

Series RH/RK ▪ Characteristics

Description

Pipeline couplings of the RK/RH series are used for flawless connection of hydraulic lines without the inclusion of air and permit separation without any loss of medium.

This series is particularly convenient for rugged application.

To guarantee an optimum of durability as well as no leakage during the application, it is necessary to screw or rather connect the female and the male part till the block.

Due to design modifications it is now possible (depends on size) to charge the male and female side by being disconnected with pressure up to 420 bar / 6090 PSI, without destroying any components.

Working Pressure

420 bar / 42 MPa / 6090 PSI

The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Working Temperature

-20° C ... +100° C / -4° F ... +212° F

Connection under pressure

Possible (under low residual pressure)

Material

Steel

Surface Finishing

Zinc/Nickel

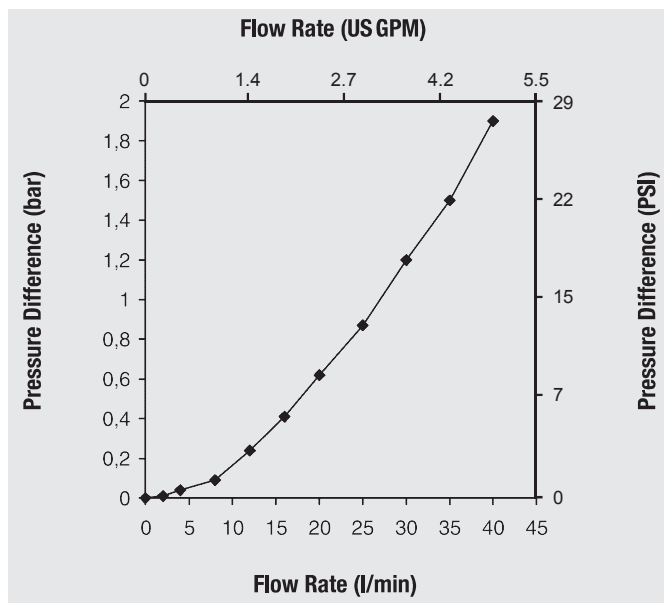
Standard Seal Material(s)

NBR (Buna-N®), PTFE

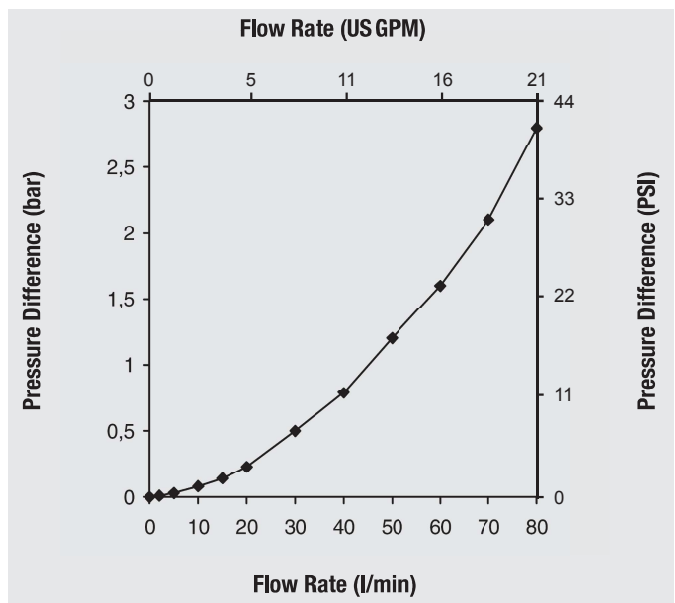
Alternative seal materials are available on request.



Series RH 08 ▪ BG 2 ▪ Nominal Size 10



Series RH 12 ▪ BG 3 ▪ Nominal Size 12,5

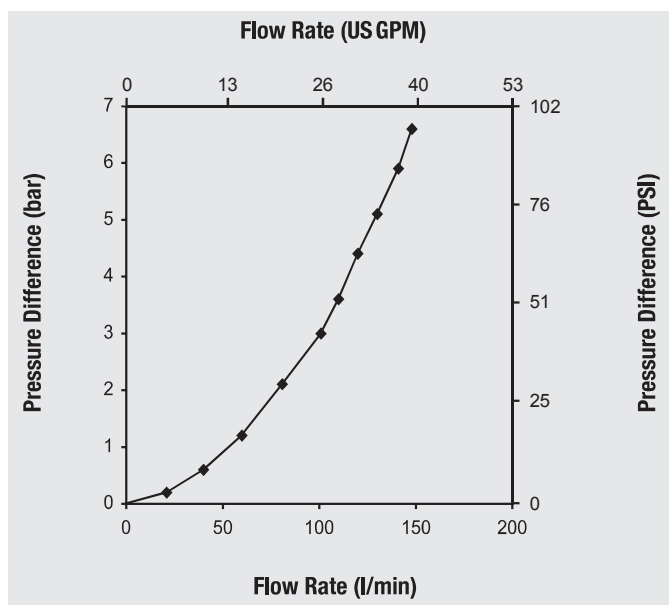


Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 36 mm²/s (36 cSt) and are only valid for components with non-reducing connections.

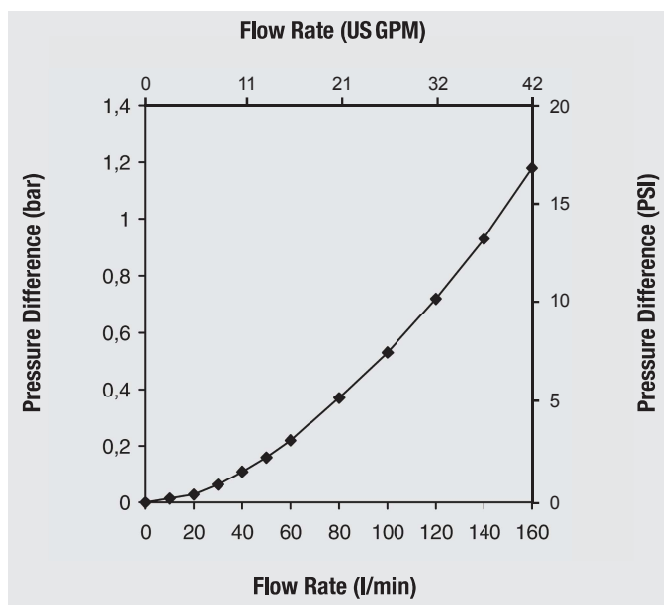
RH/RK



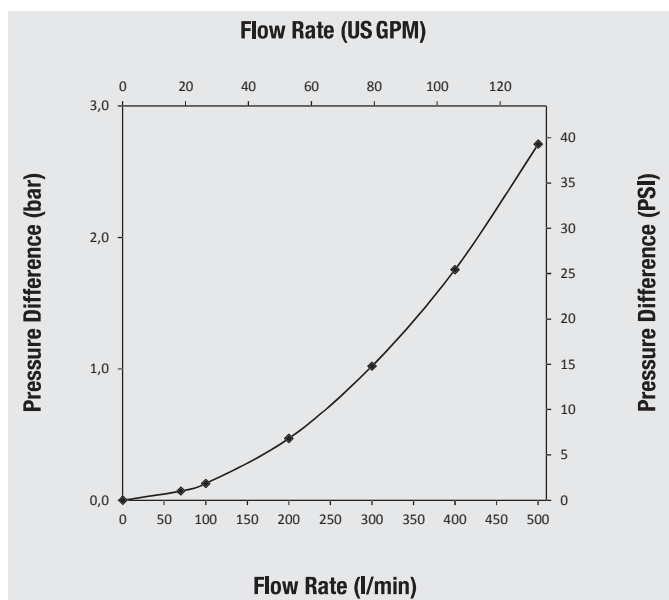
Series RH 16 ▪ BG 4 ▪ Nominal Size 16



Series RK 20 ▪ BG 6 ▪ Nominal Size 20



Series RH 25 ▪ BG 8 ▪ Nominal Size 25



RH/RK



Series RH 08 ▪ BG 2 ▪ Nominal Size 10

Working Pressure

420 bar / 42 MPa / 6092 PSI

Burst Pressure

1600 bar / 160 MPa / 23206 PSI (Female Body)

1600 bar / 160 MPa / 23206 PSI (Male Tip)

1600 bar / 160 MPa / 23206 PSI (Connected)

The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Material

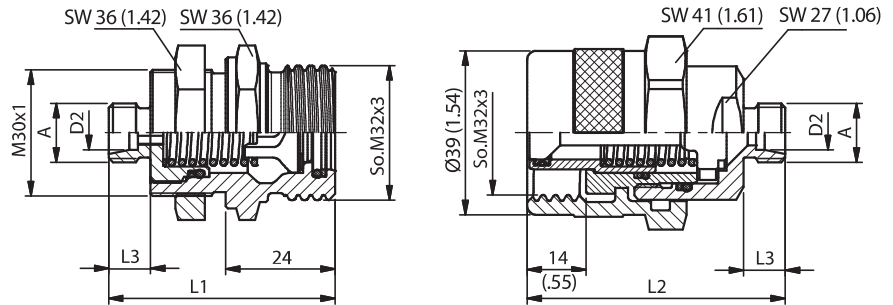
Steel

Surface Finishing

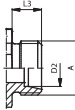
Zinc-Nickel

Standard Seal Material(s)

NBR (Buna-N®), PTFE, PU



SW: Width across flats. All dimensions in mm (inch).

	Port A	Dimensions (^{mm} / _{in})					Female Body	Weight	Male Tip	Weight
		ØD2	L1	L2	L3	L4	VOSWINKEL Part Numbers	(^g / _{oz}) ca.	VOSWINKEL Part Numbers	(^g / _{oz}) ca.
							STAUFF Ordering Codes	per pc.	STAUFF Ordering Codes	per pc.
Male Thread with 24° Conical Bore - Shape W according to DIN 3861										
	M14x1.5	8L	54	61	10		RH08-1-L0814	208	RH08-2-L0814	318
			2.13	2.40	.39		QRC-RH-10-F-08L-S1-W3	457.60	QRC-RH-10-M-08L-BT-W3	699.60
	M16x1.5	10L	55	61	11		RH08-1-L1016	210	RH08-2-L1016	320
			2.17	2.40	.43		QRC-RH-10-F-10L-S1-W3	462.00	QRC-RH-10-M-10L-BT-W3	704.00
	M18x1.5	12L	55	61	11		RH08-1-L1218	212	RH08-2-L1218	322
			2.17	2.40	.43		QRC-RH-10-F-12L-S1-W3	466.40	QRC-RH-10-M-12L-BT-W3	708.40
	M22x1.5	15L	56	62	12		RH08-1-L1522	220	RH08-2-L1522	329
			2.20	2.44	.47		QRC-RH-10-F-15L-S1-W3	484.00	QRC-RH-10-M-15L-BT-W3	723.80
	M18x1.5	10S	56	62	12		RH08-1-S1018	215	RH08-2-S1018	326
			2.20	2.44	.47		QRC-RH-10-F-10S-S1-W3	473.00	QRC-RH-10-M-10S-BT-W3	717.20
	M20x1.5	12S	56	62	12		RH08-1-S1220	220	RH08-2-S1220	330
			2.20	2.44	.47		QRC-RH-10-F-12S-S1-W3	484.00	QRC-RH-10-M-12S-BT-W3	726.00
	M22x1.5	14S	58	64	14		RH08-1-S1422	227	RH08-2-S1422	338
			2.28	2.52	.55		QRC-RH-10-F-14S-S1-W3	499.40	QRC-RH-10-M-14S-BT-W3	743.60
	M24x1.5	16S	58	64	14		RH08-1-S1624	230	RH08-2-S1624	339
			2.28	2.52	.55		QRC-RH-10-F-16S-S1-W3	506.00	QRC-RH-10-M-16S-BT-W3	745.80

RH/RK



Series RH 12 ▪ BG 3 ▪ Nominal Size 12,5

Working Pressure

420 bar / 42 MPa / 6092 PSI

Burst Pressure

1260 bar / 126 MPa / 18275 PSI (Female Body)

1260 bar / 126 MPa / 18275 PSI (Male Tip)

1260 bar / 126 MPa / 18275 PSI (Connected)

The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Material

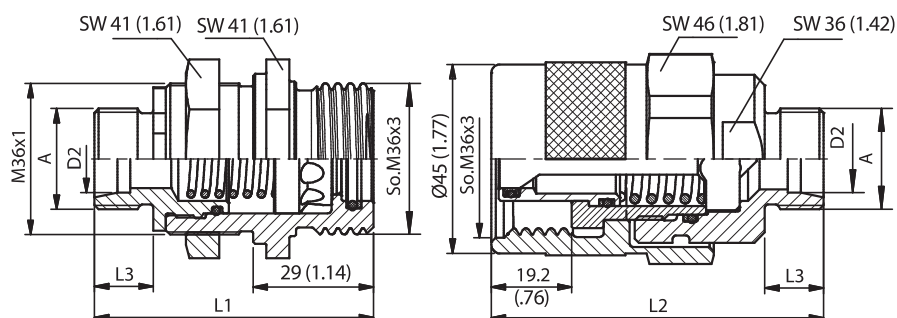
Steel

Surface Finishing

Zinc-Nickel

Standard Seal Material(s)

NBR (Buna-N®), PTFE, PU



SW: Width across flats. All dimensions in mm (inch).

	Port A	Dimensions					Female Body	Weight	Male Tip	Weight
		(mm/in)					VOSWINKEL Part Numbers	(g/oz) ca.	VOSWINKEL Part Numbers	(g/oz) ca.
		ØD2	L1	L2	L3	L4	STAUFF Ordering Codes	per pc.	STAUFF Ordering Codes	per pc.
Male Thread with 24° Conical Bore - Shape W according to DIN 3861										
	M22x1.5	15L	65	78	12		RH12-1-L1522	312	RH12-2-L1522	564
			2.56	3.07	.47		QRC-RH-12-F-15L-S1-W3	686.40	QRC-RH-12-M-15L-S1-W3	1240.80
	M24x1.5	16S	67	80	14		RH12-1-S1624	320	RH12-2-S1624	573
			2.64	3.15	.55		QRC-RH-12-F-16S-S1-W3	704.00	QRC-RH-12-M-16S-S1-W3	1260.60
	M30x2	20S	69,5	81,2	16		RH12-1-S2030	348	RH12-2-S2030	595
			2.74	3.20	.63		QRC-RH-12-F-20S-S1-W3	765.60	QRC-RH-12-M-20S-S1-W3	1309.00

RH/RK



Series RH 16 ▪ BG 4 ▪ Nominal Size 16

Working Pressure

420 bar / 42 MPa / 6092 PSI

Burst Pressure

1260 bar / 126 MPa / 18275 PSI (Female Body)

1260 bar / 126 MPa / 18275 PSI (Male Tip)

1260 bar / 126 MPa / 18275 PSI (Connected)

The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Material

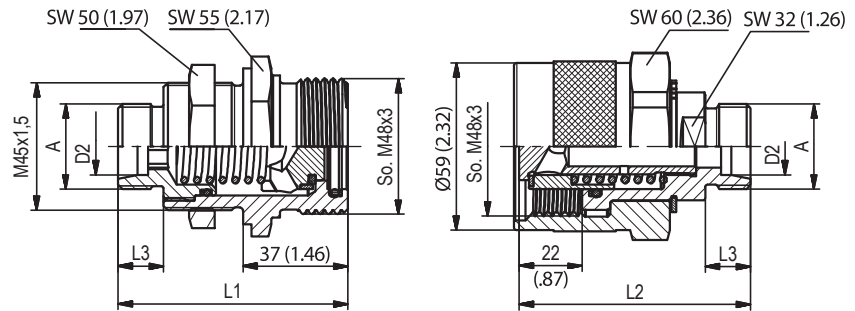
Steel

Surface Finishing

Zinc-Nickel

Standard Seal Material(s)

NBR (Buna-N®), PTFE, PU



SW: Width across flats. All dimensions in mm (inch).

	Port A	Dimensions (^{mm} / _{in})					Female Body		Weight	Male Tip		Weight
		ØD2	L1	L2	L3	L4	VOSWINKEL Part Numbers		(^g / _{oz}) ca.	VOSWINKEL Part Numbers		(^g / _{oz}) ca.
							STAUFF Ordering Codes		per pc.	STAUFF Ordering Codes		per pc.
Male Thread with 24° Conical Bore - Shape W according to DIN 3861												
	M22x1,5	15L	77 3.03	77 3.03	12 .47		RH16-1-L1522	614		RH16-2-L1522	940	
							QRC-RH-16-F-15L-S1-W3	1350.80		QRC-RH-16-M-15L-S1-W3	2068.00	
	M26x1,5	18L	77 3.03	77 3.03	12 .47		RH16-1-L1826	616		RH16-2-L1826	943	
							QRC-RH-16-F-18L-S1-W3	1355.20		QRC-RH-16-M-18L-S1-W3	2074.60	
	M24x1,5	16S	79 3.11	79 3.11	14 .55		RH16-1-S1624	617		RH16-2-S1624	945	
							QRC-RH-16-F-16S-S1-W3	1357.40		QRC-RH-16-M-16S-S1-W3	2079.00	
	M30x2	20S	81 3.19	81 3.19	16 .63		RH16-1-S2030	620		RH16-2-S2030	949	
							QRC-RH-16-F-20S-S1-W3	1364.00		QRC-RH-16-M-20S-S1-W3	2087.80	



Series RK 20 ▪ BG 6 ▪ Nominal Size 20
Working Pressure

350 bar / 35 MPa / 5076 PSI

Burst Pressure

1000 bar / 100 MPa / 14504 PSI (Female Body)

1200 bar / 120 MPa / 17405 PSI (Male Tip)

1000 bar / 100 MPa / 14504 PSI (Connected)

The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Material

Steel

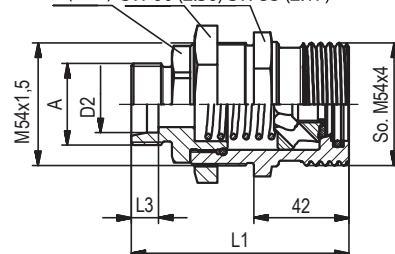
Surface Finishing

Zinc-Nickel

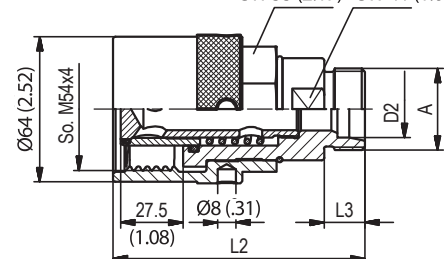
Standard Seal Material(s)

NBR (Buna-N®), PTFE, PU

SW 46 (1.81) SW 60 (2.36) SW 55 (2.17)



SW 55 (2.17) SW 41 (1.61)



SW: Width across flats. All dimensions in mm (inch).

	Port A	Dimensions (^{mm} / _{in})					Female Body VOSWINKEL Part Numbers	Weight (^g / _{oz}) ca.	Male Tip VOSWINKEL Part Numbers	Weight (^g / _{oz}) ca.
		ØD2	L1	L2	L3	L4	STAUFF Ordering Codes	per pc.	STAUFF Ordering Codes	per pc.
		Male Thread with 24° Conical Bore - Shape W according to DIN 3861								
	M26x1,5	18L	90 3.54	103 4.06	12 .47		RK20-1-L1826 QRC-RK-19-F-18L-S1-W3	880 1936.00	RK20-2-L1826 QRC-RK-19-M-18L-S1-W3	1288 2833.60
	M30x2	22L	92 3.62	105 4.13	14 .55		RK20-1-L2230 QRC-RK-19-F-22L-S1-W3	888 1953.60	RK20-2-L2230 QRC-RK-19-M-22L-S1-W3	1296 2851.20
	M36x2	28L	92 3.62	107 4.21	14 .55		RK20-1-L2836 QRC-RK-19-F-28L-S1-W3	900 1980.00	RK20-2-L2836 QRC-RK-19-M-28L-S1-W3	1306 2873.20
	M30x2	20S	95 3.74	109 4.29	16 .63		RK20-1-S2030 QRC-RK-19-F-20S-S1-W3	922 2028.40	RK20-2-S2030 QRC-RK-19-M-20S-S1-W3	1316 2895.20
	M36x2	25S	97 3.82	111 4.37	18 .71		RK20-1-S2536 QRC-RK-19-F-25S-S1-W3	930 2046.00	RK20-2-S2536 QRC-RK-19-M-25S-S1-W3	1323 2910.60
	M42x2	30S	99 3.90	113 4.45	20 .79		RK20-1-S3042 QRC-RK-19-F-30S-S1-W3	958 2107.60	RK20-2-S3042 QRC-RK-19-M-30S-S1-W3	1343 2954.60

RH/RK


Series RH 25 ▪ BG 8 ▪ Nominal Size 25

Working Pressure

420 bar / 42 MPa / 6092 PSI

Burst Pressure

1100 bar / 110 MPa / 15954 PSI (Female Body)

900 bar / 90 MPa / 13053 PSI (Male Tip)

1150 bar / 115 MPa / 16679 PSI (Connected)

The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Material

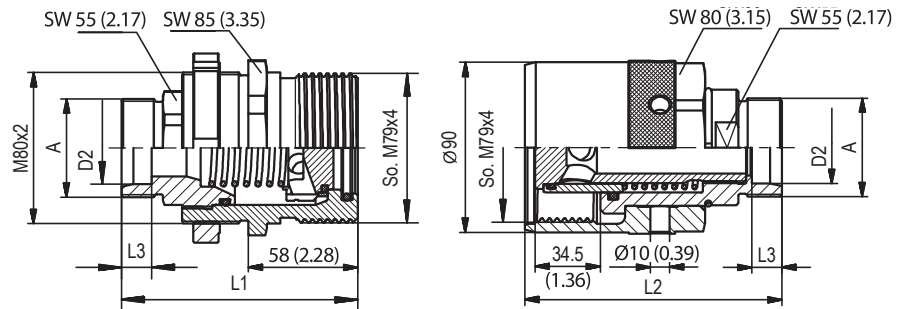
Steel

Surface Finishing

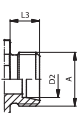
Zinc-Nickel

Standard Seal Material(s)

NBR (Buna-N®), PTFE, PU

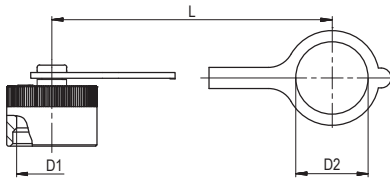


SW: Width across flats. All dimensions in mm (inch).

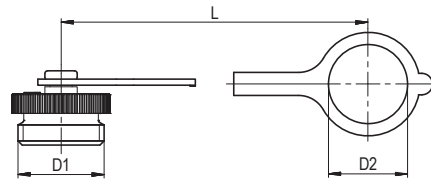
	Port A	Dimensions (^{mm} / _{in})					Female Body	Weight	Male Tip	Weight
		ØD2	L1	L2	L3	L4	VOSWINKEL Part Numbers	(^g / _{oz}) ca.	VOSWINKEL Part Numbers	(^g / _{oz}) ca.
							STAUFF Ordering Codes	per pc.	STAUFF Ordering Codes	per pc.
Male Thread with 24° Conical Bore - Shape W according to DIN 3861										
	M45x2	35L	122	136	16		RH25-1-L3545	2730	RH25-2-L3545	3350
			4.80	5.35	.63		QRC-RH-25-F-35L-S1-W3	6006.00	QRC-RH-25-M-35L-S1-W3	7370.00
	M52x2	42L	122	136	16		RH25-1-L4252	2830	RH25-2-L4252	3350
			4.80	5.35	.63		QRC-RH-25-F-42L-S1-W3	6226.00	QRC-RH-25-M-42L-S1-W3	7370.00
	M52x2	38S	125	136	22		RH25-1-S3852	2855	RH25-2-S3852	3345
			4.92	5.35	.87		QRC-RH-25-F-38S-S1-W3	6281.00	QRC-RH-25-M-38S-S1-W3	7359.00



Series RH/RK ▪ Dust Protection



Dimensions (mm/in)			Material	Dust Cap for Male Tip	
D1	D2	L		VOSWINKEL Part Numbers	STAUFF Ordering Codes
M32x3	36,5	190	Plastic (Colour: Red)	RH08-0-RT001	
	1.44	7.48		QRC-RH-10-DF-37-K-RD	
M36x3	41	190	Plastic (Colour: Red)	RH12-0-RT001	
	1.61	7.48		QRC-RH-12-DF-41-K-RD	
M48x3	55	210	Plastic (Colour: Red)	RH16-0-RT001	
	2.17	8.27		QRC-RH-16-DF-55-K	



Dimensions (mm/in)			Material	Dust Plug for Female Body	
D1	D2	L		VOSWINKEL Part Numbers	STAUFF Ordering Codes
M32x3	29,5	185	Plastic (Colour: Red)	RH08-9-RT001	
	1.16	7.28		QRC-RH-10-DM-30-K-RD	
M36x3	29,5	185	Plastic (Colour: Red)	RH12-9-RT001	
	1.16	7.28		QRC-RH-12-DM-30-K-RD	
M48x3	36,5	190	Plastic (Colour: Red)	RH16-9-RT001	
	1.44	7.48		QRC-RH-16-DM-37-K-RD	



Dimensions (mm/in)			Material	Dust Cap for Male Tip	
D1	D2	L		VOSWINKEL Part Numbers	STAUFF Ordering Codes
So.			Aluminium silver with chain	RH16-0-SI001	
M48x3				QRC-RH-16-DF-CN-W89-SI	
So.			Aluminium silver with chain	RH20-0-SI001	
M54x4				QRC-RH-20-DF-CN-W89-SI	
So.			Aluminium silver with chain	RH25-0-SI001	
M79x4				QRC-RH-25-DF-CN-W89-SI	



Dimensions (mm/in)			Material	Dust Plug for Female Body	
D1	D2	L		VOSWINKEL Part Numbers	STAUFF Ordering Codes
So.			Aluminium silver with chain	RH16-9-SI001	
M48x3				QRC-RH-16-DM-CN-W89-SI	
So.			Aluminium silver with chain	RH20-9-SI001	
M54x4				QRC-RH-20-DM-CN-W89-SI	
So.			Aluminium silver with chain	RH25-9-SI001	
M79x4				QRC-RH-25-DM-CN-W89-SI	

In addition to the standard colours as stated above,
plastic dust caps are also available in blue, green, yellow and black.
Please use the VOSWINKEL codes BL, GN, GE and SW respectively instead of RT.
Please use the STAUFF codes BU, GN, YE and BK respectively instead of RD.

RH/RK

