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 & GROOVE COUPLINGS

TYPE B: COUPLER MALE THREADED

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



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



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



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



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



Coupling standard: Federal Mil A-A-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

CAM & GROOVE COUPLINGS

TYPE D: COUPLER FEMALE THREADED

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



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



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



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



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

Coupling standard: Federal Mil A-A-59326A
Female thread: EN IS0 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 & 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 & 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

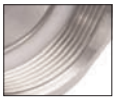
CAM & GROOVE COUPLINGS EN 14420-7 / DIN 2828

TYPE AF: ADAPTOR FEMALE THREADED WITH THREAD SEAL

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







Thread seal

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

TYPE EC: ADAPTOR WITH SMOOTH HOSE SHANK

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







Smooth hose shank and collar

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

CAM & GROOVE COUPLINGS EN 14420-7 / DIN 2828

TYPE DF: COUPLER FEMALE THREADED WITH THREAD SEAL

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



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



Thread seal

TYPE CC: COUPLER WITH SMOOTH HOSE SHANK

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





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



Smooth hose shank and collar

CAM & GROOVE SAFETY COUPLINGS

TYPE D: COUPLER FEMALE THREADED WITH SAFETY HANDLES

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



Coupling standard: Federal Mil A-A-59326A
Female thread: EN IS0 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 subjet to change without prior notice

CAM & GROOVE SAFETY COUPLINGS

TYPE CC: COUPLER WITH SMOOTH HOSE SHANK AND SAFETY HANDLES

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



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

TYPE DC: FEMALE DUST CAP WITH SAFETY HANDLES

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



Coupling standard: Federal Mil A-A-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



VLHRPR2S
VLHRPR3S



VLHRPR4S



SAFETY HOOK

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

CAM & GROOVE WELDING COUPLINGS

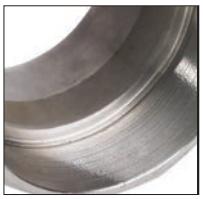
Butt weld vs socket weld

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

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


Butt weld connection

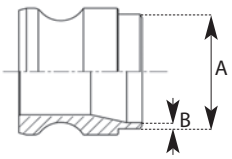
Butt welding
Welding ends with a butt weld connection are used for welding the majority of cam & groove couplings. A butt weld connection consists of a 30° welding end. During the welding process, the butt weld cam & groove coupling is connected to a hose, pipe or coupling by the application of heat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

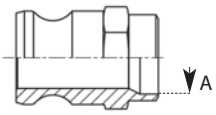

Socket weld connection

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





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 & 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	VLAFDR013
20	3/4"	Stainless steel	EN1092-1 - PN 40	95.0	1.22	VLAFDR019
25	1"	Stainless steel	EN1092-1 - PN 40	105.0	1.35	VLAFDR025
32	1.1/4"	Stainless steel	EN1092-1 - PN 40	114.0	2.05	VLAFDR032
40	1.1/2"	Stainless steel	EN1092-1 - PN 40	119.0	2.45	VLAFDR038
50	2"	Stainless steel	EN1092-1 - PN 40	129.0	3.29	VLAFDR050
65	2.1/2"	Stainless steel	EN1092-1 - PN 40	133.0	3.85	VLAFDR063
80	3"	Stainless steel	EN1092-1 - PN 40	144.0	4.80	VLAFDR075
100	4"	Stainless steel	EN1092-1 - PN 40	155.0	7.21	VLAFDR100
125	5"	Stainless steel	EN1092-1 - PN 40	160.0	9.82	VLAFDR125
150	6"	Stainless steel	EN1092-1 - PN 40	162.0	13.86	VLAFDR150



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	VLAFA1R013
20	3/4"	Stainless steel	ASTM - ASA 150 lbs	113.0	0.96	VLAFA1R019
25	1"	Stainless steel	ASTM - ASA 150 lbs	123.0	1.36	VLAFA1R025
32	1.1/4"	Stainless steel	ASTM - ASA 150 lbs	131.0	1.91	VLAFA1R032
40	1.1/2"	Stainless steel	ASTM - ASA 150 lbs	139.0	2.33	VLAFA1R038
50	2"	Stainless steel	ASTM - ASA 150 lbs	148.0	3.39	VLAFA1R050
65	2.1/2"	Stainless steel	ASTM - ASA 150 lbs	158.0	5.36	VLAFA1R063
80	3"	Stainless steel	ASTM - ASA 150 lbs	164.0	6.58	VLAFA1R075
100	4"	Stainless steel	ASTM - ASA 150 lbs	180.0	9.54	VLAFA1R100
125	5"	Stainless steel	ASTM - ASA 150 lbs	194.0	12.72	VLAFA1R125
150	6"	Stainless steel	ASTM - ASA 150 lbs	196.0	16.14	VLAFA1R150



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

CAM & 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	VLDFA1R013
20	3/4"	Stainless steel	ASTM - ASA 150 lbs	108.0	0.90	VLDFA1R019
25	1"	Stainless steel	ASTM - ASA 150 lbs	114.0	1.09	VLDFA1R025
32	1.1/4"	Stainless steel	ASTM - ASA 150 lbs	128.0	1.70	VLDFA1R032
40	1.1/2"	Stainless steel	ASTM - ASA 150 lbs	135.0	1.94	VLDFA1R038
50	2"	Stainless steel	ASTM - ASA 150 lbs	141.0	2.87	VLDFA1R050
65	2.1/2"	Stainless steel	ASTM - ASA 150 lbs	150.0	4.54	VLDFA1R063
80	3"	Stainless steel	ASTM - ASA 150 lbs	152.0	5.16	VLDFA1R075
100	4"	Stainless steel	ASTM - ASA 150 lbs	161.0	7.44	VLDFA1R100
125	5"	Stainless steel	ASTM - ASA 150 lbs	176.0	9.86	VLDFA1R125
150	6"	Stainless steel	ASTM - ASA 150 lbs	184.0	11.77	VLDFA1R150



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

CAM & GROOVE SPOOL COUPLINGS

TYPE AA: SPOOL ADAPTOR

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







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

TYPE DD: SPOOL COUPLER

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



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

CAM & GROOVE SPOOL COUPLINGS

TYPE DA: SPOOL COUPLER - ADAPTOR

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



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



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



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

CAM & GROOVE REDUCING COUPLINGS

TYPE A: REDUCING ADAPTOR FEMALE THREADED

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



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

TYPE B: REDUCING COUPLER MALE THREADED

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



20 - 3/4"	15	R 1/2	Polypropylene	0.07	VLBP019013
40 - 1.1/2"	32	R 1.1/4	Polypropylene	0.23	VLBP038032



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

TYPE C: REDUCING COUPLER WITH SERRATED HOSE SHANK

ND - Inch Coupler	For hose mm	Material	Weight/pc Kg	Reference
50 - 2"	38	Aluminium	0.44	VLCA050038
80 - 3"	50	Aluminium	0.86	VLCA075050
80 - 3"	100	Aluminium	1.10	VLCA075100
100 - 4"	75	Aluminium	1.20	VLCA100075



20 - 3/4"	13	Polypropylene	0.07	VLCP019013
40 - 1.1/2"	32	Polypropylene	0.24	VLCP038032



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

CAM & GROOVE REDUCING COUPLINGS

TYPE D: REDUCING COUPLER FEMALE THREADED

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



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

TYPE E: REDUCING ADAPTOR WITH SERRATED HOSE SHANK

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



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

TYPE F: REDUCING ADAPTOR MALE THREADED

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



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

CAM & GROOVE SEALS

SQUARE SEAL - NBR

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



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



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

CAM & GROOVE SEALS

SQUARE SEAL - FPM

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



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

SQUARE SEAL - CSM

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



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

CAM & GROOVE SEALS

CLOSED SEAL - FEP / SILICONE

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



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

OPEN ENVELOPE SEAL - PTFE / EPDM

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



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

CAM & GROOVE SEALS

OPEN ENVELOPE SEAL - PTFE / FPM

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



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

CLOSED ENVELOPE SEAL - PTFE / FPM

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



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

CAM & GROOVE SEALS

THREAD SEAL - PTFE

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



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

THREAD SEAL - PU

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



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

CAM & GROOVE ACCESSORIES

STANDARD HANDLE

ND	Inch	Material	Weight/pc Kg	Reference
15 - 20	1/2" - 3/4"	Stainless steel	0.02	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



VLHRPR2S
VLHRPR3S

VLHRPR4S

SAFETY HOOK

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

PULL RING

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



Stainless steel AISI 304 - EN 1.4301

CAM & GROOVE ACCESSORIES

PIN

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



S-HOOK

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



SAFETY CLIP

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



CHAIN WITH S-HOOK

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



CAP L-HANDLE 90°

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



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