

STANDARD

LMC's DINBO couplings have been developed for use in steam applications up to 18 bar / 260 psi. The hose shank is designed in compliance with EN 14423 / DIN 2826 for assembly with RKS steam clamps complying with EN 14423 / DIN 2826.

OPERATION

The round head of the hose shank is designed to fit the ground joint coupling. The spud forms one half of the LMC's DINBO coupling and is usually permanently fixed to the equipment. The hose shank and wing nut are clamped to the hose using RKS steam clamps complying with EN 14423 / DIN 2826. The spud and hose shank are connected/disconnected by rotating the wing nut on the spud to achieve a mechanical and pressure connection. The rounded head of the hose shank contacts the bevelled polymer insert of the spud, creating a soft-to-hard polymer connection.

APPLICATION

DINBO couplings are commonly used for compressed air, water, liquid petroleum gas, fluid petroleum products, chemical, potable fluids and almost any other type of fluid or gas. They can be used with all types of rubber, synthetic, plastic, metal (with special stems) or semi-metal hoses.

N.B.: Steam is dangerous. Never use quick-release couplings for steam applications.

WORKING PRESSURE

18 bar / 260 psi

TEMPERATURE

-51°C / -60°F up to 232°C / 450°F

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

MATERIAL

- Coupling
 - Stainless steel AISI 316 - EN 1.4401
 - Plated steel
 - Bronze G-CuSn7ZnPb
- Seal
 - PTFE + 15% graphite



ASSEMBLY

RKS steam clamps complying with EN 14423 / DIN 2826

N.B.: The bolts used for RKS steam clamps are not standard bolts. They differ from standard bolts in terms of their length, diameter, overall thread length and material hardness. The bolts can be re-torqued, but this is not recommended, since they are designed for one-off use only. We recommend using only factory-supplied replacement bolts.

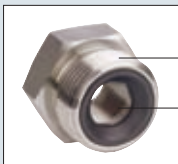
THREADS

Wing nut: NPSM (American National Straight Pipe thread for Mechanical Joints)

Spud

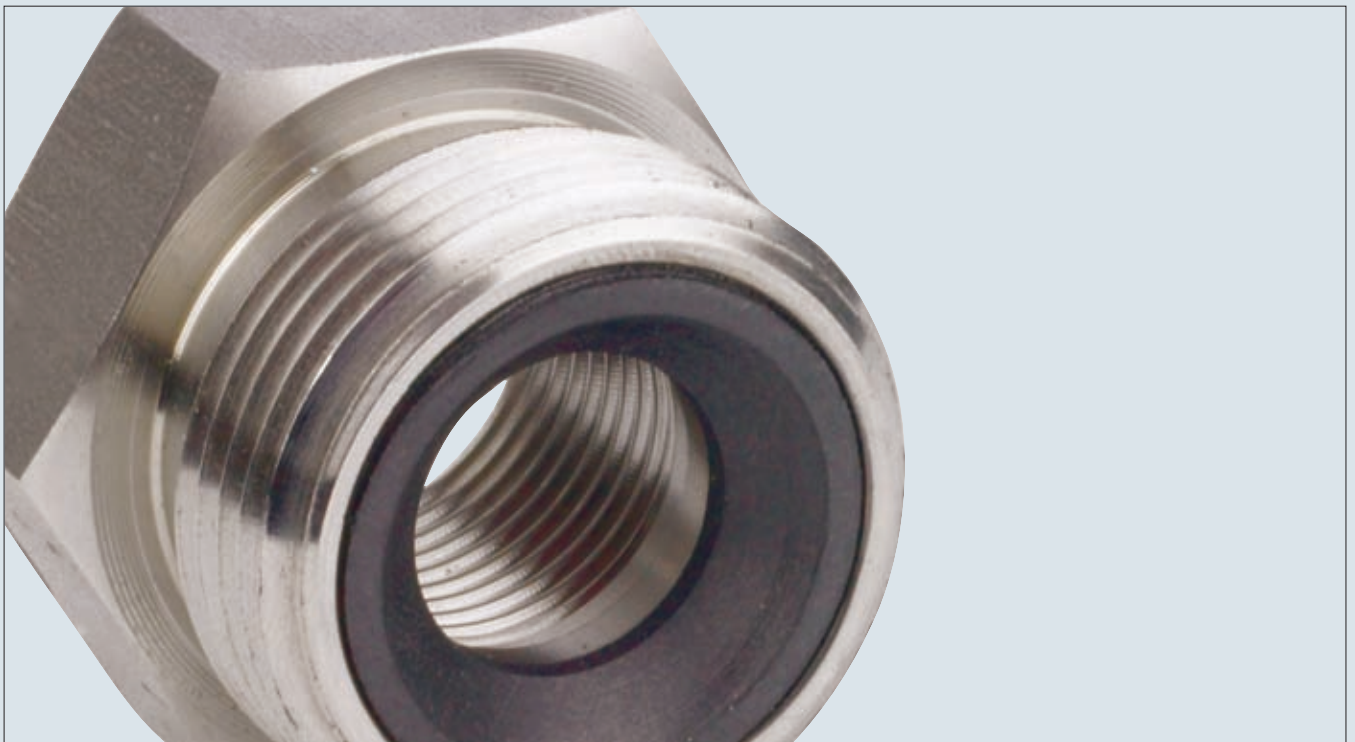
Female thread: EN 10226-1 / DIN 2999, BSPT (NPT available on request)

Male thread: NPSM



Male thread NPSM

Female thread BSPT



DINBO STEAM COUPLINGS



FEMALE SPUD, HOSE SHANK AND NUT

ND	Inch	For hose mm	Material hose shank + nut	Spud material	Weight/pc Kg	Reference
15	1/2"	13	Steel	Steel	0.35	BGFL013
20	3/4"	19	Steel	Steel	0.94	BGFL019
25	1"	25	Steel	Steel	0.82	BGFL025
15	1/2"	13	SS	SS	0.39	BGFL013RR
20	3/4"	19	SS	SS	0.95	BGFL019RR
25	1"	25	SS	SS	0.90	BGFL025RR
15	1/2"	13	SS	Bronze	0.38	BGFL013RB
20	3/4"	19	SS	Bronze	0.99	BGFL019RB
25	1"	25	SS	Bronze	0.92	BGFL025RB



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

Seal: PTFE +15% graphite

Stainless steel AISI 316 - EN 1.4401; Plated steel

WING NUT

ND	Inch	Material	Thread	Weight/pc Kg	Reference
15	1/2"	Steel	NPSM 1"	0.13	BOML013
20	3/4"	Steel	NPSM 1 1/2"	0.33	BOML019
25	1"	Steel	NPSM 1 1/2"	0.33	BOML019
15	1/2"	Stainless steel	NPSM 1"	0.15	BOML013R
20	3/4"	Stainless steel	NPSM 1 1/2"	0.37	BOML019R
25	1"	Stainless steel	NPSM 1 1/2"	0.37	BOML019R



Female thread: NPSM

Stainless steel AISI 316 - EN 1.4401

HOSE SHANK

ND	Inch	For hose mm	Material	Weight/pc Kg	Reference
15	1/2"	13	Steel	0.18	BOPL013
20	3/4"	19	Steel	0.20	BOPL019
25	1"	25	Steel	0.25	BOPL025
15	1/2"	13	Stainless steel	0.10	BOPL013R
20	3/4"	19	Stainless steel	0.24	BOPL019R
25	1"	25	Stainless steel	0.25	BOPL025R



Hose shank: EN 14423 / DIN 2826

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

Stainless steel AISI 316 - EN 1.4401

DINBO STEAM COUPLINGS



FEMALE SPUD FOR WING NUT

ND	Inch	Material	Male thread	Female thread EN 1226-1	Weight/pc Kg	Reference
15	1/2"	Steel	NPSM 1"	R 1/2"	0.11	BOF013
20	3/4"	Steel	NPSM 1 1/2"	R 3/4"	0.32	BOF019
25	1"	Steel	NPSM 1 1/2"	R 1"	0.25	BOF025
15	1/2"	Stainless steel	NPSM 1"	R 1/2"	0.14	BOF013R
20	3/4"	Stainless steel	NPSM 1 1/2"	R 3/4"	0.34	BOF019R
25	1"	Stainless steel	NPSM 1 1/2"	R 1"	0.28	BOF025R
15	1/2"	Bronze	NPSM 1"	R 1/2"	0.13	BOF013B
20	3/4"	Bronze	NPSM 1 1/2"	R 3/4"	0.38	BOF019B
25	1"	Bronze	NPSM 1 1/2"	R 1"	0.30	BOF025B



Male thread: NPSM

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

Seal: PTFE +15% graphite

RKS STEAM CLAMPS EN 14423 / DIN 2826

For hose mm	OD hose min-max mm	Material	Width mm	Height mm	Nuts and bolts		Weight kg	Reference
					Quantity	Thread Metric		
13 x 6	24 - 26	Brass	53	65	4	M6	0.33	RKS013
19 x 7	32 - 34	Brass	68	65	4	M8	0.50	RKS019
25 x 7.5	39 - 41	Brass	77	65	4	M8	0.58	RKS025



Material: brass

Production method: drop forged

Set of RKS steam clamps = one pair of clamps, nuts and bolts included

Bolts DIN 912 / EN ISO 4762, zinc plated 8.8

Nuts DIN 934 / EN ISO 4032, zinc plated 8.8

RKS STEAM CLAMPS EN 14423 / DIN 2826

For hose mm	OD hose min-max mm	Material	Width mm	Height mm	Nuts and bolts		Weight kg	Reference
					Quantity	Thread Metric		
13 x 6	24 - 26	SS	53	65	4	M6	0.31	RKSR013
19 x 7	32 - 34	SS	68	65	4	M8	0.46	RKSR019
25 x 7.5	39 - 41	SS	77	65	4	M8	0.53	RKSR025



Material: stainless steel AISI 316 - EN 1.4401

Production method: investment casting

Set of RKS steam clamp = one pair of clamps, nuts and bolts included

Bolts DIN 912 / EN ISO 4762, stainless steel A.2

Nuts DIN 934 / EN ISO 4032, stainless steel A.2