



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 2000

THREADED COUPLINGS

- B.1. Screw hose couplings
- B.2. Nipples
- B.3. Food DIN couplings
- B.4. Food SMS couplings

STANDARD**■ Federal Mil A-A-59326A**

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-59326A. Federal Mil A-A-59326A 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-59326A Mil-specification does not apply to 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-59326A. This American standard does not apply to the hose connection side, but only to the coupling side.

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 / DIN 2817 has been added for assembly with RK safety clamps complying with EN 14420-3 / DIN 2817.

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

■ DIN 2828

Couplings produced to DIN 2828 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 DIN 2817 has been added for assembly with RK safety clamps complying with DIN 2817.



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



1. Stainless steel triangular handles, pin, ring and safety pin are standard on all material versions. Handles 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 (Deutsche Industriennorm)
9. Marked with material identification: stainless steel, brass, bronze, aluminium, polypropylene
10. Seals are available in NBR (standard), EPDM (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 with the exception of liquid gas and steam.

WORKING PRESSURE

INCH	1/2"		3/4"-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	Bar	Psi
Brass	11	150	18	250	11	150	9	125	7	100	5	75	5	75	-	-
Bronze	-	-	18	250	11	150	9	125	7	100	-	-	-	-	-	-
Aluminium	11	150	18	250	11	150	9	125	7	100	5	75	5	75	5	75
Stainless steel	11	150	18	250	16	225	14	200	7	100	7	100	7	100	3	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: ASTM A666 grade 316 / 1.4401

Brass: ASTM B584 grade C85700

Bronze: ASTM B584 grade C84400

Aluminium: ASTM B85 grade 380

Polypropylene: LMC's polypropylene cam & groove couplings contain 25-30% fiberglass 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 / 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	■	■	-	■	-	-

■ Available

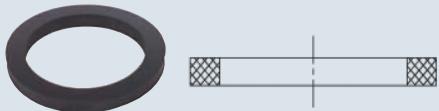
- Not available

Material

■ Seal

Standard seal

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



VLXB... : NBR - Silicone free (standard for all materials, except for polypropylene)

VLXE... : EPDM (standard for material polypropylene)

VLXV... : FPM

VLXH... : CSM

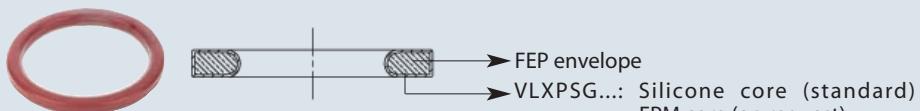
Closed seal

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.

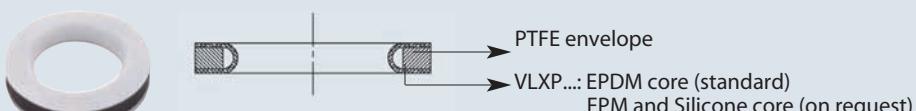
VLXPSG seals are produced without the use of animal derived ingredients, ADI free. This reduces the risk of BSE prion contamination.

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 / 392°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 hydrocarbons, petrol, diesel fuels, silicon oils and greases	Steam	
VLXH...	CSM	Chlorosulfonated polyethylene	Hypalon®	70 +/- 5 Shore A	-40°C 140°C	-40°F 284°F	Acids and oils, obsolescent and ozone resistant	Chlorine	
VLXPSG...	FEP / MVQ	Fluorinated ethylene propylene / Silicone	Teflon® FEP / 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 tetrafluoroethylene /	Teflon® / Keltan®	85 +/- 5 Shore D	-25°C 100°C	-13°F 212°F	Alcohols, acids	Hardness Oil, greases	
VLXP...V	PTFE / FPM	Poly tetrafluoroethylene / 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 tetrafluoroethylene / Fluorocarbon	TFM™ PTFE / Viton®	74 +/- 5 Shore D	-15°C 200°C	5°F 392°F	Acids and oils, obsolescent and ozone resistant	Benzene, toluene,	

Perbunan® is a registered trademark of Bayer AG / Keltan® is a registered trademark of DSM / Viton® is a registered trademark of DuPont Performance Elastomer
Hypalon® is a registered trademark of DuPont Performance Elastomer / Teflon® is a registered trademark of DuPont Performance Elastomer
Silplus® is a registered trademark of General Electric Co / TFM™ is a registered trademark of Dyneon.

ASSEMBLY

Hose

Worm drive clamps

RK safety clamps to EN-14420-3 / DIN 2817

RKP safety clamps to EN-14420-3 / DIN 2817

Pipe

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

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	G1	<ul style="list-style-type: none"> ■ Parallel thread ■ Pressure tight joint is obtained with a seal or o-ring 	<ul style="list-style-type: none"> ■ 55° degree thread angle ■ Truncation of root and crest are round
BSPT	British standard pipe taper	EN 10226-1 DIN 2999-1	R1	<ul style="list-style-type: none"> ■ Conical thread. ■ Pressure tight joint is achieved by the thread 	<ul style="list-style-type: none"> ■ 55° degree thread angle ■ Truncation of root and crest are round
NPT	National pipe thread (American standard pipe thread)	ANSI B 1.20.1	NPT 1	<ul style="list-style-type: none"> ■ Conical thread ■ Pressure tight joint is achieved by the thread 	<ul style="list-style-type: none"> ■ 60° degree round angle ■ Truncation of root and crest are flat

Cam & groove threads

COUPLING	TYPE	STANDARD			ON REQUEST
ADAPTOR					
Female threaded	A	BSP	EN 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		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 by the Research & Development department:

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

■ 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-59326A, 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.

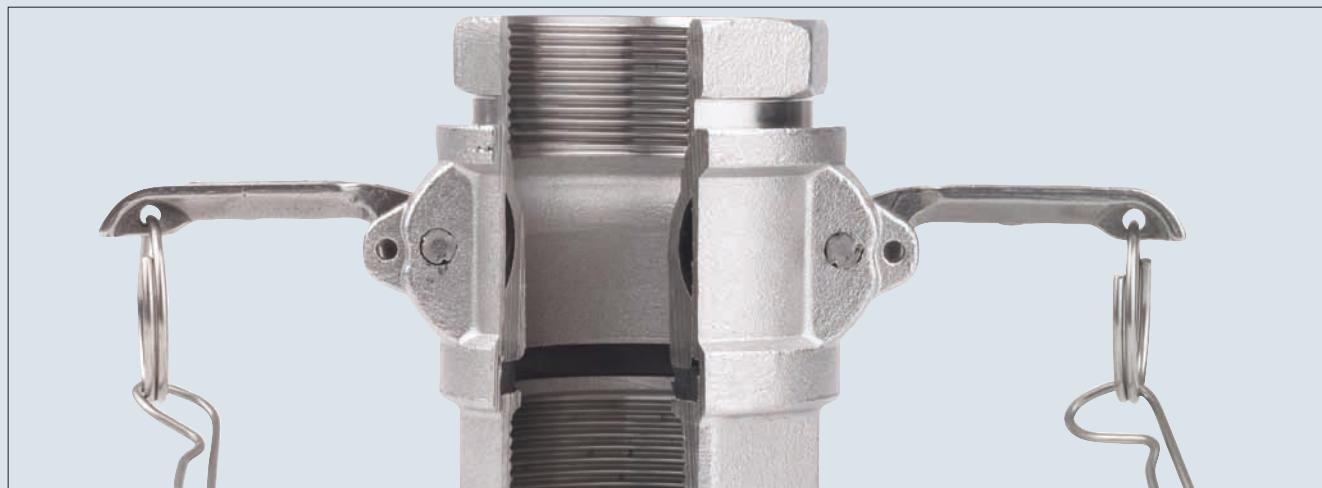
If the larger gauge passes across the adaptor head with no interruption, the component is compliant and its dimensions fall within the permissible + (plus) tolerances.



■ Material quality

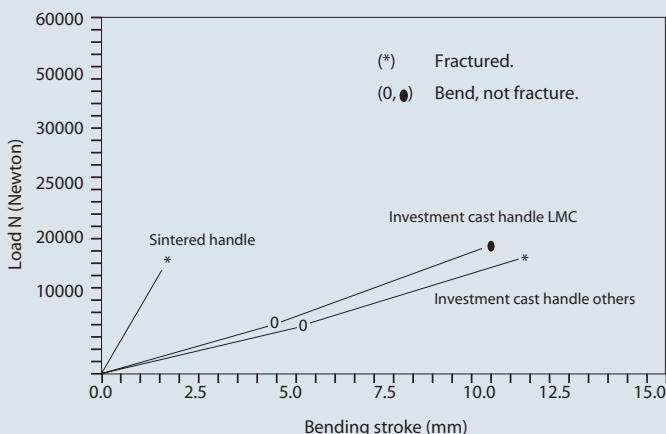
An in-house spectroscope is used to identify the materials used in the cam & groove couplings. The spectroscope analyses the precise quantity of all materials of the coupling.

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 14710 Newton, LMC handles do not even start to bend until subjected to a load of 9807 Newton. Even when subjected to a load of 23536 Newton LMC cam & groove handles still show no sign of fracture.



Bend investment cast LMC handle



Fractured sintered handle

■ Seal properties

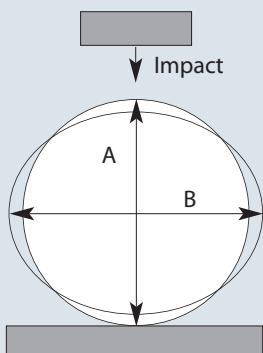
After chemical structure, seal compression set has the next most significant effect on the seal of cam & groove couplings. A seal of correct hardness will ensure that the cam & groove coupling is sealed properly and safely. Cam & groove seal hardness is tested using a durometer.

■ 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 seven 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

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

Measurements in mm

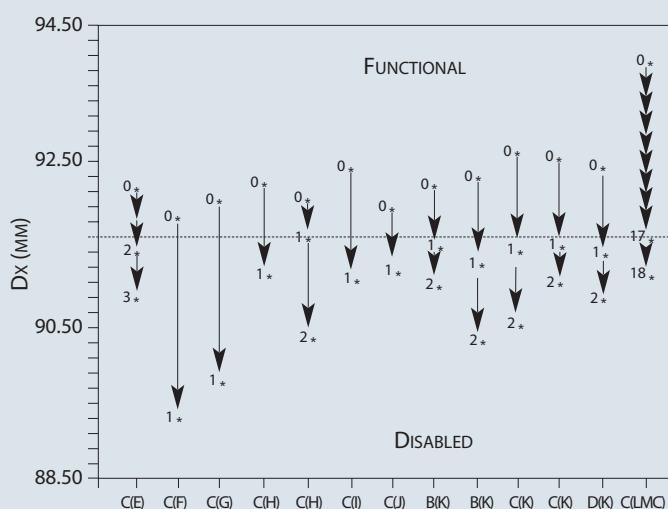
- Adaptor unable to fit in coupler
- Coupler cracked

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.

Five 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. It took 18 such impacts before LMC-Couplings couplers were unable to fit their adaptors.

The average number of impacts required before fractures became apparent 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
 - PVDF
-
- ECTFE (up to 1000µm)
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 / 302°F.
 - PFA (up to 200µm)
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 particularly well-suited to food and pharmaceutical industry applications.
 - PTFE (up to 40µm)
PTFE (Polytetrafluoroethylene) coatings are only 40µ thick. PTFE-coated couplings can withstand temperatures up to 260°C / 500°F. Like PFA-coated couplings, PTFE couplings have excellent anti-adhesive qualities and are suitable for food industry applications.
 - PVDF (up to 800µm)
Like ECTFE coatings, PVDF (Polyvinylidene fluoride) coatings can resist highly-concentrated and aggressive chemicals, but with the added advantage of high temperature resistance up to 260°C / 500°F. 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 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 40°C / 104°F. Contact our sales department for more 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.

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.

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. When using dust caps safety handles are recommended for extra security.



* 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
1/2" with 1 handle for all materials

CROSS REFERENCES

Cam & groove couplings

COUPLING	TYPE	DESCRIPTION	EN REFERENCE	COMMON USED REF.
	A	Adaptor, female threaded Federal Mil	-	633-ABS
	A	Adaptor, female threaded EN 14420-7 / DIN 2828 with thread seal	AF	633-ABSF
	B	Coupler, female threaded EN 14420-7 / Federal Mil	BF	633-BB
	C	Coupler, with serrated hose shank Federal Mil	-	633-C
	C	Coupler, with smooth hose shank EN 14420-7 / DIN 2828	CC	633-CC
	D	Coupler, female threaded Federal Mil	-	633-DBS
	D	Coupler, female threaded EN 14420-7 / DIN 2828 with thread seal	DF	633-DBSF
	E	Adaptor, with serrated hose shank Federal Mil	-	633-E
	E	Adaptor, with smooth hose shank EN 14420-7 / DIN 2828	EC	633-EC
	F	Adaptor, 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

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13

*

Size

Material

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

- : Federal Mil A-A-59326A
- D: EN 14420-7 / DIN 2828
- S: With safety handles
- SD: EN 14420-7 / DIN 2828 with safety handles
- N: NPT thread

Cam & groove seals

Cam & groove coupling

VL

X

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13

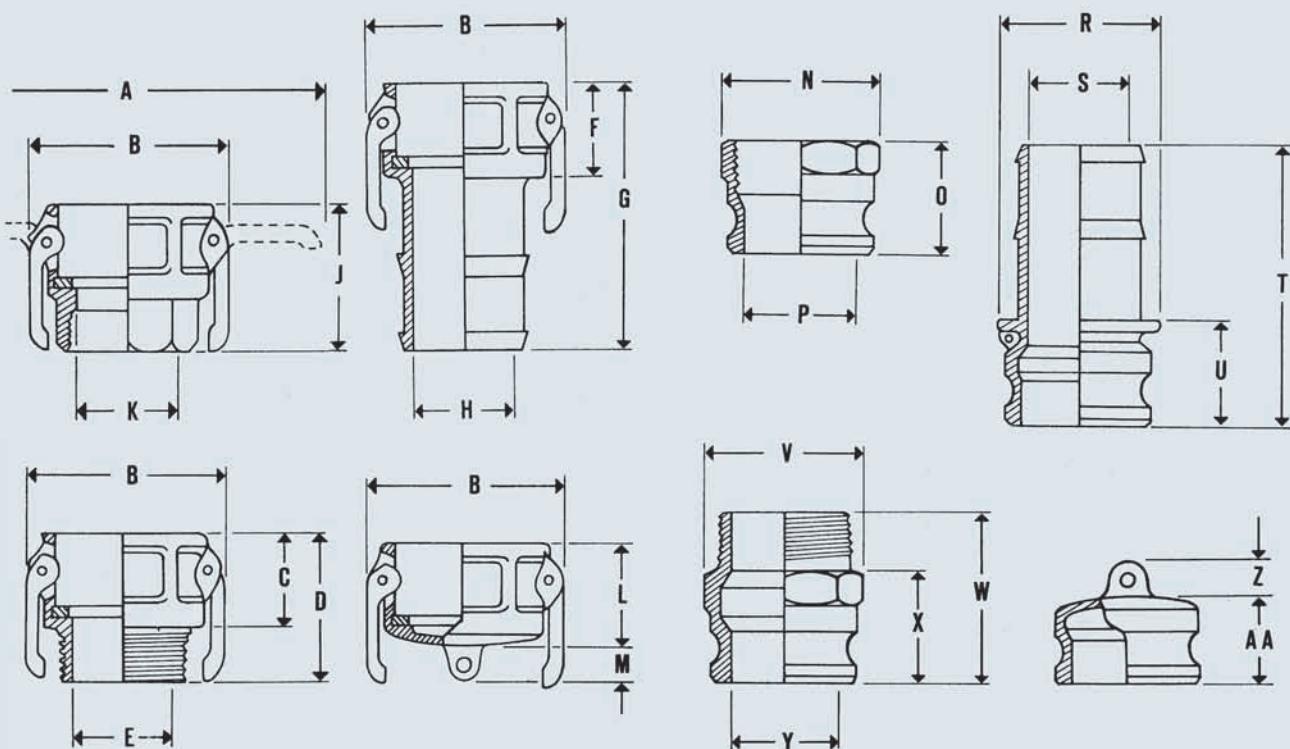
Size

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



ND	Inch	A	B	C	D	E	F	G	H	J	K	L
13	1/2"	30	40	31	46	13	31	66	10	46	14	33
20	3/4"	115	50	33	49	19	55	85	14	49	21	34
25	1"	138	62	40	60	24	40	98	20	60	26	41
32	1.1/4"	178	81	46	68	31	46	104	26	70	35	48
40	1.1/2"	185	87	48	70	38	48	109	32	73	38	50
50	2"	195	90	54	79	48	54	124	43	79	46	57
65	2.1/2"	208	111	55	85	62	55	135	54	87	56	59
80	3"	250	143	57	90	75	57	159	66	92	73	62
100	4"	270	171	61	101	100	61	169	89	101	98	65
125	5"	300	-	61	101	122	61	188	118	105	128	65
150	6"	400	254	67	112	150	67	240	140	111	144	73

M	N	O	P	S	T	U	V	W	X	Y	Z	AA
13	24	37	14	10	62	28	24	52	37	14	4	26
13	32	40	19	14	76	25	32	57	40	19	10	26
13	43	48	23	19	92	36	43	69	49	23	10	23
13	50	55	28	25	98	41	58	77	55	28	10	40
13	56	36	36	31	102	44	56	78	56	36	10	42
13	68	62	46	43	117	49	68	87	62	46	10	48
13	85	86	56	56	129	51	85	98	68	56	10	49
13	102	88	73	64	153	51	102	108	70	73	10	51
13	126	78	98	89	168	55	126	118	78	98	12	53
13	-	83	118	118	188	56	-	103	63	118	12	58
16	-	82	150	138	230	60	-	108	68	150	12	58

Dimensions in mm and are given as illustration only.

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



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-59326A
 Female thread: EN ISO 228-1, BSP
 ANSI B 1.20.1, NPT on request
 Stainless steel: AISI 316 / 1.4401
 ND 200 stainless steel on request available

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	1	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"	R 5	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	1	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



15	1/2"	R 1/2	Brass	NBR	1	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-59326A / 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 / 1.4401

ND 200 stainless steel on request available

CAM & GROOVE COUPLINGS

TYPE C: COUPLER WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Collar	Material seal	Coupler	Handles	Weight/pc Kg	Reference
15	1/2"	13	x	Aluminium	NBR	1	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	1	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
15	1/2"	13	x	Brass	NBR	1	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-59326A
 Assembly: worm drive clamps, buckling, binding and band clamps
 Stainless steel: AISI 316 / 1.4401
 Hose shank and collar are subject to change without prior notice
 ND 200 stainless steel on request available

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	1	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	1	0.13	VLDRO13
20	3/4"	G 3/4	Stainless steel	NBR	2	0.23	VLDRO19
25	1"	G 1	Stainless steel	NBR	2	0.31	VLDRO25
32	1.1/4"	G 1.1/4	Stainless steel	NBR	2	0.49	VLDRO32
40	1.1/2"	G 1.1/2	Stainless steel	NBR	2	0.55	VLDRO38
50	2"	G 2	Stainless steel	NBR	2	0.70	VLDRO50
65	2.1/2"	G 2.1/2	Stainless steel	NBR	2	1.00	VLDRO63
80	3"	G 3	Stainless steel	NBR	2	1.30	VLDRO75
100	4"	G 4	Stainless steel	NBR	2	2.14	VLDRO100
125	5"	G 5	Stainless steel	NBR	2	3.54	VLDRO125
150	6"	G 6	Stainless steel	NBR	2	4.61	VLDRO150
15	1/2"	G 1/2	Brass	NBR	1	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	VLDPO13
20	3/4"	G 3/4	Polypropylene	EPDM	2	0.08	VLDPO19
25	1"	G 1	Polypropylene	EPDM	2	0.13	VLDPO25
32	1.1/4"	G 1.1/4	Polypropylene	EPDM	2	0.21	VLDPO32
40	1.1/2"	G 1.1/2	Polypropylene	EPDM	2	0.23	VLDPO38
50	2"	G 2	Polypropylene	EPDM	2	0.27	VLDPO50
80	3"	G 3	Polypropylene	EPDM	2	0.50	VLDPO75
100	4"	G 4	Polypropylene	EPDM	3	0.75	VLDPO100

Coupling standard: Federal Mil A-A-59326A

Female thread: EN ISO 228-1, BSP

ANSI B 1.20.1, NPT on request

Stainless steel: AISI 316 / 1.4401

ND 200 stainless steel on request available



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
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-59326A
 Assembly: worm drive clamps, buckling, binding and band clamps
 Stainless steel: AISI 316 / 1.4401
 Hose shank and collar are subject to change without prior notice
 ND 200 stainless steel on request available

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
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-59326A / 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 / 1.4401

ND 200 stainless steel on request available

CAM & GROOVE COUPLINGS

TYPE DC: FEMALE DUST CAP

ND	Inch	Material	Coupler seal	Handles	Weight/pc Kg	Reference
15	1/2"	Aluminium	NBR	1	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	1	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
15	1/2"	Brass	NBR	1	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-59326A / EN 14420-7 / DIN 2828

Standard hole for chain

Stainless steel: AISI 316 / 1.4401

ND 200 stainless steel on request available

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
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-5932A / EN 14420-7 / DIN 2828

Stainless steel: AISI 316 / 1.4401

ND 200 stainless steel on request available

CAM & GROOVE COUPLINGS EN 14420-7 / DIN 2828

TYPE A: 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 / 1.4401

TYPE E: 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 D)

Stainless steel: AISI 316 / 1.4401

CAM & GROOVE COUPLINGS EN 14420-7 / DIN 2828

TYPE D: 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 / 1.4401
 Brass available upon request



Thread seal

TYPE C: 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



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 D)
 Stainless steel: AISI 316 / 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-59326A

Female thread: EN ISO 228-1, BSP

Version: monoblock safety body

Stainless steel: AISI 316 / 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-59326A / EN 14420-7 / DIN 2828

Male thread: EN 10226-1 / DIN 2999-1, BSPT

Version: monoblock safety body

Stainless steel: AISI 316 / 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-59326A

Assembly: worm drive clamps, buckling, binding and band clamps

Version: monoblock safety body

Stainless steel: AISI 316 / 1.4401

Collar is subject to change without prior notice

CAM & GROOVE SAFETY COUPLINGS

TYPE C: 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 D)

Version: monoblock safety body

Stainless steel: AISI 316 / 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-59326A / EN 14420-7 / DIN 2828

Standard chain access

Version: monoblock safety body

Stainless steel: AISI 316 / 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 - 125	3"-5"	Stainless steel	0.17	VLHRPR4S

Safety rebuilding set: Safety handle stainless steel AISI 304 - 1.4301

Pull ring stainless steel AISI 304 - 1.4301

Safety pin stainless steel AISI 304 - 1.4301

Safety hook stainless steel AISI 304 - 1.4301



VLHRPR2S
VLHRPR3S



VLHRPR4S



SAFETY
HOOK

CAM & GROOVE WELDING COUPLINGS

Butt weld vs socket weld

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

- cam & groove couplings with butt weld connection
- cam & groove couplings with socket 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° chamfered welding end.



Butt weld connection

Socket welding

In socket welding, the pipe or hose slides partially inside the coupling. Both components are then welded together at the point of insertion. Stainless steel socket welding couplings provide a tight and integral line system that remains unaffected by shock, vibration or thermal distortion.

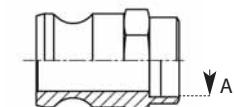
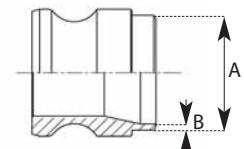


Socket weld connection

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	VLAWR013
20	3/4"	Stainless steel	0.16	VLAWR019
25	1"	Stainless steel	0.26	VLAWR025
32	1.1/4"	Stainless steel	0.41	VLAWR032
40	1.1/2"	Stainless steel	0.53	VLAWR038
50	2"	Stainless steel	0.69	VLAWR050
65	2.1/2"	Stainless steel	0.96	VLAWR063
80	3"	Stainless steel	1.38	VLAWR075
100	4"	Stainless steel	2.04	VLAWR100
125	5"	Stainless steel	3.52	VLAWR125
150	6"	Stainless steel	5.14	VLAWR150



30°

Welding end: butt weld end to inch size

Stainless steel: AISI 316 / 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



Welding end: butt weld end to inch size
Stainless steel: AISI 316 / 1.4401

TYPE AWS: ADAPTOR WITH SOCKET WELD CONNECTION

ND	Inch	Material	Weight/pc Kg	Reference
15	1/2"	Stainless steel	0.07	VLAWSR013
20	3/4"	Stainless steel	0.11	VLAWSR019
25	1"	Stainless steel	0.15	VLAWSR025
32	1.1/4"	Stainless steel	0.24	VLAWSR032
40	1.1/2"	Stainless steel	0.27	VLAWSR038
50	2"	Stainless steel	0.42	VLAWSR050
65	2.1/2"	Stainless steel	0.71	VLAWSR063
80	3"	Stainless steel	0.73	VLAWSR075
100	4"	Stainless steel	1.42	VLAWSR100
150	6"	Stainless steel	3.17	VLAWSR150



Welding end: socket weld end to inch size
Stainless steel: AISI 316 / 1.4401

TYPE DWS: COUPLER WITH SOCKET WELD CONNECTION

ND	Inch	Material	Weight/pc Kg	Reference
15	1/2"	Stainless steel	0.13	VLDWSR013
20	3/4"	Stainless steel	0.23	VLDWSR019
25	1"	Stainless steel	0.36	VLDWSR025
32	1.1/4"	Stainless steel	0.48	VLDWSR032
40	1.1/2"	Stainless steel	0.57	VLDWSR038
50	2"	Stainless steel	0.90	VLDWSR050
65	2.1/2"	Stainless steel	1.03	VLDWSR063
80	3"	Stainless steel	1.23	VLDWSR075
100	4"	Stainless steel	2.30	VLDWSR100
150	6"	Stainless steel	4.42	VLDWSR150



Welding end: socket weld end to inch size
Stainless steel: AISI 316 / 1.4401

CAM & GROOVE FLANGE COUPLINGS

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

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	DIN 2633 - PN 10/16	92.0	0.82	VLAFDR013
20	3/4"	Stainless steel	DIN 2633 - PN 10/16	95.0	1.22	VLAFDR019
25	1"	Stainless steel	DIN 2633 - PN 10/16	105.0	1.35	VLAFDR025
32	1.1/4"	Stainless steel	DIN 2633 - PN 10/16	114.0	2.05	VLAFDR032
40	1.1/2"	Stainless steel	DIN 2633 - PN 10/16	119.0	2.45	VLAFDR038
50	2"	Stainless steel	DIN 2633 - PN 10/16	129.0	3.29	VLAFDR050
65	2.1/2"	Stainless steel	DIN 2633 - PN 10/16	133.0	3.85	VLAFDR063
80	3"	Stainless steel	DIN 2633 - PN 10/16	144.0	4.80	VLAFDR075
100	4"	Stainless steel	DIN 2633 - PN 10/16	155.0	7.21	VLAFDR100
125	5"	Stainless steel	DIN 2633 - PN 10/16	160.0	9.82	VLAFDR125
150	6"	Stainless steel	DIN 2633 - PN 10/16	162.0	13.86	VLAFDR150



Coupling standard: Federal Mil A-A-59326A

Flange standard: EN 1092-1/ 11 B1; DIN 2633 form C, PN 10/16

Stainless steel: AISI 316 / 1.4401

*Total length flange coupling in mm and is subject to change without prior notice

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-59326A

Flange standard: ASTM A 182 and ASME B16.5, RF, ASA 150 lbs

Stainless steel: AISI 316 / 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/DIN

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	DIN 2633 PN 10/16	81.0	0.92	VLDFDR013
20	3/4"	Stainless steel	DIN 2633 PN 10/16	90.0	1.16	VLDFDR019
25	1"	Stainless steel	DIN 2633 PN 10/16	96.0	1.39	VLDFDR025
32	1.1/4"	Stainless steel	DIN 2633 PN 10/16	111.0	2.34	VLDFDR032
40	1.1/2"	Stainless steel	DIN 2633 PN 10/16	115.0	2.54	VLDFDR038
50	2"	Stainless steel	DIN 2633 PN 10/16	122.0	3.49	VLDFDR050
65	2.1/2"	Stainless steel	DIN 2633 PN 10/16	125.0	5.44	VLDFDR063
80	3"	Stainless steel	DIN 2633 PN 10/16	132.0	6.56	VLDFDR075
100	4"	Stainless steel	DIN 2633 PN 10/16	137.0	7.01	VLDFDR100
125	5"	Stainless steel	DIN 2633 PN 10/16	142.0	12.56	VLDFDR125
150	6"	Stainless steel	DIN 2633 PN 10/16	150.0	14.67	VLDFDR150



Coupling standard: Federal Mil A-A-59326A

Flange standard: EN 1092-1/ 11 B1; DIN 2633 form C, PN 10/16

Stainless steel: AISI 316 / 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-59326A

Flange standard: ASTM A 182 and ASME B16.5, RF, ASA 150 lbs

Stainless steel: AISI 316 / 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	VLA038
50	2"	Aluminium	0.30	VLA050
50-80	2" - 3"	Aluminium	0.48	VLA050075
65	2.1/2"	Aluminium	0.49	VLA063
80	3"	Aluminium	0.47	VLA075
80	3" - 4"	Aluminium	0.81	VLA075100
100	4"	Aluminium	0.89	VLA100

20	3/4"	Stainless steel	0.22	VLA019
25	1"	Stainless steel	0.36	VLA025
40	1.1/2"	Stainless steel	0.82	VLA038
40-50	1.1/2" - 2"	Stainless steel	0.96	VLA038050
50	2"	Stainless steel	2.08	VLA050
50-80	2" - 3"	Stainless steel	1.46	VLA050075
80	3"	Stainless steel	2.08	VLA075
80-100	3" - 4"	Stainless steel	2.55	VLA075100
100	4"	Stainless steel	3.32	VLA100

40	1.1/2"	Brass	0.59	VLA038
50	2"	Brass	0.90	VLA050
65	2.1/2"	Brass	1.49	VLA063
80	3"	Brass	1.45	VLA075
100	4"	Brass	2.33	VLA100

Coupling standard: Federal Mil A-A-59326A

Version: monoblock

Stainless steel: AISI 316 / 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 / 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 / 1.4401



CAM & GROOVE REDUCING COUPLINGS

TYPE A: REDUCING ADAPTOR FEMALE THREADED

ND - Inch Adaptor	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
20 - 3/4"	G 1/2	Polypropylene	0.03	VLAP019013
40 - 1.1/2"	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	Thread EN 10226-1	Material	Weight/pc Kg	Reference
40 - 1.1/2"	R 1	Aluminium	0.31	VLBA038025
50 - 2"	R 1.1/2	Aluminium	0.37	VLBA050038
80 - 3"	R 2	Aluminium	0.86	VLBA075050
100 - 4"	R 3	Aluminium	1.20	VLBA100075



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



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	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
40 - 1.1/2"	G 1	Aluminium	0.32	VLDA038025
50 - 2"	G 1.1/2	Aluminium	0.39	VLDA050038
80 - 3"	G 2	Aluminium	0.72	VLDA075050
100 - 4"	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	Thread EN 10226-1	Material	Weight/pc Kg	Reference
20 - 3/4"	R 1/2	Polypropylene	0.03	VLFP019013
40 - 1.1/2"	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 - Silicone free

Colour: Black

Dimensions in compliance with EN 14420-7, with exception of ND 15, ND 125, ND 150 and ND 200

See chapter E 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, with exception of ND 15, ND 125, ND 150 and ND 200

See chapter E 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, with exception of ND 15, ND 125, ND 150 and ND 200

See chapter E 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, with exception of ND 15, ND 125, ND 150 and ND 200

See chapter E 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 E 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

See chapter E 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

See chapter E 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 E for more information regarding chemical resistance



On request cam & groove seals made of anti-microbial rubber available

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 E 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 E 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 - 100	3" - 4"	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 - 1.4301
 Pull ring stainless steel AISI 304 - 1.4301
 Safety pin stainless steel AISI 304 - 1.4301



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

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

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	VLHRPR3L
80-100	3" - 4"	Stainless steel AISI 304	0.16	VLHRPR4L
150	6"	Stainless steel AISI 304	0.27	VLHRPR6L



L-handle: Patented handle stainless steel AISI 304 - 1.4301
 Pull ring: stainless steel AISI 304 - 1.4301
 Safety pin: stainless steel AISI 304 - 1.4301

STANDARD

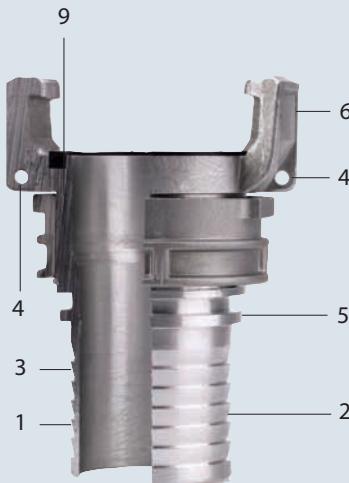
LMC's Guillemin couplings are symmetric couplings designed in compliance with EN 14420-8 / NF E 29-572.

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

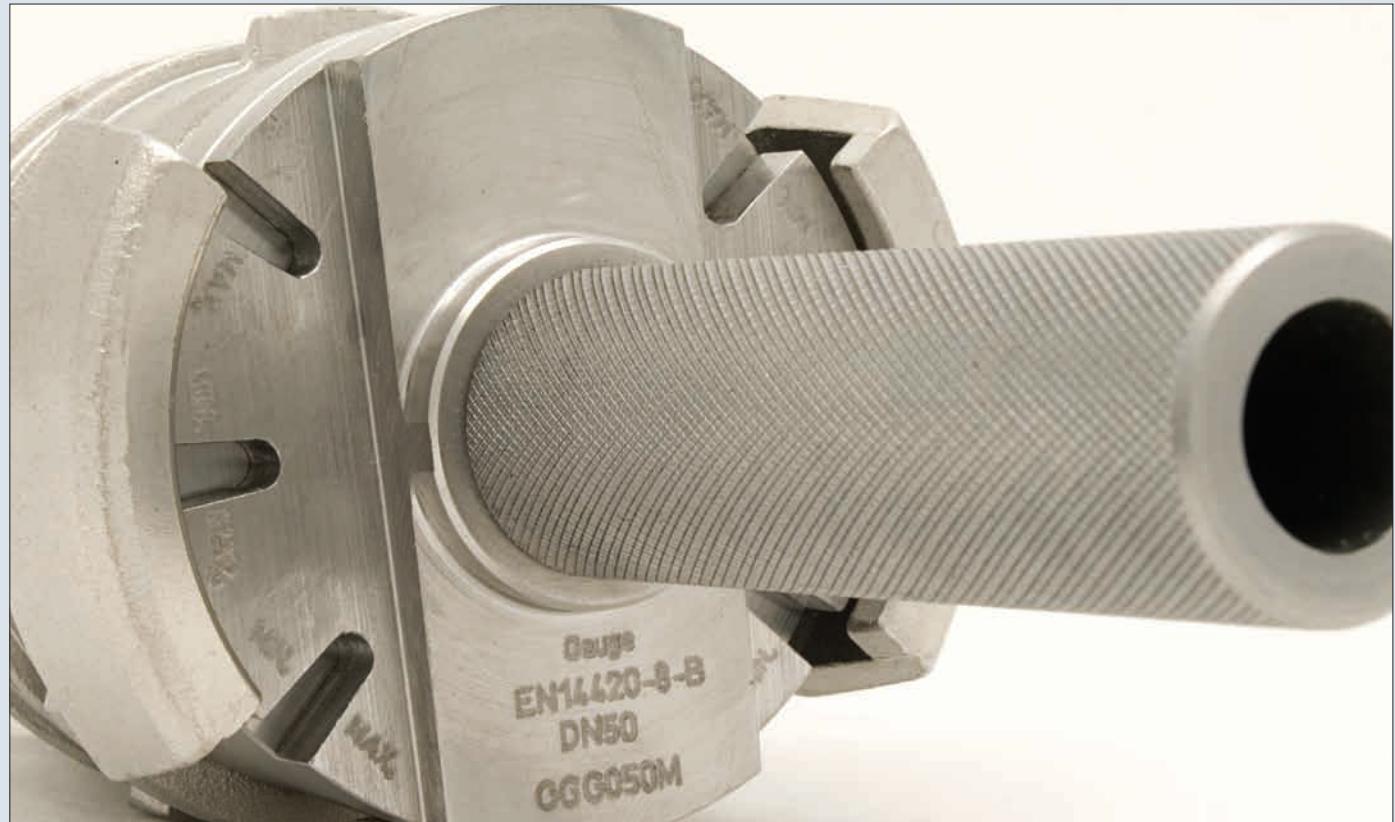
LMC's Guillemin couplings meet the high requirements of the EN 14420-8 / NF E 29-572 standard. A lot of attention was focused on product design. The design of the lugs, the ergonomic locking ring, the special treated surface, length of hose tail, plug with chain, branding ... and many more details guarantee 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 Rotation of 360°	Serrated Rotation of 45°	
Seal	Square seal	Profiled seal	

(a)

(b)



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

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
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

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
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

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
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

ND	Inch	Thread EN ISO 228-1	Material	Weight/pc Kg	Reference
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"	38	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	0.91	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

Seal: NBR - black

Chain 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	LGVG038050
40 - 65	1.1/2" - 2.1/2"	Aluminium	0.55	LGVG038065
40 - 80	1.1/2" - 3"	Aluminium	0.98	LGVG038080
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	Reference kg
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

Female thread: EN ISO 228-1

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	



(a)



(b)

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.

LMC's TW couplings are available in the following dimensions: ND 50, ND 80 and

ND 100, and are manufactured in compliance with EN 14420-6 / DIN 28450.

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 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. Dust caps are not intended for use as locking device.

A locking device must be used for all pressurised hose assemblies.

FEATURES



1. Designed in full compliance with
EN 14420-6 / DIN 28450
2. Brass TW coupling is drop 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 - EN 1.4401 by investment casting
Brass CW1617N by drop forging
Aluminium by drop forging
Polypropylene



- Seal

COUPLING	MATERIAL COUPLING	TYPE SEAL	STANDARD SEAL
Type MK: female part, female threaded with locking lever	Brass	Profiled seal*	NBR-black
Type VK: male part, female threaded	Brass	Thread seal	PUR- 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
Type VK: male part, female threaded	Stainless steel	Thread seal	PTFE-white
Type MB: dust cap	Stainless steel	Square seal	PTFE-white
Type MB: dust cap	Aluminium	Square seal	CSM-green
Type MB: dust cap			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 safety clamps in compliance with EN 14420-3 / DIN 2817

FLEXOLINE® safety clamps

Swage ferrules

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 1.4408 as specified in EN 10088-1

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

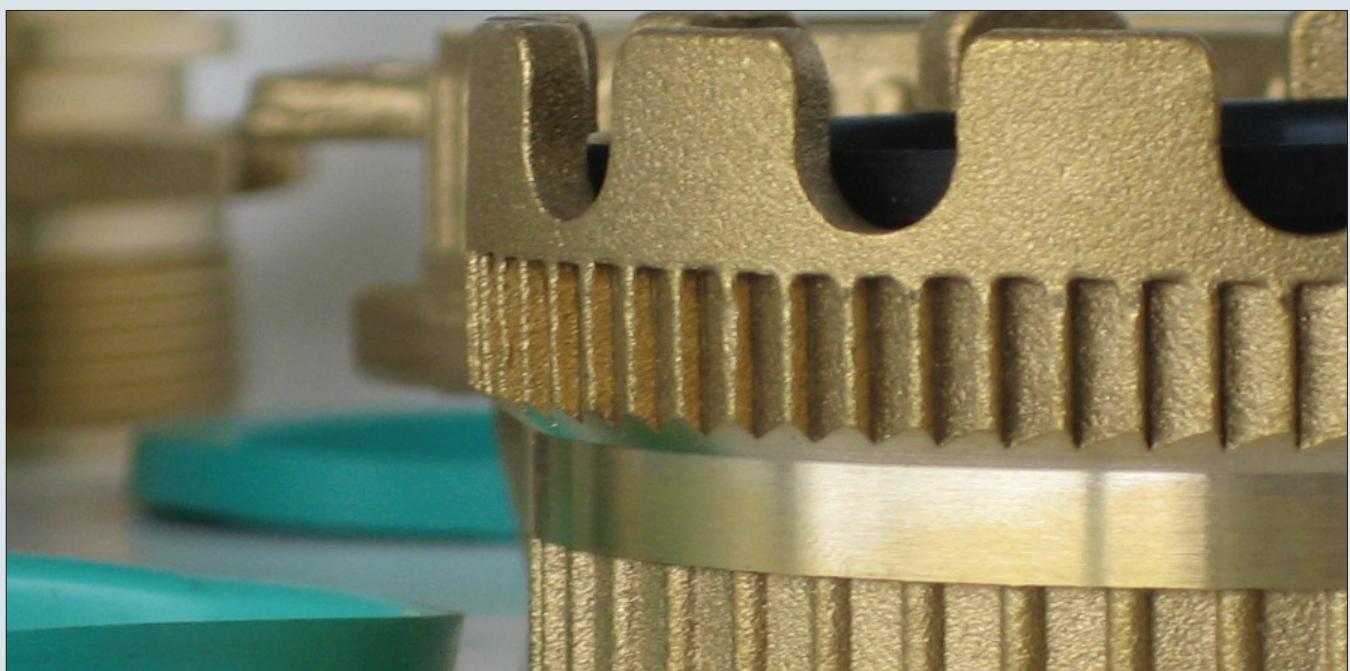


■ Design

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	TWF050	1505
MK080	TW 502-5	MKH080	TW 503-4	MB080	TW 506	TWF080	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

TW COUPLINGS

EN 14420-6 / DIN 28450

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	PUR	NBR	Brass	0.74	MK050
80	3"	G 3	PUR	NBR	Brass	1.46	MK080
100	4"	G 4	PUR	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 - EN 1.4408

Female thread: EN ISO 228-1, BSP

ND 100 is an o-ring seal



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	PUR	Brass	0.30	VK050
80	3"	G 3	PUR	Brass	0.78	VK080
100	4"	G 4	PUR	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 - EN 1.4408

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 - EN 1.4408



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	PUR	NBR	Brass	0.23	MKV050
80	3"	G 3	PUR	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 - EN 1.4408
Female thread: EN ISO 228-1, BSP

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
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 - EN 1.4408
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
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 - EN 1.4408
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

Stainless steel AISI 316 - EN 1.4408



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 female part, type VKST is a monoblock version

Standard hose shank EN 14420-2 / DIN 2817

Stainless steel AISI 316 - EN 1.4408



ACCESSORIES

CHAIN WITH S-HOOK

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

Stainless steel AISI 304 - EN 1.4301



TW COUPLINGS

PROFILED CROWN SEAL

ND	Inch	Material	Colour	\varnothing OD +/- 0.2 mm	\varnothing 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	\varnothing OD +/- 0.6 mm	\varnothing 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	\varnothing OD +/- 0.8 mm	\varnothing 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	\varnothing OD +/- 0.5 mm	\varnothing ID +/- 0.1 mm	Height +/- 0.5 -0.2 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"	PUR	Braun	60	49	2	0.002	X2RV050
80	3"	PUR	Braun	88	77	3	0.005	X2RV075
100	4"	PUR	Braun	114	100	3	0.008	X2RV100



Thread seal dimensions in compliance with EN 1.4420-5
Seal colours are subject to change without prior notice

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

20 bar / 290 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



'GK' COUPLINGS

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

A.5.

'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: 20 bar / 290 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: 20 bar / 290 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: 20 bar / 290 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: 20 bar / 290 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 interchangeable 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

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
- 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



STANDARD

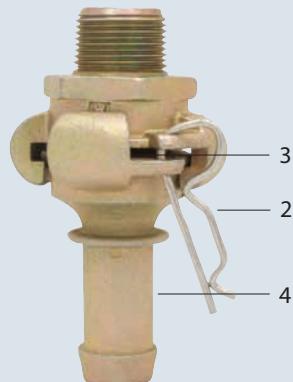
The safety version of LMC's European air couplings is similar to the European DIN 3489 standard for air couplings, but with the addition of a safety locking pin for extra security.

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 until 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

EUROPEAN AIR SAFETY 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
NBR	black	34.0	20.0	11.0	50	0.006	EAX



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.



Triclamp coupling with
welding end - type RTRIL ...

Triclamp seal profiled /
non profiled type TRIX ...

Triclamp coupling with
welding end - type RTRIL ...

Heavy duty clamp single
bolt - type TRIK ...

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 $\leq 0.8 \mu\text{m}$ (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

LMC TRICLAMP COUPLINGS
are manufactured in accordance with
the following international standards:

DIN 32676, ISO 1127, ASME BPE, ASME B31.3

EN 10204-3.1, EN 14420-3, EN 14420-4

ASME BPE, ASME B31.3, ASME B31.12

ANSI BPE, ASME B31.3, ASME B31.12

ASME BPE, ASME B31.3, ASME B31.12

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) \leq 0.8 μm

Outer roughness average value (Ra) \leq 1.2 μm

Inner Ra value of \leq 0.3 μm available on request.



TRICLAMP COUPLINGS

TRICLAMP COUPLINGS

DIN / INCH / ISO / IMPERIAL

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	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	RTRI3864ID47.6
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 COUPLINGS

DIN / INCH / ISO / IMPERIAL

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	RTRIL25DIN
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	1.1/4"	32.0	29.0	50.5	RTRIL32INCH
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	1/2"	12.7	9.4	25.0	RTRIL12IMP
IMPERIAL	3/4"	19.05	15.75	25.0	RTRIL19IMP
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 AISI 316Ti - 1.4501 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 - .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

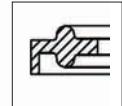
Standard	ND	For flange mm	ID Ø mm	Material	Colour	Profiled / Non-profiled	Reference
DIN 32676	10	34.0	10.2	NBR	Black	Profiled	TRIXB034.0X10.2P
DIN 32676	15	34.0	16.2	NBR	Black	Profiled	TRIXB034.0X16.2P
DIN 32676	20	34.0	20.2	NBR	Black	Profiled	TRIXB034.0X20.2P
DIN 32676	25	50.5	26.2	NBR	Black	Profiled	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	Green	Profiled	TRIXV034.0X10.2P
DIN 32676	15	34.0	16.2	FPM	Green	Profiled	TRIXV034.0X16.2P
DIN 32676	20	34.0	20.2	FPM	Green	Profiled	TRIXV034.0X20.2P
DIN 32676	25	50.5	26.2	FPM	Green	Profiled	TRIXV050.5X26.2P
DIN 32676	32	50.5	32.2	FPM	Green	Profiled	TRIXV050.5X32.2P
DIN 32676	40	50.5	38.2	FPM	Green	Profiled	TRIXV050.5X38.2P
DIN 32676	50	64.0	50.2	FPM	Green	Profiled	TRIXV064.0X50.2P
DIN 32676	65	91.0	66.2	FPM	Green	Profiled	TRIXV091.0X66.2P
DIN 32676	80	106.0	81.2	FPM	Green	Profiled	TRIXV106.0X81.2P
DIN 32676	100	119.0	100.2	FPM	Green	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	TRIXS119.0X100.2P

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



TRICLAMP COUPLINGS

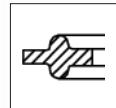
SEALS - INCH

Standard	Inch	For flange mm	ID Ø mm	Material	Colour	Profiled / Non-profiled	Reference
INCH	1"	50.5	22.9	NBR	Black red dotted	Non-profiled	TRIXB050.5X22.9
INCH	1.1/2"	50.5	35.1	NBR	Black red dotted	Non-profiled	TRIXB050.5X35.1
INCH	2"	64.0	47.8	NBR	Black red dotted	Non-profiled	TRIXB064.0X47.8
INCH	2.1/2"	77.5	60.5	NBR	Black red dotted	Non-profiled	TRIXB077.5X60.5
INCH	3"	91.0	72.1	NBR	Black red dotted	Non-profiled	TRIXB091.0X72.1
INCH	4"	119.0	97.6	NBR	Black red dotted	Non-profiled	TRIXB119.0X97.6

INCH	1/2"	25.0	9.4	EPDM	Black green dotted	Non-profiled	TRIXE025.0X9.4
INCH	3/4"	25.0	15.8	EPDM	Black green dotted	Non-profiled	TRIXE025.0X15.8
INCH	1"	50.5	22.9	EPDM	Black green dotted	Non-profiled	TRIXE050.5X22.9
INCH	1.1/2"	50.5	35.1	EPDM	Black green dotted	Non-profiled	TRIXE050.5X35.1
INCH	2"	64.0	47.8	EPDM	Black green dotted	Non-profiled	TRIXE064.0X47.8
INCH	2.1/2"	77.5	60.5	EPDM	Black green dotted	Non-profiled	TRIXE077.5X60.5
INCH	3"	91.0	72.1	EPDM	Black green dotted	Non-profiled	TRIXE091.0X72.1
INCH	4"	119.0	97.6	EPDM	Black green dotted	Non-profiled	TRIXE119.0X97.6

INCH	1/2"	25.0	9.4	FPM	Green	Non-profiled	TRIXV025.0X9.4
INCH	3/4"	25.0	15.8	FPM	Green	Non-profiled	TRIXV025.0X15.8
INCH	1"	50.5	22.9	FPM	Green	Non-profiled	TRIXV050.5X22.9
INCH	1.1/2"	50.5	35.1	FPM	Green	Non-profiled	TRIXV050.5X35.1
INCH	2"	64.0	47.8	FPM	Green	Non-profiled	TRIXV064.0X47.8
INCH	2.1/2"	77.5	60.5	FPM	Green	Non-profiled	TRIXV077.5X60.5
INCH	3"	91.0	72.1	FPM	Green	Non-profiled	TRIXV091.0X72.1
INCH	4"	119.0	97.6	FPM	Green	Non-profiled	TRIXV119.0X97.6

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	TRIXP025.0X15.8
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	47.8	PTFE	White	Non-profiled	TRIXP064.0X47.8
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



Colours are subject to change without prior notice.

TRICLAMP COUPLINGS

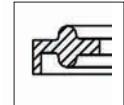
SEALS - ISO 1127

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	White or black	Profiled	TRIXV034.0X10.2P
ISO 1127	10	34.0	14.2	FPM	White or black	Profiled	TRIXV034.0X14.2P
ISO 1127	15	34.0	18.3	FPM	White or black	Profiled	TRIXV034.0X18.3P
ISO 1127	20	50.5	23.9	FPM	White or black	Profiled	TRIXV050.5X23.9P
ISO 1127	25	50.5	29.9	FPM	White or black	Profiled	TRIXV050.5X29.9P
ISO 1127	32	50.5	38.6	FPM	White or black	Profiled	TRIXV050.5X38.6P
ISO 1127	40	64.0	44.5	FPM	White or black	Profiled	TRIXV064.0X44.5P
ISO 1127	50	77.5	56.5	FPM	White or black	Profiled	TRIXV077.5X56.5P
ISO 1127	65	91.0	72.3	FPM	White or black	Profiled	TRIXV091.0X72.3P
ISO 1127	80	106.0	85.1	FPM	White or black	Profiled	TRIXV106.0X85.1P
ISO 1127	100	130.0	110.5	FPM	White or 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



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TRICLAMP COUPLINGS

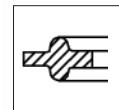
SEALS - IMPERIAL

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.



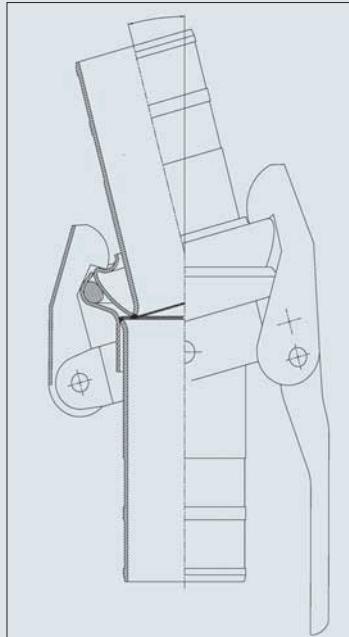
STANDARD

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 + and - 15° deflection.

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

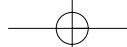


N.B.: Cardan couplings are not interchangeable with Bauer couplings.

FEATURES



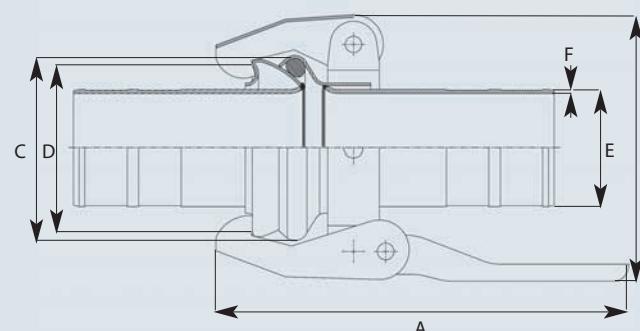
1. Specially designed serrated hose shank for a perfect binding assembly using band clamps and safety clamps
2. Extra-thick wall for longer working life
3. Thick SBR o-ring seal for a guaranteed total seal in pressure and vacuum applications
4. Deflection up to 30° when closed (-15°/+15° axis)
5. Easy 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 - 1.4301 (female section with steel lever)
- Seal
 - SBR
 - NBR, EPDM on request

ASSEMBLY

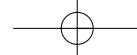
Band, bolt clamps

RK safety clamps to EN 14420-3 / DIN 2817

FLEXOLINE® safety clamp

Welding

A.9.2



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 - 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



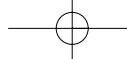
Galvanized carbon steel

Stainless steel AISI 304 - 1.4301

Stainless steel coupling: lever in galvanized carbon steel

Assembly: band or bolt clamps

Standard SBR seal included



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 - 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



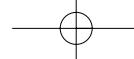
Galvanized carbon steel

Stainless steel AISI 304 - 1.4301

Stainless steel coupling: lever in galvanized carbon steel

Assembly: RK safety clamps complying with EN 14420-3 / DIN 2817
FLEXOLINE® safety clamps

Standard seal SBR included



CARDAN COUPLINGS

MALE WELDING PART

ND	For tube mm	Material	Weight/pc Kg	Reference
50	50.0	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	50.0	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



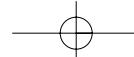
Non-galvanized carbon steel
Stainless steel AISI 304 - 1.4301
Assembly: Welding

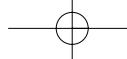
FEMALE WELDING PART

ND	For tube mm	Material	Weight/pc Kg	Reference
50	50.0	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	50.0	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 - 1.4301
Stainless steel coupling: lever in galvanized carbon steel
Assembly: Welding
Standard seal SBR included





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 - 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 - 1.4301

Stainless steel coupling: lever in galvanized carbon steel

Standard seal SBR included

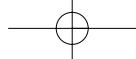
MALE PART WITH FLANGE IN COMPLIANCE WITH EN / DIN

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

Flange standard: EN 1092-1 / 11 B; DIN 2633 form C PN 10/16



CARDAN COUPLINGS

FEMALE PART WITH FLANGE IN COMPLIANCE WITH EN / DIN 2633

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

Flange standard: EN 1092-1 / 11 B; DIN 2633 form C PN 10/16

Standard seal SBR included

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

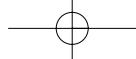
FEMALE REDUCING COUPLING WITH SERRATED HOSE SHANK

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	KMS150100
133	150	Carbon steel	6.55	KMS150125



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



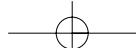
Male-male reversing coupling
Type: KDVT...



Female-female reversing coupling
Type: KDMT...



Female-male reversing coupling
Type: KGMKV...



IMPROVED PTFE LINING

For highly corrosive chemicals LMC-Couplings offers his customers, industrial hose couplings with improved PTFE lining. This unique lining process is totally handled at LMC's production facilities. Where conventional materials like brass, bronze, aluminium and even stainless steel are sometimes unsatisfactory in chemical resistance and/or working pressure, stainless steel couplings with CHEMALINE 2000 are often the perfect technical solution. Today we improved our PTFE lining process by using a NEW type of PTFE. Due to this improved PTFE the application possibilities of CHEMALINE 2000 are wider than conventional PTFE.

1. Substantially lower deformation under load
2. Lower permeation due to denser polymer structure and fewer voids
3. FDA compliant
4. Smoother surface finishes and excellent cleanability
5. Higher transparency
6. Higher barrier properties due to lower permeability



PFA & PTFE

The improved PTFE incorporates a perfluoropropyl vinyl ether modifier as used in the melt-processable fluorothermoplastic, PFA. Because the modifier content for the improved PTFE is much lower (less than 1%) than PFA, the molecular weight is reduced by one-fifth to that of conventional PTFE.

By using the same modifier, the same property profile of PFA is used without losing the typical properties of conventional PTFE.

Due to its lower permeability of the improved PTFE we guarantee a better corrosion resistance than conventional PTFE.

SURFACE ROUGHNESS

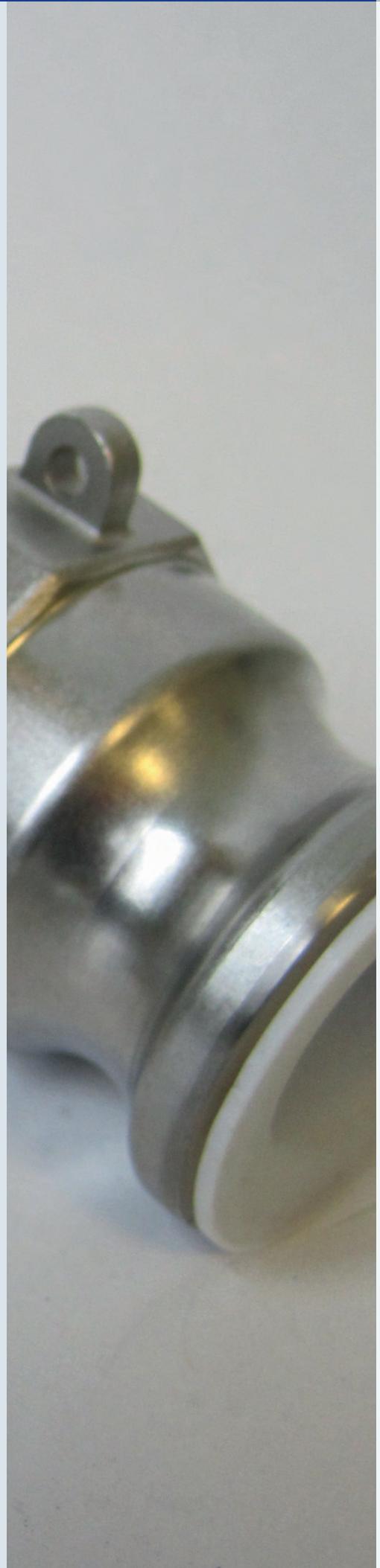
In the pharmaceutical and the bio industry the use of hose couplings with a low surface roughness is often required. The difference can clearly be spotted under a microscope at 50x magnification.



Conventional PTFE



Improved PTFE

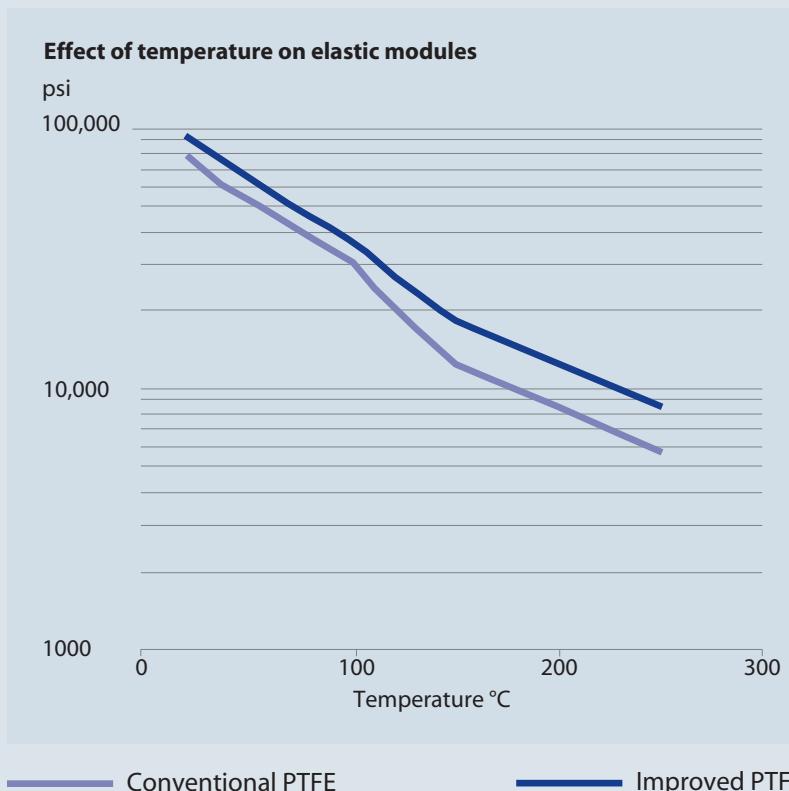


CHEMALINE 2000

INDUSTRY	FEATURES
CHEMICAL INDUSTRY	Exceptional chemical & thermal resistance Low permeability Reduced deformation under load Smooth surfaces High creep resistance
FOOD, BIO-TECH & PHARMACEUTICAL PROCESSING 	Excellent smooth surfaces Excellent cleanability FDA compliant
SEMICONDUCTOR MANUFACTURING FEATURES	Good weldability Extremely high purity



ELASTIC MODULUS IMPROVEMENT



Compared to conventional PTFE, the decline in elastic modulus with increasing temperature is in a lesser extent than the improved PTFE of LMC-Couplings. The advantages becomes even greater at higher temperatures.

DELIVERY PROGRAM

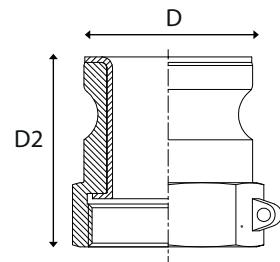
Quick couplings	Threaded couplings	Flange couplings
Cam & groove couplings EN 14420-7	Screw hose couplings EN 14420-5	Flange couplings EN 14420-4
TW couplings EN 14420-6	Nipples	
Guillemin couplings EN 14420-8	Food couplings DIN 11851 / SMS 1145	

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

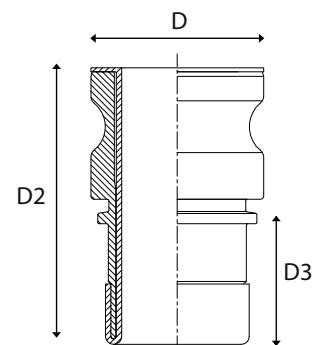
Female thread: EN ISO 228-1 BSP

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

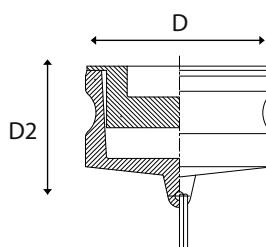
Shank standard: EN 14420-2 / DIN 2817

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

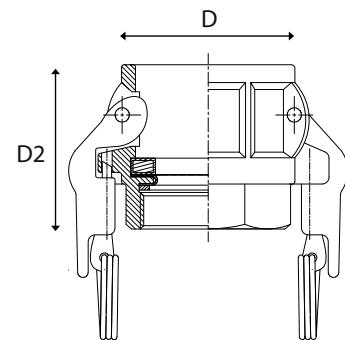
Material coupling: stainless steel AISI 316/1.4401

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

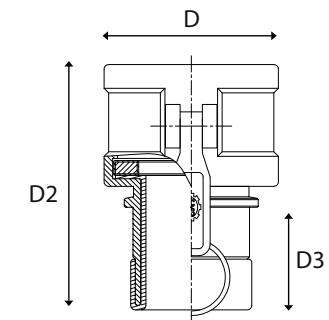
Incorporated thread seal during lining process

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

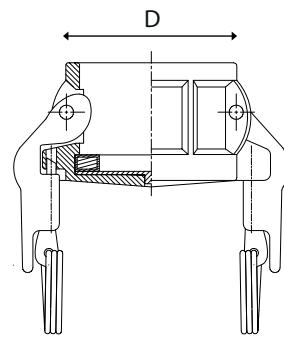
Assembly: RK safety clamps EN 14420-3 / DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)

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

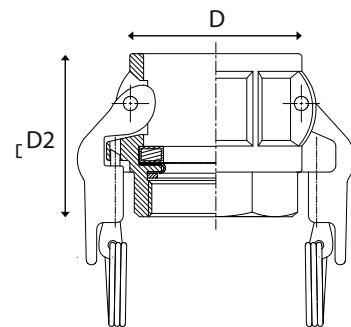
EN 14420-7/DIN2828

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CHEMALINE 2000

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

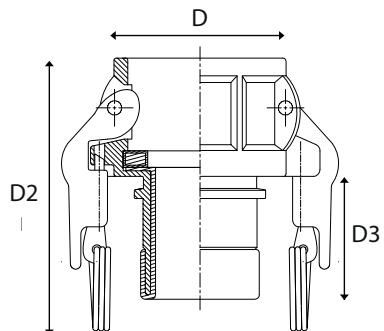
Incorporated thread seal during lining process

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

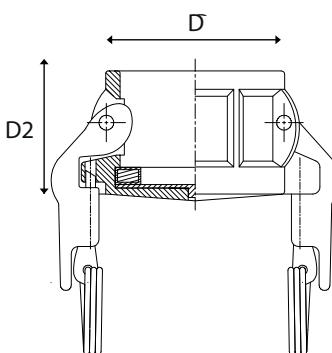
Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)

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

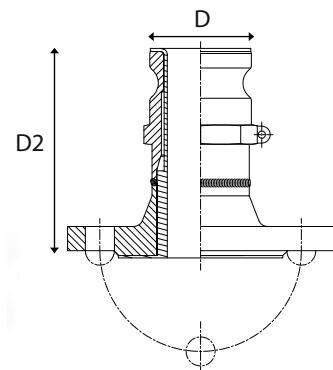
Material coupler seal: open envelope seal PTFE / EPDM type VLXP ...

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"	DIN / EN - PN25/40	32,1	95,0	VLAFDR019DCHEM2
25	1"	DIN / EN - PN25/40	36,7	105,0	VLAFDR025DCHEM2
32	1.1/4"	DIN / EN - PN25/40	45,5	114,0	VLAFDR032DCHEM2
40	1.1/2"	DIN / EN - PN25/40	53,4	119,0	VLAFDR038DCHEM2
50	2"	DIN / EN - PN10/16	63,0	129,0	VLAFDR050DCHEM2
65	2.1/2"	DIN / EN - PN10/16	75,8	133,0	VLAFDR063DCHEM2
80	3"	DIN / EN - PN10/16	91,5	144,0	VLAFDR075DCHEM2
100	4"	DIN / EN - PN10/16	119,5	155,0	VLAFDR100DCHEM2



Coupling standard: EN 14420-7 / DIN 2828

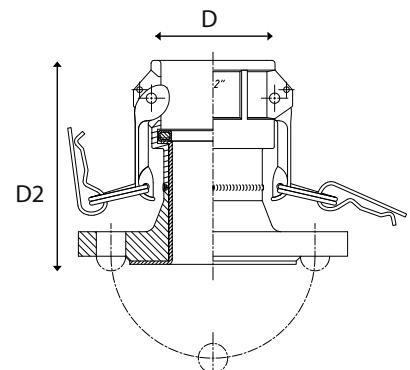
Flange standard: EN 1092-1 / 11 B1

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"	DIN / EN - PN25/40	32,4	90,0	VLDFDR019DCHEM2
25	1"	DIN / EN - PN25/40	37,3	96,0	VLDFDR025DCHEM2
32	1.1/4"	DIN / EN - PN25/40	46,0	111,0	VLDFDR032DCHEM2
40	1.1/2"	DIN / EN - PN25/40	54,0	115,0	VLDFDR038DCHEM2
50	2"	DIN / EN - PN10/16	63,8	122,0	VLDFDR050DCHEM2
65	2.1/2"	DIN / EN - PN10/16	76,5	125,0	VLDFDR063DCHEM2
80	3"	DIN / EN - PN10/16	92,2	132,0	VLDFDR075DCHEM2
100	4"	DIN / EN - PN10/16	120,3	137,0	VLDFDR100DCHEM2



Coupling standard: EN 14420-7 / DIN 2828

Flange standard: EN 1092-1 / 11 B1

Incorporated flange gasket during the lining process

Material coupling: stainless steel AISI 316/1.4401



CHEMALINE 2000

CHEMALINE 2000 - Guillemin

EN 14420-8/NF E 29-572

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CHEMALINE 2000

SERRATED HOSE SHANK WITH LOCKING RING

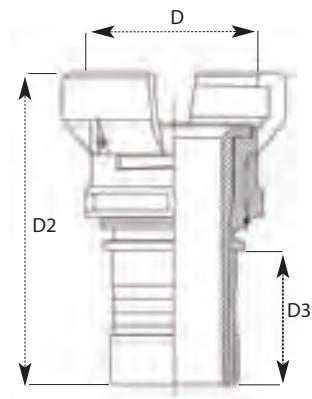
ND	Inch	For hose mm	D	D 2 min	D3 min	Reference
40	1.1/2"	38	55,0	104,0	35,5	RGSG038PTFE
50	2"	50	69,0	135,0	57,0	RGSG050PTFE
50	2"	55	69,0	115,0	46,0	RGSG055PTFE
65	2.1/2"	65	84,0	129,0	51,5	RGSG065PTFE
80	3"	75	103,0	169,0	77,0	RGSG075PTFE
80	3"	90	103,0	150,0	70,0	RGSG090PTFE
100	4"	100	123,0	182,0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

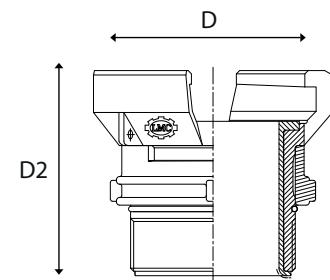
ND	Inch	Thread EN ISO 228-1	D	D 2 min	Reference
40	1.1/2"	G 1.1/2	55,0	75,0	RGMG038CHEM2
50	2"	G 2	69,0	90,0	RGMG050CHEM2
65	2.1/2"	G 2.1/2	69,0	90,0	RGMG065CHEM2
80	3"	G 3	84,0	109,0	RGMG080CHEM2
100	4"	G 4	103,0	109,0	RGMG100CHEM2

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



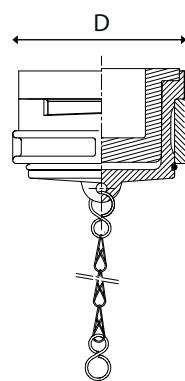
PLUG WITH LOCKING RING

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	MKSTR038050CHEM2
50	2"	50	75,0	40,0	Yes	MKSTR050CHEM2
80	3"	50	112,0	40,0	No	MKSTR050080CHEM2
80	3"	75	102,0	56,0	Yes	MKSTR080CHEM2

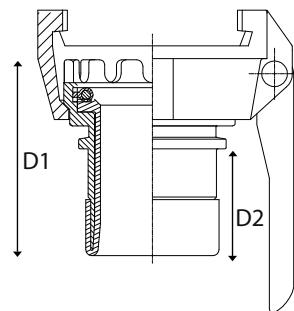
Coupling standard: EN 14420-6 / DIN 28450

Shank standard: EN 14420-2 / DIN 2817

Assembly: RK safety clamps EN 14420-3/ DIN 2817, FLEXOLINE safety clamps (see cat. chapter D)

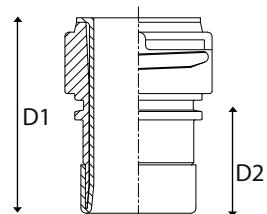
Material seal: closed enveloppe seal PTFE / FPM

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

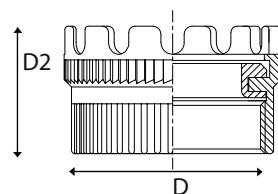
Shank standard: EN 14420-2 / DIN 2817

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	MKV050CHEM2
80	3"	G 3	PTFE	101	52,5	MKV080CHEM2



Coupling standard: EN 14420-6 / DIN 28450

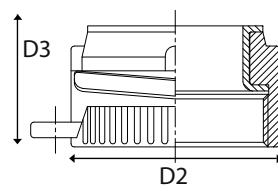
Material seal: closed enveloppe seal PTFE / FPM

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

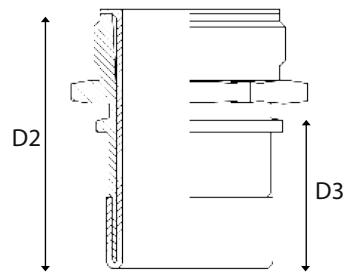
EN 14420-5

A.10

CHEMALINE 2000

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

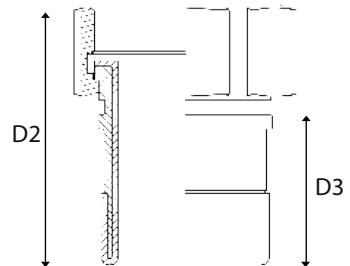
Shank standard: EN 14420-2 / DIN 2817

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)

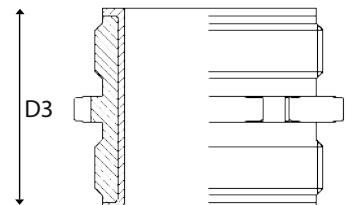
Material coupling: stainless steel AISI 316 / 1.4401

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



CHEMALINE 2000 - Food Couplings

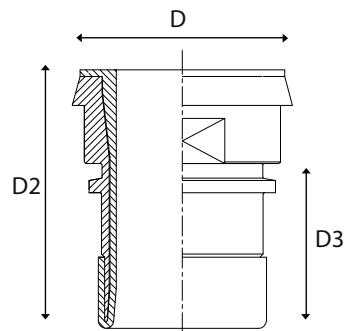
DIN 11851

A.10

CHEMALINE 2000

FEMALE COUPLING WITH SMOOTH HOSE SHANK WITHOUT 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

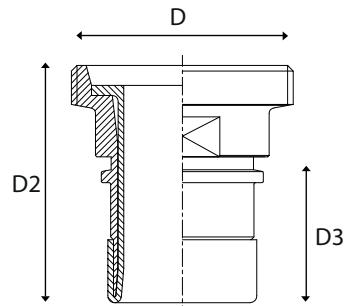
Shank standard: EN 14420-2 / DIN 2817

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 WITHOUT 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

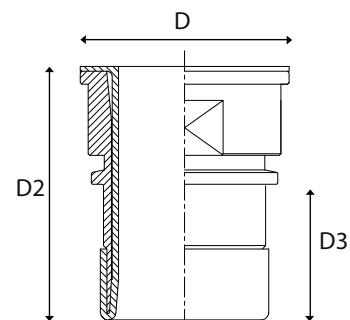
Incorporated seal during the lining process

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

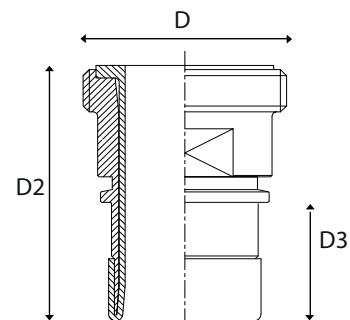
Shank standard: EN 14420-2 / DIN 2817

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

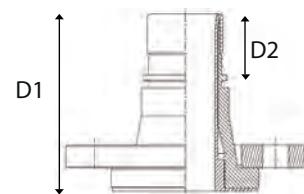
EN 1442-4

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CHEMALINE 2000

SWIVEL FLANGE COUPLING WITH SMOOTH HOSE SHANK

ND	Inch	Flange pressure class	For hose mm	D1	D2	Reference
20	3/4"	EN-DIN PN 25/40	19	90,0	34,0	RRFLG019CHEM2
25	1"	EN-DIN PN 25/40	25	90,0	34,0	RRFLG025CHEM2
32	1.1/4"	EN-DIN PN 25/40	32	90,0	34,0	RRFLG032CHEM2
40	1.1/2"	EN-DIN PN 25/40	38	91,0	33,5	RRFLG038CHEM2
50	2"	EN-DIN PN 10/16	50	107,0	40,0	RRFLG050CHEM2
65	2.1/2"	EN-DIN PN 10/16	63	120,0	52,0	RRFLG063CHEM2
80	3"	EN-DIN PN 10/16	75	129,0	56,0	RRFLG075CHEM2
100	4"	EN-DIN PN 10/16	100	169,0	80,5	RRFLG100CHEM2



Swivel flange: DIN 2673 PN10, DIN 2674 PN16 / EN 1092-1 -04 A

Swivel flange according to ASTM A 182 150/300 lbs on request available

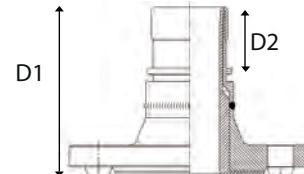
Shank standard: EN 14420-2 / DIN 2817

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-DIN PN 25/40	19	88,0	34,0	RRFVG019CHEM2
25	1"	EN-DIN PN 25/40	25	88,0	34,0	RRFVG025CHEM2
32	1.1/4"	EN-DIN PN 25/40	32	90,0	34,0	RRFVG032CHEM2
40	1.1/2"	EN-DIN PN 25/40	38	93,0	34,0	RRFVG038CHEM2
50	2"	EN-DIN PN 10/16	50	107,0	40,0	RRFVG050CHEM2
65	2.1/2"	EN-DIN PN 10/16	63	120,0	52,0	RRFVG063CHEM2
80	3"	EN-DIN PN 10/16	75	129,0	56,0	RRFVG075CHEM2
100	4"	EN-DIN PN 10/16	100	171,0	80,5	RRFVG100CHEM2



Welding neck flange: DIN 2632 PN10, DIN 2633 PN16; EN 1092-11B

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

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

16 bar / 232 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	<ul style="list-style-type: none">■ Parallel thread■ Pressure tight joint is obtained using a seal or o-ring	<ul style="list-style-type: none">■ 55° degree thread angle■ Truncation of root and crest are round
BSPT	British standard pipe taper thread	EN 10226-1 DIN 2999-1	R1	<ul style="list-style-type: none">■ Conical thread.■ Pressure tight joint is achieved by the thread	<ul style="list-style-type: none">■ 55° degree thread angle■ Truncation of root and crest are round
NPT	National pipe taper thread <small>(American standard pipe thread)</small>	ANSI B 1.20.1	NPT 1	<ul style="list-style-type: none">■ Conical thread■ Pressure tight joint is achieved by the thread	<ul style="list-style-type: none">■ 60° degree round angle■ Truncation of root 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; 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 1/2	PTFE	SS	30	0.14	RRV013019
20	3/4"	19	G 3/4	PTFE	SS	36	0.22	RRV019025
25	1"	25	G 1	PTFE	SS	46	0.38	RRV025032
32	1.1/4"	32	G 1.1/4	PTFE	SS	55	0.46	RRV032038
40	1.1/2"	38	G 1.1/2	PTFE	SS	65	0.62	RRV038050
50	2"	50	G 2	PTFE	SS	85	0.70	RRV050063
65	2.1/2"	63	G 2.1/2	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

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 HELICAL HOSE SHANK FOR COMPOSITE HOSE

ND	Inch	For hose mm	Thread EN ISO 228-1	Material	Weight pc/Kg	Reference
25	1"	25	G 1	Brass	0.20	CM1R025
32	1.1/4"	32	G 1 1/4	Brass	0.38	CM1R032
40	1.1/2"	40	G 1 1/2	Brass	0.52	CM1R040
50	2"	50	G 2	Brass	0.77	CM1R050
65	2.1/2"	65	G 2 1/2	Brass	1.51	CM1R065
80	3"	80	G 3	Brass	1.82	CM1R080
100	4"	100	G 4	Brass	2.15	CM1R100



25	1"	25	G 1	SS	0.19	CR1R025
32	1.1/4"	32	G 1 1/4	SS	0.35	CR1R032
40	1.1/2"	40	G 1 1/2	SS	0.48	CR1R040
50	2"	50	G 2	SS	0.81	CR1R050
65	2.1/2"	65	G 2 1/2	SS	1.26	CR1R065
80	3"	80	G 3	SS	1.56	CR1R080
100	4"	100	G 4	SS	2.11	CR1R100

Male thread EN ISO 228-1, BSP

Assembly: swage ferrules for composite hoses

SS = Stainless steel AISI 316 - 1.4401

Type of hexagon or octagon nut is subject to change without prior notice

Aluminium available on request

FEMALE THREADED WITH HELICAL HOSE SHANK FOR COMPOSITE HOSE

ND	Inch	For hose mm	Thread EN ISO 228-1	Thread seal	Material	Weight pc/Kg	Reference
25	1"	25	G 1	PU	Brass	0.26	CM2R025
32	1.1/4"	32	G 1 1/4	PU	Brass	0.44	CM2R032
40	1.1/2"	40	G 1 1/2	PU	Brass	0.60	CM2R040
50	2"	50	G 2	PU	Brass	0.82	CM2R050
65	2.1/2"	65	G 2 1/2	PU	Brass	1.66	CM2R065
80	3"	80	G 3	PU	Brass	2.20	CM2R080



25	1"	25	G 1	PTFE	SS	0.35	CR2R025
32	1.1/4"	32	G 1 1/4	PTFE	SS	0.59	CR2R032
40	1.1/2"	40	G 1 1/2	PTFE	SS	0.76	CR2R040
50	2"	50	G 2	PTFE	SS	0.96	CR2R050
65	2.1/2"	65	G 2 1/2	PTFE	SS	1.92	CR2R065
80	3"	80	G 3	PTFE	SS	2.51	CR2R080

Female thread EN ISO 228-1, BSP

Assembly: swage ferrules for composite hoses

SS = Stainless steel AISI 316 - 1.4401

Type of screw nut is subject to change without prior notice

Aluminium available on request

SCREW HOSE COUPLINGS

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
25	1"	Stainless steel	27.7	42.0	42.0	0.09	CHR025
32	1.1/4"	Stainless steel	36.0	50.0	42.5	0.11	CHR032
40	1.1/2"	Stainless steel	45.0	57.0	60.0	0.13	CHR040
50	2"	Stainless steel	53.6	65.7	67.0	0.15	CHR050
65	2.1/2"	Stainless steel	68.1	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
40	1.1/2"	Aluminium	45.0	57.0	60.0	0.05	CHA040
50	2"	Aluminium	53.6	65.7	67.0	0.07	CHA050
65	2.1/2"	Aluminium	68.1	83.0	73.0	0.09	CHA065
80	3"	Aluminium	84.6	98.0	76.2	0.14	CHA080

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 +/- 1 mm	Weight/pc kg	Reference
25	1"	NBR	Black	41.5	25.5	0.005	CXN025
32	1.1/4"	NBR	Black	48.0	32.5	0.008	CXN032
40	1.1/2"	NBR	Black	58.0	38.0	0.01	CXN040
50	2"	NBR	Black	65.5	50.0	0.02	CXN050
65	2.1/2"	NBR	Black	84	65.0	0.03	CXN065
80	3"	NBR	Black	100	80.0	0.04	CXN080
100	4"	NBR	Black	112.5	100.0	0.07	CXN100

EPDM / FPM 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 coupling 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

B.2.

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

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
<hr/>				
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



Male thread EN ISO 228-1	Female thread EN ISO 228-1	Material	Weight/pc Kg	Reference
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
G 6	G 5	Aluminium	0.72	AUMF125150



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

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).

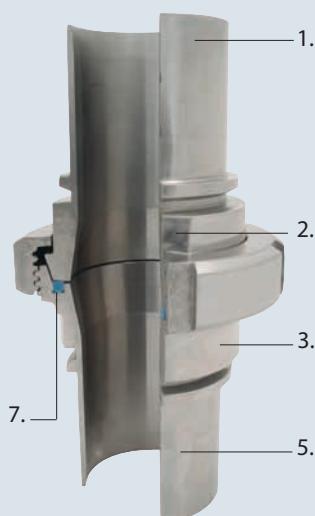
On request aseptic food couplings complying with DIN 11864 are available.

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.

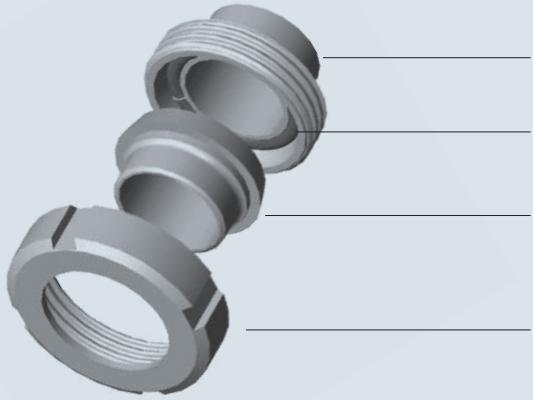
FEATURES



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
4. Low Ra-value of inner surface up to $\leq 1.6 \mu\text{m}$
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	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		

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 \leq 1.6 μm

2. Ra-value outer side \leq 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 - EN 1.4301

Stainless steel AISI 316L - EN 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 - EN 1.4301; Stainless steel AISI 316L - EN 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	86.0	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 - EN 1.4301; Stainless steel AISI 316L - EN 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

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	0.10	DIN220015
20	3/4"	RD 44 x 1/6"	54.0	21.0	0.14	DIN220020
25	1"	RD 52 x 1/6"	63.0	21.0	0.33	DIN220025
32	1.1/4"	RD 58 x 1/6"	70.0	21.0	0.41	DIN220032
40	1.1/2"	RD 65 x 1/6"	78.0	21.0	0.49	DIN220040
50	2"	RD 78 x 1/6"	92.0	22.0	0.71	DIN220050
65	2.1/2"	RD 95 x 1/6"	112.0	25.0	1.24	DIN220065
-	3"	RD 104 x 1/6"	119.0	25.0	1.35	DIN220075*
80	3"	RD 110 x 1/4"	127.0	30.0	1.75	DIN220080
100	4"	RD 130 x 1/4"	148.0	31.0	2.43	DIN220100



Stainless steel AISI 304 - 1.4301
Seal type DIN222... not included
* on request

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	DIN221015
20	3/4"	RD 44 x 1/6"	54.0	21.0	0.23	DIN221020
25	1"	RD 52 x 1/6"	63.0	21.0	0.33	DIN221025
32	1.1/4"	RD 58 x 1/6"	70.0	21.0	0.41	DIN221032
40	1.1/2"	RD 65 x 1/6"	78.0	21.0	0.49	DIN221040
50	2"	RD 78 x 1/6"	92.0	22.0	0.71	DIN221050
65	2.1/2"	RD 95 x 1/6"	112.0	25.0	1.24	DIN221065
-	3"	RD 104 x 1/6"	119.0	25.0	1.20	DIN221075*
80	3"	RD 110 x 1/4"	127.0	30.0	1.75	DIN221080
100	4"	RD 130 x 1/4"	148.0	31.0	2.43	DIN221100



Stainless steel AISI 304 - 1.4301
Seal type DIN222... not included
* on request

FOOD COUPLINGS DIN 11851

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

* on request

CAP SEAL - NBR

ND	Inch	OD Ø mm	Height mm	Weight/pc kg	Reference
15	1/2"	34.0	3.0	0.002	DIN222015
20	3/4"	44.0	3.0	0.003	DIN222020
25	1"	52.0	3.0	0.006	DIN222025
32	1.1/4"	58.0	3.0	0.008	DIN222032
40	1.1/2"	65.0	3.0	0.010	DIN222040
50	2"	78.0	3.0	0.020	DIN222050
65	2.1/2"	95.0	3.0	0.029	DIN222065
-	3"	104.0	3.0	0.035	DIN222075*
80	3"	110.0	3.0	0.044	DIN222080
100	4"	130.0	3.0	0.062	DIN222100



NBR beige standard, other materials on request available

* on request

ACCESSORIES

CHAIN WITH S-HOOK

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



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.

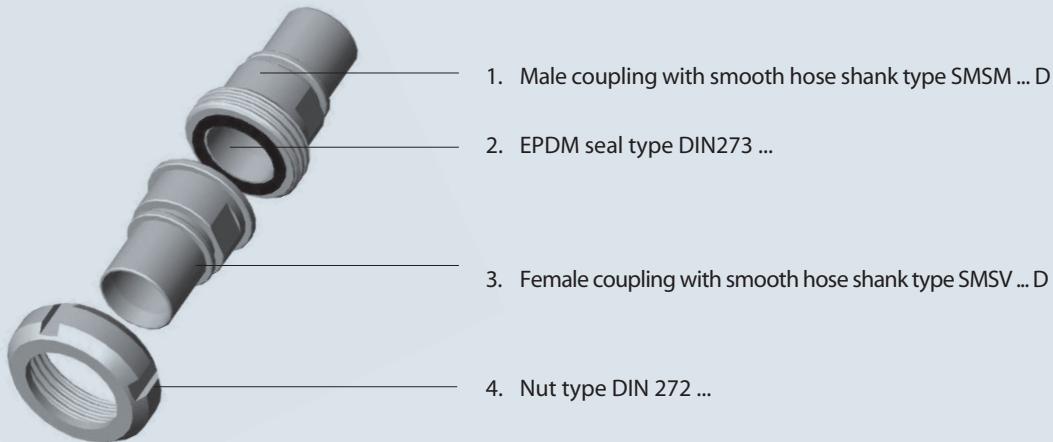
FEATURES



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
4. Low Ra-value of inner surface up to $\leq 1.6 \mu\text{m}$
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



CONNECTION



Food couplings SMS 1145 vs DIN 11851

	SMS 1145	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 complying with DIN 405/1	Rounded thread complying with DIN 405/1		
Max. working pressure	6 bar / 87 psi	40 bar / 580 psi		

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

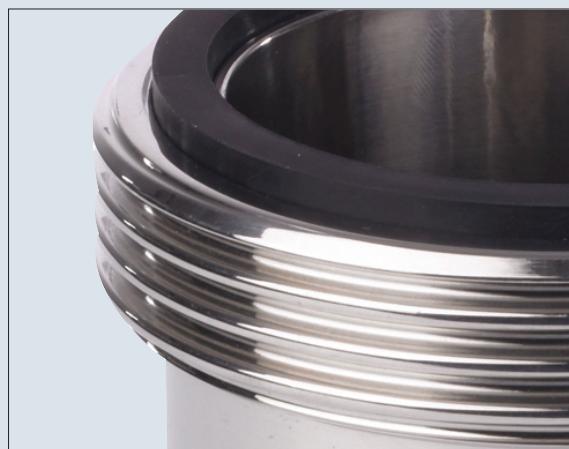
ASSEMBLY

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 $\leq 1.6 \mu\text{m}$
2. Ra-value outer side $\leq 3.2 \mu\text{m}$

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

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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

SQUARE 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