGVD100100



REDUCING COUPLING GUILLEMIN - STORZ

ND Guillemin - Storz	Inch Guillemin - Storz	Material	Weight/pc Kg	Reference
40 - 52C LD 66	1.1/2" - 2"	Aluminium	0.57	LGVS038066
40 - 75B LD 89	1.1/2" - 3"	Aluminium	0.63	LGVS038089
50 - 52C LD 66	2" - 2"	Aluminium	0.66	LGVS050066
50 - 75B LD 89	2" - 3"	Aluminium	0.95	LGVS050089
50 - 110A LD 133	2" - 4"	Aluminium	1.71	LGVS050133
65 - 52C LD 66	2.1/2" - 2"	Aluminium	1.11	LGVS065066
65 - 75B LD 89	2.1/2" - 3"	Aluminium	1.12	LGVS065089
65 - 110A LD 133	2.1/2" - 4"	Aluminium	1.57	LGVS065133
80 - 52C LD 66	3" - 2"	Aluminium	1.1	LGVS080066
80 - 75B LD 89	3" - 3"	Aluminium	1.23	LGVS080089
80 - 110A LD 133	3" - 4"	Aluminium	1.81	LGVS080133
100 - 52C LD 66	4" - 2"	Aluminium	1.63	LGVS100066
100 - 75B LD 89	4" - 3"	Aluminium	1.58	LGVS100089
100 - 110A LD 133	4" - 4"	Aluminium	2.04	LGVS100133



Working pressure: 16 bar / 230 psi
Stainless steel: AISI 316 / 1.4401
Guillemin and DSP couplings with locking ring
Guillemin square seal NBR; DSP coupling profiled seal NBR; Storz coupling profiled seal NBR
LD: Lug distance

GUILLEMIN COUPLINGS

HELICAL HOSE SHANK FOR COMPOSITE HOSE WITH LOCKING RING

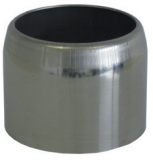
ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
50	2″	50	Aluminium	0.42	CLGSG050
65	2.1/2″	65	Aluminium	0.56	CLGSG065
80	3″	80	Aluminium	0.83	CLGSG080
100	4″	100	Aluminium	1.42	CLGSG100
50	2″	50	Stainless steel	1.14	CRGSG050
80	3″	80	Stainless steel	2.33	CRGSG080
100	4″	100	Stainless steel	3.55	CRGSG100



Working pressure: 16 bar / 230 psi
Seal: NBR - black
Shank: composite hose shank in metric size
Stainless steel: AISI 316 / 1.4401
Assembly: swage ferrules with crimping seal

SWAGE FERRULE FOR HELICAL HOSE SHANK AND COMPOSITE HOSE

ND	Inch	Material	Ø ID mm +/- coupling side	Ø ID mm +/- hose side	Length mm +/-	Weight/pc kg	Reference
50	2″	Stainless steel	53.6	65.7	67.0	0.15	CHR050
65	2.1/2″	Stainless steel	68.0	83.0	73.0	0.24	CHR065
80	3″	Stainless steel	84.6	98.0	76.2	0.24	CHR080
100	4″	Stainless steel	107.5	124.0	107.0	0.63	CHR100



Stainless steel AISI 304 - 1.4301
Steel swage ferrules on request available

CRIMPING SEAL FOR HELICAL SHANK COUPLING

ND	Inch	Material	Colour	Ø OD +/- 2 mm	Ø ID +/- 1mm	Weight/pc kg	Reference
50	2″	NBR	Black	65.5	50	0.02	CXN050
65	2.1/2″	NBR	Black	84	65	0.03	CXN065
80	3″	NBR	Black	100	80	0.04	CXN080
100	4″	NBR	Black	112.5	100	0.07	CXN100



EPDM / FPM available on request

GUILLEMIN COUPLINGS

MULTI WRENCH - GY®

ND	Inch	Material	Weight/pc Kg	Reference
40 - 100	1.1/2" - 4"	Blue coated steel	0.54	GY



WRENCH

ND	Inch	Material	Weight/pc Kg	Reference
40	1.1/2"	Red coated steel	0.54	GY040
80	3"	Red coated steel	0.88	GY080



CHAIN WITH S-HOOK

Material	Length	Weight/pc Kg	Reference
Stainless steel	200 mm	0.015	KETR200



Stainless steel AISI 304 - 1.4301

SEALS

SQUARE SEAL FOR COUPLING PART - NBR

ND	Inch	Material	Colour	Ø OD mm	Ø ID mm	Height mm	Weight/pc Kg	Reference
25	1"	NBR	Black	34.3	27.3	4.0	0.001	GXB025
32	1.1/4"	NBR	Black	38.0	32.0	4.5	0.002	GXB032
40	1.1/2"	NBR	Black	51.0	43.0	5.0	0.004	GXB038
50	2"	NBR	Black	64.0	54.0	5.0	0.007	GXB050
65	2.1/2"	NBR	Black	79.0	69.0	6.0	0.010	GXB065
80	3"	NBR	Black	96.0	85.0	6.0	0.015	GXB080
100	4"	NBR	Black	117.5	103.5	7.0	0.020	GXB100



SQUARE SEAL FOR COUPLING PART - EPDM

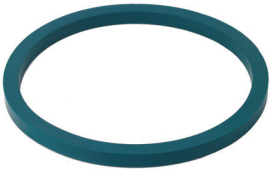
ND	Inch	Material	Colour	Ø OD mm	Ø ID mm	Height mm	Weight/pc Kg	Reference
25	1"	EPDM	White	34.3	27.3	4.0	0.001	GXE025
40	1.1/2"	EPDM	White	51.0	43.0	5.0	0.005	GXE038
50	2"	EPDM	White	64.0	54.0	5.0	0.007	GXE050
65	2.1/2"	EPDM	White	79.0	69.0	6.0	0.010	GXE065
80	3"	EPDM	White	96.0	85.0	6.0	0.015	GXE080
100	4"	EPDM	White	117.5	103.5	7.0	0.020	GXE100



GUILLEMIN COUPLINGS

SQUARE SEAL FOR COUPLING PART - FPM

ND	Inch	Material	Colour	Ø OD mm	Ø ID mm	Height mm	Weight/pc Kg	Reference
25	1″	FPM	Green	34.3	27.3	4.0	0.001	GXV025
40	1.1/2″	FPM	Green	51.0	43.0	5.0	0.006	GXV038
50	2″	FPM	Green	64.0	54.0	5.0	0.009	GXV050
65	2.1/2″	FPM	Green	79.0	69.0	6.0	0.012	GXV065
80	3″	FPM	Green	96.0	85.0	6.0	0.018	GXV080
100	4″	FPM	Green	117.5	103.5	7.0	0.033	GXV100



SQUARE SEAL FOR COUPLING PART - PTFE

ND	Inch	Material	Colour	Ø OD mm	Ø ID mm	Height mm	Weight/pc Kg	Reference
25	1"	PTFE	White	34.3	27.3	4.0	0.005	GXP025
40	1.1/2″	PTFE	White	51.0	43.0	5.0	0.006	GXP038
50	2″	PTFE	White	64.0	54.0	5.0	0.010	GXP050
65	2.1/2″	PTFE	White	79.0	69.0	6.0	0.015	GXP065
80	3″	PTFE	White	96.0	85.0	6.0	0.020	GXP080
100	4″	PTFE	White	117.5	103.5	7.0	0.036	GXP100



FLAT SEAL FOR PLUG - NBR

ND	Inch	Material	Colour	Ø OD mm	Ø ID mm	Height mm	Weight/pc Kg	Reference
50	2″	NBR	Black	67.9	37.5	2.8	0.01	GXB050GP
65	2.1/2″	NBR	Black	83.5	48.0	2.8	0.02	GXB065GP
80	3″	NBR	Black	100.5	62.0	3.5	0.03	GXB080GP



NBR white on request available

STANDARD

LMC's DSP couplings are manufactured in compliance with NF S61-704 for the dimensions ND 40 and ND 65. The ND 100 dimension is manufactured in compliance with NF S61-705.

OPERATION

A DSP coupling is a self-sealing* symmetrical coupling which is secured by interconnecting two DSP couplings. The half coupling is closed by turning the locking ring beneath the triangular section of the opposed DSP coupling. Extra closure can be applied by locking the connection with LMC-Couplings patented multi wrench. The DSP coupling locking system is similar to that of the Guillemin coupling. There are however differences to the preformed serration on the locking ring and the design of the lugs. The locking ring of DSP couplings can be turned up to 45°.

*Seal available only on DSP couplings with locking rings

The DSP coupling range includes two types of coupling:

- DSP couplings in ND 40 and ND 65 are used for pressure and delivery applications
- AR couplings in ND 100 are used for suction and delivery applications

Lug positions:

Please refer to the following assembly instructions where DSP couplings are to be fitted to a fixed installation.



Figure 1: The lugs in this illustration are referred to as "top and bottom lugs". "Top and bottom lugs" are normally used for outlets and in delivery operations.



Figure 2: The lugs in this illustration are referred to as "ear lugs". "Ear lugs" are used for inlets and in suction operations.

N.B.: DSP couplings are not interchangeable with Guillemin couplings.

FEATURES



1. High-quality surface finishing
2. Extra-thick wall for longer life
3. Hole in each lug for chain attachment
4. LMC-Couplings brand name
5. Heat-treated material
6. Material composition as required by the standard



APPLICATION

Fire-fighting: ND 40 - 65 - 100
Pressure delivery (DSP): ND 40 - 65
Suction delivery (AR): ND 100

WORKING PRESSURE

16 bar / 230 psi

TEMPERATURE

-20°C / -4°F up to 65°C / 149°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Heat-treated aluminium

- Seal
  NBR - black

ASSEMBLY

Wire binding
Low pressure ferrules
Band clamps
Worm drive clamps

THREADS

Male thread: EN ISO 228-1, BSP
Female thread: EN ISO 228-1, BSP

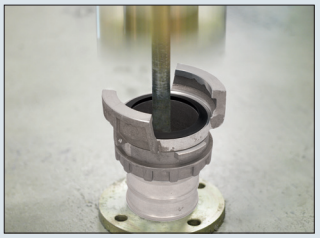
TESTING

The main application of DSP couplings is fire fighting. This application causes significant impacts on the coupling during handling.
DSP couplings are therefore subject to more demanding testing methods than other couplings.
Like LMC's Guillemin couplings the DSP couplings undergo a number of tests executed by our Research & Development department.
The following product properties are tested:

- Lugs
- Locking ring
- Material
- Dimensions
- Quality of finish

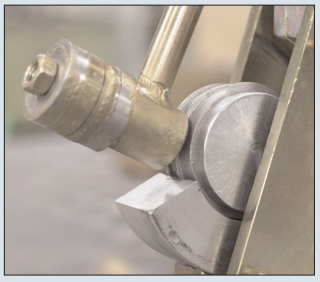
- Lugs

A fall of a hose, assembled with DSP couplings, causes an import impact on the lugs of the coupling. Therefore the mechanical strength of the lugs needs to be tested.
The mechanical strength of the lugs is tested using a conical weight falling around its axis onto the coupling lugs. This 'Chinese head' test is developed to test the internal impact of the lugs. The external impact strength of the lugs is tested using the 'pan' test, which is the opposite of the 'Chinese head' procedure. LMC's DSP couplings passed both lug tests successfully.



- Locking ring

The locking ring is tested by simulating a fall to the ground. The testing device consists of a sway arm and a weight. When the arm hits the locking ring, the ring deforms as a result of the heavy impact. This test enables us to discover whether there are any signs of post-impact deformation or fracturing. In practice, a locking ring can't deform, because it is mounted onto the body of the DSP coupling. However, if the chemical structure of the locking ring is inadequate, the locking ring will break immediately. The LMC-Couplings locking ring maintained its original shape after testing, and showed no evidence of fracture.



- Material

An in-house spectroscope is used to test the material composition of the heat treated aluminium used for DSP couplings. This test guarantees our customers DSP couplings developed in full compliance with the relevant standard.



- Dimensions

The dimensions of LMC DSP couplings comply with NF S61-704 / NF S61-705. All DSP couplings manufactured in compliance with this standard are interchangeable. All the DSP couplings are randomly checked for correct dimensions using LMC's measuring system.
Our measuring system checks if the dimensions of our DSP couplings comply with the standard. Although ordinary measuring systems are unable to give precise measurements, our measuring system is able to measure the less accessible parts and shapes of DSP couplings. This method minimizes inspection times and ensures the highest levels of product quality.



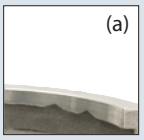
- Quality of finish

LMC's DSP couplings not only meet the high requirements of the standard NF S61-704 / NF S61-705, a lot of attention was focused on product design. The design of the lugs, the ergonomic locking ring, the special treated surface, plug with chain, branding ... and many more details guarantee a highly finished product.

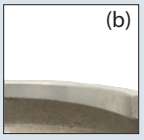
DSP couplings vs Guillemin couplings

	DSP COUPLINGS	GUILLEMIN COUPLINGS
Standard	NF S61-704 / NF S61-705	EN 14420-8 / NF E 29-572
Main application	Pressure and suction purposes in fire fighting	Pressure and suction purposes in wide range of industries
Lug	Triangular (a)	Smooth (b)
Locking ring	Serrated Rotates up to 45°	Smooth Rotates up to 360°
Seal	Profiled seal	Square-section seal









N.B.: LMC's DSP couplings are not interchangeable with LMC's Guillemin couplings.



Multi wrench GY®

DSP COUPLINGS

MALE THREADED WITHOUT LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
DSP 40	1.1/2″	G 1.1/2	Aluminium	0.11	LDM040
DSP 40	1.1/2″	G 2	Aluminium	0.19	LDM0402
DSP 65	2.1/2″	G 2	Aluminium	0.36	LDM0702
DSP 65	2.1/2″	G 2.1/2	Aluminium	0.25	LDM070
DSP 65	2.1/2″	G 3	Aluminium	0.47	LDM0703
AR 100	4″	G 4	Aluminium	0.55	LDM100



Working pressure: 16 bar / 230 psi
Male thread: EN ISO 228-1, BSP
Profiled seal: NBR black

FEMALE THREADED WITHOUT LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
DSP 40	1.1/2″	G 1.1/2	Aluminium	0.09	LDF040
DSP 40	1.1/2″	G 2	Aluminium	0.18	LDF0402
DSP 65	2.1/2″	G 2	Aluminium	0.30	LDF0702
DSP 65	2.1/2″	G 2.1/2	Aluminium	0.17	LDF070
DSP 65	2.1/2″	G 3	Aluminium	0.41	LDF0703
AR 100	4″	G 4	Aluminium	0.54	LDF100



Working pressure: 16 bar / 230 psi
Female thread: EN ISO 228-1, BSP
Profiled seal: NBR black

MALE THREADED WITH LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
DSP 40	1.1/2″	G 1.1/2	Aluminium	0.17	LDMG040
DSP 40	1.1/2″	G 2	Aluminium	0.21	LDMG0402
DSP 65	2.1/2″	G 2	Aluminium	0.46	LDMG0702
DSP 65	2.1/2″	G 2.1/2	Aluminium	0.36	LDMG070
DSP 65	2.1/2″	G 3	Aluminium	0.61	LDMG0703
AR 100	4″	G 4	Aluminium	0.90	LDMG100



Working pressure: 16 bar / 230 psi
Male thread: EN ISO 228-1, BSP
Profiled seal: NBR black

DSP COUPLINGS

FEMALE THREADED WITH LOCKING RING

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
DSP 40	1.1/2″	G 1.1/2	Aluminium	0.24	LDFG040
DSP 40	1.1/2″	G 2	Aluminium	0.29	LDFG0402
DSP 65	2.1/2″	G 2	Aluminium	0.49	LDFG0702
DSP 65	2.1/2″	G 2.1/2	Aluminium	0.44	LDFG070
DSP 65	2.1/2″	G 3	Aluminium	0.77	LDFG0703
AR 100	4″	G 4	Aluminium	1.15	LDFG100



Working pressure: 16 bar / 230 psi
Female thread: EN ISO 228-1, BSP
Profiled seal: NBR black

PLUG WITH LOCKING RING

ND	Inch	Material	Weight/pc Kg	Reference
DSP 40	1.1/2″	Aluminium	0.14	LDPG040
DSP 65	2.1/2″	Aluminium	0.3	LDPG070
AR 100	4″	Aluminium	0.74	LDPG100



Working pressure: 16 bar / 230 psi
Profiled seal: NBR black
Chain included

SERRATED HOSE SHANK WITH LOCKING RING FOR WIRE BINDING

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
DSP 40	1.1/2″	38	Aluminium	0.16	LDSG038
DSP 40	1.1/2″	40	Aluminium	0.18	LDSG040
DSP 40	1.1/2″	45	Aluminium	0.18	LDSG045
DSP 65	2.1/2″	70	Aluminium	0.41	LDSG070
AR 100	4″	110	Aluminium	1.03	LDSG110



Working pressure: 16 bar / 230 psi
Profiled seal: NBR black
Assembly: wire binding

MULTI-SERRATED HOSE SHANK WITH LOCKING RING FOR SWAGING

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
DSP 40	1.1/2″	45	Aluminium	0.16	LDSGK045
DSP 65	2.1/2″	70	Aluminium	0.18	LDSGK070



Working pressure: 16 bar / 230 psi
Profiled seal: NBR black
Assembly: swage ferrules

DSP COUPLINGS

REDUCING COUPLING DSP - DSP

ND	Inch	Material	Weight/pc Kg	Reference
DSP 40 - DSP 65	1.1/2" - 2.1/2"	Aluminium	0.55	LDVD040070
DSP 40 - AR 100	1.1/2" - 4"	Aluminium	1.18	LDVD040100
DSP 65 - AR 100	2.1/2" - 4"	Aluminium	1.27	LDVD070100



REDUCING COUPLING GUILLEMIN - DSP

ND Guillemin - DSP	Inch Guillemin - DSP	Material	Weight/pc Kg	Reference
40 - DSP 40	1.1/2" - 1.1/2"	Aluminium	0.43	LGVD038040
40 - DSP 65	1.1/2" - 2.1/2"	Aluminium	0.76	LGVD038070
50 - DSP 65	2" - 2.1/2"	Aluminium	1.09	LGVD050070
50 - AR 100	2" - 4"	Aluminium	1.75	LGVD050100
65 - DSP 65	2.1/2" - 2.1/2"	Aluminium	1.01	LGVD065070
65 - AR 100	2.1/2" - 4"	Aluminium	1.75	LGVD065100
80 - AR 100	3" - 4"	Aluminium	1.85	LGVD080100
100 - AR 100	4" - 4"	Aluminium	2.08	LGVD100100



REDUCING COUPLING DSP - STORZ

ND DSP - Storz	Inch DSP - Storz	Material	Weight/pc Kg	Reference
DSP 40 - 52C LD 66	1 1/2" - 2"	Aluminium	0.58	LDVS040066
DSP 40 - 75B LD 89	1 1/2" - 3"	Aluminium	0.64	LDVS040089
DSP 65 - 52C LD 66	2 .1/2" - 2"	Aluminium	1.00	LDVS070066
DSP 65 - 75B LD 89	2 .1/2" - 3"	Aluminium	1.01	LDVS070089
DSP 65 - 110A LD 133	2 .1/2" - 4"	Aluminium	1.46	LDVS070113
AR 100 - 52C LD 66	4" - 2"	Aluminium	1.66	LDVS100066
AR 100 - 75B LD 89	4" - 3"	Aluminium	1.61	LDVS100089
AR 100 - 110A LD 133	4" - 4"	Aluminium	2.07	LDVS100113



Working pressure: 16 bar / 230 psi
DSP and Guillemin couplings with locking ring
DSP coupling profiled seal NBR; Guillemin square seal NBR; Storz coupling profiled seal NBR
LD: Lug distance

DSP COUPLINGS

MULTI WRENCH - GY®

ND	Inch	Material	Weight/pc Kg	Reference
40 - 100	1.1/2" - 4"	Blue coated steel	0.54	GY



WRENCH

ND	Inch	Material	Weight/pc Kg	Reference
40	1.1/2"	Red coated steel	0.54	GY040
80	3"	Red coated steel	0.88	GY080



CHAIN WITH S-HOOK

Material	Length	Weight/pc Kg	Reference
Stainless steel	200 mm	0.015	KETR200

Stainless steel AISI 304 - 1.4301



SEALS

PROFILED SEAL FOR COUPLING PART

ND	Inch	Material	Colour	Ø OD mm	Ø ID mm	Height mm	Weight/pc Kg	Reference
DSP 40	1.1/2"	NBR	Black	50.0	37.0	8.0	0.01	DXB040
DSP 65	2.1/2"	NBR	Black	79.0	63.0	10.0	0.02	DXB070
AR 100	4"	NBR	Black	117.0	100.0	12.0	0.03	DXB100

ND 40 - ND 65 and ND 100 are profiled seals but vary in execution (see chapter E)



STANDARD

LMC's TW couplings are asymmetric couplings used for the transport of liquids, solids and gases, with the exception of liquefied gas and steam. The locking lever fitted to the female (MK) coupling engages in the rim of the male (VK) coupling. It is turned until both halves are tightly compressed. The locking lever is then pushed downwards and is used to prevent loosening which can lead to disconnection.

OPERATION

The female coupling (type MK) is connected to the male coupling (type VK) of the same diameter by pushing one into the other. The locking lever fitted to the female (MK) coupling engages in the rim of the male (VK) coupling. The locking lever is turned untill both couplings are compressed tightly.
The locking lever is then pushed downwards to seal the MK-VK joint.
The locking lever prevents the connection from becoming loose as a result of vibration.

N.B.: Male and female dust caps (types VB and MB) are pressure-resistant plugs, with the exception of polypropylene dust plugs.
A locking device must be used for all connected and pressurised hose assemblies.

FEATURES



1. Designed in full compliance with EN 14420-6 / DIN 28450
2. Brass TW coupling is forged
3. Right material composition
4. Mechanical resistant lever
5. Couplings are tested using the latest gauges required by the EN 14420-6 standard

APPLICATION

For the transport of liquids, solids and gases, with the exception of liquefied gas and steam

WORKING PRESSURE

25 bar / 362 psi

TEMPERATURE

-30°C / -22°F up to 120°C / 248°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Stainless steel AISI 316 / 1.4401 by investment casting
  Brass CW1617N by forging
  Aluminium by forging
  Polypropylene



- Seal

COUPLING	MATERIAL COUPLING	TYPE SEAL	STANDARD SEAL
Type MK: female part, female threaded with locking lever	Brass	Profiled seal*	NBR-black
		Thread seal	PU- brown
Type VK: male part, female threaded	Brass	Thread seal	PU- brown
Type MB: dust cap	Brass	Square seal	NBR-black
Type MK: female part, female threaded with locking lever	Stainless steel	Profiled seal*	CSM-green
		Thread seal	PTFE-white
Type VK: male part, female threaded	Stainless steel	Thread seal	PTFE-white
Type MB: dust cap	Stainless steel	Square seal	CSM-green
Type MB: dust cap	Aluminium	Square seal	NBR-black

* Profiled seals only valid for the dimensions ND 50 and ND 80.
For the dimension ND 100 an o-ring seal is used.

ASSEMBLY

RK and RKP safety clamps in compliance with EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps
Band clamps
Worm drive clamps



THREADS

Female thread EN ISO 228-1, BSP

TESTING

TW couplings at LMC-Couplings are regularly tested. Because the TW locking ring is mostly affected by falling, extra testing is done to ensure our customers a high quality product. Test levels:

- Mechanical resistance
- Material composition
- Manufacturing process
- Dimensions
- Design



- Mechanical resistance
  The locking ring of the TW coupling is one of the components most likely to be affected by impact. Distortion of the TW locking ring is tested using pressures in excess of the accepted upper pressure limit. Under normal circumstances, the locking ring is prevented from distorting by its crown. The distortion test checks the mechanical strength of the locking ring.

Test results:

- Mechanical reformed (as accepted)
- No signs of fractions
- No signs of cracks
- Elasticity not affected

The fact that LMC-Couplings brass TW locking rings pass the distortion test demonstrates that their material structure complies with the recommendations of the EN 14420-6 and DIN 28450 standards.

■ Material composition

Material quality effects the elasticity of the lever. In compliance with EN 14420-6 the following materials can be used:

Brass

• CuZn39Pb3-H80 material CW614N as specified in EN 12420

Stainless steel

• GX5CrNiMo19-11-2 material 1.4401 as specified in 10213-4



An in-house spectroscope is used to test the material composition used in TW couplings. We can therefore offer our customers a guarantee that the materials used comply fully with the EN 14420-6 standard.

■ Manufacturing process

LMC-Couplings TW couplings are manufactured in compliance with EN 14420-6 / DIN 28450. Compliance with the EN 14420-6 and DIN 28450 standards guarantees material quality and the manufacturing process. The European 14420-6 standard requires brass TW couplings to be drop-forged. During the forging process, the solid brass piece is subject to heavy impact. Evidence of this impact on the resulting coupling is a sign of quality. Stainless steel couplings are manufactured from investment-castings, as required by the European 14420-6 standard.



■ Dimensions

TW coupling dimensions are specified in EN 14420-6 and DIN 28450. All TW couplings manufactured in compliance with this standard are interchangeable. LMC-Couplings TW couplings are randomly checked for correct dimensions using two different measuring methods:

A. Measuring tooling

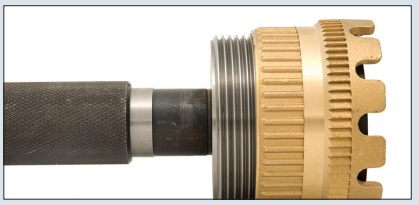
B. Gauges



Our high-technology measuring system checks that the dimensions of our TW couplings comply with the standard. Although ordinary measuring systems are unable to give precise measurements, our measuring system is able to measure the less accessible parts and shapes. This minimizes inspection times and ensures the highest levels of product quality. The European EN 14420-6 standard requires the use of gauges to guarantee interchangeability of TW couplings. LMC-Couplings uses gauges at random as a quality measurement system at several production stages, in our production plants, on arrival in our warehouse and before goods are shipped to our customers.

Using the gauges required by the European EN 14420-6 standard, LMC-Couplings measures the following four quality-point dimensions of its TW couplings:

A. Seal groove
B. Locking ring
C. Seal ring
D. Inside diameter

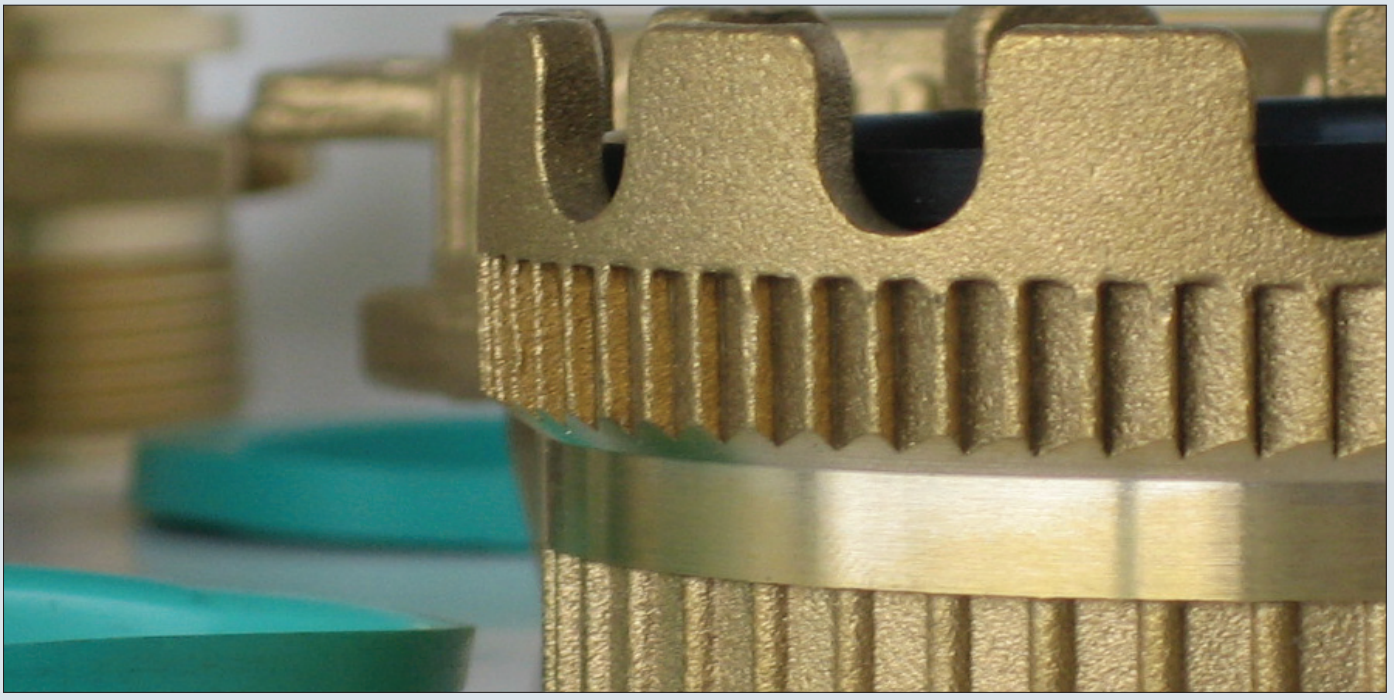


- Design

Not only do LMC's TW couplings meet the high requirements set by EN 14420-6 and DIN 28450, but we also pay a lot of attention to the design of the coupling. The design of the complete coupling, its ergonomic locking lever, smooth inner surface, branding, etc. All these properties ensure a product with a high quality of finish.

CROSS REFERENCES

MK050	TW 1502-5	MKH050	TW 1503-4	MB050	TW 1506	TWFB050	1505
MK080	TW 502-5	MKH080	TW 503-4	MB080	TW 506	TWFB080	505
VK050	TW 1501	MKV050	TW 1502	VB050	TW 1507	GSDH050	1505 GSD
VK080	TW 501	MKV080	TW 502	VB080	TW 507	GSDH080	505 GSD



TW COUPLINGS

TYPE MK: FEMALE PART - FEMALE THREADED WITH LOCKING LEVER

ND	Inch	Thread EN ISO 228-1	Thread seal	Profiled seal	Material	Weight/pc Kg	Reference
50	2"	G 2	PU	NBR	Brass	0.74	MK050
80	3"	G 3	PU	NBR	Brass	1.46	MK080
100	4"	G 4	PU	NBR	Brass	2.71	MK100
50	2"	G 2	PTFE	CSM	Stainless steel	0.63	MKRR050
80	3"	G 3	PTFE	CSM	Stainless steel	1.30	MKRR080
100	4"	G 4	PTFE	CSM	Stainless steel	2.16	MKRR100



Stainless steel: AISI 316 - 1.4401
Female thread: EN ISO 228-1, BSP
For the dimension ND 100 an o-ring seal is used.

TYPE VK: MALE PART - FEMALE THREADED WITH THREAD SEAL

ND	Inch	Thread EN ISO 228-1	Thread seal	Material	Weight/pc Kg	Reference
50	2"	G 2	PU	Brass	0.30	VK050
80	3"	G 3	PU	Brass	0.78	VK080
100	4"	G 4	PU	Brass	1.22	VK100
50	2"	G 2	PTFE	Stainless steel	0.32	VKR050
80	3"	G 3	PTFE	Stainless steel	0.74	VKR080
100	4"	G 4	PTFE	Stainless steel	1.25	VKR100



Stainless steel: AISI 316 - 1.4401
Female thread: EN ISO 228-1, BSP

TYPE MKH: LOCKING RING WITH LEVER

ND	Inch	Material	Weight/pc Kg	Reference
50	2"	Brass	0.51	MKH050
80	3"	Brass	0.93	MKH080
50	2"	Stainless steel	0.43	MKHR050
80	3"	Stainless steel	0.91	MKHR080



Stainless steel: AISI 316 - 1.4401
The locking ring with lever in the dimension ND 100 is not seperately available.

TW COUPLINGS

TYPE MKV: CROWN PART FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Thread seal	Profiled seal	Material	Weight/pc Kg	Reference
50	2"	G 2	PU	NBR	Brass	0.23	MKV050
80	3"	G 3	PU	NBR	Brass	0.55	MKV080
50	2"	G 2	PTFE	CSM	Stainless steel	0.20	MKVR050
80	3"	G 3	PTFE	CSM	Stainless steel	0.49	MKVR080



Stainless steel: AISI 316 - 1.4401
Female thread: EN ISO 228-1, BSP
The dimension ND 100 is not separately available.

TYPE MB: DUST CAP

ND	Inch	Seal	Material	Weight/pc Kg	Reference
50	2"	NBR	Brass	0.37	MB050
80	3"	NBR	Brass	0.88	MB080
100	4"	NBR	Brass	1.14	MB100
50	2"	CSM	Stainless steel	0.35	MBR050
80	3"	CSM	Stainless steel	0.81	MBR080
100	4"	CSM	Stainless steel	1.21	MBR100
50	2"	NBR	Aluminium	0.19	MBA050
80	3"	NBR	Aluminium	0.32	MBA080
100	4"	NBR	Aluminium	0.47	MBA100



Stainless steel AISI 316 - 1.4401
Chain not included
ND 100 is an o-ring seal

TYPE VB: DUST PLUG

ND	Inch	Material	Weight/pc Kg	Reference
50	2"	Brass	0.36	VB050
80	3"	Brass	0.89	VB080
100	4"	Brass	1.10	VB100
50	2"	Stainless steel	0.30	VBR050
80	3"	Stainless steel	0.71	VBR080
100	4"	Stainless steel	0.99	VBR100
50	2"	Aluminium	0.10	VBA050
80	3"	Aluminium	0.30	VBA080
100	4"	Aluminium	0.48	VBA100
50	2"	Polypropylene	0.10	VBP050
80	3"	Polypropylene	0.30	VBP080
100	4"	Polypropylene	0.48	VBP100



Stainless steel AISI 316 - 1.4401
Chain not included
Polypropylene dust plugs are not pressure resistant

TW COUPLINGS

TYPE MKST: FEMALE PART WITH LOCKING LEVER AND SMOOTH HOSE SHANK

ND	Inch	Material	For hose mm	Weight/pc Kg	Reference
50	2"	Brass	50	1.20	MKST050
80	3"	Brass	75	2.37	MKST080
50	2"	Stainless steel	50	1.09	MKSTRR050
80	3"	Stainless steel	75	2.21	MKSTRR080





The female part, type MKST is a monoblock version
Standard hose shank EN 14420-2 / DIN 2817
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps
Stainless steel AISI 316 - 1.4401

TYPE VKST: MALE PART WITH SMOOTH HOSE SHANK

ND	Inch	Material	For hose mm	Weight/pc Kg	Reference
50	2"	Brass	50	0.76	VKST050
80	3"	Brass	75	1.69	VKST080
50	2"	Stainless steel	50	0.78	VKSTR050
80	3"	Stainless steel	75	1.65	VKSTR080





The male part, type VKST is a monoblock version
Standard hose shank EN 14420-2 / DIN 2817
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps
Stainless steel AISI 316 - 1.4401

ACCESSORIES

CHAIN WITH S-HOOK

Length mm	Material	Weight/pc Kg	Reference
200	Stainless steel	0.015	KETR200



Stainless steel AISI 304 - 1.4301

TW COUPLINGS

PROFILED CROWN SEAL

ND	Inch	Material	Colour	Ø OD +/- 0.2 mm	Ø ID +/- 0.3 mm	Height +/- 0.2 mm	Weight Kg	Reference
50	2"	NBR	Black	62.5	49.0	10.0	0.01	GSDB050
80	3"	NBR	Black	92.0	76.0	11.6	0.03	GSDB080
50	2"	CSM	Green	62.5	49.0	10.0	0.01	GSDH050
80	3"	CSM	Green	92.0	76.0	11.6	0.03	GSDH080
50	2"	FPM	Black	62.5	49.0	10.0	0.01	GSDV050
80	3"	FPM	Black	92.0	76.0	11.6	0.03	GSDV080



SQUARE SEAL FOR FEMALE CAP TYPE MB

ND	Inch	Material	Colour	Ø OD +/- 0.6 mm	Ø ID +/- 0.3 mm	Height +/- 0.2 mm	Weight Kg	Reference
50	2"	NBR	Black	61.5	49.0	5.0	0.01	TWFB050
80	3"	NBR	Black	92.0	77.0	6.0	0.02	TWFB080
50	2"	CSM	Green	61.5	49.0	5.0	0.01	TWFH050
80	3"	CSM	Green	92.0	77.0	6.0	0.02	TWFH080
50	2"	PTFE	White	61.5	49.0	5.0	0.01	TWFP050
80	3"	PTFE	White	92.0	77.0	6.0	0.02	TWFP080
50	2"	FPM	Black	61.5	49.0	5.0	0.01	TWFV050
80	3"	FPM	Black	92.0	77.0	6.0	0.02	TWFV080



O-RING FOR FEMALE CAP TYPE MB AND CROWN PART TYPE MKV

ND	Inch	Material	Colour	Ø OD +/- 0.8 mm	Ø ID +/- 0.8 mm	Height +/- 0.3 mm	Weight Kg	Reference
100	4"	NBR	Black	113.0	99.0	7.0	0.02	TWFB100
100	4"	CSM	Green	113.0	99.0	7.0	0.02	TWFH100
100	4"	FPM	Black	113.0	99.0	7.0	0.02	TWFV100



THREAD SEAL

ND	Inch	Material	Colour	Ø OD mm	Ø ID mm	Height mm	Weight Kg	Reference
50	2"	PTFE	White	60	49	2	0.004	X2RP050
80	3"	PTFE	White	88	77	3	0.010	X2RP075
100	4"	PTFE	White	114	100	3	0.015	X2RP100
50	2"	PU	Brown	60	49	2	0.002	X2RV050
80	3"	PU	Brown	88	77	3	0.005	X2RV075
100	4"	PU	Brown	114	100	3	0.008	X2RV100



Thread seal dimensions in compliance with EN 14420-5
Seal colours are subject to change without prior notice

'GK' COUPLINGS

STANDARD

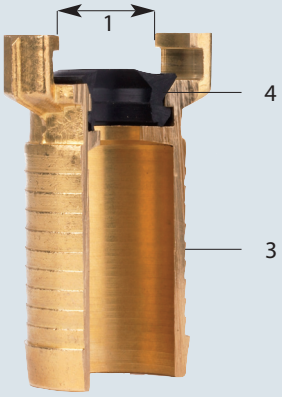
LMC's 'GK' couplings are symmetric quick couplings designed for agricultural, gardening, construction and public service applications.

OPERATION

'GK' couplings are connected by pushing and rotating the two couplings together. The claw distance is a 40 mm and therefore interchangeable between all dimensions from DN 10 to DN 38.
'GK' couplings are not interchangeable with Express couplings complying with NF E 29.573 and European air couplings complying with DIN 3489.

N.B.: Due to the wide range of 'GK'-type seals, 'GK' couplings can not always be connected with those of other manufacturers.

FEATURES



1. Claw distance 40 mm
2. Easily connected and disconnected coupling
3. The serrated shank ensures perfect rigidity when assembled with worm drive clamps or low pressure ferrules
4. The high mechanical strength of 'GK' claws ensures longer working life
5. Hot drop forged chrome-treated brass Ms58

APPLICATION

For agricultural, gardening, construction and public service applications.

WORKING PRESSURE

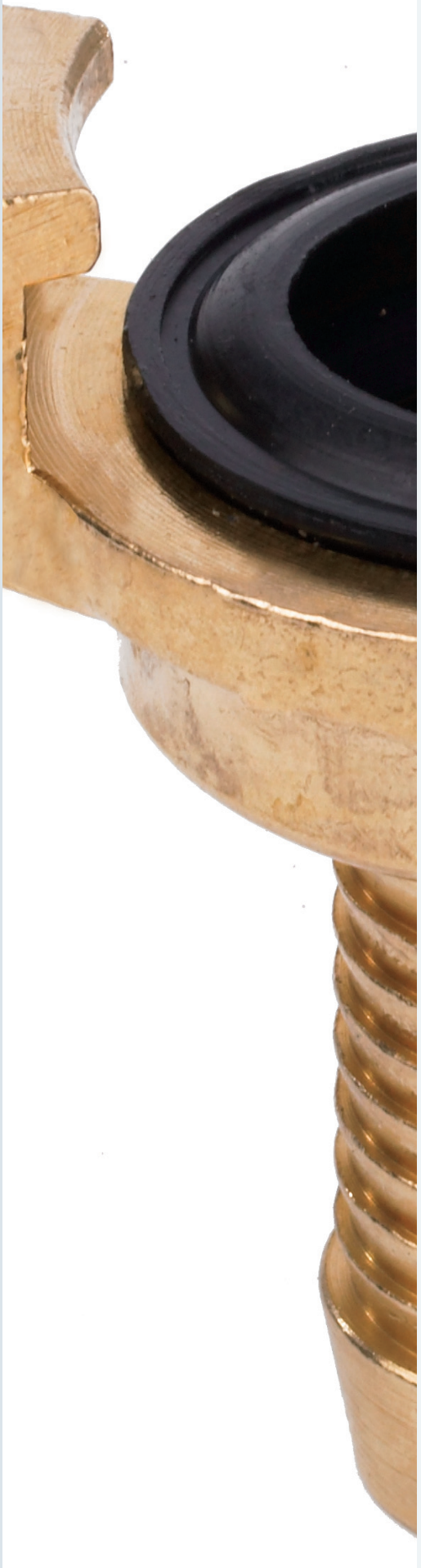
10 bar / 145 psi

TEMPERATURE

-30°C / -22°F up to 120°C / 248°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Brass 2.0401 - Ms 58 hot forged
- Seal
  NBR standard
  FPM on request



ASSEMBLY

Worm drive clamps
Low pressure ferrules

THREADS

Male thread: EN ISO 228-1, BSP
Female thread: EN ISO 228-1, BSP

TESTING

LMC-Couplings 'GK' couplings are subject to a number of quality tests. The mechanical structure, chemical composition, seal compression set and claw strength are all important product properties for high-quality couplings.

- Impact testing of 'GK'-claws
  In addition to being manufactured from the right material quality (brass 2.0401 – Ms 58) using the right production method (hot drop forged), the claws of LMC's 'GK' couplings are tested for mechanical strength by means of an impact test. Above the accepted pressure limit, 'GK' coupling claws may distort, although this is impossible under normal working conditions when both parts of the 'GK' coupling are connected.
  However, 'GK' claws are often dropped by operators, which can result in fractures or even claw breakage. Following impact testing, LMC's 'GK' coupling claws show no sign of fracture or breakage. LMC-Couplings 'GK' couplings are manufactured from the right quality of material, have the right mechanical structure and are produced using the right production method.



Deformed 'GK'-claws



Not deformed 'GK'-claws



'GK' COUPLINGS

'GK' COUPLING MALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
10	3/8"	G 3/8	Brass Ms 58	0.07	GKM010
15	1/2"	G 1/2	Brass Ms 58	0.07	GKM013
20	3/4"	G 3/4	Brass Ms 58	0.07	GKM019
25	1"	G 1	Brass Ms 58	0.08	GKM025
32	1.1/4"	G 1.1/4	Brass Ms 58	0.10	GKM032
40	1.1/2"	G 1.1/2	Brass Ms 58	0.14	GKM038



Claw distance: 40 mm
Working pressure: 10 bar / 145 psi
Profiled seal: NBR standard
Male thread: EN ISO 228-1, BSP

'GK' COUPLING FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
10	3/8"	G 3/8	Brass Ms 58	0.07	GKF010
15	1/2"	G 1/2	Brass Ms 58	0.07	GKF013
20	3/4"	G 3/4	Brass Ms 58	0.08	GKF019
25	1"	G 1	Brass Ms 58	0.08	GKF025
32	1.1/4"	G 1.1/4	Brass Ms 58	0.11	GKF032
40	1.1/2"	G 1.1/2	Brass Ms 58	0.13	GKF038



Claw distance: 40 mm
Working pressure: 10 bar / 145 psi
Seal: coupling side NBR standard
thread side SBR
Female thread: EN ISO 228-1, BSP

'GK' COUPLING WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
10	3/8"	10	Brass Ms 58	0.07	GKS010
13	1/2"	13	Brass Ms 58	0.07	GKS013
16	5/8'	16	Brass Ms 58	0.08	GKS016
19	3/4"	19	Brass Ms 58	0.08	GKS019
25	1"	25	Brass Ms 58	0.10	GKS025
32	1.1/4"	32	Brass Ms 58	0.14	GKS032
38	1.1/2"	38	Brass Ms 58	0.18	GKS038



Claw distance: 40 mm
Working pressure: 10 bar / 145 psi
Profiled seal: NBR standard
Assembly: worm drive clamps or low pressure ferrules

'GK' COUPLINGS

'GK' COUPLING CAP

Material	Weight/pc Kg	Reference
Brass	0.09	GKK



Claw distance: 40 mm
Working pressure: 10 bar / 145 psi
Profiled seal: NBR standard
Cap without chain

SEAL

PROFILED SEAL

Material	Colour	OD Ø mm	ID Ø mm	Height mm	Box pieces	Weight kg	Reference
NBR	black	35.0	24.0	12.0	50	0.005	GKXB
FPM	green	35.0	24.0	12.0	50	0.009	GKXV



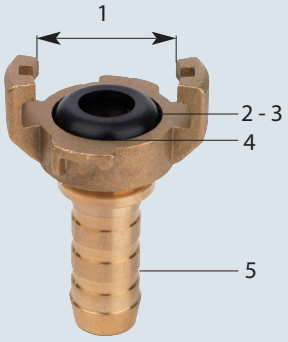
STANDARD

LMC's Express couplings are symmetrical half-couplings used for water and air applications complying with the NF E 29-573 standard.

OPERATION

The two couplings are pushed together and rotated to form a seal. The claws of express couplings are spaced at a standard 41 mm, and are not inter-changeable with 'GK' and European air couplings.

FEATURES



1. Claw distance 41 mm
2. Supplied as standard with profiled NBR seal offering excellent sealing properties and with an operating temperature range of -30°C / -22°F to 120°C / 248°F
3. Machined seal sitting
4. Machined serrated hose shank for perfect rigidity when assembled with worm drive or claw clamps
5. The high mechanical strength of Express coupling claws ensures longer working life

APPLICATION

For water and air applications

WORKING PRESSURE

10 bar / 145 psi

TEMPERATURE

-30°C / -22°F up to 120°C / 248°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Brass
  Stainless steel AISI 316 - 1.4401
- Seal
  NBR for brass version (standard)
  FPM for stainless steel version

ASSEMBLY

Worm drive clamps
Clamps

THREADS

Male thread: EN ISO 228-1, BSP
Female thread: EN ISO 228-1, BSP



EXPRESS COUPLINGS

EXPRESS COUPLING MALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
6	1/4"	G 1/4	Brass	0.09	EXM006
10	3/8"	G 3/8	Brass	0.10	EXM010
15	1/2"	G 1/2	Brass	0.10	EXM013
20	3/4"	G 3/4	Brass	0.10	EXM019
25	1"	G 1	Brass	0.14	EXM025
32	1.1/4"	G 1.1/4	Brass	0.25	EXM032
10	3/8"	G 3/8	Stainless steel	0.10	EXMR010
15	1/2"	G 1/2	Stainless steel	0.10	EXMR013
20	3/4"	G 3/4	Stainless steel	0.10	EXMR019
25	1"	G 1	Stainless steel	0.25	EXMR025



Claw distance: 41 mm
Working pressure: 10 bar / 145 psi
Profiled seal: NBR (standard) for brass version
FPM for stainless steel version
Stainless steel: AISI 316 / 1.4401
Male thread EN ISO 228-1, BSP

EXPRESS COUPLING FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
6	1/4"	G 1/4	Brass	0.09	EXF006
10	3/8"	G 3/8	Brass	0.10	EXF010
15	1/2"	G 1/2	Brass	0.10	EXF013
20	3/4"	G 3/4	Brass	0.11	EXF019
25	1"	G 1	Brass	0.11	EXF025
32	1.1/4"	G 1.1/4	Brass	0.25	EXF032
10	3/8"	G 3/8	Stainless steel	0.10	EXFR010
15	1/2"	G 1/2	Stainless steel	0.10	EXFR013
20	3/4"	G 3/4	Stainless steel	0.11	EXFR019
25	1"	G 1	Stainless steel	0.25	EXFR025



Claw distance: 41 mm
Working pressure: 10 bar / 145 psi
Profiled seal: NBR (standard) for brass version
FPM for stainless steel version
Stainless steel: AISI 316 / 1.4401
Female thread EN ISO 228-1, BSP

EXPRESS COUPLINGS

EXPRESS COUPLING WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
6	1/4"	6	Brass	0.10	EXS006
10	3/8"	10	Brass	0.12	EXS010
13	1/2"	13	Brass	0.12	EXS013
16	5/8"	16	Brass	0.13	EXS016
20	3/4"	20	Brass	0.13	EXS020
25	1"	25	Brass	0.15	EXS025
13	1/2"	13	Stainless steel	0.11	EXSR013
16	5/8"	16	Stainless steel	0.12	EXSR016
20	3/4"	20	Stainless steel	0.13	EXSR019
25	1"	25	Stainless steel	0.16	EXSR025



Claw distance: 41 mm
Working pressure: 10 bar / 145 psi
Profiled seal: NBR (standard) for brass version
FPM for stainless steel version
Assembly: worm drive clamps
Stainless steel: AISI 316 / 1.4401

CLAMPS

Material	Outside hose min-max mm	Weight/pc Kg	Reference
Carbon steel	19-21	0.04	EXK019
Carbon steel	22-25	0.04	EXK022
Carbon steel	25-27	0.06	EXK025
Carbon steel	28-30	0.06	EXK028
Carbon steel	31-33	0.08	EXK031
Carbon steel	34-36	0.13	EXK034
Carbon steel	37-39	0.15	EXK037



EXPRESS COUPLING CAP

Material	Weight/pc Kg	Reference
Brass	0.13	EXK
Stainless steel	0.13	EXKR



Claw distance: 41 mm
Working pressure: 10 bar / 145 psi
Profiled seal: NBR (standard) for brass version
FPM for stainless steel version
Cap without chain
Stainless steel: AISI 316 / 1.4401

EXPRESS COUPLINGS

PROFILED SEAL

Material	Colour	OD Ø mm	ID Ø mm	Height +0,5 mm	Box pieces	Weight kg	Reference
NBR	black	35.0	15.0	10.0	50	0.01	EXX
FPM	green	35.0	15.0	10.0	50	0.01	EXXV



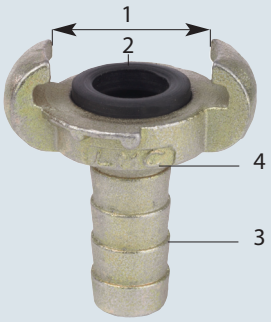
STANDARD

LMC's European air couplings are heavy-duty claw couplings manufactured in compliance with DIN 3489.

OPERATION

The claw distance is standardised to 42 mm. The couplings are pushed together and rotated to form a seal. Due to the lateral and angular shape of the seal an instant force is set, which prevent pressure loss due to vibration. The head of a European air coupling is identical and exchangeable with other European air-versions.

FEATURES



1. Claw distance: 42mm
2. LMC's EA couplings include a specially designed profiled NBR seal, the lateral and angular shape of which offers excellent compression properties.
   Pressure is applied as soon as the coupling is connected.
3. The serrated shank ensures perfect rigidity when assembled with saddle and worm drive clamps.
4. The LMC-Couplings brand name is marked on the top of the coupling.

APPLICATION

For air and water applications.
N.B.: European air couplings should never be used for steam applications

WORKING PRESSURE

10 bar / 145 psi

TEMPERATURE

-30°C / -22°F up to 120°C / 248°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Galvanized steel, stainless steel AISI 316, 14401
- Seal
  NBR

ASSEMBLY

Two-bolt saddle clamps
Worm drive clamps

THREADS

Male thread:	EN 10226-1 / DIN 2999, BSPT (not complying with DIN 3489)
Female thread:	EN ISO 228-1, BSP



EUROPEAN AIR COUPLINGS

EA COUPLING MALE THREADED, DIN 3489 - VBA

ND	Inch	Thread DIN 2999	Material	Weight/pc Kg	Reference
6	1/4"	R 1/4	Galvanized steel	0.14	EAM006
10	3/8"	R 3/8	Galvanized steel	0.15	EAM010
15	1/2"	R 1/2	Galvanized steel	0.15	EAM013
20	3/4"	R 3/4	Galvanized steel	0.18	EAM019
25	1"	R 1	Galvanized steel	0.19	EAM025
32	1.1/4"	R 11/4	Galvanized steel	0.26	EAM032



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR
Male thread EN 10226-1 / DIN 2999, BSPT (not complying with DIN 3489)

EA COUPLING FEMALE THREADED, DIN 3489 - VBI

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
6	1/4"	G 1/4	Galvanized steel	0.13	EAF006
10	3/8"	G 3/8	Galvanized steel	0.14	EAF010
15	1/2"	G 1/2	Galvanized steel	0.14	EAF013
20	3/4"	G 3/4	Galvanized steel	0.15	EAF019
25	1"	G 1	Galvanized steel	0.18	EAF025
32	1.1/4"	G 11/4	Galvanized steel	0.25	EAF032



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR
Female thread EN ISO 228-1, BSP

EA COUPLING WITH SERRATED HOSE SHANK, DIN 3489 - VB1

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
10	3/8"	10.0	Galvanized steel	0.15	EAS010
13	1/2"	13.0	Galvanized steel	0.16	EAS013
16	5/8"	16.0	Galvanized steel	0.15	EAS016
19	3/4"	19.0	Galvanized steel	0.18	EAS019
25	1"	25.0	Galvanized steel	0.21	EAS025
32	1.1/4"	32.0	Galvanized steel	0.22	EAS032



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR
Assembly: two bolt saddle clamps, worm drive clamps

EUROPEAN AIR COUPLINGS

EA COUPLING WITH SERRATED HOSE SHANK AND COLLAR

ND	Inch	OD shank mm	Material	Weight/pc Kg	Reference
10	3/8″	10.0	Galvanized steel	0.13	EASK010
13	1/2″	13.0	Galvanized steel	0.19	EASK013
19	3/4″	19.0	Galvanized steel	0.20	EASK019
25	1″	25.0	Galvanized steel	0.22	EASK025



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR standard
Assembly: two bolt saddle clamps or worm drive clamps

EA COUPLING CAP, DIN 3489 - VB

Material	Weight/pc Kg	Reference
Galvanized steel	0.15	EAK



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR standard

SEAL

PROFILED SEAL DIN 3489-D

Material	Colour	OD mm +0.1 / -0.2	ID mm	Height +0.2 / -0.1	Box pieces	Weight kg	Reference
NBR	black	34.0	20.0	11.0	50	0.006	EAX
CSM	green	34.0	20.0	11.0	50	0.006	EAXV



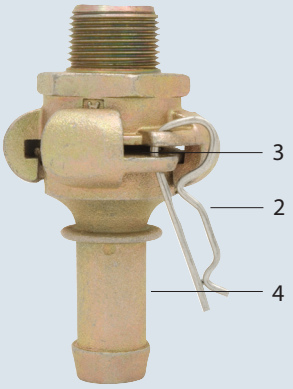
STANDARD

The safety version of LMC's European air couplings is similar to the European DIN 3489 standard for air couplings, but with the addition of a safety locking pin for extra security.

OPERATION

Similar to air couplings complying with the European DIN 3489 standard, the claw distance of European air safety couplings is standard 42 mm.
Next to the claws of the safety European air coupling, a hole is provided. Both couplings are pushed together and rotated untill the holes of both couplings are placed in opposite of each other. A safety pin is inserted in the holes and the connection is extra secured.

FEATURES



1. Claw distance: 42mm
2. Safety locking pin for additional security
3. LMC's EA couplings include a specially-designed profiled NBR seal, the lateral and angular shape of which offers excellent compression properties. Pressure is applied as soon as the coupling is connected, which prevents the connection from becoming loose as a result of vibration.
4. The hose shank ensures perfect rigidity when assembled with saddle and worm drive clamps .
5. The LMC-Couplings brand name is marked on the top of the coupling.

APPLICATION

For air and water applications
N.B.: European air safety couplings should never be used for steam applications

WORKING PRESSURE

10 bar / 145 psi

MATERIAL

- Coupling
  Galvanized steel
- Seal
  NBR

TEMPERATURE

-30°C / -22°F up to 120°C / 248°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

ASSEMBLY

Two-bolt saddle clamps
Worm drive clamps

THREADS

Male thread: EN 10226-1 / DIN 2999, BSPT
Female thread: EN ISO 228-1, BSP



EUROPEAN AIR SAFETY COUPLINGS

EA SAFETY COUPLING MALE THREADED

ND	Inch	Thread DIN 2999	Material	Weight/pc Kg	Reference
10	3/8″	R 3/8	Galvanized steel	0.19	EAMS010
15	1/2″	R 1/2	Galvanized steel	0.23	EAMS013
20	3/4″	R 3/4	Galvanized steel	0.24	EAMS019
25	1″	R 1	Galvanized steel	0.25	EAMS025
32	1.1/4″	R 11/4	Galvanized steel	0.25	EAMS032



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR
Male thread EN 10226-1 / DIN 2999, BSPT

EA SAFETY COUPLING FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
10	3/8″	G 3/8	Galvanized steel	0.19	EAFS010
15	1/2″	G 1/2	Galvanized steel	0.19	EAFS013
20	3/4″	G 3/4	Galvanized steel	0.19	EAFS019
25	1″	G 1	Galvanized steel	0.23	EAFS025
32	1.1/4″	G 11/4	Galvanized steel	0.28	EAFS032



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR
Female thread EN ISO 228-1, BSP

EA SAFETY COUPLING WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
10	3/8″	10.0	Galvanized steel	0.20	EASS010
13	1/2″	13.0	Galvanized steel	0.19	EASS013
19	3/4″	19.0	Galvanized steel	0.22	EASS019
25	1″	25.0	Galvanized steel	0.24	EASS025
32	1.1/4″	32.0	Galvanized steel	0.32	EASS032



Claw distance: 42mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR
Assembly: saddle and worm drive clamps

EA SAFETY COUPLING - 3 WAY CONNECTION

Material	Weight/pc Kg	Reference
Galvanized steel	0.61	EAYS



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR

SAFETY CLIP

Material	Weight/pc Kg	Reference
Stainless steel AISI 304	0.018	VLBVR2
Galvanized steel	0.018	VLBVS2



SEAL

PROFILED SEAL DIN 3489-D

Material	Colour	OD mm +0.1 / -0.2	ID mm	Height +0.2 / -0.1	Box pieces	Weight kg	Reference
NBR	black	34.0	20.0	11.0	50	0.006	EAX



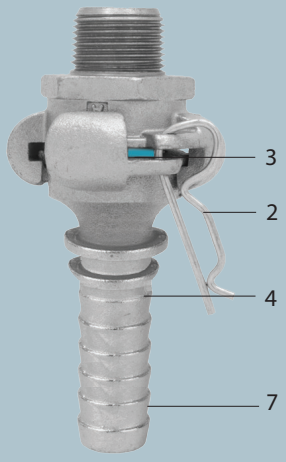
STANDARD

The safety version of LMC's European air couplings is similar to the European DIN 3489 standard for air couplings, but with the addition of a safety locking pin for extra security and easy crimp swaging features.

OPERATION

Similar to air couplings complying with the European DIN 3489 standard, the claw distance of European air safety couplings is standard 42 mm.
Next to the claws of the safety European air coupling, a hole is provided. Both couplings are pushed together and rotated untill the holes of both couplings are placed in opposite of each other. A safety pin is inserted in the holes and the connection is extra secured.

FEATURES



1. Claw distance: 42mm
2. Safety locking pin for additional security
3. LMC's EA couplings include a specially-designed profiled blue EPDM seal, the lateral and angular shape of which offers excellent compression properties. Pressure is applied as soon as the coupling is connected, which prevents the connection from becoming loose as a result of vibration.
4. The serrated hose shank ensures perfect rigidity
5. The LMC-Couplings brand name is marked on the top of the coupling.
6. White plate galvanized
7. Extra long tail with special shape for more power (20 bar)
8. Easy fit into all kinds of hoses (PVC, rubber…) without hammering

APPLICATION

For air and water applications

N.B.: European air safety couplings should never be used for steam applications

WORKING PRESSURE

20 bar / 290 psi

MATERIAL

* Coupling
  White galvanized steel
* Seal
  NBR Blue

TEMPERATURE

-30°C / -22°F up to 120°C / 248°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

ASSEMBLY

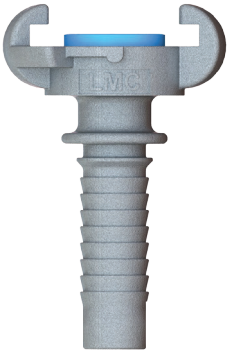
- Easy crimp ferrule
- Worm drive clamps
- Air safety clamps



EUROPEAN AIR CRIMP COUPLINGS

EA CRIMP COUPLING WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Material	Weight/pc kg	Reference
13	1/2"	13	Galvanized steel	0.19	EASS013C
19	3/4"	19	Galvanized steel	0.22	EASS019C
25	1"	25	Galvanized steel	0.24	EASS025C



Claw distance: 42mm
Working pressure: 20 bar / 290 psi
Profiled seal DIN 3489-D: Blue EPDM
Assembly: worm drive clamps, air safety clamps and easy crimp ferrule

SAFETY CLIP

Material	Weight/pc kg	Reference
Stainless steel AISI 304	0.018	VLBVR2
Galvanised steel	0.018	VLBVS2



EA CRIMP FERRULE

ND	Inch	For hose mm	Material	Reference
13	1/2"	3,5 - 4,7 mm	Steel S235j2H	LHEASS013C
19	3/4"	4,5 - 6 mm	Steel S235j2H	LHEASS019C
25	1"	6 - 7,5 mm	Steel S235j2H	LHEASS025C



SEAL

PROFILED SEAL DIN 3489-D

Material	Colour	OD mm +0,1 / -0,2	ID mm	Height +0,2 / -0,1	Box pieces	Weight/pc kg	Reference
EPDM	BLUE	34,0	20,0	11,0	50	0.006	EAXE



EUROPEAN AIR CRIMP COUPLINGS

EA SAFETY COUPLING CAP

Material	Weight/pc Kg	Reference
Galvanized steel	0.31	EAKS



Claw distance: 42mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR

EA SAFETY COUPLING - 3 WAY CONNECTION

Material	Weight/pc Kg	Reference
Galvanized steel	0.61	EAYS



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR

SAFETY CLIP

Material	Weight/pc Kg	Reference
Stainless steel AISI 304	0.018	VLBVR2
Galvanized steel	0.018	VLBVS2



SEAL

PROFILED SEAL DIN 3489-D

Material	Colour	OD mm +0.1 / -0.2	ID mm	Height +0.2 / -0.1	Box pieces	Weight kg	Reference
EPDM	BLUE	34.0	20.0	11.0	50	0.006	EAXE



EUROPEAN AIR COUPLINGS SS DIN 3489

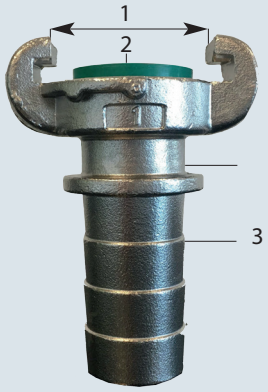
STANDARD

LMC's European air couplings are heavy-duty claw couplings manufactured in compliance with DIN 3489.

OPERATION

The claw distance is standardised to 42 mm. The couplings are pushed together and rotated to form a seal. Due to the lateral and angular shape of the seal an instant force is set, which prevent pressure loss due to vibration. The head of a European air coupling is identical and exchangeable with other European air-versions.

FEATURES



1. Claw distance: 42mm
2. LMC's EA couplings include a specially designed profiled seal, the lateral and angular shape of which offers excellent compression properties.
   Pressure is applied as soon as the coupling is connected.
3. The serrated shank ensures perfect rigidity when assembled with saddle and worm drive clamps.



APPLICATION

For air and water applications.

N.B.: European air couplings should never be used for steam applications

WORKING PRESSURE

10 bar / 145 psi

TEMPERATURE

-30°C / -22°F up to 120°C / 248°F with NBR seal, up to 200°C with FPM seal
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Galvanized steel, stainless steel AISI 316, 14401
- Seal
  NBR , FPM

ASSEMBLY

Two-bolt saddle clamps
Worm drive clamps

THREADS

Male thread: EN 10226-1 / DIN 2999, BSPT (not complying with DIN 3489)
Female thread: EN ISO 228-1, BSP

EUROPEAN AIR COUPLINGS

EA COUPLING MALE THREADED, DIN 3489 - VBA

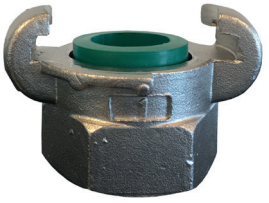
ND	Inch	Thread DIN 2999	Material	Weight/pc Kg	Reference
15	1/2"	R 1/2	Stainless steel	0.15	EAMR013
20	3/4"	R 3/4	Stainless steel	0.16	EAMR019
25	1"	R 1	Stainless steel	0.22	EAMR025



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: FPM
Male thread EN 10226-1 / DIN 2999, BSPT (not complying with DIN 3489)

EA COUPLING FEMALE THREADED, DIN 3489 - VBI

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
15	1/2"	G 1/2	Stainless steel	0.15	EAFR013
20	3/4"	G 3/4	Stainless steel	0.15	EAFR019
25	1"	G 1	Stainless steel	0.17	EAFR025



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: FPM
Female thread EN ISO 228-1, BSP

EA COUPLING WITH SERRATED HOSE SHANK, DIN 3489 - VB1

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
13	1/2"	13.0	Stainless steel	0.17	EASKR013
19	3/4"	19.0	Stainless steel	0.19	EASKR019
25	1"	25.0	Stainless steel	0.24	EASKR025

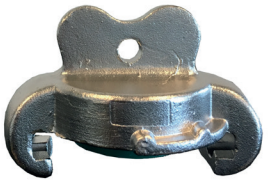


Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: FPM
Assembly: two bolt saddle clamps, worm drive clamps

EUROPEAN AIR COUPLINGS

EA COUPLING CAP, DIN 3489 - VB

Material	Weight/pc Kg	Reference
Stainless steel	0.14	EAKR



Claw distance: 42 mm
Working pressure: 10 bar / 145 Psi
Profiled seal DIN 3489-D: NBR standard

SEAL

PROFILED SEAL DIN 3489-D

Material	Colour	OD mm +0.1 / -0.2	ID mm	Height +0.2 / -0.1	Box pieces	Weight kg	Reference
NBR	black	34.0	20.0	11.0	50	0.006	EAX
FPM	green	34.0	20.0	11.0	50	0.006	EAXV



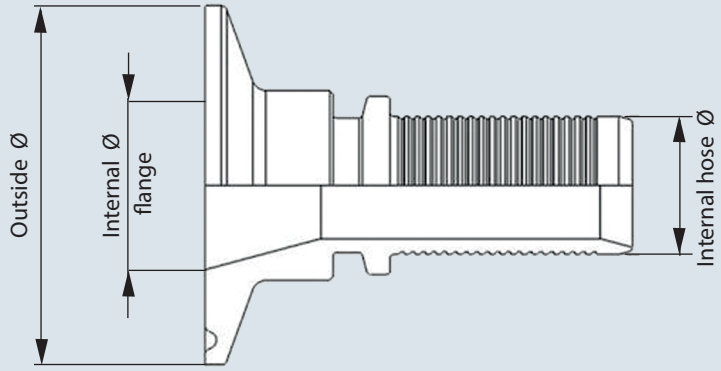
STANDARD

LMC's Triclamp couplings are quick couplings used in working environments demanding high levels of hygiene; e.g. the food, pharmaceutical, chemical and life science industries. The Triclamp couplings are available in DIN 32676, INCH, IMPERIAL or ISO 1127 standards.

OPERATION

Triclamp couplings are easily identified by their flange design. The transition from the flange side to the hose side is made by a conical profile. The flange side is used to connect to another flange of the same dimension and standard. Users should ensure that only Triclamp's complying with the same standard are connected together. The Triclamp seal (profiled or non-profiled) is fitted to one of the flanges. The second Triclamp is then brought together with the flange containing the seal. The heavy-duty clamp is applied to the flanges and closed. The coupling can easily be connected, disconnected and reused .

N.B.: Closing the heavy-duty clamp too tightly will alter the mechanical structure of the flange seal. Always use the recommended torque setting of 5 NM.



FEATURES



1. Lightly-grooved hose shank for assembly with EN 14420-3 RK safety clamps, HRRK or HRP-swage ferrules
2. Bacterial growth is prevented due to the sanitary transition of the inside of the hose shank
3. The rounded end of the hose shank prevents hose damage
4. Low internal Ra value of ≤ 0.8 µm (Ra test report available)
5. Outer diameter in relation with inner flange dimension. No disconnection necessary to define the type of tube system.
6. All sizes are fully vacuum-resistant up to 130°C / 265°F
7. Transition is possible between Triclamp couplings with same flange size/standard, same ID flange side and different hose dimension
8. EN 10204-type 3.1 certificate available on request



TRICLAMP COUPLINGS

APPLICATION

For food, beverage, chemical, pharmaceutical and life science industry applications, as well as bio-engineering, filter and water treatment technology.

WORKING PRESSURE

Coupling
ND 10 to ND 50: maximum 16 bar / 230 psi
ND 65 to ND 100: maximum 10 bar / 145 psi

TEMPERATURE

-30°C / -22°F up to +300°C / 572°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  - Triclamp coupling with hose shank
    - Stainless steel AISI 316Ti / 1.4571
    - Polypropylene or reinforced PTFE (on request)
    - HASTELLOY® C-276 alloy on request
      HASTELLOY® is a registered trademark of Haynes International, Inc.
  - Triclamp coupling with butt weld
    - Stainless steel AISI 316L - 1.4404

- Seals
  - DIN 32676: NBR, EPDM, FPM, PTFE , MVQ
  - INCH: NBR, EPDM, FPM, PTFE
  - ISO1127: Silicone, EPDM, FPM, GYLON BIO-PRO®
  - IMPERIAL: NBR, EPDM, FPM, PTFE
  - Other materials on request
    GYLON BIO-PRO® is a registered trademark of Garlock Sealing Technologies

ASSEMBLY

- Stainless steel RK safety clamps EN 14420-3 / DIN 2817
- Stainless steel HRRK swage ferrules for rubber hoses
- Stainless steel HRP swage ferrules for PTFE hoses
- Butt welding

RA TEST REPORT

A roughness test report for our standard range of Triclamp couplings is available on request . Ra value (or Roughness average value) is the average of a set of individual measurements of the peaks and troughs of a given surface.

Inner roughness average value (Ra) ≤ 0.8 µm
Outer roughness average value (Ra) ≤ 1.2 µm

Inner Ra value of ≤ 0.3 µm available on request.



TRICLAMP COUPLINGS

TRICLAMP COUPLING WITH HOSE SHANK - DIN 32676

Standard	ND	For hose mm	OD Ø flange mm	ID Ø flange mm	ID hose shank mm	Reference
DIN 32676	10	6.0	34.0	10.0	4.0	RTRI0634ID10
DIN 32676	10	8.0	34.0	10.0	5.5	RTRI0834ID10
DIN 32676	10	10.0	34.0	10.0	7.0	RTRI1034ID10
DIN 32676	10	12.0	34.0	10.0	9.0	RTRI1234ID10
DIN 32676	10	20.0	34.0	10.0	15.0	RTRI2034ID10
DIN 32676	10	25.0	34.0	10.0	21.0	RTRI2534ID10
DIN 32676	15	8.0	34.0	16.0	5.5	RTRI0834ID16
DIN 32676	15	10.0	34.0	16.0	7.0	RTRI1034ID16
DIN 32676	15	12.0	34.0	16.0	9.0	RTRI1234ID16
DIN 32676	15	20.0	34.0	16.0	15.0	RTRI2034ID16
DIN 32676	15	25.0	34.0	16.0	21.0	RTRI2534ID16
DIN 32676	20	8.0	34.0	20.0	5.5	RTRI0834ID20
DIN 32676	20	10.0	34.0	20.0	7.0	RTRI1034ID20
DIN 32676	20	12.0	34.0	20.0	9.0	RTRI1234ID20
DIN 32676	20	20.0	34.0	20.0	15.0	RTRI2034ID20
DIN 32676	20	25.0	34.0	20.0	21.0	RTRI2534ID20
DIN 32676	25	12.0	50.5	26.0	9.0	RTRI1250ID26
DIN 32676	25	20.0	50.5	26.0	15.0	RTRI2050ID26
DIN 32676	25	25.0	50.5	26.0	21.0	RTRI2550ID26
DIN 32676	25	32.0	50.5	26.0	28.0	RTRI3250ID26
DIN 32676	25	38.0	50.5	26.0	33.5	RTRI3850ID26
DIN 32676	32	12.0	50.5	32.0	9.0	RTRI1250ID32
DIN 32676	32	20.0	50.5	32.0	15.0	RTRI2050ID32
DIN 32676	32	25.0	50.5	32.0	21.0	RTRI2550ID32
DIN 32676	32	32.0	50.5	32.0	28.0	RTRI3250ID32
DIN 32676	32	38.0	50.5	32.0	33.5	RTRI3850ID32
DIN 32676	40	12.0	50.5	38.0	9.0	RTRI1250ID38
DIN 32676	40	20.0	50.5	38.0	15.0	RTRI2050ID38
DIN 32676	40	25.0	50.5	38.0	21.0	RTRI2550ID38
DIN 32676	40	32.0	50.5	38.0	28.0	RTRI3250ID38
DIN 32676	40	38.0	50.5	38.0	33.5	RTRI3850ID38
DIN 32676	50	38.0	64.0	50.0	33.5	RTRI3864ID50
DIN 32676	50	50.0	64.0	50.0	43.5	RTRI5064ID50
DIN 32676	65	63.0	91.0	66.0	58.5	RTRI6391ID66
DIN 32676	65	75.0	91.0	66.0	70.5	RTRI7591ID66
DIN 32676	80	75.0	106.0	81.0	70.5	RTRI75106ID81
DIN 32676	80	100.0	106.0	81.0	94.0	RTRI100106ID81
DIN 32676	100	100.0	119.0	100.0	94.0	RTRI100119ID100



Assembly: RK safety clamps complying with EN 14420-3 / DIN 2817 in stainless steel
HRRK swage ferrules
HRP swage ferrules
Material: stainless steel AISI 316Ti / 1.4571
Corresponding pipe system DIN 11866 series A
Other dimensions on request available

TRICLAMP COUPLINGS

TRICLAMP COUPLING WITH HOSE SHANK - INCH

Standard	Inch	For hose mm	OD Ø flange mm	ID Ø flange mm	ID hose shank mm	Reference
INCH	1/2"	12.0	25.0	9.40	9.0	RTRI1225ID9.4
INCH	3/4"	20.0	25.0	15.75	15.0	RTRI2025ID15.8
INCH	1"	25.0	50.5	22.90	21.0	RTRI2550ID22.9
INCH	1"	32.0	50.5	22.90	28.0	RTRI3250ID22.9
INCH	1"	38.0	50.5	22.90	33.5	RTRI3850ID22.9
INCH	1 1/2"	25.0	50.5	35.10	21.0	RTRI2550ID35.1
INCH	1 1/2"	32.0	50.5	35.10	28.0	RTRI3250ID35.1
INCH	1 1/2"	38.0	50.5	35.10	33.5	RTRI3850ID35.1
INCH	2"	38.0	64.0	47.80	33.5	RTRI3864ID47.8
INCH	2"	50.0	64.0	47.80	43.5	RTRI5064ID47.8
INCH	2 1/2"	50.0	77.5	60.50	43.5	RTRI5077ID60.5
INCH	2 1/2"	63.0	77.5	60.50	58.5	RTRI6377ID60.5
INCH	3"	63.0	91.0	72.10	58.5	RTRI6391ID72.1
INCH	3"	75.0	91.0	72.10	70.5	RTRI7591ID72.1
INCH	4"	100.0	119.0	97.60	94.0	RTRI100119ID97.6



Assembly: RK safety clamps in stainless steel
HRRK swage ferrules
HRP swage ferrules
Material: stainless steel AISI 316Ti / 1.4571
Corresponding pipe system DIN 11850, Inch
Other dimensions on request available

TRICLAMP COUPLING WITH HOSE SHANK - IMPERIAL

Standard	Inch	For hose mm	OD Ø flange mm	ID Ø flange mm	ID hose shank mm	Reference
IMPERIAL	1/2"	12.0	25.0	9.40	9.0	RTRI1225ID9.5
IMPERIAL	3/4"	20.0	25.0	15.75	15.0	RTRI2025ID15.75
IMPERIAL	1"	25.0	50.5	22.10	21.0	RTRI2550ID22.2
IMPERIAL	1"	32.0	50.5	22.10	28.0	RTRI3250ID22.2
IMPERIAL	1"	38.0	50.5	22.10	33.5	RTRI3850ID22.2
IMPERIAL	1 1/2"	25.0	50.5	34.80	21.0	RTRI2550ID34.9
IMPERIAL	1 1/2"	32.0	50.5	34.80	28.0	RTRI3250ID34.9
IMPERIAL	1 1/2"	38.0	50.5	34.80	33.5	RTRI3850ID34.9
IMPERIAL	2"	38.0	64.0	47.50	33.5	RTRI3864ID47.8
IMPERIAL	2"	50.0	64.0	47.50	43.5	RTRI5064ID47.6
IMPERIAL	2 1/2"	50.0	77.5	60.20	43.5	RTRI5077ID60.3
IMPERIAL	2 1/2"	63.0	77.5	60.20	58.5	RTRI6377ID60.3
IMPERIAL	3"	50.0	91.0	72.90	43.5	RTRI5091ID73.0
IMPERIAL	3"	63.0	91.0	72.90	58.5	RTRI6391ID73.0
IMPERIAL	3"	75.0	91.0	72.90	70.5	RTRI7591ID73.0
IMPERIAL	4"	100.0	119.0	97.38	94.0	RTRI100119ID97.6



Assembly: RK safety clamps in stainless steel
HRRK swage ferrules
HRP swage ferrules
Material: stainless steel AISI 316Ti / 1.4571
Corresponding pipe system DIN 11866 series C
Other dimensions on request available

TRICLAMP COUPLINGS

TRICLAMP COUPLING WITH HOSE SHANK - ISO 1127

Standard	ND	For hose mm	OD Ø flange mm	ID Ø flange mm	ID hose shank mm	Reference
ISO 1127	8	8.0	34.0	10.3	5.5	RTRI0834ID10.3
ISO 1127	8	10.0	34.0	10.3	7.0	RTRI1034ID10.3
ISO 1127	8	12.0	34.0	10.3	9.0	RTRI1234ID10.3
ISO 1127	8	20.0	34.0	10.3	15.0	RTRI2034ID10.3
ISO 1127	8	25.0	34.0	10.3	21.0	RTRI2534ID10.3
ISO 1127	10	8.0	34.0	14.0	5.5	RTRI0834ID14.0
ISO 1127	10	10.0	34.0	14.0	7.0	RTRI1034ID14.0
ISO 1127	10	12.0	34.0	14.0	9.0	RTRI1234ID14.0
ISO 1127	10	20.0	34.0	14.0	15.0	RTRI2034ID14.0
ISO 1127	10	25.0	34.0	14.0	21.0	RTRI2534ID14.0
ISO 1127	15	8.0	34.0	18.1	5.5	RTRI0834ID18.1
ISO 1127	15	10.0	34.0	18.1	7.0	RTRI1034ID18.1
ISO 1127	15	12.0	34.0	18.1	9.0	RTRI1234ID18.1
ISO 1127	15	20.0	34.0	18.1	15.0	RTRI2034ID18.1
ISO 1127	15	25.0	34.0	18.1	21.0	RTRI2534ID18.1
ISO 1127	20	12.0	50.5	23.7	9.0	RTRI1250ID23.7
ISO 1127	20	20.0	50.5	23.7	15.0	RTRI2050ID23.7
ISO 1127	20	25.0	50.5	23.7	21.0	RTRI2550ID23.7
ISO 1127	20	32.0	50.5	23.7	28.0	RTRI3250ID23.7
ISO 1127	20	38.0	50.5	23.7	33.5	RTRI3850ID23.7
ISO 1127	25	12.0	50.5	29.7	9.0	RTRI1250ID29.7
ISO 1127	25	20.0	50.5	29.7	15.0	RTRI2050ID29.7
ISO 1127	25	25.0	50.5	29.7	21.0	RTRI2550ID29.7
ISO 1127	25	32.0	50.5	29.7	28.0	RTRI3250ID29.7
ISO 1127	25	38.0	50.5	29.7	33.5	RTRI3850ID29.7
ISO 1127	32	12.0	50.5	38.4	9.0	RTRI1250ID38.4
ISO 1127	32	20.0	50.5	38.4	15.0	RTRI2050ID38.4
ISO 1127	32	25.0	50.5	38.4	21.0	RTRI2550ID38.4
ISO 1127	32	32.0	50.5	38.4	28.0	RTRI3250ID38.4
ISO 1127	32	38.0	50.5	38.4	33.5	RTRI3850ID38.4
ISO 1127	40	38.0	64.0	44.3	33.5	RTRI3864ID44.3
ISO 1127	40	50.0	64.0	44.3	43.5	RTRI5064ID44.3
ISO 1127	50	50.0	77.5	56.3	43.5	RTRI5077ID56.3
ISO 1127	50	63.0	77.5	56.3	58.5	RTRI6377ID56.3
ISO 1127	65	63.0	91.0	72.1	58.5	RTRI6391ID72.1
ISO 1127	65	75.0	91.0	72.1	70.5	RTRI7591ID72.1
ISO 1127	80	75.0	106.0	84.3	70.5	RTRI75106ID84.3
ISO 1127	80	100.0	106.0	84.3	94.0	RTRI100106ID84.3
ISO 1127	100	100.0	130.0	109.7	94.0	RTRI100130ID109.7



Assembly: RK safety clamps in stainless steel
HRRK swage ferrules
HRP swage ferrules
Material: stainless steel AISI 316Ti / 1.4571
Corresponding pipe system DIN 11866 series B
Other dimensions on request available

TRICLAMP COUPLINGS

TRICLAMP COUPLING WITH BUTT WELDING END

Standard	ND / Inch	OD tube mm	ID tube mm	OD flange mm	Reference
DIN 32676	10	13.0	10.0	34.0	RTRIL10DIN
DIN 32676	15	19.0	16.0	34.0	RTRIL15DIN
DIN 32676	20	23.0	20.0	34.0	RTRIL20DIN
DIN 32676	25	29.0	26.0	50.5	RTRIL25DIN
DIN 32676	32	35.0	32.0	50.5	RTRIL32DIN
DIN 32676	40	41.0	38.0	50.5	RTRIL40DIN
DIN 32676	50	53.0	50.0	64.0	RTRIL50DIN
INCH	1/2″	12.7	9.4	25.0	RTRIL12INCH
INCH	3/4″	19.0	15.75	25.0	RTRIL19INCH
INCH	1"	25.4	22.9	50.5	RTRIL25INCH
INCH	1.1/2″	38.1	35.1	50.5	RTRIL40INCH
INCH	2"	50.8	47.8	64.0	RTRIL50INCH
INCH	2.1/2″	63.5	60.5	77.5	RTRIL65INCH
INCH	3"	76.2	72.1	91.0	RTRIL80INCH
INCH	4"	101.6	97.6	119.0	RTRIL100INCH
IMPERIAL	1"	25.4	22.1	50.5	RTRIL25IMP
IMPERIAL	1.1/2″	38.1	34.8	50.5	RTRIL40IMP
IMPERIAL	2"	50.8	47.5	64.0	RTRIL50IMP
IMPERIAL	2.1/2″	63.5	60.2	77.5	RTRIL65IMP
IMPERIAL	3"	76.2	72.9	91.0	RTRIL80IMP
IMPERIAL	4"	101.6	97.38	119.0	RTRIL100IMP
ISO 1127	8	13.5	10.3	34.0	RTRIL08ISO
ISO 1127	10	17.2	14.0	34.0	RTRIL10ISO
ISO 1127	15	21.3	18.1	34.0	RTRIL15ISO
ISO 1127	20	26.9	23.7	50.5	RTRIL20ISO
ISO 1127	25	33.7	29.7	50.5	RTRIL25ISO
ISO 1127	32	42.4	38.4	50.5	RTRIL32ISO
ISO 1127	40	48.3	44.3	64.0	RTRIL40ISO
ISO 1127	50	60.3	56.3	77.5	RTRIL50ISO



Assembly: welding
Material: stainless steel AISI 316L - 1.4404
stainless steel AIS 316Ti - 1.4571 on request
Other dimensions on request available
*Long butt welding Triclamp available on request

TRICLAMP COUPLINGS

HEAVY DUTY CLAMP SINGLE BOLT

For flange mm	Material	Reference
25.0	Stainless steel AISI 316 - 1.4401	TRIK025
34.0	Stainless steel AISI 316 - 1.4401	TRIK034
50.5	Stainless steel AISI 316 - 1.4401	TRIK050
64.0	Stainless steel AISI 316 - 1.4401	TRIK064
77.5	Stainless steel AISI 316 - 1.4401	TRIK077
91.0	Stainless steel AISI 316 - 1.4401	TRIK091
106.0	Stainless steel AISI 316 - 1.4401	TRIK106
119.0	Stainless steel AISI 316 - 1.4401	TRIK119
130.0	Stainless steel AISI 316 - 1.4401	TRIK130



Other dimensions on request available

SOLID END CAP

Flange mm	Height mm	Material	Reference
25.0	4.7	Stainless steel AISI 316L - 1.4404	TRIP025
34.0	6.0	Stainless steel AISI 316L - 1.4404	TRIP034
50.5	6.0	Stainless steel AISI 316L - 1.4404	TRIP050
64.0	6.0	Stainless steel AISI 316L - 1.4404	TRIP064
77.5	6.0	Stainless steel AISI 316L - 1.4404	TRIP077
91.0	7.0	Stainless steel AISI 316L - 1.4404	TRIP091
106.0	8.0	Stainless steel AISI 316L - 1.4404	TRIP106
119.0	8.0	Stainless steel AISI 316L - 1.4404	TRIP119
130.0	8.0	Stainless steel AISI 316L - 1.4404	TRIP130



Other dimensions on request available



TRICLAMP COUPLINGS

SEALS - DIN 32676

Standard	ND	For flange mm	ID Ø mm	Material	Colour	Profiled / Non-profiled	Reference
DIN 32676	10	34.0	10.2	NBR	Black	Profiled	TRIXB034.0X10.2P
DIN 32676	15	34.0	16.2	NBR	Black	Profiled	TRIXB034.0X16.2P
DIN 32676	20	34.0	20.2	NBR	Black	Profiled	TRIXB034.0X20.2P
DIN 32676	25	50.5	26.2	NBR	Black	Profiled	TRIXB050.5X26.2P
DIN 32676	32	50.5	32.2	NBR	Black	Profiled	TRIXB050.5X32.2P
DIN 32676	40	50.5	38.2	NBR	Black	Profiled	TRIXB050.5X38.2P
DIN 32676	50	64.0	50.2	NBR	Black	Profiled	TRIXB064.0X50.2P
DIN 32676	65	91.0	66.2	NBR	Black	Profiled	TRIXB091.0X66.2P
DIN 32676	80	106.0	81.2	NBR	Black	Profiled	TRIXB106.0X81.2P
DIN 32676	100	119.0	100.2	NBR	Black	Profiled	TRIXB119.0X100.2P
DIN 32676	10	34.0	10.2	EPDM	Black	Profiled	TRIXE034.0X10.2P
DIN 32676	15	34.0	16.2	EPDM	Black	Profiled	TRIXE034.0X16.2P
DIN 32676	20	34.0	20.2	EPDM	Black	Profiled	TRIXE034.0X20.2P
DIN 32676	25	50.5	26.2	EPDM	Black	Profiled	TRIXE050.5X26.2P
DIN 32676	32	50.5	32.2	EPDM	Black	Profiled	TRIXE050.5X32.2P
DIN 32676	40	50.5	38.2	EPDM	Black	Profiled	TRIXE050.5X38.2P
DIN 32676	50	64.0	50.2	EPDM	Black	Profiled	TRIXE064.0X50.2P
DIN 32676	65	91.0	66.2	EPDM	Black	Profiled	TRIXE091.0X66.2P
DIN 32676	80	106.0	81.2	EPDM	Black	Profiled	TRIXE106.0X81.2P
DIN 32676	100	119.0	100.2	EPDM	Black	Profiled	TRIXE119.0X100.2P
DIN 32676	10	34.0	10.2	FPM	Black	Profiled	TRIXV034.0X10.2P
DIN 32676	15	34.0	16.2	FPM	Black	Profiled	TRIXV034.0X16.2P
DIN 32676	20	34.0	20.2	FPM	Black	Profiled	TRIXV034.0X20.2P
DIN 32676	25	50.5	26.2	FPM	Black	Profiled	TRIXV050.5X26.2P
DIN 32676	32	50.5	32.2	FPM	Black	Profiled	TRIXV050.5X32.2P
DIN 32676	40	50.5	38.2	FPM	Black	Profiled	TRIXV050.5X38.2P
DIN 32676	50	64.0	50.2	FPM	Black	Profiled	TRIXV064.0X50.2P
DIN 32676	65	91.0	66.2	FPM	Black	Profiled	TRIXV091.0X66.2P
DIN 32676	80	106.0	81.2	FPM	Black	Profiled	TRIXV106.0X81.2P
DIN 32676	100	119.0	100.2	FPM	Black	Profiled	TRIXV119.0X100.2P
DIN 32676	10	34.0	10.2	PTFE	White	Profiled	TRIXP034.0X10.2P
DIN 32676	15	34.0	16.2	PTFE	White	Profiled	TRIXP034.0X16.2P
DIN 32676	20	34.0	20.2	PTFE	White	Profiled	TRIXP034.0X20.2P
DIN 32676	25	50.5	26.2	PTFE	White	Profiled	TRIXP050.5X26.2P
DIN 32676	32	50.5	32.2	PTFE	White	Profiled	TRIXP050.5X32.2P
DIN 32676	40	50.5	38.2	PTFE	White	Profiled	TRIXP050.5X38.2P
DIN 32676	50	64.0	50.2	PTFE	White	Profiled	TRIXP064.0X50.2P
DIN 32676	65	91.0	66.2	PTFE	White	Profiled	TRIXP091.0X66.2P
DIN 32676	80	106.0	81.2	PTFE	White	Profiled	TRIXP106.0X81.2P
DIN 32676	100	119.0	100.2	PTFE	White	Profiled	TRIXP119.0X100.2P
DIN 32676	10	34.0	10.2	MVQ	Red	Profiled	TRIXS034.0X10.2P
DIN 32676	15	34.0	16.2	MVQ	Red	Profiled	TRIXS034.0X16.2P
DIN 32676	20	34.0	20.2	MVQ	Red	Profiled	TRIXS034.0X20.2P
DIN 32676	25	50.5	26.2	MVQ	Red	Profiled	TRIXS050.5X26.2P
DIN 32676	32	50.5	32.2	MVQ	Red	Profiled	TRIXS050.5X32.2P
DIN 32676	40	50.5	38.2	MVQ	Red	Profiled	TRIXS050.5X38.2P
DIN 32676	50	64.0	50.2	MVQ	Red	Profiled	TRIXS064.0X50.2P
DIN 32676	65	91.0	66.2	MVQ	Red	Profiled	TRIXS091.0X66.2P
DIN 32676	80	106.0	81.2	MVQ	Red	Profiled	TRIXS106.0X81.2P
DIN 32676	100	119.0	100.2	MVQ	Red	Profiled	TRIXS119.0X100.2P





Profiled

FDA

ADI Animal Derived Ingredient free

TRICLAMP COUPLINGS

SEALS - INCH

Standard	Inch	For flange mm	ID Ø mm	Material	Colour	Profiled / Non-profiled	Reference
INCH	1"	50.5	22.9	NBR	Black red dotted	Profiled	TRIXB050.5X22.9P
INCH	1.1/2"	50.5	35.1	NBR	Black red dotted	Profiled	TRIXB050.5X35.1P
INCH	2"	64.0	47.8	NBR	Black red dotted	Profiled	TRIXB064.0X47.8P
INCH	2.1/2"	77.5	60.5	NBR	Black red dotted	Profiled	TRIXB077.5X60.5P
INCH	3"	91.0	72.1	NBR	Black red dotted	Profiled	TRIXB091.0X72.1P
INCH	4"	119.0	97.6	NBR	Black red dotted	Profiled	TRIXB119.0X97.6P
INCH	1/2"	25.0	9.4	EPDM	Black green dotted	Profiled	TRIXE025.0X9.4P
INCH	3/4"	25.0	15.8	EPDM	Black green dotted	Profiled	TRIXE025.0X15.8P
INCH	1"	50.5	22.9	EPDM	Black green dotted	Profiled	TRIXE050.5X22.9P
INCH	1.1/2"	50.5	35.1	EPDM	Black green dotted	Profiled	TRIXE050.5X35.1P
INCH	2"	64.0	47.8	EPDM	Black green dotted	Profiled	TRIXE064.0X47.8P
INCH	2.1/2"	77.5	60.5	EPDM	Black green dotted	Profiled	TRIXE077.5X60.5P
INCH	3"	91.0	72.1	EPDM	Black green dotted	Profiled	TRIXE091.0X72.1P
INCH	4"	119.0	97.6	EPDM	Black green dotted	Profiled	TRIXE119.0X97.6P
INCH	1/2"	25.0	9.4	FPM	Black	Profiled	TRIXV025.0X9.4P
INCH	3/4"	25.0	15.8	FPM	Black	Profiled	TRIXV025.0X15.8P
INCH	1"	50.5	22.9	FPM	Black	Profiled	TRIXV050.5X22.9P
INCH	1.1/2"	50.5	35.1	FPM	Black	Profiled	TRIXV050.5X35.1P
INCH	2"	64.0	47.8	FPM	Black	Profiled	TRIXV064.0X47.8P
INCH	2.1/2"	77.5	60.5	FPM	Black	Profiled	TRIXV077.5X60.5P
INCH	3"	91.0	72.1	FPM	Black	Profiled	TRIXV091.0X72.1P
INCH	4"	119.0	97.6	FPM	Black	Profiled	TRIXV119.0X97.6P
INCH	1/2"	25.0	9.4	PTFE	White	Non-profiled	TRIXP025.0X9.4
INCH	3/4"	25.0	15.8	PTFE	White	Non-profiled	TRIXP022.0X9.7
INCH	1"	50.5	22.9	PTFE	White	Non-profiled	TRIXP050.5X22.9
INCH	1.1/2"	50.5	35.1	PTFE	White	Non-profiled	TRIXP050.5X35.1
INCH	2"	64.0	47.4	PTFE	White	Non-profiled	TRIXP064.0X47.4
INCH	2.1/2"	77.5	60.5	PTFE	White	Non-profiled	TRIXP077.5X60.5
INCH	3"	91.0	72.1	PTFE	White	Non-profiled	TRIXP091.0X72.1
INCH	4"	119.0	97.6	PTFE	White	Non-profiled	TRIXP119.0X97.6





Non-profiled

FDA

Colours are subject to change without prior notice.

TRICLAMP COUPLINGS

SEALS - ISO 1127

Standard	ND	For flange mm	ID Ø mm	Material	Colour	Profiled / Non-profiled	Reference
ISO 1127	8	34.0	10.2	Silicone	Translucent	Profiled	TRIXS034.0X10.2P
ISO 1127	10	34.0	14.2	Silicone	Translucent	Profiled	TRIXS034.0X14.2P
ISO 1127	15	34.0	18.3	Silicone	Translucent	Profiled	TRIXS034.0X18.3P
ISO 1127	20	50.5	23.9	Silicone	Translucent	Profiled	TRIXS050.5X23.9P
ISO 1127	25	50.5	29.9	Silicone	Translucent	Profiled	TRIXS050.5X29.9P
ISO 1127	32	50.5	38.6	Silicone	Translucent	Profiled	TRIXS050.5X38.6P
ISO 1127	40	64.0	44.5	Silicone	Translucent	Profiled	TRIXS064.0X44.5P
ISO 1127	50	77.5	56.5	Silicone	Translucent	Profiled	TRIXS077.5X56.5P
ISO 1127	65	91.0	72.3	Silicone	Translucent	Profiled	TRIXS091.0X72.3P
ISO 1127	80	106.0	85.1	Silicone	Translucent	Profiled	TRIXS106.0X85.1P
ISO 1127	100	130.0	110.5	Silicone	Translucent	Profiled	TRIXS130.0X110.5P
ISO 1127	8	34.0	10.2	EPDM	Black	Profiled	TRIXE034.0X10.2P
ISO 1127	10	34.0	14.2	EPDM	Black	Profiled	TRIXE034.0X14.2P
ISO 1127	15	34.0	18.3	EPDM	Black	Profiled	TRIXE034.0X18.3P
ISO 1127	20	50.5	23.9	EPDM	Black	Profiled	TRIXE050.5X23.9P
ISO 1127	25	50.5	29.9	EPDM	Black	Profiled	TRIXE050.5X29.9P
ISO 1127	32	50.5	38.6	EPDM	Black	Profiled	TRIXE050.5X38.6P
ISO 1127	40	64.0	44.5	EPDM	Black	Profiled	TRIXE064.0X44.5P
ISO 1127	50	77.5	56.5	EPDM	Black	Profiled	TRIXE077.5X56.5P
ISO 1127	65	91.0	72.3	EPDM	Black	Profiled	TRIXE091.0X72.3P
ISO 1127	80	106.0	85.1	EPDM	Black	Profiled	TRIXE106.0X85.1P
ISO 1127	100	130.0	110.5	EPDM	Black	Profiled	TRIXE130.0X110.5P
ISO 1127	8	34.0	10.2	FPM	Black	Profiled	TRIXV034.0X10.2P
ISO 1127	10	34.0	14.2	FPM	Black	Profiled	TRIXV034.0X14.2P
ISO 1127	15	34.0	18.3	FPM	Black	Profiled	TRIXV034.0X18.3P
ISO 1127	20	50.5	23.9	FPM	Black	Profiled	TRIXV050.5X23.9P
ISO 1127	25	50.5	29.9	FPM	Black	Profiled	TRIXV050.5X29.9P
ISO 1127	32	50.5	38.6	FPM	Black	Profiled	TRIXV050.5X38.6P
ISO 1127	40	64.0	44.5	FPM	Black	Profiled	TRIXV064.0X44.5P
ISO 1127	50	77.5	56.5	FPM	Black	Profiled	TRIXV077.5X56.5P
ISO 1127	65	91.0	72.3	FPM	Black	Profiled	TRIXV091.0X72.3P
ISO 1127	80	106.0	85.1	FPM	Black	Profiled	TRIXV106.0X85.1P
ISO 1127	100	130.0	110.5	FPM	Black	Profiled	TRIXV130.0X110.5P
ISO 1127	8	34.0	10.2	BIO-PRO®	Blue	Profiled	TRIXBP034.0X10.2P
ISO 1127	10	34.0	14.2	BIO-PRO®	Blue	Profiled	TRIXBP034.0X14.2P
ISO 1127	15	34.0	18.3	BIO-PRO®	Blue	Profiled	TRIXBP034.0X18.3P
ISO 1127	20	50.5	23.9	BIO-PRO®	Blue	Profiled	TRIXBP050.5X23.9P
ISO 1127	25	50.5	29.9	BIO-PRO®	Blue	Profiled	TRIXBP050.5X29.9P
ISO 1127	32	50.5	38.6	BIO-PRO®	Blue	Profiled	TRIXBP050.5X38.6P
ISO 1127	40	64.0	44.5	BIO-PRO®	Blue	Profiled	TRIXBP064.0X44.5P
ISO 1127	50	77.5	56.5	BIO-PRO®	Blue	Profiled	TRIXBP077.5X56.5P
ISO 1127	65	91.0	72.3	BIO-PRO®	Blue	Profiled	TRIXBP091.0X72.3P
ISO 1127	80	106.0	85.1	BIO-PRO®	Blue	Profiled	TRIXBP106.0X85.1P
ISO 1127	100	130.0	110.5	BIO-PRO®	Blue	Profiled	TRIXBP130.0X110.5P





Profiled

Colours are subject to change without prior notice.
GYLON BIO-PRO® is a registered trademark of Garlock Sealing Technologies.

SEALS - IMPERIAL

Standard	Inch	For flange mm	ID Ø mm	Material	Colour	Profiled / Non-profiled	Reference
IMPERIAL	1"	50.5	22.9	NBR	Black	Non-profiled	TRIXB050.5X22.9
IMPERIAL	1.1/2"	50.5	35.6	NBR	Black	Non-profiled	TRIXB050.5X35.6
IMPERIAL	2.1/2"	77.5	60.2	NBR	Black	Non-profiled	TRIXB077.5X60.2
IMPERIAL	3"	91.0	73.3	NBR	Black	Non-profiled	TRIXB09.0X73.3
IMPERIAL	4"	119.0	97.8	NBR	Black	Non-profiled	TRIXB119.0X97.8
IMPERIAL	1"	50.5	22.9	EPDM	Black	Non-profiled	TRIXE050.5X22.9
IMPERIAL	1.1/2"	50.5	35.6	EPDM	Black	Non-profiled	TRIXE050.5X35.6
IMPERIAL	2"	64.0	48.0	EPDM	Black	Non-profiled	TRIXE064X48.0
IMPERIAL	2.1/2"	77.5	60.2	EPDM	Black	Non-profiled	TRIXE077.5X60.2
IMPERIAL	3"	91.0	73.3	EPDM	Black	Non-profiled	TRIXE091X73.3
IMPERIAL	1"	50.5	22.9	PTFE	White	Non-profiled	TRIXP050.5X22.9
IMPERIAL	1.1/2"	50.5	35.6	PTFE	White	Non-profiled	TRIXP050.5X35.6
IMPERIAL	2"	64.0	48.0	PTFE	White	Non-profiled	TRIXP064X48.0
IMPERIAL	2.1/2"	77.5	60.2	PTFE	White	Non-profiled	TRIXP077.5X60.2
IMPERIAL	3"	91.0	73.3	PTFE	White	Non-profiled	TRIXP091X73.3
IMPERIAL	4"	119.0	97.8	PTFE	White	Non-profiled	TRIXP119X97.8
IMPERIAL	1"	50.5	22.9	FPM	Black	Non-profiled	TRIXV050.5X22.9
IMPERIAL	1 1/2"	50.5	35.6	FPM	Black	Non-profiled	TRIXV050.5X35.6
IMPERIAL	2"	64.0	48.0	FPM	Black	Non-profiled	TRIXV064X48.0
IMPERIAL	2 1/2"	77.5	60.2	FPM	Black	Non-profiled	TRIXV077.5X60.2
IMPERIAL	3"	91.0	73.3	FPM	Black	Non-profiled	TRIXV091X73.3
IMPERIAL	4"	119.0	97.8	FPM	Black	Non-profiled	TRIXV119X97.8





Non-profiled

Colours are subject to change without prior notice.

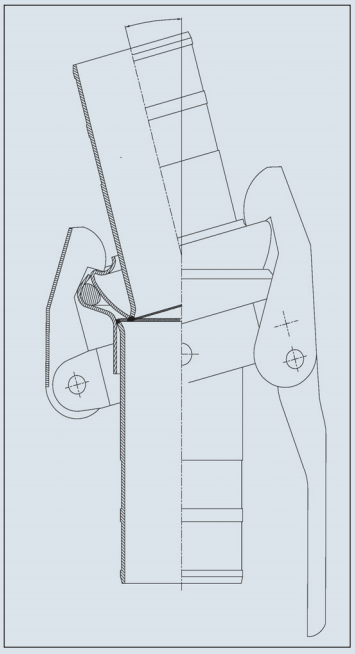
STANDARD

LMC's cardan couplings are heavy duty quick couplings used in agricultural, irrigation, cleaning and construction applications. They are most commonly used with systems carrying water, mortar, bitumen, bulk products, etc.

OPERATION

Cardan couplings consist of a male and a female section. The female section incorporates a thick o-ring seal and a lever-operated 2-claw latch. The male section is inserted into the female section and the joint closed by latching the lever over the conical head of the male section. The seal between the male and female section enables the cardan coupling to remain secure up to 15° deflection.

LMC's Cardan couplings hose shanks are designed to be used in heavy applications. This feature makes LMC's Cardan couplings more resistant to impact and wear, ensuring a longer working life.



N.B.: Cardan couplings are not interchangeable with Bauer couplings.

FEATURES



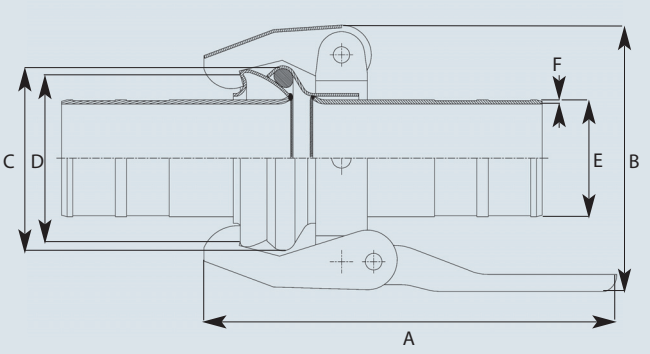
1. Specially designed serrated hose shank for a perfect binding assembly using band clamps and safety clamps
2. Extra-thick wall for longer working life
3. Thick SBR o-ring seal for a guaranteed total seal in pressure and vacuum applications
4. Deflection up to 30° when closed (-15°/+15° axis)
5. Easy single handed closure



CARDAN COUPLINGS

DIMENSIONS

ND	A MM	B MM	C MM	D MM	E MM	F MM
50	230.0	128.0	85.0	76.0	51.0	2.60
70	270.0	163.0	108.0	103.0	63.0	3.60
89	310.0	194.0	136.0	133.0	76.1	2.90
108	360.0	232.0	161.0	154.0	101.6	3.60
133	370.0	264.0	188.0	179.0	127.0	4.00
159	370.0	313.0	223.0	210.0	152.4	4.00



Dimensions are given as illustration only

APPLICATION

- Emptying tanks and reservoirs containing environmentally harmful waste products
- Transporting bulk products, such as grain, flour, feed, pellets, granulates, concrete and minerals
- Transporting water
- Pressure and suction connections to pumps



WORKING PRESSURE

ND	BAR	PSI
50	20	290
70	20	290
89	15	217
108	15	217
133	10	145
159	10	145

TEMPERATURE

-40°C / -40°F up to +80°C / +176°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Galvanized carbon steel St 37-2 (female section with steel lever)
  Stainless steel AISI 304 - EN 1.4301 (female section with steel lever)
- Seal
  SBR
  NBR, EPDM on request

ASSEMBLY

Band, bolt clamps
RK safety clamps to EN 14420-3 / DIN 2817
FLEXOLINE® safety clamp
Welding

CARDAN COUPLINGS

MALE HEAVY DUTY COUPLING WITH SERRATED HOSE SHANK

ND	For hose mm	Material	Weight/pc Kg	Reference
50	50	Carbon steel	0.48	KVS050
70	63	Carbon steel	0.88	KVS063
89	75	Carbon steel	1.62	KVS075
108	100	Carbon steel	2.19	KVS100
133	125	Carbon steel	3.62	KVS125
159	150	Carbon steel	4.30	KVS150
50	50	Stainless steel	0.45	RKVS050
70	63	Stainless steel	0.83	RKVS063
89	75	Stainless steel	1.57	RKVS075
108	100	Stainless steel	2.10	RKVS100
133	125	Stainless steel	3.50	RKVS125
159	150	Stainless steel	4.12	RKVS150



Galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301
Assembly: band or bolt clamps

FEMALE HEAVY DUTY COUPLING WITH SERRATED HOSE SHANK

ND	For hose mm	Material	Weight/pc Kg	Reference
50	50	Carbon steel	1.13	KMS050
70	63	Carbon steel	1.89	KMS063
89	75	Carbon steel	3.19	KMS075
108	100	Carbon steel	5.06	KMS100
133	125	Carbon steel	8.01	KMS125
159	150	Carbon steel	9.11	KMS150
50	50	Stainless steel	1.07	RKMS050
70	63	Stainless steel	1.77	RKMS063
89	75	Stainless steel	3.05	RKMS075
108	100	Stainless steel	4.92	RKMS100
133	125	Stainless steel	7.91	RKMS125
159	150	Stainless steel	9.00	RKMS150



Galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301
Stainless steel coupling: lever in galvanized carbon steel
Assembly: band or bolt clamps

CARDAN COUPLINGS

MALE HEAVY DUTY CARDAN COUPLING WITH SMOOTH HOSE SHANK

ND	For hose mm	Material	Weight/pc Kg	Reference
50	50	Carbon steel	0.54	KVSK050
70	63	Carbon steel	1.02	KVSK063
89	75	Carbon steel	1.42	KVSK075
108	100	Carbon steel	2.49	KVSK100
133	125	Carbon steel	4.39	KVSK125
159	150	Carbon steel	5.09	KVSK150
50	50	Stainless steel	0.50	RKVSK050
70	63	Stainless steel	0.92	RKVSK063
89	75	Stainless steel	1.30	RKVSK075
108	100	Stainless steel	2.35	RKVSK100
133	125	Stainless steel	4.12	RKVSK125
159	150	Stainless steel	5.01	RKVSK150



Galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301
Assembly: RK safety clamps complying with EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps

FEMALE HEAVY DUTY CARDAN COUPLING WITH SMOOTH HOSE SHANK

ND	For hose mm	Material	Weight/pc Kg	Reference
50	50	Carbon steel	1.21	KMSK050
70	63	Carbon steel	2.75	KMSK063
89	75	Carbon steel	3.15	KMSK075
108	100	Carbon steel	5.66	KMSK100
133	125	Carbon steel	7.82	KMSK125
159	150	Carbon steel	10.04	KMSK150
50	50	Stainless steel	1.15	RKMSK050
70	63	Stainless steel	2.60	RKMSK063
89	75	Stainless steel	3.01	RKMSK075
108	100	Stainless steel	5.55	RKMSK100
133	125	Stainless steel	7.65	RKMSK125
159	150	Stainless steel	10.00	RKMSK150



Galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301
Stainless steel coupling: lever in galvanized carbon steel
Assembly: RK safety clamps complying with EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps

CARDAN COUPLINGS

MALE WELDING PART

ND	For tube mm	Material	Weight/pc Kg	Reference
50	51.0	Carbon steel	0.12	KVRK050
70	70.0	Carbon steel	0.27	KVRK070
89	89.0	Carbon steel	0.42	KVRK089
108	108.0	Carbon steel	0.63	KVRK108
133	133.0	Carbon steel	0.81	KVRK133
159	159.0	Carbon steel	1.28	KVRK159
50	51.0	Stainless steel	0.10	RKVRK050
70	70.0	Stainless steel	0.23	RKVRK070
89	89.0	Stainless steel	0.36	RKVRK089
108	108.0	Stainless steel	0.55	RKVRK108
133	133.0	Stainless steel	0.76	RKVRK133
159	159.0	Stainless steel	1.22	RKVRK159



Non-galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301
Assembly: Welding

FEMALE WELDING PART

ND	For tube mm	Material	Weight/pc Kg	Reference
50	51.0	Carbon steel	0.76	KMRK050
70	70.0	Carbon steel	1.46	KMRK070
89	89.0	Carbon steel	1.79	KMRK089
108	108.0	Carbon steel	3.40	KMRK108
133	133.0	Carbon steel	5.14	KMRK133
159	159.0	Carbon steel	6.03	KMRK159
50	51.0	Stainless steel	0.74	RKMRK050
70	70.0	Stainless steel	1.36	RKMRK070
89	89.0	Stainless steel	1.65	RKMRK089
108	108.0	Stainless steel	3.25	RKMRK108
133	133.0	Stainless steel	5.06	RKMRK133
159	159.0	Stainless steel	5.95	RKMRK159



Non-galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301
Stainless steel coupling: lever in galvanized carbon steel
Assembly: Welding

CARDAN COUPLINGS

MALE PLUG

ND	Material	Weight/pc Kg	Reference
50	Carbon steel	0.30	KKV050
70	Carbon steel	0.42	KKV063
89	Carbon steel	0.55	KKV075
108	Carbon steel	0.86	KKV100
133	Carbon steel	1.19	KKV125
159	Carbon steel	1.70	KKV150
50	Stainless steel	0.25	RKKV050
70	Stainless steel	0.39	RKKV063
89	Stainless steel	0.50	RKKV075
108	Stainless steel	0.79	RKKV100
133	Stainless steel	1.05	RKKV125
159	Stainless steel	1.55	RKKV150



Galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301

FEMALE CAP

ND	Material	Weight/pc Kg	Reference
50	Carbon steel	1.82	KKM050
70	Carbon steel	1.53	KKM063
89	Carbon steel	2.15	KKM075
108	Carbon steel	3.65	KKM100
133	Carbon steel	5.49	KKM125
159	Carbon steel	6.68	KKM150
50	Stainless steel	1.69	RKKM050
70	Stainless steel	1.50	RKKM063
89	Stainless steel	2.01	RKKM075
108	Stainless steel	3.45	RKKM100
133	Stainless steel	5.40	RKKM125
159	Stainless steel	6.53	RKKM150



Galvanized carbon steel
Stainless steel AISI 304 - EN 1.4301
Stainless steel coupling: lever in galvanized carbon steel

MALE PART WITH FLANGE IN COMPLIANCE WITH EN 1092-1

ND	Material	Weight/pc Kg	Reference
50	Carbon steel	3.07	KF050
70	Carbon steel	3.95	KF070
89	Carbon steel	5.16	KF089
108	Carbon steel	5.84	KF108
133	Carbon steel	7.11	KF133
159	Carbon steel	10.76	KF159



Galvanized carbon steel

CARDAN COUPLINGS

FEMALE PART WITH FLANGE IN COMPLIANCE WITH EN 1092-1

ND	Material	Weight/pc Kg	Reference
50	Carbon steel	6.07	KE050
70	Carbon steel	8.10	KE070
89	Carbon steel	12.22	KE089
108	Carbon steel	13.51	KE108
133	Carbon steel	16.20	KE133
159	Carbon steel	20.59	KE159



Galvanized carbon steel

MALE REDUCING COUPLING WITH SERRATED HOSE SHANK

ND	For hose mm	Material	Weight/pc Kg	Reference
108	50	Carbon steel	1.76	KVS050100
89	63	Carbon steel	1.70	KVS063075
108	75	Carbon steel	2.05	KVS075100
89	100	Carbon steel	2.14	KVS100075



Other dimensions and materials on request
Assembly: band or bolt clamps

FEMALE REDUCING COUPLING WITH SERRATED HOSE SHANK

ND	For hose mm	Material	Weight/pc Kg	Reference
108	50	Carbon steel	4.48	KMS050100
108	75	Carbon steel	4.69	KMS075100
89	100	Carbon steel	5.01	KMS100075
108	150	Carbon steel	5.80	KMS100
133	150	Carbon steel	6.55	KMS125



Other dimensions and materials on request
Assembly: band or bolt clamps

CARDAN COUPLINGS

O-RING SEAL SBR						
ND	OD Ø mm	ID Ø mm	Height mm	Material	Weight/pc kg	Reference
50	86.0	64.0	11.0	SBR	0.03	KX050
70	110.0	87.0	11.5	SBR	0.04	KX063
89	140.0	112.0	14.0	SBR	0.08	KX075
108	160.0	124.0	18.0	SBR	0.15	KX100
133	190.0	146.0	22.0	SBR	0.27	KX125
159	220.0	180.0	20.0	SBR	0.26	KX150



SBR = Styrene Butadiene Rubber
NBR, EPDM on request

Other Cardan couplings on request available



Male-male reversing coupling
Type: KDVT...



Female-female reversing coupling
Type: KDMT...



Female-male reversing coupling
Type: KGMKV...



LINING SOLUTIONS FOR INDUSTRIAL HOSE COUPLINGS

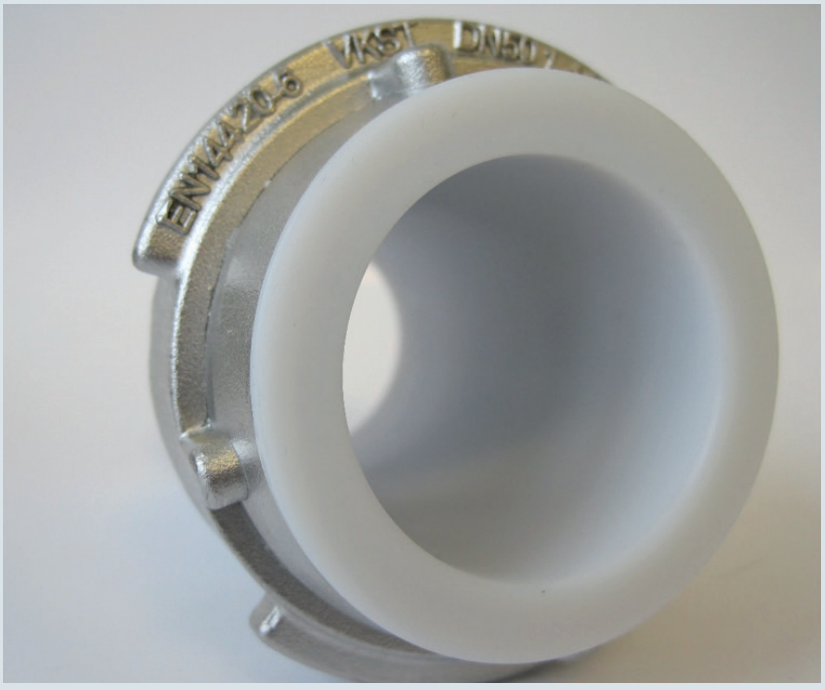
For many years LMC manufactures his own PTFE lined couplings. Whether you are looking for a lining technology resistant to most of the aggressive acids and alkalis used in the chemical, pharmaceutical, food- and beverage and semi-conductor industry (CHEM2 white PTFE lined couplings) and/or need them to be antistatic (CHEM3 black PTFE lined couplings), we can produce them in-house!





Where conventional materials like brass, bronze, aluminum and even stainless steel or polypropylene are sometimes unsatisfactory in chemical resistance and/or working pressure, stainless steel couplings with Chemaline are often the perfect technical solution.

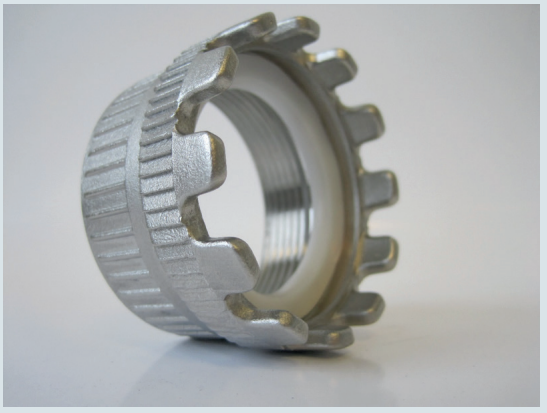
Hose couplings provided with Chemaline technology have a smooth, void-free surface that prevent contaminants from adhering and makes cleaning processes easier.

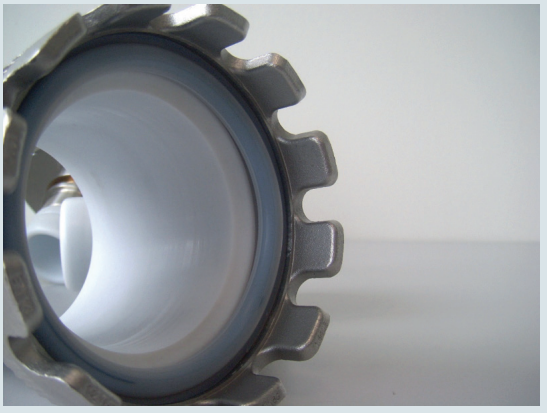




THE ADVANTAGES OF USING PTFE LINED COUPLINGS:

- Low friction: moving parts that are PTFE lined will slide with ease, causing less heat, less wear / tear and reducing fire risk. PTFE's coefficient of friction is the third-lowest of any known solid material;
- Self-cleaning: PTFE is a non-stick material, so dirt won't stick to it;
- Effective at a wide range of temperatures: PTFE can handle extremes of temperature that are suitable for many applications. It is effective at continuous surface temperatures up to 260°C and much higher temperatures can be sustained over shorter periods;
- Long-term weatherability: PTFE is an extremely durable material. For example, it is not affected by ultraviolet and is resistant to oxidation, discoloration and embrittlement;
- Non-flammability: PTFE offers extraordinary resistance to high temperature and flames because it has a very high melting point and auto-ignition temperature;
- Chemical resistance to corrosive reagents: this means that most chemicals don't affect it and so it's the best choice for most industries. It's often used as a gasket where aggressive chemicals are used;
- Great electrical properties: PTFE offers high electrical resistance and dielectric strength.





On the next pages you see an overview of our current product range, but we already made quite some specials too. Don't hesitate to ask us for your more complex products too!

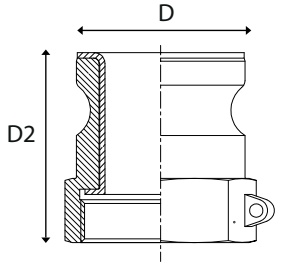




CHEMALINE 2000 - Cam&Groove EN 14420-7/DIN2828

TYPE A: ADAPTOR FEMALE THREADED WITH THREAD SEAL

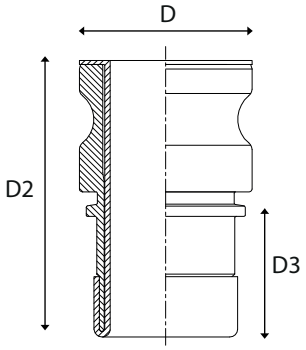
ND	Inch	Thread EN ISO 228-1	Thread seal	D +- 0,1	D 2 min	Reference
20	3/4"	G 3/4	PTFE	32,1	35,4	VLAR019DCHEM2
25	1"	G 1	PTFE	36,7	49,3	VLAR025DCHEM2
32	1.1/4"	G 1.1/4	PTFE	45,5	57,1	VLAR032DCHEM2
40	1.1/2"	G 1.1/2	PTFE	53,4	62,7	VLAR038DCHEM2
50	2"	G 2	PTFE	63,0	71,0	VLAR050DCHEM2
65	2.1/2"	G 2.1/2	PTFE	75,8	75,2	VLAR063DCHEM2
80	3"	G 3	PTFE	91,5	78,8	VLAR075DCHEM2
100	4"	G4	PTFE	119,5	80,3	VLAR100DCHEM2



Coupling standard: EN 14420-7 / DIN 2828
Female thread: EN ISO 228-1 BSP
Incorporated thread seal during lining process
Material coupling: stainless steel AISI 316/1.4401

TYPE E: ADAPTOR WITH SMOOTH HOSE SHANK

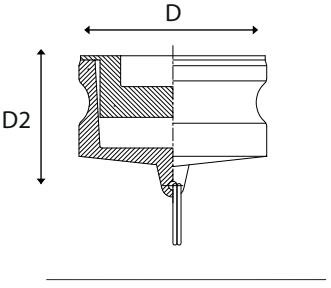
ND	Inch	For hose mm	D +- 0,1	D 2 min	D3 min	Reference
20	3/4"	19	32,1	68,5	34,0	VLER019DCHEM2
25	1"	25	36,7	76,5	34,0	VLER025DCHEM2
32	1.1/4"	32	45,5	83,0	34,0	VLER032DCHEM2
40	1.1/2"	38	53,4	84,5	34,0	VLER038DCHEM2
50	2"	50	63,0	97,5	40,0	VLER050DCHEM2
65	2.1/2"	63	75,8	113,5	52,0	VLER063DCHEM2
80	3"	75	91,5	119,0	56,0	VLER075DCHEM2
100	4"	100	119,5	161,5	80,5	VLER100DCHEM2



Coupling standard: EN 14420-7 / DIN 2828
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see chapter D)
Material coupling: stainless steel AISI 316/1.4401

TYPE DP: MALE DUST PLUG

ND	Inch	D +- 0,1	D 2 min	Reference
20	3/4"	32,1	37,0	VLPR019DCHEM2
25	1"	36,7	45,0	VLPR025DCHEM2
32	1.1/4"	45,5	52,0	VLPR032DCHEM2
40	1.1/2"	53,4	53,0	VLPR038DCHEM2
50	2"	63,0	59,0	VLPR050DCHEM2
65	2.1/2"	75,8	62,0	VLPR063DCHEM2
80	3"	91,5	64,0	VLPR075DCHEM2
100	4"	119,5	66,0	VLPR100DCHEM2

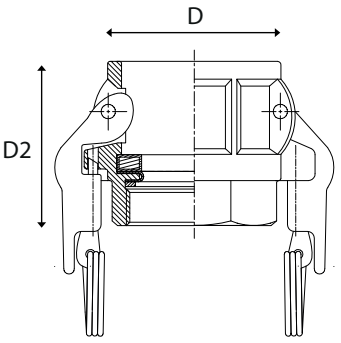


Coupling standard: Federal Mil A-A59326-A / EN 14420-7 / DIN 2828
Material coupling: stainless steel AISI 316/1.4401

CHEMALINE 2000 - Cam&Groove
EN 14420-7/DIN2828

TYPE D: COUPLER FEMALE THREADED WITH THREAD SEAL

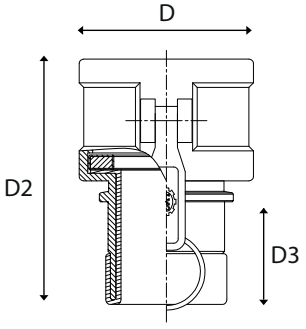
ND	Inch	Thread EN ISO 228-1	Thread seal	D +- 0,1	D 2 min	Reference
20	3/4"	G 3/4	PTFE	32,4	45,0	VLDR019DCHEM2
25	1"	G 1	PTFE	37,3	53,0	VLDR025DCHEM2
32	1.1/4"	G 1.1/4	PTFE	46,0	59,0	VLDR032DCHEM2
40	1.1/2"	G 1.1/2	PTFE	54,0	65,0	VLDR038DCHEM2
50	2"	G 2	PTFE	63,8	73,0	VLDR050DCHEM2
65	2.1/2"	G 2.1/2	PTFE	76,5	77,5	VLDR063DCHEM2
80	3"	G 3	PTFE	92,2	81,0	VLDR075DCHEM2
100	4"	G4	PTFE	120,3	85,5	VLDR100DCHEM2



Coupling standard: EN 14420-7 / DIN 2828
Female thread: EN ISO 228-1 BSP
Incorporated thread seal during lining process
Material coupling: stainless steel AISI 316/1.4401
Material coupler seal: open envelope seal PTFE / EPDM type VLXP ...

TYPE C: COUPLER WITH SMOOTH HOSE SHANK

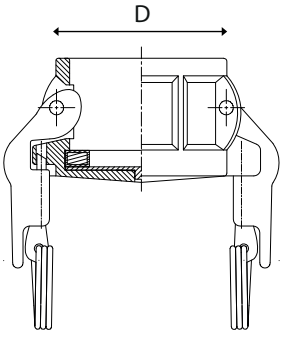
ND	Inch	For hose mm	D +- 0,1	D 2 min	D3 min	Reference
20	3/4"	19	32,4	76,0	34,0	VLCR019DCHEM2
25	1"	25	37,3	82,0	34,0	VLCR025DCHEM2
32	1.1/4"	32	46,0	88,0	34,0	VLCR032DCHEM2
40	1.1/2"	38	54,0	90,0	34,0	VLCR038DCHEM2
50	2"	50	63,8	103,0	40,0	VLCR050DCHEM2
65	2.1/2"	63	76,5	119,5	52,0	VLCR063DCHEM2
80	3"	75	92,2	125,0	56,0	VLCR075DCHEM2
100	4"	100	120,3	169,5	80,5	VLCR100DCHEM2



Coupling standard: EN 14420-7 / DIN 2828
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)
Material coupling: stainless steel AISI 316/1.4401
Material coupler seal: open envelope seal PTFE / EPDM type VLXP ...

TYPE DC: FEMALE DUST CAP

ND	Inch	D +- 0,1 mm	Reference
20	3/4"	32,4	VLKR019DCHEM2
25	1"	37,3	VLKR025DCHEM2
32	1.1/4"	46,0	VLKR032DCHEM2
40	1.1/2"	54,0	VLKR038DCHEM2
50	2"	63,8	VLKR050DCHEM2
65	2.1/2"	76,5	VLKR063DCHEM2
80	3"	92,2	VLKR075DCHEM2
100	4"	120,3	VLKR100DCHEM2

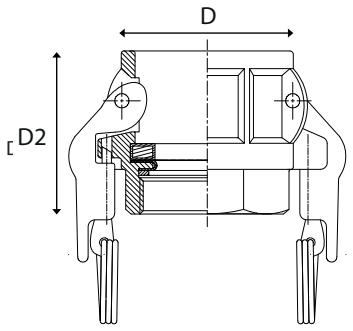


Coupling standard: Federal Mil A-A59326-A
Material coupling: stainless steel AISI 316/1.4401
Material coupler seal: open envelope seal PTFE / EPDM type VLXP ...

CHEMALINE 2000 - Cam&Groove EN 14420-7/DIN2828

TYPE D: COUPLER FEMALE THREADED WITH THREAD SEAL

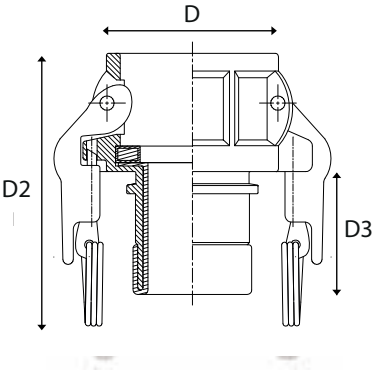
ND	Inch	Thread EN ISO 228-1	Thread seal	D +- 0,1	D 2 min	Reference
20	3/4"	G 1/2	PTFE	32,0	48,0	VLDR019DSAFCHEM2
25	1"	G 1	PTFE	37,0	57,0	VLDR025DSAFCHEM2
32	1.1/4"	G 1.1/4	PTFE	46,0	63,0	VLDR032DSAFCHEM2
40	1.1/2"	G 1.1/2	PTFE	54,0	68,0	VLDR038DSAFCHEM2
50	2"	G 2	PTFE	64,0	72,0	VLDR050DSAFCHEM2
65	2.1/2"	G 2.1/2	PTFE	77,0	79,0	VLDR063DSAFCHEM2
80	3"	G 3	PTFE	92,2	81,0	VLDR075DSAFCHEM2
100	4"	G 4	PTFE	120,0	84,0	VLDR100DSAFCHEM2



Coupling standard: EN 14420-7 / DIN 2828
Female thread: EN ISO 228-1 BSP
Incorporated thread seal during lining process
Material coupling: stainless steel AISI 316/1.4401
Material coupler seal: open envelope seal PTFE / EPDM type VLXP ...

TYPE C: COUPLER WITH SMOOTH HOSE SHANK

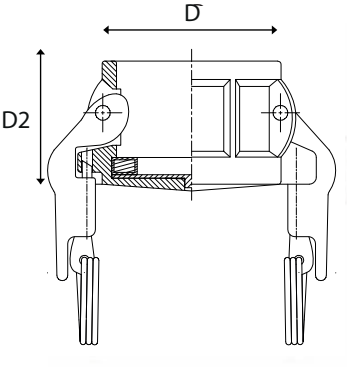
ND	Inch	For hose mm	D +- 0,1	D 2 min	D3 min	Reference
20	3/4"	19	32,0	79,0	34,0	VLCR019DSAFCHEM2
25	1"	25	37,0	86,0	34,0	VLCR025DSAFCHEM2
32	1.1/4"	32	46,0	92,0	34,0	VLCR032DSAFCHEM2
40	1.1/2"	38	54,0	93,0	34,0	VLCR038DSAFCHEM2
50	2"	50	64,0	102,0	40,0	VLCR050DSAFCHEM2
65	2.1/2"	63	77,0	121,0	52,0	VLCR063DSAFCHEM2
80	3"	75	92,2	125,0	56,0	VLCR075DSAFCHEM2
100	4"	100	120,0	168,0	80,5	VLCR100DSAFCHEM2



Coupling standard: EN 14420-7 / DIN 2828
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)
Material coupling: stainless steel AISI 316/1.4401
Material coupler seal: open envelope seal PTFE / EPDM type VLXP ...

TYPE DC: FEMALE DUST CAP

ND	Inch	D +- 0,1	D 2 min	Reference
20	3/4"	32,0	33,0	VLKR019DSAFCHEM2
25	1"	37,0	40,0	VLKR025DSAFCHEM2
32	1.1/4"	46,0	46,0	VLKR032DSAFCHEM2
40	1.1/2"	54,0	46,0	VLKR038DSAFCHEM2
50	2"	64,0	49,0	VLKR050DSAFCHEM2
65	2.1/2"	77,0	51,0	VLKR063DSAFCHEM2
80	3"	92,2	56,0	VLKR075DSAFCHEM2
100	4"	120,0	56,0	VLKR100DSAFCHEM2



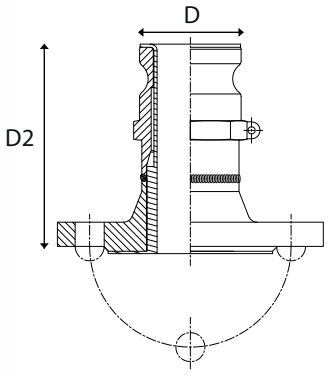
Coupling standard: Federal Mil A-A59326-A / EN 14420-7 / DIN 2828
Material coupling: stainless steel AISI 316/1.4401
Material coupler seal: open envelope seal PTFE / EPDM type VLXP ...

CHEMALINE 2000 - Cam&Groove
EN 14420-7/DIN2828

TYPE AF: ADAPTOR WITH FIXED FLANGE IN COMPLIANCE WITH EN/DIN

ND	Inch	Welding neck flange	D +- 0,1	D 2 min	Reference
20	3/4"	EN 1092-1 - PN40	32,1	95,0	VLAFDR019DCHEM2
25	1"	EN 1092-1 - PN40	36,7	105,0	VLAFDR025DCHEM2
32	1.1/4"	EN 1092-1 - PN40	45,5	114,0	VLAFDR032DCHEM2
40	1.1/2"	EN 1092-1 - PN40	53,4	119,0	VLAFDR038DCHEM2
50	2"	EN 1092-1 - PN40	63,0	129,0	VLAFDR050DCHEM2
65	2.1/2"	EN 1092-1 - PN40	75,8	133,0	VLAFDR063DCHEM2
80	3"	EN 1092-1 - PN40	91,5	144,0	VLAFDR075DCHEM2
100	4"	EN 1092-1 - PN40	119,5	155,0	VLAFDR100DCHEM2

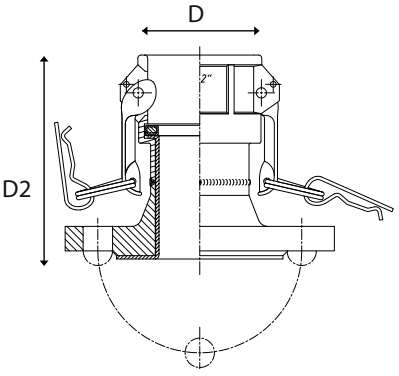
Coupling standard: EN 14420-7 / DIN 2828
Flange standard: EN 1092-1 / type 11
Incorporated flange gasket during the lining process
Material coupling: stainless steel AISI 316/1.4401



TYPE DF: COUPLER WITH FIXED FLANGE IN COMPLIANCE WITH EN/DIN

ND	Inch	Welding neck flange	D +- 0,1	D 2 min	Reference
20	3/4"	EN 1092-1 - PN40	32,4	90,0	VLDFDR019DCHEM2
25	1"	EN 1092-1 - PN40	37,3	96,0	VLDFDR025DCHEM2
32	1.1/4"	EN 1092-1 - PN40	46,0	111,0	VLDFDR032DCHEM2
40	1.1/2"	EN 1092-1 - PN40	54,0	115,0	VLDFDR038DCHEM2
50	2"	EN 1092-1 - PN40	63,8	122,0	VLDFDR050DCHEM2
65	2.1/2"	EN 1092-1 - PN40	76,5	125,0	VLDFDR063DCHEM2
80	3"	EN 1092-1 - PN40	92,2	132,0	VLDFDR075DCHEM2
100	4"	EN 1092-1 - PN40	120,3	137,0	VLDFDR100DCHEM2

Coupling standard: EN 14420-7 / DIN 2828
Flange standard: EN 1092-1 /type 11
Incorporated flange gasket during the lining process
Material coupling: stainless steel AISI 316/1.4401



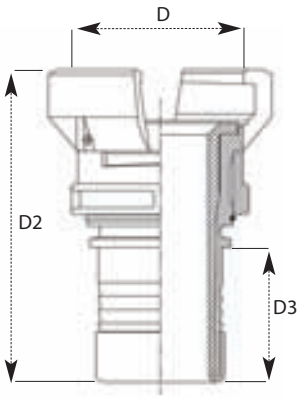


CHEMALINE 2000 - Guillemin
EN 14420-8/NF E 29-572

SERRATED HOSE SHANK WITH LOCKING RING

ND	Inch	For hose mm	D	D 2 min	D3 min	Reference
40	1.1/2″	38	55,0	104,0	35,5	RGSG038PTFE
50	2″	50	69,0	135,0	57,0	RGSG050PTFE
50	2″	55	69,0	115,0	46,0	RGSG055PTFE
65	2.1/2″	65	84,0	129,0	51,5	RGSG065PTFE
80	3″	75	103,0	169,0	77,0	RGSG075PTFE
80	3″	90	103,0	150,0	70,0	RGSG090PTFE
100	4″	100	123,0	182,0	85,0	RGSG100PTFE

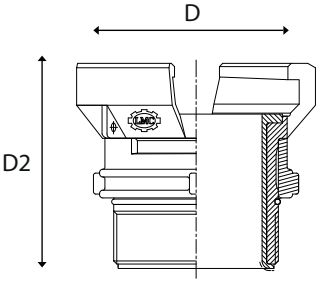
Coupling standard: NF E 29-572
Assembly: band clamps, ferrules, safety clamps
Incorporated seal during the lining process
Material coupling: stainless steel AISI 316 / 1.4401



MALE THREADED

ND	Inch	Thread EN ISO 228-1	D	D 2 min	Reference
40	1.1/2″	G 1.1/2	55,0	75,0	RGMG038CHEM2
50	2″	G 2	69,0	90,0	RGMG050CHEM2
65	2.1/2″	G 2.1/2	69,0	90,0	RGMG065CHEM2
80	3″	G 3	84,0	109,0	RGMG080CHEM2
100	4″	G 4	103,0	109,0	RGMG100CHEM2

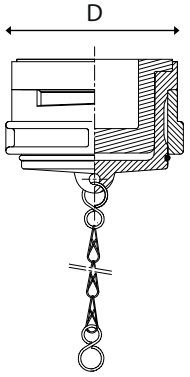
Coupling standard: EN 14420-8 / NF E 29-572
Male thread EN ISO 228-1 BSP
Incorporated seal during the lining process
Material coupling: stainless steel AISI 316 / 1.4401



PLUG WITH LOCKING RING

ND	Inch	D	Reference
40	1.1/2″	54,0	RGPG038CHEM2
50	2″	68,0	RGPG050CHEM2
50	2.1/2″	68,0	RGPG065CHEM2
65	3″	83,0	RGPG080CHEM2
80	4″	101,0	RGPG100CHEM2

Coupling standard: EN 14420-8 / NF E 29-572
Incorporated seal during the lining process
Material coupling: stainless steel AISI 316 / 1.4401

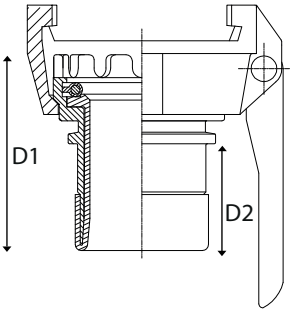


CHEMALINE 2000 - TW
EN14420-6/DIN28450

TYPE MKST: FEMALE PART WITH LOCKING RING AND SMOOTH HOSE SHANK

ND	Inch	For hose mm	D 1 min	D 2 min	Monoblock	Reference
50	2"	38	92,0	34,0	No	MKSTRR038050CHEM2
50	2"	50	75,0	40,0	Yes	MKSTRR050CHEM2
80	3"	50	112,0	40,0	No	MKSTRR050080CHEM2
80	3"	75	102,0	56,0	Yes	MKSTRR080CHEM2

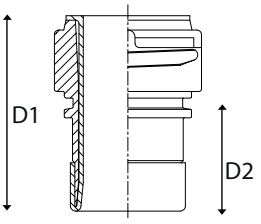
Coupling standard: EN 14420-6 / DIN 28450
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)
Material seal: closed enveloppe seal PTFE / FPM
Material coupling: stainless steel AISI 316 / 1.4408



TYPE VKST: MALE PART WITH LOCKING RING AND SMOOTH HOSE SHANK

ND	Inch	For hose mm	D 1 min	D 2 min	Monoblock	Reference
50	2"	38	90,0	34,0	No	VKSTR038050CHEM2
50	2"	50	87,0	40,0	Yes	VKSTR050CHEM2
80	3"	50	108,0	40,0	No	VKSTR050080CHEM2
80	3"	75	115,0	56,0	Yes	VKSTR080CHEM2

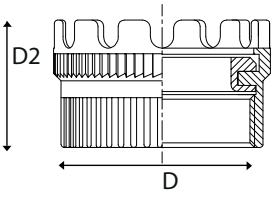
Coupling standard: EN 14420-6 / DIN 28450
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see chapter D)
Material coupling: stainless steel AISI 316 / 1.4408



TYPE MKV: CROWN PART FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Thread seal	D 0 mm 0,5 mm	D2 min	Reference
50	2"	G 2	PTFE	69,7	40,5	MKVR050CHEM2
80	3"	G 3	PTFE	101	52,5	MKVR080CHEM2

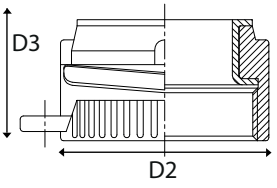
Coupling standard: EN 14420-6 / DIN 28450
Material seal: closed enveloppe seal PTFE / FPM
Incorporated thread seal during the lining process
Material coupling: stainless steel AISI 316 / 1.4401



TYPE VK: MALE PART - FEMALE THREADED WITH THREAD SEAL

ND	Inch	Thread EN ISO 228-1	Thread seal	D 2 +/- 0,5 mm	D 3 min +/- 1mm	Reference
50	2"	G 2	PTFE	67,0	39,0	VKR050CHEM2
80	3"	G 3	PTFE	100,0	48,0	VKR080CHEM2

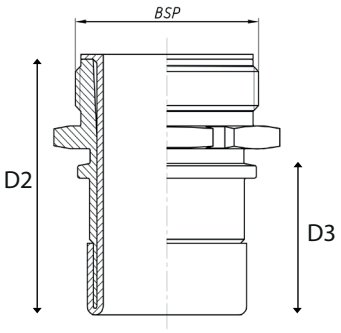
Coupling standard: EN 14420-6 / DIN 28450
Incorporated thread seal during the lining process
Material coupling: stainless steel AISI 316 / 1.4401



CHEMALINE 2000 - Screw hose EN 14420-5

MALE THREADED WITH SMOOTH HOSE SHANK

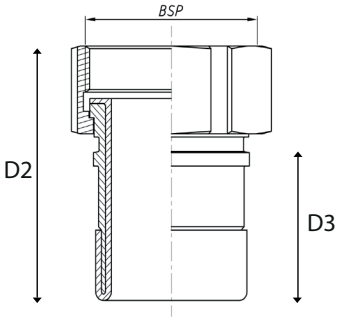
ND	Inch	For hose mm	Thread EN ISO 228-1	D 2 min	D3 min	Reference
20	3/4"	19	G 3/4	62,0	34,0	RRM019CHEM2
25	1"	25	G 1	63,0	34,0	RRM025CHEM2
32	1.1/4"	32	G 1.1/4	63,5	34,0	RRM032CHEM2
40	1.1/2"	38	G 1.1/2	66,5	34,0	RRM038CHEM2
50	2"	50	G 2	75,5	40,0	RRM050CHEM2
65	2.1/2"	63	G 2.1/2	94,5	52,0	RRM063CHEM2
75	3"	75	G 3	97,5	56,0	RRM075CHEM2
100	4"	100	G 4	131,0	80,5	RRM100CHEM2



Coupling standard: EN 14420-8/ DIN 2817
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3 / DIN 2817, FLEXOLINE safety clamps (see chapter D)
Material coupling: stainless steel AISI 316 / 1.4401

FEMALE THREADED WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Thread EN ISO 228-1	D 2 min	D3 min	Reference
20	3/4"	19	G 3/4	59,0	34,0	RRV019CHEM2
25	1"	25	G 1	62,0	34,0	RRV025CHEM2
32	1.1/4"	32	G 1,1/4	62,0	34,0	RRV032CHEM2
40	1.1/2"	38	G 1.1/2	67,0	34,0	RRV038CHEM2
50	2"	50	G 2	78,0	40,0	RRV050CHEM2
65	2.1/2"	63	G 2.1/2	93,0	52,0	RRV063CHEM2
75	3"	75	G 3	101,0	56,0	RRV075CHEM2
100	4"	100	G 4	139,0	80,5	RRV100CHEM2

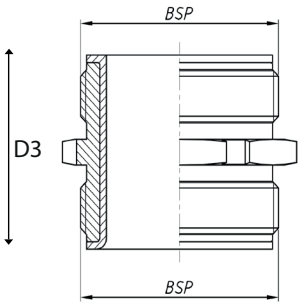


Coupling standard: EN 14420-8/ DIN 2817
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3 / DIN 2817, FLEXOLINE safety clamps (see chapter D)
Material coupling: stainless steel AISI 316 / 1.4401
Incorporated seal during the lining process

CHEMALINE 2000 - Nipples

MALE - MALE DOUBLE NIPPLE

Male thread EN ISO 228-1	Male thread EN ISO 228-1	SW mm	Total lenght coupling	D3 min	Reference
G 3/4	G 3/4	24	27	34.0	RUMM019019CHEM2
G 1	G 1	37	37	34.0	RUMM025025CHEM2
G 1.1/4	G 1.1/4	46	39	34.0	RUMM032032CHEM2
G 1.1/2	G 1.1/2	55	45	34.0	RUMM038038CHEM2
G 2	G 2	65	50	40.0	RUMM050050CHEM2
G 2.1/2	G 2.1/2	85	57	52.0	RUMM063063CHEM2
G 3	G 3	95	56	56.0	RUMM075075CHEM2
G 4	G 4	124	60	80.5	RUMM100100CHEM2



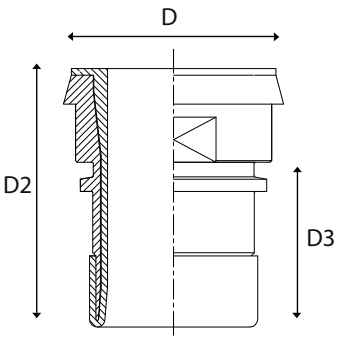
Material coupling: stainless steel AISI 316 / 1.4401



CHEMALINE 2000 - Food Couplings DIN 11851

FEMALE COUPLING WITH SMOOTH HOSE SHANK WITHOU NUT

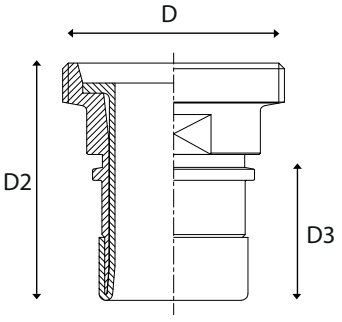
ND	Inch	For hose mm	D	D 2 min	D 3 min	Reference
20	3/4"	19	36,0	68,0	34,0	DKVS019CHEM2
25	1"	25	44,0	70,0	34,0	DKVS025CHEM2
32	1.1/4"	32	50,0	70,0	34,0	DKVS032CHEM2
40	1.1/2"	38	56,0	70,0	34,0	DKVS038CHEM2
40	1.1/2"	40	56,0	70,0	34,0	DKVS040CHEM2
50	2"	50	68,0	78,0	40,0	DKVS050CHEM2
65	2.1/2"	63	86,0	103,0	52,0	DKVS063CHEM2
65	2.1/2"	65	86,0	103,0	52,0	DKVS065CHEM2
80	3"	75	100,0	121,0	56,0	DKVS075CHEM2
80	3"	80	100,0	121,0	56,0	DKVS080CHEM2
100	4"	100	121,0	140,0	80,5	DKVS100CHEM2



Coupling standard: DIN 11851
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see chapter D)
Material coupling: stainless steel AISI 316 / 1.4401

MALE COUPLING WITH SMOOTH HOSE SHANK WITHOU NUT

ND	Inch	For hose mm	D Thread DIN 405/1	D 2 min	D 3 min	Reference
20	3/4"	19	Rd 44 x 1/6"	74,0	34,0	DKM019CHEM2
25	1"	25	Rd 52 x 1/6"	74,0	34,0	DKM025CHEM2
32	1.1/4"	32	Rd 58 x 1/6"	74,0	34,0	DKM032CHEM2
40	1.1/2"	38	Rd 65 x 1/6"	74,0	33,5	DKM038CHEM2
40	1.1/2"	40	Rd 65 x 1/6"	74,0	33,5	DKM040CHEM2
50	2"	50	Rd 78 x 1/6"	80,5	40,0	DKM050CHEM2
65	2.1/2"	63	Rd 95 x 1/6"	107,0	52,0	DKM063CHEM2
65	2.1/2"	65	Rd 95 x 1/6"	107,0	52,0	DKM065CHEM2
80	3"	75	Rd 110 x 1/6"	127,5	56,0	DKM075CHEM2
80	3"	80	Rd 110 x 1/4"	127,5	56,0	DKM080CHEM2
100	4"	100	Rd 130 x 1/4"	144,0	80,5	DKM100CHEM2

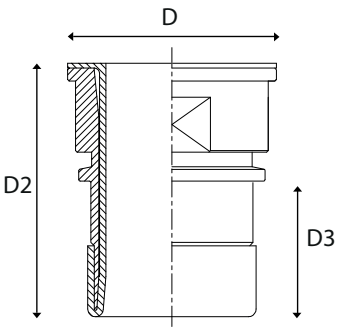


Coupling standard: DIN 11851
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see chapter D)
Material coupling: stainless steel AISI 316 / 1.4401
Incorporated seal during the lining process

CHEMALINE 2000 - Food Couplings
SMS 1145

FEMALE COUPLING WITH SMOOTH HOSE SHANK WITHOUT NUT

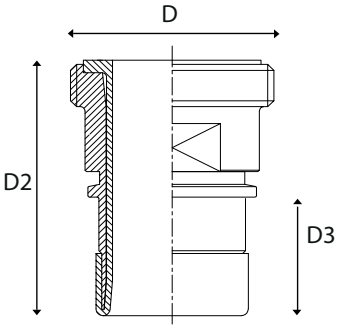
ND	Inch	For hose mm	D	D 2 min	D 3 min	Reference
1″	25	25	35,5	59,0	34,0	SMSV025DZMCHEM2
1.1/4″	32	32	42,5	59,0	34,0	SMSV032DZMCHEM2
1.1/2″	38	38	55,0	67,5	34,0	SMSV038DZMCHEM2
2″	51	50	65,0	75,6	40,0	SMSV050DZMCHEM2
2.1/2″	63,5	63	80,0	100,0	52,0	SMSV063DZMCHEM2
3″	76	75	93,0	115,0	56,0	SMSV075DZMCHEM2
4″	101,6	100	127,0	122,0	80,5	SMSV100DZMCHEM2



Coupling standard: SMS 1145
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)
Material coupling: stainless steel AISI 316 / 1.4401

MALE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Thread DIN 405/1	D 2 min	D 3 min	Reference
1″	25	25	RD 40 x 1/6″	68,0	34,0	SMSM025DCHEM2
1.1/4″	32	32	RD 48 x 1/6″	71,0	34,0	SMSM032DCHEM2
1.1/2″	38	38	RD 60 x 1/6″	80,0	33,5	SMSM038DCHEM2
2″	51	50	RD 70 x 1/6″	87,0	40,0	SMSM050DCHEM2
2.1/2″	63,5	63	RD 85 x 1/6″	111,0	52,0	SMSM063DCHEM2
3″	76	75	RD 98 x 1/6″	124,5	56,0	SMSM075DCHEM2
4″	101,6	100	RD 132 x 1/6″	150,0	80,5	SMSM100DCHEM2

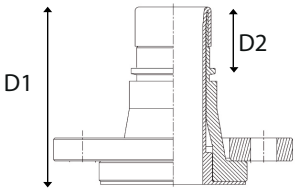


Coupling standard: SMS 1145
Shank standard: EN 14420-2 / DIN 2817
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)
Material coupling: stainless steel AISI 316 / 1.4401
Incorporated seal during the lining process

CHEMALINE 2000 - Flange Couplings EN 1442-4

SWIVEL FLANGE COUPLING WITH SMOOTH HOSE SHANK

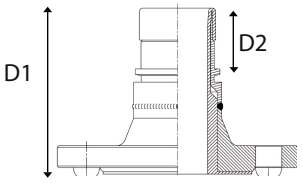
ND	Inch	Flange pressure class	For hose mm	D1	D2	Reference
20	3/4"	EN 1092-1 - PN40	19	90,0	34,0	RRFLG019CHEM2
25	1"	EN 1092-1 - PN40	25	90,0	34,0	RRFLG025CHEM2
32	1.1/4"	EN 1092-1 - PN40	32	90,0	34,0	RRFLG032CHEM2
40	1.1/2"	EN 1092-1 - PN40	38	91,0	33,5	RRFLG038CHEM2
50	2"	EN 1092-1 - PN40	50	107,0	40,0	RRFLG050CHEM2
65	2.1/2"	EN 1092-1 - PN40	63	120,0	52,0	RRFLG063CHEM2
80	3"	EN 1092-1 - PN40	75	129,0	56,0	RRFLG075CHEM2
100	4"	EN 1092-1 - PN40	100	169,0	80,5	RRFLG100CHEM2



Swivel flange: EN 1092-1 - type 04
Swivel flange according to ASTM A 182 150/300 lbs on request available
Shank standard: EN 14420-2 / DIN 2817
Material coupling: stainless steel AISI 316 / 1.4401
Incorporated flange gasket during the lining process

FIXED FLANGE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	Flange pressure class	For hose mm	D1	D2	Reference
20	3/4"	EN 1092-1 - PN40	19	88,0	34,0	RRFVG019CHEM2
25	1"	EN 1092-1 - PN40	25	88,0	34,0	RRFVG025CHEM2
32	1.1/4"	EN 1092-1 - PN40	32	90,0	34,0	RRFVG032CHEM2
40	1.1/2"	EN 1092-1 - PN40	38	93,0	34,0	RRFVG038CHEM2
50	2"	EN 1092-1 - PN40	50	107,0	40,0	RRFVG050CHEM2
65	2.1/2"	EN 1092-1 - PN40	63	120,0	52,0	RRFVG063CHEM2
80	3"	EN 1092-1 - PN40	75	129,0	56,0	RRFVG075CHEM2
100	4"	EN 1092-1 - PN40	100	171,0	80,5	RRFVG100CHEM2



Welding neck flange: EN 1092-1 - Type 11
ASTM A 182 150/300 lbs on request available
Shank standard: EN 14420-2 / DIN 2817
Material coupling: stainless steel AISI 316 / 1.4401
Incorporated flange gasket during the lining process

B

THREADED COUPLINGS

B.1. Screw hose couplings
B.2. Nipples
B.3. Food DIN couplings
B.4. Food SMS couplings
B.5. Steam couplings
B.6. DINBO steam couplings
B.7. Rotapoint® swivel couplings

SCREW HOSE COUPLINGS

STANDARD

LMC's screw hose couplings with a smooth hose shank comply with EN 14420-5 / DIN 2817.

OPERATION

Screw hose couplings are used to connect hoses with male or female BSP, BSPT or NPT threaded couplings. The hose shank can be divided in 3 types:

1. Screw hose couplings with a smooth hose shank are designed in compliance with EN 14420-5 / DIN 2817. The hose shank complies with EN 14420-2. The EN 14420-2 / DIN 2817 standard refers to coupling assemblies using RK safety clamps complying with EN 14420-3 / DIN 2817.
2. Screw hose couplings with serrated hose shank are used for worm drive clamp assemblies.
3. Screw hose couplings with serrated hose shank and collar can be used with worm drive clamps.
   (Available on request)

The parallel BSP sealing thread used as standard in screw hose couplings complies with EN ISO 228-1. A pressure-tight joint is obtained by using a flat seal. LMC screw hose couplings are easy to assemble by hand or using a wrench.

N.B.: Screw hose couplings are not interchangeable with steam hose couplings, due to differences in application and overall dimensions.

APPLICATION

To connect rubber, thermoplastic and plastic hoses.

WORKING PRESSURE

25 bar / 362 psi

TEMPERATURE

-30°C / -22°F up to +300°C / 572°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Stainless steel AISI 316 / 1.4401
  Brass

- Seal
  PU for brass screw hose couplings
  PTFE for stainless steel screw hose couplings



SCREW HOSE COUPLINGS

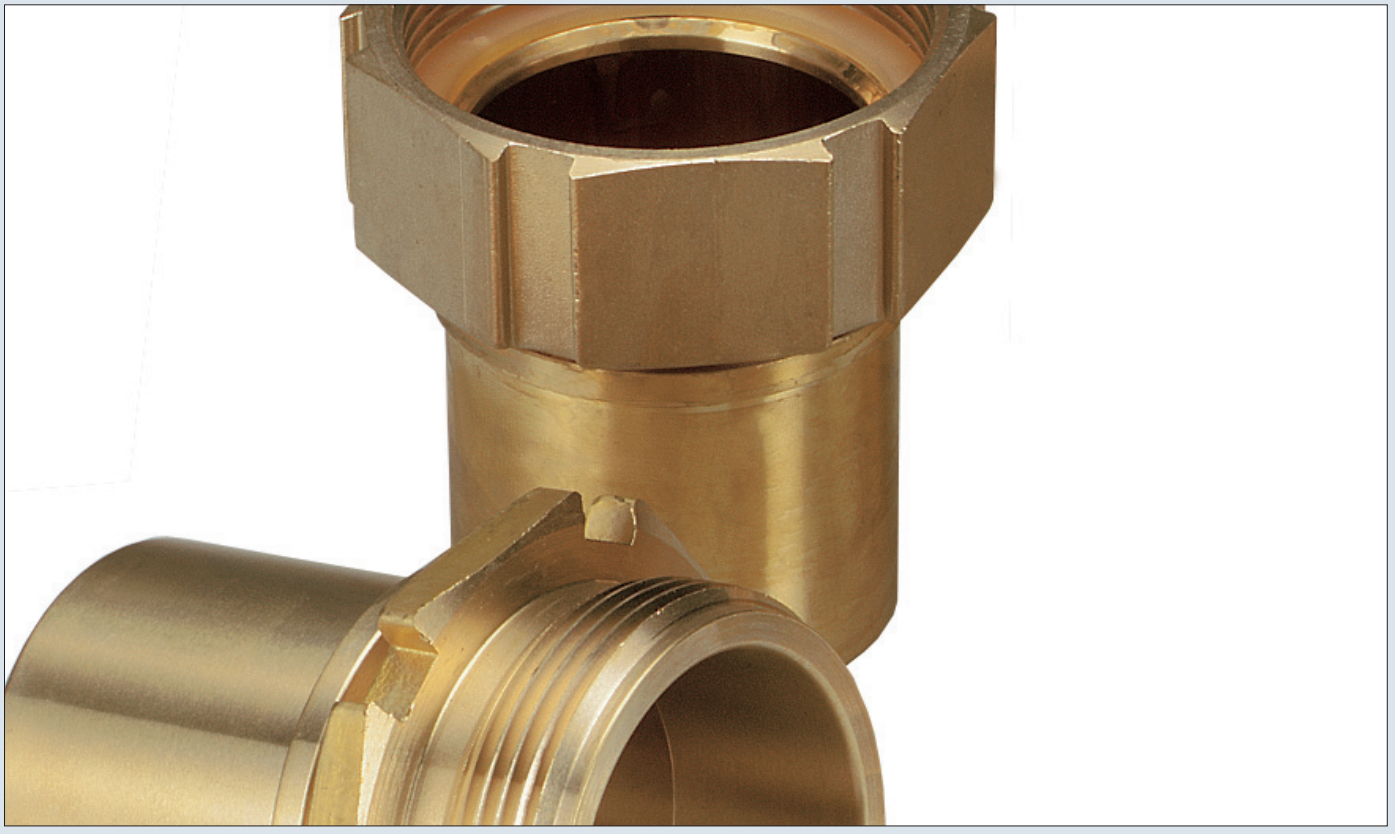
ASSEMBLY

- RK and RKP safety clamps complying with EN 14420-3 / DIN 2817 and FLEXOLINE® safety clamps for screw hose couplings with smooth hose shank complying with EN 14420-2 / DIN 2817
- Worm drive clamps for screw hose couplings with serrated hose shank

THREAD

THREAD	DESCRIPTION	STANDARD	TYPICAL CALL OUT	SEALING METHOD	PROPERTIES
BSP	British standard pipe thread	EN ISO 228-1	G1	■ Parallel thread ■ Pressure tight joint is obtained using a seal or o-ring	■ 55° degree thread angle ■ Trucation of rood and crest are round
BSPT	British standard pipe taper thread	EN 10226-1 DIN 2999-1	R1	■ Conical thread. ■ Pressure tight joint is achieved by the thread	■ 55° degree thread angle ■ Trucation of rood and crest are round
NPT	National pipe taper thread (American standard pipe thread)	ANSI B 1.20.1	NPT 1	■ Conical thread ■ Pressure tight joint is achieved by the thread	■ 60° degree round angle ■ Trucation of rood and crest are flat

Screw hose couplings with BSPT thread on request available.



SCREW HOSE COUPLINGS

MALE THREADED WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Thread	Material	SW min. size mm	Weight pc/kg	Reference
15	1/2″	13	G 1/2	Brass	22	0.07	RM013
20	3/4"	19	G 3/4	Brass	27	0.10	RM019
25	1"	25	G 1	Brass	36	0.15	RM025
32	1.1/4″	32	G 1.1/4	Brass	46	0.26	RM032
40	1.1/2″	38	G 1.1/2	Brass	55	0.35	RM038
50	2"	50	G 2	Brass	65	0.46	RM050
65	2.1/2″	63	G 2.1/2	Brass	85	0.72	RM063
65	2.1/2″	65	G 2.1/2	Brass	85	0.72	RM065*
80	3"	75	G 3	Brass	100	0.91	RM075
80	3"	80	G 3	Brass	100	1.30	RM080*
100	4"	100	G 4	Brass	125	1.93	RM100
15	1/2"	13	G 3/4	Brass	27	0.10	RM013019
20	3/4"	19	G 1	Brass	36	0.14	RM019025
25	1"	25	G 1.1/4	Brass	46	0.27	RM025032
32	1.1/4″	32	G 1.1/2	Brass	55	0.28	RM032038
40	1.1/2″	38	G 2	Brass	65	0.35	RM038050
50	2"	50	G 2.1/2	Brass	85	0.56	RM050063
65	2.1/2″	63	G 3	Brass	100	0.78	RM063075
15	1/2"	13	NPT 1/2	Brass	22	0.07	RM013N
20	3/4"	19	NPT 3/4	Brass	27	0.10	RM019N
25	1"	25	NPT 1	Brass	36	0.20	RM025N
32	1.1/4″	32	NPT 1.1/4	Brass	46	0.30	RM032N
40	1.1/2″	38	NPT 1.1/2	Brass	55	0.44	RM038N
50	2"	50	NPT 2	Brass	65	0.78	RM050N
65	2.1/2″	63	NPT 2.1/2	Brass	85	1.10	RM063N
65	2.1/2″	65	NPT 2.1/2	Brass	85	1.10	RM065N*
80	3"	75	NPT 3	Brass	100	1.50	RM075N
80	3"	80	NPT 3	Brass	100	1.50	RM080N*
100	4"	100	NPT 4	Brass	125	3.15	RM100N
15	1/2"	13	G 1/2	SS	22	0.07	RRM013
20	3/4"	19	G 3/4	SS	27	0.10	RRM019
25	1"	25	G 1	SS	36	0.15	RRM025
32	1.1/4″	32	G 1.1/4	SS	46	0.21	RRM032
40	1.1/2″	38	G 1.1/2	SS	55	0.29	RRM038
50	2"	50	G 2	SS	65	0.43	RRM050
65	2.1/2″	63	G 2.1/2	SS	85	0.69	RRM063
65	2.1/2″	65	G 2.1/2	SS	85	0.69	RRM065*
80	3"	75	G 3	SS	100	0.91	RRM075
80	3"	80	G 3	SS	100	1.10	RRM080*
100	4"	100	G 4	SS	125	1.76	RRM100
15	1/2"	13	NPT 1/2	SS	22	0.08	RRM013N
20	3/4"	19	NPT 3/4	SS	27	0.11	RRM019N
25	1"	25	NPT 1	SS	36	0.18	RRM025N
32	1.1/4″	32	NPT 1.1/4	SS	46	0.25	RRM032N
40	1.1/2″	38	NPT 1.1/2	SS	55	0.37	RRM038N
50	2"	50	NPT 2	SS	65	0.48	RRM050N
65	2.1/2″	63	NPT 2.1/2	SS	85	0.73	RRM063N
65	2.1/2″	65	NPT 2.1/2	SS	85	0.73	RRM065N*
80	3"	75	NPT 3	SS	100	1.01	RRM075N
80	3"	80	NPT 3	SS	100	1.01	RRM080N*
100	4"	100	NPT 4	SS	125	1.84	RRM100N





Coupling standard: EN 14420-5 / DIN 2817
Hose shank standard: EN 14420-2 / DIN 2817
Male thread: EN ISO 228-1, BSP; Flat sealing; ANSI B1.20.1, NPT
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps
SS = Stainless steel AISI 316 - 1.4401
Type of hexagon or octagon nut is subject to change without prior notice
* available on request

SCREW HOSE COUPLINGS

FEMALE THREADED WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Thread EN ISO 228-1	Thread seal	Material	SW min. size mm	Weight pc/kg	Reference
15	1/2"	13	G 1/2	PU	Brass	24	0.06	RV013
20	3/4"	19	G 3/4	PU	Brass	30	0.10	RV019
25	1"	25	G 1	PU	Brass	36	0.13	RV025
32	1.1/4″	32	G 1.1/4	PU	Brass	46	0.20	RV032
40	1.1/2″	38	G 1.1/2	PU	Brass	55	0.38	RV038
50	2"	50	G 2	PU	Brass	65	0.42	RV050
65	2.1/2″	63	G 2.1/2	PU	Brass	85	0.68	RV063
65	2.1/2″	65	G 2.1/2	PU	Brass	85	0.68	RV065*
80	3"	75	G 3	PU	Brass	100	0.98	RV075
80	3"	80	G 3	PU	Brass	100	0.98	RV080*
100	4"	100	G 4	PU	Brass	125	3.60	RV100
15	1/2"	13	G 3/4	PU	Brass	30	0.07	RV013019
20	3/4"	19	G 1	PU	Brass	36	0.12	RV019025
25	1"	25	G 1.1/4	PU	Brass	46	0.19	RV025032
32	1.1/4″	32	G 1.1/2	PU	Brass	55	0.30	RV032038
38	1.1/2″	38	G 2	PU	Brass	65	0.40	RV038050
50	2"	50	G 2.1/2	PU	Brass	85	0.75	RV050063
63	2.1/2″	63	G 3	PU	Brass	100	1.04	RV063075
15	1/2"	13	G 1/2	PTFE	SS	24	0.10	RRV013
20	3/4"	19	G 3/4	PTFE	SS	30	0.15	RRV019
25	1"	25	G 1	PTFE	SS	36	0.16	RRV025
32	1.1/4″	32	G 1.1/4	PTFE	SS	46	0.18	RRV032
40	1.1/2″	38	G 1.1/2	PTFE	SS	55	0.29	RRV038
50	2"	50	G 2	PTFE	SS	5	0.44	RRV050
65	2.1/2″	63	G 2.1/2	PTFE	SS	85	0.75	RRV063
65	2.1/2″	65	G 2.1/2	PTFE	SS	85	0.75	RRV065*
80	3"	75	G 3	PTFE	SS	100	1.12	RRV075
80	3"	80	G 3	PTFE	SS	100	1.12	RRV080*
100	4"	100	G 4	PTFE	SS	125	3.90	RRV100
15	1/2"	13	G 3/4	PTFE	SS	30	0.14	RRV013019
20	3/4"	19	G 1	PTFE	SS	36	0.22	RRV019025
25	1"	25	G 1.1/4	PTFE	SS	46	0.38	RRV025032
32	1.1/4″	32	G 1.1/2	PTFE	SS	55	0.46	RRV032038
40	1.1/2″	38	G 2	PTFE	SS	65	0.62	RRV038050
50	2"	50	G 2.1/2	PTFE	SS	85	0.70	RRV050063
65	2.1/2″	63	G 3	PTFE	SS	100	0.85	RRV063075





Coupling standard: EN 14420-5 / DIN 2817
Hose shank standard: EN 14420-2 / DIN 2817
Female thread: EN ISO 228-1, BSP
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps
SS = Stainless steel AISI 316 - 1.4401
Type of screw nut is subject to change without prior notice
* available on request

SCREW HOSE COUPLINGS

MALE THREADED WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Thread EN ISO 228-1	Material	SW min. size mm	Weight pc/kg	Reference
15	1/2"	13	G 1/2	Brass	22	0.08	1R013
20	3/4"	19	G 3/4	Brass	27	0.11	1R019
25	1"	25	G 1	Brass	36	0.15	1R025
32	1.1/4"	32	G 1.1/4	Brass	46	0.26	1R032
40	1.1/2"	38	G 1.1/2	Brass	55	0.27	1R038
50	2"	50	G 2	Brass	65	0.50	1R050
65	2.1/2"	63	G 2.1/2	Brass	85	0.92	1R065
80	3"	75	G 3	Brass	100	1.00	1R075
80	3"	80	G 3	Brass	100	0.89	1R080*
100	4"	100	G 4	Brass	125	1.89	1R100
15	1/2"	13	G 3/4	Brass	27	0.12	1R013019
20	3/4"	19	G 1	Brass	36	0.17	1R019025
25	1"	25	G 1.1/4	Brass	46	0.24	1R025032
32	1.1/4"	32	G 1.1/2	Brass	55	0.36	1R032038
40	1.1/2"	38	G 2	Brass	65	0.51	1R038050
50	2"	50	G 2.1/2	Brass	85	0.75	1R050065
65	2.1/2"	63	G 3	Brass	100	0.83	1R065075
15	1/2"	13	G 1/2	SS	22	0.07	R1R013
20	3/4"	19	G 3/4	SS	27	0.10	R1R019
25	1"	25	G 1	SS	36	0.16	R1R025
32	1.1/4"	32	G 1.1/4	SS	46	0.30	R1R032
40	1.1/2"	38	G 1.1/2	SS	55	0.38	R1R038
50	2"	50	G 2	SS	65	0.54	R1R050
65	2.1/2"	63	G 2.1/2	SS	85	0.87	R1R065
80	3"	75	G 3	SS	95	0.96	R1R075
80	3"	80	G 3	SS	95	0.70	R1R080*
100	4"	100	G 4	SS	100	1.84	R1R100





Male thread EN ISO 228-1, BSP, flat sealing
Assembly: worm drive clamps
SS = Stainless steel AISI 316 - 1.4401
Type of hexagon or octagon is subject to change without prior notice
* available on request

SCREW HOSE COUPLINGS

FEMALE THREADED SWIVEL WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Thread EN ISO 228-1	Thread seal	Material	Socket wrench min. size mm	Weight kg/pc	Reference
15	1/2"	13	G 1/2	PU	Brass	24	0.05	2R013
20	3/4"	19	G 3/4	PU	Brass	30	0.07	2R019
25	1"	25	G 1	PU	Brass	36	0.09	2R025
32	1.1/4″	32	G 1.1/4	PU	Brass	46	0.16	2R032
40	1.1/2″	38	G 1.1/2	PU	Brass	55	0.20	2R038
50	2"	50	G 2	PU	Brass	65	0.31	2R050
65	2.1/2″	63	G 2.1/2	PU	Brass	85	0.55	2R065
80	3"	75	G 3	PU	Brass	100	0.54	2R075
80	3"	80	G 3	PU	Brass	100	0.61	2R080*
100	4"	100	G 4	PU	Brass	125	1.89	2R100
20	3/4"	19	G 1	PU	Brass	36	0.18	2R019025
25	1"	25	G 1.1/4	PU	Brass	46	0.32	2R025032
32	1.1/4″	32	G 1.1/2	PU	Brass	55	0.54	2R032038
40	1.1/2″	38	G 2	PU	Brass	65	0.72	2R038050
50	2"	50	G 2.1/2	PU	Brass	85	0.86	2R050065
65	2.1/2″	63	G 3	PU	Brass	100	1.13	2R065075
15	1/2"	13	G 1/2	PTFE	SS	24	0.09	R2R013
20	3/4"	19	G 3/4	PTFE	SS	30	0.10	R2R019
25	1"	25	G 1	PTFE	SS	36	0.16	R2R025
32	1.1/4″	32	G 1.1/4	PTFE	SS	46	0.20	R2R032
40	1.1/2″	38	G 1.1/2	PTFE	SS	55	0.39	R2R038
50	2"	50	G 2	PTFE	SS	65	0.44	R2R050
65	2.1/2″	63	G 2.1/2	PTFE	SS	85	0.82	R2R065
80	3"	75	G 3	PTFE	SS	100	0.94	R2R075
80	3"	80	G 3	PTFE	SS	100	0.91	R2R080*
100	4"	100	G 4	PTFE	SS	125	2.30	R2R100





Female thread EN ISO 228-1, BSP
Assembly: worm drive clamps
SS = Stainless steel AISI 316 - 1.4401
Type of screw nut is subject to change without prior notice
* available on request

SCREW HOSE COUPLINGS

MALE THREADED WITH SERRATED HOSE SHANK + COLLAR

ND	Inch	For hose mm	Thread EN ISO 228-4	Material	Reference
15	1/2	13	G 1/2	brass	RMG013
20	3/4	19	G 3/4	brass	RMG019
25	1	25	G 1	brass	RMG025
32	1.1/4	32	G 1.1/4	brass	RMG032
40	1.1/2	38	G 1.1/2	brass	RMG038
50	2	50	G 2	brass	RMG050
65	2.1/2	63	G 2.1/2	brass	RMG063
80	3	75	G 3	brass	RMG075
100	4	100	G 4	brass	RMG100*



Coupling standard: based on EN 14420-5
Hose shank standard: based on EN 14420-2
Male thread: EN ISO 228-4, BSP, flat sealing
Assembly: EN 14420-3 and Flexoline safety clamps, HRRK/HRRL swage ferrules, band and worm drive clamps (not for 25 bar)
Brass: CW 614N
* available on request

MALE THREADED WITH SERRATED HOSE SHANK + COLLAR

ND	Inch	For hose mm	Thread EN ISO 228-4	Material	Reference
15	1/2	13	G 1/2	SS	RRMG013
20	3/4	19	G 3/4	SS	RRMG019
25	1	25	G 1	SS	RRMG025
32	1.1/4	32	G 1.1/4	SS	RRMG032
40	1.1/2	38	G 1.1/2	SS	RRMG038
50	2	50	G 2	SS	RRMG050
65	2.1/2	63	G 2.1/2	SS	RRMG063
80	3	75	G 3	SS	RRMG075
100	4	100	G 4	SS	RRMG100



Coupling standard: based on EN 14420-5
Hose shank standard: based on EN 14420-2
Male thread: EN ISO 228-4, BSP, flat sealing
Assembly: EN 14420-3 and Flexoline safety clamps, HRRK/HRRL swage ferrules, band and worm drive clamps (not for 25 bar)
SS = Stainless steel AISI 316 - 1.4401
* available on request

SCREW HOSE COUPLINGS

MALE THREADED WITH SERRATED HOSE SHANK + COLLAR

ND	Inch	For hose mm	Thread EN ISO 228-4	Material	Reference
50	2	50	G 2	Aluminium	ARMG050
80	3	75	G 3	Aluminium	ARMG075
100	4	100	G 4	Aluminium	ARMG100



Coupling standard: based on EN 14420-5, maximum PN10
Hose shank standard: based on EN 14420-2, maximum PN10
Male thread: EN ISO 228-4, BSP, flat sealing
Assembly: EN 14420-3 and Flexoline safety clamps, HRRK/HRRL swage ferrules, band and worm drive clamps (not for 25 bar)
Aluminium, anodized
* available on request

SCREW HOSE COUPLINGS

THREAD SEAL - PTFE

ND	Inch	OD Ø mm	ID Ø mm	Height mm	Weight/pc kg	Reference
15	1/2"	20.0	13.0	1.5	0.001	X2RP013
20	3/4"	26.0	19.0	1.5	0.001	X2RP020
25	1"	33.0	24.0	2.0	0.002	X2RP025
32	1.1/4"	42.0	33.0	2.0	0.002	X2RP032
40	1.1/2"	48.0	39.0	2.0	0.003	X2RP038
50	2"	60.0	49.0	2.0	0.004	X2RP050
65	2.1/2"	76.0	63.0	2.5	0.006	X2RP065
80	3"	88.0	77.0	3.0	0.010	X2RP075
100	4"	114.0	100.0	3.0	0.015	X2RP100



Material: PTFE
Colour: White
Seal dimensions in compliance with EN 14420-5
See chapter E for more information regarding chemical resistance

THREAD SEAL - PU

ND	Inch	OD Ø mm	ID Ø mm	Height mm	Weight/pc kg	Reference
15	1/2"	20.0	13.0	1.5	0.001	X2RV013
20	3/4"	26.0	19.0	1.5	0.001	X2RV020
25	1"	33.0	24.0	2.0	0.001	X2RV025
32	1.1/4"	42.0	33.0	2.0	0.001	X2RV032
40	1.1/2"	48.0	39.0	2.0	0.001	X2RV038
50	2"	60.0	49.0	2.0	0.002	X2RV050
65	2.1/2"	76.0	63.0	2.5	0.003	X2RV065
80	3"	88.0	77.0	3.0	0.005	X2RV075
100	4"	114.0	100.0	3.0	0.008	X2RV100



Material: PU
Colour: Brown
Seal dimensions in compliance with EN 14420-5
See chapter E for more information regarding chemical resistance

STANDARD

LMC'S nipples are used to make threaded connections between couplings. The nipple consist of a standard BSP thread complying with EN ISO 228-1. NPT threaded nipples complying with ANSI B 1.20.1 are also available on request.

OPERATION

The nipple is screwed by hand into a counter coupling equipped with the same thread standard. BSP threads are closed using the flat sealing surface of the nipple. Stainless steel and brass nipples consist of a hexagonal nut which facilitates assembly. For extra rigidity, the coupling connection can be tightened using a wrench.

APPLICATION

To connect all types of low pressure couplings up to 16 bar / 232 psi.

WORKING PRESSURE

16 bar / 232 psi

TEMPERATURE

-40°C / -40°F up to 280°C / 536°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Brass
  Stainless steel AISI 316 / 1.4401
  Aluminium

- Seal
  PU for brass nipples

THREAD

Standard: EN ISO 228-1, BSP
ANSI B1.20.1, NPT available on request



NIPPLES

MALE - MALE DOUBLE NIPPLE

Male thread EN ISO 228-1	Male thread EN ISO 228-1	Material	Weight/pc Kg	Reference
G 1/2	G 1/2	Brass	0.04	UMM013013
G 3/4	G 3/4	Brass	0.06	UMM019019
G 1	G 1	Brass	0.14	UMM025025
G 1.1/4	G 1.1/4	Brass	0.17	UMM032032
G 1.1/2	G 1.1/2	Brass	0.23	UMM038038
G 2	G 2	Brass	0.32	UMM050050
G 2.1/2	G 2.1/2	Brass	0.56	UMM063063
G 3	G 3	Brass	0.64	UMM075075
G 4	G 4	Brass	1.03	UMM100100



G 1/2	G 1/2	Stainless steel	0.05	RUMM013013
G 3/4	G 3/4	Stainless steel	0.06	RUMM019019
G 1	G 1	Stainless steel	0.13	RUMM025025
G 1.1/4	G 1.1/4	Stainless steel	0.16	RUMM032032
G 1.1/2	G 1.1/2	Stainless steel	0.25	RUMM038038
G 2	G 2	Stainless steel	0.37	RUMM050050
G 2.1/2	G 2.1/2	Stainless steel	0.55	RUMM063063
G 3	G 3	Stainless steel	0.66	RUMM075075
G 4	G 4	Stainless steel	1.05	RUMM100100



G 1.1/2	G 1.1/2	Aluminium	0.04	AUMM038038
G 2	G 2	Aluminium	0.11	AUMM050050
G 2.1/2	G 2.1/2	Aluminium	0.12	AUMM063063
G 3	G 3	Aluminium	0.20	AUMM075075
G 4	G 4	Aluminium	0.27	AUMM100100
G 5	G 5	Aluminium	0.44	AUMM125125
G 6	G 6	Aluminium	0.55	AUMM150150



Thread EN ISO 228-1, BSP
Stainless steel AISI 316 - 1.4401

FEMALE - FEMALE DOUBLE NIPPLE

Female thread EN ISO 228-1	Female thread EN ISO 228-1	Material	Weight/pc Kg	Reference
G 1	G 1	Brass	0.11	UFF025025
G 1.1/4	G 1.1/4	Brass	0.17	UFF032032
G 1.1/2	G 1.1/2	Brass	0.28	UFF038038
G 2	G 2	Brass	0.31	UFF050050
G 2.1/2	G 2.1/2	Brass	0.70	UFF063063
G 3	G 3	Brass	0.91	UFF075075



G 2	G 2	Aluminium	0.15	AUFF050050
G 2.1/2	G 2.1/2	Aluminium	0.18	AUFF063063
G 3	G 3	Aluminium	0.25	AUFF075075
G 4	G 4	Aluminium	0.31	AUFF100100
G 5	G 5	Aluminium	0.34	AUFF125125

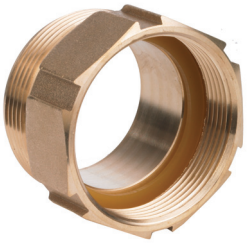


Thread EN ISO 228-1, BSP
PU thread seal for brass version, NBR for aluminium version
Stainless steel available on request

NIPPLES

MALE - FEMALE DOUBLE NIPPLE

Male thread EN ISO 228-1	Female thread EN ISO 228-1	Material	Weight/pc Kg	Reference
G 1/2	G 1/2	Brass	0.03	UMF013013
G 3/4	G 3/4	Brass	0.07	UMF019019
G 1	G 1	Brass	0.08	UMF025025
G 1.1/4	G 1.1/4	Brass	0.15	UMF032032
G 1.1/2	G 1.1/2	Brass	0.25	UMF038038
G 2	G 2	Brass	0.23	UMF050050
G 2.1/2	G 2.1/2	Brass	0.63	UMF063063
G 3	G 3	Brass	0.78	UMF075075



Thread complying with EN ISO 228-1, BSP
PU thread seal

MALE - MALE REDUCING NIPPLE

Male thread EN ISO 228-1	Male thread EN ISO 228-1	Material	Weight/pc Kg	Reference
G 1/2	G 3/4	Brass	0.13	UMM013019
G 3/4	G 1	Brass	0.10	UMM019025
G 1	G 1.1/4	Brass	0.20	UMM025032
G 1	G 1.1/2	Brass	0.25	UMM025038
G 1.1/4	G 1.1/2	Brass	0.24	UMM032038
G 1.1/4	G 2	Brass	0.32	UMM032050
G 1.1/2	G 2	Brass	0.32	UMM038050
G 2	G 2.1/2	Brass	0.55	UMM050063
G 2	G 3	Brass	0.54	UMM050075
G 2.1/2	G 3	Brass	0.58	UMM063075
G 3	G 4	Brass	1.24	UMM075100



G 1/2	G 3/4	Stainless steel	0.05	RUMM013019
G 3/4	G 1	Stainless steel	0.13	RUMM019025
G 1	G 1.1/4	Stainless steel	0.20	RUMM025032
G 1	G 1.1/2	Stainless steel	0.25	RUMM025038
G 1.1/4	G 1.1/2	Stainless steel	0.22	RUMM032038
G 1.1/4	G 2	Stainless steel	0.41	RUMM032050
G 1.1/2	G 2	Stainless steel	0.35	RUMM038050
G 2	G 2.1/2	Stainless steel	0.69	RUMM050063
G 2	G 3	Stainless steel	0.73	RUMM050075
G 2.1/2	G 3	Stainless steel	0.59	RUMM063075
G 3	G 4	Stainless steel	1.05	RUMM075100



G 1.1/2	G 2	Aluminium	0.14	AUMM038050
G 2	G 3	Aluminium	0.22	AUMM050075
G 2.1/2	G 3	Aluminium	0.19	AUMM063075
G 3	G 4	Aluminium	0.23	AUMM075100



Thread EN ISO 228-1, BSP
Stainless steel AISI 316 - 1.4401

NIPPLES

FEMALE - FEMALE REDUCING NIPPLE

Female thread EN ISO 228-1	Female thread EN ISO 228-1	Material	Weight/pc Kg	Reference
G 3/4	G 1	Brass	0.13	UFF019025
G 1	G 1.1/4	Brass	0.27	UFF025032
G 1.1/4	G 1.1/2	Brass	0.37	UFF032038
G 1.1/2	G 2	Brass	0.38	UFF038050
G 2	G 2.1/2	Brass	0.62	UFF050063
G 2.1/2	G 3	Brass	0.78	UFF063075
G 3	G 4	Brass	1.55	UFF075100



G 2	G 2.1/2	Aluminium	0.43	AUFF050063
G 2	G 3	Aluminium	0.35	AUFF050075
G 2.1/2	G 3	Aluminium	0.24	AUFF063075
G 2.1/2	G 4	Aluminium	0.38	AUFF063100
G 3	G 4	Aluminium	0.34	AUFF075100
G 4	G 5	Aluminium	1.22	AUFF100125
G 5	G 6	Aluminium	0.72	AUFF125150



MALE - FEMALE REDUCING NIPPLE

Male thread EN ISO 228-1	Female thread EN ISO 228-1	Material Kg	Weight/pc	Reference
G 1/2	G 3/4	Brass	0.03	UMF013019
G 3/4	G 1	Brass	0.13	UMF019025
G 1	G 3/4	Brass	0.13	UMF025019
G 1	G 1.1/4	Brass	0.14	UMF025032
G 1	G 1.1/2	Brass	0.25	UMF025038
G 1.1/4	G 1	Brass	0.14	UMF032025
G 1.1/4	G 1.1/2	Brass	0.23	UMF032038
G 1.1/4	G 2	Brass	0.32	UMF032050
G 1.1/2	G 1	Brass	0.23	UMF038025
G 1.1/2	G 1.1/4	Brass	0.24	UMF038032
G 1.1/2	G 2	Brass	0.35	UMF038050
G 2	G 1.1/4	Brass	0.31	UMF050032
G 2	G 1.1/2	Brass	0.23	UMF050038
G 2	G 2.1/2	Brass	0.42	UMF050063
G 2	G 3	Brass	1.17	UMF050075
G 2.1/2	G 2	Brass	0.52	UMF063050
G 2.1/2	G 3	Brass	0.72	UMF063075
G 3	G 2	Brass	0.41	UMF075050
G 3	G 2.1/2	Brass	0.57	UMF075063
G 3	G 4	Brass	1.08	UMF075100
G 4	G 3	Brass	0.97	UMF100075



G 2	G 1.1/4	Aluminium	0.18	AUMF050032
G 2	G 1/2	Aluminium	0.17	AUMF050038
G 2.1/2	G 2	Aluminium	0.18	AUMF063050
G 3	G 2	Aluminium	0.33	AUMF075050
G 2	G 2.1/2	Aluminium	0.25	AUMF050063
G 3	G 2.1/2	Aluminium	0.30	AUMF075063
G 4	G 2.1/2	Aluminium	0.34	AUMF100063
G 2	G 3	Aluminium	0.23	AUMF050075
G 2.1/2	G 3	Aluminium	0.22	AUMF063075
G 4	G 3	Aluminium	0.34	AUMF100075
G 5	G 4	Aluminium	0.34	AUMF125100



Thread EN ISO 228-1, BSP
PU thread seal for brass version

MALE THREADED WELDING NIPPLES AND FLANGES

MALE THREADED FLANGE

ND	Inch	OD welding end mm	Thread EN ISO 228-1	Material	Reference
15	1/2"	21,34	G 1/2	SS 316Ti	RLMFD013BSP
20	3/4"	26,67	G 3/4	SS 316Ti	RLMFD019BSP
25	1"	33,40	G 1	SS 316Ti	RLMFD025BSP
32	1.1/4"	42,16	G 1.1/4	SS 316Ti	RLMFD032BSP
40	1.1/2"	48,26	G 1.1/2	SS 316Ti	RLMFD038BSP
50	2"	60,33	G 2	SS 316Ti	RLMFD050BSP
65	2.1/2"	75,00	G 2.1/2	SS 316Ti	RLMFD063BSP
80	3"	88,90	G 3	SS 316Ti	RLMFD075BSP
100	4"	114,30	G 4	SS 316Ti	RLMFD0100BSP
125	5"	141,30	G 5	SS 316Ti	RLMFD0125BSP
150	6"	168,28	G 6	SS 316Ti	RLMFD0150BSP



Fixed flange: welding neck flange DIN 2632 PN10, DIN 2633 PN 16 / EN 1092-1 11 B.
Welding neck flanges according to ASTM A 182 ANSI B 1.16 upon request available
Flange pressure class: DIN PN10/16
Stainless steel AISI 316Ti - 1.4571

MALE WELDING NIPPLE BSP

ND	Inch	Total lenght mm	OD welding end	Thread EN ISO 228-1	Material	Reference
15	1/2"	35	21,34	G 1/2	SS 316Ti	RLM013BSP
20	3/4"	35	26,67	G 3/4	SS 316Ti	RLM019BSP
25	1"	35	33,40	G 1	SS 316Ti	RLM025BSP
32	1.1/4"	35	42,16	G 1.1/4	SS 316Ti	RLM032BSP
40	1.1/2"	35	48,26	G 1.1/2	SS 316Ti	RLM038BSP
50	2"	45	60,33	G 2	SS 316Ti	RLM050BSP
65	2.1/2"	45	75,00	G 2.1/2	SS 316Ti	RLM065BSP
80	3"	45	88,90	G 3	SS 316Ti	RLM075BSP
100	4"	45	114,30	G 4	SS 316Ti	RLM100BSP
125	5"	60	141,30	G 5	SS 316Ti	RLM125BSP
150	6"	60	168,28	G 6	SS 316Ti	RLM150BSP



Welding nipple male threaded EN ISO 228-1 BSP, flat sealing
Stainless steel AISI 316Ti - 1.4571

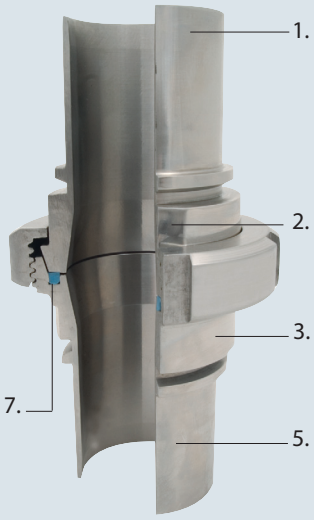
STANDARD

Food couplings complying with DIN 11851 are used in the food, chemical and pharmaceutical industries to connect rubber food hoses and stainless steel pipes (in compliance with DIN 11850).
On request aseptic food couplings complying with DIN 11864 are available.

OPERATION

The seal must be inserted correctly into the seal sitting of the male coupling before connection. The conical female coupling is then pushed onto the male threaded coupling. The two are secured by sliding the nut across the conical head of the female coupling and onto the thread of the male coupling. The flanged seal enables easy assembly and prevents any displacement by vacuum or pressure.
Threaded food couplings complying with DIN 11851 have a rounded thread complying with DIN 405/1. This rounded thread ensures that DIN 11851 compliant food couplings are easy to connect by hand or using a wrench.

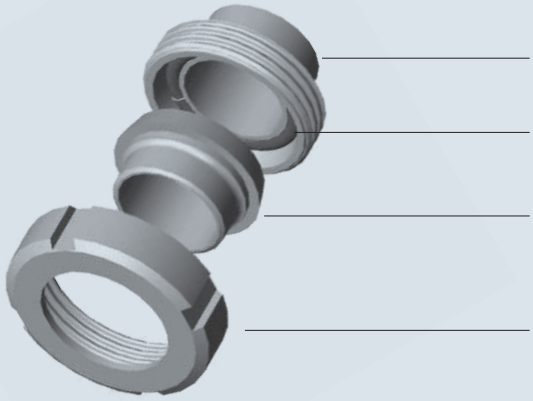
FEATURES



1. Electro-polished external surface for improved hygiene
2. Additional wrench surface to prevent twisting of the hose when fitting one half of the coupling to the other half.
3. Extra-long head for easy assembly and disassembly + marking heat number + size
4. Low Ra-value of inner surface up to ≤1.6 µm
5. Hose shank for assembly with RK and RKF safety clamps, FLEXOLINE® safety clamps or HHRK and HRP swage ferrules
6. Easy assembly of rubber protection ring
7. Standard NBR seal conforming FDA directive and ADI-free



CONNECTION



1. Male threaded welding coupling type DIN213...
2. NBR seal type DIN211...
3. Female welding coupling type DIN214...
4. Nut type DIN210...

Food couplings complying with DIN 11851 vs SMS 1145

	DIN 11851	SMS 1145
Female coupling	Conical face	Flat face
Male coupling	Deep seal	Turned-up seal
Seal	U-shape seal	Square seal
Male and female thread	Rounded thread complying with DIN 405/1	Rounded thread complying with DIN 405/1
Max. working pressure	40 bar / 580 psi	6 bar / 87 psi

DIN 11851 SMS 1145



APPLICATION

For the food, beverage, pharmaceutical and chemical industries.

WORKING PRESSURE

ND	BAR	PSI
15	40	580
20	40	580
25	40	580
32	40	580
40	40	580
50	25	362
65	25	362
80	25	362
100	25	362

Working pressure of the coupling must be chosen in relation with the working pressure of the desired hose and pipe.

TEMPERATURE

-30°C / -22°F up to 120°C/ 248°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired temperature and working pressure.

MATERIAL

- Coupling
  Stainless steel AISI 316 - 1.4401 = hose coupling (standard)
  Stainless steel AISI 304 - 1.4301 = nut, cap and welding coupling (standard)

- Seal
  NBR (standard),
  EPDM, FPM, H-NBR, MVQ available on request

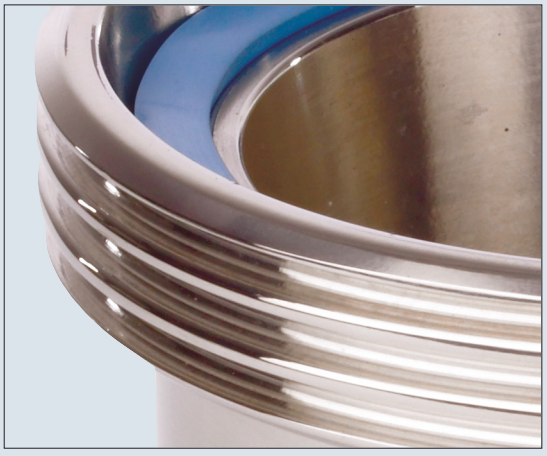
ASSEMBLY

1. RK and RKP safety clamps complying with EN 14420-3 / DIN 2817
2. FLEXOLINE® safety clamps
3. HRRK or HRP swage ferrules
4. Welding

THREADS

Food couplings complying with DIN 11851 are not interchangeable with SMS 1145 food couplings. Although the threads of both couplings comply with DIN 405/1, precise dimensions vary, making them non-interchangeable.

ND	THREAD COMPLYING WITH DIN 405/1
15	RD 34 x 1/8"
20	RD 44 x 1/6"
25	RD 52 x 1/6"
32	RD 58 x 1/6"
40	RD 65 x 1/6"
50	RD 78 x 1/6"
65	RD 95 x 1/6"
3"	RD 104 x 1/6"
80	RD 110 x 1/4"
100	RD 130 x 1/4"



3" = on request

RA-VALUE

Roughness average value (Ra-value) DIN 11851 couplings
1. Ra-value inner side ≤ 1.6 µm
2. Ra-value outer side ≤ 3.2 µm

Other Ra-values and Ra-report available on request.

FOOD COUPLINGS DIN 11851

FEMALE COUPLING WITH SMOOTH HOSE SHANK AND NUT

ND	Inch	For hose mm	Thread nut DIN 405/1	Weight/pc Kg	Reference
15	1/2"	13	RD 34 x 1/8"	0.22	DKV013
20	3/4"	19	RD 44 x 1/6"	0.28	DKV019
25	1"	25	RD 52 x 1/6"	0.37	DKV025
32	1.1/4"	32	RD 58 x 1/6"	0.44	DKV032
40	1.1/2"	38	RD 65 x 1/6"	0.55	DKV038
40	1.1/2"	40	RD 65 x 1/6"	0.67	DKV040
50	2"	50	RD 78 x 1/6"	0.76	DKV050
65	2.1/2"	63	RD 95 x 1/6"	1.40	DKV063
65	2.1/2"	65	RD 95 x 1/6"	1.46	DKV065
80	3"	75	RD 110 x 1/4"	1.89	DKV075
80	3"	80	RD 110 x 1/4"	2.10	DKV080
100	4"	100	RD 130 x 1/4"	2.89	DKV100



Hose shank standard: EN 14420-2 / DIN 2817
Coupling material: stainless steel AISI 316 - 1.4401
Nut material: stainless steel AISI 304 - EN 1.4301
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817 or FLEXOLINE® safety clamps
*on request

FEMALE COUPLING WITH SERRATED HOSE SHANK AND NUT

ND	Inch	For hose mm	Thread nut DIN 405/1	Weight/pc Kg	Reference
15	1/2"	13	RD 34 x 1/8"	0.14	DKVR013
20	3/4"	19	RD 44 x 1/6"	0.23	DKVR019
25	1"	25	RD 52 x 1/6"	0.34	DKVR025
32	1.1/4"	32	RD 58 x 1/6"	0.44	DKVR032
40	1.1/2"	38	RD 65 x 1/6"	0.56	DKVR038
40	1.1/2"	40	RD 65 x 1/6"	0.63	DKVR040
50	2"	50	RD 78 x 1/6"	0.81	DKVR050
65	2.1/2"	63	RD 95 x 1/6"	1.34	DKVR063
65	2.1/2"	65	RD 95 x 1/6"	1.37	DKVR065
80	3"	75	RD 110 x 1/4"	1.62	DKVR075
80	3"	80	RD 110 x 1/4"	2.27	DKVR080
100	4"	100	RD 130 x 1/4"	2.91	DKVR100



Coupling material: stainless steel AISI 316 - 1.4401
Nut material: stainless steel AISI 304 - EN 1.4301
Assembly: HRRK swage ferrules
*on request

FOOD COUPLINGS DIN 11851

FEMALE COUPLING WITH SMOOTH HOSE SHANK WITHOUT NUT

ND	Inch	For hose mm	Weight/pc Kg	Reference
15	1/2"	13	0.13	DKVS013
20	3/4"	19	0.15	DKVS019
25	1"	25	0.20	DKVS025
32	1.1/4"	32	0.24	DKVS032
40	1.1/2"	38	0.31	DKVS038
40	1.1/2"	40	0.36	DKVS040*
50	2"	50	0.48	DKVS050
65	2.1/2"	63	0.48	DKVS063
65	2.1/2"	65	0.90	DKVS065*
80	3"	75	1.15	DKVS075
80	3"	80	1.32	DKVS080*
100	4"	100	1.88	DKVS100



Hose shank standard: EN 14420-2 / DIN 2817
Coupling material: stainless steel AISI 316 - 1.4401
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817 or FLEXOLINE® safety clamps
*on request

FEMALE COUPLING WITH SERRATED HOSE SHANK WITHOUT NUT

ND	Inch	For hose mm	Weight/pc Kg	Reference
15	1/2"	13	0.05	DKVSR013
20	3/4"	19	0.10	DKVSR019
25	1"	25	0.17	DKVSR025
32	1.1/4"	32	0.24	DKVSR032
40	1.1/2"	38	0.32	DKVSR038
40	1.1/2"	40	0.35	DKVSR040*
50	2"	50	0.47	DKVSR050
65	2.1/2"	63	0.78	DKVSR063
65	2.1/2"	65	0.81	DKVSR065*
80	3"	75	1.08	DKVSR075
80	3"	80	1.49	DKVSR080*
100	4"	100	1.90	DKVSR100



Coupling material: stainless steel AISI 316 - 1.4401
Assembly: HRRK swage ferrules
*on request

FOOD COUPLINGS DIN 11851

MALE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Thread DIN 405/1	Weight/pc Kg	Reference
15	1/2"	13	RD 34 x 1/8"	0.10	DKM013
20	3/4"	19	RD 44 x 1/6"	0.14	DKM019
25	1"	25	RD 52 x 1/6"	0.24	DKM025
32	1.1/4"	32	RD 58 x 1/6"	0.32	DKM032
40	1.1/2"	38	RD 65 x 1/6"	0.38	DKM038
40	1.1/2"	40	RD 65 x 1/6"	0.40	DKM040*
50	2"	50	RD 78 x 1/6"	0.41	DKM050
65	2.1/2"	63	RD 95 x 1/6"	0.89	DKM063
65	2.1/2"	65	RD 95 x 1/6"	0.91	DKM065
80	3"	75	RD 110 x 1/4"	1.35	DKM075
80	3"	80	RD 110 x 1/4"	1.43	DKM080*
100	4"	100	RD 130 x 1/4"	1.84	DKM100



Hose shank standard: EN 14420-2 / DIN 2817
Coupling material: stainless steel AISI 316 - 1.4401
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817 or FLEXOLINE® safety clamps
Seal: NBR blue included
*on request

MALE COUPLING WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Thread DIN 405/1	Weight/pc Kg	Reference
15	1/2"	13	RD 34 x 1/8"	0.11	DKMR013
20	3/4"	19	RD 44 x 1/6"	0.19	DKMR019
25	1"	25	RD 52 x 1/6"	0.23	DKMR025
32	1.1/4"	32	RD 58 x 1/6"	0.28	DKMR032
40	1.1/2"	38	RD 65 x 1/6"	0.36	DKMR038
40	1.1/2"	40	RD 65 x 1/6"	0.40	DKMR040
50	2"	50	RD 78 x 1/6"	0.51	DKMR050
65	2.1/2"	63	RD 95 x 1/6"	1.10	DKMR063
65	2.1/2"	65	RD 95 x 1/6"	1.15	DKMR065
80	3"	75	RD 110 x 1/4"	1.30	DKMR075
80	3"	80	RD 110 x 1/4"	1.35	DKMR080*
100	4"	100	RD 130 x 1/4"	1.84	DKMR100



Coupling material: stainless steel AISI 316 - 1.4401
Assembly: HRRK swage ferrules
Seal: NBR blue included
*on request

FOOD COUPLINGS DIN 11851

NUT

ND	Inch	Thread DIN 405/1	OD Ø mm	ID Ø nut mm	Height mm	Weight/pc kg	Reference
15	1/2"	RD 34 x 1/8"	44.0	25.0	18.0	0.09	DIN210015
20	3/4"	RD 44 x 1/6"	54.0	31.0	20.0	0.13	DIN210020
25	1"	RD 52 x 1/6"	63.0	36.0	21.0	0.17	DIN210025
32	1.1/4"	RD 58 x 1/6"	70.0	42.0	21.0	0.20	DIN210032
40	1.1/2"	RD 65 x 1/6"	78.0	49.0	21.0	0.24	DIN210040
50	2"	RD 78 x 1/6"	92.0	62.0	22.0	0.34	DIN210050
65	2.1/2"	RD 95 x 1/6"	112.0	80.0	25.0	0.56	DIN210065
-	3"	RD 104 x 1/6"	119.0	88.0	25.0	0.74	DIN210075*
80	3"	RD 110 x 1/4"	127.0	94.0	29.0	0.78	DIN210080
100	4"	RD 130 x 1/4"	148.0	115.0	31.0	1.01	DIN210100



Stainless steel AISI 304 - 1.4301
Stainless steel AISI 316L - 1.4404 on request
* on request

MALE THREADED WELDING COUPLING

ND	Inch	Thread DIN 405/1	OD welding part mm	ID welding part mm	Weight/pc kg	Reference
15	1/2"	RD 34 x 1/8"	21.0	16.0	0.05	DIN213015
20	3/4"	RD 44 x 1/6"	25.0	20.0	0.09	DIN213020
25	1"	RD 52 x 1/6"	31.0	26.0	0.13	DIN213025
32	1.1/4"	RD 58 x 1/6"	37.0	32.0	0.15	DIN213032
40	1.1/2"	RD 65 x 1/6"	43.0	38.0	0.17	DIN213040
50	2"	RD 78 x 1/6"	55.0	50.0	0.17	DIN213050
65	2.1/2"	RD 95 x 1/6"	72.0	66.0	0.40	DIN213065
-	3″	RD 104 x 1/6″	86.0	72.1	0.48	DIN213075*
80	3"	RD 110 x 1/4"	87.0	81.0	0.57	DIN213080
100	4"	RD 130 x 1/4"	106.0	100.0	0.72	DIN213100



Stainless steel AISI 304 - 1.4301; Stainless steel AISI 316L - 1.4404 on request
Seal not included
* on request

FEMALE WELDING COUPLING

ND	Inch	OD cone part mm	OD welding part mm	ID welding part mm	Weight/pc kg	Reference
15	1/2"	28.0	21.0	16.0	0.03	DIN214015
20	3/4"	36.0	25.0	20.0	0.05	DIN214020
25	1"	44.0	31.0	26.0	0.09	DIN214025
32	1.1/4"	50.0	37.0	32.0	0.12	DIN214032
40	1.1/2"	56.0	43.0	38.0	0.14	DIN214040
50	2"	68.0	55.0	50.0	0.19	DIN214050
65	2.1/2"	86.0	72.0	66.0	0.32	DIN214065
-	3″	93.0	76.1	72.1	0.35	DIN214075*
80	3"	100.0	87.0	81.0	0.39	DIN214080
100	4"	121.0	106.0	100.0	0.62	DIN214100



Stainless steel AISI 304 -1.4301; Stainless steel AISI 316L - 1.4404 on request
*on request

FOOD COUPLINGS DIN 11851

MALE PLUG

ND	Inch	Thread DIN 405/1	SW mm	Height mm	Weight/pc kg	Reference
25	1"	RD 52 x 1/6"	27.0	24.0	0.19	DIN217025
32	1.1/4"	RD 58 x 1/6"	27.0	24.0	0.22	DIN217032
40	1.1/2"	RD 65 x 1/6"	27.0	24.0	0.25	DIN217040
50	2"	RD 78 x 1/6"	27.0	24.0	0.35	DIN217050
65	2.1/2"	RD 95 x 1/6"	27.0	28.0	0.64	DIN217065
80	3"	RD 110 x 1/4"	27.0	30.0	1.30	DIN217080
100	4"	RD 130 x 1/4"	27.0	30.0	2.10	DIN217100



Stainless steel AISI 304 - 1.4301
Seal not included

FEMALE CAP WITH BOSS

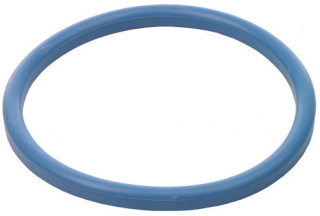
ND	Inch	Thread DIN 405/1	OD Ø mm	Height mm	Weight/pc kg	Reference
15	1/2"	RD 34 x 1/8"	44.0	18.0	0.15	DIN221K015
20	3/4"	RD 44 x 1/6"	54.0	21.0	0.23	DIN221K020
25	1"	RD 52 x 1/6"	63.0	21.0	0.33	DIN221K025
32	1.1/4"	RD 58 x 1/6"	70.0	21.0	0.41	DIN221K032
40	1.1/2"	RD 65 x 1/6"	78.0	21.0	0.49	DIN221K040
50	2"	RD 78 x 1/6"	92.0	22.0	0.71	DIN221K050
65	2.1/2"	RD 95 x 1/6"	112.0	25.0	1.24	DIN221K065
-	3"	RD 104 x 1/6"	119.0	25.0	1.20	DIN221K075*
80	3"	RD 110 x 1/4"	127.0	30.0	1.75	DIN221K080
100	4"	RD 130 x 1/4"	148.0	31.0	2.43	DIN221K100



Stainless steel AISI 304 - 1.4301
NBR seal + chain standard included
* on request

U-SHAPE SEAL - NBR

ND	Inch	OD Ø mm	ID Ø mm	Height mm	Weight/pc kg	Reference
15	1/2"	26.0	18.0	4.5	0.002	DIN211015
20	3/4"	33.0	23.0	4.5	0.003	DIN211020
25	1"	40.0	30.0	5.0	0.004	DIN211025
32	1.1/4"	46.0	36.0	5.0	0.004	DIN211032
40	1.1/2"	52.0	42.0	5.0	0.005	DIN211040
50	2"	64.0	54.0	5.0	0.006	DIN211050
65	2.1/2"	81.0	71.0	5.0	0.008	DIN211065
-	3"	88.0	78.0	5.0	0.008	DIN211075*
80	3"	95.0	85.0	5.0	0.008	DIN211080
100	4"	114.0	104.0	6.0	0.013	DIN211100



NBR blue standard, EPDM, FPM H-NBR and MVQ on request available, FDA
* on request

FOOD COUPLINGS DIN 11851

PROTECTION RINGS FOR HRRK SWAGE FERRULES

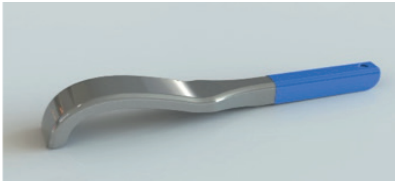
ND	Inch	For hose	OD mm	ID mm	Wall mm	Material	Reference
40	1.1/2	38 x 6.5	115	51	30	NBR	PRSF038065ER
40	1.1/2	38 x 9	115	56	30	NBR	PRSF038090ER
50	2	50 x 8	128	66	30	NBR	PRSF050008ER
50	2	50 x 11	128	72	30	NBR	PRSF050011ER
65	2.1/2	63 x 8	145	79	30	NBR	PRSF063008ER
65	2.1/2	63 x 12	145	87	30	NBR	PRSF063012ER
80	3	75 x 8	160	91	35	NBR	PRSF075008ER
80	3	75 x 12	160	99	35	NBR	PRSF075012ER
80	3	80 x 8	160	96	35	NBR	PRSF080008ER
100	4	100 x 8	180	116	35	NBR	PRSF100008ER
100	4	100 x 12	180	124	35	NBR	PRSF100012ER



MULTI-PURPOSE WRENCH FOR NUTS

ND	Inch	Material	Reference
25-100	1-4	Stainless steel	DINY

Stainless steel AISI 304 with rubber handle



STANDARD

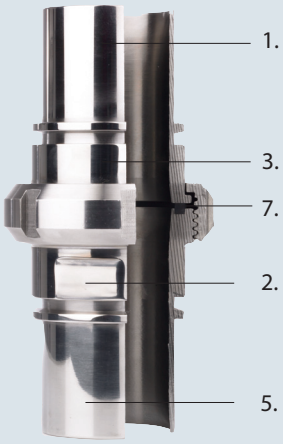
SMS 1145 (Swedish Manufacturing Standard) food couplings are used in the food, chemical and pharmaceutical industries.

OPERATION

SMS 1145 food couplings are connected in the same way as DIN 11851-compliant food couplings. The nut is slid across the head of the female coupling and onto the male coupling. The flat face of the female coupling is brought into contact with the turned-up seal of the male coupling. The nut is then tightened by hand or using a wrench.

LMC-Couplings offer male and female SMS 1145 food couplings with smooth or serrated hose shank. The smooth hose shank with collar is designed in accordance with EN 14420-2 / DIN2817 for assembly using RK and RKP safety clamps or FLEXOLINE® safety clamps. Where a serrated hose shank assembly is required, HRRK swage ferrules are recommended.

FEATURES



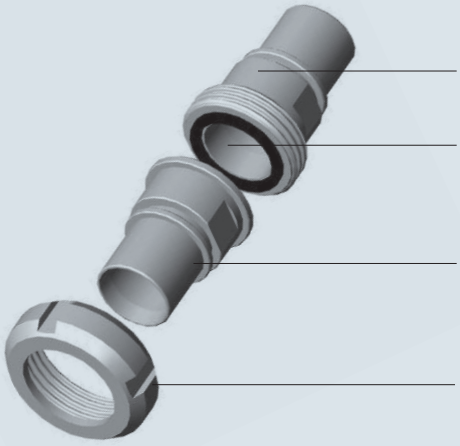
1. Electro-polished external surface for improved hygiene
2. Additional wrench surface to prevent twisting of the hose when fitting one half of the coupling to the other half
3. Extra-long head for easy assembly and disassembly + heat number + size
4. Low Ra-value of inner surface up to ≤1.6 µm
5. Hose shank for assembly with RK and RKP safety clamps, FLEXOLINE® safety clamps or HRRK or HRP swage ferrules
6. Easy assembly of a rubber protection ring
7. Standard EPDM seal, conforming FDA directive

FDA

ADI Animal Derived Ingredient free



CONNECTION



1. Male coupling with smooth hose shank type SMSM ... D
2. EPDM seal type DIN273 ...
3. Female coupling with smooth hose shank type SMSV ... D
4. Nut type DIN 272 ...

Food couplings SMS 1145 vs DIN 11851

	SMS 1145	DIN 11851
Female coupling	Flat face	Conical face
Male coupling	Turned-up seal	Deep seal
Seal	Square seal	U-shape seal
Male and female thread	Rounded thread	Rounded thread
	complying with DIN 405/1	complying with DIN 405/1
Max. working pressure	6 bar / 87 psi	40 bar / 580 psi

SMS 1145 DIN 11851



APPLICATION

For the food (beverage, pharmaceutical and chemical) industrie(s).

WORKING PRESSURE

6 bar / 87 psi

TEMPERATURE

-40°C / -40°F up to 145°C / 293°F

Hose, coupling, assembly method and seal must be chosen in relation with the disired temperature and working pressure.

MATERIAL

- Coupling
  Stainless steel AISI 316 - 1.4401 = hose shank coupling (standard)
  Stainless steel AISI 304 - 1.4301 = nut and cap (standard)

- Seal
  EPDM
  NBR, FPM on request available

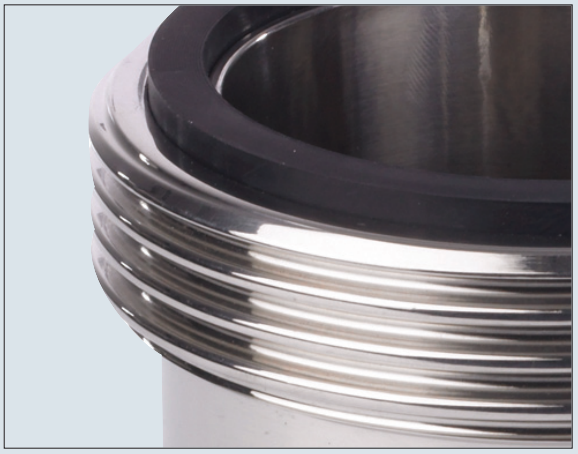
ASSEMBLY

1. RK and RKP safety clamps complying with EN 14420-3 / DIN 2817
2. FLEXOLINE® safety clamps
3. HRRK or HRP swage ferrules
4. Welding

THREADS

Food couplings complying with SMS 1145 are not interchangeable with DIN 11851 couplings. Although the threads of both couplings comply with DIN 405/1, precise dimensions vary, making them non-interchangeable.

ND	THREAD COMPLYING WITH DIN 405/1
25	RD 40 x 1/6"
32	RD 48 x 1/6"
38	RD 60 x 1/6"
51	RD 70 x 1/6"
63.5	RD 85 x 1/6"
76	RD 98 x 1/6"
101.6	RD 132 x 1/6"



RA-VALUE

Roughness average value (Ra-value) SMS 1145 couplings
1. Ra-value inner side ≤ 1.6 µm
2. Ra-value outer side ≤ 3.2 µm

Other Ra-values and Ra-report available on request.

FOOD COUPLINGS SMS 1145

FEMALE COUPLING WITH SMOOTH HOSE SHANK AND NUT

ND	Inch	For hose mm	Thread DIN 405/1	Weight/pc Kg	Reference
25	1"	25	RD 40 x 1/6"	0.23	SMSV025D
32	1.1/4"	32	RD 48 x 1/6"	0.32	SMSV032D
38	1.1/2"	38	RD 60 x 1/6"	0.51	SMSV038D
51	2"	50	RD 70 x 1/6"	0.70	SMSV050D
63.5	2.1/2"	63	RD 85 x 1/6"	1.04	SMSV063D
76	3"	75	RD 98 x 1/6"	1.61	SMSV075D
101.6	4"	100	RD 132 x 1/6"	3.32	SMSV100D



Hose shank standard: EN 14420-2 / DIN 2817
Coupling material: stainless steel AISI 316 - 1.4401
Nut material: stainless steel AISI 304 - 1.4301
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817 or FLEXOLINE® safety clamps

FEMALE COUPLING WITH SERRATED HOSE SHANK AND NUT

ND	Inch	For hose mm	Thread DIN 405/1	Weight/pc Kg	Reference
25	1"	25	RD 40 x 1/6"	0.24	SMSV025
32	1.1/4"	32	RD 48 x 1/6"	0.33	SMSV032
38	1.1/2"	38	RD 60 x 1/6"	0.53	SMSV038
51	2"	50	RD 70 x 1/6"	0.74	SMSV050
63.5	2.1/2"	63	RD 85 x 1/6"	1.14	SMSV063
76	3"	75	RD 98 x 1/6"	1.52	SMSV075
101.6	4"	100	RD 132 x 1/6"	3.02	SMSV100



Coupling material: stainless steel AISI 316 - 1.4401
Nut material: stainless steel AISI 304 - 1.4301
Assembly: HRRK swage ferrules

FEMALE COUPLING WITH SMOOTH HOSE SHANK - WITHOUT NUT

ND	Inch	For hose mm	Weight/pc Kg	Reference
25	1"	25	0.12	SMSV025DZM
32	1.1/4"	32	0.16	SMSV032DZM
38	1.1/2"	38	0.26	SMSV038DZM
51	2"	50	0.42	SMSV050DZM
63.5	2.1/2"	63	0.64	SMSV063DZM
76	3"	75	0.80	SMSV075DZM
101.6	4"	100	1.70	SMSV100DZM



Hose shank standard: EN 14420-2 / DIN 2817
Coupling material: stainless steel AISI 316 - 1.4401
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817 or FLEXOLINE® safety clamps

FOOD COUPLINGS SMS 1145

FEMALE COUPLING WITH SERRATED HOSE SHANK - WITHOUT NUT

ND	Inch	For hose mm	Weight/pc Kg	Reference
25	1"	25	0.13	SMSV025ZM
32	1.1/4"	32	0.17	SMSV032ZM
38	1.1/2"	38	0.28	SMSV038ZM
51	2"	50	0.42	SMSV050ZM
63.5	2.1/2"	63	0.65	SMSV063ZM
76	3"	75	0.87	SMSV075ZM
101.6	4"	100	1.38	SMSV100ZM



Coupling material: stainless steel AISI 316 - 1.4401
Assembly: HRRK swage ferrules

MALE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Thread DIN 405/1	Weight/pc Kg	Reference
25	1"	25	RD 40 x 1/6"	0.18	SMSM025D
32	1.1/4"	32	RD 48 x 1/6"	0.25	SMSM032D
38	1.1/2"	38	RD 60 x 1/6"	0.44	SMSM038D
51	2"	50	RD 70 x 1/6"	0.54	SMSM050D
63.5	2.1/2"	63	RD 85 x 1/6"	0.96	SMSM063D
76	3"	75	RD 98 x 1/6"	1.25	SMSM075D
101.6	4"	100	RD 132 x 1/6"	1.60	SMSM100D



Hose shank standard: EN 14420-2 / DIN 2817
Coupling material: stainless steel AISI 316 - 1.4401
Assembly: RK and RKP safety clamps EN 14420-3 / DIN 2817 or FLEXOLINE® safety clamps
Seal: EPDM black included

MALE COUPLING WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Thread DIN 405/1	Weight/pc Kg	Reference
25	1"	25	RD 40 x 1/6"	0.18	SMSM025
32	1.1/4"	32	RD 48 x 1/6"	0.25	SMSM032
38	1.1/2"	38	RD 60 x 1/6"	0.44	SMSM038
51	2"	50	RD 70 x 1/6"	0.60	SMSM050
63.5	2.1/2"	63	RD 85 x 1/6"	0.86	SMSM063
76	3"	75	RD 98 x 1/6"	1.18	SMSM075
101.6	4"	100	RD 132 x 1/6"	1.60	SMSM100



Coupling material: stainless steel AISI 316 - 1.4401
Assembly: HRRK swage ferrules
Seal: EPDM black included

FOOD COUPLINGS SMS 1145

NUT

ND	Inch	Thread DIN 405/1	OD Ø mm	ID Ø nut mm	Height mm	Weight/pc kg	Reference
25	1"	RD 40x1/6"	51.0	32.0	20.0	0.11	DIN272025
32	1.1/4"	RD 48x1/6"	60.0	40.0	22.0	0.16	DIN272032
38	1.1/2"	RD 60x1/6"	74.0	48.0	25.0	0.25	DIN272040
51	2"	RD 70x1/6"	84.0	60.50	26.0	0.32	DIN272050
63.5	2.1/2"	RD 85x1/6"	100.0	74.0	30.0	0.49	DIN272065
76	3"	RD 98x1/6"	114.0	87.0	32.0	0.65	DIN272080
101.6	4"	RD 132x1/6"	160.0	112.0	45.0	1.64	DIN272100



Nut material: AISI 304 - 1.4301
Other materials available on request

SEAL - EPDM

ND	Inch	OD Ø mm	ID Ø mm	Height mm	Weight/pc kg	Reference
25	1"	32.0	25.0	5.50	0.002	DIN273025
32	1.1/4"	40.0	32.0	5.50	0.003	DIN273032
38	1.1/2"	48.0	38.0	5.50	0.004	DIN273040
51	2"	61.0	51.0	5.50	0.005	DIN273050
63.5	2.1/2"	73.5	63.5	5.50	0.007	DIN273065
76	3"	86.0	76.0	5.50	0.009	DIN273076
101.6	4"	113.5	101.6	5.50	0.011	DIN273100



Material: EPDM, black
NBR, FPM on request available

FOOD COUPLINGS SMS 1145

PROTECTION RINGS FOR HRRK SWAGE FERRULES

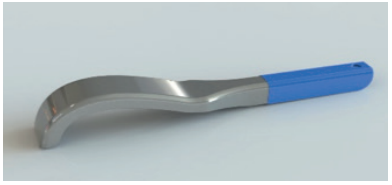
ND	Inch	For hose	OD mm	ID mm	Wall mm	Material	Reference
40	1.1/2	38 x 6.5	115	51	30	NBR	PRSF038065ER
40	1.1/2	38 x 9	115	56	30	NBR	PRSF038090ER
50	2	50 x 8	128	66	30	NBR	PRSF050008ER
50	2	50 x 11	128	72	30	NBR	PRSF050011ER
65	2.1/2	63 x 8	145	79	30	NBR	PRSF063008ER
65	2.1/2	63 x 12	145	87	30	NBR	PRSF063012ER
80	3	75 x 8	160	91	35	NBR	PRSF075008ER
80	3	75 x 12	160	99	35	NBR	PRSF075012ER
80	3	80 x 8	160	96	35	NBR	PRSF080008ER
100	4	100 x 8	180	116	35	NBR	PRSF100008ER
100	4	100 x 12	180	124	35	NBR	PRSF100012ER



MULTI-PURPOSE WRENCH FOR NUTS

ND	Inch	Material	Reference
25-100	1-4	Stainless steel	DINY

Stainless steel AISI 304 with rubber handle



STANDARD

Steam couplings complying with EN 14423/ DIN 2826 are available in female and male threaded screw couplings and in flange couplings. The screw couplings are available in galvanized steel, stainless steel or brass. The flanged couplings are available in galvanized steel or stainless steel.

OPERATION



Steam couplings complying with EN 14423 / DIN 2826 are used to assemble steam hoses complying with EN ISO 6134. The serrated hose shank with collar is designed to be assembled with RKS steam clamps complying with EN 14423 / DIN 2826. Under no circumstances RK safety clamps complying with EN 14420-3 / DIN 2817 shall be used. Compared with EN 14420-2 / DIN 2817-compliant smooth hose shanks, steam hose shanks complying with EN 14423 / DIN 2826 are serrated and are physically longer, larger and stronger.

Due to the high temperature applications in which steam couplings are used, PTFE or novatec® PREMIUM II thread seals are used for the female threaded-couplings.

APPLICATION

For saturated steam and hot water applications.

N.B.: Steam is dangerous. Never use quick-release couplings for steam applications. Extra care and attention should be taken when choosing the correct hose, fitting and clamping solution.

WORKING PRESSURE

Working pressure: 18 bar / 261 psi with a temperature of 210°C / 410°F
Test pressure: 90 bar / 1305 psi
Burst pressure: 180 bar / 2611 psi

TEMPERATURE

Saturated steam: +210°C / 410 °F
Hot water: +120°C / 248°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.



MATERIAL

- Coupling
  Stainless steel: AISI 304 / 1.4301
  Galvanized steel: 95MnPb28 – 1.0718
  Brass: CW614N / EN 12420

- Flange
  Swivel flange
  Galvanized carbon steel Rst 37.2
  Stainless steel AISI 316 / 1.4401
  Fixed flange
  Galvanized carbon steel Rst 37.2
  Stainless steel AISI 316 / 1.4401

- Seal
  For steam couplings
  novatec® PREMIUM II with para-aramid fibres (KEVLAR®) for brass and steel steam couplings
  PTFE for stainless steel steam couplings

  For steam flanges
  novatec® PREMIUM II with KEVLAR®

novatec® PREMIUM II is a registered trademark of Frenzelit
KEVLAR® is a registered trademark of Dupont Dow Elastomers

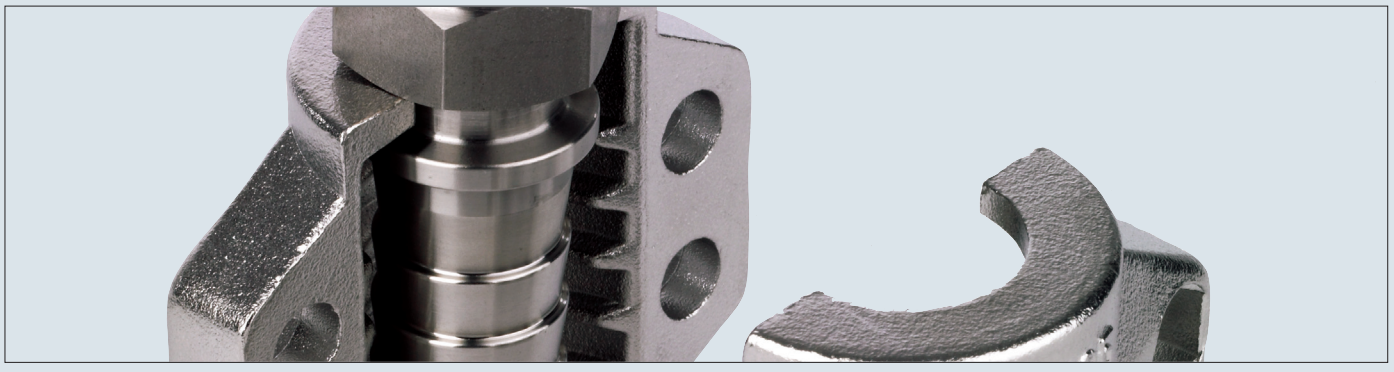
ASSEMBLY

RKS steam clamps complying with EN 14423 / DIN 2826

N.B.: The bolts used for RKS steam clamps are not standard bolts. They differ from standard bolts in terms of their length, diameter, overall thread length and material hardness. These bolts can be re-torqued, but it is not recommended that they are reused, since they are designed for one-off use only. We recommend using only factory-supplied replacement bolts.
Under no circumstances RK safety clamps complying with EN 14420-3 / DIN 2817, worm drive clamps or swage ferrules shall be used for steam applications.

THREADS

Male thread:	EN 10226-1 / DIN 2999, BSPT
	ANSI B.1.20.1, NPT
Female thread:	EN ISO 228-1, BSP
	ANSI B.1.20.1, NPT available on request



STEAM COUPLINGS

MALE THREADED WITH HOSE SHANK

ND	Inch	For hose mm	Thread	Material	Weight/pc Kg	Reference
15	1/2"	13	R 1/2	Galvanized steel	0.10	RMSS013
20	3/4"	19	R 3/4	Galvanized steel	0.17	RMSS019
25	1"	25	R 1	Galvanized steel	0.26	RMSS025
32	1.1/4"	32	R 1.1/4	Galvanized steel	0.40	RMSS032
40	1.1/2"	38	R 1.1/2	Galvanized steel	0.51	RMSS038
50	2"	50	R 2	Galvanized steel	0.80	RMSS050
15	1/2"	13	NPT 1/2	Galvanized steel	0.10	RMSS013N
20	3/4"	19	NPT 3/4	Galvanized steel	0.17	RMSS019N
25	1"	25	NPT 1	Galvanized steel	0.26	RMSS025N
32	1.1/4"	32	NPT 1.1/4	Galvanized steel	0.40	RMSS032N
40	1.1/2"	38	NPT 1.1/2	Galvanized steel	0.51	RMSS038N
50	2"	50	NPT 2	Galvanized steel	0.80	RMSS050N
15	1/2"	13	R 1/2	Stainless steel	0.11	RMSR013
20	3/4"	19	R 3/4	Stainless steel	0.17	RMSR019
25	1"	25	R 1	Stainless steel	0.25	RMSR025
32	1.1/4"	32	R 1.1/4	Stainless steel	0.39	RMSR032
40	1.1/2"	38	R 1.1/2	Stainless steel	0.51	RMSR038
50	2"	50	R 2	Stainless steel	0.83	RMSR050
15	1/2"	13	NPT 1/2	Stainless steel	0.11	RMSR013N
20	3/4"	19	NPT 3/4	Stainless steel	0.17	RMSR019N
25	1"	25	NPT 1	Stainless steel	0.25	RMSR025N
32	1.1/4"	32	NPT 1.1/4	Stainless steel	0.39	RMSR032N
40	1.1/2"	38	NPT 1.1/2	Stainless steel	0.51	RMSR038N
50	2"	50	NPT 2	Stainless steel	0.83	RMSR050N
15	1/2"	13	R 1/2	Brass	0.12	RMSM013
20	3/4"	19	R 3/4	Brass	0.18	RMSM019
25	1"	25	R 1	Brass	0.28	RMSM025
32	1.1/4"	32	R 1.1/4	Brass	0.43	RMSM032
40	1.1/2"	38	R 1.1/2	Brass	0.52	RMSM038
50	2"	50	R 2	Brass	0.89	RMSM050
15	1/2"	13	NPT 1/2	Brass	0.12	RMSM013N
20	3/4"	19	NPT 3/4	Brass	0.18	RMSM019N
25	1"	25	NPT 1	Brass	0.28	RMSM025N
32	1.1/4"	32	NPT 1.1/4	Brass	0.43	RMSM032N
40	1.1/2"	38	NPT 1.1/2	Brass	0.43	RMSM038N
50	2"	50	NPT 2	Brass	0.89	RMSM050N







Male thread: EN 10226-1 / DIN 2999, BSPT
ANSI B 1.20.1, NPT
Assembly: RKS steam clamps complying with EN 14423 / DIN 2826
Stainless steel AISI 304 - 1.4301

STEAM COUPLINGS

FEMALE THREADED WITH HOSE SHANK

ND	Inch	For hose mm	Thread EN ISO 228-1	Thread seal	Material	Weight/pc Kg	Reference
15	1/2"	13	G 1/2	novatec® PREMIUM II	Galvanized steel	0.11	RVSS013
20	3/4"	19	G 3/4	novatec® PREMIUM II	Galvanized steel	0.18	RVSS019
25	1"	25	G 1	novatec® PREMIUM II	Galvanized steel	0.26	RVSS025
32	1.1/4"	32	G 1.1/4	novatec®I PREMIUM II	Galvanized steel	0.39	RVSS032
40	1.1/2"	38	G 1.1/2	novatec® PREMIUM II	Galvanized steel	0.48	RVSS038
50	2"	50	G 2	novatec® PREMIUM II	Galvanized steel	0.80	RVSS050
15	1/2"	13	G 1/2	PTFE	Stainless steel	0.11	RVSR013
20	3/4"	19	G 3/4	PTFE	Stainless steel	0.18	RVSR019
25	1"	25	G 1	PTFE	Stainless steel	0.27	RVSR025
32	1.1/4"	32	G 1.1/4	PTFE	Stainless steel	0.39	RVSR032
40	1.1/2"	38	G 1.1/2	PTFE	Stainless steel	0.49	RVSR038
50	2"	50	G 2	PTFE	Stainless steel	0.81	RVSR050
15	1/2"	13	G 1/2	novatec® PREMIUM II	Brass	0.12	RVSM013
20	3/4"	19	G 3/4	novatec® PREMIUM II	Brass	0.18	RVSM019
25	1"	25	G 1	novatec® PREMIUM II	Brass	0.28	RVSM025
32	1.1/4"	32	G 1.1/4	novatec® PREMIUM II	Brass	0.44	RVSM032
40	1.1/2"	38	G 1.1/2	novatec® PREMIUM II	Brass	0.54	RVSM038
50	2"	50	G 2	novatec® PREMIUM II	Brass	0.85	RVSM050







Female thread: EN ISO 228-1, BSP

Assembly: RKS steam clamps complying with EN 14423 / DIN 2826

Stainless steel AISI 304 - 1.4301

Thread seal: novatec® PREMIUM II with KEVLAR®

novatec® PREMIUM II is a registered trademark of Frenzelit - KEVLAR® is a registered trademark of Dupont Dow Elastomers

STEAM COUPLINGS

SWIVEL STEAM FLANGE

ND	Inch	Flange pressure class	For hose mm	Material hose shank	Material flange	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN 40	13	Steel	Steel	1.30	FLMG013
20	3/4"	EN 1092-1-PN 40	19	Steel	Steel	1.62	FLMG019
25	1"	EN 1092-1-PN 40	25	Steel	Steel	2.48	FLMG025
32	1 1/4"	EN 1092-1-PN 40	32	Steel	Steel	3.00	FLMG032
40	1 1/2"	EN 1092-1-PN 40	38	Steel	Steel	4.30	FLMG038
50	2"	EN 1092-1-PN 40	50	Steel	Steel	5.30	FLMG050



15	1/2"	EN 1092-1-PN 40	13	SS	SS	1.24	RRFLMG013
20	3/4"	EN 1092-1-PN 40	19	SS	SS	1.77	RRFLMG019
25	1"	EN 1092-1-PN 40	25	SS	SS	2.32	RRFLMG025
32	1 1/4"	EN 1092-1-PN 40	32	SS	SS	3.10	RRFLMG032
40	1 1/2"	EN 1092-1-PN 40	38	SS	SS	4.20	RRFLMG038
50	2"	EN 1092-1-PN 40	50	SS	SS	5.80	RRFLMG050



15	1/2"	EN 1092-1-PN 40	13	SS	Steel	1.24	RSFLMG013
20	3/4"	EN 1092-1-PN 40	19	SS	Steel	1.77	RSFLMG019
25	1"	EN 1092-1-PN 40	25	SS	Steel	2.32	RSFLMG025
32	1 1/4"	EN 1092-1-PN 40	32	SS	Steel	3.40	RSFLMG032
40	1 1/2"	EN 1092-1-PN 40	38	SS	Steel	3.91	RSFLMG038
50	2"	EN 1092-1-PN 40	50	SS	Steel	5.20	RSFLMG050



15	1/2"	EN 1092-1-PN 40	13	Steel	Steel	1.40	FLMGP4013
20	3/4"	EN 1092-1-PN 40	19	Steel	Steel	1.92	FLMGP4019
25	1"	EN 1092-1-PN 40	25	Steel	Steel	2.58	FLMGP4025
32	1 1/4"	EN 1092-1-PN 40	32	Steel	Steel	3.20	FLMGP4032
40	1 1/2"	EN 1092-1-PN 40	38	Steel	Steel	4.50	FLMGP4038
50	2"	EN 1092-1-PN 40	50	Steel	Steel	5.80	FLMGP4050



Swivel flange: EN 1092-1 / type 04

ASTM / A 182/ ANSI B16.5, ASA 150 lbs, ASA 300 lbs

Assembly: RKS steam clamps complying with EN 14423 / DIN 2826

SS = Stainless steel AISI 316 - 1.4401

Steel = galvanized steel

STEAM COUPLINGS

SWIVEL STEAM FLANGE

ND	Inch	Flange pressure class	For hose mm	Material hose shank	Material flange	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN 40	13	SS	SS	1.24	RRFLMGP4013
20	3/4"	EN 1092-1-PN 40	19	SS	SS	1.77	RRFLMGP4019
25	1"	EN 1092-1-PN 40	25	SS	SS	2.32	RRFLMGP4025
32	1 1/4"	EN 1092-1-PN 40	32	SS	SS	3.10	RRFLMGP4032
40	1 1/2"	EN 1092-1-PN 40	38	SS	SS	4.20	RRFLMGP4038
50	2"	EN 1092-1-PN 40	50	SS	SS	5.80	RRFLMGP4050



15	1/2"	EN 1092-1-PN 40	13	SS	Steel	1.44	RSFLMGP4013
20	3/4"	EN 1092-1-PN 40	19	SS	Steel	1.97	RSFLMGP4019
25	1"	EN 1092-1-PN 40	25	SS	Steel	2.52	RSFLMGP4025
32	1 1/4"	EN 1092-1-PN 40	32	SS	Steel	3.40	RSFLMGP4032
40	1 1/2"	EN 1092-1-PN 40	38	SS	Steel	4.51	RSFLMGP4038
50	2"	EN 1092-1-PN 40	50	SS	Steel	5.80	RSFLMGP4050



15	1/2"	ASTM 150 lbs	13	Steel	Steel	1.00	FLMGA1013
20	3/4"	ASTM 150 lbs	19	Steel	Steel	1.32	FLMGA1019
25	1"	ASTM 150 lbs	25	Steel	Steel	1.88	FLMGA1025
32	1 1/4"	ASTM 150 lbs	32	Steel	Steel	2.50	FLMGA1032
40	1 1/2"	ASTM 150 lbs	38	Steel	Steel	3.75	FLMGA1038
50	2"	ASTM 150 lbs	50	Steel	Steel	5.10	FLMGA1050



15	1/2"	ASTM 300 lbs	13	Steel	Steel	1.60	FLMGA3013
20	3/4"	ASTM 300 lbs	19	Steel	Steel	2.02	FLMGA3019
25	1"	ASTM 300 lbs	25	Steel	Steel	2.68	FLMGA3025
32	1 1/4"	ASTM 300 lbs	32	Steel	Steel	3.25	FLMGA3032
40	1 1/2"	ASTM 300 lbs	38	Steel	Steel	4.90	FLMGA3038
50	2"	ASTM 300 lbs	50	Steel	Steel	5.90	FLMGA3050



Swivel flange: EN 1092-1 / type 04

ASTM / A 182/ ANSI B16.5, ASA 150 lbs, ASA 300 lbs

Assembly: RKS steam clamps complying with EN 14423 / DIN 2826

SS = Stainless steel AISI 316 - 1.4401

Steel = galvanized steel

STEAM COUPLINGS

FIXED STEAM FLANGE

ND	Inch	Flange pressure class	For hose mm	Material flange	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN 40	13	Steel	0.77	FVMG013
20	3/4"	EN 1092-1-PN 40	19	Steel	1.20	FVMG019
25	1"	EN 1092-1-PN 40	25	Steel	1.32	FVMG025
32	1 1/4"	EN 1092-1-PN 40	32	Steel	1.98	FVMG032
40	1 1/2"	EN 1092-1-PN 40	38	Steel	2.40	FVMG038
50	2"	EN 1092-1-PN 40	50	Steel	3.22	FVMG050



15	1/2"	EN 1092-1-PN 40	13	SS	0.79	RFVMG013
20	3/4"	EN 1092-1-PN 40	19	SS	1.24	RFVMG019
25	1"	EN 1092-1-PN 40	25	SS	1.47	RFVMG025
32	1 1/4"	EN 1092-1-PN 40	32	SS	2.02	RFVMG032
40	1 1/2"	EN 1092-1-PN 40	38	SS	3.10	RFVMG038
50	2"	EN 1092-1-PN 40	50	SS	3.51	RFVMG050



15	1/2"	EN 1092-1-PN 40	13	Steel	0.87	FVMGP4013
20	3/4"	EN 1092-1-PN 40	19	Steel	1.30	FVMGP4019
25	1"	EN 1092-1-PN 40	25	Steel	1.52	FVMGP4025
32	1 1/4"	EN 1092-1-PN 40	32	Steel	2.18	FVMGP4032
40	1 1/2"	EN 1092-1-PN 40	38	Steel	2.90	FVMGP4038
50	2"	EN 1092-1-PN 40	50	Steel	3.52	FVMGP4050



Fixed flange: EN 1092-1 / type 11

ASTM / A 182/ ANSI B16.5, ASA 150 lbs, ASA 300 lbs

Assembly: RKS steam clamps complying with EN 14423 / DIN 2826

SS = Stainless steel AISI 316 - 1.4401

Steel = galvanized steel

STEAM COUPLINGS

FIXED STEAM FLANGE

ND	Inch	Flange pressure class	For hose mm	Material flange	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN 40	13	SS	0.87	RFVMG4013
20	3/4"	EN 1092-1-PN 40	19	SS	1.34	RFVMG4019
25	1"	EN 1092-1-PN 40	25	SS	1.67	RFVMG4025
32	1 1/4"	EN 1092-1-PN 40	32	SS	2.62	RFVMG4032
40	1 1/2"	EN 1092-1-PN 40	38	SS	3.10	RFVMG4038
50	2"	EN 1092-1-PN 40	50	SS	3.81	RFVMG4050



15	1/2"	ASTM 150 lbs	13	Steel	1.07	FVMGA1013
20	3/4"	ASTM 150 lbs	19	Steel	1.10	FVMGA1019
25	1"	ASTM 150 lbs	25	Steel	1.62	FVMGA1025
32	1 1/4"	ASTM 150 lbs	32	Steel	1.78	FVMGA1032
40	1 1/2"	ASTM 150 lbs	38	Steel	2.30	FVMGA1038
50	2"	ASTM 150 lbs	50	Steel	3.42	FVMGA1050



15	1/2"	ASTM 300 lbs	13	Steel	1.07	FVMGA3013
20	3/4"	ASTM 300 lbs	19	Steel	1.60	FVMGA3019
25	1"	ASTM 300 lbs	25	Steel	2.02	FVMGA3025
32	1 1/4"	ASTM 300 lbs	32	Steel	2.68	FVMGA3032
40	1 1/2"	ASTM 300 lbs	38	Steel	3.70	FVMGA3038
50	2"	ASTM 300 lbs	50	Steel	4.82	FVMGA3050



Fixed flange: EN 1092-1 / type 11

ASTM / A 182/ ANSI B16.5, ASA 150 lbs, ASA 300 lbs

Assembly: RKS steam clamps complying with EN 14423 / DIN 2826

Stainless steel AISI 316 - 1.4401

Steel = galvanized steel

THREAD SEAL - novatec® PREMIUM II

ND	Inch	Material	OD Ø mm	ID Ø mm	Height / mm	Weight/pc Kg	Reference
15	1/2"	novatec® PREMIUM II	20.0	13.0	2.0	0.001	XRVSN013
20	3/4"	novatec® PREMIUM II	26.0	18.0	2.0	0.001	XRVSN019
25	1"	novatec® PREMIUM II	33.0	23.0	2.0	0.002	XRVSN025
32	1.1/4"	novatec® PREMIUM II	42.0	33.0	2.0	0.002	XRVSN032
40	1.1/2"	novatec® PREMIUM II	48.0	38.0	2.0	0.002	XRVSN038
50	2"	novatec® PREMIUM II	60.0	49.0	2.0	0.003	XRVSN050



novatec® PREMIUM II with para-aramid fibre (KEVLAR®) for brass and steel steam couplings

novatec® PREMIUM II is a registered trademark of Frenzelit; KEVLAR® is a registered trademark of Dupont Dow Elastomers

THREAD SEAL - PTFE

ND	Inch	Material	OD Ø mm	ID Ø mm	Height / mm	Weight/pc Kg	Reference
15	1/2"	PTFE	20.0	13.0	1.5	0.001	X2RP013
20	3/4"	PTFE	26.0	19.0	1.5	0.001	X2RP020
25	1"	PTFE	33.0	24.0	2.0	0.002	X2RP025
32	1.1/4"	PTFE	42.0	33.0	2.0	0.002	X2RP032
40	1.1/2"	PTFE	48.0	39.0	2.0	0.003	X2RP038
50	2"	PTFE	60.0	49.0	2.0	0.005	X2RP050

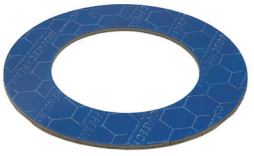


PTFE for stainless steel steam couplings, tolerances complying with EN 14420-5

STEAM COUPLINGS

RAISED FACE GASKET FOR EN / DIN FLANGE - novatec® PREMIUM II WITH KEVLAR®

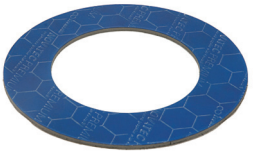
ND	EN-DIN	OD Ø mm	ID Ø mm	Height mm	Colour	Reference
15	PN 10/40	51.0	22.0	2.0	Blue	FXN013DINRF
20	PN 10/40	61.0	27.0	2.0	Blue	FXN019DINRF
25	PN 10/40	71.0	34.0	2.0	Blue	FXN025DINRF
32	PN 10/40	82.0	43.0	2.0	Blue	FXN032DINRF
40	PN 10/40	92.0	49.0	2.0	Blue	FXN038DINRF
50	PN 10/40	107.0	61.0	2.0	Blue	FXN050DINRF



novatec® PREMIUM II is a registered trademark of Frenzelit
KEVLAR® is a registered trademark of Dupont Dow Elastomers
Seal colour is subject to change without prior notice
Gasket dimensions in compliance with EN 1514-1 for flanges complying with EN 1092-1 and DIN 2631, DIN 2632, DIN 2633 and DIN 2634

RAISED FACE SEAL FOR ANSI FLANGE - novatec® PREMIUM II WITH KEVLAR®

ND	ANSI	OD Ø mm	ID Ø mm	Height mm	Colour	Reference
1/2"	ASA 150lbs	47.5	22.0	2.0	Blue	FXN013A1RF
3/4"	ASA 150lbs	57.0	27.0	2.0	Blue	FXN019A1RF
1"	ASA 150lbs	66.5	34.0	2.0	Blue	FXN025A1RF
1.1/4"	ASA 150lbs	76.0	43.0	2.0	Blue	FXN032A1RF
1.1/2"	ASA 150lbs	85.5	49.0	2.0	Blue	FXN038A1RF
2"	ASA 150lbs	104.5	61.0	2.0	Blue	FXN050A1RF



novatec® PREMIUM II is a registered trademark of Frenzelit
KEVLAR® is a registered trademark of Dupont Dow Elastomers
Seal colour is subject to change without prior notice
Gasket dimensions in compliance with EN 12560-1 for flanges complying with ASTM A 182 / ANSI B 16.5 ASA 150lbs

RKS STEAM CLAMPS EN 14423 / DIN 2826: BRASS

ND	For hose mm	OD hose min-max mm	Material	Height mm	Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight kg	Reference
15	13 x 6	24 - 26	Brass	65	53	4	M6	0.33	RKS013
20	19 x 7	32 - 34	Brass	65	68	4	M8	0.50	RKS019
25	25 x 7.5	39 - 41	Brass	65	77	4	M8	0.58	RKS025
32	32 x 8	47 - 50	Brass	75	86	4	M8	0.72	RKS032
40	38 x 8	53 - 56	Brass	90	101	4	M10	1.30	RKS038
50	50 x 9	67 - 69	Brass	100	111	4	M10	1.58	RKS050



Production method: forged
Set of RKS steam clamps = one pair of clamps, nuts and bolts included
Bolts DIN 912 / EN ISO 4762, zinc plated 8.8
Nuts DIN 934 / EN ISO 4032, zinc plated 8

RKS STEAM CLAMPS EN 14423 / DIN 2826: STAINLESS STEEL

ND	For hose mm	OD hose min-max mm	Material	Height mm	Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight kg	Reference
13	13 x 6	24 - 26	SS	65	53	4	M6	0.31	RKSR013
20	19 x 7	32 - 34	SS	65	68	4	M8	0.46	RKSR019
25	25 x 7.5	39 - 41	SS	65	77	4	M8	0.53	RKSR025
32	32 x 8	47 - 50	SS	75	86	4	M8	0.78	RKSR032
40	38 x 8	53 - 56	SS	90	101	4	M10	1.10	RKSR038
50	50 x 9	67 - 69	SS	100	111	4	M10	1.29	RKSR050



Production method: investment casting
Set of RKS steam clamps = one pair of clamps, nuts and bolts included
Bolts DIN 912 / EN ISO 4762, stainless steel A.2
Nuts DIN 934 / EN ISO 4032, stainless steel A.2

STANDARD

LMC's DINBO couplings have been developed for use in steam applications up to 18 bar / 260 psi. The hose shank is designed in compliance with EN 14423 / DIN 2826 for assembly with RKS steam clamps complying with EN 14423 / DIN 2826.

OPERATION

The round head of the hose shank is designed to fit the ground joint coupling. The spud forms one half of the LMC's DINBO coupling and is usually permanently fixed to the equipment. The hose shank and wing nut are clamped to the hose using RKS steam clamps complying with EN 14423 / DIN 2826. The spud and hose shank are connected/disconnected by rotating the wing nut on the spud to achieve a mechanical and pressure connection. The rounded head of the hose shank contacts the bevelled polymer insert of the spud, creating a soft-to-hard polymer connection.

APPLICATION

DINBO couplings are commonly used for compressed air, water, liquid petroleum gas, fluid petroleum products, chemical, potable fluids and almost any other type of fluid or gas. They can be used with all types of rubber, synthetic, plastic, metal (with special stems) or semi-metal hoses.

N.B.: Steam is dangerous. Never use quick-release couplings for steam applications.

WORKING PRESSURE

18 bar / 260 psi

TEMPERATURE

-51°C / -60°F up to 232°C / 450°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature range.

MATERIAL

- Coupling
  Stainless steel AISI 316 - 1.4401
  Zinc plated steel
  Bronze 2.10 90.01 G-CuSn7ZnPb

- Seal
  PTFE + 15% graphite



ASSEMBLY

RKS steam clamps complying with EN 14423 / DIN 2826

N.B.: The bolts used for RKS steam clamps are not standard bolts. They differ from standard bolts in terms of their length, diameter, overall thread length and material hardness. The bolts can be re-torqued, but this is not recommended, since they are designed for one-off use only. We recommend using only factory-supplied replacement bolts.

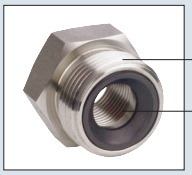
THREADS

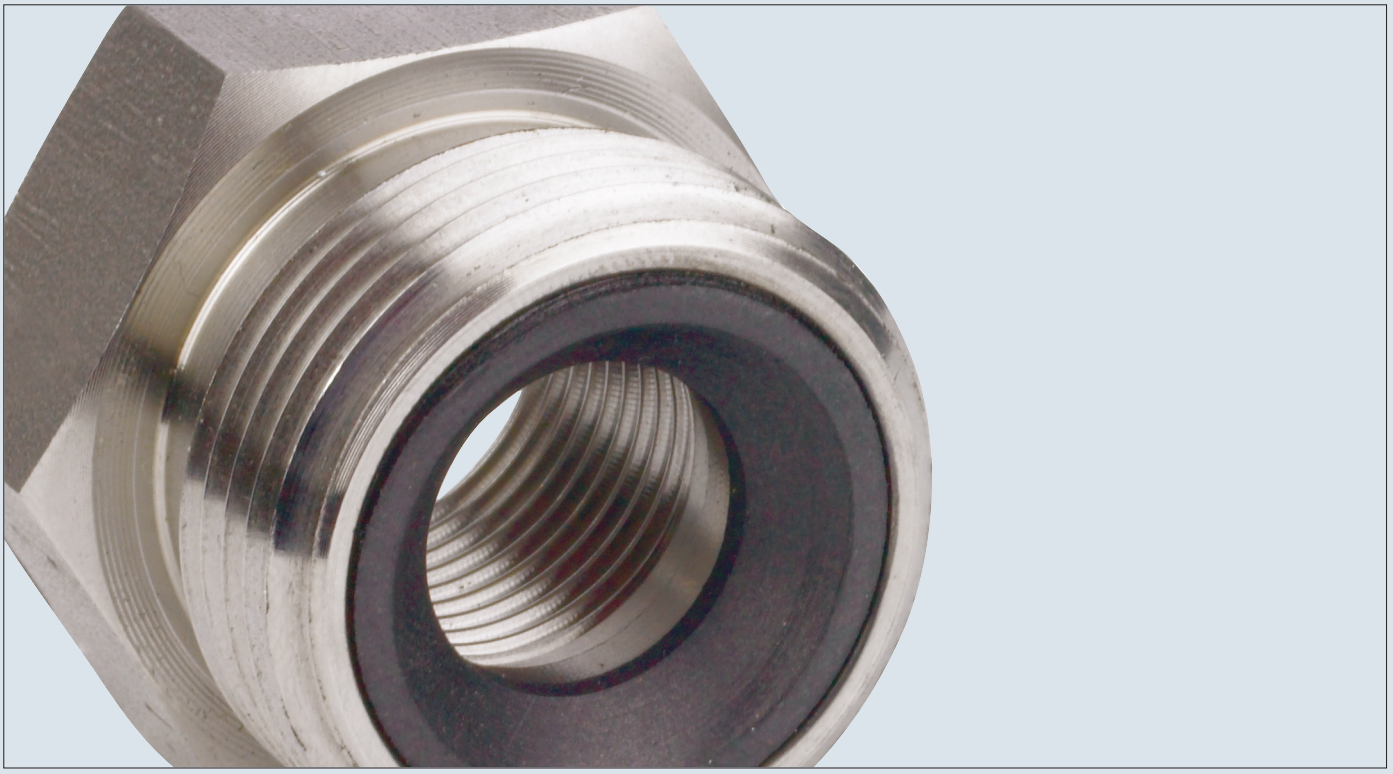
Wing nut: NPSM (American National Straight Pipe thread for Mechanical Joints)

Spud

Female thread: EN 10226-1 / DIN 2999, BSPT (NPT available on request)

Male thread: NPSM





DINBO STEAM COUPLINGS

FEMALE SPUD, HOSE SHANK AND WING NUT

ND	Inch	For hose mm	Material hose shank + nut	Spud material	Weight/pc Kg	Reference
15	1/2"	13	Steel	Steel	0.35	BGFL013
20	3/4"	19	Steel	Steel	0.94	BGFL019
25	1"	25	Steel	Steel	0.82	BGFL025
15	1/2"	13	SS	SS	0.39	BGFL013RR
20	3/4"	19	SS	SS	0.95	BGFL019RR
25	1"	25	SS	SS	0.90	BGFL025RR
15	1/2"	13	SS	Bronze	0.38	BGFL013RB
20	3/4"	19	SS	Bronze	0.99	BGFL019RB
25	1"	25	SS	Bronze	0.92	BGFL025RB



Assembly: RKS steam clamps complying with EN 14423 / DIN 2826
Seal: PTFE +15% graphite
Stainless steel AISI 316 - 1.4401; Zinc plated steel

WING NUT

ND	Inch	Material	Thread	Weight/pc Kg	Reference
15	1/2"	Steel	NPSM 1"	0.13	BOML013
20	3/4"	Steel	NPSM 1 1/2"	0.33	BOML019
25	1"	Steel	NPSM 1 1/2"	0.33	BOML019
15	1/2"	Stainless steel	NPSM 1"	0.15	BOML013R
20	3/4"	Stainless steel	NPSM 1 1/2"	0.37	BOML019R
25	1"	Stainless steel	NPSM 1 1/2"	0.37	BOML019R



Female thread: NPSM
Stainless steel AISI 316 - 1.4401; Zinc plated steel

HOSE SHANK

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
15	1/2″	13	Steel	0.18	BOPL013
20	3/4"	19	Steel	0.20	BOPL019
25	1"	25	Steel	0.25	BOPL025
15	1/2"	13	Stainless steel	0.10	BOPL013R
20	3/4"	19	Stainless steel	0.24	BOPL019R
25	1"	25	Stainless steel	0.25	BOPL025R



Hose shank: EN 14423 / DIN 2826
Assembly: RKS steam clamps complying with EN 14423 / DIN 2826
Stainless steel AISI 316 - 1.4401; Zinc plated steel

PRODUCT RANGE

FEMALE SPUD FOR WING NUT

ND	Inch	Material	Male thread	Female thread EN 10226-1	Weight/pc Kg	Reference
15	1/2"	Steel	NPSM 1"	R 1/2"	0.11	BOF013
20	3/4"	Steel	NPSM 1 1/2"	R 3/4"	0.32	BOF019
25	1"	Steel	NPSM 1 1/2"	R 1"	0.25	BOF025
15	1/2"	Stainless steel	NPSM 1"	R 1/2"	0.14	BOF013R
20	3/4"	Stainless steel	NPSM 1 1/2"	R 3/4"	0.34	BOF019R
25	1"	Stainless steel	NPSM 1 1/2"	R 1"	0.28	BOF025R
15	1/2"	Bronze	NPSM 1"	R 1/2"	0.13	BOF013B
20	3/4"	Bronze	NPSM 1 1/2"	R 3/4"	0.38	BOF019B
25	1"	Bronze	NPSM 1 1/2"	R 1"	0.30	BOF025B



Male thread: NPSM
Female thread: EN 10226-1 / DIN 2999, BSPT
Seal: PTFE +15% graphite
Stainless steel AISI 316 - 1.4401; Zinc plated steel

RKS STEAM CLAMPS EN 14423 / DIN 2826: BRASS

ND	For hose mm	OD hose min-max mm	Material	Height mm	Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight kg	Reference
15	13 x 6	24 - 26	Brass	65	53	4	M6	0.33	RKS013
20	19 x 7	32 - 34	Brass	65	68	4	M8	0.50	RKS019
25	25 x 7.5	39 - 41	Brass	65	77	4	M8	0.58	RKS025



Production method: forged
Set of RKS steam clamps = one pair of clamps, nuts and bolts included
Bolts DIN 912 / EN ISO 4762, zinc plated 8.8
Nuts DIN 934 / EN ISO 4032, zinc plated 8

RKS STEAM CLAMPS EN 14423 / DIN 2826: STAINLESS STEEL

ND	For hose mm	OD hose min-max mm	Material	Height mm	Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight kg	Reference
13	13 x 6	24 - 26	SS	65	53	4	M6	0.31	RKSR013
20	19 x 7	32 - 34	SS	65	68	4	M8	0.46	RKSR019
25	25 x 7.5	39 - 41	SS	65	77	4	M8	0.53	RKSR025



Production method: investment casting
Set of RKS steam clamps = one pair of clamps, nuts and bolts included
Bolts DIN 912 / EN ISO 4762, stainless steel A.2
Nuts DIN 934 / EN ISO 4032, stainless steel A.2

The perfect connection between rotating hoses and stationary parts

Do you need to connect fixed parts to moving sections in your installation? LMC manufactures a swivel coupling that will forever put an end to leakage issues. Rotapoint® swivel couplings are the perfect connection between rotating hoses and stationary parts.

The Rotapoint swivel is the ideal swivel for hoses where torsion can occur, suitable for various chemical liquids and high temperatures.

TEMPERATURE

-20 ° C to +180 ° C

MATERIAL

Coupling

- Aluminum
- Stainless steel AISI 316
- Brass
- Other materials upon request available

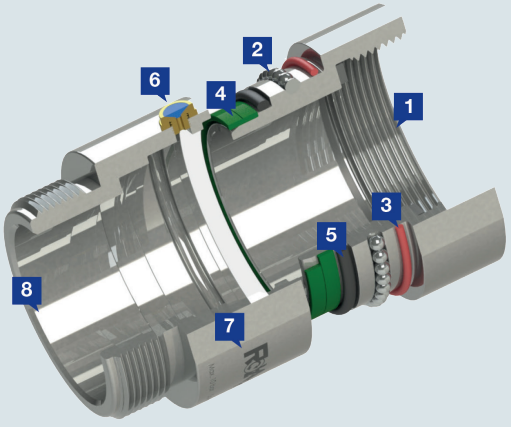
Seal

- FPM standard, others (for food, steam etc.) upon request

Standard available with a male / female BSP thread

CHARACTERISTICS

- low maintenance
- easy assembly
- compact design
- equipped with a grease nipple
- max. speed 40 RPM, depending on the operating pressure
- not suitable for continuous rotation



1. Female thread, flat sealed
2. Hardened SS440C ball bearings
3. Wear identification silicon dust protection
4. Stabilisation gliding strips self lubricated
5. Precision sealing ring, low friction
6. Grease nipple
7. Performance and traceability marking
8. Male thread, flat sealed with extended head



ROTAPOINT SWIVEL COUPLINGS

ROTAPOINT SWIVEL COUPLING MALE/FEMALE

ND	Inch	Thread EN ISO 228-1	Material	Working pressure	Rotations per min.	Temp. °C	Reference
15	1/2	G 1/2	Stainless steel	25	40	180	ROTAPOINT013SS
20	3/4	G 3/4	Stainless steel	25	40	180	ROTAPOINT019SS
25	1	G 1	Stainless steel	25	40	180	ROTAPOINT025SS
32	1.1/4	G 1.1/4	Stainless steel	20	35	180	ROTAPOINT032SS
40	1.1/2	G 1.1/2	Stainless steel	20	35	180	ROTAPOINT038SS
50	2	G 2	Stainless steel	16	30	180	ROTAPOINT050SS
65	2.1/2	G 2.1/2	Stainless steel	16	-	180	on request
80	3	G 3	Stainless steel	10	30	180	ROTAPOINT075SS
100	4	G 4	Stainless steel	10	20	180	ROTAPOINT100SS



ROTAPOINT SWIVEL COUPLING MALE/FEMALE

ND	Inch	Thread EN ISO 228-1	Material	Working pressure	Rotations per min.	Temp. °C	Reference
15	1/2	G 1/2	Brass	40	40	120	ROTAPOINT013BR
20	3/4	G 3/4	Brass	40	40	120	ROTAPOINT019BR
25	1	G 1	Brass	40	40	120	ROTAPOINT025BR
32	1.1/4	G 1.1/4	Brass	20	35	120	ROTAPOINT032BR
40	1.1/2	G 1.1/2	Brass	20	35	120	ROTAPOINT038BR
50	2	G 2	Brass	16	35	120	ROTAPOINT050BR
65	2.1/2	G 2.1/2	Brass	16	-	120	on request
80	3	G 3	Brass	16	30	120	ROTAPOINT075BR
100	4	G 4	Brass	10	30	120	ROTAPOINT100BR



ROTAPOINT SWIVEL COUPLING MALE/FEMALE

ND	Inch	Thread EN ISO 228-1	Material	Working pressure	Rotations per min.	Temp. °C	Reference
15	1/2	G 1/2	Aluminium	16	40	80	ROTAPOINT013A5
20	3/4	G 3/4	Aluminium	16	40	80	ROTAPOINT019A5
25	1	G 1	Aluminium	16	40	80	ROTAPOINT025A5
32	1.1/4	G 1.1/4	Aluminium	16	35	80	ROTAPOINT032A5
40	1.1/2	G 1.1/2	Aluminium	16	35	80	ROTAPOINT038A5
50	2	G 2	Aluminium	16	30	80	ROTAPOINT050A5
65	2.1/2	G 2.1/2	Aluminium	16	-	80	on request
80	3	G 3	Aluminium	10	25	80	ROTAPOINT075A5
100	4	G 4	Aluminium	10	20	80	ROTAPOINT100A5



C

FLANGE COUPLINGS

C.1. Flange couplings

STANDARD

Flange hose couplings are used to connect rubber, pvc and thermoplastic hoses.

OPERATION

A flange coupling is fitted to a rubber, pvc or thermoplastic hose using a hose shank coupling, which is inserted into the hose. The hose shank may be smooth in compliance with EN 14420-2 / DIN 2817, or serrated with collar.

1. Flange couplings with smooth hose shanks complying with EN 14420-2 / DIN 2817 are developed to comply with EN 14420-4, which makes them suitable for assembly using RK and RKP safety clamps complying with EN 14220-3 / DIN 2817 or FLEXOLINE® safety clamps for thin wall hoses.

2. Serrated hose shanks with collars are recommended for assembly using HRRK swage ferrules, worm drive, band or bolt clamps.

The hose shank can be assembled with a fixed or swivel flange. A flange-to-hose connection should preferably be fitted with at least one swivel flange. During assembly, the connection with the fixed flange is fitted to the piping system first, followed by the swivel flange. The swivel flange prevents twisting of the hose during assembly.

APPLICATION

To connect rubber, pvc and thermoplastic hoses.

WORKING PRESSURE

EN-DIN FLANGES	ANSI FLANGES
PN 10/16 standard	150 lbs
PN 25	300 lbs*
PN 40	600 lbs*

* on request

TEMPERATURE

-20°C / -40°F up to 65°C / 149°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature.

MATERIAL

- Swivel flange coupling

HOSE SHANK	FLANGE
Galvanized steel	Galvanized steel
Stainless steel AISI 316 / 1.4401	Stainless steel AISI 316 / 1.4401
Polypropylene	Galvanized steel
Stainless steel AISI 316 / 1.4401	Galvanized steel

LMC's steel and stainless steel hose shanks consist of a monoblock version.



- Swivel flange coupling

  Galvanized steel
  Stainless steel AISI 316 / 1.4401
  Polypropylene available on request

- Flange gasket

  - novatec® PREMIUM II, RF for flanges complying with EN / DIN / ANSI
  - GORE™ Universal Pipe Seal (UPG) Style 800, RF for flanges complying with EN / DIN / ANSI

  Raised-face flange gaskets are used in applications where the gasket is seated directly on the contact face of the flange, between the flange holes.

  - GORE™ Universal Pipe Seal (UPG) Style 800 is 100% expanded PTFE. Their multidirectional fibre structure and unique (envelope) profile enables GORE™ UPG Style 800 gaskets to be used in a wide range of chemical industry applications.

    Features:

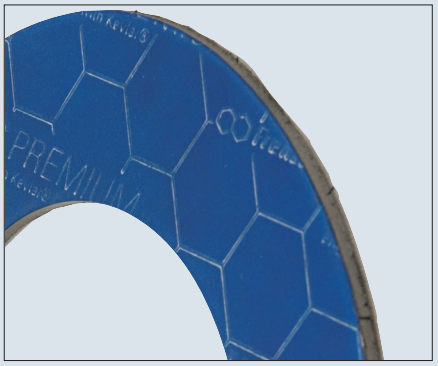
    - chemically inert and temperature resistant
    - seals at low bolt loadings
    - high dimensional stability
    - high resistance to creep and cold flow
    - seals all types of standard piping
    - resistant to all media in the 0-14 pH range, with the exception of alkalis and fluorine, particularly at high temperatures and pressures
    - temperature range: -210°C / -346°F up to 260 °C / 500°F
    - dimensions comply with EN-DIN and ANSI



  - novatec® PREMIUM II is a flange seal for general and chemical industry applications. The combination of graphite, paramide fibres (KEVLAR®) and low binder content, allows the flange gasket to be resistant to 80% of all common chemical industry media.

    Features:

    - good stress relief
    - resistant to high temperatures
    - good ductility
    - non-stick coating
    - excellent torque retention
    - temperature : 320°C / 608°F
    - resistant to a wide range of chemicals and steam applications
    - dimensions comply with EN-DIN and ANSI



novatec® PREMIUM II is a registered trademark of Frenzelit
KEVLAR® is a registered trademark of Dupont Dow Elastomers
GORE™ Universal Pipe Seal Style 800 is a registered trademark of W.L. Gore & Associates, Inc.

ASSEMBLY

RK and RKP safety clamps in compliance with EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps
HRRK swage ferrules
HRP swage ferrules
Worm drive, band or bolted clamps

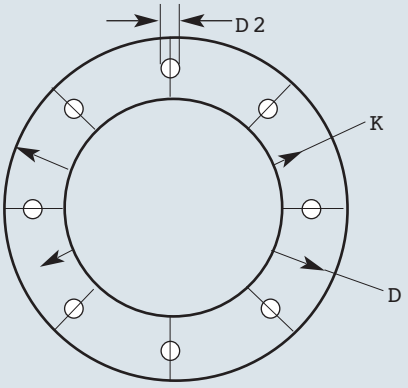
FLANGE DIMENSIONS

EN-DIN PN 6

"	ND	D	K	N	D2
1/2"	15	80	55	4	11
3/4"	20	90	65	4	11
1"	25	100	75	4	11
1.1/4"	32	120	90	4	14
1.1/2"	40	130	100	4	14
2"	50	140	110	4	14
2.1/2"	65	160	130	4	14
3"	80	190	150	4	18
4"	100	210	170	4	18
5"	125	240	200	8	18
6"	150	265	225	8	18
8"	200	320	280	8	18
10"	250	375	335	12	18
12"	300	440	395	12	22

EN-DIN PN 10

ND	D	K	N	D2
15	95	65	4	14
20	105	75	4	14
25	115	85	4	14
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4/8	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18
150	285	240	8	22
200	340	295	8	22
250	395	350	12	22
300	445	400	12	22



N= number of bolts

EN-DIN PN 16

"	ND	D	K	N	D2
1/2"	15	95	65	4	14
3/4"	20	105	75	4	14
1"	25	115	85	4	14
1.1/4"	32	140	100	4	18
1.1/2"	40	150	110	4	18
2"	50	165	125	4	18
2.1/2"	65	185	145	4	18
3"	80	200	160	8	18
4"	100	220	180	8	18
5"	125	250	210	8	18
6"	150	285	240	8	22
8"	200	340	295	12	22
10"	250	405	355	12	26
12"	300	460	410	12	26

EN-DIN PN 25

ND	D	K	N	D2
15	95	65	4	14
20	105	75	4	14
25	115	85	4	14
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	8	18
80	200	160	8	18
100	235	190	8	22
125	270	220	8	26
150	300	250	8	26
200	360	310	12	26
250	425	370	12	30
300	485	430	16	30

EN-DIN PN 40

ND	D	K	N	D2
15	95	65	4	14
20	105	75	4	14
25	115	85	4	14
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	8	18
80	200	160	8	18
100	235	190	8	22
125	270	220	8	26
150	300	250	8	26
200	375	320	12	30
250	450	385	12	33
300	515	450	16	33

ASTM 150 lbs

"	D	K	N	D2
1/2"	88.9	60.3	4	15.9
3/4"	98.4	69.8	4	15.9
1"	107.9	79.4	4	15.9
1.1/4"	117.5	88.9	4	15.9
1.1/2"	127.0	98.4	4	15.9
2"	152.4	120.6	4	19.0
2.1/2"	177.8	139.7	4	19.0
3"	190.5	152.4	4	19.0
4"	228.6	190.5	8	19.0
5"	254.0	215.9	8	22.2
6"	279.4	241.3	8	22.2
8"	342.9	298.4	8	22.2
10"	406.4	361.9	12	25.4
12"	482.6	431.8	12	25.4

ASTM 300 lbs

"	D	K	N	D2
1/2"	95.2	66.7	4	15.9
3/4"	117.5	82.5	4	19.1
1"	123.8	88.9	4	19.1
1.1/4"	133.3	98.4	4	19.1
1.1/2"	155.6	114.3	4	22.2
2"	165.1	127.0	8	19.1
2.1/2"	190.5	149.2	8	22.2
3"	209.5	168.3	8	22.2
4"	254.0	200.0	8	22.2
5"	279.4	234.9	8	22.2
6"	317.5	269.9	12	22.2
8"	381.0	330.2	12	25.4
10"	444.5	387.3	16	28.6
12"	520.7	450.8	16	31.7

ASTM 600 lbs

"	D	K	N	D2
1/2"	95.2	66.7	4	15.9
3/4"	117.5	82.5	4	19.1
1"	123.8	88.9	4	19.1
1.1/4"	133.3	98.4	4	19.1
1.1/2"	155.6	114.3	4	22.2
2"	165.1	127.0	8	19.1
2.1/2"	190.5	149.2	8	22.2
3"	209.5	168.3	8	22.2
4"	273.0	184.1	8	25.4
5"	330.2	266.7	8	28.6
6"	355.6	292.1	12	28.6
8"	419.1	349.2	12	31.7
10"	508.0	431.8	16	34.9
12"	558.8	488.9	20	34.9

FLANGE COUPLINGS

SWIVEL FLANGE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	Flange pressure class	For hose mm	Material hose shank	Flange material	Weight/pc kg	Reference
15	1/2"	EN-DIN PN 25/40	13	Steel	Steel	0.82	FLG013
20	3/4"	EN-DIN PN 25/40	19	Steel	Steel	1.12	FLG019
25	1"	EN-DIN PN 25/40	25	Steel	Steel	1.56	FLG025
32	1.1/4"	EN-DIN PN 25/40	32	Steel	Steel	2.10	FLG032
40	1.1/2"	EN-DIN PN 25/40	38	Steel	Steel	2.65	FLG038
40	1.1/2"	EN-DIN PN 25/40	40	Steel	Steel	2.65	FLG040*
50	2"	EN-DIN PN 10/16	50	Steel	Steel	3.22	FLG050
65	2.1/2"	EN-DIN PN 10/16	63	Steel	Steel	4.45	FLG063
65	2.1/2"	EN-DIN PN 10/16	65	Steel	Steel	4.45	FLG065*
80	3"	EN-DIN PN 10/16	75	Steel	Steel	5.54	FLG075
80	3"	EN-DIN PN 10/16	80	Steel	Steel	5.60	FLG080*
100	4"	EN-DIN PN 10/16	100	Steel	Steel	6.73	FLG100
125	5"	EN-DIN PN 10/16	125	Steel	Steel	9.61	FLG125
150	6"	EN-DIN PN 10/16	150	Steel	Steel	12.34	FLG150
200	8"	EN-DIN PN 10	200	Steel	Steel	18.55	FLG200PN10*
200	8"	EN-DIN PN 16	200	Steel	Steel	18.00	FLG200PN16



15	1/2"	EN-DIN PN 25/40	13	SS	SS	0.81	RRFLG013
20	3/4"	EN-DIN PN 25/40	19	SS	SS	1.11	RRFLG019
25	1"	EN-DIN PN 25/40	25	SS	SS	1.50	RRFLG025
32	1.1/4"	EN-DIN PN 25/40	32	SS	SS	2.19	RRFLG032
40	1.1/2"	EN-DIN PN 25/40	38	SS	SS	2.68	RRFLG038
40	1.1/2"	EN-DIN PN 25/40	40	SS	SS	2.68	RRFLG040*
50	2"	EN-DIN PN 10/16	50	SS	SS	3.58	RRFLG050
65	2.1/2"	EN-DIN PN 10/16	63	SS	SS	4.18	RRFLG063
65	2.1/2"	EN-DIN PN 10/16	65	SS	SS	4.45	RRFLG065*
80	3"	EN-DIN PN 10/16	75	SS	SS	5.43	RRFLG075
80	3"	EN-DIN PN 10/16	80	SS	SS	5.54	RRFLG080*
100	4"	EN-DIN PN 10/16	100	SS	SS	6.89	RRFLG100
125	5"	EN-DIN PN 10/16	125	SS	SS	9.13	RRFLG125
150	6"	EN-DIN PN 10/16	150	SS	SS	12.44	RRFLG150



15	1/2"	EN-DIN PN 25/40	13	PP	Steel	0.66	PSFLG013
20	3/4"	EN-DIN PN 25/40	19	PP	Steel	0.81	PSFLG019
25	1"	EN-DIN PN 25/40	25	PP	Steel	1.07	PSFLG025
32	1.1/4"	EN-DIN PN 25/40	32	PP	Steel	1.41	PSFLG032
40	1.1/2"	EN-DIN PN 25/40	38	PP	Steel	1.85	PSFLG038
40	1.1/2"	EN-DIN PN 25/40	40	PP	Steel	1.85	PSFLG040*
50	2"	EN-DIN PN 10/16	50	PP	Steel	2.00	PSFLG050
65	2.1/2"	EN-DIN PN 10/16	63	PP	Steel	2.69	PSFLG063
65	2.1/2"	EN-DIN PN 10/16	65	PP	Steel	2.8	PSFLG065*
80	3"	EN-DIN PN 10/16	75	PP	Steel	3.52	PSFLG075
80	3"	EN-DIN PN 10/16	80	PP	Steel	3.52	PSFLG080*
100	4"	EN-DIN PN 10/16	100	PP	Steel	4.00	PSFLG100



15	1/2"	EN-DIN PN 25/40	13	SS	Steel	0.81	RSFLG013
20	3/4"	EN-DIN PN 25/40	19	SS	Steel	1.11	RSFLG019
25	1"	EN-DIN PN 25/40	25	SS	Steel	1.49	RSFLG025
32	1.1/4"	EN-DIN PN 25/40	32	SS	Steel	2.16	RSFLG032
40	1.1/2"	EN-DIN PN 25/40	38	SS	Steel	2.70	RSFLG038
40	1.1/2"	EN-DIN PN 25/40	40	SS	Steel	2.70	RSFLG040*
50	2"	EN-DIN PN 10/16	50	SS	Steel	3.26	RSFLG050
65	2.1/2"	EN-DIN PN 10/16	63	SS	Steel	4.28	RSFLG063
65	2.1/2"	EN-DIN PN 10/16	65	SS	Steel	4.28	RSFLG065*
80	3"	EN-DIN PN 10/16	75	SS	Steel	5.52	RSFLG075
80	3"	EN-DIN PN 10/16	80	SS	Steel	5.52	RSFLG080*
100	4"	EN-DIN PN 10/16	100	SS	Steel	7.01	RSFLG100
150	6"	EN-DIN PN 10/16	150	SS	Steel	12.49	RSFLG150



*available on request

FLANGE COUPLINGS

SWIVEL FLANGE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	Flange pressure class	For hose mm	Material hose shank	Flange material	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN 40	13	Steel	Steel	0.92	FLGP4013
20	3/4"	EN 1092-1-PN 40	19	Steel	Steel	1.17	FLGP4019
25	1"	EN 1092-1-PN 40	25	Steel	Steel	1.94	FLGP4025
32	1.1/4"	EN 1092-1-PN 40	32	Steel	Steel	2.82	FLGP4032
40	1.1/2"	EN 1092-1-PN 40	38	Steel	Steel	3.28	FLGP4038
50	2"	EN 1092-1-PN 40	50	Steel	Steel	4.61	FLGP4050
65	2.1/2"	EN 1092-1-PN 40	63	Steel	Steel	6.16	FLGP4063
80	3"	EN 1092-1-PN 40	75	Steel	Steel	8.33	FLGP4075
100	4"	EN 1092-1-PN 40	100	Steel	Steel	9.88	FLGP4100



15	1/2"	EN 1092-1-PN 40	13	SS	SS	1.01	RRFLGP4013
20	3/4"	EN 1092-1-PN 40	19	SS	SS	1.61	RRFLGP4019
25	1"	EN 1092-1-PN 40	25	SS	SS	1.87	RRFLGP4025
32	1.1/4"	EN 1092-1-PN 40	32	SS	SS	2.78	RRFLGP4032
40	1.1/2"	EN 1092-1-PN 40	38	SS	SS	3.33	RRFLGP4038
50	2"	EN 1092-1-PN 40	50	SS	SS	4.65	RRFLGP4050
65	2.1/2"	EN 1092-1-PN 40	63	SS	SS	6.17	RRFLGP4063
80	3"	EN 1092-1-PN 40	75	SS	SS	8.31	RRFLGP4075
100	4"	EN 1092-1-PN 40	100	SS	SS	9.58	RRFLGP4100



15	1/2"	ASTM 150 lbs	13	Steel	Steel	0.59	FLGA1013
20	3/4"	ASTM 150 lbs	19	Steel	Steel	0.92	FLGA1019
25	1"	ASTM 150 lbs	25	Steel	Steel	1.34	FLGA1025
32	1.1/4"	ASTM 150 lbs	32	Steel	Steel	1.82	FLGA1032
40	1.1/2"	ASTM 150 lbs	38	Steel	Steel	2.25	FLGA1038
40	1.1/2"	ASTM 150 lbs	40	Steel	Steel	2.25	FLGA1040*
50	2"	ASTM 150 lbs	50	Steel	Steel	3.47	FLGA1050
65	2.1/2"	ASTM 150 lbs	63	Steel	Steel	5.68	FLGA1063
65	2.1/2"	ASTM 150 lbs	65	Steel	Steel	5.68	FLGA1065*
80	3"	ASTM 150 lbs	75	Steel	Steel	6.30	FLGA1075
80	3"	ASTM 150 lbs	80	Steel	Steel	6.30	FLGA1080*
100	4"	ASTM 150 lbs	100	Steel	Steel	8.83	FLGA1100
125	5"	ASTM 150 lbs	125	Steel	Steel	12.34	FLGA1125
150	6"	ASTM 150 lbs	150	Steel	Steel	15.34	FLGA1150



15	1/2"	ASTM 150 lbs	13	SS	SS	0.60	RRFLGA1013
20	3/4"	ASTM 150 lbs	19	SS	SS	1.07	RRFLGA1019
25	1"	ASTM 150 lbs	25	SS	SS	1.29	RRFLGA1025
32	1.1/4"	ASTM 150 lbs	32	SS	SS	1.95	RRFLGA1032
40	1.1/2"	ASTM 150 lbs	38	SS	SS	2.38	RRFLGA1038
40	1.1/2"	ASTM 150 lbs	40	SS	SS	2.38	RRFLGA1040*
50	2"	ASTM 150 lbs	50	SS	SS	3.65	RRFLGA1050
65	2.1/2"	ASTM 150 lbs	63	SS	SS	5.38	RRFLGA1063
65	2.1/2"	ASTM 150 lbs	65	SS	SS	5.38	RRFLGA1065*
80	3"	ASTM 150 lbs	75	SS	SS	6.23	RRFLGA1075
80	3"	ASTM 150 lbs	80	SS	SS	6.23	RRFLGA1080*
100	4"	ASTM 150 lbs	100	SS	SS	7.55	RRFLGA1100
125	5"	ASTM 150 lbs	125	SS	SS	11.74	RRFLGA1125
150	6"	ASTM 150 lbs	150	SS	SS	15.94	RRFLGA1150



Swivel flange: EN 1092-1 / type 04
ASTM / A 182/ ANSI B16.5, ASA 150 lbs

Assembly: RK and RKP safety clamps complying with EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps
SS = Stainless steel AISI 316 - 1.4401 / Steel = galvanized steel / PP = Polypropylene

* available on request

FLANGE COUPLINGS

FIXED FLANGE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	Flange pressure class	For hose mm	Material	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN 40	13	Steel	0.69	FVG013
20	3/4"	EN 1092-1-PN 40	19	Steel	1.00	FVG019
25	1"	EN 1092-1-PN 40	25	Steel	1.23	FVG025
32	1.1/4"	EN 1092-1-PN 40	32	Steel	1.80	FVG032
40	1.1/2"	EN 1092-1-PN 40	38	Steel	2.01	FVG038
40	1.1/2"	EN 1092-1-PN 16	40	Steel	2.01	FVG040*
50	2"	EN 1092-1-PN 16	50	Steel	2.80	FVG050
65	2.1/2	EN 1092-1-PN 16	63	Steel	3.47	FVG063
65	2.1/2"	EN 1092-1-PN 16	65	Steel	3.47	FVG065*
80	3"	EN 1092-1-PN 16	75	Steel	4.26	FVG075
80	3"	EN 1092-1-PN 16	80	Steel	4.26	FVG080*
100	4"	EN 1092-1-PN 16	100	Steel	5.67	FVG100
125	5"	EN 1092-1-PN 16	125	Steel	8.73	FVG125
150	6"	EN 1092-1-PN 16	150	Steel	11.64	FVG150
200	8"	EN 1092-1-PN 16	200	Steel	17.89	FVG200



15	1/2"	EN 1092-1-PN 40	13	SS	0.70	RFVG013
20	3/4"	EN 1092-1-PN 40	19	SS	1.01	RFVG019
25	1"	EN 1092-1-PN 40	25	SS	1.24	RFVG025
32	1.1/4"	EN 1092-1-PN 40	32	SS	1.83	RFVG032
40	1.1/2"	EN 1092-1-PN 40	38	SS	2.03	RFVG038
40	1.1/2"	EN 1092-1-PN 16	40	SS	2.03	RFVG040*
50	2"	EN 1092-1-PN 16	50	SS	2.79	RFVG050
65	2.1/2"	EN 1092-1-PN 16	63	SS	3.47	RFVG063
65	2.1/2"	EN 1092-1-PN 16	65	SS	3.47	RFVG065*
80	3"	EN 1092-1-PN 16	75	SS	4.33	RFVG075
80	3"	EN 1092-1-PN 16	80	SS	4.33	RFVG080*
100	4"	EN 1092-1-PN 16	100	SS	5.67	RFVG100
125	5"	EN 1092-1-PN 16	125	SS	8.63	RFVG125
150	6"	EN 1092-1-PN 16	150	SS	11.99	RFVG150



15	1/2"	EN 1092-1-PN 40	13	Steel	0.78	FVGP4013
20	3/4"	EN 1092-1-PN 40	19	Steel	1.11	FVGP4019
25	1"	EN 1092-1-PN 40	25	Steel	1.38	FVGP4025
32	1.1/4"	EN 1092-1-PN 40	32	Steel	1.99	FVGP4032
40	1.1/2"	EN 1092-1-PN 40	38	Steel	2.48	FVGP4038
40	1.1/2"	EN 1092-1-PN 40	40	Steel	2.48	FVGP4040*
50	2"	EN 1092-1-PN 40	50	Steel	3.09	FVGP4050
65	2.1/2"	EN 1092-1-PN 40	63	Steel	4.12	FVGP4063
65	2.1/2"	EN 1092-1-PN 40	65	Steel	4.12	FVGP4065*
80	3"	EN 1092-1-PN 40	75	Steel	5.31	FVGP4075
80	3"	EN 1092-1-PN 40	80	Steel	5.31	FVGP4080*
100	4"	EN 1092-1-PN 40	100	Steel	7.57	FVGP4100
125	5"	EN 1092-1-PN 40	125	Steel	11.50	FVGP4125
150	6"	EN 1092-1-PN 40	150	Steel	15.69	FVGP4150



15	1/2"	EN 1092-1-PN 40	13	SS	0.80	RFVGP4013
20	3/4"	EN 1092-1-PN 40	19	SS	1.12	RFVGP4019
25	1"	EN 1092-1-PN 40	25	SS	1.39	RFVGP4025
32	1.1/4"	EN 1092-1-PN 40	32	SS	2.02	RFVGP4032
40	1.1/2"	EN 1092-1-PN 40	38	SS	2.50	RFVGP4038
40	1.1/2"	EN 1092-1-PN 40	40	SS	2.50	RFVGP4040*
50	2"	EN 1092-1-PN 40	50	SS	3.08	RFVGP4050
65	2.1/2"	EN 1092-1-PN 40	63	SS	4.15	RFVGP4063
65	2.1/2"	EN 1092-1-PN 40	65	SS	4.15	RFVGP4065*
80	3"	EN 1092-1-PN 40	75	SS	5.38	RFVGP4075
80	3"	EN 1092-1-PN 40	80	SS	5.38	RFVGP4080*
100	4"	EN 1092-1-PN 40	100	SS	7.57	RFVGP4100
125	5"	EN 1092-1-PN 40	125	SS	11.40	RFVGP4125
150	6"	EN 1092-1-PN 40	150	SS	16.04	RFVGP4150



FLANGE COUPLINGS

FIXED FLANGE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	Flange pressure class	For hose mm	Material	Weight/pc kg	Reference
15	1/2"	ASTM 150 lbs	13	Steel	0.52	FVGA1013
20	3/4"	ASTM 150 lbs	19	Steel	0.76	FVGA1019
25	1"	ASTM 150 lbs	25	Steel	1.10	FVGA1025
32	1.1/4"	ASTM 150 lbs	32	Steel	1.44	FVGA1032
40	1.1/2"	ASTM 150 lbs	38	Steel	1.87	FVGA1038
40	1.1/2"	ASTM 150 lbs	40	Steel	1.87	FVGA1040*
50	2"	ASTM 150 lbs	50	Steel	2.85	FVGA1050
65	2.1/2"	ASTM 150 lbs	63	Steel	4.52	FVGA1063
65	2.1/2"	ASTM 150 lbs	65	Steel	4.52	FVGA1065*
80	3"	ASTM 150 lbs	75	Steel	5.48	FVGA1075
80	3"	ASTM 150 lbs	80	Steel	5.48	FVGA1080*
100	4"	ASTM 150 lbs	100	Steel	7.89	FVGA1100
125	5"	ASTM 150 lbs	125	Steel	10.99	FVGA1125
150	6"	ASTM 150 lbs	150	Steel	14.49	FVGA1150



15	1/2"	ASTM 150 lbs	13	SS	0.75	RFVGA1013
20	3/4"	ASTM 150 lbs	19	SS	0.86	RFVGA1019
25	1"	ASTM 150 lbs	25	SS	1.20	RFVGA1025
32	1.1/4"	ASTM 150 lbs	32	SS	1.64	RFVGA1032
40	1.1/2"	ASTM 150 lbs	38	SS	1.97	RFVGA1038
40	1.1/2"	ASTM 150 lbs	40	SS	1.97	RFVGA1040*
50	2"	ASTM 150 lbs	50	SS	2.96	RFVGA1050
65	2.1/2"	ASTM 150 lbs	63	SS	4.81	RFVGA1063
65	2.1/2"	ASTM 150 lbs	65	SS	4.81	RFVGA1065*
80	3"	ASTM 150 lbs	75	SS	5.83	RFVGA1075
80	3"	ASTM 150 lbs	80	SS	5.83	RFVGA1080*
100	4"	ASTM 150 lbs	100	SS	8.55	RFVGA1100
125	5"	ASTM 150 lbs	125	SS	11.53	RFVGA1125
150	6"	ASTM 150 lbs	150	SS	15.24	RFVGA1150



Fixed flange: EN 1092-1 / type 11

ASTM / A 182/ ANSI B16.5, ASA 150 lbs

Assembly: RK and RKP safety clamps complying with EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps
SS = Stainless steel AISI 316 - 1.4401
Steel = galvanized steel

FLANGE COUPLINGS

SWIVEL FLANGE COUPLING WITH SERRATED HOSE SHANK AND COLLAR

ND	Inch	Flange pressure class	For hose mm	Material hose shank	Flange material	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN40	13	Steel	Steel	0.82	FLP013
20	3/4"	EN 1092-1-PN40	19	Steel	Steel	1.10	FLP019
25	1"	EN 1092-1-PN40	25	Steel	Steel	1.53	FLP025
32	1.1/4"	EN 1092-1-PN40	32	Steel	Steel	2.06	FLP032
40	1.1/2"	EN 1092-1-PN40	38	Steel	Steel	2.68	FLP038
40	1.1/2"	EN 1092-1-PN40	40	Steel	Steel	2.68	FLP040*
50	2"	EN 1092-1-PN16	50	Steel	Steel	3.22	FLP050
65	2.1/2"	EN 1092-1-PN16	63	Steel	Steel	4.18	FLP063
65	2.1/2"	EN 1092-1-PN16	65	Steel	Steel	4.18	FLP065*
80	3"	EN 1092-1-PN16	75	Steel	Steel	5.29	FLP075
80	3"	EN 1092-1-PN16	80	Steel	Steel	5.29	FLP080*
100	4"	EN 1092-1-PN16	100	Steel	Steel	7.01	FLP100
125	5"	EN 1092-1-PN16	125	Steel	Steel	14.19	FLP125
150	6"	EN 1092-1-PN16	150	Steel	Steel	17.72	FLP150
200	8"	EN 1092-1-PN16	200	Steel	Steel	20.0	FLP200PN10*
200	8"	EN 1092-1-PN16	200	Steel	Steel	22.6	FLP200PN16



15	1/2"	EN 1092-1-PN40	13	SS	SS	0.79	RRFLP013
20	3/4"	EN 1092-1-PN40	19	SS	SS	1.10	RRFLP019
25	1"	EN 1092-1-PN40	25	SS	SS	1.49	RRFLP025
32	1.1/4"	EN 1092-1-PN40	32	SS	SS	2.12	RRFLP032
40	1.1/2"	EN 1092-1-PN40	38	SS	SS	2.50	RRFLP038
40	1.1/2"	EN 1092-1-PN40	40	SS	SS	2.50	RRFLP040*
50	2"	EN 1092-1-PN16	50	SS	SS	3.43	RRFLP050
65	2.1/2"	EN 1092-1-PN16	63	SS	SS	3.85	RRFLP063
65	2.1/2"	EN 1092-1-PN16	65	SS	SS	3.85	RRFLP065*
80	3"	EN 1092-1-PN16	75	SS	SS	5.25	RRFLP075
80	3"	EN 1092-1-PN16	80	SS	SS	5.25	RRFLP080*
100	4"	EN 1092-1-PN16	100	SS	SS	6.02	RRFLP100
125	5"	EN 1092-1-PN16	125	SS	SS	9.13	RRFLP125
150	6"	EN 1092-1-PN16	150	SS	SS	11.83	RRFLP150



15	1/2"	EN 1092-1-PN40	13	SS	Steel	0.82	RSFLP013
20	3/4"	EN 1092-1-PN40	19	SS	Steel	1.12	RSFLP019
25	1"	EN 1092-1-PN40	25	SS	Steel	1.53	RSFLP025
32	1.1/4"	EN 1092-1-PN40	32	SS	Steel	1.99	RSFLP032
40	1.1/2"	EN 1092-1-PN40	38	SS	Steel	2.52	RSFLP038
40	1.1/2"	EN 1092-1-PN40	40	SS	Steel	2.52	RSFLP040*
50	2"	EN 1092-1-PN16	50	SS	Steel	3.11	RSFLP050
65	2.1/2"	EN 1092-1-PN16	63	SS	Steel	3.95	RSFLP063
65	2.1/2"	EN 1092-1-PN16	65	SS	Steel	3.95	RSFLP065*
80	3"	EN 1092-1-PN16	75	SS	Steel	5.34	RSFLP075
80	3"	EN 1092-1-PN16	80	SS	Steel	5.34	RSFLP080*
100	4"	EN 1092-1-PN16	100	SS	Steel	6.14	RSFLP100
125	5"	EN 1092-1-PN16	125	SS	Steel	9.01	RSFLP125
150	6"	EN 1092-1-PN16	150	SS	Steel	11.68	RSFLP150



FLANGE COUPLINGS

SWIVEL FLANGE COUPLING WITH SERRATED HOSE SHANK AND COLLAR

ND	Inch	Flange pressure class	For hose mm	Material hose shank	Flange material	Weight/pc kg	Reference
15	1/2"	ASTM 150 lbs	13	Steel	Steel	0.57	FLPA1013
20	3/4"	ASTM 150 lbs	19	Steel	Steel	0.90	FLPA1019
25	1"	ASTM 150 lbs	25	Steel	Steel	1.31	FLPA1025
32	1.1/4"	ASTM 150 lbs	32	Steel	Steel	1.78	FLPA1032
40	1.1/2"	ASTM 150 lbs	38	Steel	Steel	2.28	FLPA1038
40	1.1/2"	ASTM 150 lbs	40	Steel	Steel	2.28	FLPA1040*
50	2"	ASTM 150 lbs	50	Steel	Steel	3.47	FLPA1050
65	2.1/2"	ASTM 150 lbs	63	Steel	Steel	5.34	FLPA1063
65	2.1/2"	ASTM 150 lbs	65	Steel	Steel	5.34	FLPA1065*
80	3"	ASTM 150 lbs	75	Steel	Steel	6.05	FLPA1075
80	3"	ASTM 150 lbs	80	Steel	Steel	6.05	FLPA1080*
100	4"	ASTM 150 lbs	100	Steel	Steel	9.11	FLPA1100
125	5"	ASTM 150 lbs	125	Steel	Steel	16.49	FLPA1125
150	6"	ASTM 150 lbs	150	Steel	Steel	20.72	FLPA1150



15	1/2"	ASTM 150 lbs	13	SS	SS	0.79	RRFLPA1013
20	3/4"	ASTM 150 lbs	19	SS	SS	1.10	RRFLPA1019
25	1"	ASTM 150 lbs	25	SS	SS	1.50	RRFLPA1025
32	1.1/4"	ASTM 150 lbs	32	SS	SS	2.12	RRFLPA1032
40	1.1/2"	ASTM 150 lbs	38	SS	SS	2.50	RRFLPA1038
40	1.1/2"	ASTM 150 lbs	40	SS	SS	2.50	RRFLPA1040*
50	2"	ASTM 150 lbs	50	SS	SS	3.43	RRFLPA1050
65	2.1/2"	ASTM 150 lbs	63	SS	SS	3.85	RRFLPA1063
65	2.1/2"	ASTM 150 lbs	65	SS	SS	3.85	RRFLPA1065*
80	3"	ASTM 150 lbs	75	SS	SS	5.25	RRFLPA1075
80	3"	ASTM 150 lbs	80	SS	SS	5.25	RRFLPA1080*
100	4"	ASTM 150 lbs	100	SS	SS	6.02	RRFLPA1100
125	5"	ASTM 150 lbs	125	SS	SS	11.74	RRFLPA1125
150	6"	ASTM 150 lbs	150	SS	SS	15.33	RRFLPA1150



Swivel flange: EN 1092-1 / type 04
ASTM / A 182/ ANSI B16.5, ASA 150 lbs
Assembly: HRRK swage ferrules, worm drive and band clamps
SS = Stainless steel AISI 316 - 1.4401
Steel = galvanized steel
Polypropylene flange available on request
*Available on request

FLANGE COUPLINGS

FIXED FLANGE COUPLING WITH SERRATED HOSE SHANK AND COLLAR

ND	Inch	Flange pressure class	For hose mm	Material	Weight/pc kg	Reference
15	1/2"	EN 1092-1-PN40	13	Steel	0.70	FVP013
20	3/4"	EN 1092-1-PN40	19	Steel	1.02	FVP019
25	1"	EN 1092-1-PN40	25	Steel	1.23	FVP025
32	1.1/4"	EN 1092-1-PN40	32	Steel	1.82	FVP032
40	1.1/2"	EN 1092-1-PN40	38	Steel	2.01	FVP038
40	1.1/2"	EN 1092-1-PN40	40	Steel	2.01	FVP040*
50	2"	EN 1092-1-PN16	50	Steel	2.79	FVP050
65	2.1/2"	EN 1092-1-PN16	63	Steel	3.70	FVP063
65	2.1/2"	EN 1092-1-PN16	65	Steel	3.70	FVP065*
80	3"	EN 1092-1-PN16	75	Steel	4.26	FVP075
80	3"	EN 1092-1-PN16	80	Steel	4.26	FVP080*
100	4"	EN 1092-1-PN16	100	Steel	5.68	FVP100
125	5"	EN 1092-1-PN16	125	Steel	8.51	FVP125
150	6"	EN 1092-1-PN16	150	Steel	11.29	FVP150
200	8"	EN 1092-1-PN16	200	Steel	17.44	FVP200PN10*
200	8"	EN 1092-1-PN16	200	Steel	17.44	FVP200PN16



15	1/2"	EN 1092-1-PN40	13	SS	0.70	RFVP013
20	3/4"	EN 1092-1-PN40	19	SS	1.01	RFVP019
25	1"	EN 1092-1-PN40	25	SS	1.24	RFVP025
32	1.1/4"	EN 1092-1-PN40	32	SS	1.83	RFVP032
40	1.1/2"	EN 1092-1-PN40	38	SS	2.03	RFVP038
40	1.1/2"	EN 1092-1-PN40	40	SS	2.03	RFVP040*
50	2"	EN 1092-1-PN16	50	SS	2.79	RFVP050
65	2.1/2"	EN 1092-1-PN16	63	SS	3.47	RFVP063
65	2.1/2"	EN 1092-1-PN16	65	SS	3.47	RFVP065*
80	3"	EN 1092-1-PN16	75	SS	4.33	RFVP075
80	3"	EN 1092-1-PN16	80	SS	4.33	RFVP080*
100	4"	EN 1092-1-PN16	100	SS	5.67	RFVP100
125	5"	EN 1092-1-PN16	125	SS	8.63	RFVP125
150	6"	EN 1092-1-PN16	150	SS	11.99	RFVP150



15	1/2"	ASTM 150 lbs	13	Steel	0.53	FVPA1013
20	3/4"	ASTM 150 lbs	19	Steel	0.78	FVPA1019
25	1"	ASTM 150 lbs	25	Steel	1.10	FVPA1025
32	1.1/4"	ASTM 150 lbs	32	Steel	1.46	FVPA1032
40	1.1/2"	ASTM 150 lbs	38	Steel	1.87	FVPA1038
40	1.1/2"	ASTM 150 lbs	40	Steel	1.87	FVPA1040*
50	2"	ASTM 150 lbs	50	Steel	2.84	FVPA1050
65	2.1/2"	ASTM 150 lbs	63	Steel	4.75	FVPA1063
65	2.1/2"	ASTM 150 lbs	65	Steel	4.75	FVPA1065*
80	3"	ASTM 150 lbs	75	Steel	5.48	FVPA1075
80	3"	ASTM 150 lbs	80	Steel	5.48	FVPA1080*
100	4"	ASTM 150 lbs	100	Steel	7.90	FVPA1100
125	5"	ASTM 150 lbs	125	Steel	10.77	FVPA1125
150	6"	ASTM 150 lbs	150	Steel	10.60	FVPA1150



Fixed flange: EN 1092-1 / type 11
ASTM / A 182/ ANSI B16.5, ASA 150 lbs
Assembly: HRRK swage ferrules, worm drive and band clamps
SS = Stainless steel AISI 316 - EN 1.4401 / Steel = galvanized steel

FLANGE COUPLINGS

FIXED FLANGE COUPLING WITH SERRATED HOSE SHANK AND COLLAR

ND	Inch	Flange pressure class	For hose mm	Material	Weight/pc kg	Reference
15	1/2"	ASTM 150 lbs	13	SS	0.75	RFVPA1013
20	3/4"	ASTM 150 lbs	19	SS	0.86	RFVPA1019
25	1"	ASTM 150 lbs	25	SS	1.20	RFVPA1025
32	1.1/4"	ASTM 150 lbs	32	SS	1.64	RFVPA1032
40	1.1/2"	ASTM 150 lbs	38	SS	1.97	RFVPA1038
40	1.1/2"	ASTM 150 lbs	40	SS	1.97	RFVPA1040*
50	2"	ASTM 150 lbs	50	SS	2.96	RFVPA1050
65	2.1/2"	ASTM 150 lbs	63	SS	4.81	RFVPA1063
65	2.1/2"	ASTM 150 lbs	65	SS	4.81	RFVPA1065*
80	3"	ASTM 150 lbs	75	SS	5.83	RFVPA1075
80	3"	ASTM 150 lbs	80	SS	5.83	RFVPA1080*
100	4"	ASTM 150 lbs	100	SS	8.55	RFVPA1100
125	5"	ASTM 150 lbs	125	SS	11.53	RFVPA1125
150	6"	ASTM 150 lbs	150	SS	15.24	RFVPA1150



Fixed flange: EN 1092-1 / type 11
ASTM / A 182/ ANSI B16.5, ASA 150 lbs
Assembly: HRRK swage ferrules, worm drive and band clamps
SS = Stainless steel AISI 316 - 1.4401 / Steel = galvanized steel
* available on request



FLANGE COUPLINGS

SMOOTH WELDING HOSE SHANK EN 14420-2 / DIN 2817

ND	Inch	Material	For hose mm	OD Ø welding end mm	Weight/pc kg	Reference
15	1/2"	Steel	13	21.3	0.04	FTU013
20	3/4"	Steel	19	26.9	0.05	FTU019
25	1"	Steel	25	33.7	0.09	FTU025
32	1.1/4"	Steel	32	42.4	0.11	FTU032
40	1.1/2"	Steel	38	48.3	0.15	FTU038
40	1.1/2"	Steel	40	48.3	0.15	FTU040*
50	2"	Steel	50	60.3	0.27	FTU050
65	2.1/2"	Steel	63	76.1	0.41	FTU063
65	2.1/2"	Steel	65	76.1	0.41	FTU065*
80	3"	Steel	75	88.9	0.56	FTU075
80	3"	Steel	80	88.9	0.59	FTU080*
100	4"	Steel	100	114.3	1.05	FTU100
125	5"	Steel	125	139.7	2.43	FTU125
150	6"	Steel	150	168.3	3.89	FTU150
200	8"	Steel	200	219.1	6.89	FTU200



15	1/2"	SS	13	21.3	0.05	RFTU013
20	3/4"	SS	19	26.9	0.06	RFTU019
25	1"	SS	25	33.7	0.10	RFTU025
32	1.1/4"	SS	32	42.4	0.14	RFTU032
40	1.1/2"	SS	38	48.3	0.17	RFTU038
40	1.1/2"	SS	40	48.3	0.17	RFTU040*
50	2"	SS	50	60.3	0.26	RFTU050
65	2.1/2"	SS	63	76.1	0.41	RFTU063
65	2.1/2"	SS	65	76.1	0.41	RFTU065*
80	3"	SS	75	88.9	0.63	RFTU075
80	3"	SS	80	88.9	0.66	RFTU080*
100	4"	SS	100	114.3	1.05	RFTU100
125	5"	SS	125	139.7	2.33	RFTU125
150	6"	SS	150	168.3	4.24	RFTU150
200	8"	SS	200	219.1	7.11	RFTU200



SS = Stainless steel AISI 316 - EN 1.4401 / Steel = non-galvanized steel
Assembly: RK and RKP safety clamps complying with EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps

FLANGE COUPLINGS

SERRATED WELDING HOSE SHANK

ND	Inch	Material	For hose mm	OD Ø welding end mm	Weight/pc kg	Reference
15	1/2"	Steel	13	21.3	0.05	FTP013
20	3/4"	Steel	19	26.9	0.07	FTP019
25	1"	Steel	25	33.7	0.09	FTP025
32	1.1/4"	Steel	32	42.4	0.13	FTP032
40	1.1/2"	Steel	38	48.3	0.15	FTP038
40	1.1/2"	Steel	40	48.3	0.15	FTP040*
50	2"	Steel	50	60.3	0.26	FTP050
65	2.1/2"	Steel	63	76.1	0.64	FTP063
65	2.1/2"	Steel	65	76.1	0.64	FTP065*
80	3"	Steel	75	88.9	0.56	FTP075
80	3"	Steel	80	88.9	0.61	FTP080*
100	4"	Steel	100	114.3	1.06	FTP100
125	5"	Steel	125	139.7	2.21	FTP125
150	6"	Steel	150	168.3	3.54	FTP150
200	8"	Steel	200	219.1	6.44	FTP200



15	1/2"	SS	13	21.3	0.05	RFTP013
20	3/4"	SS	19	26.9	0.07	RFTP019
25	1"	SS	25	33.7	0.09	RFTP025
32	1.1/4"	SS	32	42.4	0.13	RFTP032
40	1.1/2"	SS	38	48.3	0.17	RFTP038
40	1.1/2"	SS	40	48.3	0.17	RFTP040*
50	2"	SS	50	60.3	0.27	RFTP050
65	2.1/2"	SS	63	76.1	0.46	RFTP063
65	2.1/2"	SS	65	76.1	0.46	RFTP065*
80	3"	SS	75	88.9	0.55	RFTP075
80	3"	SS	80	88.9	0.59	RFTP080*
100	4"	SS	100	114.3	1.22	RFTP100
125	5"	SS	125	139.7	2.45	RFTP125
150	6"	SS	150	168.3	3.44	RFTP150
200	8"	SS	200	219.1	6.20	RFTP200



SS = Stainless steel AISI 316 - 1.4401 / Steel = non-galvanized steel
Assembly: HRRK swage ferrules, worm drive and band clamps

RAISED FACE GASKET FOR EN / DIN FLANGE - GORE™ UPG STYLE 800

ND	EN-DIN	OD Ø mm	ID Ø mm	Height mm	Colour	Reference
15	PN 10/40	51.0	22.0	3.0	White	FXG013DINRF
20	PN 10/40	61.0	27.0	3.0	White	FXG019DINRF
25	PN 10/40	71.0	34.0	3.0	White	FXG025DINRF
32	PN 10/40	82.0	43.0	3.0	White	FXG032DINRF
40	PN 10/40	92.0	49.0	3.0	White	FXG038DINRF
50	PN 10/40	107.0	61.0	3.0	White	FXG050DINRF
65	PN 10/40	127.0	77.0	3.0	White	FXG063DINRF
80	PN 10/40	142.0	89.0	3.0	White	FXG075DINRF
100	PN 10/16	162.0	115.0	3.0	White	FXG100DINRF
125	PN 10/16	192.0	141.0	3.0	White	FXG125DINRF
150	PN 10/16	218.0	169.0	3.0	White	FXG150DINRF
200	PN 10/16	273.0	220.0	3.0	White	FXG200DINRF

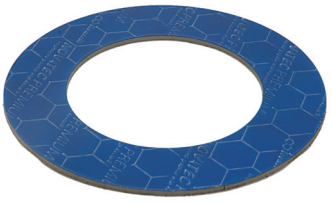


Seal colour is subject to change without prior notice

GORE™ Universal Pipe Seal Style 800 is a registered trademark of W.L. Gore & Associates, Inc.

RAISED FACE GASKET FOR EN / DIN FLANGE - novatec® PREMIUM II

ND	EN-DIN	OD Ø mm	ID Ø mm	Height mm	Colour	Reference
15	PN 10/40	51.0	22.0	2.0	Blue	FXN013DINRF
20	PN 10/40	61.0	27.0	2.0	Blue	FXN019DINRF
25	PN 10/40	71.0	34.0	2.0	Blue	FXN025DINRF
32	PN 10/40	82.0	43.0	2.0	Blue	FXN032DINRF
40	PN 10/40	92.0	49.0	2.0	Blue	FXN038DINRF
50	PN 10/40	107.0	61.0	2.0	Blue	FXN050DINRF
65	PN 10/40	127.0	77.0	2.0	Blue	FXN063DINRF
80	PN 10/40	142.0	89.0	2.0	Blue	FXN075DINRF
100	PN 10/16	162.0	115.0	2.0	Blue	FXN100DINRF
125	PN 10/16	192.0	141.0	2.0	Blue	FXN125DINRF
150	PN 10/16	218.0	169.0	2.0	Blue	FXN150DINRF
200	PN 10/16	273.0	220.0	2.0	Blue	FXN200DINRF



novatec® PREMIUM II is a registered trademark of Frenzelit
KEVLAR® is a registered trademark of Dupont Dow Elastomers
Seal colour is subject to change without prior notice

FLANGE COUPLINGS

RAISED FACE GASKET FOR ANSI FLANGE - GORE™ UPG STYLE 800

ND	ANSI	OD Ø mm	ID Ø mm	Height mm	Colour	Reference
1/2"	ASA 150lbs	47.5	22.0	3.0	White	FXG013A1RF
3/4"	ASA 150lbs	57.0	27.0	3.0	White	FXG019A1RF
1"	ASA 150lbs	66.5	34.0	3.0	White	FXG025A1RF
1.1/4"	ASA 150lbs	76.0	43.0	3.0	White	FXG032A1RF
1.1/2"	ASA 150lbs	85.5	49.0	3.0	White	FXG038A1RF
2"	ASA 150lbs	104.5	61.0	3.0	White	FXG050A1RF
2.1/2"	ASA 150lbs	124.0	73.0	3.0	White	FXG063A1RF
3"	ASA 150lbs	136.5	89.0	3.0	White	FXG075A1RF
4"	ASA 150lbs	174.5	115.0	3.0	White	FXG100A1RF
5"	ASA 150lbs	196.5	141.0	3.0	White	FXG125A1RF
6"	ASA 150lbs	222.0	169.0	3.0	White	FXG150A1RF
8"	ASA 150lbs	279.0	220.0	3.0	White	FXG200A1RF

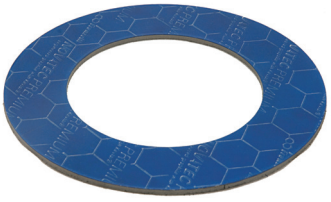


Seal colour is subject to change without prior notice

GORE™ Universal Pipe Seal Style 800 is a registered trademark of W.L. Gore & Associates, Inc.

RAISED FACE GASKET FOR ANSI FLANGE - novatec® PREMIUM II

ND	ANSI	OD Ø mm	ID Ø mm	Height mm	Colour	Reference
1/2"	ASA 150lbs	47.5	22.0	2.0	Blue	FXN013A1RF
3/4"	ASA 150lbs	57.0	27.0	2.0	Blue	FXN019A1RF
1"	ASA 150lbs	66.5	34.0	2.0	Blue	FXN025A1RF
1.1/4"	ASA 150lbs	76.0	43.0	2.0	Blue	FXN032A1RF
1.1/2"	ASA 150lbs	85.5	49.0	2.0	Blue	FXN038A1RF
2"	ASA 150lbs	104.5	61.0	2.0	Blue	FXN050A1RF
2.1/2"	ASA 150lbs	124.0	73.0	2.0	Blue	FXN063A1RF
3"	ASA 150lbs	136.5	89.0	2.0	Blue	FXN075A1RF
4"	ASA 150lbs	174.5	115.0	2.0	Blue	FXN100A1RF
5"	ASA 150lbs	196.5	141.0	2.0	Blue	FXN125A1RF
6"	ASA 150lbs	222.0	169.0	2.0	Blue	FXN150A1RF
8"	ASA 150lbs	279.0	220.0	2.0	Blue	FXN200A1RF



novatec® PREMIUM II is a registered trademark of Frenzelit
KEVLAR® is a registered trademark of Dupont Dow Elastomers
Seal colour is subject to change without prior notice

STANDARD

Large bore flange couplings are specially designed for large bore hoses starting from DN 200 up to DN 400. Due to the lightweight, large bore flanges are very user friendly during hose assembly.

OPERATION

A flange coupling is fitted to a rubber or pvc hose using a hose shank coupling, which is inserted into the hose. The hose shank may be smooth with collar or serrated.

1. The design of the smooth hose shank of flange couplings is based on the principle of EN 14420-2. To limit the weight of large bore flanges the wall thickness of the flange coupling is reduced to the minimum of 2-3mm. Up to DN 200 large bore flange couplings with smooth hose shank are assembled with RK safety clamps complying with EN 14220-3 / DIN 2817.
2. Serrated hose shanks with collars are recommended for assembly using band or bolted clamps.

The hose shank may have a fixed or swivel flange. A flange-to-hose connection should preferably be fitted with at least one swivel flange. During assembly, the connection with the fixed flange is fitted to the piping system first, followed by the swivel flange. The swivel flange prevents twisting of the hose during assembly.

APPLICATION

To connect rubber, pvc and thermoplastic hoses.

WORKING PRESSURE

Flange ring: connection working pressure classes PN 10 / PN 16
Hose shank - PN 10

TEMPERATURE

-20°C / -40°F up to 65°C / 149°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature.

MATERIAL

Stainless steel AISI 304
White plated steel

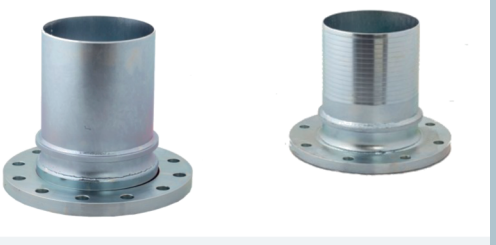
ASSEMBLY

Smooth hose shank: RK safety clamps according to EN 14420-3
Serrated hose shank: band or bolted clamps



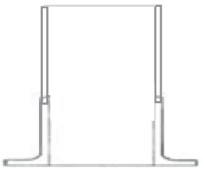
LARGE BORE FLANGE COUPLINGS

1. Flange coupling	
Standard	-
Description	Swivel or fixed flange coupling
Dimension[1]	ND 200 / ND 250 / ND 300 / ND 350 / ND 400
Working pressure	Maximum 10 bar
Assembly	Safety clamps + band clamps
Material	Steel or stainless steel AISI 304
Production process	Welding



Swivel vs Fixed

2. Hose shank	
Standard	-
Description	Multi serrated hose shank / smooth hose shank
For hose[1]	200-204 / 250-254 / 300-304 / 350-354 / 400-406 mm
Working pressure	Maximum 10 bar
Assembly	Safety clamps or band clamps
Material	Plated steel or stainless steel AISI 304
Production process	Welded tube



Smooth shank vs Serrated hose shank

3. Stub end	
Standard	-
Description	Lapped pipe end
Dimension[1]	ND 200 / ND 250 / ND 300 / ND 350 / ND 400
Working pressure	Maximum 10 bar
Assembly	Flat welding end
Material[2]	Plated steel or stainless steel AISI 304
Production process	Forged steel plate



Lapped pipe end

4. Flange ring	
Standard	DIN 2642 - or pressed / DIN 2576
Description	Swivel flange / fixed flange
Dimension	ND 200 / ND 250 / ND 300 / ND 350 / ND 400
Flange connection	PN 10 / PN 16
Material	Plated steel / stainless steel AISI 304
Production process	Forging

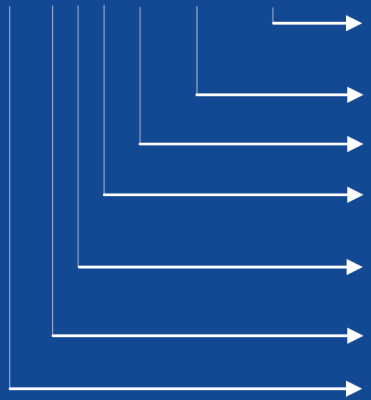
[1]Due to limiations in safety clamps the smooth hose flange couplings are only offered in DN 200.



Plain vs Pressed

ORDERING REFERENCES

Example: RR4_ F_L_S_200_PN10_ECO1



Flange type: plain flange = ECO 1
pressed flange = ECO 2

Pressure class flange ring

200 = size flange and hose shank

Hose shank type: S = serrated hose shank
G = smooth hose shank

Swivel vs fixed flange: L = swivel flange
F = fixed flange

Type of coupling: F = Flange coupling

Material: RR4 = stainless steel AISI 304 (standard)
RR6 = stainless steel AISI 316 (on request)
- = white plated steel

LARGE BORE FLANGE COUPLINGS

Swivel flange coupling with serrated hose shank

ND / INCH	Flange type	Material	For hose	Reference
200	Plain DIN PN10	Steel	200 mm	FLS200PN10ECO1
200	Plain DIN PN16	Steel	200 mm	FLS200PN16ECO1
250	Plain DIN PN10	Steel	250 mm	FLS250PN10ECO1
250	Plain DIN PN16	Steel	250 mm	FLS250PN16ECO1
300	Plain DIN PN10	Steel	300 mm	FLS300PN10ECO1
300	Plain DIN PN16	Steel	300 mm	FLS300PN16ECO1
350	Plain DIN PN10	Steel	350 mm	FLS350PN10ECO1
350	Plain DIN PN16	Steel	350 mm	FLS350PN16ECO1
400	Plain DIN PN10	Steel	400 mm	FLS400PN10ECO1
400	Plain DIN PN16	Steel	400 mm	FLS400PN16ECO1
200	Plain DIN PN10	SS 304	200 mm	RR4FLS200PN10ECO1
200	Plain DIN PN16	SS 304	200 mm	RR4FLS200PN16ECO1
8"	Plain DIN PN10	SS 304	204 mm	RR4FLS204PN10ECO1
8"	Plain DIN PN16	SS 304	204 mm	RR4FLS204PN16ECO1
10"	Plain DIN PN10	SS 304	254 mm	RR4FLS254PN10ECO1
10"	Plain DIN PN16	SS 304	254 mm	RR4FLS254PN16ECO1
12"	Plain DIN PN10	SS 304	304 mm	RR4FLS304PN10ECO1
12"	Plain DIN PN16	SS 304	304 mm	RR4FLS304PN16ECO1
14"	Plain DIN PN10	SS 304	354 mm	RR4FLS354PN10ECO1
16"	Plain DIN PN10	SS 304	406 mm	RR4FLS406PN10ECO1
200	Pressed DIN PN10	SS 304	200 mm	RR4FLS200PN10ECO2
200	Pressed DIN PN16	SS 304	200 mm	RR4FLS200PN16ECO2
8"	Pressed DIN PN10	SS 304	204 mm	RR4FLS204PN10ECO2
8"	Pressed DIN PN16	SS 304	204 mm	RR4FLS204PN16ECO2
10"	Pressed DIN PN10	SS 304	254 mm	RR4FLS254PN10ECO2
10"	Pressed DIN PN16	SS 304	254 mm	RR4FLS254PN16ECO2
12"	Pressed DIN PN10	SS 304	304 mm	RR4FLS304PN10ECO2
12"	Pressed DIN PN16	SS 304	304 mm	RR4FLS304PN16ECO2
14"	Pressed DIN PN10	SS 304	354 mm	RR4FLS354PN10ECO2
16"	Pressed DIN PN10	SS 304	406 mm	RR4FLS406PN10ECO2







Swivel flange: DIN PN 10 / PN 16
Assembly: band clamps
Stainless steel AISI 304 - 1.4301. Stainless steel AISI 316 - 1.4401 on request available
Steel: white plated
Wall thickness hose shank: 2-3 mm

LARGE BORE FLANGE COUPLINGS

Fixed flange coupling with serrated hose shank

ND / INCH	Flange type	Material	For hose	Reference
200	Plain DIN PN10	Steel	200 mm	FVS200PN10ECO1
200	Plain DIN PN16	Steel	200 mm	FVS200PN16ECO1
250	Plain DIN PN10	Steel	250 mm	FVS250PN10ECO1
250	Plain DIN PN16	Steel	250 mm	FVS250PN16ECO1
300	Plain DIN PN10	Steel	300 mm	FVS300PN10ECO1
300	Plain DIN PN16	Steel	300 mm	FVS300PN16ECO1
350	Plain DIN PN10	Steel	350 mm	FVS350PN10ECO1
350	Plain DIN PN16	Steel	350 mm	FVS350PN16ECO1
400	Plain DIN PN10	Steel	400 mm	FVS400PN10ECO1
400	Plain DIN PN16	Steel	400 mm	FVS400PN16ECO1



8"	Plain DIN PN10	SS 304	204 mm	R4FVS204PN10ECO1
8"	Plain DIN PN16	SS 304	204 mm	R4FVS204PN16ECO1
10"	Plain DIN PN10	SS 304	254 mm	R4FVS254PN10ECO1
10"	Plain DIN PN16	SS 304	254 mm	R4FVS254PN16ECO1
12"	Plain DIN PN10	SS 304	304 mm	R4FVS304PN10ECO1
12"	Plain DIN PN16	SS 304	304 mm	R4FVS304PN16ECO1
14"	Plain DIN PN10	SS 304	354 mm	R4FVS354PN16ECO1
14"	Plain DIN PN16	SS 304	354 mm	R4FVS354PN10ECO1
16"	Plain DIN PN10	SS 304	406 mm	R4FVS406PN10ECO1
16"	Plain DIN PN16	SS 304	406 mm	R4FVS406PN10ECO1



Fixed flange: DIN PN 10 / PN 16
Assembly: band clamps
Stainless steel AISI 304 - 1.4301. Stainless steel AISI 316 - 1.4401 on request available
Steel: white plated
Wall thickness hose shank: 2-3 mm

LARGE BORE FLANGE COUPLINGS

Swivel flange coupling with smooth hose shank with collar

ND / INCH	Flange type	Material	For hose	Reference
200	Plain DIN PN10	Steel	200 mm	FLG200PN10ECO1
200	Plain DIN PN16	Steel	200 mm	FLG200PN16ECO1
200	Plain DIN PN10	SS 304	200 mm	RR4FLG200PN10ECO1
200	Plain DIN PN16	SS 304	200 mm	RR4FLG200PN16ECO1
200	Pressed DIN PN10	SS 304	200 mm	RR4FLG200PN10ECO2
200	Pressed DIN PN16	SS 304	200 mm	RR4FLG200PN16ECO2



Fixed flange coupling with smooth hose shank with collar

ND / INCH	Flange type	Material	For hose	Reference
200	Plain DIN PN10	Steel	200 mm	FVG200PN10ECO1
200	Plain DIN PN16	Steel	200 mm	FVG200PN16ECO1
200	Plain DIN PN10	SS 304	200 mm	R4FVG200PN10ECO1
200	Plain DIN PN16	SS 304	200 mm	R4FVG200PN16ECO1



Swivel + fixed flange: DIN PN 10 / PN 16

Assembly: RK safety clamps

Stainless steel AISI 304 - 1.4301. Stainless steel AISI 316 - 1.4401 on request available

Steel: white plated

Wall thickness hose shank: 2-3 mm

D

CLAMPS & FERRULES

D.1. RK Safety clamps
D.2. RKP safety clamps
D.3. FLEXOLINE safety clamps
D.4. RKS steam clamps
D.5. FIXP band clamps
D.6. Swage ferrules

STANDARD

LMC's RK safety clamps are manufactured in compliance with EN 14420-3 / DIN 2817, and are used to assemble EN/DIN standardized hoses. Threaded-, quick- and flange couplings with a smooth hose shank complying with EN 14420-2 / DIN 2817 are assembled with RK safety clamps.

OPERATION

For safety reasons RK safety clamps should be used for larger hose diameters. RK safety clamps have a rim on the inside, which fits over the hose shank collar when the bolts are tightened. When RK safety clamps are assembled correctly, the coupling cannot be pulled out of the hose.
When a hose is withdrawn from service for any reason, the LMC-Couplings shells and couplings can be easily dismantled for reuse.



APPLICATION

Assembly of the rubber hoses used in food, pharmaceutical and transport industry applications.

Aluminium RK clamps are used in many applications, whilst brass RK clamps are used in loading and unloading terminals to prevent the risk of sparking. Stainless steel RK clamps are often used in clean working environments.

WORKING PRESSURE

-0.8 bar / -12 psi to 25 bar/362 psi

TEMPERATURE

-20°C/-4 °F to + 65°C/149°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature.

MATERIAL

- RK safety clamp shells

Drop forged aluminium	USA	ASTM B247, grade 6061-T6
	Germany	DIN 1749 grade AlMgSi1 F28 work stock No. 3.2315.61
	UK	BS 1472 HE 20 Grade 6061
Drop forged brass	USA	ASTM B16, grade C36000
	Germany	DIN 17660 grade CuZn36Pb3
	UK	BS 2847 grade CZ124
Cast stainless steel	USA	ASTM A666 grade 316 stainless steel
	Germany	DIN 17440 grade1.4401 X5CrNiMo1810
	UK	NF A35-579 grade Z6CND17.11

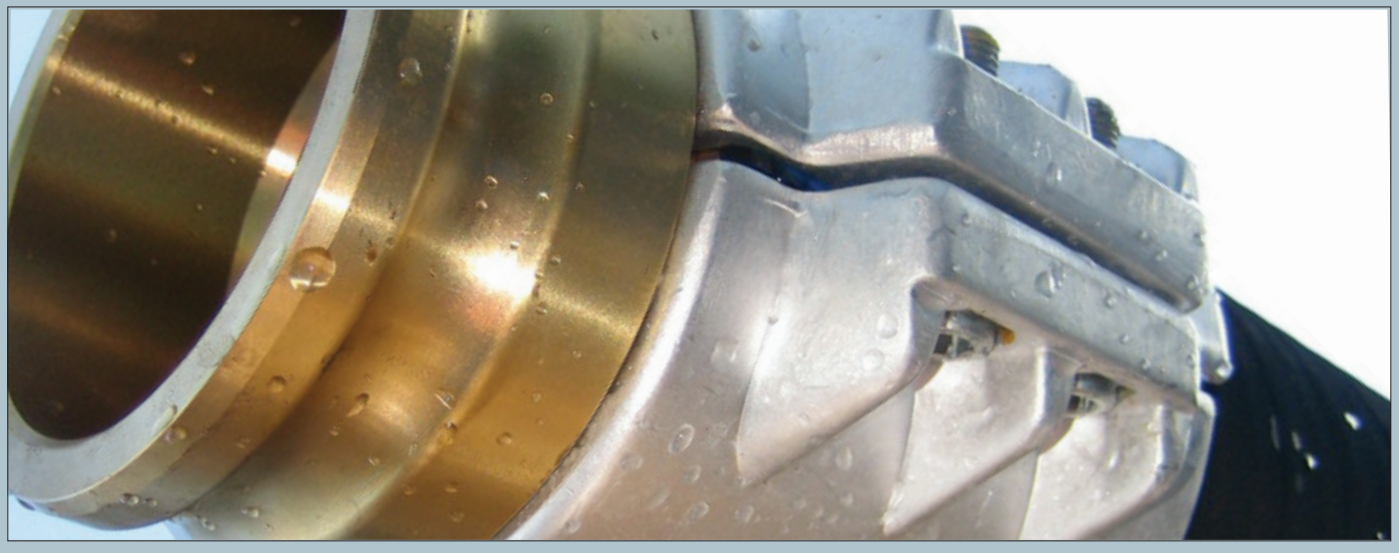
- Nuts and bolts

Aluminium RK safety clamps:	bolts complying with EN ISO 4762 / DIN 912, zinc plated 8.8 nuts complying with EN ISO 4032 / DIN 934, zinc plated 8.8
Brass RK safety clamps:	bolts complying with EN ISO 4762 / DIN 912, zinc plated 8.8 nuts complying with EN ISO 4032 / DIN 934, zinc plated 8.8
Stainless steel RK safety clamps:	bolts complying with EN ISO 4762 / DIN 912, stainless steel A.2 nuts complying with EN ISO 4032 / DIN 934, stainless steel A.2

RK safety clamps are supplied complete with nuts and bolts.

ASSEMBLY

See chapter E for the correct assembly instructions



RK SAFETY CLAMPS

RK SAFETY CLAMPS EN 14420-3 / DIN 2817: ALUMINIUM

ND	For hose mm	OD hose min-max mm	Dimensions Height mm	Dimensions Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight/pc Kg	Reference
15	13 x 5	22 - 24	50	51	4	M6	0.12	RK013
20	19 x 6	30 - 33	50	63	4	M6	0.12	RK019
25	25 x 6	36 - 39	50	69	4	M6	0.14	RK025
32	32 x 6	43 - 46	50	75	4	M6	0.15	RK032
40	38 x 6.5	50 - 52	50	83	4	M6	0.15	RK038
50	50 x 8	64 - 67	56	102	4	M8	0.29	RK050
50	50 x 10	69 - 71	56	102	4	M8	0.33	RK050010
65	65 x 7	78 - 82	74	120	4	M8	0.43	RK063
80	75 x 8	89 - 93	76	132	4	M8	0.49	RK075
80	75 x 10	94 - 97	76	132	4	M8	0.52	RK075010
100	100 x 8	114 - 119	120	166	4	M10	1.09	RK100
100	100 x 10	118 - 122	120	167	4	M10	1.15	RK100010
125	125 x 10	143 - 148	145	210	6	M10	1.88	RK125
150	150 x 10	168 - 174	180	227	6	M12	3.78	RK150
200	200 x 12	222 - 229	243	288	8	M12	6.52	RK200



Production method: drop forging
Set of RK safety clamps = one pair of clamps, nuts and bolts included
Bolts: DIN 912 / EN ISO 4762, zinc plated 8.8
Nuts: DIN 934 / EN ISO 4032, zinc plated 8.8

RK SAFETY CLAMPS EN 14420-3 / DIN 2817: BRASS

ND	Hose mm	OD hose min-max mm	Dimensions Height mm	Dimensions Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight/pc Kg	Reference
15	13 x 5	22 - 24	50	51	4	M6	0.29	RKM013
20	19 x 6	30 - 33	50	63	4	M6	0.34	RKM019
25	25 x 6	36 - 39	50	69	4	M6	0.39	RKM025
32	32 x 6	43 - 46	50	75	4	M6	0.40	RKM032
40	38 x 6.5	50 - 52	50	83	4	M6	0.50	RKM038
50	50 x 8	64 - 67	56	102	4	M8	0.90	RKM050
50	50 x 10	69 - 71	56	102	4	M8	0.90	RKM050010
65	63 x 8	78 - 82	74	120	4	M8	1.21	RKM063
65	63 x 10	83 - 87	74	120	4	M8	1.31	RKM063010
80	75 x 8	89 - 93	76	132	4	M8	1.39	RKM075
80	75 x 10	94 - 97	76	132	4	M8	1.52	RKM075010
100	100 x 8	114 - 119	120	166	4	M10	3.40	RKM100



Production method: drop forging
Set of RK safety clamps = one pair of clamps, nuts and bolts included
Bolts: DIN 912 / EN ISO 4762, zinc plated 8.8
Nuts: DIN 934 / EN ISO 4032, zinc plated 8.8

RK SAFETY CLAMPS

RK SAFETY CLAMPS EN 14420-3 / DIN 2817: STAINLESS STEEL

ND	Hose	OD hose min-max	Dimensions Height	Dimensions Width	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight/pc	Reference
	mm	mm	mm	mm			Kg	
15	13 x 5	22 - 24	50	51	4	M6	0.25	RKR013
20	19 x 6	30 - 33	50	63	4	M6	0.30	RKR019
25	25 x 6	36 - 39	50	69	4	M6	0.33	RKR025
32	32 x 6	43 - 46	50	76	4	M6	0.37	RKR032
40	38 x 6.5	50 - 52	50	83	4	M6	0.41	RKR038
50	50 x 8	64 - 67	56	102	4	M8	0.69	RKR050
65	63 x 8	78 - 82	74	120	4	M8	1.06	RKR063
80	75 x 8	89 - 93	76	132	4	M8	1.20	RKR075
100	100 x 8	114 - 119	120	166	4	M10	2.90	RKR100



Production method: investment casting
Set of RK safety clamps = one pair of clamps, nuts and bolts included
Bolts: DIN 912 / EN ISO 4762, stainless steel A.2
Nuts: DIN 934 / EN ISO 4032, stainless steel A.2

RK SAFETY CLAMPS

BOLTS EN ISO 4762

Size	Material	Box quantity	Weight/pc Kg	Reference
M6x20	Zinc plated 8.8	500	3.22	BVID06X20
M8x25	Zinc plated 8.8	200	2.94	BVID08X25
M10x40	Zinc plated 8.8	100	3.20	BVID10X40
M6x20	Stainless steel A.2	500	3.16	BRID06X20
M8x25	Stainless steel A.2	200	3.00	BRID08X25
M10x40	Stainless steel A.2	100	3.20	BRID10X40



NUTS EN ISO 4032

Size	Material	Box quantity	Weight/pc Kg	Reference
M6	Zinc plated 8.8	250	0.55	MVD06
M8	Zinc plated 8.8	250	1.20	MVD08
M10	Zinc plated 8.8	250	1.75	MVD10
M6	Stainless steel A.2	250	0.50	MRD06
M8	Stainless steel A.2	250	1.10	MRD08
M10	Stainless steel A.2	250	1.60	MRD10



IDENTIFICATION RING

ND	Material	OD mm	Weight/pc Kg	Reference
15	Stainless steel	34.0	0.03	IR013
20	Stainless steel	38.0	0.06	IR019
25	Stainless steel	43.0	0.07	IR025
32	Stainless steel	48.3	0.08	IR032
40	Stainless steel	60.3	0.12	IR038
50	Stainless steel	70.0	0.11	IR050



Polished stainless steel AISI 304 - EN 1.4301

STANDARD

RKP safety clamps and pins are manufactured in compliance with EN 11420-3 / DIN 2817 and are used to assemble EN/DIN standardized hoses.

OPERATION

RKP safety clamps are pre-assembled by means of a hinge pin on one side of the assembly, which facilitates and speeds up assembly. Once opened, the RKP shells are slid across the hose and the hose coupling collar. The inside of each shell clamp is grooved to grip the outer wall of the hose when the shell clamps are closed and the locking pin is inserted into the RKP safety clamp joint. When RKP safety clamps are correctly assembled, the coupling cannot be pulled out of the hose. RKP safety clamps are easy to assemble and disassemble. When the clamps are not damaged they can be reused.

APPLICATION

Assembly of the rubber hoses used in food, pharmaceutical and transport industry applications.

WORKING PRESSURE

-0.8 bar / -11 psi to 25 bar / 362 psi

TEMPERATURE

-20°C/-4 °F to + 65°C/149°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature.

MATERIAL

- RKP safety clamp shells
  Forged aluminium
- Hinge and locking pin
  Stainless steel AISI 305 - 1.4303

RKP safety clamps are supplied complete with locking pins.



RKP SAFETY CLAMPS

RKP SAFETY CLAMPS EN 14420-3 / DIN 2817: ALUMINIUM						
ND	For hose mm	OD hose min-max	Height mm	Width mm	Weight/pc Kg	Reference
25	25 x 6	36 - 38	46	58	0.14	RKP025
32	32 x 6	43 - 45	48	66	0.15	RKP032
40	38 x 6.5	50 - 52	52	73	0.15	RKP038
50	50 x 8	63 - 67	56	89	0.29	RKP050
65	63 x 8	78 - 81	74	107	0.43	RKP063
80	75 x 8	89 - 92	76	118	0.49	RKP075
100	100 x 8	114 - 119	82	123	0.55	RKP100



Production method: forging
Set of RKP safety clamps = one pair of clamps + locking pin
Hinge and locking pin: stainless steel AISI 305 - 1.4303

ACCESSORIES

IDENTIFICATION RING				
ND	Material	Ø ID mm	Weight/pc Kg	Reference
25	Stainless steel	40.0	0.07	IR025
32	Stainless steel	45.0	0.08	IR032
40	Stainless steel	56.0	0.12	IR038
50	Stainless steel	66.0	0.11	IR050
80	Stainless steel	92.0	0.28	IR075



Polished stainless steel AISI 304 - 1.4301
Identification rings are slid across the hose containing engraved technical information like working pressure, hose identification, certification number, ...

STANDARD

FLEXOLINE® safety clamps have been developed and manufactured in close collaboration with customers and hose manufacturers. The hose industry developed thin-wall hoses that are lighter and more flexible then ever before. The standard RK safety clamps complying with EN 14420-3 / DIN 2817 are too big for this new generation thin-wall hoses. To solve this inconvenience and for safety reasons LMC-Couplings developed FLEXOLINE® safety clamps for thin-wall rubber hoses.

OPERATION

FLEXOLINE® safety clamps are based on the shell type clamps, and are intended for use with thin-wall hoses. FLEXOLINE® safety clamps have a rim on the inside, which fits over the hose tail collar when the bolts are tightened. When FLEXOLINE® safety clamps are assembled correctly, the coupling cannot be pulled out of the hose. Another advantage of FLEXOLINE® safety clamps is that when a hose is withdrawn from service for any reason, the LMC-Couplings shells and couplings can be easily dismantled for reuse if not damaged during service.
FLEXOLINE® safety clamps can be used to replace worm drive clamps or bolt clamps in hose coupling assemblies.

APPLICATION

Assembly of thin-wall rubber hoses

WORKING PRESSURE

-0.8 bar / -11 psi up to 25 bar/360 psi

TEMPERATURE

-20°C/-4 °F to + 65°C/149°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature.

MATERIAL

- FLEXOLINE® safety clamp shells

Forged aluminium	USA	ASTM B247, grade 6061-T6
	Germany	DIN 1749 grade AlMgSi1 F28 work stock No. 3.2315.61
	UK	BS 1472 HE 20 Grade 6061
Cast stainless steel	USA	ASTM A666 grade 316 stainless steel
	Germany	DIN 17440 grade1.4401 X5CrNiMo1810
	UK	BS 316 S16

- Nuts and bolts

Aluminium FLEXOLINE® safety clamps: bolts complying with EN ISO 4762 / DIN 912, zinc plated 10.9
nuts complying with EN ISO 4032 / DIN 934, zinc plated 10.9

FLEXOLINE® safety clamps are supplied complete with nuts and bolts.

ASSEMBLY

See chapter E for assembly instructions on smooth hose shank couplings.



FLEXOLINE® SAFETY CLAMPS

FLEXOLINE® SAFETY CLAMPS: ALUMINIUM

ND	For hose mm	OD hose min-max mm	Dimensions Height mm	Dimensions Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight/pc Kg	Reference
25	25 x 5.0	34 - 36	50	69	4	M6	0.19	FRK025005
32	32 x 5.0	41 - 43	50	76	4	M6	0.28	FRK032005
40	38 x 5.0	47 - 49	50	83	4	M6	0.28	FRK038005
50	50 x 5.0	59 - 61	56	96	4	M8	0.38	FRK050005
65	63 x 6.0	74 - 76	74	117	4	M8	0.53	FRK063006
80	75 x 6.0	86 - 88	76	128	4	M8	0.58	FRK075006
100	100 x 6.5	112 - 114	120	166	4	M10	1.16	FRK100065



Production method: forging
Set of FLEXOLINE® safety clamps = one pair of clamps, nuts and bolts included
Bolts: DIN 912 / EN ISO 4762, zinc plated 10.9
Nuts: DIN 934 / EN ISO 4032, zinc plated 10.9

FLEXOLINE® SAFETY CLAMPS: STAINLESS STEEL

ND	For hose mm	OD hose min-max mm	Dimensions Height mm	Dimensions Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight/pc Kg	Reference
50	50 x 5.5	60 - 62	56	96	4	M8	0.38	FRKR050005
65	63 x 6.0	74 - 76	74	117	4	M8	0.53	FRKR063006
80	75 x 6.5	87 - 89	76	128	4	M8	0.58	FRKR075006



Production method: investment casting
Set of FLEXOLINE® safety clamps = one pair of clamps, nuts and bolts included
Bolts: DIN 912 / EN ISO 4762, stainless steel A.2 class 70
Nuts: DIN 934 / EN ISO 4032, stainless steel A.2 class 70

FLEXOLINE® SAFETY CLAMPS

BOLTS EN ISO 4762

Size	Material	Box quantity	Weight/pc Kg	Reference
M6x20	Zinc plated 10.9	500	3.22	BVID06X20
M8x25	Zinc plated 10.9	200	2.94	BVID08X25
M10x40	Zinc plated 10.9	100	3.20	BVID10X40
M6x20	Stainless steel A.2	500	3.16	BRID06X20
M8x25	Stainless steel A.2	200	3.00	BRID08X25



NUTS EN ISO 4032

Size	Material	Box quantity	Weight/pc Kg	Reference
M6	Zinc plated 10.9	250	0.55	MVD06
M8	Zinc plated 10.9	250	1.20	MVD08
M10	Zinc plated 10.9	250	1.75	MVD10
M6	Stainless steel A.2	250	0.50	MRD06
M8	Stainless steel A.2	250	1.10	MRD08



IDENTIFICATION RING

ND	Material	Ø ID mm	Weight/pc Kg	Reference
25	Stainless steel	43.0	0.07	IR025
32	Stainless steel	48.3	0.08	IR032
40	Stainless steel	60.3	0.12	IR038
50	Stainless steel	70.0	0.11	IR050
80	Stainless steel	101.6	0.28	IR075
100	Stainless steel	129.0	0.44	IR100



Polished stainless steel AISI 304 - 1.4301
Identification rings are slid across the hose containing engraved technical information like working pressure, hose identification, certification number, ...

STANDARD

LMC's RKS steam clamps are manufactured in compliance with EN 14423 / DIN 2826 for use with low- and high-pressure steam hoses complying with EN ISO 6134.

OPERATION

RKS steam clamps are used in saturated steam and hot water applications. There are a number of physical differences between RKS steam clamps complying with EN 14423 / DIN 2826 and RK safety clamps complying with EN 14420-3 / DIN 2817:

- RKS steam clamps are physically larger and longer
- RKS steam clamps have deeper inner grove
- RKS steam clamps consist of a thicker wall

RKS steam clamps complying with EN 14423 / DIN 2826 are assembled using specially-designed steam couplings complying with EN 14423 / DIN 2826.

N.B.: Steam is dangerous. EN ISO 6134 forbids the use of quick release couplings in steam applications. Extra care and attention should be taken when choosing the correct hose, fitting and clamping solution. Under no circumstances may RKS steam clamps complying with EN 14423 be replaced by RK safety clamps complying with EN 14420-3 / DIN 2817. Such substitution will result in a dangerous hose assembly.

APPLICATION

Assembly of steam and hot water hoses

WORKING PRESSURE

Working pressure: 18 bar / 261 psi with a temperature of 210°C / 410°F
Test pressure: 90 bar / 1305 psi
Burst pressure: 180 bar / 2611 psi

TEMPERATURE

Saturated steam: +210°C / 410 °F
Hot water: +120°C / 248°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature



MATERIAL

- RKS steam clamp shells

Forged brass	USA	ASTM B16, grade C36000
	Germany	DIN 17660 grade CuZn36Pb3
	UK	BS 2847 grade CZ124
Investment cast stainless steel	USA	ASTM A666 grade 316 stainless steel
	Germany	DIN 17440 grade1.4401 X5CrNiMo1810
	UK	BS 970/4 grade 316S16

- Nuts and bolts

Brass RKS steam clamps:	bolts complying with EN ISO 4762 / DIN 912, zinc plated 8.8 nuts complying with EN ISO 4032 / DIN 934, zinc plated 8
Stainless steel RKS steam clamps:	bolts complying with EN ISO 4762 / DIN 912, stainless steel A.2 nuts complying with EN ISO 4032 / DIN 934, stainless steel A.2

RKS steam clamps are supplied complete with nuts and bolts.

ASSEMBLY

See chapter E for assembly instructions



RKS STEAM CLAMPS

RKS STEAM CLAMPS EN 14423 / DIN 2826: BRASS

ND	For hose mm	OD hose min-max mm	Material	Height mm	Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight kg	Reference
15	13 x 6	24 - 26	Brass	65	53	4	M6	0.33	RKS013
20	19 x 7	32 - 34	Brass	65	68	4	M8	0.50	RKS019
25	25 x 7.5	39 - 41	Brass	65	77	4	M8	0.58	RKS025
32	32 x 8	47 - 50	Brass	75	86	4	M8	0.72	RKS032
40	38 x 8	53 - 56	Brass	90	101	4	M10	1.30	RKS038
50	50 x 9	67 - 69	Brass	100	111	4	M10	1.58	RKS050



Production method: forged
Set of RKS steam clamps = one pair of clamps, nuts and bolts included
Bolts DIN 912 / EN ISO 4762, zinc plated 8.8
Nuts DIN 934 / EN ISO 4032, zinc plated 8

RKS STEAM CLAMPS EN 14423 / DIN 2826: STAINLESS STEEL

ND	For hose mm	OD hose min-max mm	Material	Height mm	Width mm	Nuts and bolts Quantity	Nuts and bolts Thread metric	Weight kg	Reference
13	13 x 6	24 - 26	SS	65	53	4	M6	0.31	RKSR013
20	19 x 7	32 - 34	SS	65	68	4	M8	0.46	RKSR019
25	25 x 7.5	39 - 41	SS	65	77	4	M8	0.53	RKSR025
32	32 x 8	47 - 50	SS	75	86	4	M8	0.78	RKSR032
40	38 x 8	53 - 56	SS	90	101	4	M10	1.10	RKSR038
50	50 x 9	67 - 69	SS	100	111	4	M10	1.29	RKSR050



Production method: investment casting
Set of RKS steam clamps = one pair of clamps, nuts and bolts included
Bolts DIN 912 / EN ISO 4762, stainless steel A.2
Nuts DIN 934 / EN ISO 4032, stainless steel A.2

RKS STEAM CLAMPS

BOLTS COMPLYING EN ISO 4762

Size	Material	Box quantity	Weight	Reference
M6x20	Zinc plated 8.8	500	3.22	BVID06X20
M8x25	Zinc plated 8.8	200	2.94	BVID08X25
M10x40	Zinc plated 8.8	100	3.20	BVID10X40
M6x20	Stainless steel A.2	500	3.16	BRID06X20
M8x25	Stainless steel A.2	200	3.00	BRID08X25
M10x40	Stainless steel A.2	100	3.20	BRID10X40



NUTS EN ISO 4032

Size	Material	Box quantity	Weight	Reference
M6	Zinc plated 8	250	0.55	MVD06
M8	Zinc plated 8	250	1.20	MVD08
M10	Zinc plated 8	250	1.75	MVD10
M6	Stainless steel A.2	250	0.50	MRD06
M8	Stainless steel A.2	250	1.10	MRD08
M10	Stainless steel A.2	250	1.60	MRD10



IDENTIFICATION RING

ND	Material	For hose Ø OD mm	Weight/pc Kg	Reference
15	Stainless steel	34.0	0.03	IR013
20	Stainless steel	38.0	0.06	IR019
25	Stainless steel	43.0	0.07	IR025
32	Stainless steel	48.3	0.08	IR032
40	Stainless steel	60.3	0.12	IR038
50	Stainless steel	70.0	0.11	IR050



Polished stainless steel AISI 304 - 1.4301
Identification rings are slid across the hose containing engraved technical information like working pressure, hose identification, certification number, ...

STANDARD

FIXP band clamps are designed in compliance with DIN 3017, and are used to assemble all kinds of industrial hoses.

OPERATION

In case of smaller hose dimensions a single band clamp is used. For larger hose diameters the use of two bold clamps is recommended. When two FIXP clamps are assembled on a serrated hose shank always place them in a quarter turn opposed to each other. This will prevent leakage.

FIXP band clamps are preferably assembled with a torque wrench. Always use the recommended torque value because clamping force is vital to prevent leakage or blow-off. Thanks to the large band width together with the rounded band edges damage to the hose is prevented.

FEATURES



1. Tool spacer for easy assembly
2. Rounded bridge
3. High-quality spot welds for strength
4. Full bushing for strong bridge constructions
5. Guiding bridges guide the clamp ensuring smooth running when torqued tight
6. Rounded edge to prevent burrs and perforations when torqued tightly





APPLICATION

Sealing and retaining suction and pressure hoses with steel or plastic reinforcement and high shore hardness.

Torque moment - Nm for steel band clamps

HOSE DIAMETER MIN - MAX	NM STEEL CLAMP	NM SS CLAMP
17 - 19	4.5	25.0
20 - 22	4.5	25.0
23 - 25	4.5	25.0
26 - 28	4.5	25.0
29 - 31	8.0	25.0
32 - 35	8.0	25.0
36 - 39	8.0	25.0
40 - 43	8.0	50.0
44 - 47	8.0	50.0
48 - 51	8.0	50.0
52 - 55	8.0	50.0
56 - 59	8.0	50.0
60 - 63	25.0	50.0
64 - 67	25.0	50.0
68 - 73	25.0	50.0
74 - 79	25.0	50.0
80 - 85	25.0	50.0

HOSE DIAMETER MIN - MAX	NM STEEL CLAMP	NM SS CLAMP
86 - 91	25.0	50.0
92 - 97	25.0	50.0
98 - 103	25.0	50.0
104 - 112	25.0	50.0
113 - 121	25.0	50.0
122 - 130	25.0	50.0
131 - 139	50.0	50.0
140 - 148	50.0	50.0
149 - 162	50.0	50.0
163 - 174	50.0	50.0
174 - 187	50.0	50.0
188 - 200	50.0	50.0
210 - 213	50.0	50.0
214 - 226	50.0	50.0
227 - 239	50.0	50.0
240 - 252	50.0	50.0

Nm= maximum advised torque moment, we recommend working at 72% of the maximum values

MATERIAL

	STEEL (FIXP)	STAINLESS STEEL (FIXPR)
Clamp	W1, galvanised steel band	W4, stainless steel AISI 304 - 1.4301
Bushing	Zinc-plated Q235LL	W4, Stainless steel AISI 304 - 1.4301
Screw	8.8	Stainless steel A2 - galvanized
Bridge	W1, galvanised steel plate	Stainless steel AISI 304 - 1.4301

W1 clamps are the most frequently used. W4 clamps are recommended where greater corrosion resistance is required. We recommend W5 for use in high-corrosion environments.

W 1 Galvanised steel band. Low corrosion resistance.

Application: Household and indoor plumbing applications.

W 2 Chrome steel band and housing (AISI 430 – 1.4016). Zinc-plated mild steel screw. Low to average corrosion resistance, ensuring that corroded connections can be loosened.

Application: Cars, trucks and mechanical engineering applications with low corrosion-resistance requirements.

W 3 All components in chrome steel (AISI 430 – 1.4016). W3 is used exclusively in original equipment applications. Medium corrosion resistance.

Application: Automotive industry.

W 4 Nickel chrome steel band (AISI 304 – 1.4301, also known as V2A). High corrosion resistance and bright durable surface.

Application: For critical automotive connections, such as fuel lines (SM 9 clamps made from W4), top-grade mechanical engineering applications, agricultural machinery, motorcycles, etc ...

W 5 All components in nickel chrome molybdenum steel (AISI 316 – 1.4401, also known as V4A). W5 is saltwater-resistant and is very hard to magnetise. Maximum corrosion resistance. Used close to critical components and electronic circuits.

Application: Ship building, defence, food , sewage treatment, chemical and high-specification mechanical engineering applications.

THREADS

Bolt: Metric



FIXP BAND CLAMPS

FIXP BAND CLAMP: STEEL W1

ND	Band with mm +/- 1	Band thickness mm	Screw mm	Nm	Reference
17 - 19	18.0	0.6	M5	4.5	FIXP017
20 - 22	18.0	0.6	M5	4.5	FIXP020
23 - 25	18.0	0.6	M5	4.5	FIXP023
26 - 28	18.0	0.6	M5	4.5	FIXP026
29 - 31	20.0	0.6	M6	8.0	FIXP029
32 - 35	20.0	0.8	M6	8.0	FIXP032
36 - 39	20.0	0.8	M6	8.0	FIXP036
40 - 43	20.0	0.8	M6	8.0	FIXP040
44 - 47	22.0	1.2	M6	8.0	FIXP044
48 - 51	22.0	1.2	M6	8.0	FIXP048
52 - 55	22.0	1.2	M6	8.0	FIXP052
56 - 59	22.0	1.2	M6	8.0	FIXP056
60 - 63	22.0	1.2	M8	25.0	FIXP060
64 - 67	22.0	1.2	M8	25.0	FIXP064
68 - 73	24.0	1.5	M8	25.0	FIXP068
74 - 79	24.0	1.5	M8	25.0	FIXP074
80 - 85	24.0	1.5	M8	25.0	FIXP080
86 - 91	24.0	1.5	M8	25.0	FIXP086
92 - 97	24.0	1.5	M8	25.0	FIXP092
98 - 103	24.0	1.5	M8	25.0	FIXP098
104 - 112	24.0	1.5	M8	25.0	FIXP104
113 - 121	24.0	1.5	M8	25.0	FIXP113
122 - 130	24.0	1.5	M8	25.0	FIXP122
131 - 139	26.0	1.7	M10	50.0	FIXP131
140 - 148	26.0	1.7	M10	50.0	FIXP140
149 - 161	26.0	1.7	M10	50.0	FIXP149
162 - 174	26.0	1.7	M10	50.0	FIXP162
175 - 187	26.0	1.7	M10	50.0	FIXP175
188 - 200	26.0	1.7	M10	50.0	FIXP188
201 - 213	26.0	1.7	M10	50.0	FIXP201
214 - 226	26.0	1.7	M10	50.0	FIXP214
227 - 239	26.0	1.7	M10	50.0	FIXP227
240 - 252	26.0	1.7	M10	50.0	FIXP240



Band material: W1, steel
Nm = torque moment

FIXP BAND CLAMPS

FIXP BAND CLAMP: STAINLESS STEEL W4

ND	Band with mm +/- 1	Band thickness mm	Screw mm	Nm	Reference
17 - 19	18.0	0.6	M5	4.5	FIXPR017
20 - 22	18.0	0.6	M5	4.5	FIXPR020
23 - 25	18.0	0.6	M5	4.5	FIXPR023
26 - 28	18.0	0.6	M5	4.5	FIXPR026
29 - 31	20.0	0.6	M6	8.0	FIXPR029
32 - 35	20.0	0.6	M6	8.0	FIXPR032
36 - 39	20.0	0.6	M6	8.0	FIXPR036
40 - 43	20.0	0.6	M6	8.0	FIXPR040
44 - 47	22.0	0.8	M6	8.0	FIXPR044
48 - 51	22.0	0.8	M6	8.0	FIXPR048
52 - 55	22.0	0.8	M6	8.0	FIXPR052
56 - 59	22.0	0.8	M6	25.0	FIXPR056
60 - 63	22.0	0.8	M8	25.0	FIXPR060
64 - 67	22.0	0.8	M8	25.0	FIXPR064
68 - 73	24.0	0.8	M8	25.0	FIXPR068
74 - 79	24.0	0.8	M8	25.0	FIXPR074
80 - 85	24.0	0.8	M8	25.0	FIXPR080
86 - 91	24.0	0.8	M8	25.0	FIXPR086
92 - 97	24.0	0.8	M8	25.0	FIXPR092
98 - 103	24.0	0.8	M8	25.0	FIXPR098
104 - 112	24.0	0.8	M8	25.0	FIXPR104
113 - 121	24.0	0.8	M8	25.0	FIXPR113
122 - 130	24.0	0.8	M8	25.0	FIXPR122
131 - 139	26.0	1.0	M10	50.0	FIXPR131
140 - 148	26.0	1.0	M10	50.0	FIXPR140
149 - 161	26.0	1.0	M10	50.0	FIXPR149
162 - 174	26.0	1.0	M10	50.0	FIXPR162
175 - 187	26.0	1.0	M10	50.0	FIXPR175
188 - 200	26.0	1.0	M10	50.0	FIXPR188
201 - 213	26.0	1.0	M10	50.0	FIXPR201
214 - 226	26.0	1.0	M10	50.0	FIXPR214
227 - 239	26.0	1.0	M10	50.0	FIXPR227
240 - 252	26.0	1.0	M10	50.0	FIXPR240



Band material: W4, stainless steel AISI 304 - 1.4301
Nm = torque moment

STANDARD

LMC-Couplings offers HRRK swage ferrules for the assembly of rubber hoses and HRP swage ferrules to assemble PTFE hoses.

OPERATION

HRRK swage ferrules

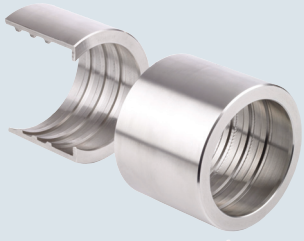
HRRK ferrules are swaged on rubber hoses using serrated hose couplings with collar. The HRRK ferrule is first placed around the top of the rubber hose and the hose shank with collar is inserted into the hose afterwards. The hose assembly is then placed in the swaging machine and the ferrule is crimped radially. The ferrule penetrates the hose wall, providing a 360° uninterrupted compression band around the hose. Special hose ferrules for hygienic hose coupling connection on request available.

HRP swage ferrules

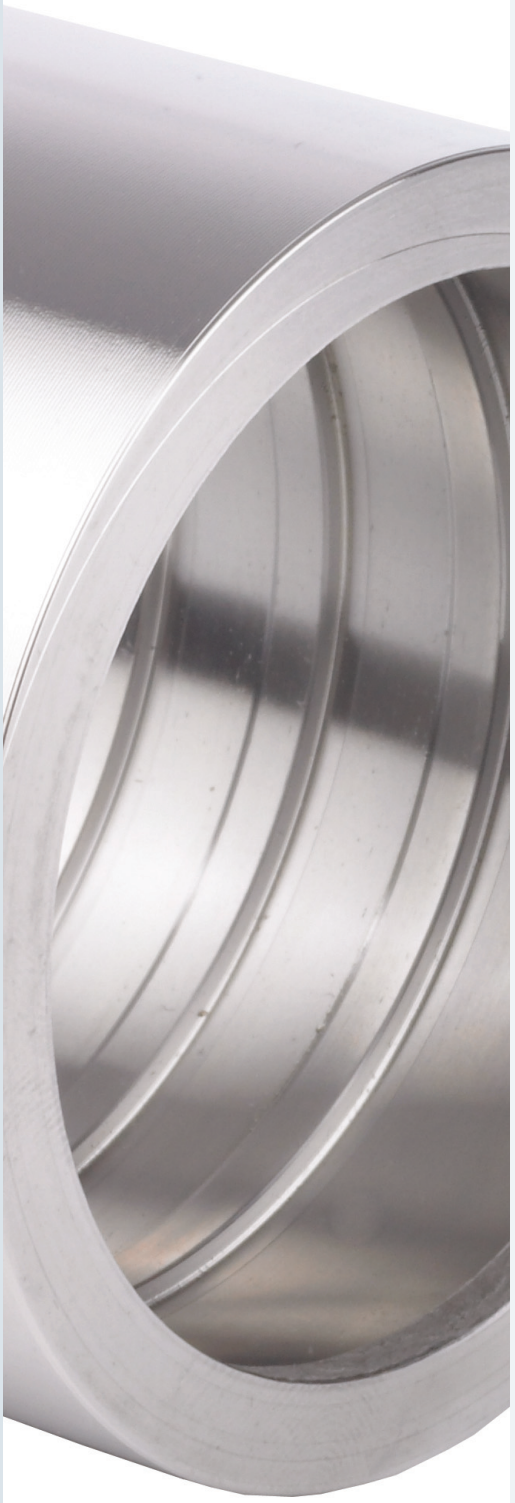
Compared with rubber hoses PTFE hoses are physically harder. HRP swage ferrules are used to swage on smooth hose couplings with collar. The swaging process is similar to that of HRRK swage ferrules. When swaging HRP ferrules, the PTFE hose, the HRP ferrule and the smooth hose shank are pressed together.

FEATURES

LMC's swage ferrules are designed to ensure long-term quality, hygiene and safety.



1. The smooth hose-coupling connection created by the swage ferrule prevents bacterial growth
2. Ferrules are specially designed to eliminate the risk of hose damage
3. Ferrule thickness ensures optimum crimping with no distortion, thus reducing the risk of disconnection
4. The internal profile of HRRK swage ferrules is similar to the grooved internal surface of RK safety clamps



SWAGE FERRULES

APPLICATION

HRRK swage ferrules

HRRK swage ferrules are used for the assembly of rubber hose assemblies from ND 15 up to ND 100.

HRP swage ferrules

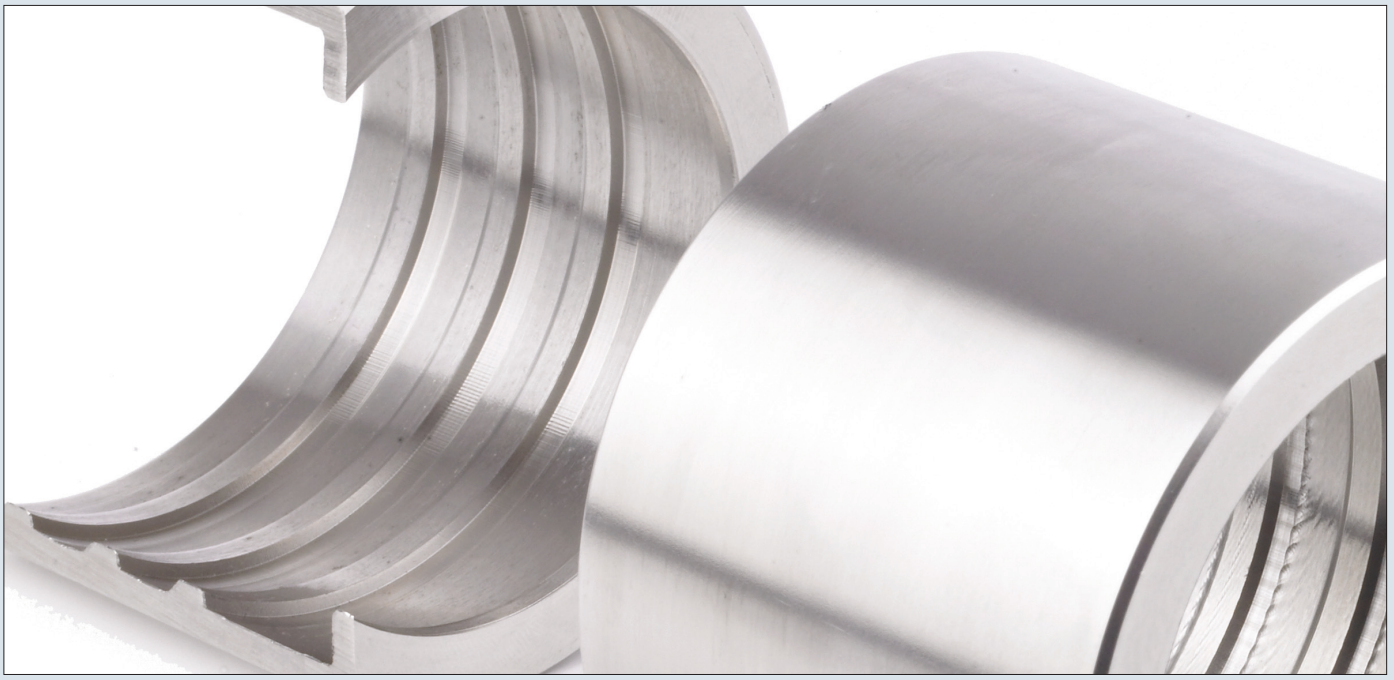
HRP swage ferrules are used for the assembly of PTFE hoses. From ND 6 up to ND 100.

WORKING PRESSURE

25 bar / 362 psi

MATERIAL

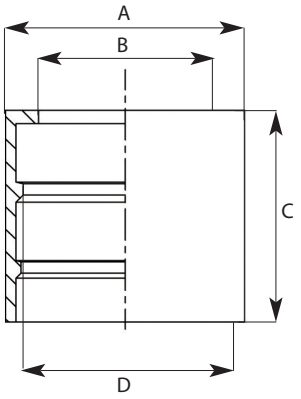
Stainless steel AISI 316 / 1.4401



SWAGE FERRULES

HRRK SWAGE FERRULES FOR RUBBER HOSES

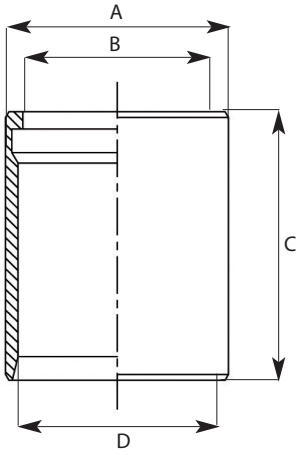
ND	Inch	Hose	Hose min	Hose max	A mm	B mm	C mm	D mm	Weight/pc kg	Reference
15	1/2′	13 x 4	19.0	22.2	28.5	19.2	42.0	22.2	0.06	HRRK013040
15	1/2′	15 x 5	23.0	24.2	31.4	20.5	42.0	24.2	0.04	HRRK015050
20	3/4′	20 x 6	30.0	32.4	39.8	27.7	42.0	32.4	0.10	HRRK020060
25	1′	25 x 7	37.0	40.6	47.5	34.4	42.2	40.6	0.12	HRRK025070
32	1.1/4′	32 x 6	42.0	45.4	52.0	40.7	42.0	45.4	0.13	HRRK032060
32	1.1/4′	32 x 8	46.0	49.9	58.1	42.2	42.0	49.9	0.18	HRRK032080
40	1.1/2′	38 x 6.5	49.0	53.3	60.0	47.1	44.5	53.3	0.19	HRRK038065
40	1.1/2′	38 x 9	54.0	58.1	67.5	48.9	47.5	58.1	0.26	HRRK038090
50	2′	50 x 6.5	61.0	64.5	72.7	59.6	60.0	64.5	0.33	HRRK050065
50	2′	50 x 8	64.0	67.9	77.0	60.7	60.0	67.9	0.39	HRRK050080
50	2′	50 x 11	70.0	74.6	86.0	62.9	60.0	74.6	0.55	HRRK050110
65	2.1/2′	65 x 8	79.0	82.9	93.0	74.7	70.0	82.9	0.55	HRRK065080
65	2.1/2′	65 x 12	87.0	91.8	104.0	77.6	70.0	91.8	0.66	HRRK065120
80	3′	75 x 8	89.0	92.9	102.7	86.7	83.0	92.9	0.70	HRRK075080
80	3′	75 x 12	97.0	101.8	114.0	89.6	83.0	101.8	1.05	HRRK075120
100	4′	100 x 10	118.0	122.4	135.0	113.2	99.0	122.4	1.47	HRRK100100
100	4′	100 x 16	130.0	135.8	150.0	117.6	99.0	135.8	1.47	HRRK100160



HRRK swage ferrules: stainless steel AISI 316 / 1.4401
Steel HSRK swage ferrules on request available.
Other dimensions available on request.
Assembly: HRRK swage ferrules are recommended for the assembly of rubber hoses.

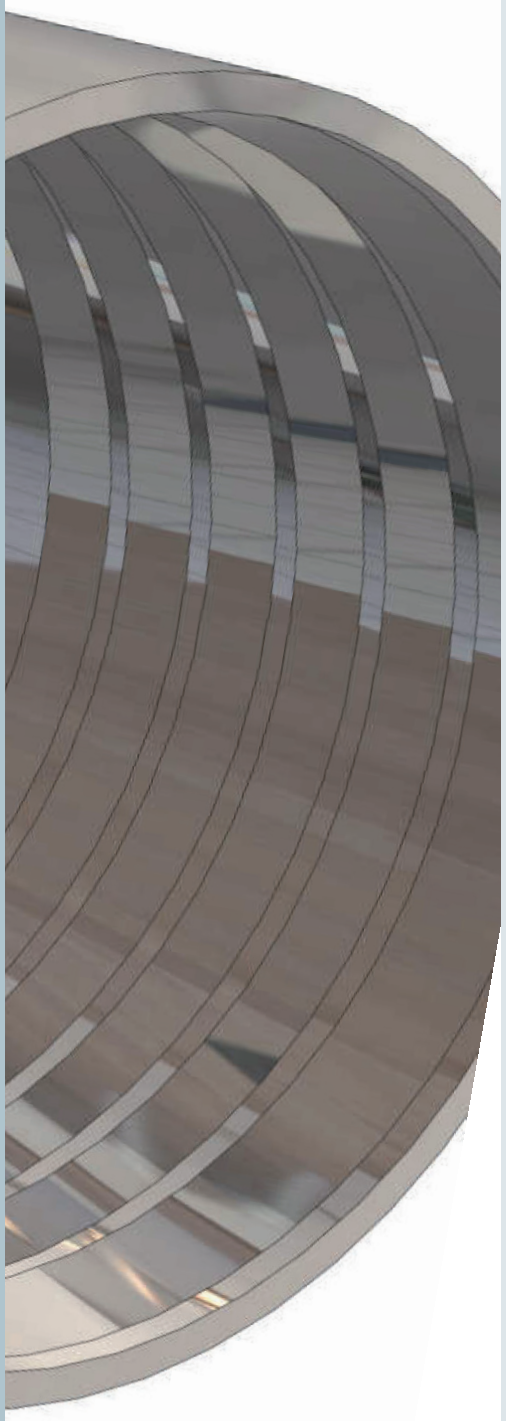
HRP SWAGE FERRULES FOR PTFE HOSES

ND	Inch	A mm	B mm	C mm	D mm	Weight/pc kg	Reference
6	1/4′	15.0	11.3	33.6	10.2	0.02	HRP06
8	5/16′	17.9	14.0	35.2	14.3	0.02	HRP08
10	3/8′	19.9	14.2	35.2	16.3	0.03	HRP10
12	1/2′	23.6	19.2	43.0	18.7	0.05	HRP12
16	5/8′	28.3	20.8	45.1	23.9	0.06	HRP16
20	3/4′	31.5	26.3	43.55	27.0	0.07	HRP20
25	1′	38.1	32.3	46.0	33.9	0.08	HRP25
32	1.1/4′	48.5	39.3	46.0	41.0	0.16	HRP32
40	1.1/2′	52.0	45.5	46.0	45.8	0.18	HRP38
50	2′	65.0	58.4	51.4	59.5	0.20	HRP50
65	2.1/2′	81.0	73.2	68.0	72.5	0.51	HRP65
80	3′	93.7	85.1	70.0	85.1	0.61	HRP75
100	4′	119.9	112.0	103.2	111.0	0.84	HRP100



HRP swage ferrules: stainless steel AISI 316 / 1.4401
Other dimensions available on request
Assembly: HRP swage ferrules are recommended for the assembly of PTFE hoses.

SS SWAGE FERRULES HRRL



STANDARD

LMC-Couplings offers HRRL swage ferrules for the assembly of industrial rubber hoses.

OPERATION

HRRL swage ferrules are swaged on industrial rubber hoses using hose couplings with collar. The HRRL is first placed around the top of the hose and the hose shank with collar is inserted into the hose afterwards. The hose assembly is then placed in the swaging machine and the ferrule is crimped radially. The ferrule penetrates the hose wall, providing a 360° uninterr upted compression band around the hose.

FEATURES

LMC's HRRL swage ferrules are cold drawn stainless steel ferrules with an inside sharp serration and designed to ensure long-term quality and safety.

1. Ferrules are specially designed to eliminate the risk of hose damage;
2. Ferrule thickness ensures optimum crimping with no distortion, thus reducing the risk of disconnection;
3. The internal surface of the HRRL swage ferrules is designed to have a very firm grip on the hose;
4. Also to use on thin-walled hoses.

APPLICATION

HRRL swage ferrules are used for the assembly of industrial rubber hoses from ND 38 up to ND 100 where a light version is required.

WORKING PRESSURE

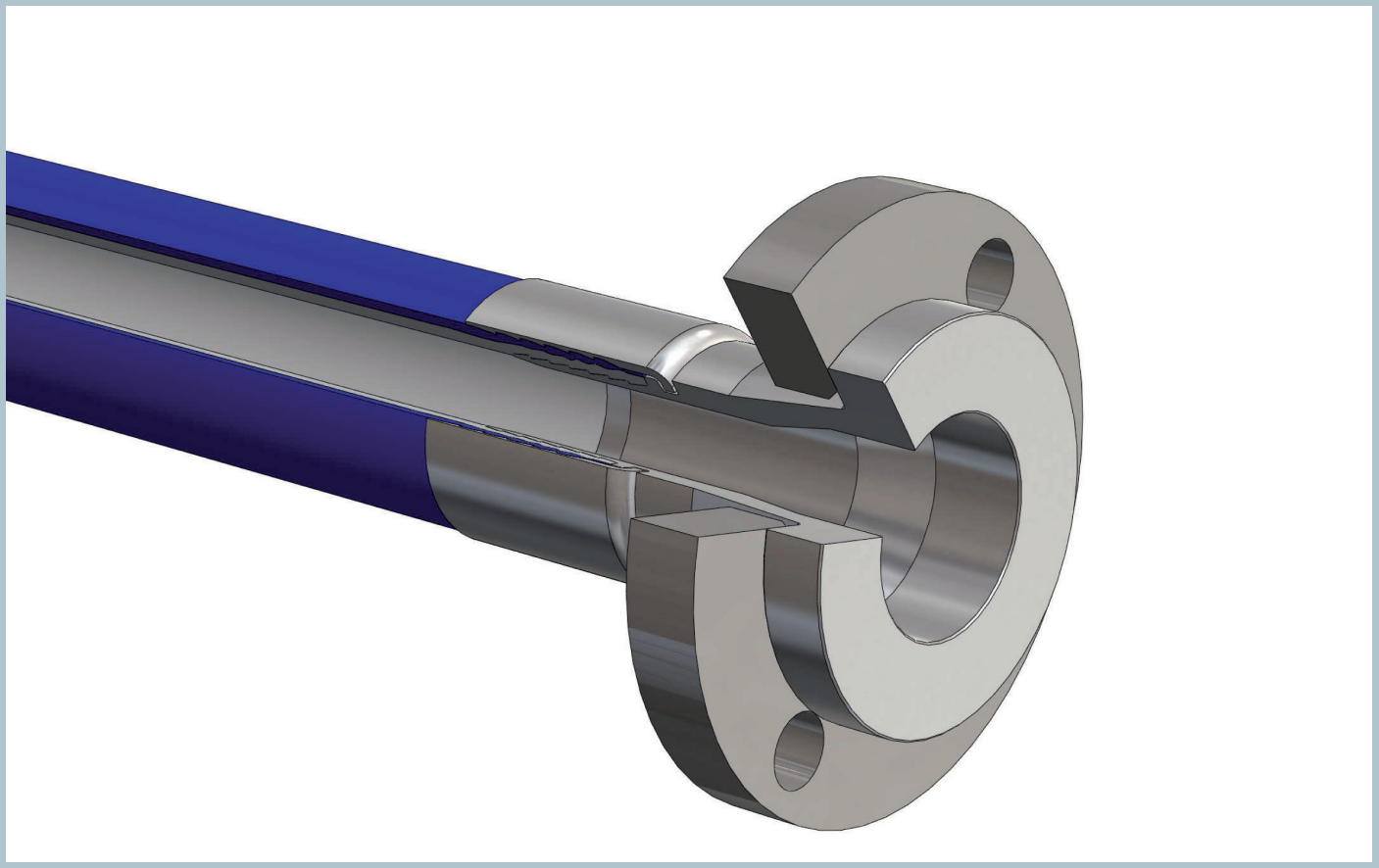
10 bar / 150 psi (for couplings with smooth tail)
16 bar / 230 psi (for couplings with serrated tail)

MATERIAL

Stainless steel AISI 304 / 1.4301

Swage ferrules HRRK vs. HRRL

	HRRK swage ferrules	new HRRL swage ferrules
Style	Heavy duty, also heavy wall sizes	Light duty, also thin wall sizes
Working pressure	25 bar	10 bar (assembled with smooth tail and collar) 16 bar (assembled with serrated tail and collar)
Dimension	ND 15 / 20 / 25 / 32 / 40 / 50 / 65 / 80 / 100	ND 40 / 50 / 65 / 80 / 100
Application	Food and pharma hoses	General applications
Finishing	Machined	Cold drawn
Advantages	Hygienic crimping method To fit with couplings acc. EN 14420-2	Cost-saving up to 45% To fit with couplings acc. EN 14420-2
Material	Stainless steel AISI 316 / 1.4401	Stainless steel AISI 304 / 1.4301



SS SWAGE FERRULES HRRL

HRRL SWAGE FERRULES FOR RUBBER HOSES

ND	For hose mm	OD Ø min.	OD Ø max.	Lenght	Reference
40	38 x 5 mm	46,9	48,9	55	HRRL038050
40	38 x 6,5 mm	48,9	51,9	55	HRRL038065
50	50 x 5,5 mm	59,5	61,9	61	HRRL050055
50	50 x 8 mm	64	66,9	61	HRRL050080
65	63 x 6 mm	73,8	75,9	75	HRRL065060
65	63 x 8 mm	75,5	79,9	75	HRRL065080
80	76 x 6,5 mm	85,8	88,9	90	HRRL075065
80	76 x 8 mm	91,2	93,2	90	HRRL075080
100	100 x 6,5 mm	112,5	115,8	110	HRRL100065
100	100 x 8 mm	114,5	118,1	110	HRRL100080



HRRL swage ferrules: stainless steel AISI 304 / 1.4301
Assembly: HRRL swage ferrules are recommended for the assembly of industrial rubber hoses.

E

TECHNICAL INFORMATION

E.1. Seals
E.2. Inspection documents
E.3. Production methods
E.4. Materials
E.5. Threads
E.6. Flanges
E.7. Hose assemblies
E.8. Temperature & pressure
E.9. Resistance table

DOWNLOADS on our website:
www.lmc-couplings.com

WWW.LMC-COUPLINGS.COM

Z. 5 MOLLEM 192
1730 MOLLEM ASSE | BELGIUM
TEL. +32 2 453 10 87
FAX. +32 2 452 98 78
SALES@LMC-COUPLINGS.COM

ORDER@LM-COUPLINGS.COM