

**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 1/2", 5" and 8" cam & groove couplings, due to the presence of two versions of cam & groove couplings in today's market.

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

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

**■ EN 14420-7**

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

Cam & groove couplings produced to EN 14420-7 are interchangeable with those produced to the original MIL-C-27487 standard, but differ in terms of hose tail design, thread, part number etc. A flat thread seal has been added to the female threaded parts, and a smooth hose shank complying with EN 14420-2 / 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 EN14420-3/ DIN 2817 has been added for assembly with RK safety clamps complying with EN 14420-3/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 are manufactured by investment casting.
2. Holes for safety pin inserts
3. Earthing lug
4. Reinforced coupling section for increased mechanical strength
5. Long hose shank to ensure secure fixing
6. Marked with cam & groove type
7. Marked with diameter
8. Marked with standard compliance: MS (Military Specification) or DIN/EN (Deutsche Industrienorm)
9. Marked with material identification: stainless steel, brass, bronze, aluminium, polypropylene
10. Seals are available in NBR (standard), EPDM (standard for polypropylene), PTFE, CSM, FPM, FEP/Silicone, PTFE/EPDM and PTFE/FPM
11. Safety couplers are available with monoblock safety body
12. Coupling insurance by brand name LMC-Couplings®

## APPLICATION

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

**WORKING PRESSURE**

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

**TEMPERATURE RANGE**

The working pressures shown above refer to ambient temperatures using elastomer seals. Higher temperatures and / or PTFE seals will reduce the rated coupling pressure. In the case of polypropylene, the maximum working temperature is 70°C / 160°F, at which temperature the working pressures shown above should be reduced by 40%.

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

**MATERIAL**■ **Coupling**

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

Stainless steel: AISI 316 - EN 1.4401

Brass: C85700

Bronze: C84400

Aluminium: 380

Polypropylene: LMC's polypropylene cam & groove couplings contain 25-30% fibreglass reinforcements

**Production method**

All sizes of brass and bronze cam & groove couplings are shell-moulded or sand cast.

The type of aluminium is a sand cast 713-T5 alloy, which can be anodised if required.

Stainless steel couplings are investment-cast in a range of common sizes and are electro-polished for clean applications.

The stainless steel quality for cam & groove couplings is standard AISI 316-EN 1.4401.

Polypropylene couplings are made from polypropylene reinforced with 25%-30% acid-resistant fibreglass.

## Materials and sizes

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

- Available
- Not available

## Material

### ■ Seal

#### Standard seal

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



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

#### Closed seal

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



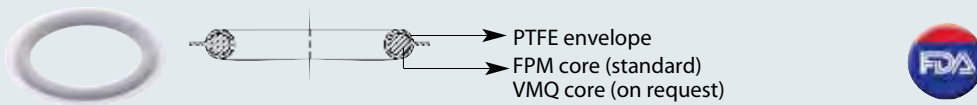
#### Open envelope seal

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



## Closed envelope seal

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



## Thread seal

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



## Properties seals

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

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

## ASSEMBLY

Worm drive clamps

RK safety clamps to EN14420-3 / DIN 2817

RKP safety clamps to EN14420-3 / DIN 2817

FLEXOLINE® safety clamps

Welding: butt welding and socket welding (see pg. A.1.27)

## THREADS

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

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

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

THREAD	DESCRIPTION	STANDARD	TYPICAL CALL OUT	SEALING METHOD	PROPERTIES
<b>BSP</b>	British standard pipe	EN ISO 228-1 DIN ISO 228-1	G1	<ul style="list-style-type: none"> <li>■ Parallel thread</li> <li>■ Pressure tight joint is obtained with a seal or o-ring</li> </ul>	<ul style="list-style-type: none"> <li>■ 55° degree thread angle</li> <li>■ Truncation of rood and crest are round</li> <li>■ Diameter measured in inches</li> </ul>
<b>BSPT</b>	British standard pipe taper	EN 10226-1 DIN 2999-1	R1	<ul style="list-style-type: none"> <li>■ Conical thread.</li> <li>■ Pressure tight joint is achieved by the thread</li> </ul>	<ul style="list-style-type: none"> <li>■ 55° degree thread angle</li> <li>■ Truncation of rood and crest are round</li> </ul>
<b>BSPP</b>	British standard pipe parallel		G 1(cyl)	<ul style="list-style-type: none"> <li>■ Cylindrical thread</li> <li>■ Truncation of rood and crest are round</li> </ul>	<ul style="list-style-type: none"> <li>■ 55° degree thread angle</li> </ul>
<b>NPT</b>	National pipe taper <small>(American standard pipe thread)</small>	ANSI B 1.20.1	NPT 1	<ul style="list-style-type: none"> <li>■ Conical thread</li> <li>■ Pressure tight joint is achieved by the thread</li> </ul>	<ul style="list-style-type: none"> <li>■ 60° degree round angle</li> <li>■ Truncation of rood and crest are flat</li> </ul>

## Cam & groove threads

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

## TESTING

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

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

### ■ Adaptor and coupler dimensions

High-technology measuring equipment

High-technology measuring tools are used to measure the specific dimensions of cam & groove couplings to ensure compliance with the dimensions required under the Federal Mil A-A-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

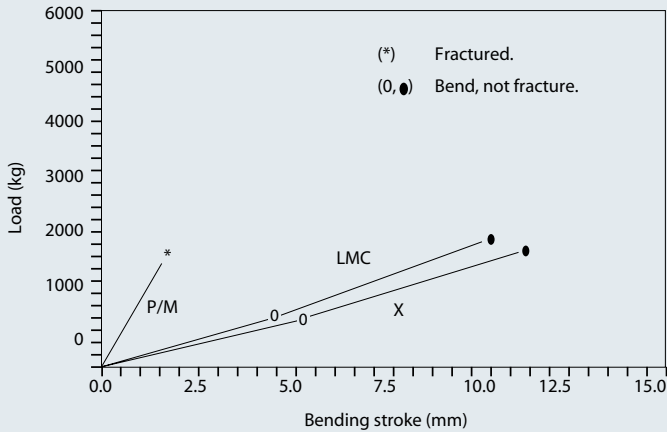
An in-house spectroscope is used to identify the materials used in the cam & groove couplings. The spectroscope analyses the precise quantity of all materials of the coupling.

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 1600 Kg, LMC handles do not even start to bend until subjected to a load of 1000 Kg. Even when subjected to a load of 2400 Kg, LMC cam & groove handles still show no sign of fracture.



Bend investment cast LMC handle



Fractured sintered handle

## ■ Seal properties

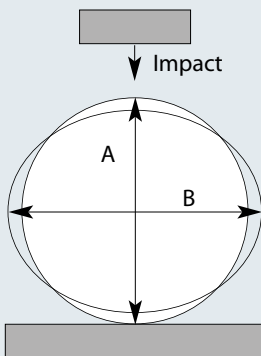
After chemical structure, seal compression set has the next most significant effect on the seal of cam & groove couplings. A seal of correct hardness will ensure that the cam & groove coupling is sealed properly and safely. Cam & groove seal hardness is tested using a durometer.

## ■ Thread dimensions

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

## ■ Impact resistance

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



Drop weight impact on bowl of coupler

Original ID: A  
ID after impact: B

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

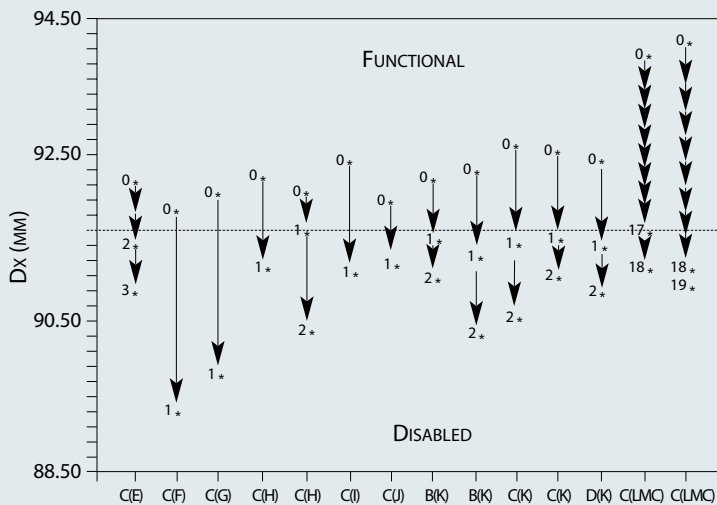
Size 3"													
Type	C	C	C	C	C	C	C	B	B	C	C	D	C
Brand	E	F	G	H	H	I	J	K	K	K	K	K	LMC
<b>Original ID A</b>	92.14	91.72	91.98	92.21	92.01	92.53	91.98	92.24	92.42	92.74	92.58	92.15	93.54
1	91.75	89.43	89.86	91.06	91.67	90.98	91.16	91.43	91.12	91.48	91.59	91.31	93.17
2	91.38	88.65		90.57	90.54	90.08	89.57	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												89.49	91.89
8												89.44	91.87
9												89.33	91.79
10													91.77
11													91.76
12													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.

Four brands of adaptor were unable to fit the corresponding coupler following a single impact from a 2.3 kg / 5 lbs weight dropped from a height of 1.5 metres / 5 feet. However, it took 18 such impacts before LMC-Couplings couplers were unable to fit their adaptors. The average number of impacts required before fractures became 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
- **ECTFE (up to 1000μ)**  
ECTFE (Ethylene chlorotrifluoroethylene) coatings are designed to resist highly-concentrated and aggressive chemicals. Couplings with an ECTFE-coating show excellent electric isolating and fire properties and resist to temperatures up to 150°C / 300°F.
- **PFA (up to 200μ)**  
The key quality of a PFA (Perfluoroalkoxy) coating is the temperature resistance up to 260°C / 500°F. Their effective anti-adhesive layer makes PFA coatings particularly well-suited to food and pharmaceutical industry applications.
- **PTFE (up to 40μ)**  
PTFE (Poly tetrafluoroethylene) coatings are only 40μ thick. PTFE-coated couplings can withstand temperatures up to 290°C / 550°F. Like PFA-coated couplings, PTFE couplings have excellent anti-adhesive qualities and are suitable for food industry applications.
- **PVDF (up to 800μ)**  
Like ECTFE coatings, PVDF (Polyvinylidene fluoride) coatings can resist highly-concentrated and aggressive chemicals, but with the added advantage of high temperature resistance. These couplings are wear-proof and also suitable for food industry applications.

### PTFE liner

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



## ACCESSORIES

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

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.

\* With exception of 8"



1



2



3

## Handle types

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

■ available













- not available

8" aluminium with 4 handles

4" polypropylene with 3 handles

## CROSS REFERENCES

### Cam & groove couplings

COUPLING	TYPE	DESCRIPTION	EN REFERENCE	COMMON USED REF.
	A	Adapter, female threaded Federal Mil	-	633-ABS
	AF	Adapter, female threaded EN 14420-7 / DIN 2828 with thread seal	AF	633-ABSF
	B	Coupler, male threaded EN 14420-7 / Federal Mil	BF	633-BB
	C	Coupler, with serrated hose shank Federal Mil	-	633-C
	CC	Coupler, with hose shank EN 14420-7 / DIN 2828	CC	633-CC
	D	Coupler, female threaded Federal Mil	-	633-DBS
	DF	Coupler, female threaded EN 14420-7 / DIN 2828 with thread seal	DF	633-DBSF
	E	Adapter, with serrated hose shank Federal Mil	-	633-E
	EC	Adapter, with smooth hose shank EN 14420-7 / DIN 2828	EC	633-EC
	F	Adapter, male threaded Federal Mil / EN 14420-7	FF	633-FB
	K	Female dust cap Federal Mil / EN 14420-7	DC	634-B
	P	Male dust plug Federal Mil / EN 14420-7	DP	634-A

Cam & groove coupling ←



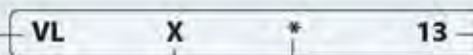
**Material**  
 A: Aluminium  
 B: Bronze  
 M: Brass  
 P: Polypropylene  
 R: Stainless steel

Size

-: 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  
 SAF: Saflok version  
 SAFBO: Saflok Bleed off version

### Cam & groove seals

Cam & groove coupling ←

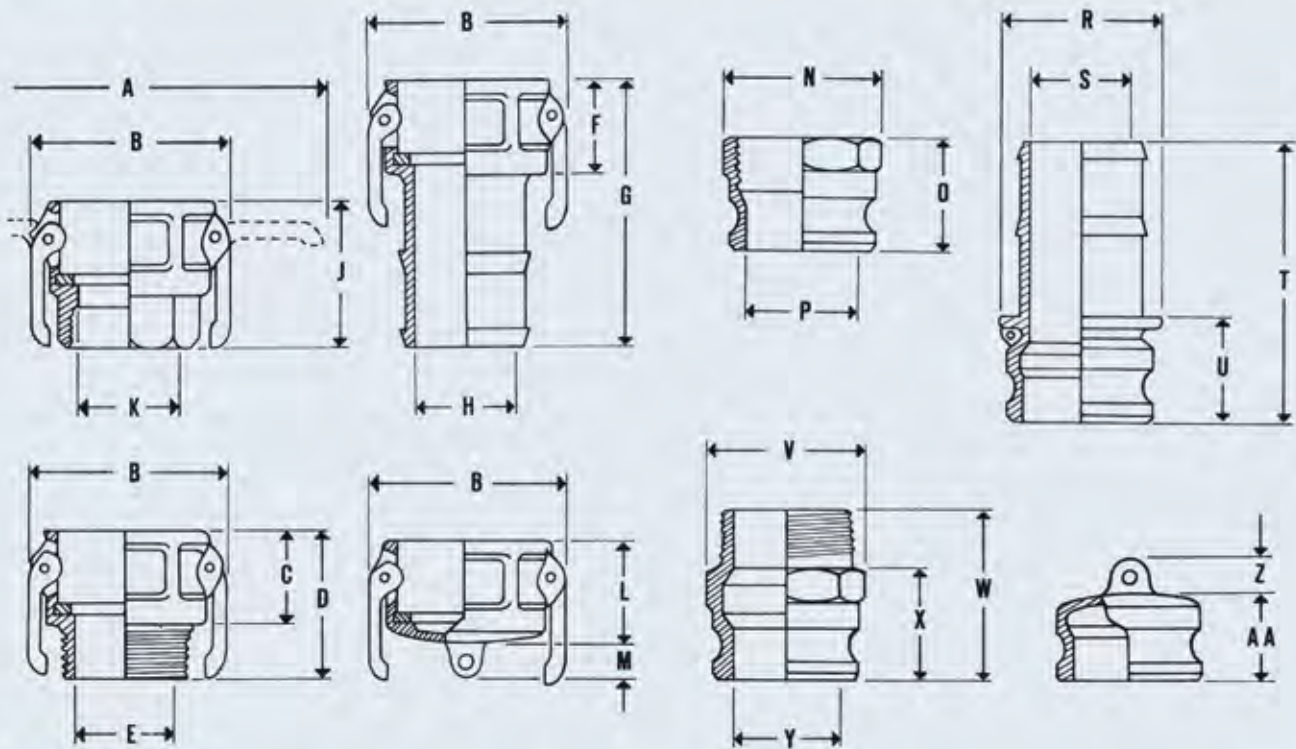


Seal ←

Size →

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

## DIMENSIONS



## ALUMINIUM

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

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

Dimensions in mm and are given as illustration only.

## POLYPROPYLENE

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

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

## STAINLESS STEEL

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

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

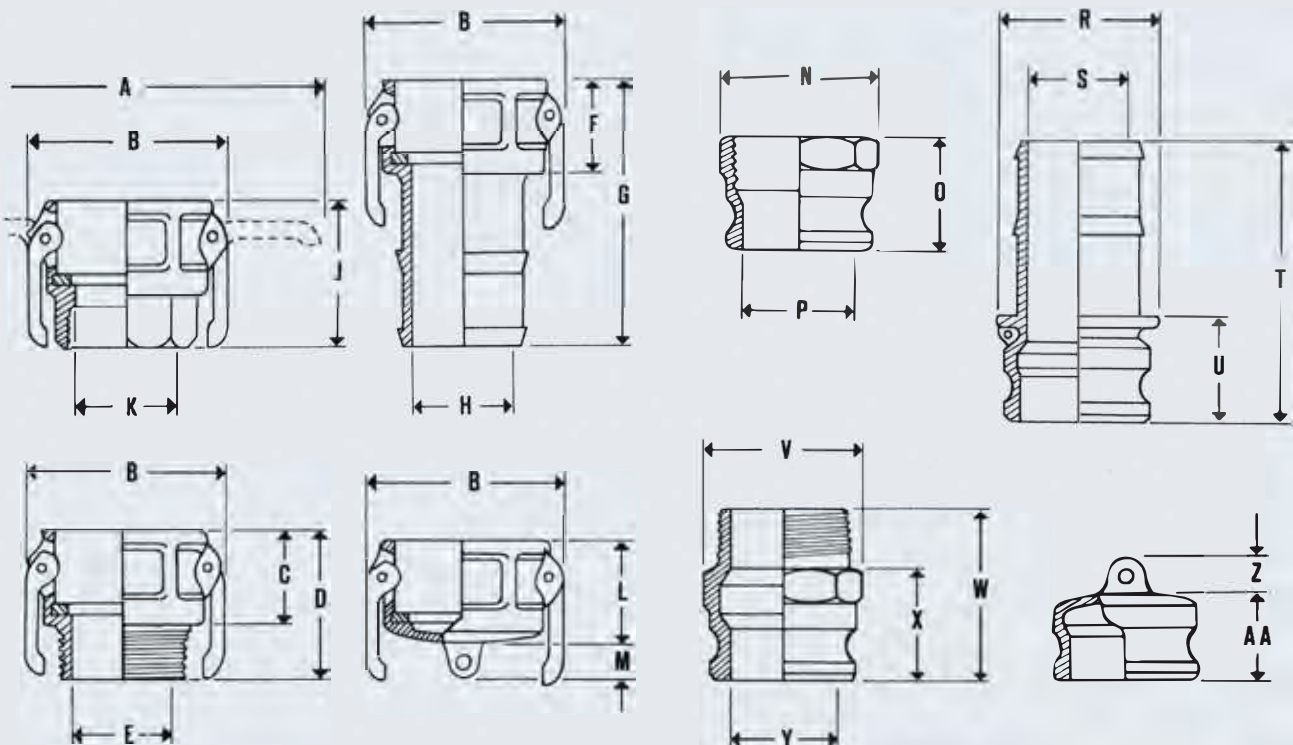


## BRASS

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

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

## DIMENSIONS



# CAM & GROOVE COUPLINGS



## TYPE A: ADAPTOR FEMALE THREADED

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



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



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



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



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



Coupling standard: Federal Mil A-A-59326A

Female thread: EN ISO 228-1, BSP

ANSI B 1.20.1, NPT on request

Stainless steel: AISI 316 - EN 1.4401



## CAM &amp; GROOVE COUPLINGS



## TYPE B: COUPLER MALE THREADED

ND	Inch	Thread EN 10226-1	Material	Coupler seal	Handles	Weight/pc Kg	Reference
15	1/2"	R 1/2	Aluminium	NBR	2	0.07	VLBA013
20	3/4"	R 3/4	Aluminium	NBR	2	0.10	VLBA019
25	1"	R 1	Aluminium	NBR	2	0.16	VLBA025
32	1.1/4"	R 1.1/4	Aluminium	NBR	2	0.27	VLBA032
40	1.1/2"	R 1.1/2	Aluminium	NBR	2	0.30	VLBA038
50	2"	R 2	Aluminium	NBR	2	0.35	VLBA050
65	2.1/2"	R 2.1/2	Aluminium	NBR	2	0.43	VLBA063
80	3"	R 3	Aluminium	NBR	2	0.68	VLBA075
100	4"	R 4	Aluminium	NBR	2	0.92	VLBA100
125	5"	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	2	0.12	VLBR013
20	3/4"	R 3/4	Stainless steel	NBR	2	0.20	VLBR019
25	1"	R 1	Stainless steel	NBR	2	0.29	VLBR025
32	1.1/4"	R 1.1/4	Stainless steel	NBR	2	0.47	VLBR032
40	1.1/2"	R 1.1/2	Stainless steel	NBR	2	0.54	VLBR038
50	2"	R 2	Stainless steel	NBR	2	0.67	VLBR050
65	2.1/2"	R 2.1/2	Stainless steel	NBR	2	1.14	VLBR063
80	3"	R 3	Stainless steel	NBR	2	1.35	VLBR075
100	4"	R 4	Stainless steel	NBR	2	1.97	VLBR100
125	5"	R 5	Stainless steel	NBR	2	2.98	VLBR125
150	6"	R 6	Stainless steel	NBR	2	4.11	VLBR150
200	8"	G 8	Stainless steel	NBR	4	2.60	VLBR 200



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



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



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



Coupling standard: Federal Mil A-A-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 - EN 1.4401

# CAM & GROOVE COUPLINGS



## TYPE C: COUPLER WITH SERRATED HOSE SHANK

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



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



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



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



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



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



## TYPE D: COUPLER FEMALE THREADED

ND	Inch	Thread EN ISO 228-1	Material	Coupler seal	Handles	Weight/pc Kg	Reference
15	1/2"	G 1/2	Aluminium	NBR	2	0.06	VLDA013
20	3/4"	G 3/4	Aluminium	NBR	2	0.12	VLDA019
25	1"	G 1	Aluminium	NBR	2	0.16	VLDA025
32	1.1/4"	G 1.1/4	Aluminium	NBR	2	0.28	VLDA032
40	1.1/2"	G 1.1/2	Aluminium	NBR	2	0.32	VLDA038
50	2"	G 2	Aluminium	NBR	2	0.36	VLDA050
65	2.1/2"	G 2.1/2	Aluminium	NBR	2	0.47	VLDA063
80	3"	G 3	Aluminium	NBR	2	0.73	VLDA075
100	4"	G 4	Aluminium	NBR	2	1.21	VLDA100
125	5"	G 5	Aluminium	NBR	2	1.40	VLDA125
150	6"	G 6	Aluminium	NBR	2	2.16	VLDA150
200	8"	G 8	Aluminium	NBR	4	2.60	VLDA200



15	1/2"	G 1/2	Stainless steel	NBR	2	0.13	VLDR013
20	3/4"	G 3/4	Stainless steel	NBR	2	0.23	VLDR019
25	1"	G 1	Stainless steel	NBR	2	0.31	VLDR025
32	1.1/4"	G 1.1/4	Stainless steel	NBR	2	0.49	VLDR032
40	1.1/2"	G 1.1/2	Stainless steel	NBR	2	0.55	VLDR038
50	2"	G 2	Stainless steel	NBR	2	0.70	VLDR050
65	2.1/2"	G 2.1/2	Stainless steel	NBR	2	1.00	VLDR063
80	3"	G 3	Stainless steel	NBR	2	1.30	VLDR075
100	4"	G 4	Stainless steel	NBR	2	2.14	VLDR100
125	5"	G 5	Stainless steel	NBR	2	3.54	VLDR125
150	6"	G 6	Stainless steel	NBR	2	4.61	VLDR150
200	8"	G 8	Stainless steel	NBR	4	2.60	VLDR200



15	1/2"	G 1/2	Brass	NBR	2	0.16	VLDM013
20	3/4"	G 3/4	Brass	NBR	2	0.22	VLDM019
25	1"	G 1	Brass	NBR	2	0.32	VLDM025
32	1.1/4"	G 1.1/4	Brass	NBR	2	0.46	VLDM032
40	1.1/2"	G 1.1/2	Brass	NBR	2	0.54	VLDM038
50	2"	G 2	Brass	NBR	2	0.67	VLDM050
65	2.1/2"	G 2.1/2	Brass	NBR	2	0.94	VLDM063
80	3"	G 3	Brass	NBR	2	1.40	VLDM075
100	4"	G 4	Brass	NBR	2	2.09	VLDM100
125	5"	G 5	Brass	NBR	2	2.58	VLDM125
150	6"	G 6	Brass	NBR	2	5.02	VLDM150



20	3/4"	G 3/4	Bronze	NBR	2	0.23	VLDB019
25	1"	G 1	Bronze	NBR	2	0.35	VLDB025
32	1.1/4"	G 1.1/4	Bronze	NBR	2	0.50	VLDB032
40	1.1/2"	G 1.1/2	Bronze	NBR	2	0.66	VLDB038
50	2"	G 2	Bronze	NBR	2	0.78	VLDB050
65	2.1/2"	G 2.1/2	Bronze	NBR	2	0.95	VLDB063
80	3"	G 3	Bronze	NBR	2	1.63	VLDB075
100	4"	G 4	Bronze	NBR	2	2.42	VLDB100



15	1/2"	G 1/2	Polypropylene	EPDM	2	0.07	VLDP013
20	3/4"	G 3/4	Polypropylene	EPDM	2	0.08	VLDP019
25	1"	G 1	Polypropylene	EPDM	2	0.13	VLDP025
32	1.1/4"	G 1.1/4	Polypropylene	EPDM	2	0.21	VLDP032
40	1.1/2"	G 1.1/2	Polypropylene	EPDM	2	0.23	VLDP038
50	2"	G 2	Polypropylene	EPDM	2	0.27	VLDP050
80	3"	G 3	Polypropylene	EPDM	2	0.50	VLDP075
100	4"	G 4	Polypropylene	EPDM	3	0.75	VLDP100



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

# CAM & GROOVE COUPLINGS



## TYPE E: ADAPTOR WITH SERRATED HOSE SHANK

ND	Inch	For hose mm	Collar	Material	Weight/pc Kg	Reference
15	1/2"	13	-	Aluminium	0.03	VLEA013
20	3/4"	19	x	Aluminium	0.05	VLEA019
25	1"	25	x	Aluminium	0.09	VLEA025
32	1.1/4"	32	x	Aluminium	0.12	VLEA032
40	1.1/2"	38	x	Aluminium	0.19	VLEA038
50	2"	50	x	Aluminium	0.28	VLEA050
65	2.1/2"	63	x	Aluminium	0.45	VLEA063
80	3"	75	x	Aluminium	0.66	VLEA075
100	4"	100	x	Aluminium	1.13	VLEA100
125	5"	125	x	Aluminium	1.48	VLEA125
150	6"	150	x	Aluminium	2.20	VLEA150
200	8"	200	-	Aluminium	3.60	VLEA200

15	1/2"	13	x	Stainless steel	0.07	VLER013
20	3/4"	19	x	Stainless steel	0.14	VLER019
25	1"	25	x	Stainless steel	0.25	VLER025
32	1.1/4"	32	x	Stainless steel	0.37	VLER032
40	1.1/2"	38	x	Stainless steel	0.56	VLER038
50	2"	50	x	Stainless steel	0.85	VLER050
65	2.1/2"	63	x	Stainless steel	1.17	VLER063
80	3"	75	x	Stainless steel	1.73	VLER075
100	4"	100	x	Stainless steel	2.85	VLER100
125	5"	125	x	Stainless steel	4.05	VLER125
150	6"	150	x	Stainless steel	5.64	VLER150
200	8"	200	-	Stainless steel	10.10	VLER200

15	1/2"	13	-	Brass	0.11	VLEM013
20	3/4"	19	x	Brass	0.16	VLEM019
25	1"	25	x	Brass	0.24	VLEM025
32	1.1/4"	32	x	Brass	0.33	VLEM032
40	1.1/2"	38	x	Brass	0.44	VLEM038
50	2"	50	x	Brass	0.73	VLEM050
65	2.1/2"	63	x	Brass	0.96	VLEM063
80	3"	75	x	Brass	1.25	VLEM075
100	4"	100	x	Brass	1.91	VLEM100
125	5"	125	x	Brass	4.54	VLEM125
150	6"	150	x	Brass	5.07	VLEM150

20	3/4"	19	x	Bronze	0.18	VLEB019
25	1"	25	x	Bronze	0.29	VLEB025
32	1.1/4"	32	x	Bronze	0.40	VLEB032
40	1.1/2"	38	x	Bronze	0.56	VLEB038
50	2"	50	x	Bronze	0.80	VLEB050
65	2.1/2"	63	x	Bronze	1.12	VLEB063
80	3"	75	x	Bronze	1.67	VLEB075
100	4"	100	x	Bronze	1.96	VLEB100

15	1/2"	13	x	Polypropylene	0.01	VLEP013
20	3/4"	19	x	Polypropylene	0.03	VLEP019
25	1"	25	x	Polypropylene	0.04	VLEP025
32	1.1/4"	32	x	Polypropylene	0.07	VLEP032
40	1.1/2"	38	x	Polypropylene	0.09	VLEP038
50	2"	50	x	Polypropylene	0.15	VLEP050
80	3"	75	x	Polypropylene	0.35	VLEP075
100	4"	100	x	Polypropylene	0.55	VLEP100



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



## CAM &amp; GROOVE COUPLINGS



## TYPE F: ADAPTOR MALE THREADED

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



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



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



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



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



Coupling standard: Federal Mil A-A-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 - EN 1.4401

# CAM & GROOVE COUPLINGS



## TYPE DC: FEMALE DUST CAP

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



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



## CAM &amp; GROOVE COUPLINGS



## TYPE DP: MALE DUST PLUG

ND	inch	Material	Weight/pc Kg	Reference
15	1/2"	Aluminium	0.02	VLPA013
20	3/4"	Aluminium	0.03	VLPA019
25	1"	Aluminium	0.05	VLPA025
32	1.1/4"	Aluminium	0.07	VLPA032
40	1.1/2"	Aluminium	0.12	VLPA038
50	2"	Aluminium	0.16	VLPA050
65	2.1/2"	Aluminium	0.22	VLPA063
80	3"	Aluminium	0.28	VLPA075
100	4"	Aluminium	0.50	VLPA100
125	5"	Aluminium	0.55	VLPA125
150	6"	Aluminium	0.74	VLPA150
15	1/2"	Stainless steel	0.06	VLPR013
20	3/4"	Stainless steel	0.08	VLPR019
25	1"	Stainless steel	0.13	VLPR025
32	1.1/4"	Stainless steel	0.25	VLPR032
40	1.1/2"	Stainless steel	0.32	VLPR038
50	2"	Stainless steel	0.46	VLPR050
65	2.1/2"	Stainless steel	0.67	VLPR063
80	3"	Stainless steel	0.93	VLPR075
100	4"	Stainless steel	1.59	VLPR100
125	5"	Stainless steel	1.90	VLPR125
150	6"	Stainless steel	3.84	VLPR150
150	8"	Stainless steel	5.00	VLPR200
15	1/2"	Brass	0.07	VLPM013
20	3/4"	Brass	0.09	VLPM019
25	1"	Brass	0.13	VLPM025
32	1.1/4"	Brass	0.20	VLPM032
40	1.1/2"	Brass	0.24	VLPM038
50	2"	Brass	0.40	VLPM050
65	2.1/2"	Brass	0.59	VLPM063
80	3"	Brass	0.72	VLPM075
100	4"	Brass	1.03	VLPM100
125	5"	Brass	1.60	VLPM125
150	6"	Brass	1.80	VLPM150
20	3/4"	Bronze	0.10	VLPB019
25	1"	Bronze	0.15	VLPB025
32	1.1/4"	Bronze	0.24	VLPB032
40	1.1/2"	Bronze	0.32	VLPB038
50	2"	Bronze	0.47	VLPB050
65	2.1/2"	Bronze	0.60	VLPB063
80	3"	Bronze	0.90	VLPB075
100	4"	Bronze	1.42	VLPB100
15	1/2"	Polypropylene	0.01	VLPP013
20	3/4"	Polypropylene	0.02	VLPP019
25	1"	Polypropylene	0.02	VLPP025
32	1.1/4"	Polypropylene	0.04	VLPP032
40	1.1/2"	Polypropylene	0.05	VLPP038
50	2"	Polypropylene	0.08	VLPP050
80	3"	Polypropylene	0.22	VLPP075
100	4"	Polypropylene	0.26	VLPP100



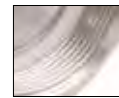
Coupling standard: Federal Mil A-A-5932A / EN 14420-7 / DIN 2828  
Stainless steel: AISI 316 - EN 1.4401

## CAM &amp; GROOVE COUPLINGS EN 14420-7 / DIN 2828



## TYPE AF: ADAPTOR FEMALE THREADED WITH THREAD SEAL

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



Thread seal

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

## TYPE EC: ADAPTOR WITH SMOOTH HOSE SHANK

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

Smooth hose shank  
and collar

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

## CAM &amp; GROOVE COUPLINGS EN 14420-7 / DIN 2828



## TYPE DF: COUPLER FEMALE THREADED WITH THREAD SEAL

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



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



Thread seal

## TYPE CC: COUPLER WITH SMOOTH HOSE SHANK

ND	Inch	For hose mm	Coupler seal	Material	Weight/pc Kg	Reference
20	3/4"	19	NBR	Stainless steel	0.24	VLCR019D
25	1"	25	NBR	Stainless steel	0.35	VLCR025D
32	1.1/4"	32	NBR	Stainless steel	0.59	VLCR032D
40	1.1/2"	38	NBR	Stainless steel	0.68	VLCR038D
50	2"	50	NBR	Stainless steel	0.90	VLCR050D
65	2.1/2"	63	NBR	Stainless steel	1.24	VLCR063D
80	3"	75	NBR	Stainless steel	1.57	VLCR075D
100	4"	100	NBR	Stainless steel	2.59	VLCR100D
20	3/4"	19	NBR	Brass	0.25	VLCM019D
25	1"	25	NBR	Brass	0.38	VLCM025D
32	1.1/4"	32	NBR	Brass	0.63	VLCM032D
40	1.1/2"	38	NBR	Brass	0.69	VLCM038D
50	2"	50	NBR	Brass	0.91	VLCM050D
65	2.1/2"	63	NBR	Brass	1.18	VLCM063D
80	3"	75	NBR	Brass	1.57	VLCM075D
100	4"	100	NBR	Brass	2.71	VLCM100D



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

Smooth hose shank  
and collar

## CAM &amp; 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 - EN 1.4401



## TYPE B: COUPLER MALE THREADED WITH SAFETY HANDLES

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

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



## TYPE C: COUPLER WITH SERRATED HOSE SHANK AND SAFETY HANDLES

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

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



## CAM &amp; GROOVE SAFETY COUPLINGS



## TYPE CC: COUPLER WITH SMOOTH HOSE SHANK AND SAFETY HANDLES

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

Coupling standard: EN 14420-7 / DIN 2828

Shank standard: EN 14420-2 / DIN 2828

Assembly: RK safety clamps EN 14420-3 / DIN 2817, FLEXOLINE® safety clamps (see chapter E)

Version: monoblock safety body

Stainless steel: AISI 316 - EN 1.4401



## TYPE DC: FEMALE DUST CAP WITH SAFETY HANDLES

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

Coupling standard: Federal Mil A-A-59326A / EN 14420-7 / DIN 2828

Standard chain access

Version: monoblock safety body

Stainless steel: AISI 316 - EN 1.4401



## SAFETY REBUILDING SET

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

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

Pull ring stainless steel AISI 304 - EN 1.4301

Safety pin stainless steel AISI 304 - EN 1.4301

Safety hook stainless steel AISI 304 - EN 1.4301



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° welding end. During the welding process, the butt weld cam & groove coupling is connected to a hose, pipe or coupling by the application of heat and pressure.

### 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.

### Welding dimensions

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

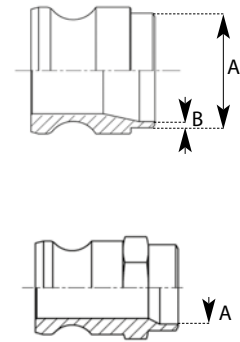
ND	INCH	A mm	B mm
15	1/2"	21.34	2.0
20	3/4"	26.67	2.3
25	1"	33.40	2.6
32	1.1/4"	42.16	2.6
40	1.1/2"	48.26	2.6
50	2"	60.33	2.9
65	2.1/2"	76.03	2.9
80	3"	88.90	3.2
100	4"	114.30	3.6
125	5"	139.70	4.0
150	6"	168.28	4.5



Butt weld connection



Socket weld connection



### TYPE AWB: ADAPTOR WITH BUTT WELD CONNECTION

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



30°

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



## CAM & GROOVE WELDING COUPLINGS

### TYPE DWB: COUPLER WITH BUTT WELD CONNECTION

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



30°

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

### 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



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



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

## CAM &amp; GROOVE FLANGE T.11B COUPLINGS



## TYPE AF: ADAPTOR WITH FIXED FLANGE IN COMPLIANCE WITH DIN

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	EN1092-1 - PN 40	92.0	0.82	VLAHDR013
20	3/4"	Stainless steel	EN1092-1 - PN 40	95.0	1.22	VLAHDR019
25	1"	Stainless steel	EN1092-1 - PN 40	105.0	1.35	VLAHDR025
32	1.1/4"	Stainless steel	EN1092-1 - PN 40	114.0	2.05	VLAHDR032
40	1.1/2"	Stainless steel	EN1092-1 - PN 40	119.0	2.45	VLAHDR038
50	2"	Stainless steel	EN1092-1 - PN 40	129.0	3.29	VLAHDR050
65	2.1/2"	Stainless steel	EN1092-1 - PN 40	133.0	3.85	VLAHDR063
80	3"	Stainless steel	EN1092-1 - PN 40	144.0	4.80	VLAHDR075
100	4"	Stainless steel	EN1092-1 - PN 40	155.0	7.21	VLAHDR100
125	5"	Stainless steel	EN1092-1 - PN 40	160.0	9.82	VLAHDR125
150	6"	Stainless steel	EN1092-1 - PN 40	162.0	13.86	VLAHDR150



Coupling standard: Federal Mil A-A-59326A

Flange standard: EN 1092 - 1, type 11

Stainless steel: AISI 316 - EN 1.4401

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

## TYPE 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	VLAFR013
20	3/4"	Stainless steel	ASTM - ASA 150 lbs	113.0	0.96	VLAFR019
25	1"	Stainless steel	ASTM - ASA 150 lbs	123.0	1.36	VLAFR025
32	1.1/4"	Stainless steel	ASTM - ASA 150 lbs	131.0	1.91	VLAFR032
40	1.1/2"	Stainless steel	ASTM - ASA 150 lbs	139.0	2.33	VLAFR038
50	2"	Stainless steel	ASTM - ASA 150 lbs	148.0	3.39	VLAFR050
65	2.1/2"	Stainless steel	ASTM - ASA 150 lbs	158.0	5.36	VLAFR063
80	3"	Stainless steel	ASTM - ASA 150 lbs	164.0	6.58	VLAFR075
100	4"	Stainless steel	ASTM - ASA 150 lbs	180.0	9.54	VLAFR100
125	5"	Stainless steel	ASTM - ASA 150 lbs	194.0	12.72	VLAFR125
150	6"	Stainless steel	ASTM - ASA 150 lbs	196.0	16.14	VLAFR150



Coupling standard: Federal Mil A-A-59326A

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

Stainless steel: AISI 316 - EN 1.4401

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

## CAM &amp; GROOVE FLANGE T.11B COUPLINGS



## TYPE DF: COUPLER WITH FIXED FLANGE IN COMPLIANCE WITH DIN

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	EN1092-1 - PN 40	81.0	0.92	VLDFDR013
20	3/4"	Stainless steel	EN1092-1 - PN 40	90.0	1.16	VLDFDR019
25	1"	Stainless steel	EN1092-1 - PN 40	96.0	1.39	VLDFDR025
32	1.1/4"	Stainless steel	EN1092-1 - PN 40	111.0	2.34	VLDFDR032
40	1.1/2"	Stainless steel	EN1092-1 - PN 40	115.0	2.54	VLDFDR038
50	2"	Stainless steel	EN1092-1 - PN 40	122.0	3.49	VLDFDR050
65	2.1/2"	Stainless steel	EN1092-1 - PN 40	125.0	5.44	VLDFDR063
80	3"	Stainless steel	EN1092-1 - PN 40	132.0	6.56	VLDFDR075
100	4"	Stainless steel	EN1092-1 - PN 40	137.0	7.01	VLDFDR100
125	5"	Stainless steel	EN1092-1 - PN 40	142.0	12.56	VLDFDR125
150	6"	Stainless steel	EN1092-1 - PN 40	150.0	14.67	VLDFDR150



Coupling standard: Federal Mil A-A-59326A

Flange standard: EN 1092-1, type 11

Stainless steel: AISI 316 - EN 1.4401

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

## TYPE DF: COUPLER WITH FIXED FLANGE IN COMPLIANCE WITH ASTM

ND	Inch	Material	Welding neck flange	Total length*	Weight/pc Kg	Reference
15	1/2"	Stainless steel	ASTM - ASA 150 lbs	94.0	0.62	VL DFA1R013
20	3/4"	Stainless steel	ASTM - ASA 150 lbs	108.0	0.90	VL DFA1R019
25	1"	Stainless steel	ASTM - ASA 150 lbs	114.0	1.09	VL DFA1R025
32	1.1/4"	Stainless steel	ASTM - ASA 150 lbs	128.0	1.70	VL DFA1R032
40	1.1/2"	Stainless steel	ASTM - ASA 150 lbs	135.0	1.94	VL DFA1R038
50	2"	Stainless steel	ASTM - ASA 150 lbs	141.0	2.87	VL DFA1R050
65	2.1/2"	Stainless steel	ASTM - ASA 150 lbs	150.0	4.54	VL DFA1R063
80	3"	Stainless steel	ASTM - ASA 150 lbs	152.0	5.16	VL DFA1R075
100	4"	Stainless steel	ASTM - ASA 150 lbs	161.0	7.44	VL DFA1R100
125	5"	Stainless steel	ASTM - ASA 150 lbs	176.0	9.86	VL DFA1R125
150	6"	Stainless steel	ASTM - ASA 150 lbs	184.0	11.77	VL DFA1R150



Coupling standard: Federal Mil A-A-59326A

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

Stainless steel: AISI 316 - EN 1.4401

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

## CAM &amp; GROOVE SPOOL COUPLINGS



## TYPE AA: SPOOL ADAPTOR

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

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



## TYPE DD: SPOOL COUPLER

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

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



## CAM &amp; GROOVE SPOOL COUPLINGS



## TYPE DA: SPOOL COUPLER - ADAPTOR

ND Coupler-Adaptor	Inch Coupler-Adaptor	Material	Weight/pc Kg	Reference
50-80	2" - 3"	Aluminium	0.75	VLDAA050075
80-50	3" - 2"	Aluminium	1.14	VLDAA075050
80-100	3" - 4"	Aluminium	1.30	VLDAA075100
100-50	4" - 2"	Aluminium	1.26	VLDAA100050
100-80	4" - 3"	Aluminium	1.51	VLDAA100075
100-150	4" - 6"	Aluminium	1.92	VLDAA100150

50-80	2" - 3"	Stainless steel	1.75	VLDAR050075
80-50	3" - 2"	Stainless steel	1.85	VLDAR075050
100-80	4" - 3"	Stainless steel	4.31	VLDAR100075
150-100	6" - 4"	Stainless steel	5.71	VLDAR150100

50-80	2" - 3"	Brass	1.96	VLDAM050075
80-50	3" - 2"	Brass	2.80	VLDAM075050
100-50	4" - 2"	Brass	3.22	VLDAM100050
100-80	4" - 3"	Brass	4.31	VLDAM100075
150-100	6" - 4"	Brass	8.16	VLDAM150100

Coupling standard: Federal Mil A-A-59326A

Version: monoblock

Stainless steel: AISI 316 - EN 1.4401



## CAM &amp; GROOVE REDUCING COUPLINGS



## TYPE A: REDUCING ADAPTOR FEMALE THREADED

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

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



## TYPE B: REDUCING COUPLER MALE THREADED

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

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



## TYPE C: REDUCING COUPLER WITH SERRATED HOSE SHANK

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

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



## CAM &amp; GROOVE REDUCING COUPLINGS



## TYPE D: REDUCING COUPLER FEMALE THREADED

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



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

## TYPE E: REDUCING ADAPTOR WITH SERRATED HOSE SHANK

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



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

## TYPE F: REDUCING ADAPTOR MALE THREADED

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



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

## CAM &amp; GROOVE SEALS



## SQUARE SEAL - NBR

ND	Inch	OD $\pm$ 0.3 mm	ID $\pm$ 0.2 mm	Height $\pm$ 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 / FED MIL A-A59326A, with exception of ND 15, ND 125, ND 150 and ND 200 See chapter F for more information regarding chemical resistance

## SQUARE SEAL - EPDM

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



Material: EPDM

Colour: Black yellow marked

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

## CAM &amp; GROOVE SEALS



## SQUARE SEAL - FPM

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



Material: FPM

Colour: Green

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

## SQUARE SEAL - CSM

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



Material: CSM

Colour: Black green marked

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

## CAM &amp; GROOVE SEALS



## CLOSED SEAL - FEP / SILICONE

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



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



## OPEN ENVELOPE SEAL - PTFE / EPDM

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



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

## CAM &amp; GROOVE SEALS



## OPEN ENVELOPE SEAL - PTFE / FPM

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



Material: PTFE envelope / FPM core

Colour: White outside / black grey marked inside

Seal and seal dimensions not specified by EN 14420-7 / FED MIL A-A59326A

FDA conformity certificate for PTFE part of the seal on request available

See chapter F for more information regarding chemical resistance

## CLOSED ENVELOPE SEAL - PTFE / FPM

ND	Inch	ODØ +/- 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 envelope / FPM core; TFM™ is a registered trademark of Dyneon

Colour: Translucent outside / black inside

FDA conformity certificate on request available

Seal and seal dimensions not specified by EN 14420-7 / FED MIL A-A59326A

See chapter F for more information regarding chemical resistance



## CAM &amp; GROOVE SEALS



## THREAD SEAL - PTFE

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

Material: PTFE

Colour: White

Seal dimensions in compliance with EN 14420-5

See chapter F for more information regarding chemical resistance



## THREAD SEAL - PU

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

Material: PU

Colour: Brown

Seal dimensions in compliance with EN 14420-5

See chapter F for more information regarding chemical resistance



## CAM &amp; GROOVE ACCESSORIES



## STANDARD HANDLE

ND	Inch	Material	Weight/pc Kg	Reference
15 - 20	1/2" - 3/4"	Stainless steel	0.02	VLHRPR1K
25	1"	Stainless steel	0.03	VLHRPR2K
32 - 65	1.1/4" - 2.1/2"	Stainless steel	0.06	VLHRPR3K
80 - 125	3" - 5"	Stainless steel	0.11	VLHRPR4K
150	6"	Stainless steel	0.25	VLHRPR6K
25	1"	Brass	0.04	VLHRPM2K
32-65	1.1/4" - 2.1/2"	Brass	0.08	VLHRPM3K
80-125	3" - 5"	Brass	0.10	VLHRPM4K
150	6"	Brass	0.26	VLHRPM6K

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



## SAFETY REBUILDING SET

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

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



VLHRPR2S  
VLHRPR3S

VLHRPR4S

SAFETY  
HOOK

## PULL RING

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

Stainless steel AISI 304 - EN 1.4301



## CAM &amp; GROOVE ACCESSORIES



## PIN

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



## S-HOOK

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



## SAFETY CLIP

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



## CHAIN WITH S-HOOK

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



## CAP L-HANDLE 90°

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

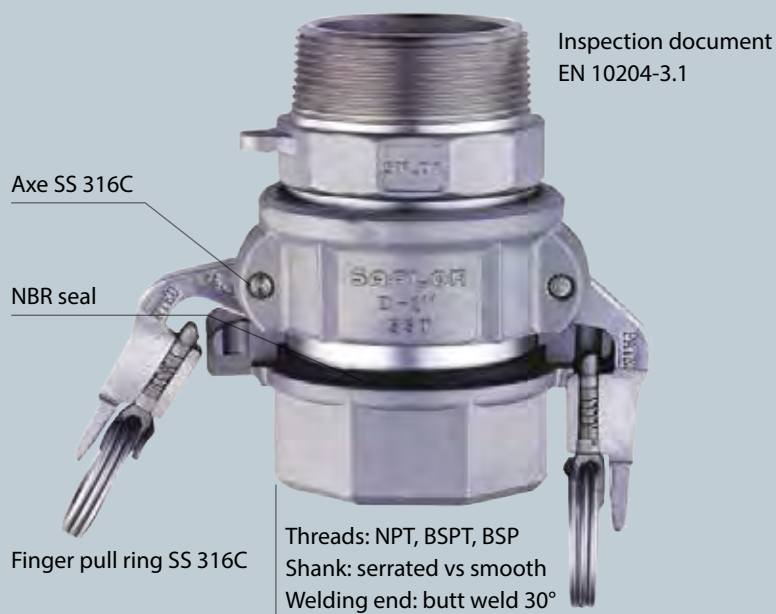


L-handle: Patented handle stainless steel AISI 304 - EN 1.4301  
 Pull ring: stainless steel AISI 304 - EN 1.4301  
 Safety clip: carbon steel

## STANDARD

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

## OPERATION



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

## APPLICATION

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

## WORKING PRESSURE

25 bar

Minimum working pressure: 0,1 bar

Maximum working pressure: 25 bar

## TEMPERATURE

-20°C / -40°F up to 65°C / 149°F

## MATERIAL

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

## ASSEMBLY

Serrated hose shank: band or bolted clamps

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





### TYPE C: COUPLER WITH SMOOTH HOSE SHANK

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

#### Swivel version

40	1.1/2"	38	NBR	0,92	VLCR038DSAFS
50	2"	50	NBR	1,09	VLCR050DSAFS



### TYPE C: COUPLER WITH SERRATED HOSE SHANK

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



Coupling standard: Federal Mil A-A-59326A

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

Stainless steel: AISI 316C / 1.4408

### TYPE B: COUPLER MALE THREADED BSPT

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



Coupling standard: Federal Mil-A-A-59326A / DIN 2828

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

Stainless steel: AISI 316C / 1.4408



# SAFLOK CAM & GROOVE COUPLINGS

## TYPE B: COUPLER MALE THREADED NPT

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



Coupling standard: Federal Mil A-A-59326A

Male thread: ANSI B.1.20.1

Stainless steel: AISI 316C / 1.4408

## TYPE D: COUPLER DIN 2828 FEMALE THREADED BSP

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



Coupling standard: DIN 2828

Female thread: EN ISO 228-1 BSP + PTFE thread seal according to EN 14420-5

Stainless steel: AISI 316C / 1.4408

## TYPE D: COUPLER FEMALE THREADED NPT

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



Coupling standard: Federal Mil A-A-59326A

Female thread: ANSI B.1.20.1 NPT

Stainless steel: AISI 316C / 1.4408

## SAFLOK CAM &amp; GROOVE COUPLINGS



## TYPE DC: COUPLER DUST CAP

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



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

## TYPE DWB: COUPLER BUTT WELD CONNECTION DIN 2828

ND	Inch	DIN 2828	Coupler seal	Weight kg	Reference
20	3/4"	26,67 x 2,3	NBR	0,40	VLDWBR019SAF
25	1"	33,40 x 2,6	NBR	0,55	VLDWBR025SAF
32	1.1/4"	42,16 x 2,6	NBR	0,75	VLDWBR032SAF
40	1.1/2"	48,26 x 2,6	NBR	0,80	VLDWBR038SAF
50	2"	60,33 x 2,9	NBR	0,90	VLDWBR050SAF
65	2.1/2"	76,03 x 2,9	NBR	1,20	VLDWBR063SAF
80	3"	88,90 x 3,2	NBR	1,60	VLDWBR075SAF
100	4"	114,30 x 3,6	NBR	2,55	VLDWBR100SAF



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

## TYPE DWB: COUPLER BUTT WELD CONNECTION INCH

ND	Inch	INCH SCH 10S	Coupler seal	Weight kg	Reference
20	3/4"	26,67 x 2,11	NBR	0,40	VLDWBR019S10SAF
25	1"	33,4 x 2,77	NBR	0,55	VLDWBR025S10SAF
32	1.1/4"	42,16 x 2,77	NBR	0,75	VLDWBR032S10SAF
40	1.1/2"	48,26 x 2,77	NBR	0,80	VLDWBR038S10SAF
50	2"	60,33 x 2,77	NBR	0,90	VLDWBR050S10SAF
65	2.1/2"	76,03 x 3,05	NBR	1,20	VLDWBR063S10SAF
80	3"	88,90 x 3,05	NBR	1,60	VLDWBR075S10SAF
100	4"	114,30 x 3,05	NBR	2,55	VLDWBR100S10SAF



Coupling standard: Federal Mil A-A-59326A  
Welding end: butt weld for pipe system according to INCH Sch 10S  
Stainless steel: AISI 316C / 1.4408

## SAFLOK CAM &amp; GROOVE COUPLINGS



## TYPE DWB: COUPLER BUTT WELD CONNECTION INCH

ND	Inch	INCH SCH 10S	Coupler seal	Weight kg	Reference
20	3/4"	26,67 x 2,11	NBR	0,40	VLDWBR019S40SAF
25	1"	33,40 x 2,77	NBR	0,55	VLDWBR025S40SAF
32	1.1/4"	42,16 x 2,77	NBR	0,75	VLDWBR032S40SAF
40	1.1/2"	48,26 x 2,77	NBR	0,80	VLDWBR038S40SAF
50	2"	60,33 x 2,77	NBR	0,90	VLDWBR050S40SAF
65	2.1/2"	76,03 x 3,05	NBR	1,20	VLDWBR063S40SAF
80	3"	88,90 x 3,05	NBR	1,60	VLDWBR075S40SAF
100	4"	114,30 x 3,05	NBR	2,55	VLDWBR100S40SAF



Coupling standard: Federal Mil A-A-59326A

Welding end: butt weld for pipe system according to INCH Sch 40S STD

Stainless steel: AISI 316C / 1.4408

## TYPE DF: COUPLER WITH FIXED FLANGE

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



Coupling standard: Federal Mil A-A-59326A

Fixed flange according to EN 1092-1 type 11

Stainless steel: AISI 316C / 1.4408 coupling / flange ring and stub end AISI 316

## TYPE DF: COUPLER WITH SWIVEL FLANGE

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



Coupling standard: Federal Mil A-A-59326A

Swivel flange according to EN 1092-1 type 04

Stainless steel: AISI 316C / 1.4408 coupling / flange ring and stub end AISI 316

## SAFLOK CAM &amp; GROOVE COUPLINGS



## SPAREPARTS: SAFETY HANDLE

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

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



## SPAREPARTS: PULL RING

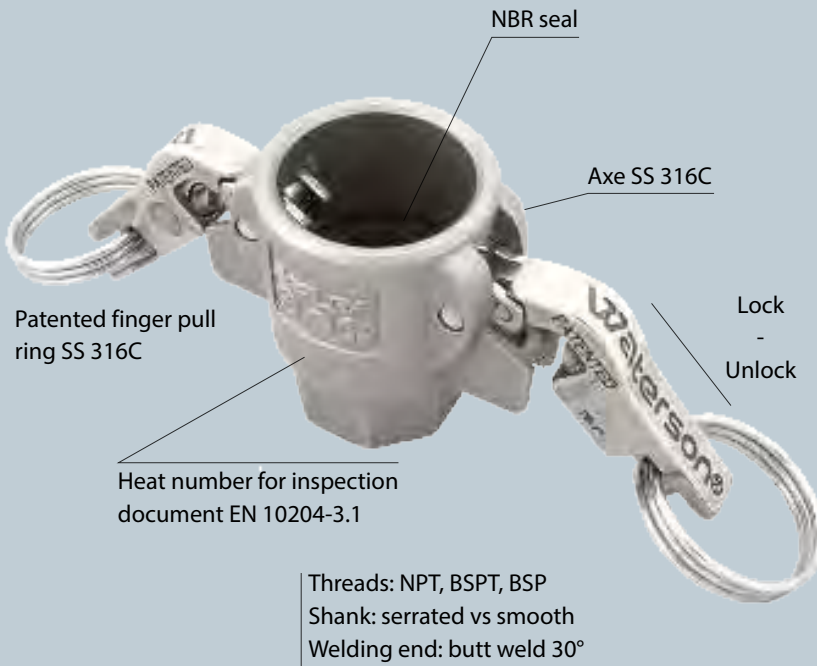
ND	Inch	Weight kg	Reference
20-100	3/4"-4"	0,05	VLRRSAF

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



## STANDARD

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



## OPERATION

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

## APPLICATION

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

## WORKING PRESSURE

Minimum working pressure: 0,1 bar

Maximum working pressure: 25 bar

## TEMPERATURE

-20°C / -40°F up to 65°C / 149°F

## MATERIAL

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

## ASSEMBLY

Serrated hose shank: band or bolted clamps

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





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

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

**CLOSED**  
the bleed off coupler has a patented bleed off feature with selflocking arm



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

## BLEED OFF SAFLOK COUPLINGS



## TYPE C: COUPLER WITH SMOOTH HOSE SHANK

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



Swivel version: VLCR...DSAFSBO available upon request

## TYPE B: COUPLER MALE THREADED BSPT

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



Coupling standard: Federal Mil-A-A-59326A / DIN 2828

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

Stainless steel: AISI 316C / 1.4408

## TYPE B: COUPLER MALE THREADED NPT

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



Coupling standard: Federal Mil-A-A-59326A

Male thread: ANSI B.1.20.1 NPT

Stainless steel: AISI 316C / 1.4408

## BLEED OFF SAFLOK COUPLINGS



## TYPE D: COUPLER DIN 2828 FEMALE THREADED BSP

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



Coupling standard: DIN 2828

Female thread: EN ISO 228-1 BSP + PTFE thread seal according to EN 14420-5

Stainless steel: AISI 316C / 1.4408

## TYPE D: COUPLER FEMALE THREADED NPT

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



Coupling standard: Federal Mil A-A-59326A

Female thread: ANSI B.1.20.1 NPT

Stainless steel: AISI 316C / 1.4408

## TYPE DC: COUPLER DUST CAP

ND	Inch	Coupler seal	Weight kg	Reference
20	3/4"	NBR	0,40	VLKR019NSAFBO
25	1"	NBR	0,45	VLKR025NSAFBO
32	1.1/4"	NBR	0,70	VLKR032NSAFBO
40	1.1/2"	NBR	0,72	VLKR038NSAFBO
50	2"	NBR	0,79	VLKR050NSAFBO
65	2.1/2"	NBR	0,97	VLKR063NSAFBO
80	3"	NBR	1,00	VLKR075NSAFBO
100	4"	NBR	2,20	VLKR100NSAFBO



Coupling standard: Federal Mil A-A-59326A

Stainless steel: AISI 316C / 1.4408


**TYPE DWB: COUPLER BUTT WELD CONNECTION SCH40**

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



Coupling standard: FederalMil A-A-59326A

Welding end: butt weld for pipe system according to INCH Sch 40S STD

Stainless steel: AISI 316C / 1.4408