STAUFF®

STAUFF Quick Release Couplings

Push-to-connect and screw-to-connect couplings for connecting and disconnecting fluid media

Product Catalogue

Version
10/2025

Series HS ▪ Carbon Steel

Product Description

Screw-to-connect couplings of the HS Series from STAUFF consist of a female body with external thread and a male tip with a screw sleeve. The Series is developed for particularly heavy-duty applications for connecting hydraulic lines up to DN38 (1-1/2").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. The coupling is designed to open both valves when connected together and due to their rugged design, higher operating and burst pressures, they are well suited for heavy-duty service conditions in construction machinery.

The Series was developed according to ISO 14541 in the following nominal sizes 06, 10, 12, 16, 19, 25, 38 (1/4" - 1-1/2").

The proven design is suitable for use in heavy construction. Other applications include attachments or equipment using high pressure, high impulse hydraulics, e.g. hydraulic hammers.

Features

- poppet valve
- Zinc-Plating and Thick-Film-Passivation (Chrome III)
- ISO Interchange acc. to ISO 14541
- Connectable up to 33% of working pressure with tools
- Feature: Black O-Ring
  External O-ring as a safety feature to indicate the complete/correct connection of the male tip and female body
  (the O-ring must be covered by the sleeve of the female body)

Applications

Construction Machinery

Top Features

Vibration resistant

Designed for secure connection

HS

Series HS ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Plating and Thick-Film-Passivation (Chrome III)
Standard Seal Material(s)	NBR (Buna-N®) [2]
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Male Tip/Female Body up to 33% of the Working Pressure with Tools
Application	Construction Machinery
ISO Interchange	ISO 14541 (BG 1-6)

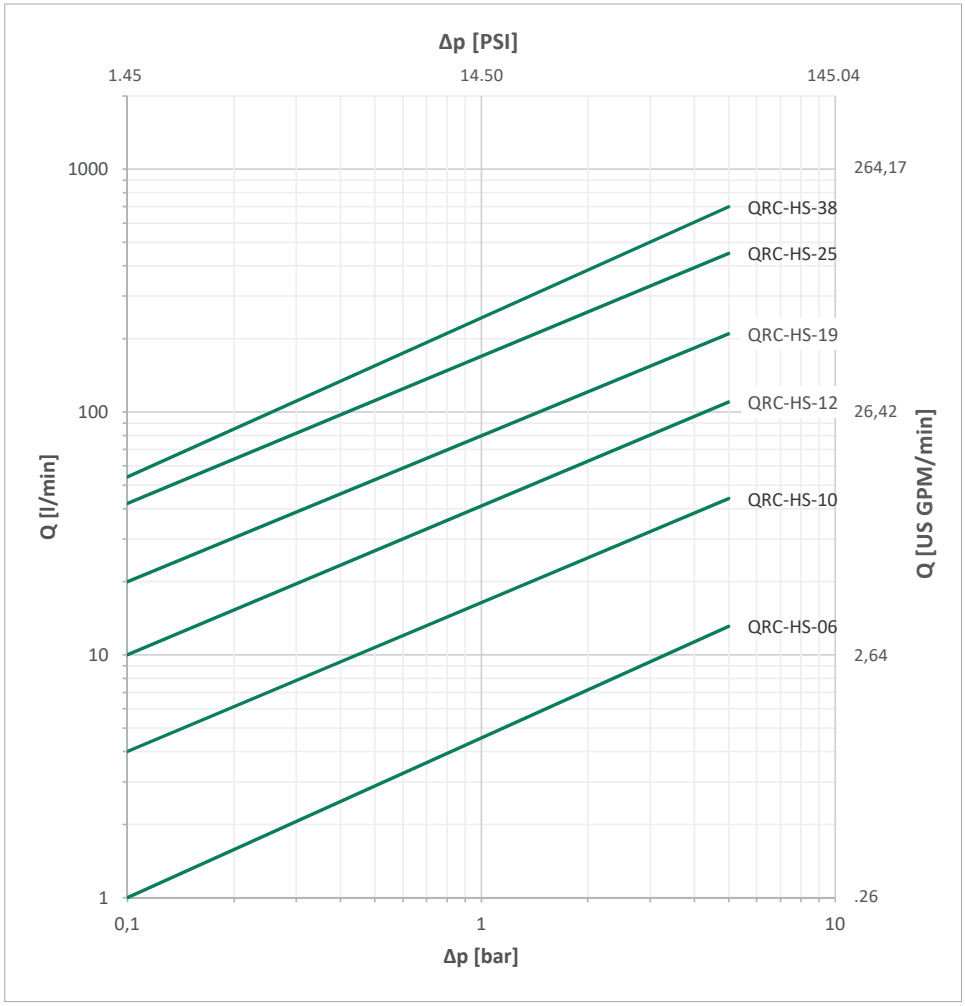
[2] Alternative seal materials are available on request.

Technical Data

Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
HS-06 ("...-HX")	1	1/4"	6,3	20	5.28	450	6527	1800	26107	1400	20305	1400	20305	0,8	.0271
HS-10	2	3/8"	10	35	9.25	450	6527	1600	23206	1750	25382	1550	22481	1,3	.0440
HS-12	3	1/2"	12,5	80	21.13	400	5802	1400	20305	1200	17405	1200	17405	3,1	.1048
HS-19	4	3/4"	19	120	31.70	400	5802	1500	21756	1600	23206	1200	17405	5,6	.1894
HS-25	6	1"	25	160	42.27	300	4351	1180	17114	1500	21756	1100	15954	12,3	.4159
HS-25-...-HX	6	1"	25	160	42.27	350	5076	1180	17114	1500	21756	1100	15954	12,3	.4159
HS-38	8	1 1/2"	38	220	58.12	350	5076	1800	26107	1600	23206	1200	17405	52,3	17.685

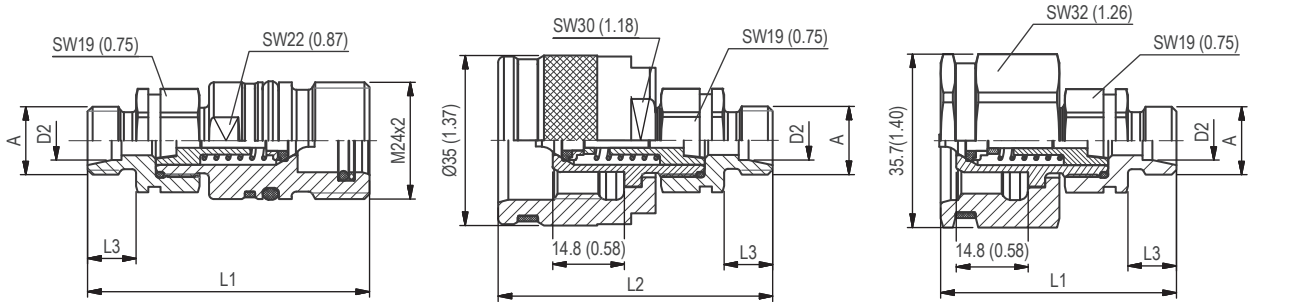
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Flow Characteristics



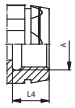
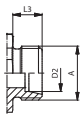
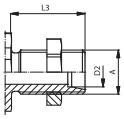
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm^2/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

HS



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

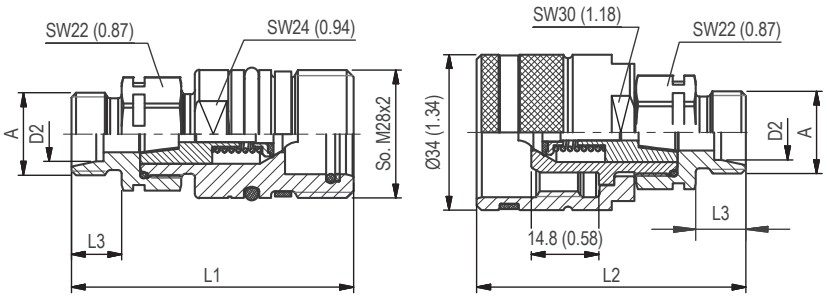
Series HS-06 ▪ BG 1 ▪ Nominal Size 6,3

	Port A	Dimensions ($^{mm}/_{in}$) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight ($^{kg}/_{lbs}$) ca. per 100	Male Tip Ordering Codes	Weight ($^{kg}/_{lbs}$) ca. per 100
	Female Thread according to DIN 3852-2-A - ANSI B 1.20.3									
	G 1/4"		60	59		13	QRC-HS-06-F-G04-BT-W66	12	QRC-HS-06-M-G04-BT-W66	18,20
			2.36	2.32		.51		26.46		40.12
	NPTF 1/4" -18		60	59			QRC-HS-06-F-NF04-BT-W66	12	QRC-HS-06-M-NF04-B-W66	19
			2.36	2.32				26.46		41.89
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M14x1,5	8L	58	57	10		QRC-HS-06-F-08L-BT-W66	12,10	QRC-HS-06-M-08L-B-W66	18,70
			2.28	2.24	.39			26.68		41.23
	Male Thread with 24° Conical Bore - Bulkhead - Shape W according to DIN 3861									
	M14x1,5	8L	73	72	25		QRC-HS-06-F-08LB-BT-W66	13,70	QRC-HS-06-M-08LB-B-W66	20,30
			2.87	2.83	.98			30.20		44.75

For the Version with Hexagonal Sleeve, please add "-HX" behind the Ordering Code.
Available on request with a safety clamp.

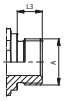
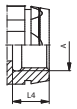
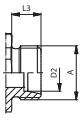
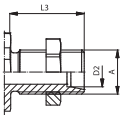
HS

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.



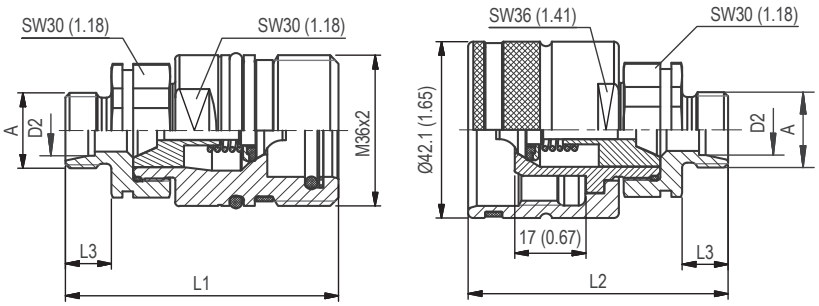
SW: Width across flats. All dimensions in mm (inch).

Series HS-10 ▪ BG 2 ▪ Nominal Size 10

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread according to DIN ISO 8434-1									
	G 3/8"		65	62	12		QRC-HS-10-F-B06-BT-W66	16,90	QRC-HS-10-M-B06-B-W66	18,10
			2.56	2.44	.47			37.26		39.90
	UNF 3/4" -16		67	53	17		QRC-HS-10-F-J08-BT-W66	16	QRC-HS-10-M-J08-B-W66	17,50
			2.65	2.07	.65			35.27		38.58
	Female Thread according to DIN 3852-2-A - ISO 9974-1 - ANSI B 1.20.3									
	G1/4"		64	61		13	QRC-HS-10-F-G04-BT-W66	18	QRC-HS-10-M-G04-B-W66	19,20
			2.52	2.40		.51		39.68		42.33
	G3/8"		64	61		13	QRC-HS-10-F-G06-BT-W66	17,20	QRC-HS-10-M-G06-B-W66	18,40
			2.52	2.40		.51		37.92		40.57
	M16x1,5		64	61		13	QRC-HS-10-F-M16-BT-W66	16,10	QRC-HS-10-M-M16-B-W66	17,40
			2.52	2.40		.51		35.49		38.36
	NPTF 3/8" -18		64	61			QRC-HS-10-F-NF06-BT-W66	17,30	QRC-HS-10-M-NF06-B-W66	18,50
			2.52	2.40				38.14		40.79
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M14x1,5	8L	61	58	10		QRC-HS-10-F-08L-BT-W66	14,40	QRC-HS-10-M-08L-B-W66	15,80
			2.39	2.28	.39			31.75		34.83
	M16x1,5	10L	62	59	11		QRC-HS-10-F-10L-BT-W66	15,80	QRC-HS-10-M-10L-B-W66	16,90
			2.43	2.32	.43			34.83		37.26
	M18x1,5	12L	62	59	11		QRC-HS-10-F-12L-BT-W66	16	QRC-HS-10-M-12L-B-W66	17,20
			2.43	2.32	.43			35.27		37.92
	M16x1,5	8S	63	60	12		QRC-HS-10-F-08S-BT-W66	16,30	QRC-HS-10-M-08S-B-W66	17,40
			2.47	2.36	.47			35.94		38.36
	M18x1,5	10S	63	60	12		QRC-HS-10-F-10S-BT-W66	16,40	QRC-HS-10-M-10S-B-W66	17,60
			2.47	2.36	.47			36.16		38.80
	M20x1,5	12S	63	60	12		QRC-HS-10-F-12S-BT-W66	15,40	QRC-HS-10-M-12S-B-W66	17,90
			2.47	2.36	.47			33.95		39.46
	Male Thread with 24° Conical Bore - Bulkhead - Shape W according to DIN 3861									
	M14x1,5	8L	76	73	25		QRC-HS-10-F-08LB-BT-W66	17,20	QRC-HS-10-M-08LB-B-W66	17,60
			2.98	2.87	.98			37.92		38.80
	M16x1,5	10L	77	74	26		QRC-HS-10-F-10LB-BT-W66	18,70	QRC-HS-10-M-10LB-B-W66	17
			3.02	2.91	1.02			41.23		37.48
	M22x1,5	15L	78	75	27		QRC-HS-10-F-15LB-BT-W66	23,10	QRC-HS-10-M-15LB-BT-W66	17,50
			3.06	2.95	1.06			50.93		38.58
	M16x1,5	08S	78	5	27		QRC-HS-10-F-08SB-BT-W66	16	QRC-HS-10-M-08SB-BT-W66	17
			3.06	.20	1.06			35.27		37.48
	M18x1,5	10S	78	75	27		QRC-HS-10-F-10SB-BT-W66	17,50	QRC-HS-10-M-10SB-B-W66	17,50
			3.06	2.95	1.06			38.58		38.58
	M20x1,5	12S	78	75	27		QRC-HS-10-F-12SB-BT-W66	31	QRC-HS-10-M-12SB-B-W66	17,10
			3.06	2.95	1.06			68.34		37.70

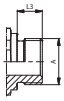
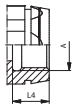
Available on request with a safety clamp and Hexagonal Sleeve.

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

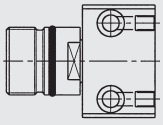


SW: Width across flats. All dimensions in mm (inch).

Series HS-12 ▪ BG 3 ▪ Nominal Size 12,5

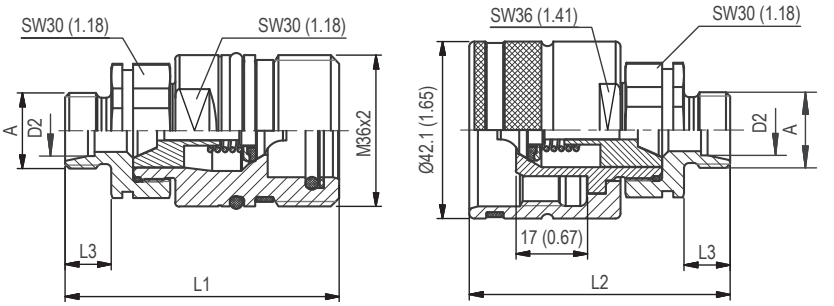
	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread according to DIN 3852-2 - ISO 9974-3									
	G 3/8"		69	66	12		QRC-HS-12-F-B06-BT-W66	28,70	QRC-HS-12-M-B06-B-W66	26,70
			2.72	2.60	.47			63.27		58.86
	G 1/2"		69	66	12		QRC-HS-12-F-B08-BT-W66	29,50	QRC-HS-12-M-B08-B-W66	27,10
			2.72	2.60	.47			65.04		59.75
	M22x1,5		69	66	12		QRC-HS-12-F-M22M-BT-W66	29,60	QRC-HS-12-M-M22M-B-W66	26,20
			2.72	2.60	.47			65.26		57.76
	Female Thread according to DIN 3852-2-A - ISO 6149-1 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G3/8"		67	64		15	QRC-HS-12-F-G06-BT-W66	30,80	QRC-HS-12-M-G06-B-W66	28,80
			2.64	2.52		.59		67.90		63.49
	G1/2"		67	64		15	QRC-HS-12-F-G08-BT-W66	31,90	QRC-HS-12-M-G08-B-W66	29,90
			2.64	2.52		.59		70.33		65,92
	M18x1,5		67	64		15	QRC-HS-12-F-M18OR-BT-W66	30,20	QRC-HS-12-M-M18OR-B-W66	28,20
			2.64	2.52		.59		66.58		62.17
	M22x1,5		67	64		15	QRC-HS-12-F-M22OR-BT-W66	29,20	QRC-HS-12-M-M22OR-B-W66	26,60
			2.64	2.52		.59		64.37		58.64
	NPTF 1/2" -14		70	67			QRC-HS-12-F-NF08-BT-W66	29,60	QRC-HS-12-M-NF08-B-W66	27,40
			2.76	2.64				65.26		60.41
	UNF 7/8" -14		73	70		18	QRC-HS-12-F-U10-BT-W66	29,20	QRC-HS-12-M-U10-B-W66	27
			2.87	2.76		.71		64.37		59.52

Available on request with a safety clamp and Hexagonal Sleeve.



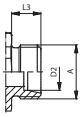
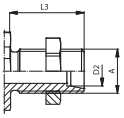
The mating flange is also available for the screw-type carrier Type HS-12, size 1/2“, 410 bar (6000 PSI).

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

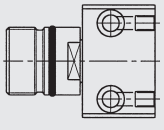


SW: Width across flats. All dimensions in mm (inch).

Series HS-12 ▪ BG 3 ▪ Nominal Size 12,5

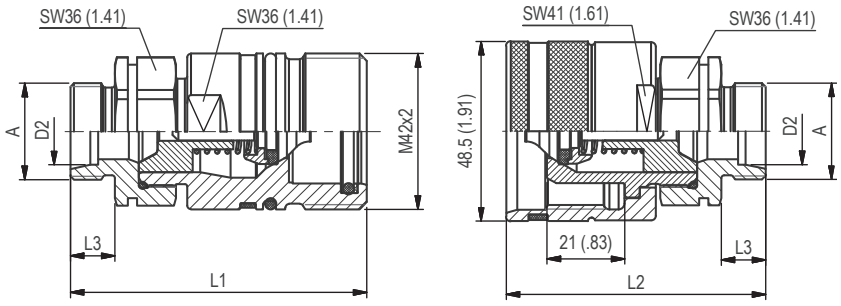
	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M14x1,5	8L	64	61	10		QRC-HS-12-F-08L-BT-W66	26,40	QRC-HS-12-M-08L-B-W66	25,40
			2.53	2.40	.39			58.20		56.00
	M16x1,5	10L	65	62	11		QRC-HS-12-F-10L-BT-W66	27,70	QRC-HS-12-M-10L-B-W66	25,70
			2.57	2.44	.43			61.07		56.66
	M18x1,5	12L	65	62	11		QRC-HS-12-F-12L-BT-W66	27,80	QRC-HS-12-M-12L-B-W66	25,80
			2.57	2.44	.43			61.29		56.88
	M22x1,5	15L	66	63	12		QRC-HS-12-F-15L-BT-W66	28,40	QRC-HS-12-M-15L-B-W66	26,40
			2.61	2.48	.47			62.61		58.20
	M26x1,5	18L	66	63	12		QRC-HS-12-F-18L-BT-W66	28,40	QRC-HS-12-M-18L-B-W66	26,40
			2.61	2.48	.47			62.61		58.20
	M18x1,5	10S	66	63	12		QRC-HS-12-F-10S-BT-W66	28,40	QRC-HS-12-M-10S-B-W66	26,40
			2.61	2.48	.47			62.61		58.20
	M20x1,5	12S	66	63	12		QRC-HS-12-F-12S-BT-W66	28,40	QRC-HS-12-M-12S-B-W66	26,40
			2.61	2.48	.47			62.61		58.20
	M22x1,5	14S	68	65	14		QRC-HS-12-F-14S-BT-W66	29,20	QRC-HS-12-M-14S-B-W66	27,20
			2.69	2.56	.55			64.37		59.97
	M24x1,5	16S	68	65	14		QRC-HS-12-F-16S-BT-W66	29,20	QRC-HS-12-M-16S-B-W66	27,20
			2.69	2.56	.55			64.37		59.97
	M30x2	20S	70	67	16		QRC-HS-12-F-20S-BT-W66	28,40	QRC-HS-12-M-20S-B-W66	25,70
			2.76	2.64	.63			62.61		56.66
	Male Thread with 24° Conical Bore - Bulkhead - Shape W according to DIN 3861									
	M14x1,5	08L	80	77	26		QRC-HS-12-F-08LB-BT-W66	28,60	QRC-HS-12-M-08LB-B-W66	26,20
			3.16	3.03	1.02			63.05		57.76
	M16x1,5	10L	80	77	26		QRC-HS-12-F-10LB-BT-W66	30,70	QRC-HS-12-M-10LB-B-W66	27,50
			3.16	3.03	1.02			67.68		60.63
	M18x1,5	12L	84	81	30		QRC-HS-12-F-12LB-BT-W66	30,60	QRC-HS-12-M-12LB-B-W66	26,80
			3.31	3.19	1.18			67.46		59.08
	M22x1,5	15L	81	78	27		QRC-HS-12-F-15LB-BT-W66	31,40	QRC-HS-12-M-15LB-B-W66	28,20
			3.20	3.07	1.06			69.23		62.17
	M26x1,5	18L	81	78	27		QRC-HS-12-F-18LB-BT-W66	36,60	QRC-HS-12-M-18LB-B-W66	34,60
			3.20	3.07	1.06			80.69		76.28
	M18x1,5	10S	80	77	26		QRC-HS-12-F-10SB-BT-W66	30,70	QRC-HS-12-M-10SB-B-W66	28
			3.16	3.03	1.02			67.68		61.73
	M20x1,5	12S	81	78	27		QRC-HS-12-F-12SB-BT-W66	31,20	QRC-HS-12-M-12SB-B-W66	28,80
			3.20	3.07	1.06			68.78		63.49
	M22x1,5	14S	83	80	29		QRC-HS-12-F-14SB-BT-W66	32,80	QRC-HS-12-M-14SB-B-W66	30,40
			3.28	3.15	1.14			72.31		67.02
	M24x1,5	16S	83	80	29		QRC-HS-12-F-16SB-BT-W66	34,20	QRC-HS-12-M-16SB-B-W66	31,60
			3.28	3.15	1.14			75.40		69.67

Available on request with a safety clamp and Hexagonal Sleeve.



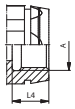
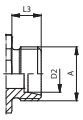
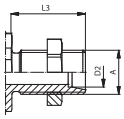
The mating flange is also available for the screw-type carrier Type HS-12, size 1/2“, 410 bar (6000 PSI).

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.



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

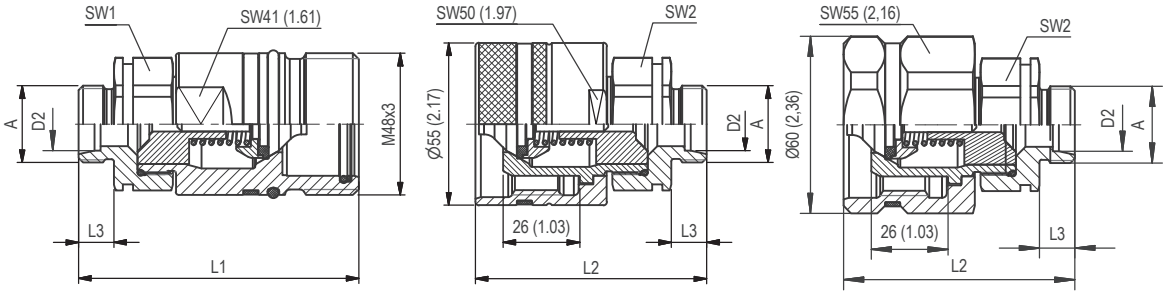
Series HS-19 ▪ BG 4 ▪ Nominal Size 19

	Port A	Dimensions ($^{mm}/_{in}$) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight ($^{kg}/_{lbs}$) ca. per 100	Male Tip Ordering Codes	Weight ($^{kg}/_{lbs}$) ca. per 100
	Female Thread according to DIN 3852-2-A - ISO 9974-1 - ANSI B 1.20.3									
	G1/2"		86	75		19	QRC-HS-19-F-G08-BT-W66	52,60	QRC-HS-19-M-G08-B-W66	50,40
			3.39	2.95		.75		115.96		111.11
	G3/4"		86	75		19	QRC-HS-19-F-G12-BT-W66	63,60	QRC-HS-19-M-G12-B-W66	47,60
			3.39	2.95		.75		140.21		104.94
	M22x1,5		86	75		19	QRC-HS-19-F-M22-BT-W66	55	QRC-HS-19-M-M22-B-W66	49
			3.39	2.95		.75		121.25		108.03
	NPTF 3/4" -14		86	75			QRC-HS-19-F-NF12-BT-W66	55	QRC-HS-19-M-NF12-B-W66	47,60
			3.39	2.95				121.25		104.94
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M18x1,5	12L	79	69	11		QRC-HS-19-F-12L-BT-W66	46	QRC-HS-19-M-12L-B-W66	40,80
			3.11	2.72	.43			101.41		89.95
	M22x1,5	15L	80	70	12		QRC-HS-19-F-15L-BT-W66	46,60	QRC-HS-19-M-15L-B-W66	41,30
			3.15	2.76	.47			102.74		91.05
	M26x1,5	18L	80	70	12		QRC-HS-19-F-18L-BT-W66	47,90	QRC-HS-19-M-18L-B-W66	41,90
			3.15	2.76	.47			105.60		92.37
	M30x2	22L	82	72	14		QRC-HS-19-F-22L-BT-W66	49,20	QRC-HS-19-M-22L-B-W66	43,10
			3.23	2.83	.55			108.47		95.02
	M24x1,5	16S	82	72	14		QRC-HS-19-F-16S-BT-W66	47,40	QRC-HS-19-M-16S-B-W66	40,20
			3.23	2.83	.55			104.50		88.63
	M30x2	20S	84	74	16		QRC-HS-19-F-20S-BT-W66	50	QRC-HS-19-M-20S-B-W66	44
			3.31	2.91	.63			110.23		97
	Male Thread with 24° Conical Bore - Bulkhead - Shape W according to DIN 3861									
	M18x1,5	12L	94	84	26		QRC-HS-19-F-12LB-BT-W66	48,80	QRC-HS-19-M-12LB-B-W66	42,20
			3.70	3.31	1.02			107.59		93.04
	M22x1,5	15L	95	85	27		QRC-HS-19-F-15LB-BT-W66	51	QRC-HS-19-M-15LB-B-W66	43,80
			3.74	3.35	1.06			112.44		96.56
	M26x1,5	18L	95	85	27		QRC-HS-19-F-18LB-BT-W66	55,70	QRC-HS-19-M-18LB-B-W66	47,50
			3.74	3.35	1.06			122.80		104.72
	M30x2	22L	104	94	36		QRC-HS-19-F-22LB-BT-W66	59,40	QRC-HS-19-M-22LB-B-W66	52,40
			4.09	3.70	1.42			130.95		115.52
	M24x1,5	16S	97	87	29		QRC-HS-19-F-16SB-BT-W66	53,40	QRC-HS-19-M-16SB-B-W66	46,20
			3.82	3.43	1.14			117.73		101.85
	M30x2	20S	104	94	36		QRC-HS-19-F-20SB-BT-W66	62,40	QRC-HS-19-M-20SB-B-W66	56,50
			4.09	3.70	1.42			137.57		124.56

Available on request with a safety clamp and Hexagonal Sleeve.

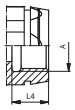
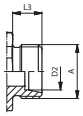
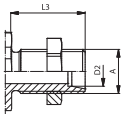
HS

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.



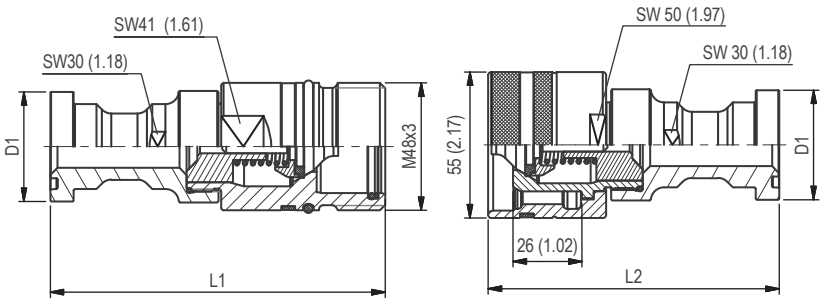
SW: Width across flats. All dimensions in mm (inch).

Series HS-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2-A - ANSI B 1.20.3											
	G3/4"		98	81		19	41	41	QRC-HS-25-F-G12-BT-W66	78,10	QRC-HS-25-M-G12-B-W66	68,80
			3.86	3.19		.75	1.61	1.61		172.18		151.68
	G1"		98	81		19	41	41	QRC-HS-25-F-G16-BT-W66	73,80	QRC-HS-25-M-G16-B-W66	64,50
			3.86	3.19		.75	1.61	1.61		162.70		142.20
	NPTF 1" -11 1/2		98	81			41	41	QRC-HS-25-F-NF16-BT-W66	78	QRC-HS-25-M-NF16-B-W66	60,10
			3.86	3.19			1.61	1.61		171.96		132.50
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861											
	M26x1,5	18L	95	78	12		41	41	QRC-HS-25-F-18L-BT-W66	70,90	QRC-HS-25-M-18L-B-W66	61,60
			3.74	3.07	.47		1.61	1.61		156.31		135.80
	M30x2	22L	97	80	14		41	41	QRC-HS-25-F-22L-BT-W66	71,50	QRC-HS-25-M-22L-B-W66	62,20
			3.82	3.15	.55		1.61	1.61		157.63		137.13
	M36x2	28L	97	80	14		41	41	QRC-HS-25-F-28L-BT-W66	72	QRC-HS-25-M-28L-B-W66	67,20
			3.82	3.15	.55		1.61	1.61		158.73		148.15
	M45x2	35L	99	82	16		46	46	QRC-HS-25-F-35L-BT-W66	80,50	QRC-HS-25-M-35L-B-W66	71,30
			3.90	3.23	.63		1.81	1.81		177.47		157.19
	M30x2	20S	99	82	16		41	41	QRC-HS-25-F-20S-BT-W66	73,10	QRC-HS-25-M-20S-B-W66	63,90
			3.90	3.23	.63		1.61	1.61		161.16		140.88
	M36x2	25S	101	84	18		41	41	QRC-HS-25-F-25S-BT-W66	75,30	QRC-HS-25-M-25S-B-W66	66
			3.98	3.31	.71		1.61	1.61		166.01		145.51
	M42x2	30S	103	86	20		41	41	QRC-HS-25-F-30S-BT-W66	87,10	QRC-HS-25-M-30S-B-W66	65
			4.06	3.39	.79		1.61	1.61		192.02		143.30
	M52x2	38S	105	88	22		55	55	QRC-HS-25-F-38S-BT-W66	108	QRC-HS-25-M-38S-B-W66	90,10
			4.13	3.46	.87		2.17	2.17		238.10		198.64
	Male Thread with 24° Conical Bore - Bulkhead - Shape W according to DIN 3861											
	M22x1,5	15L	110	93	27		41	41	QRC-HS-25-F-15LB-BT-W66	82	QRC-HS-25-M-15LB-B-W66	62
			4.33	3.66	1.06		1.61	1.61		180.78		136.69
	M26x1,5	18L	115	98	32		41	41	QRC-HS-25-F-18LB-BT-W66	76,60	QRC-HS-25-M-18LB-B-W66	63,80
			4.53	3.86	1.26		1.61	1.61		168.87		140.65
	M30x2	22L	117	100	34		41	41	QRC-HS-25-F-22LB-BT-W66	86,10	QRC-HS-25-M-22LB-B-W66	65
			4.61	3.94	1.34		1.61	1.61		189.82		143.30
	M36x2	28L	117	100	34		41	41	QRC-HS-25-F-28LB-BT-W66	89,90	QRC-HS-25-M-28LB-B-W66	69
			4.61	3.94	1.34		1.61	1.61		198.20		152.12
	M30x2	20S	121	104	38		41	41	QRC-HS-25-F-20SB-BT-W66	94	QRC-HS-25-M-20SB-B-W66	70,60
			4.76	4.09	1.50		1.61	1.61		207.23		155.65
	M36x2	25S	121	104	38		41	41	QRC-HS-25-F-25SB-BT-W66	94,70	QRC-HS-25-M-25SB-B-W66	74
			4.76	4.09	1.50		1.61	1.61		208.78		163.14
	M42x2	30S	123	106	40		46	46	QRC-HS-25-F-30SB-BT-W66	104	QRC-HS-25-M-30SB-B-W66	85
			4.84	4.17	1.57		1.81	1.81		229.28		187.39
	M52x2	38S	123	106	40		55	55	QRC-HS-25-F-38SB-BT-W66	140,40	QRC-HS-25-M-38SB-B-W66	85
			4.84	4.17	1.57		2.17	2.17		309.53		187.39

For the Version with Hexagonal Sleeve, please add "-HX" behind the Ordering Code.
Available on request with a safety clamp.

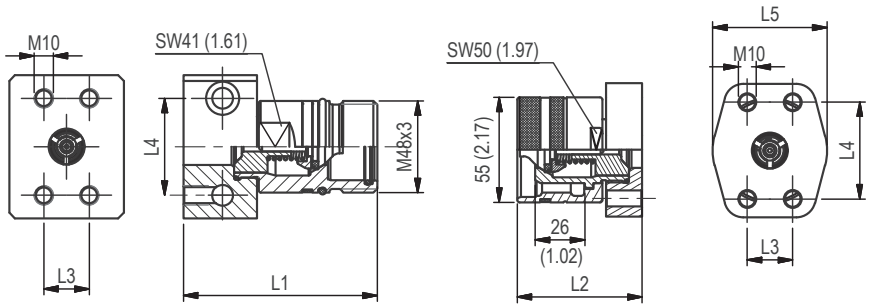
Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.



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

Series HS-25 ▪ BG 6 ▪ Nominal Size 25

Flange	Dimensions (mm/in) ØD1	L1	L2	L3	L4	L5	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
3/4"	41,3	127	110				QRC-HS-25-F-F612-BT-W66	85,20	QRC-HS-25-M-F612-B-W66	76
		1.63	5.00					187.83		167.55
1"	47,6	129	112				QRC-HS-25-F-F616-BT-W66	93,20	QRC-HS-25-M-F616-B-W66	83,90
		1.87	5.08					205.47		184.97

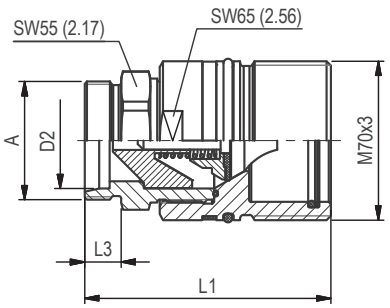


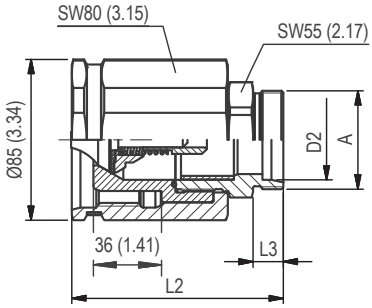
SW: Width across flats. All dimensions in mm (inch).

Flange	Dimensions (mm/in) ØD2	L1	L2	L3	L4	L5	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
3/4"		102	65	23,8	50,8	60	QRC-HS-25-F-C612M-B-W66-700514	163,10	QRC-HS-25-M-C612M-B-W66	87,70
		4.02	2.56	.94	2.00	2.36		359.57		193.35

HS

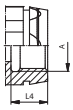
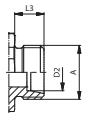
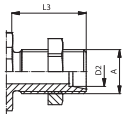
Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.





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

Series HS-38 ▪ BG 8 ▪ Nominal Size 38

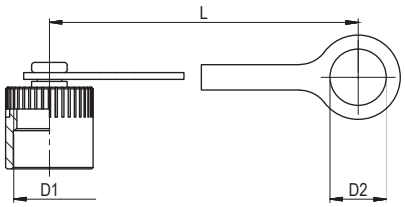
	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2-A / Innengewinde DIN 3852-2-A									
	G 1" 1/4		125	131		29	QRC-HS-38-F-G20-BT-W66	190,70	QRC-HS-38-M-G20-B-W66	276,60
			4.92	5.16		1.14		420.42		609.80
	G 1" 1/2		127	134		31	QRC-HS-38-F-G24-BT-W66	184,90	QRC-HS-38-M-G24-B-W66	270,80
			5.00	5.28		1.22		407.63		597.01
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M45x2	35L	105	112	16		QRC-HS-38-F-35L-BT-W66	156	QRC-HS-38-M-35L-B-W66	209
			4.11	4.39	.63			343.92		460.77
	M52x2	42L	105	112	16		QRC-HS-38-F-42L-BT-W66	162	QRC-HS-38-M-42L-B-W66	215
			4.11	4.39	.63			357.15		473.99
	M42x2	30S	112	119	20		QRC-HS-38-F-30S-BT-W66	157,20	QRC-HS-38-M-30S-B-W66	209,20
			4.41	4.69	.79			346.57		461.21
	M52x2	38S	112	118	22		QRC-HS-38-F-38S-BT-W66	162,40	QRC-HS-38-M-38S-B-W66	215,30
			4.41	4.65	.87			358.03		474.66
	Male Thread with 24° Conical Bore - Bulkhead - Shape W according to DIN 3861									
	M45x2	35L	125	132	36		QRC-HS-38-F-35LB-BT-W66	173	QRC-HS-38-M-35LB-B-W66	234
			4.90	5.18	1.42			381.40		515.88
	M52x2	42L	129	132	36		QRC-HS-38-F-42LB-BT-W66	172,50	QRC-HS-38-M-42LB-B-W66	233,50
			5.08	5.20	1.42			380.30		514.78
	M42x2	30S	133	140	40		QRC-HS-38-F-30SB-BT-W66	182,40	QRC-HS-38-M-30SB-B-W66	268,30
			5.24	5.51	1.57			402.12		591.50
	M52x2	38S	132	139	40		QRC-HS-38-F-38SB-BT-W66	173	QRC-HS-38-M-38SB-B-W66	279,30
			5.20	5.47	1.57			381.40		615.75

Available on request with a safety clamp.

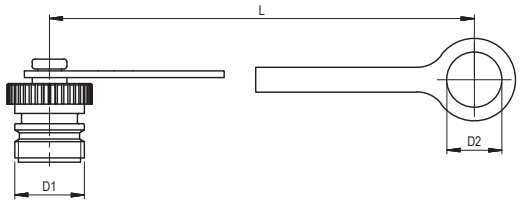
HS

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

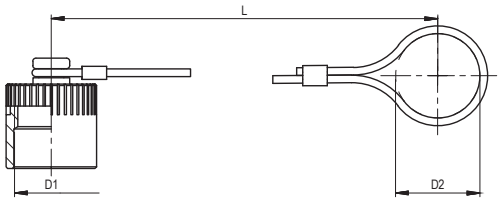
Series HS ▪ Dust Protection



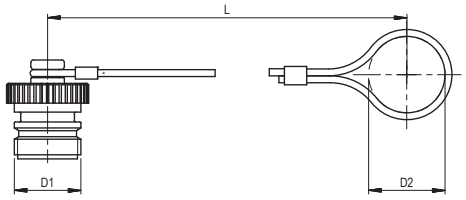
Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
M24x2	19 .75	180 7.09	Plastic (Colour: Red)	QRC-HS-06-DF-19-K-RD
M28x2	23 .91	180 7.09	Plastic (Colour: Red)	QRC-HS-10-DF-23-K-RD
M36x2	29,5 1.16	185 7.28	Plastic (Colour: Red)	QRC-HS-12-DF-30-K-RD
M42x2	36,5 1.44	190 7.48	Plastic (Colour: Red)	QRC-HS-19-DF-37-K-RD
M48x3	41 1.61	190 7.48	Plastic (Colour: Red)	QRC-HS-25-DF-41-K-RD
M70x3	55 2.17	201 7.91	Plastic (Colour: Red)	QRC-HS-38-DF-55-K-RD



Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
M24x2	19 .75	180 7.09	Plastic (Colour: Red)	QRC-HS-06-DM-19-K-RD
M28x2	23 .91	180 7.09	Plastic (Colour: Red)	QRC-HS-10-DM-23-K-RD
M36x2	29,5 1.16	185 7.28	Plastic (Colour: Red)	QRC-HS-12-DM-30-K-RD
M42x2	36,5 1.44	190 7.48	Plastic (Colour: Red)	QRC-HS-19-DM-37-K-RD
M48x3	41 1.61	190 7.48	Plastic (Colour: Red)	QRC-HS-25-DM-41-K-RD
M70x3	55 2.17	201 7.91	Plastic (Colour: Red)	QRC-HS-38-DM-55-K-RD



Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
M24x2			Aluminium with steel cable	QRC-HS-06-DF-19-W89-SI
M28x2			Aluminium with steel cable	QRC-HS-10-DF-23-W89-SI
M36x2			Aluminium with steel cable	QRC-HS-12-DF-30-W89-SI
M42x2			Aluminium with steel cable	QRC-HS-19-DF-37-W89-SI
M48x3			Aluminium with steel cable	QRC-HS-25-DF-41-W89-SI
M70x3			Aluminium with steel cable	QRC-HS-38-DF-55-W89-SI



Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
M24x2			Aluminium with steel cable	QRC-HS-06-DM-19-W89-SI
M28x2			Aluminium with steel cable	QRC-HS-10-DM-23-W89-SI
M36x2			Aluminium with steel cable	QRC-HS-12-DM-30-W89-SI
M42x2			Aluminium with steel cable	QRC-HS-19-DM-37-W89-SI
M48x3			Aluminium with steel cable	QRC-HS-25-DM-41-W89-SI
M70x3			Aluminium with steel cable	QRC-HS-38-DM-55-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 color codes BU, GN, YE and BK respectively instead of RD.

HS

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HS ▪ Stainless Steel

Product Description

Screw-to-connect couplings of the HS Series made of stainless steel from STAUFF consist of a female body with external thread and a male tip with a screw sleeve. The Series is developed for particularly heavy-duty applications for connecting hydraulic lines up to DN38 (1-1/2").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. The coupling is designed to open both valves when connected together and due to their rugged design, higher operating and burst pressures, they are well suited for heavy-duty service conditions in construction machinery.

The Series was developed according to ISO 14541 in the following nominal sizes 06, 10, 12, 19, 25, 38 (1/4" - 1-1/2").

The proven design is suitable for use in heavy construction. Other applications include attachments or equipment using high pressure, high impulse hydraulics, e.g. hydraulic hammers.

Features

- poppet valve
- Coupling made of stainless steel
- ISO Interchange acc. to ISO 14541
- Connectable up to 33% of working pressure with tools
- Self-locking connecting thread
- Feature: Black O-Ring
  External O-ring as a safety feature to indicate the complete/correct connection of the male tip and female body
  (the O-ring must be covered by the sleeve of the female body)

Applications

Agricultural and Forestry Machinery

Construction Machinery

Industrial Hydraulic

Top Features

Vibration resistant

Designed for secure connection

HS

Series HS ▪ Stainless Steel

Material	Stainless Steel V4A (AISI 316)
Surface Finishing	-
Standard Seal Material(s)	FKM (Viton®) [2]
Working Temperature	-25° C ... +200° C / -13° F ... +392° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Male Tip/Female Body up to 33% of the Working Pressure with Tools
Application	Agricultural and Forestry Machinery, Construction Machinery, Industrial Hydraulic
ISO Interchange	ISO 14541 (BG 1-6)

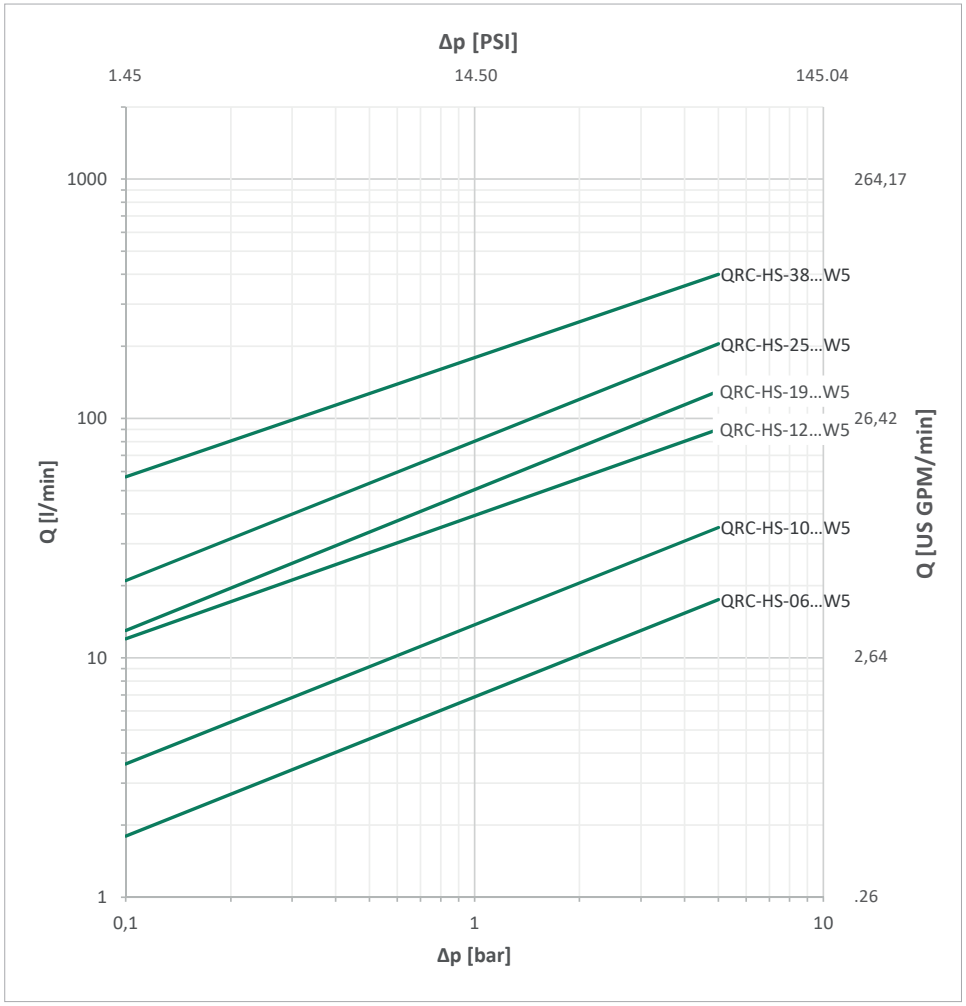
[2] Alternative seal materials are available on request.

Technical Data

Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure						Spillage	
								Connected		Female Body		Male Tip			
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
HS-06	1	1/4"	6,3	17	4.49	300	4351	1200	17405	1200	17405	1200	17405	0,8	.0271
HS-10	2	3/8"	10	30	7.93	250	3626	2400	34809	1600	23206	1450	21031	1,9	.0642
HS-12	3	1/2"	12,5	80	21.13	250	3626	2150	31183	1420	20595	1350	19580	2,7	.0913
HS-19	4	3/4"	19 (20)	190	50.19	150	2176	1400	20305	1100	15954	700	10153	9,3	.3145
HS-25	6	1"	25	280	73.97	150	2176	1350	19580	1100	15954	800	11603	16	.5410
HS-38	8	1 1/2''	38	350	92.46	100	1450	400	5802	400	5802	400	5802	30	10.144

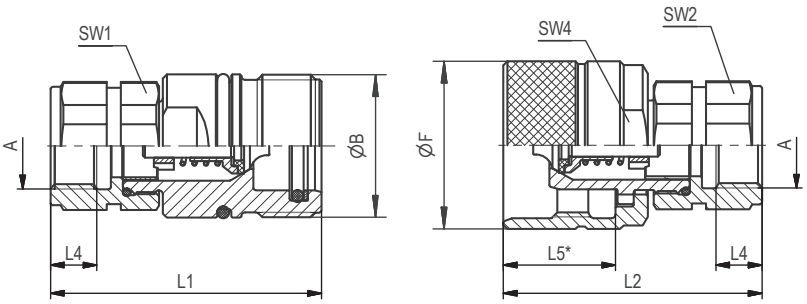
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Flow Characteristics



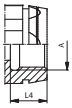
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

HS

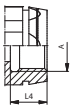


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HS-12.
* Insertion Female Body.

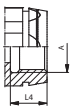
Series HS-06 ▪ BG 1 ▪ Nominal Size 6,3

	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 1/4"	M24x2	30	59,1	58	12	25,1	19	19	27	QRC-HS-06-F-G04-VT-W5	12,20	QRC-HS-06-M-G04-V-W5	13
			1.18	2.33	2.28	.47	.99	.75	.75	1.06		26.90		28.66

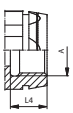
Series HS-10 ▪ BG 2 ▪ Nominal Size 10

	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 3/8"	M28x2	34	64,5	62	12	26,5	22	22	30	QRC-HS-10-F-G06-VT-W5	16,30	QRC-HS-10-M-G06-V-W5	17,40
			1.34	2.54	2.44	.47	1.04	.87	.87	1.18		35.94		38.36

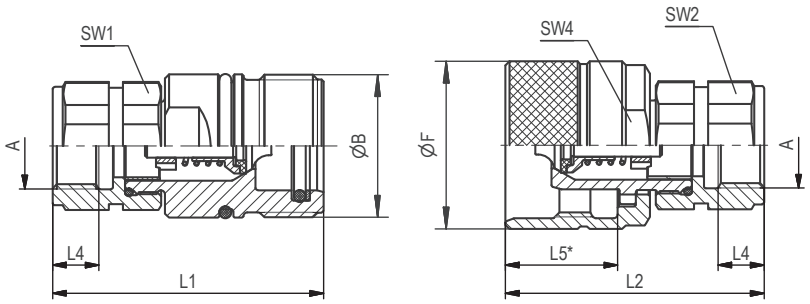
Series HS-12 ▪ BG 3 ▪ Nominal Size 12,5

	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 3/8"	M36x2	41,8	67	63	12	28	30	30	38	QRC-HS-12-F-G06-VT-W5	33,10	QRC-HS-12-M-G06-V-W5	30,50
			1.64	2.64	2.48	.47	1.1	1.18	1.18	1.49		72.97		67.24
	G 1/2"	M36x2	41,8	67	63	12	28	30	30	38	QRC-HS-12-F-G08-VT-W5	31,20	QRC-HS-12-M-G08-V-W5	28,10
			1.64	2.64	2.48	.47	1.1	1.18	1.18	1.49		68.78		61.95

Series HS-19 ▪ BG 4 ▪ Nominal Size 19

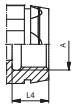
	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 3/4"	M42x2	48	82	75	16	21	36	36	41	QRC-HS-19-F-G12-VT-W5	51,10	QRC-HS-19-M-G12-V-W5	44,10
			1.89	3.23	2.95	.63	.83	1.42	1.42	1.61		112.66		97.22

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

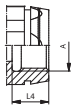


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HS-12.
* Insertion Female Body.

Series HS-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 3/4"	M48x3	55	95	78,5	16	35,5	41	16	50	QRC-HS-25-F-G12-VT-W5	74,80	QRC-HS-25-M-G12-V-W5	65,10
			2.16	3.74	3.09	.63	1.40	1.61	.63	1.97		164.91		143.52
	G 1"	M48x3	55	95	78,5	18	35,5	41	18	50	QRC-HS-25-F-G16-VT-W5	71,30	QRC-HS-25-M-G16-V-W5	61,50
			2.16	3.74	3.09	.71	1.40	1.61	.71	1.97		157.19		135.58

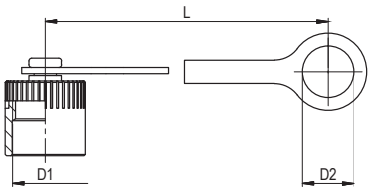
Series HS-38 ▪ BG 8 ▪ Nominal Size 38

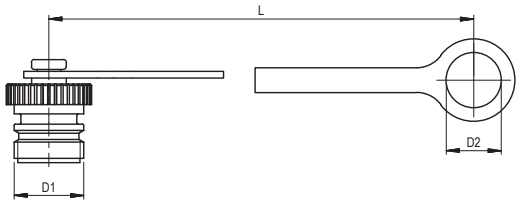
	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 1 1/4"	M70x3	80	116	121	20	44	60	20	65	QRC-HS-38-F-G20-VT-W5	180,20	QRC-HS-38-M-G20-V-W5	235
			3.12	4.57	4.76	.79	1.73	2.36	.79	2.56		397.27		518.09
	G 1 1/2"	M70x3	80	116	121	22	44	60	22	65	QRC-HS-38-F-G24-VT-W5	173	QRC-HS-38-M-G24-V-W5	227,80
			3.12	4.57	4.76	.87	1.73	2.36	.87	2.56		381.40		502,21

HS

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

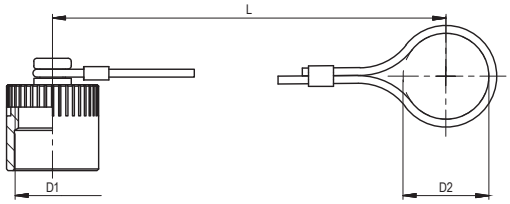
Series HS ▪ Dust Protection

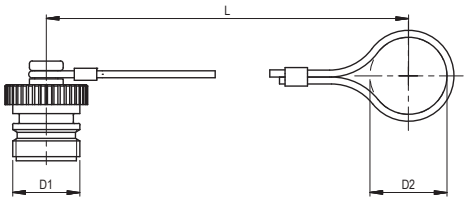




Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
M24x2	19 .75	180 7.09	Plastic (Colour: Red)	**QRC-HS-06-DF-19-K-RD**
M28x2	23 .91	180 7.09	Plastic (Colour: Red)	**QRC-HS-10-DF-23-K-RD**
M36x2	29,5 1.16	185 7.28	Plastic (Colour: Red)	**QRC-HS-12-DF-30-K-RD**
M42x2	36,5 1.44	190 7.48	Plastic (Colour: Red)	**QRC-HS-19-DF-37-K-RD**
M48x3	41 1.61	190 7.48	Plastic (Colour: Red)	**QRC-HS-25-DF-41-K-RD**
M70x3	55 2.17	201 7.91	Plastic (Colour: Red)	**QRC-HS-38-DF-55-K-RD**

Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
M24x2	19 .75	180 7.09	Plastic (Colour: Red)	**QRC-HS-06-DM-19-K-RD**
M28x2	23 .91	180 7.09	Plastic (Colour: Red)	**QRC-HS-10-DM-23-K-RD**
M36x2	29,5 1.16	185 7.28	Plastic (Colour: Red)	**QRC-HS-12-DM-30-K-RD**
M42x2	36,5 1.44	190 7.48	Plastic (Colour: Red)	**QRC-HS-19-DM-37-K-RD**
M48x3	41 1.61	190 7.48	Plastic (Colour: Red)	**QRC-HS-25-DM-41-K-RD**
M70x3	55 2.17	201 7.91	Plastic (Colour: Red)	**QRC-HS-38-DM-55-K-RD**





Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
M24x2			Aluminium with steel cable	**QRC-HS-06-DF-19-W89-SI**
M28x2			Aluminium with steel cable	**QRC-HS-10-DF-23-W89-SI**
M36x2			Aluminium with steel cable	**QRC-HS-12-DF-30-W89-SI**
M42x2			Aluminium with steel cable	**QRC-HS-19-DF-37-W89-SI**
M48x3			Aluminium with steel cable	**QRC-HS-25-DF-41-W89-SI**
M70x3			Aluminium with steel cable	**QRC-HS-38-DF-55-W89-SI**

Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
M24x2			Aluminium with steel cable	**QRC-HS-06-DM-19-W89-SI**
M28x2			Aluminium with steel cable	**QRC-HS-10-DM-23-W89-SI**
M36x2			Aluminium with steel cable	**QRC-HS-12-DM-30-W89-SI**
M42x2			Aluminium with steel cable	**QRC-HS-19-DM-37-W89-SI**
M48x3			Aluminium with steel cable	**QRC-HS-25-DM-41-W89-SI**
M70x3			Aluminium with steel cable	**QRC-HS-38-DM-55-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 color codes BU, GN, YE and BK respectively instead of RD.

Series PS ▪ Carbon Steel

Product Description

Screw-to-connect couplings of the PS Series from STAUFF consist of a female body with external thread and a male tip with a screw sleeve. The Series is developed for particularly heavy-duty hammer applications and for connection of different booms in High Reach Demolition machines for connecting hydraulic lines in DN25 (1").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The permitted working pressures of the series PS coupling is comparatively higher, and with a safety factor of 4x working pressure, maximum flow rate of 600 l/min (or up to 1000 l/min for short term period) and able to withstand, high oil flow rates, intense pressure impulses, extreme vibrations and severe operating and environmental (site) conditions.

The PS Series is available in nominal size 25 (1").

Features

- poppet valve
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Sealing's made from FKM (Viton®), HNBR, PTFE
- Patented poppet valve unit with fully enclosed/chambered sealings eliminating the risk of extrusion faults
- Bi-directional flow
- Can be connected at 50 bar maximum residual pressure (tools required)

Applications

Construction Machinery

Top Features

Zinc/Nickel coating

Vibration resistant

Designed for secure connection

PS

Series PS ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Nickel
Standard Seal Material(s)	HNBR, FKM (Viton®), PTFE [2]
Working Temperature	-20° C ... +150° C / -4° F ... +302° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	not allowed
Application	Construction Machinery
ISO Interchange	-

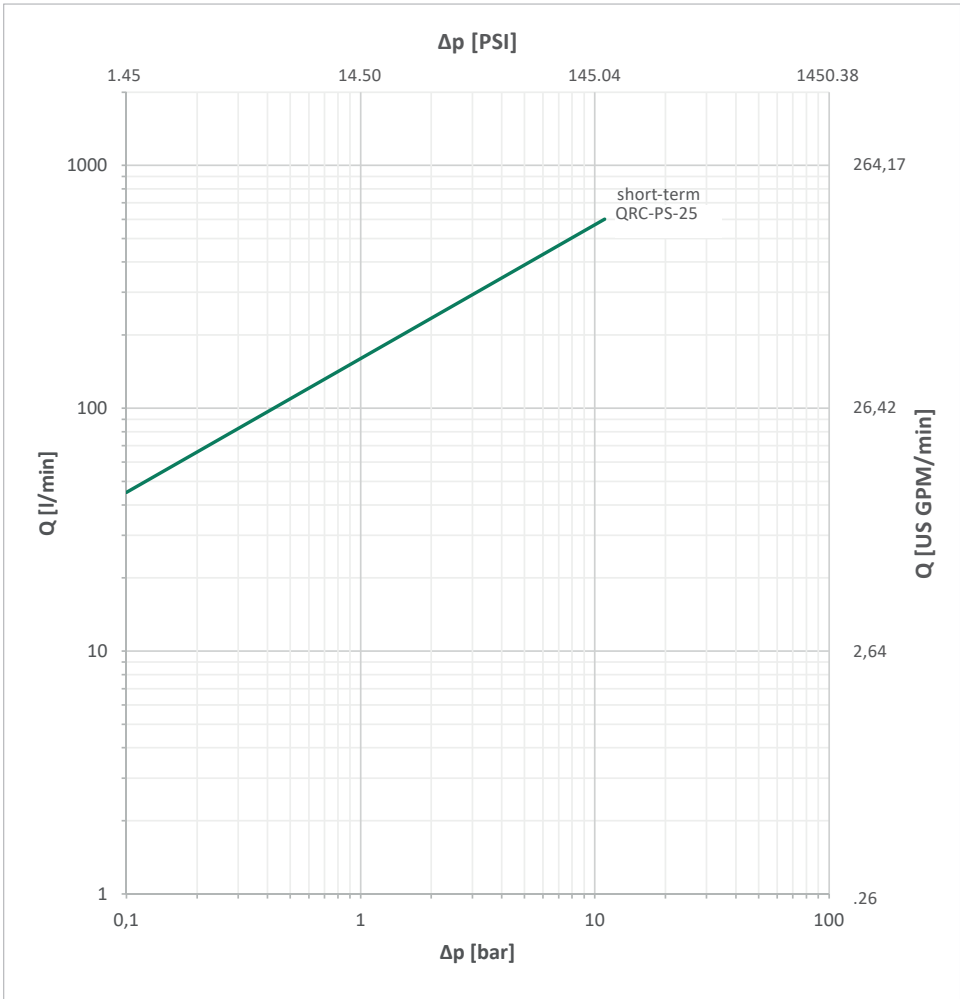
[2] Alternative seal materials are available on request.

Technical Data

Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
PS-25	08	1"	25	600 (1000)*	158.50	380	5511	1520	22046	1520	22046	1520	22046	27	.9130

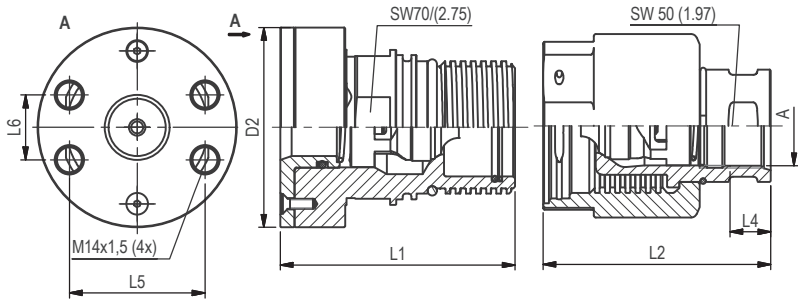
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.
* short term possible

Flow Characteristics



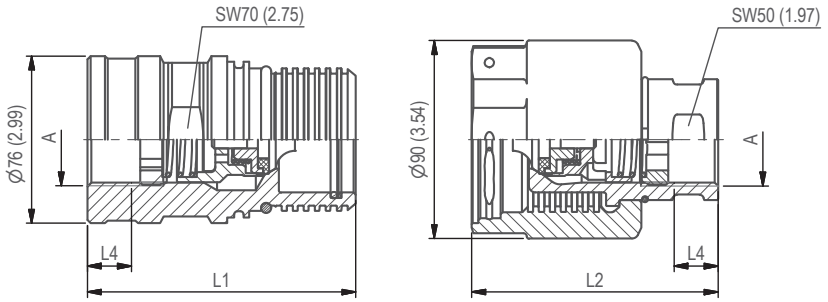
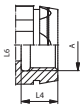
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm^2/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

PS



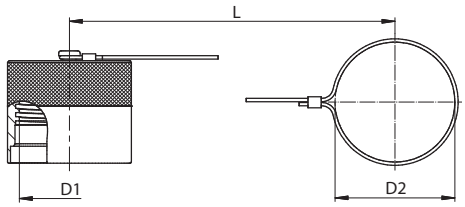
SW: Width across flats. All dimensions in mm (inch).

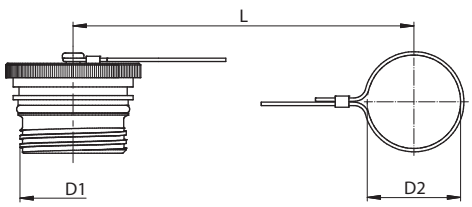
Series PS-25 ▪ BG 08 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	L5	L6	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Flange SAE 6000 PSI											
	1"	98	115,5	115,5			66,7	31,8	QRC-PS-25-F-C620M-S3-W3	300,40		
			4.55	4.55			2,62	1.24		662.27		
												
	Female Thread according to SAE J1926-14 - ISO 11926-1											
	UN 1" 5/8 -12			112		19					QRC-PS-25-M-U20-HB-W3	262,60
				4.41		.75						578.93
	Female Thread according to DIN 3852-2-A											
	G 1" 1/4	76	122	112		21,5			QRC-PS-25-F-G20-S3-W3	244	QRC-PS-25-M-G20-HB-W3	255,90
		2.99	4.80	4.41		.85				537.93		564.16

PS

Series PS ▪ Dust Protection





Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
So. 65x5	80	280	Aluminium silver with steel cable	QRC-PS-25-DF-80-W89-SI
	3.15	11.02		

Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
So. 65x5	56	240	Aluminium silver with steel cable	QRC-PS-25-DM-56-W89-SI
	2.20	9.45		

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series RH ▪ Carbon Steel

Product Description

Flat Face screw-to-connect couplings of the RH Series from STAUFF consist of a female body with external thread and a male tip with a screw sleeve. The Series is developed for extra heavy-duty applications for connecting of large diameter hydraulic lines up to DN 25 (1").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in heavy duty construction and transportation modules, drilling rigs and trailer equipment. Other applications may, depending on the pressure and flow characteristics, include oil equipment steel mill machinery, and other demanding hydraulic applications.

The RH Series is available in nominal sizes: 10, 12,5, 16, 19, 25 (3/8" - 1").

Features

- Flat Face
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Sealing's made from FKM (Viton®), HNBR, PTFE
- Heavy duty internal components
- Suitable for panel mounting

Applications

Self-Propelled Modular Transporters

Top Features

Zinc/Nickel coating

Vibration resistant

Suitable for panel mounting

Designed for secure connection

RH

Series RH ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Nickel
Standard Seal Material(s)	NBR (Buna-N®), PTFE [2]
Working Temperature	-30° C ... +100° C / -22° F ... +212° F
Valve Design	Flat Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Max. 20 bar / 290 PSI Residual Pressure with Tools allowed
Application	Construction Machinery
ISO Interchange	-

[2] Alternative seal materials are available on request.

Technical Data

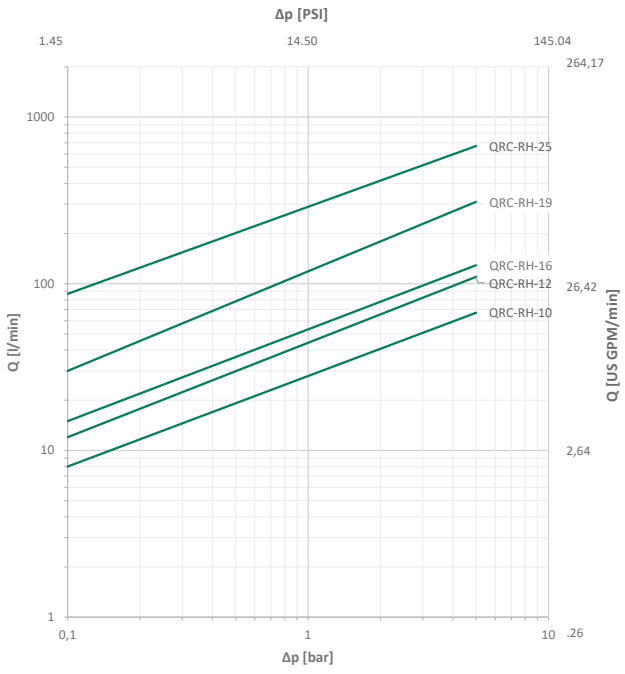
Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure*		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
RH-10	2	3/8"	10	46	21094	420	6092	1300	18855	1350	19580	1450	210301	0,1	.0034
RH-12	3	1/2"	12,5	106	18.49	420	6092	1260	18275	1260	18275	1260	18275	0,16	.0054
RH-16	4	5/8"	16	148	27.77	420	6092	1260	18275	1260	18275	1260	18275	1,02	.0344
RH-19	6	3/4"	19	200	52.83	420	6092	1400	20305	1400	20305	1200	17405	0,86	.0291
RH-25	8	1"	25	500	132.09	420	6092	1150	16679	1100	15954	900	13053	2,84	.0960

Series	Maximum pressure for connecting				Maximum pressure for disconnecting	
	Pressure on Male Tip Female Body pressureless		Pressure on Female Body Male Tip pressureless			
	bar	PSI	bar	PSI	bar	PSI
RH-10	100	1450	100	1450	250	3626
RH-12	100	1450	80	1160	250	3626
RH-16	100	1450	80	1160	-	-
RH-19	100	1450	25	362	200	2900
RH-25	100	1450	50	725	80	1160

The indicated pressure ratings only apply to the coupling itself and depend on the connection type.
* in connected and disconnected condition.

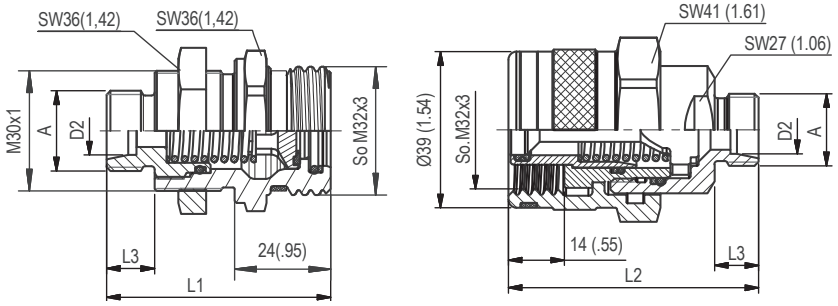
Notes:
1. Connecting the Female Body under residual pressure will result in increased coupling leakage.
2. Connecting under pressure will result in increased coupling torques, which may require the use of tools.
3. When disconnecting under pressure, it must be taken into account that the pressure remains in both halves of the line. The system must ensure that the pressure in both halves of the line is reduced to below the permissible connecting pressures before reconnecting.

Flow Characteristics



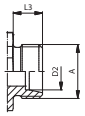
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm2/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

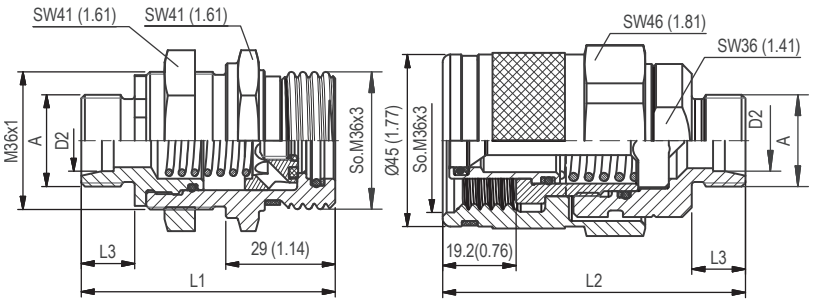
RH



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

Series RH-10 ▪ BG 2 ▪ Nominal Size 10

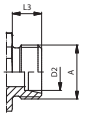
	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M14x1.5	8L	54	61	10		QRC-RH-10-F-08L-S1-W3	20,80	QRC-RH-10-M-08L-BT-W3	31,80
			2.13	2.40	.39			45.86		70.11
	M16x1.5	10L	55	61	11		QRC-RH-10-F-10L-S1-W3	21	QRC-RH-10-M-10L-BT-W3	32
			2.17	2.40	.43			46.30		70.55
	M18x1.5	12L	55	61	11		QRC-RH-10-F-12L-S1-W3	21,20	QRC-RH-10-M-12L-BT-W3	32,20
			2.17	2.40	.43			46.74		70.99
	M22x1.5	15L	56	62	12		QRC-RH-10-F-15L-S1-W3	22	QRC-RH-10-M-15L-BT-W3	32,90
			2.20	2.44	.47			48.50		72.53
	M18x1.5	10S	56	62	12		QRC-RH-10-F-10S-S1-W3	21,50	QRC-RH-10-M-10S-BT-W3	32,60
			2.20	2.44	.47			47.40		71.87
	M20x1.5	12S	56	62	12		QRC-RH-10-F-12S-S1-W3	22	QRC-RH-10-M-12S-BT-W3	33
			2.20	2.44	.47			48.50		72.75
	M22x1.5	14S	58	64	14		QRC-RH-10-F-14S-S1-W3	22,70	QRC-RH-10-M-14S-BT-W3	33,80
			2.28	2.52	.55			50.04		74.52
	M24x1.5	16S	58	64	14		QRC-RH-10-F-16S-S1-W3	23	QRC-RH-10-M-16S-BT-W3	33,90
			2.28	2.52	.55			50.71		74.74



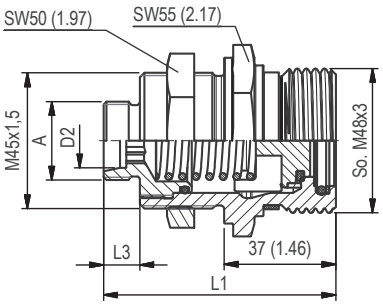
SW: Width across flats. All dimensions in mm (inch).

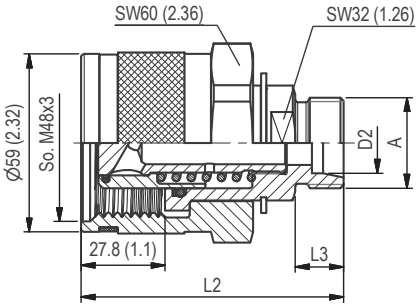
RH

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

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M22x1.5	15L	65	78	12		QRC-RH-12-F-15L-S1-W3	31,20	QRC-RH-12-M-15L-BT-W3	56,40
			2.56	3.07	.47			68.78		124.34
	M24x1.5	16S	67	80	14		QRC-RH-12-F-16S-S1-W3	32	QRC-RH-12-M-16S-BT-W3	57,30
			2.64	3.15	.55			70.55		126.32
	M30x2	20S	69,5	81,2	16		QRC-RH-12-F-20S-S1-W3	34,80	QRC-RH-12-M-20S-BT-W3	59,50
			2.74	3.20	.63			76.72		131.18

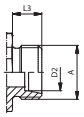
Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

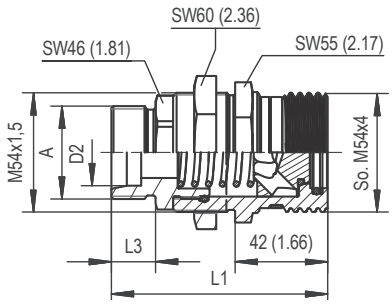


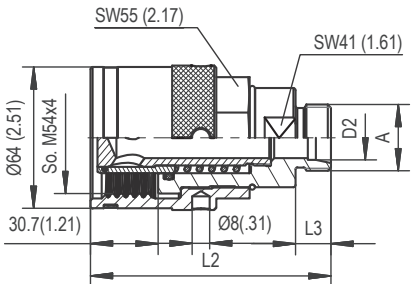


SW: Width across flats. All dimensions in mm (inch).

Series RH-16 ▪ BG 4 ▪ Nominal Size 16

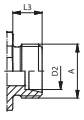
	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M22x1,5	15L	77	77	12		QRC-RH-16-F-15L-S1-W3	61,40	QRC-RH-16-M-15L-BT-W3	94
			3.03	3.03	.47			135.36		207.23
	M26x1,5	18L	77	77	12		QRC-RH-16-F-18L-S1-W3	61,60	QRC-RH-16-M-18L-BT-W3	94,30
			3.03	3.03	.47			135.80		207.90
	M24x1,5	16S	79	79	14		QRC-RH-16-F-16S-S1-W3	61,70	QRC-RH-16-M-16S-BT-W3	94,50
			3.11	3.11	.55			136.03		208.34
	M30x2	20S	81	81	16		QRC-RH-16-F-20S-S1-W3	62	QRC-RH-16-M-20S-BT-W3	94,90
			3.19	3.19	.63			136.69		209.22





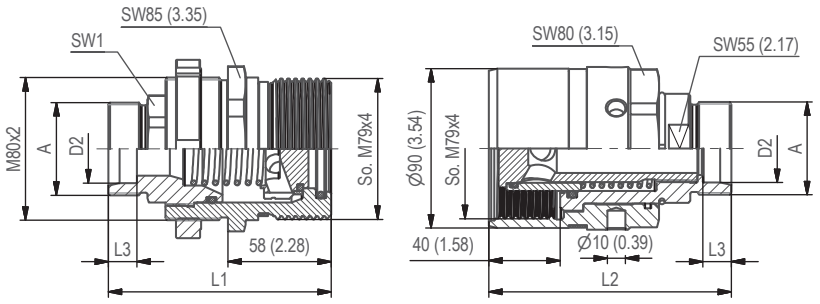
SW: Width across flats. All dimensions in mm (inch).

Series RH-19 ▪ BG 6 ▪ Nominal Size 19

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread with 24° Conical Bore - Shape W according to DIN 3861									
	M26x1,5	18L	90	103	12		QRC-RH-19-F-18L-S1-W3	88	QRC-RH-19-M-18L-BT-W3	128,80
			3.54	4.06	.47			194.01		283.96
	M30x2	22L	92	105	14		QRC-RH-19-F-22L-S1-W3	88,80	QRC-RH-19-M-22L-BT-W3	129,60
			3.62	4.13	.55			195.77		285.72
	M36x2	28L	92	107	14		QRC-RH-19-F-28L-S1-W3	90	QRC-RH-19-M-28L-BT-W3	130,60
			3.62	4.21	.55			198.42		287.92
	M30x2	20S	95	109	16		QRC-RH-19-F-20S-S1-W3	92,20	QRC-RH-19-M-20S-BT-W3	131,60
			3.74	4.29	.63			203.27		290.13
	M36x2	25S	97	111	18		QRC-RH-19-F-25S-S1-W3	93	QRC-RH-19-M-25S-BT-W3	132,30
			3.82	4.37	.71			205.03		291.67
	M42x2	30S	99	113	20		QRC-RH-19-F-30S-S1-W3	95,80	QRC-RH-19-M-30S-BT-W3	134,30
			3.90	4.45	.79			211.20		296.08

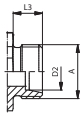
RH

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

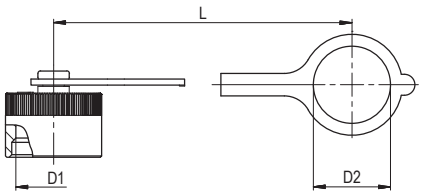


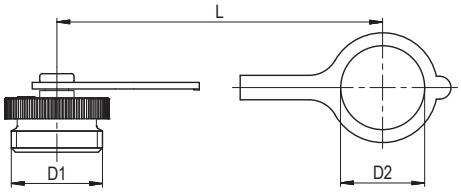
SW: Width across flats. All dimensions in mm (inch).

Series RH-25 ▪ BG 8 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	SW1	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
Male Thread with 24° Conical Bore - Shape W according to DIN 3861											
	M45x2	35L	122	136	16		46	QRC-RH-25-F-35L-S1-W3	273	QRC-RH-25-M-35L-BT-W3	335
			4.80	5.35	.63		1.81		601.86		738.55
	M52x2	42L	122	136	16		55	QRC-RH-25-F-42L-S1-W3	283	QRC-RH-25-M-42L-BT-W3	335
			4.80	5.35	.63		2.17		623.91		738.55
	M52x2	38S	125	136	22		55	QRC-RH-25-F-38S-S1-W3	285,50	QRC-RH-25-M-38S-BT-W3	334,50
			4.92	5.35	.87		2.17		629.42		737.45

Series RH ▪ Dust Protection





Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
M32x3	36,5	190	Plastic (Colour: Red)	QRC-RH-10-DF-37-K-RD
	1.44	7.48		
M32x3	29,5	185	Plastic (Colour: Red)	QRC-RH-10-DF-30-K-RD
	1.16	7.28		
M36x3	41	190	Plastic (Colour: Red)	QRC-RH-12-DF-41-K-RD
	1.61	7.48		
M48x3	55	210	Plastic (Colour: Red)	QRC-RH-16-DF-55-K-RD
	2.17	8.27		

Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
M32x3	29,5	185	Plastic (Colour: Red)	QRC-RH-10-DM-30-K-RD
	1.16	7.28		
M36x3	29,5	185	Plastic (Colour: Red)	QRC-RH-12-DM-30-K-RD
	1.16	7.28		
M48x3	36,5	190	Plastic (Colour: Red)	QRC-RH-16-DM-37-K-RD
	1.44	7.48		

Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
So. M48x3			Aluminium silver with chain	QRC-RH-16-DF-CN-W89-SI
So. M54x4			Aluminium silver with chain	QRC-RH-19-DF-CN-W89-SI
So. M79x4			Aluminium silver with chain	QRC-RH-25-DF-CN-W89-SI

Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
So. M48x3			Aluminium silver with chain	QRC-RH-16-DM-CN-W89-SI
So. M54x4			Aluminium silver with chain	QRC-RH-19-DM-CN-W89-SI
So. M79x4			Aluminium silver with chain	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 color codes BU, GN, YE and BK respectively instead of RD.

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series FG ▪ Carbon Steel

Product Description

Flat Face screw-to-connect couplings of the FG Series from STAUFF consist of a female body with a screw sleeve and a male tip with external thread. The Series is developed for particularly heavy-duty applications for connecting hydraulic lines up to DN31,5 (1 1/4").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in heavy construction and transport equipment, oil and gas platforms, blow out preventer (BOP) systems and gensets. Other applications include heavy lifting equipment, loaders/trailers, Drilling rigs, Piling Rigs and other demanding hydraulic applications.

The FG Series is available in nominal sizes 10, 12, 16, 19, 25, 31,5 (3/8" - 1 1/4").

The nominal sizes 12, 16, 19 and 25 are certified according to API-16D (American Petroleum Institute) and EUB Directive 036 by LRQA (Lloyd's Register): Fire resistance test at 345 bar (5000 PSI) and a flametemperature of 700° C (1300° F).

Features

- Flat Face
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Sealing's made from NBR (Buna-N®), PTFE, PU, POM
- Heavy duty internal components
- Male tip or female can be connected up to 250 bar (3626 PSI) by hand or easy with tool
- Tested acc. API-16D and acc. EUB Directive 036 (nominal sizes 12, 16, 19, 25)
- Feature: Green O-Ring
  External O-ring as a safety feature to indicate the complete/correct connection of the male tip and female body
  (the O-ring must be covered by the sleeve of the female body)

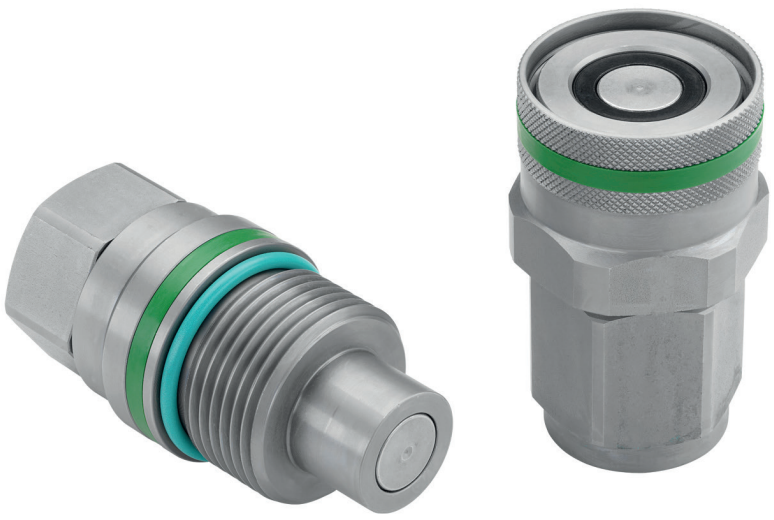
Applications

- Construction Machinery
- Hydraulic trailers
- Lifting Equipment
- Oil and gas industry (onshore)
- Hydraulic tippers

Top Features

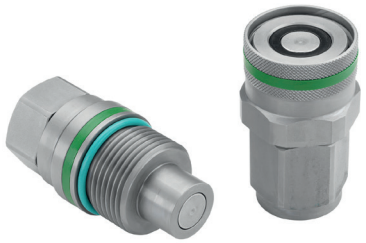
- Zinc/Nickel coating
- Designed for secure connection
- Connect Under pressure
- Vibration resistant

FG



Series FG ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zink/Nickel
Standard Seal Material(s)	NBR (Buna-N®), PTFE, PU, POM
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Flat Face
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Male Tip or Female Body up to 250 bar (3626 PSI) allowed
Disconnec Under Pressure	allowed
Application	Construction Machinery, Industrial Hydraulic, Onshore
ISO Interchange	-



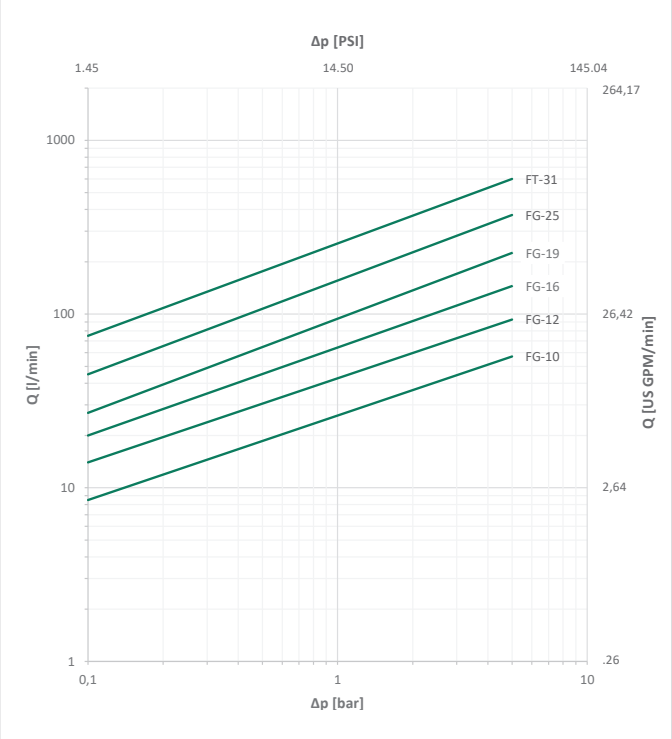
Technical Data

Series	BG	DN Zoll Inch	DN metric ISO 4397	Q_{max} l/min	Q_{max} US GPM	Working Pressure Connected bar	Working Pressure Connected PSI	Female Body bar	Female Body PSI	Male Tip bar	Male Tip PSI	Spillage ml	Spillage fl oz
FG-10	2	3/8"	10	46	12.15	550	7977	330	4786	550	7977	0,01	.0003
FG-12	3	1/2"	12,5	90	23.77	550	7977	330	4786	550	7977	0,01	.0003
FG-16	4A	5/8"	16	148	39.09	550	7977	330	4786	550	7977	0,02	.0007
FG-19	4	3/4"	19	200	52.83	500	7252	330	4786	500	7252	0,01	.0003
FG-25	5	1"	25	378	99.86	470	6817	300	4351	470	6817	0,005	.00017
FT-31	6	1 1/4"	31,5	600	158.50	400	5802	400	5802	400	5802		

Series	Bursting Pressure Connected bar	Bursting Pressure Connected PSI	Bursting Pressure Female Body bar	Bursting Pressure Female Body PSI	Bursting Pressure Male Tip bar	Bursting Pressure Male Tip PSI	Maximum pressure for connecting: Pressure on Male Tip, Female Body pressureless bar	Maximum pressure for connecting: Pressure on Male Tip, Female Body pressureless PSI	Maximum pressure for connecting: Pressure on Female Body, Male Tip pressureless bar	Maximum pressure for connecting: Pressure on Female Body, Male Tip pressureless PSI	Maximum pressure for connecting: Pressure on Female Body, Pressure on Male Tip bar	Maximum pressure for connecting: Pressure on Female Body, Pressure on Male Tip PSI	Maximum pressure for disconnecting bar	Maximum pressure for disconnecting PSI
FG-10	1400	20305	1000	14504	1400	20305	250	3626	250	3626	250	3626	250	3626
FG-12	1400	20305	1000	14504	1400	20305	250	3626	250	3626	200	2901	200	2901
FG-16	1400	20305	1000	14504	1400	20305	250	3626	250	3626	200	2901	200	2901
FG-19	1400	20305	1000	14504	1400	20305	250	3626	250	3626	150	2176	150	2176
FG-25	1200	17405	800	11603	1200	17405	250	3626	250	3626	150	2176	150	2176
FT-31	1100	15954	1100	15954	1100	15954	250	3626	150	2176	50	725		

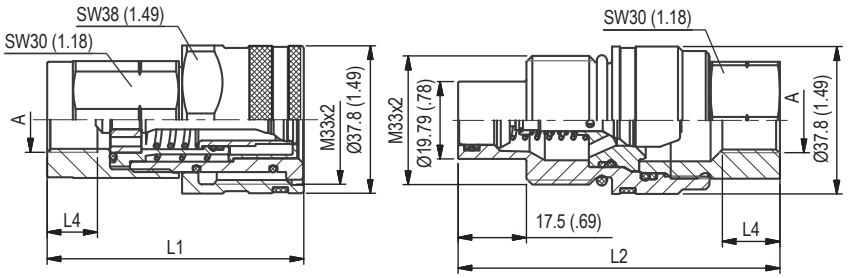
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Flow Characteristics



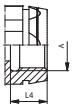
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm2/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

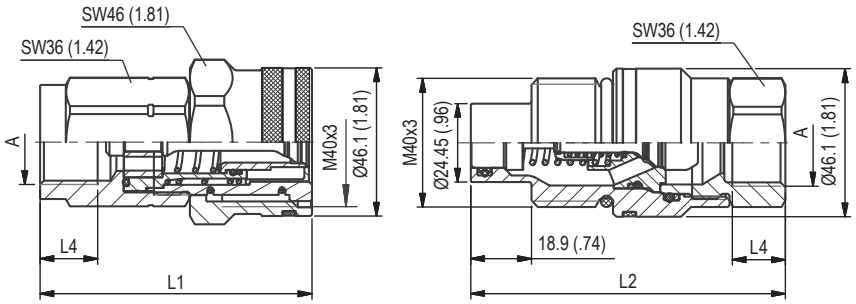
FG



Insertion Male Tip = 16,9 (.67)
All dimensions in mm (inch).

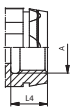
Series FG-10 ▪ BG 2 ▪ Nominal Size 10

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 3/8"		65,8	82,3		12,9	QRC-FG-10-F-G06-S1-W3	34,70	QRC-FG-10-M-G06-S5-W3	38,40
			2.59	3.25		.51		76.50		84.66
	G 1/2"		70.4	82,3		14	QRC-FG-10-F-G08-S1-W3	35,20	QRC-FG-10-M-G08-S5-W3	36,80
			2.77	3.25		.55		77.60		81.13
	NPTF 3/8" -18		65,8	82,3			QRC-FG-10-F-NF06-S1-W3	34,50	QRC-FG-10-M-NF06-S5-W3	38,20
			2.59	3.25				76.06		84.22
	NPTF 1/2"-14		71,4	82,3			QRC-FG-10-F-NF08-S1-W3	36,00	QRC-FG-10-M-NF08-S5-W3	36,90
			2.81	3.25				79.37		81.35
	UNF 3/4" -16		70,4	82,3		16	QRC-FG-10-F-U08-S1-W3	35,60	QRC-FG-10-M-U08-S5-W3	37,20
			2.77	3.25		.63		78.48		82.01



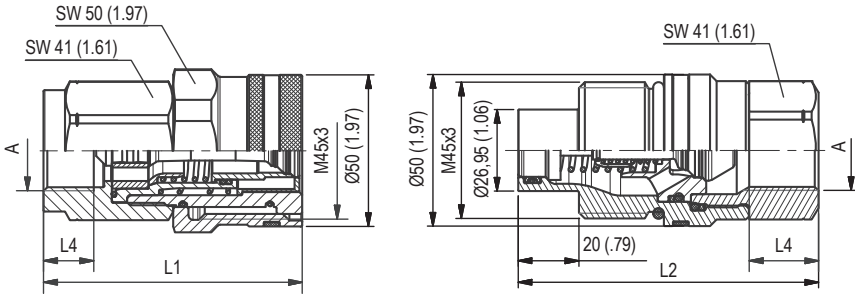
Insertion Male Tip = 18,4 (.72)
All dimensions in mm (inch).

Series FG-12 ▪ BG 3 ▪ Nominal Size 12,5

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 1/2"		84,7	96		14	QRC-FG-12-F-G08-S1-W3	67,10	QRC-FG-12-M-G08-S5-W3	67,10
			3.34	3.78		.55		147.93		147.93
	G 3/4"		84,7	97		18	QRC-FG-12-F-G12-S1-W3	63,70	QRC-FG-12-M-G12-S5-W3	64,80
			3.34	3.82		.71		140.43		142.86
	NPTF 1/2" -14		83,7	96			QRC-FG-12-F-NF08-S1-W3	66,80	QRC-FG-12-M-NF08-S5-W3	67,60
			3.30	3.78				147.27		149.03
	NPTF 3/4" -14		84,7	96			QRC-FG-12-F-NF12-S1-W3	64,90	QRC-FG-12-M-NF12-S5-W3	65,00
			3.34	3.78				143.08		143.30
	UNF 3/4" -16		84,7	96		16	QRC-FG-12-F-U08-S1-W3	67,60	QRC-FG-12-M-U08-S5-W3	67,70
			3.35	3.78		.63		149.03		149.25
	UN 1" 1/16 -12		84,7	98		19	QRC-FG-12-F-U12-S1-W3	63,00	QRC-FG-12-M-U12-S5-W3	64,60
			3.35	3.86		.75		138.89		142.42

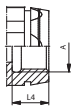
FG

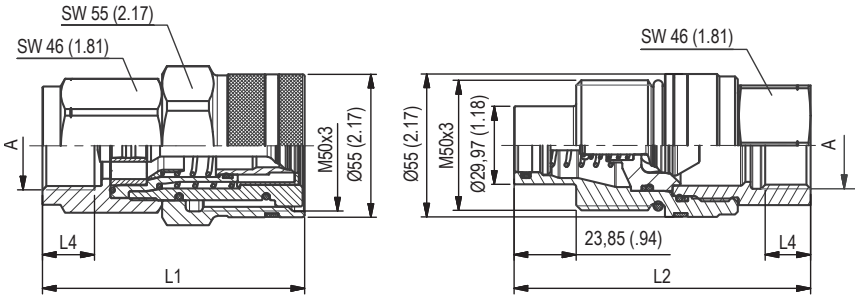
Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.



Insertion Male Tip = 19,0 (.75)
All dimensions in mm (inch).

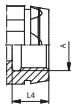
Series FG-16 ▪ BG 4A ▪ Nominal Size 16

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 3/4"		85	99		16,5	QRC-FG-16-F-G12-S1-W3	93	QRC-FG-16-M-G12-S5-W3	76,9
			3.35	3.90		.65		205.05		169.54
	G 1"		89	105		19	QRC-FG-16-F-G16-S1-W3	88,5	QRC-FG-16-M-G16-S5-W3	75,6
			3.50	4.13		.75		195.10		166.67
	NPTF 3/4" -14		85	102			QRC-FG-16-F-NF12-S1-W3	91,7	QRC-FG-16-M-NF12-S5-W3	79,2
			3.35	4.02				202.16		174.60
	UN 1" 1/16 -12		88	102		19	QRC-FG-16-F-U12-S1-W3	93,5	QRC-FG-16-M-U12-S5-W3	78,5
			3.46	4.02		.75		206.13		173.06



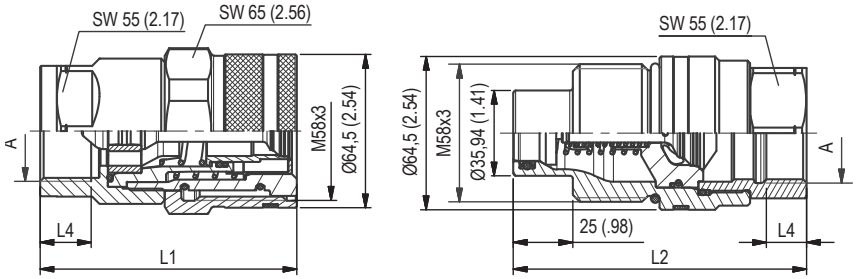
Insertion Male Tip = 22,7 (.89)
All dimensions in mm (inch).

Series FG-19 ▪ BG 4 ▪ Nominal Size 19

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 3/4"		101	114		16	QRC-FG-19-F-G12-S1-W3	120,60	QRC-FG-19-M-G12-S5-W3	115,90
			3.98	4.49		.63		265.88		255.52
	G 1"		101	114		20	QRC-FG-19-F-G16-S1-W3	115,20	QRC-FG-19-M-G16-S5-W3	107,60
			3.98	4.49		.79		253.97		237.22
	NPTF 1" -11 1/2		101	114			QRC-FG-19-F-NF16-S1-W3	116,60	QRC-FG-19-M-NF16-S5-W3	109,40
			3.98	4.49				257.06		241.16
	UN 1" 5/16 -12		101	114		20	QRC-FG-19-F-U16-S1-W3	114,70	QRC-FG-19-M-U16-S5-W3	109,50
			3.98	4.49		.79		252.87		241.40

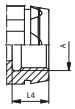
FG

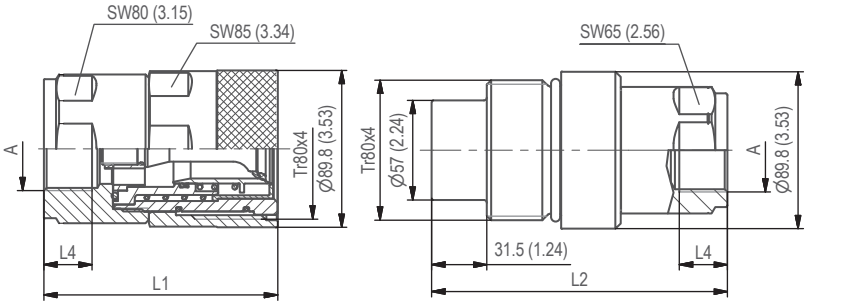
Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.



Insertion Male Tip = 24,1 (.95)
All dimensions in mm (inch).

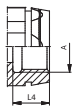
Series FG-25 ▪ BG 5 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 1" 1/4		108	123,5		21,5	QRC-FG-25-F-G20-S1-W3	155,00	QRC-FG-25-M-G20-S5-W3	151,00
			4.25	4.86		.85		341.71		332.90
	NPTF 1"¼ -11½		108	126,4			QRC-FG-25-F-NF20-S1-W3	155,00	QRC-FG-25-M-NF20-S5-W3	154,00
			4.25	4.98				341.71		339.51
	UN 1" 5/8 - 12		108	126,4		20	QRC-FG-25-F-U20-S1-W3	155,00	QRC-FG-25-M-U20-S5-W3	154,00
			4.25	4.98		.79		341.71		339.51



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

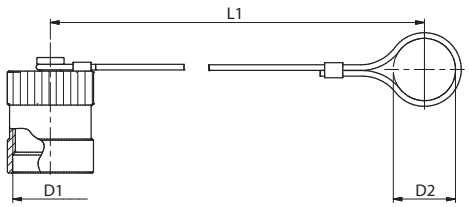
Series FT-31 ▪ BG 6 ▪ Nominal Size 31,5

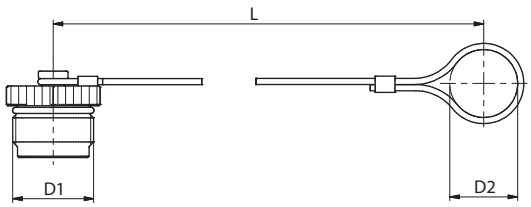
	Port A	Dimensions (mm/in) ØD2	L1	L2	L3	L4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 1" 1/2		134	169		22	QRC-FT-31-F-G24-S1-W3	442,20	QRC-FT-31-M-G24-S2-W3	402
			5.28	6.65		.87		974.88		886.26
	NPTF 1"½ -11		134	169			QRC-FT-31-F-NF24-S1-W3	444,20	QRC-FT-31-M-NF24-S2-W3	404,10
			5.28	6.65				979.29		890.89
	UN 1" 7/8 -12		134	169		19	QRC-FT-31-F-U24-S1-W3	439,20	QRC-FT-31-M-U24-S2-W3	400,50
			5.28	6.65		.75		968.27		882.95

FG

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series FG ▪ Dust Protection





Dimensions (mm/in)			Material	Dust Plug for Male Tip
D1	D2	L		Ordering Codes
M33x2	30 1.18	175 6.89	Aluminium with chain	QRC-FG-10-DM-30-W89-SI
M40x3	40,5 1.59	215 8.46	Aluminium with chain	QRC-FG-12-DM-41-W89-SI
M45x3	42,5 1.67	230 9.06	Aluminium with chain	QRC-FG-16-DM-43-W89-SI
M50x3	46 1.81	245 9.65	Aluminium with chain	QRC-FG-19-DM-46-W89-SI
M58x3	55 2.17	275 10.83	Aluminium with chain	QRC-FG-25-DM-55-W89-SI
TR80x4	71,5 2.81	350 13.78	Aluminium with chain	QRC-FG-31-DM-72-W89-SI

Dimensions (mm/in)			Material	Dust Cap for Female Body
D1	D2	L		Ordering Codes
M33x2	30 1.18	175 6.89	Aluminium with chain	QRC-FG-10-DF-30-W89-SI
M40x3	36 1.42	215 8.46	Aluminium with chain	QRC-FG-12-DF-36-W89-SI
M45x3	42,5 1.67	230 9.06	Aluminium with chain	QRC-FG-16-DF-43-W89-SI
M50x3	46 1.81	245 9.65	Aluminium with chain	QRC-FG-19-DF-46-W89-SI
M58x3	55 2.17	275 10.83	Aluminium with chain	QRC-FG-25-DF-55-W89-SI
TR80x4	71,5 2.81	350 13.78	Aluminium with chain	QRC-FG-31-DF-72-W89-SI

Series HR ▪ Carbon Steel

Product Description

Screw-to-connect couplings of the HR Series from STAUFF consist of a female body with external thread and a male tip with a screw sleeve. The Series is developed for particularly heavy-duty, high pressure and high pulsing applications for connecting hydraulic lines up to DN38 (1 1/2").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in heavy construction machinery and available in nominal sizes 10, 12,5, 19, 25, 38 (3/8" - 1 1/2").

Features

- Poppet Valve
- Zinc-Plating and Thick-Film-Passivation (Chrome III)
- Can be connect under pressure up to 100 bar (1450 PSI)

Applications

Construction Machinery

Top Features

Vibration resistant

Connect Under pressure

Designed for secure connection

Series HR ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Plating and Thick-Film-Passivation (Chrome III)
Standard Seal Material(s)	NBR (Buna-N®) [2]
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Male Tip and Female Body up to max. 100 bar / 1450 PSI allowed
Application	Construction Machinery
ISO Interchange	-

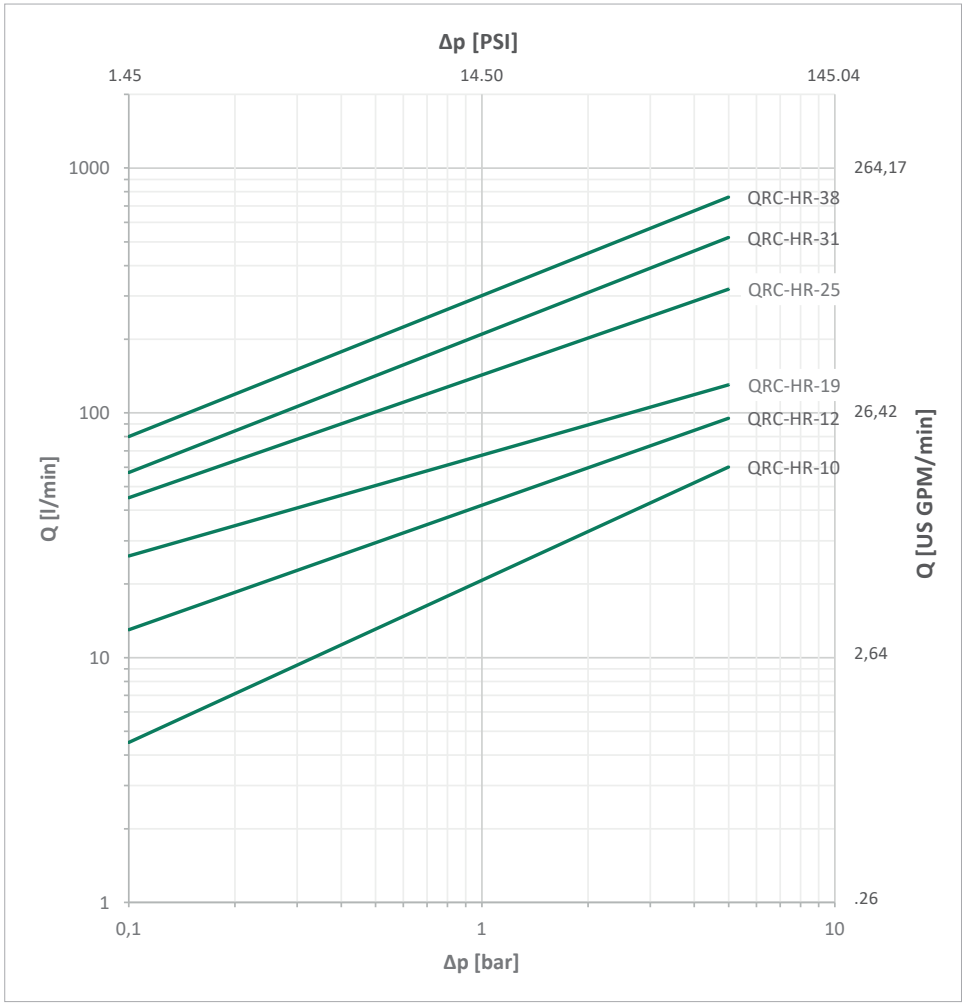
[2] Alternative seal materials are available on request.

Technical Data

Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
HR-10	2	3/8"	10	50	13.21	610	8847	2450	35534	2450	35534	2600	37710	2	.0676
HR-12	3	1/2"	12,5	85	22.45	470	6817	1900	27557	2100	30458	1650	23931	3	.1014
HR-19	4	3/4"	19 (20)	120	31.70	400	5802	1250	18130	1500	21756	1250	18130	10	.3381
HR-25	6	1"	25	280	73.97	400	5802	1300	18855	1600	23206	1100	15954	16	.5410
HR-31	8	1 1/4''	31	460	121.52	320	4641	1300	18855	1300	18855	1200	17405	30	10.144
HR-38	10	1 1/2''	38	700	184.92	300	4351	1100	15954	1500	21756	950	13779	54	18.260

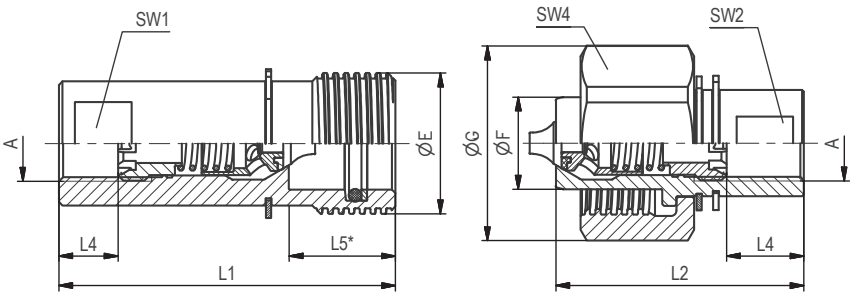
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Flow Characteristics



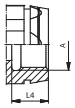
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm^2/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

HR

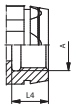


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HR-12.
* Insertion Female Body.

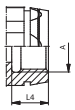
Series HR-10 ▪ BG 2 ▪ Nominal Size 10

	Port A	Dimensions (mm/in) ØE	ØF	ØG	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1														
	G 3/8"	36	22	49	77	57	12	22	22	22	45	QRC-HR-10-F-G06-BT-W66	31,80	QRC-HR-10-M-G06-B-W66	35,20
		1.42	.87	1.93	3.03	2.24	.47	.87	.87	.87	1.77		70.11		77.60
		36	22	49	77	57	12	22	22	22	45	QRC-HR-10-FD-G06-BT-W66-DM	37,10	QRC-HR-10-MD-G06-B-W66-DM	41
		1.42	.87	1.93	3.03	2.24	.47	.87	.87	.87	1.77		81.79		90.39

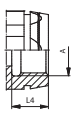
Series HR-12 ▪ BG 3 ▪ Nominal Size 12,5

	Port A	Dimensions (mm/in) ØE	ØF	ØG	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1														
	G 1/2"	40	26	55	95	70	14	30	26	26	50	QRC-HR-12-F-G08-BT-W66	48,40	QRC-HR-12-M-G08-B-W66	48
		1.57	1.02	2.16	3.74	2.76	.55	1.18	1.02	1.02	1.97		106.70		105.82
		40	26	55	95	70	14	30	26	26	50	QRC-HR-12-FD-G08-BT-W66-DM	54	QRC-HR-12-MD-G08-B-W66-DM	56,60
		1.57	1.02	2.16	3.74	2.76	.55	1.18	1.02	1.02	1.97		119.05		124.78

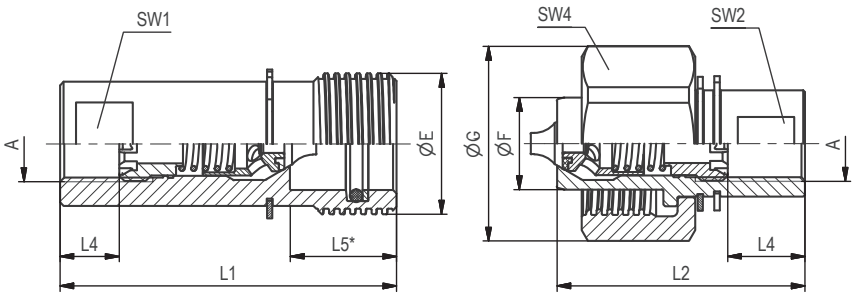
Series HR-19 ▪ BG 4 ▪ Nominal Size 19

	Port A	Dimensions (mm/in) ØE	ØF	ØG	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1														
	G 3/4"	44,7	26	60	99	73	16	30	30	30	60	QRC-HR-19-F-G12-BT-W66	66	QRC-HR-19-M-G12-B-W66	59,90
		1.76	1.02	2.36	3.90	2.87	.63	1.18	1.18	1.18	2.36		145.51		132.06
		44,7	26	60	99	73	16	30	30	30	60	QRC-HR-19-FD-G12-BT-W66-DM	72,80	QRC-HR-19-MD-G12-B-W66-DM	68
		1.76	1.02	2.36	3.90	2.87	.63	1.18	1.18	1.18	2.36		160.50		149.91

Series HR-25 ▪ BG 6 ▪ Nominal Size 25

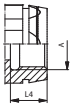
	Port A	Dimensions (mm/in) ØE	ØF	ØG	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1														
	G 1"	58	36,8	77	106	81	18	30	40	40	77	QRC-HR-25-F-G16-BT-W66	117,90	QRC-HR-25-M-G16-B-W66	114,7
		2.28	1.45	3.02	4.17	3.19	.71	1.18	1.57	1.57	3.02		259.93		252.87
		58	36,8	77	106	81	18	30	40	40	77	QRC-HR-25-FD-G16-BT-W66-DM	125,70	QRC-HR-25-MD-G16-B-W66-DM	125,80
		2.28	1.45	3.02	4.17	3.19	.71	1.18	1.57	1.57	3.02		277.12		277.34

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

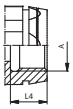


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HR-12.
* Insertion Female Body.

Series HR-31 ▪ BG 8 ▪ Nominal Size 31,5

	Port A	Dimensions (mm/in) ØE	ØF	ØG	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1														
	G 1 1/4"	66	47	88	118	88	20	35	48	48	88	QRC-HR-31-F-G20-BT-W66	160,60	QRC-HR-31-M-G20-B-W66	180,30
		2.60	1.85	3.46	4.65	3.46	.79	1.38	1.89	1.89	3.46		354.06		397.49
		66	47	88	118	88	20	35	48	48	88	QRC-HR-31-FD-G20-BT-W66-DM	171,10	QRC-HR-31-MD-G20-B-W66-DM	192,80
		2.60	1.85	3.46	4.65	3.46	.79	1.38	1.89	1.89	3.46		377.21		425.05

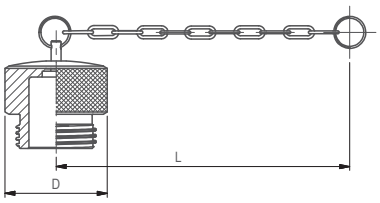
Series HR-38 ▪ BG 10 ▪ Nominal Size 38

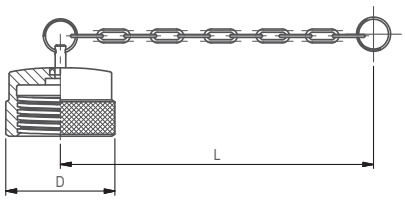
	Port A	Dimensions (mm/in) ØE	ØF	ØG	L1	L2	L4 min	L5	SW1	SW2	SW4	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1														
	G 1 1/2"	75	57	93	121	90	22	35	55	55	93	QRC-HR-38-F-G24-BT-W66	200,60	QRC-HR-38-M-G24-B-W66	218,40
		2.95	2.24	3.66	4.76	3.54	.87	1.38	2.16	2.16	3.66		442.25		481.49
		75	57	93	121	90	22	35	55	55	93	QRC-HR-38-FD-G24-BT-W66-DM	213,90	QRC-HR-38-MD-G24-B-W66-DM	233,10
		2.95	2.24	3.66	4.76	3.54	.87	1.38	2.16	2.16	3.66		471.57		513.90

HR

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HR ▪ Dust Protection





Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Male Tip Ordering Codes
48		200	Plastic (Colour: Black)	QRC-HR-10-DM-CN-KI-BK
1.89		7.87		
51		200	Plastic (Colour: Black)	QRC-HR-12-DM-CN-KI-BK
2.01		7.87		
57		200	Plastic (Colour: Black)	QRC-HR-19-DM-CN-KI-BK
2.24		7.87		
68		200	Plastic (Colour: Black)	QRC-HR-25-DM-CN-KI-BK
2.68		7.87		
76		265	Plastic (Colour: Black)	QRC-HR-31-DM-CN-KI-BK
2.99		10.43		
86		265	Plastic (Colour: Black)	QRC-HR-38-DM-CN-KI-BK
3.39		10.43		

Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Female Body Ordering Codes
48		200	Plastic (Colour: Black)	QRC-HR-10-DF-CN-KI-BK
1.89		7.87		
51		200	Plastic (Colour: Black)	QRC-HR-12-DF-CN-KI-BK
2.01		7.87		
57		200	Plastic (Colour: Black)	QRC-HR-19-DF-CN-KI-BK
2.24		7.87		
68		200	Plastic (Colour: Black)	QRC-HR-25-DF-CN-KI-BK
2.68		7.87		
76		265	Plastic (Colour: Black)	QRC-HR-31-DF-CN-KI-BK
2.99		10.43		
85		265	Plastic (Colour: Black)	QRC-HR-38-DF-CN-KI-BK
3.35		10.43		

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

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HH ▪ Carbon Steel

Product Description

Screw-to-connect couplings of the HH Series from STAUFF consist of a female body with a screw sleeve and a male tip with external thread. The Series is developed for high working pressure applications for connecting hydraulic lines up to DN51 (2").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in high pressure applications and available in nominal sizes 10, 12,5, 19, 25, 31, 38, 51 (3/8" - 2").

Features

- Poppet Valve
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Connect under pressure
- Heavy duty internal components
- Wide of range for normal sizes up to DN51 (2'')

Applications

High Pressure Applications

Top Features

Zinc/Nickel coating

Vibration resistant

Connect Under pressure

Designed for secure connection

Series HH ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Nickel
Standard Seal Material(s)	NBR (Buna-N®) [2]
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Male Tip or Female Body allowed
Application	Industrial Hydraulic, Rescue and Tensioning Hydraulics
ISO Interchange	-

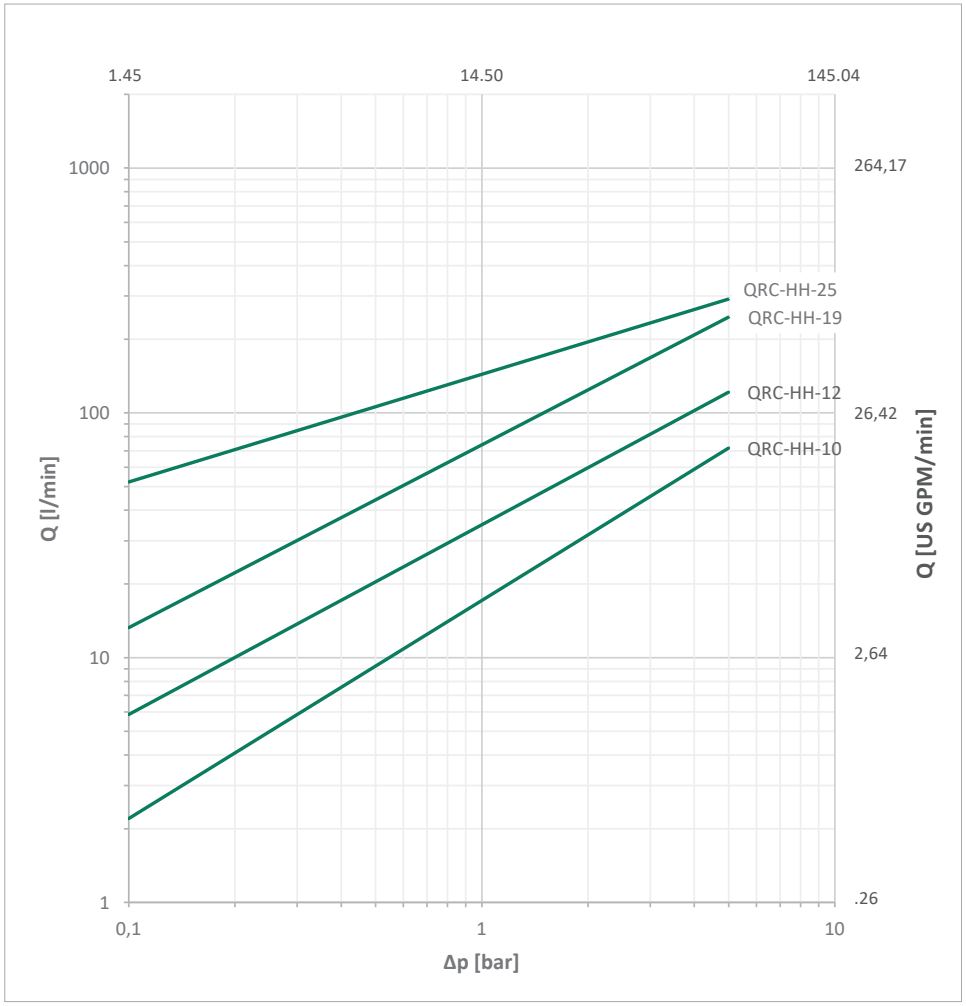
[2] Alternative seal materials are available on request.

Technical Data

Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
HH-10	2	3/8"	10	27	7.13	650	9427	3000	43511	3000	43511	3000	43511	1,9	.0642
HH-12	3	1/2"	12,5	60	15.85	600	8702	2200	31908	2700	39160	2500	36260	2,7	.0913
HH-19	4	3/4"	19 (20)	82,5	21.79	500	7252	2100	30458	2600	37710	2400	34809	9,3	.3145
HH-25	6	1"	25	150	39.63	460	6672	2000	29008	2600	37710	2300	33359	16	.5410
HH-31	8	1 1/4''	31	210	55.48	360	5221	1500	21756	1500	21756	1500	21756	30	10.144
HH-38	10	1 1/2''	38	400	105.67	360	5221	1500	21756	1500	21756	1200	17405	54	18.260
HH-51	12	2"	51	1500	396.26	210	3046	1500	21756	1500	21756	1200	17405	120	40.577

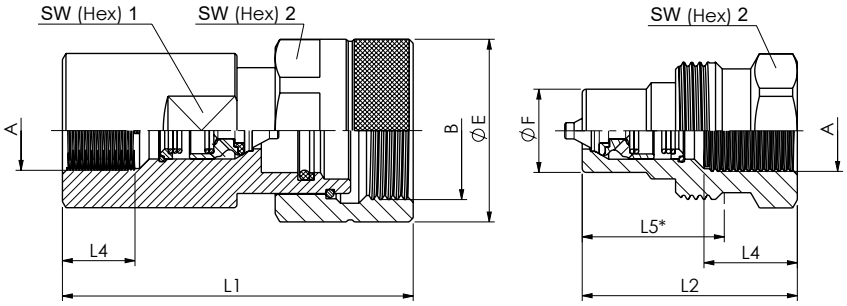
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Flow Characteristics



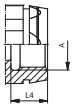
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

HH

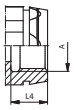


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HH-12.
* Insertion Male Tip.

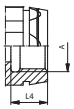
Series HH-10 ▪ BG 2 ▪ Nominal Size 10

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 3/8"	40	18,9	1 1/4" - 8 UN	75,6	48	16	34	30	32	36	QRC-HH-10-F-G06-BT-W3	36,86	QRC-HH-10-M-G06-B-W3	15,07
		.16	.74		2.98	1.89	.63	1.34	1.18	1.26	1.42		81.26		34.17
	NPTF 3/8" -18	40	18,9	1 1/4" - 8 UN	75,6	48		34	30	32	36	QRC-HH-10-F-NF06-BT-W3	34,60	QRC-HH-10-M-NF06-B-W3	15,70
		.16	.74		2.98	1.89		1.34	1.18	1.26	1.42		76.28		34.61

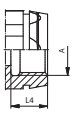
Series HH-12 ▪ BG 3 ▪ Nominal Size 12,5

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1/2"	45	20,5	1 3/8" - 8 UN	86,4	53	18	37,2	34	34	41	QRC-HH-12-F-G08-BT-W3	56,70	QRC-HH-12-M-G08-B-W3	18,82
		1.77	.81		3.40	2.09	.71	1.46	1.34	1.34	1.61		125.00		41.49
	NPTF 1/2" -14	45	20,5	1 3/8" - 8 UN	86,4	53		37,2	34	34	41	QRC-HH-12-F-NF08-BT-W3	58,20	QRC-HH-12-M-NF08-B-W3	18,00
		1.77	.81		3.40	2.09		1.46	1.34	1.34	1.61		128.31		39.68

Series HH-19 ▪ BG 4 ▪ Nominal Size 19

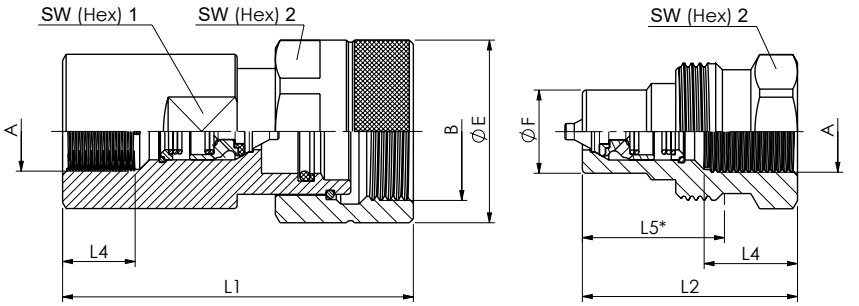
	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 3/4"	53,8	27,9	1 3/4" - 6 UN	105,5	63	21	47,3	41	46	50	QRC-HH-19-F-G12-BT-W3	93,00	QRC-HH-19-M-G12-B-W3	36,80
		2.12	1.10		4.15	2.48	0.83	1.86	1.61	1.81	1.97		205.03		80.25
	NPFT 3/4" -14	53,8	27,9	1 3/4" - 6 UN	105.5	63		47,3	41	46	50	QRC-HH-19-F-NF12-BT-W3	99,70	QRC-HH-19-M-NF12-B-W3	37,30
		2.12	1.10		4.15	2.48		1.86	1.61	1.81	1.97		219.80		82.23

Series HH-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1"	59	31.3	M52x4	123	72	23	56,5	50	50	55	QRC-HH-25-F-G16-BT-W3	137,90	QRC-HH-25-M-G16-B-W3	51,70
		2.32	1.23		4.84	2.83	.91	2.22	1.97	1.97	2.17		309.31		113.98
	NPTF 1" -11 1/2	59	31.3	M52x4	123	72		56,5	50	50	55	QRC-HH-25-F-NF16-BT-W3	148,10	QRC-HH-25-M-NF16-B-W3	54,00
		2.32	1.23		4.84	2.83		2.22	1.97	1.97	2.17		326.50		119.05

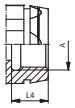
HH

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

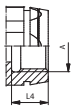


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HH-12.
* Insertion Male Tip.

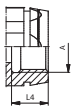
Series HH-31 ▪ BG 8 ▪ Nominal Size 31,5

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1 1/4"	78,5	43,9	M68x6	152,5	86	24	71,3	65	65	75	QRC-HH-31-F-G20-BT-W3	292,60	QRC-HH-31-M-G20-B-W3	105,50
		3.09	1.73		6.01	3.39	.94	2.81	2.56	2.56	2.95		632.73		231.49
	NPTF 1 1/4" -11 1/2	78,5	43,9	M68x6	152,5	86		71,3	65	65	75	QRC-HH-31-F-NF20-BT-W3	295	QRC-HH-31-M-NF20-B-W3	109,20
		3.09	1.73		6.01	3.39		2.81	2.56	2.56	2.95		650.36		240.74

Series HH-38 ▪ BG 10 ▪ Nominal Size 38

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1 1/2"	98	53,4	M78x6	172	95	27	79	75	80	90	QRC-HH-38-F-G24-BT-W3	444,40	QRC-HH-38-M-G24-B-W3	173,70
		3.86	2.10		6.77	3.74	1.06	3.11	2.95	3.15	3.54		978.85		374.79
	NPTF 1 1/2" -11 1/2	98	53,4	M78x6	172	95		79	75	80	90	QRC-HH-38-F-NF24-BT-W3	447	QRC-HH-38-M-NF24-B-W3	172
		3.86	2.10		6.77	3.74		3.11	2.95	3.15	3.54		985.47		379.20

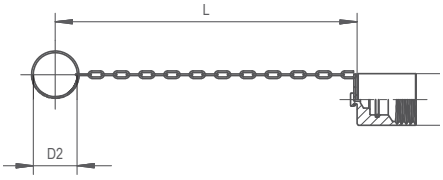
Series HH-51 ▪ BG 12 ▪ Nominal Size 51

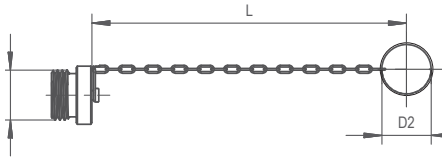
	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 2"	129	81,8	M115x8	206,5	118	27	97,1	100	110	125	QRC-HH-51-F-G32-BT-W3	856,50	QRC-HH-51-M-G32-B-W3	492,80
		5.07	3.22		8.13	4.65	1.06	3.82	3.94	4.33	4.92		1888.26		1086.88
	NPTF 2" -11 1/2	129	81,8	M115x8	206,5	118		97.1	100	110	125	QRC-HH-51-F-NF32-BT-W3	892,00	QRC-HH-51-M-NF32-B-W3	507
		5.07	3.22		8.13	4.65		3.82	3.94	4.33	4.92		1966.52		1117.74

HH

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HH ▪ Dust Protection





Dimensions (mm/in)			Material	Dust Cap for Male Tip
D1	D2	L		Ordering Codes
34	30	240	Aluminium with chain	QRC-HH-10-DM-30/CN-W89-SI
1.34	1.18	9.45		
38	30	240	Aluminium with chain	QRC-HH-12-DM-30/CN-W89-SI
1.50	1.18	9.45		
48	41	290	Aluminium with chain	QRC-HH-19-DM-41/CN-W89-SI
1.89	1.61	11.42		
58	48	300	Aluminium with chain	QRC-HH-25-DM-48/CN-W89-SI
2.28	1.89	11.81		
81	48	400	Aluminium with chain	QRC-HH-31-DM-48/CN-W89-SI
3.19	1.89	15.75		
85	46	260	Aluminium with chain	QRC-HH-38-DM-46/CN-W89-SI
3.35	1.81	10.24		
100	46	300	Aluminium with chain	QRC-HH-51-DM-46/CN-W89-SI
3.94	1.81	11.81		

Dimensions (mm/in)			Material	Dust Plug for Female Body
D1	D2	L		Ordering Codes
34	30	190	Aluminium with chain	QRC-HH-10-DF-30/CN-W89-SI
1.34	1.18	7.48		
34	30	240	Aluminium with chain	QRC-HH-12-DF-30/CN-W89-SI
1.34	1.18	9.45		
53	48	300	Aluminium with chain	QRC-HH-19-DF-48/CN-W89-SI
2.09	1.89	11.81		
53	41	290	Aluminium with chain	QRC-HH-25-DF-41/CN-W89-SI
2.09	1.61	11.42		
71	48	400	Aluminium with chain	QRC-HH-31-DF-48/CN-W89-SI
2.80	1.89	15.75		
98	46	210	Aluminium with chain	QRC-HH-38-DF-46/CN-W89-SI
3.86	1.81	8.27		
115	46	270	Aluminium with chain	QRC-HH-51-DF-46/CN-W89-SI
4.53	1.81	10.63		

Series HH ▪ Stainless Steel

Product Description

Screw-to-connect couplings of the HH Series made of stainless steel from STAUFF consist of a female body with a screw sleeve and a male tip with external thread. The Series is developed for high working pressure applications for connecting hydraulic lines up to DN51 (2").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in high pressure applications and available in nominal sizes 10, 12,5, 19, 25, 31, 38, 51 (3/8" - 2").

Features

- Poppet Valve
- Coupling made of stainless steel
- Connect under pressure
- Heavy duty internal components
- Wide of range for normal sizes up to DN51 (2'')

Applications

High Pressure Applications

Top Features

kg

Connect Under pressure

Designed for secure connection

Series HH ▪ Stainless Steel

Material	Stainless Steel V4A (AISI 316)
Surface Finishing	-
Standard Seal Material(s)	FKM (Viton®) [2]
Working Temperature	-25° C ... +200° C / -13° F ... +392° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Male Tip or Female Body allowed
Application	Industrial Hydraulic, Offshore, Rescue and Tensioning Hydraulics
ISO Interchange	-

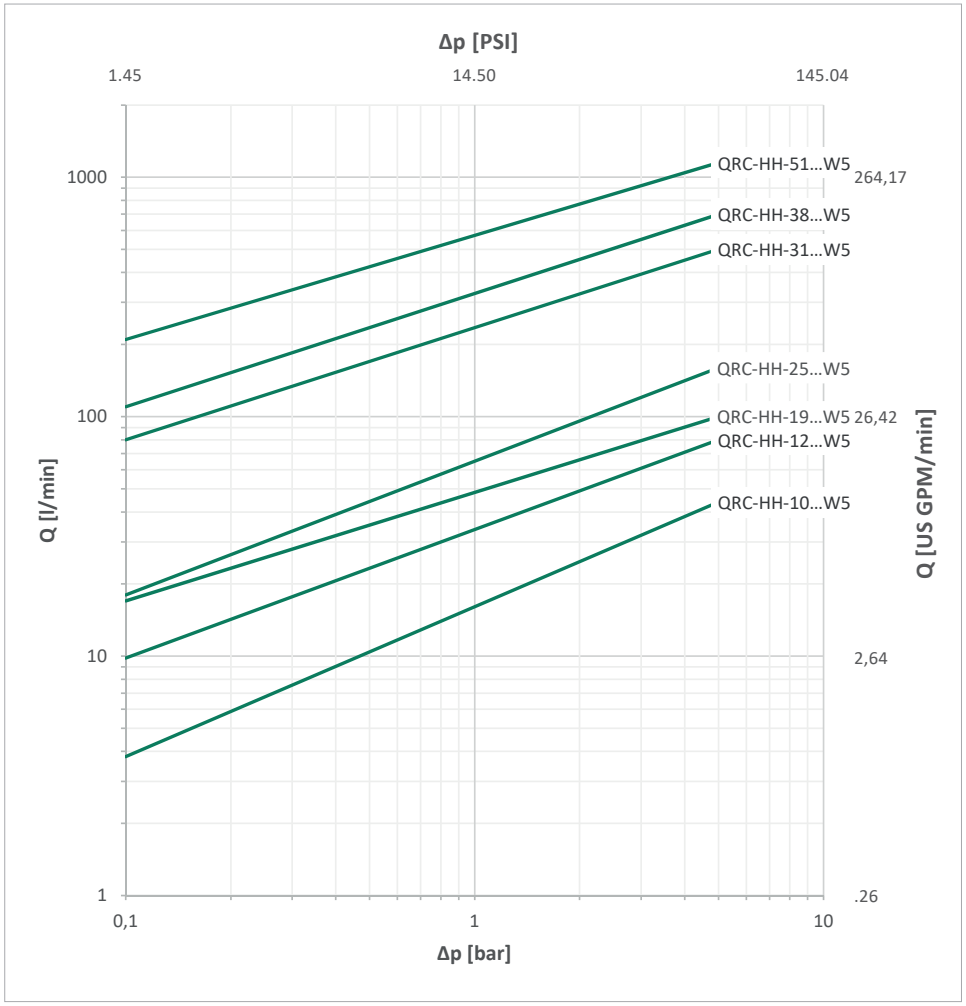
[2] Alternative seal materials are available on request.

Technical Data

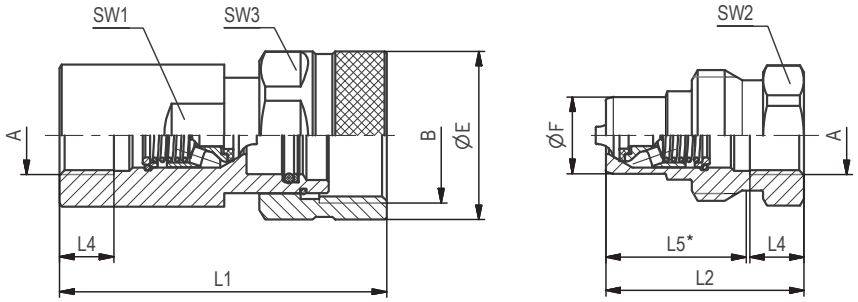
Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
HH-10	2	3/8"	10	18	4.76	650	9427	2200	31908	2400	34809	2200	31908	1,9	.0642
HH-12	3	1/2"	12,5	23	6.08	600	8702	2100	30458	2000	29008	1600	23206	2,7	.0913
HH-19	4	3/4"	19 (20)	45	11.89	500	7252	2000	29007	3000	43511	2800	40611	9,3	.3145
HH-25	6	1"	25	106	28.00	460	6672	1600	23206	1800	26107	1600	23206	16	.5410
HH-31	8	1 1/4''	31	189	49.93	400	5802	1400	20305	1900	27557	1600	23206	30	10.144
HH-38	10	1 1/2''	38	300	79.25	360	5221	1700	24656	1700	24656	1700	24656	54	18.260
HH-51	12	2"	51	757	199.98	210	3046	1050	15229	1600	23206	1400	20305	120	40.577

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

Flow Characteristics

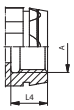


Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

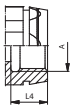


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HH-12.
* Insertion Male Tip.

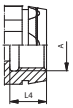
Series HH-10 ▪ BG 2 ▪ Nominal Size 10

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 3/8"	39	18,9	1 1/4" - 8 UN	76	48	14	34	30	32	36	QRC-HH-10-F-G06-VT-W5	38,15	QRC-HH-10-M-G06-V-W5	15,47
		1,54	0,74		2.99	1.89	.55	1.34	1.18	1.26	1.42		84.11		34.11
	NPTF 3/8" -18	39	18,9	1 1/4" - 8 UN	76	48		34	30	32	36	QRC-HH-10-F-NF06-VT-W5	36,10	QRC-HH-10-M-NF06-V-W5	15,74
		1,54	0,74		2.99	1.89		1.34	1.18	1.26	1.42		79.59		34.70

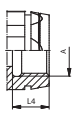
Series HH-12 ▪ BG 3 ▪ Nominal Size 12,5

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1/2"	45	20,5	1 3/8" - 8 UN	86,4	53	18	37,5	34	34	41	QRC-HH-12-F-G08-VT-W5	59,25	QRC-HH-12-M-G08-V-W5	19,26
		1.77	.81		3.40	2.09	.71	1.48	1.34	1.34	1.61		130.62		42.46
	NPTF 1/2" -14	45	20,5	1 3/8" - 8 UN	86,4	53		37,5	34	34	41	QRC-HH-12-F-NF08-VT-W5	59,84	QRC-HH-12-M-NF08-V-W5	19,55
		1.77	.81		3.40	2.09		1.48	1.34	1.34	1.61		131.92		43.10

Series HH-19 ▪ BG 4 ▪ Nominal Size 19

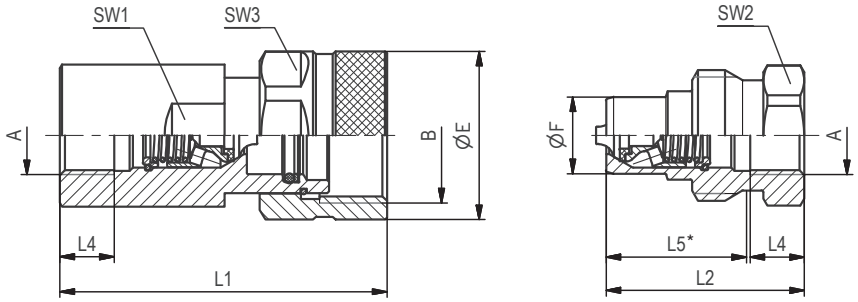
	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 3/4"	53,8	27,9	1 3/4" - 6 UN	105,5	63	21,5	48	41	46	50	QRC-HH-19-F-G12-VT-W5	94,88	QRC-HH-19-M-G12-V-W5	37,6
		2.12	1.10		4.15	2.48	.85	1.89	1.61	1.81	1.97		209.17		82.89
	NPFT 3/4" -14	53,8	27,9	1 3/4" - 6 UN	105,5	63		48	41	46	50	QRC-HH-19-F-NF12-VT-W5	95,75	QRC-HH-19-M-NF12-V-W5	38,51
		2.12	1.10		4.15	2.48		1.89	1.61	1.81	1.97		211.09		84.90

Series HH-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1"	58,8	31,3	M52x4	123	72	21,5	56	50	50	55	QRC-HH-25-F-G16-VT-W5	142,03	QRC-HH-25-M-G16-V-W5	53,84
		2.31	1.23		4.84	2.83	.85	2.20	1.97	1.97	2.17		313.12		118.70
	NPTF 1" -11 1/2	58,8	31,3	M52x4	123	72		56	50	50	55	QRC-HH-25-F-NF16-VT-W5	149,11	QRC-HH-25-M-NF16-V-W5	55,02
		2.31	1.23		4.84	2.83		2.20	1.97	1.97	2.17		328.73		121.30

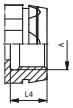
HH

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

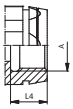


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HH-12.
* Insertion Male Tip.

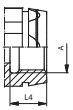
Series HH-31 ▪ BG 8 ▪ Nominal Size 31,5

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1 1/4"	80	44	M68x6	153	86	20	72	65	65	75	QRC-HH-31-F-G20-VT-W5	293,30	QRC-HH-31-M-G20-V-W5	107,40
		3.15	1.73		6.02	3.39	.79	2.83	2.56	2.56	2.95		646.62		236.78
	NPTF 1 1/4" -11 1/2	80	44	M68x6	153	86		72	65	65	75	QRC-HH-31-F-NF20-VT-W5	295	QRC-HH-31-M-NF20-V-W5	109,20
		3.15	1.73		6.02	3.39		2.83	2,56	2.56	2.95		650.36		240.74

Series HH-38 ▪ BG 10 ▪ Nominal Size 38

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 1 1/2"	98	53,4	M78x6	172	95	22	80	75	80	90	QRC-HH-38-F-G24-VT-W5	455	QRC-HH-38-M-G24-V-W5	173,40
		3.86	2.10		6.77	3.74	.87	3.15	2.95	3.15	3.54		1003.10		382.28
	NPTF 1 1/2" -11 1/2	98	53,4	M78x6	172	95		80	75	80	90	QRC-HH-38-F-NF24-VT-W5	457	QRC-HH-38-M-NF24-V-W5	173
		3.86	2.10		6.77	3.74		3.15	2.95	3.15	3.54		1007.51		381.40

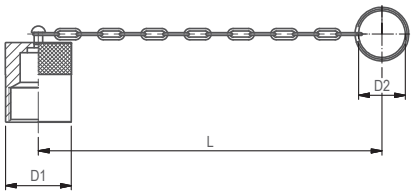
Series HH-51 ▪ BG 12 ▪ Nominal Size 51

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3														
	G 2"	129	81,8	M115x8	205	118	24	96	100	110	125	QRC-HH-51-F-G32-VT-W5	888	QRC-HH-51-M-G32-V-W5	503
		5.07	3.22		8.07	4.65	.94	3.78	3.93	4.33	4.92		1957.71		1108.93
	NPTF 2" -11 1/2	129	81,8	M115x8	205	118		96	100	110	125	QRC-HH-51-F-NF32-VT-W5	892	QRC-HH-51-M-NF32-V-W5	507
		5.07	3.22		8.07	4.65		3.78	3.93	4.33	4.92		1966.52		1117.74

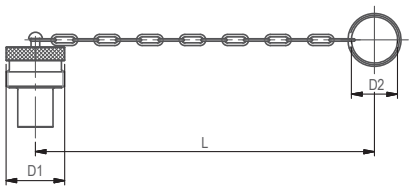
HH

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HH ▪ Dust Protection



Dimensions (mm/in)			Material	Dust Cap for Male Tip
D1	D2	L		Ordering Codes
34	30	240	Aluminium with chain	QRC-HH-10-DM-30/CN-W89-SI
1.34	1.18	9.45		
38	30	240	Aluminium with chain	QRC-HH-12-DM-30/CN-W89-SI
1.50	1.18	9.45		
48	41	290	Aluminium with chain	QRC-HH-19-DM-41/CN-W89-SI
1.89	1.61	11.42		
58	48	300	Aluminium with chain	QRC-HH-25-DM-48/CN-W89-SI
2.28	1.89	11.81		
81	48	400	Aluminium with chain	QRC-HH-31-DM-48/CN-W89-SI
3.19	1.89	15.75		
85	46	260	Aluminium with chain	QRC-HH-38-DM-46/CN-W89-SI
3.35	1.81	10.24		
100	46	300	Aluminium with chain	QRC-HH-51-DM-46/CN-W89-SI
3.94	1.81	11.81		



Dimensions (mm/in)			Material	Dust Plug for Female Body
D1	D2	L		Ordering Codes
34	30	240	Aluminium with chain	QRC-HH-10-DF-30/CN-W89-SI
1.34	1.18	9.45		
34	30	240	Aluminium with chain	QRC-HH-12-DF-30/CN-W89-SI
1.34	1.18	9.45		
53	48	300	Aluminium with chain	QRC-HH-19-DF-48/CN-W89-SI
2.09	1.89	11.81		
53	41	290	Aluminium with chain	QRC-HH-25-DF-41/CN-W89-SI
2.09	1.61	11.42		
71	48	400	Aluminium with chain	QRC-HH-31-DF-48/CN-W89-SI
2.80	1.89	15.75		
98	46	210	Aluminium with chain	QRC-HH-38-DF-46/CN-W89-SI
3.86	1.81	8.27		
115	46	270	Aluminium with chain	QRC-HH-51-DF-46/CN-W89-SI
4.53	1.81	10.63		

Series HI ▪ Carbon Steel

Product Description

Screw-to-connect couplings of the HI Series from STAUFF consist of a female body with a screw sleeve and a male tip with external thread. The Series is developed for high working pressure applications according to ISO 14540 and can be connected under residual pressure.

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in high pressure applications, such as cylinders and hydraulic tools and available in nominal sizes 6,3, 10 (1/4" - 3/8").

Features

- Poppet Valve (HI) or Ball Valve (HIB)
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Connect under residual pressure
- ISO Interchange acc. to ISO 14540

Applications

High Pressure Applications

Top Features

Zinc/Nickel coating

Vibration resistant

Connect Under residual pressure

Designed for secure connection

Series HI (HIB) ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Nickel
Standard Seal Material(s)	NBR (Buna-N®), PU [2]
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Poppet Valve (HI), Ball Valve (HIB) (optional)
Connection	Screw
Disconnection	Screw
Connect Under Pressure	not allowed
Application	Industrial Hydraulic, Rescue and Tensioning Hydraulics
ISO Interchange	ISO 14540

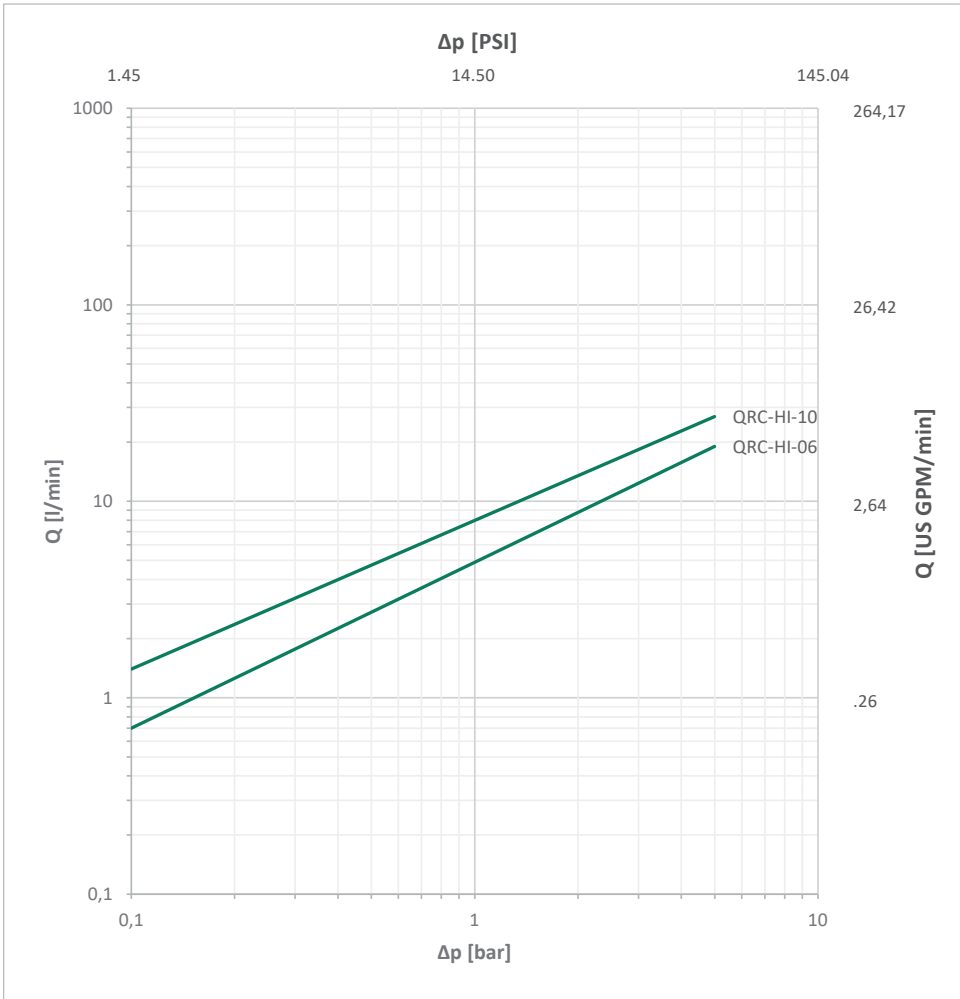
[2] Alternative seal materials are available on request.

Technical Data

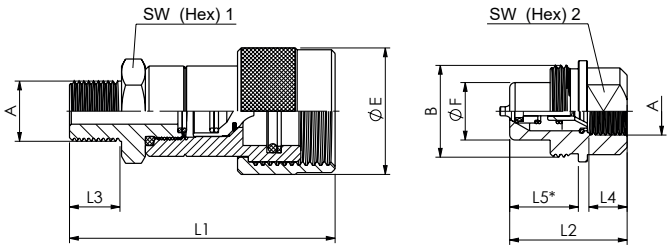
Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
HI-06	1	1/4"	6,3	18	4.76	720	10443	2160	31328	2160	31328	2160	31328	0,5	.0176
HI-10	2	3/8"	10	34,5	9.11	720	10443	2160	31328	2160	31328	2160	31328	1	.0352
HIB-06	1	1/4"	6,3	18	4.76	720	10443	2160	31328	1440	20885	1440	20885	0,5	.0176
HIB-10	2	3/8"	10	34,5	9.11	720	10443	2160	31328	1440	20885	1440	20885	1	.0352

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

Flow Characteristics

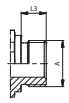
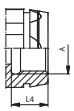


Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

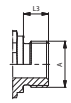
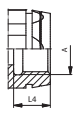


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HI-10.
* Insertion Male Tip.

Series HI-06 ▪ BG 1 ▪ Nominal Size 6,3

	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread according to ANSI B 1.20.3													
	NPTF 1/4" -18	28,6	15,9	1“ - 18 UNS	59,7	32,5		19	22	19	QRC-HI-06-F-NF04M-S1-W3	11,56		
		1.13	.63		2.35	1.28		.75	.87	.75		25.49		
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3													
	G 1/4"	28,6	15,9	1“ - 18 UNS	59,7	32,5	12	19	22	19	QRC-HI-06-F-G04-S1-W3	11,39	QRC-HI-06-M-G04-BP-W3	7,05
		1.13	.63		2.35	1.28	.47	.75	.87	.75		25.11		15.54
	NPTF 1/4" -18	28,6	15,9	1“ - 18 UNS	59,7	32,5		19	22	19	QRC-HI-06-F-NF04-S1-W3	11,56	QRC-HI-06-M-NF04-BP-W3	7,12
		1.13	.63		2.35	1.28		.75	.87	.75		25.49		15.70

Series HI-10 ▪ BG 2 ▪ Nominal Size 10

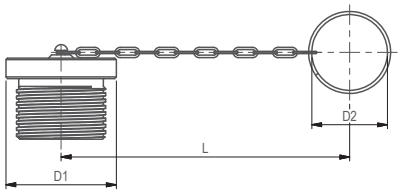
	Port A	Dimensions (mm/in) ØE	ØF	B	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Male Thread according to ANSI B 1.20.3													
	NPTF 3/8" -18	35	19	1“3/16-16UN	73,5			25	25	32	QRC-HI-10-F-NF06M-S1-W3	23,21		
		1.38	.75		2.89			.98	.98	1.26		51.17		
	Female Thread according to ANSI B 1.20.3													
	NPTF 3/8" -18	35	19	1“3/16-16UN		35		25	25	32			QRC-HI-10-M-NF06-BP-W3	11,38
		1.38	.75			1.38		.98	.98	1.26				25.09

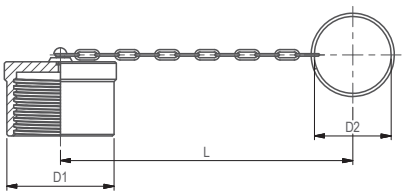
In addition to the version with poppet valve is a version with ball valve available.
Please use for these version the code HIB instead of HI.

HI

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HI▪ Dust Protection





Dimensions (mm/in)			Material	Dust Plug for Female Body
D1	D2	L		Ordering Codes
28,6	14	161	Carbon Steel with chain	QRC-HI-06-DM-14/CN-W3
1.13	.55	6.34		
35	14	161	Carbon Steel with chain	QRC-HI-10-DF-14/CN-W3
1.38	.55	6.34		

Dimensions (mm/in)			Material	Dust Cap for Male Tip
D1	D2	L		Ordering Codes
28	14	161	Carbon Steel with chain	QRC-HI-06-DF-14/CN-W3
1.10	.55	6.34		
35	14	161	Carbon Steel with chain	QRC-HI-10-DM-14/CN-W3
1.38	.55	6.34		

* Available on request.

Series HT ▪ Carbon Steel

Product Description

Screw-to-connect couplings of the HT Series from STAUFF consist of a female body with a winged screw sleeve and a male tip with external thread.

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

Series HT are used on Hydraulic tippers, commercial vehicle trailers, agricultural and construction equipment and available in nominal sizes 19, 25 (3/4" - 1").

Features

- Poppet Valve
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Heavy duty internal components
- Connect under residual pressure

Applications

Hydraulic tippers

Top Features

Zinc/Nickel coating

Vibration resistant

Connect Under residual pressure

Designed for secure connection

Series HT ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Nickel
Standard Seal Material(s)	NBR (Buna-N®) [2]
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	not allowed
Application	Industrial Hydraulic
ISO Interchange	-

[2] Alternative seal materials are available on request.

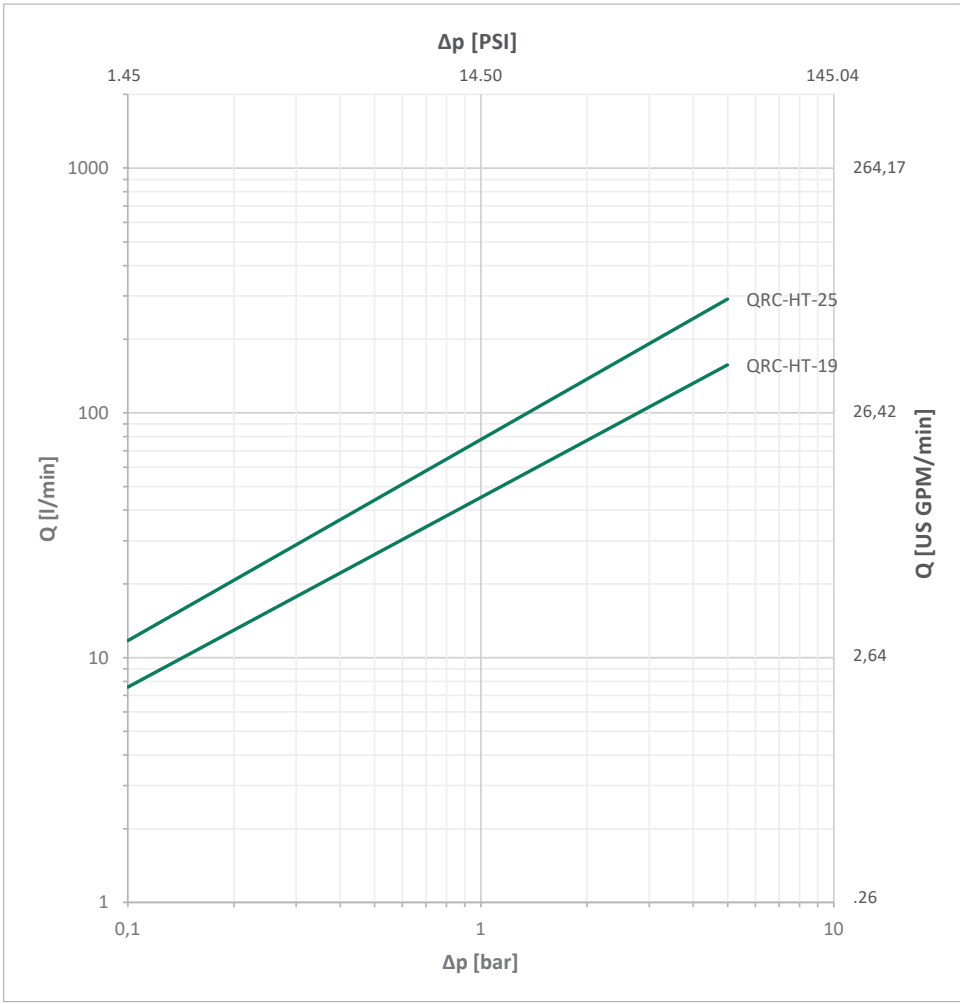
Male Tip Female Body

Technical Data

Series	BG	DN Zoll Inch	DN metric ISO 4397	Q_{max} l/min	Q_{max} US GPM	Working Pressure bar	Working Pressure PSI	Bursting Pressure Connected bar	Bursting Pressure Connected PSI	Bursting Pressure Female Body bar	Bursting Pressure Female Body PSI	Bursting Pressure Male Tip bar	Bursting Pressure Male Tip PSI	Spillage ml	Spillage fl oz
HT-19	4	3/4"	19 (20)	159	42.00	350	5076	1300	18855	1000	14504	1000	14504	10	.3381
HT-25	6	1"	25	283,5	74.89	300	4351	1000	14504	1000	14504	1000	14504	15	.5072

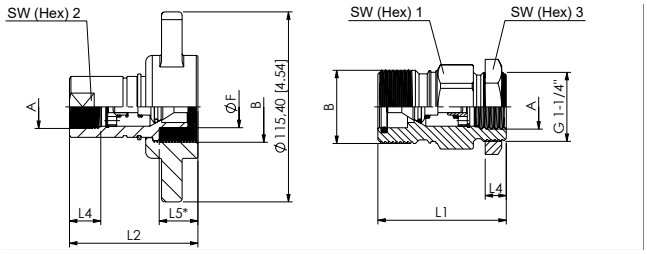
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Flow Characteristics



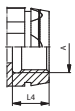
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

HT

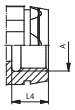


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HT-25.
* Insertion Male Tip.

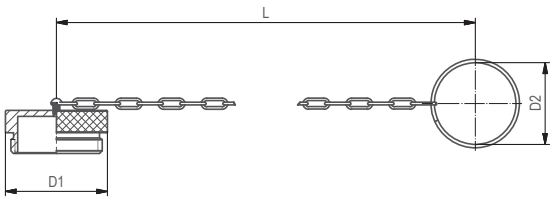
Series HT-19 ▪ BG 4 ▪ Nominal Size 19

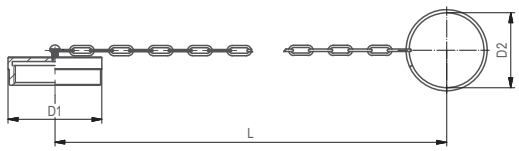
	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 3/4"	1 3/4" - 12 UN	25,3	78	78	16	23,5	46	33	50	QRC-HT-19-F-G12-B-W3	85,05	QRC-HT-19-M-G12-B-W3	74,61
			1.00	3.07	3.07	.63	.93	1.81	1.30	1.97		187.50		164.49

Series HT-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØB	ØF	L1	L2	L4 min	L5	SW1	SW2	SW3	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to DIN 3852 - ISO 1179-1													
	G 1"	UNS 2 1/8"	31,7	83	83	24	21	55	40	50	QRC-HT-25-F-G16-B-W3	90,88	QRC-HT-25-M-G16-B-W3	94,79
			1.25	3.27	3.27	.94	.83	2.17	1.57	1.97		200.36		208.98

Series HT ▪ Dust Protection





Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Female Body Ordering Codes
48,2	45	205	Carbon Steel with Steel cable	QRC-HT-19-DF-41/CN-W3
1.90	1.95	8.07		
59,5	54	205	Carbon Steel with Steel cable	QRC-HT-25-DF-49/CN-W3
2.34	2.13	8.07		

Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Male Tip Ordering Codes
49,5	45	205	Carbon Steel with Steel cable	QRC-HT-19-DM-41/CN-W3
1.95	1.95	8.07		
59,5	54	205	Carbon Steel with Steel cable	QRC-HT-25-DM-49/CN-W3
2.34	2.13	8.07		

HT

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HM ▪ Carbon Steel and Brass

Product Description

Screw-to-connect couplings of the HM Series from STAUFF consist of a female body with a winged screw sleeve and a male tip with external thread.

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

Series HM are used on hydraulic tippers and available in nominal sizes 19, 25, 31, 38 (3/4" - 1 1/2").

Features

- Flat Valve
- Coupling made from brass and carbon steel
- Heavy duty internal components
- blowout proof seals

Applications

Hydraulic tippers

Oil and gas industry

Top Features

Designed for secure connection

Vibration resistant

Series HM ▪ Carbon Steel and Brass

Material	Brass and Carbon Steel
Surface Finishing	Carbon Steel: Zinc-Plating and Thick-Film-Passivation (Chrome III)
Standard Seal Material(s)	NBR (Buna-N®) [2]
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Flat Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	not allowed
Application	Industrial Hydraulic
ISO Interchange	-

[2] Alternative seal materials are available on request.

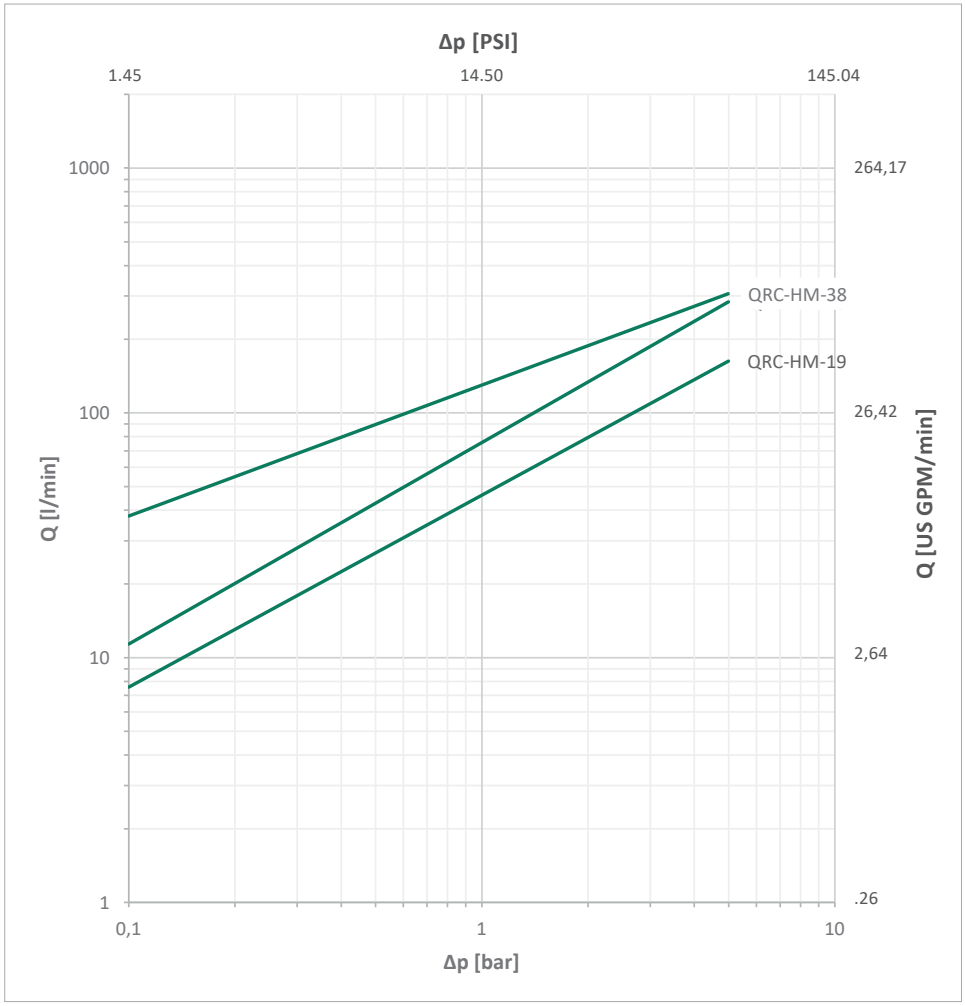
Male Tip Female Body

Technical Data

Series	BG	DN Zoll	DN metric	Q_{max}		Working Pressure		Bursting Pressure Connected		Female Body		Male Tip		Spillage	
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
HM-19	4	3/4"	19 (20)	220	58.12	210	3046	1160	16824	460	6672	580	8412	0,15	.0051
HM-25	6	1"	25	260	68.68	210	3046	880	12763	370	5366	720	10443	0,4	.0135
HM-31	8	1 1/4''	31	400	105.67	190	2756	520	7542	430	6237	570	8267	0,65	.0220
HM-38	10	1 1/2''	38	600	158.50	170	2466	500	7252	430	6237	350	5076	0,85	.0287

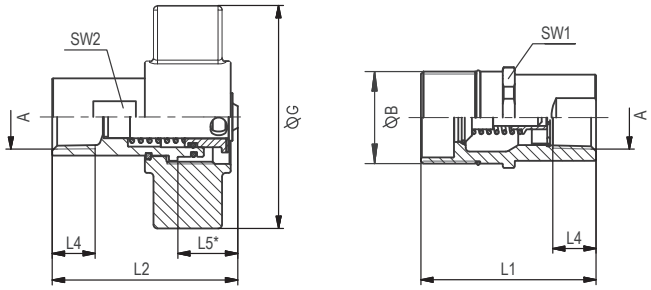
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

Flow Characteristics



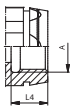
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

HM

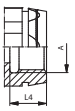


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HM-25.
* Insertion Male Tip.

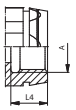
Series HM-19 ▪ BG 4 ▪ Nominal Size 19

	Port A	Dimensions (mm/in) ØB	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 1/2" -14	1"1/2 - 12 UNF	106	79	78			41	29	QRC-HM-19-F-NF08-BT-W162	63,50	QRC-HM-19-M-NF08-B-W162	43
			4.17	3.11	3.07			1"5/8	1"1/8		139.99		94.80
	NPFT 3/4" -14	1"1/2 - 12 UNF	106	79	78			41	29	QRC-HM-19-F-NF12-BT-W162	60,20	QRC-HM-19-M-NF12-B-W162	39,50
			4.17	3.11	3.07			1"5/8	1"1/8		132.72		87.08

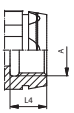
Series HM-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØB	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 1" -11 1/2	1"7/8 - 12 UN	109,7	90	98,7			47,5	36	QRC-HM-25-F-NF16-BT-W162	104	QRC-HM-25-M-NF16-B-W162	63,30
			4.32	3.54	3.89			1"7/8	1"7/16		229.28		139.55

Series HM-31 ▪ BG 8 ▪ Nominal Size 31,5

	Port A	Dimensions (mm/in) ØB	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 1 1/4" -11 1/2	2"1/8 - 12 UN	131,7	92,7	104,5			54	45	QRC-HM-31-F-NF20-BT-W162	125,50	QRC-HM-31-M-NF20-B-W162	76,50
			5.19	3.65	4.11			2"3/18	1"3/4		276.68		168.65

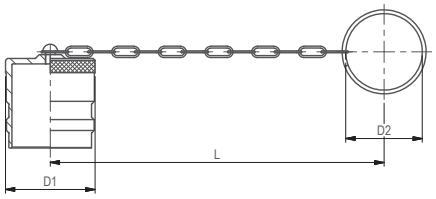
Series HM-38 ▪ BG 10 ▪ Nominal Size 38

	Port A	Dimensions (mm/in) ØB	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 1 1/2" -11 1/2	2"1/2 - 12 UN	136	95	92,7			63,5	53,5	QRC-HM-38-F-NF24-BT-W162	155	QRC-HM-38-M-NF24-B-W162	116
			5.35	3.74	3.65			2"1/2	2"		341.72		255.74

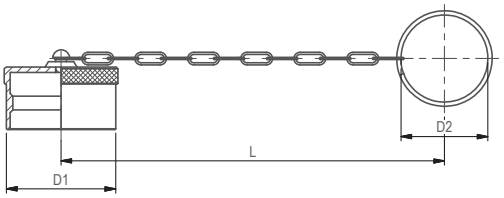
HM

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

Series HM ▪ Dust Protection



Dimensions (mm/in)			Material	Dust Plug for Female Body
D1	D2	L		Ordering Codes
40	30	210	Brass with chain	QRC-HM-19-DF-30/CN-W69
1.57	1.18	8.27		
48,0	41	270	Brass with chain	QRC-HM-25-DF-41/CN-W69
1.89	1.61	10.63		
56	48	280	Brass with chain	QRC-HM-31-DF-48/CN-W69
2.20	1.89	11.02		
63	48	280	Brass with chain	QRC-HM-38-DF-48/CN-W69
2.48	1.89	11.02		



Dimensions (mm/in)			Material	Dust Cap for Male Tip
D1	D2	L		Ordering Codes
41	30	210	Brass with chain	QRC-HM-19-DM-30/CN-W69
1.61	1.18	8.27		
53	41	270	Brass with chain	QRC-HM-25-DM-41/CN-W69
2.09	1.61	10.63		
62	48	280	Brass with chain	QRC-HM-31-DM-48/CN-W69
2.44	1.89	11.02		
69	48	280	Brass with chain	QRC-HM-38-DM-48/CN-W69
2.72	1.89	11.02		

Series HV ▪ Carbon Steel

Product Description

Screw-to-connect couplings of the HV Series from STAUFF consist of a female body with a winged screw sleeve and a male tip with external thread.

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in oil and gas industry as well as mobile equipment and heavy duty transportation, especially where high pressures, high flow and pulse pressure are present.

The design used heavy-duty ACME thread for durable connection strength and a heavy-duty poppet valve design that prevents seal washout under operating parameters.

Series HV are used on Hydraulic tippers and available in nominal sizes 19, 25, 31, 38, 51 (3/4" - 2").

Features

- Poppet Valve
- Zinc-Plating and Thick-Film-Passivation (Chrome III)
- Can be connect under pressure up to 100 bar (1450 PSI)

Applications

Construction Machinery

Oil and gas industry

Top Features

Designed for secure connection

Vibration resistant

Connect Under pressure

Series HV ▪ Carbon Steel

Material	Carbon Steel
Surface Finishing	Zinc-Plating and Thick-Film-Passivation (Chrome III)
Standard Seal Material(s)	NBR (Buna-N®) [2]
Working Temperature	-25° C ... +100° C / -13° F ... +212° F
Valve Design	Poppet Valve
Connection	Screw
Disconnection	Screw
Connect Under Pressure	Male Tip and Female Body up to max. 100 bar / 1450 PSI allowed
Application	Industrial Hydraulic
ISO Interchange	-

[2] Alternative seal materials are available on request.

Male Tip

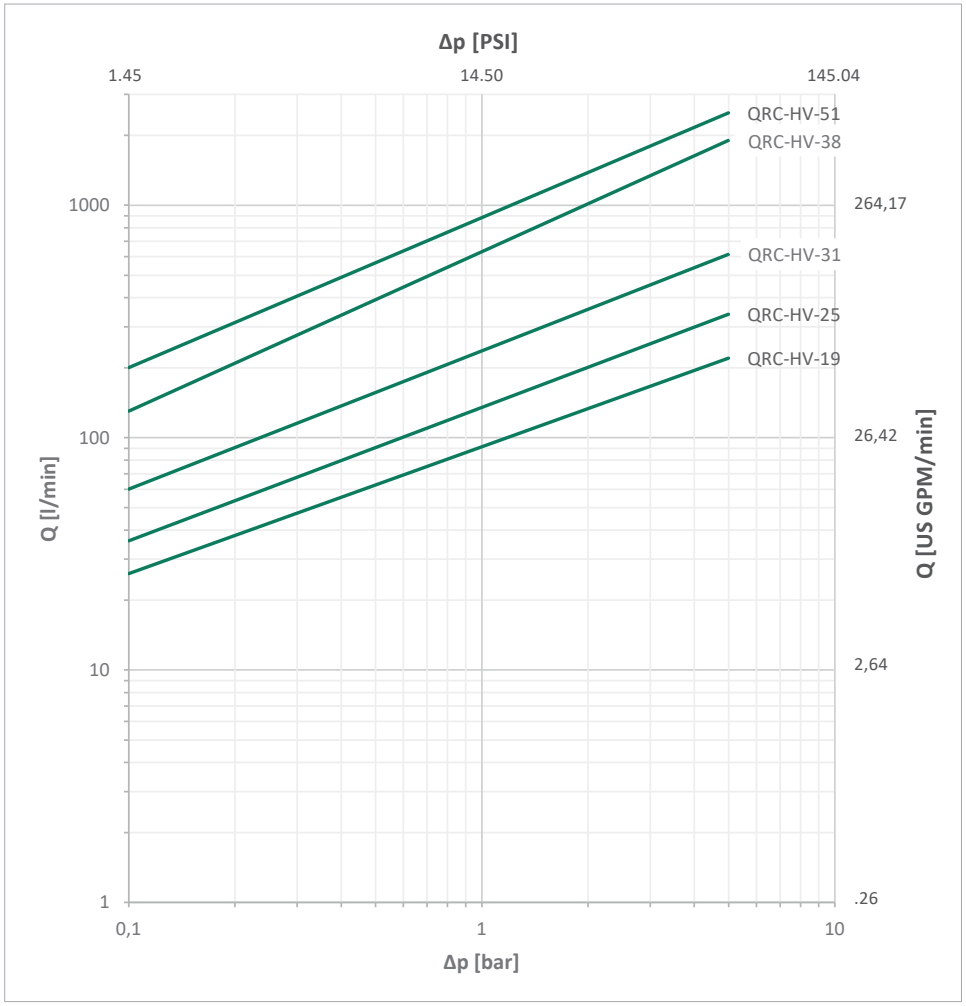
Female Body

Technical Data

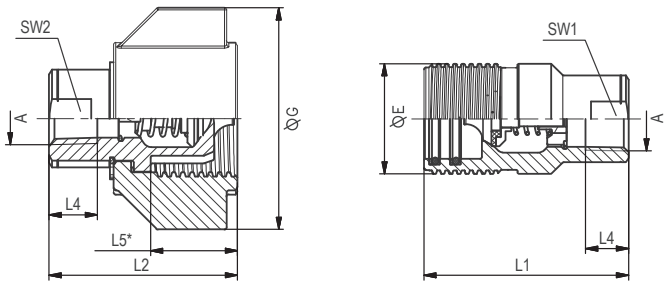
Series	BG	DN Zoll Inch	DN metric ISO 4397	Q_{max} l/min	Q_{max} US GPM	Working Pressure bar	Working Pressure PSI	Bursting Pressure Connected bar	Bursting Pressure Connected PSI	Bursting Pressure Female Body bar	Bursting Pressure Female Body PSI	Bursting Pressure Male Tip bar	Bursting Pressure Male Tip PSI	Spillage ml	Spillage fl oz
HV-19	4	3/4"	19 (20)	190	50.19	350	5076	1500	21756	750	10878	1400	20305	8	.2705
HV-25	6	1"	25	280	73.97	350	5076	1600	23206	900	13053	1500	21756	16	.5410
HV-31	8	1 1/4''	31	480	126.80	350	5076	1300	18855	850	12328	1600	23206	31	10.482
HV-38	10	1 1/2''	38	700	184.92	350	5076	1200	17405	600	8702	900	13053	64	21.641
HV-51	12	2"	51	1000	264.17	350	5076	1100	15954	500	7252	600	8702	141	47.678

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

Flow Characteristics

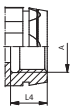


Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

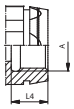


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HV-25.
* Insertion Male Tip.

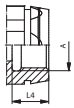
Series HV-19 ▪ BG 4 ▪ Nominal Size 19

	Port A	Dimensions (mm/in) ØE	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPFT 3/4" -14	44,5	72	83	62		22	31,8	31,8	QRC-HV-19-F-NF12-BT-W66	84	QRC-HV-19-M-NF12-B-W66	48
		1.75	2.83	3.27	2.44		0.87	1"1/4	1"1/4		185.19		105.82

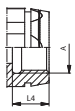
Series HV-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (mm/in) ØE	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 1" -11 1/2	57	102	106	87,6		39,95	41,3	41,3	QRC-HV-25-F-NF16-BT-W66	114,50	QRC-HV-25-M-NF16-B-W66	110
		2.25	4.01	4.17	3.45		1.57	1"5/8	1"5/8		252.43		242.51

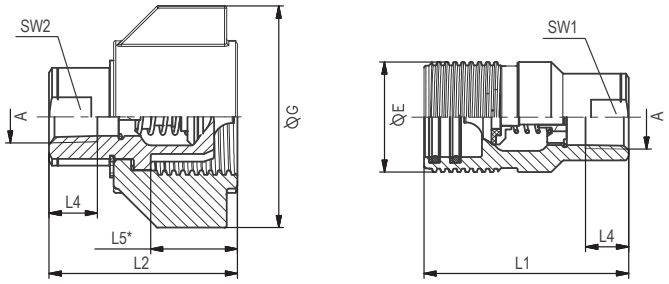
Series HV-31 ▪ BG 8 ▪ Nominal Size 31,5

	Port A	Dimensions (mm/in) ØE	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 1 1/4" -11 1/2	66,5		136	113		51			QRC-HV-31-F-NF20-BT-W66	253	QRC-HV-31-M-NF20-B-W66	187
		2.62		5.35	4.45		12.01				557.77		412.26

Series HV-38 ▪ BG 10 ▪ Nominal Size 38

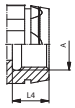
	Port A	Dimensions (mm/in) ØE	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 1 1/2" -11 1/2	82,5	140	152	133,3		64,3			QRC-HV-38-F-NF24-BT-W66	401	QRC-HV-38-M-NF24-B-W66	310
		3.25	5.51	5.98	5.25		2.53				884.05		683.43

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.

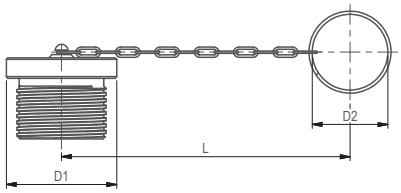


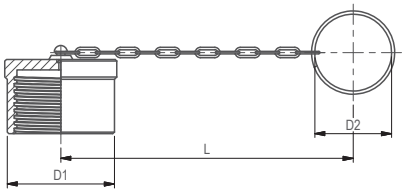
SW: Width across flats. All dimensions in mm (inch). Drawing similar Series HV-25.
* Insertion Male Tip.

Series HV-51 ▪ BG 12 ▪ Nominal Size 51

	Port A	Dimensions (mm/in) ØE	ØG	L1	L2	L4 min	L5	SW1	SW2	Female Body Ordering Codes	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	Female Thread according to ANSI B 1.20.3												
	NPTF 2" -11 1/2	101	162	179	151,5		75,5			QRC-HV-51-F-NF32-BT-W66	793,50	QRC-HV-51-M-NF32-B-W66	557
		3.97	6.37	7.05	5.96		2.97				1749.67		1227.98

Series HV ▪ Dust Protection





Dimensions (mm/in) D1	D2	L	Material	Dust Plug for Female Body Ordering Codes
			Aluminium with chain	QRC-HV-19-DF-CN-W89-SI*
69,5	48	270	Aluminium with chain	QRC-HV-25-DF-48/CN-W89-SI
2.74	1.89	10.63		
75,5	49	270	Aluminium with chain	QRC-HV-31-DF-49/CN-W89-SI
2.97	1.93	10.63		
95,5	48	280	Aluminium with chain	QRC-HV-38-DF-48/CN-W89-SI
3.76	1.89	11.02		
113,5	85	450	Aluminium with chain	QRC-HV-51-DF-CN-W89-SI*
4.47	3.35	17.72		

Dimensions (mm/in) D1	D2	L	Material	Dust Cap for Male Tip Ordering Codes
			Aluminium with chain	QRC-HV-19-DM-CN-W89-SI*
70	48	270	Aluminium with chain	QRC-HV-25-DM-48/CN-W89-SI
2.76	1.89	10.63		
80,5	49	270	Aluminium with chain	QRC-HV-31-DM-49/CN-W89-SI
3.17	1.93	10.63		
96	48	280	Aluminium with chain	QRC-HV-38-DM-48/CN-W89-SI
3.78	1.89	11.02		
			Aluminium with chain	QRC-HV-51-DM-CN-W89-SI*

* Available on request.

Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction of the coupling.