

Series IB • Carbon Steel
Product Description

Push-to-Connect couplings of the IB Series from STAUFF consist of a male tip and a female body which are used for quick and easy connection (push) and disconnection of tubes, pipes and hoses by hand, i.e. without tools.

The Series was developed according to ISO 7241-1 B in the following nominal sizes 03, 06, 10, 12, 19, 25, 31, 38, 51 (1/8" - 2").

The proven design is suitable for use in industrial Hydraulic. Other applications may, depending on the pressure and flow characteristics, include construction equipment, oil tools, oil equipment steel mill machinery, and other demanding industrial hydraulic applications.

Features

- poppet valve
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Integrated locking system preventing unintentional release of the coupling
- ISO Interchange acc. to ISO 7241-1 Series B

Applications


Industrial Hydraulic

Top Features


Zinc/Nickel coating



Designed for secure connection



Series IB ■ 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	Push and actuate Push Sleeve
Disconnection	Actuate Push Sleeve
Connect Under Pressure	not allowed
Application	Industrial Hydraulic
ISO Interchange	ISO 7241-1, Series B

² Alternative seal materials are available on request.



Technical Data

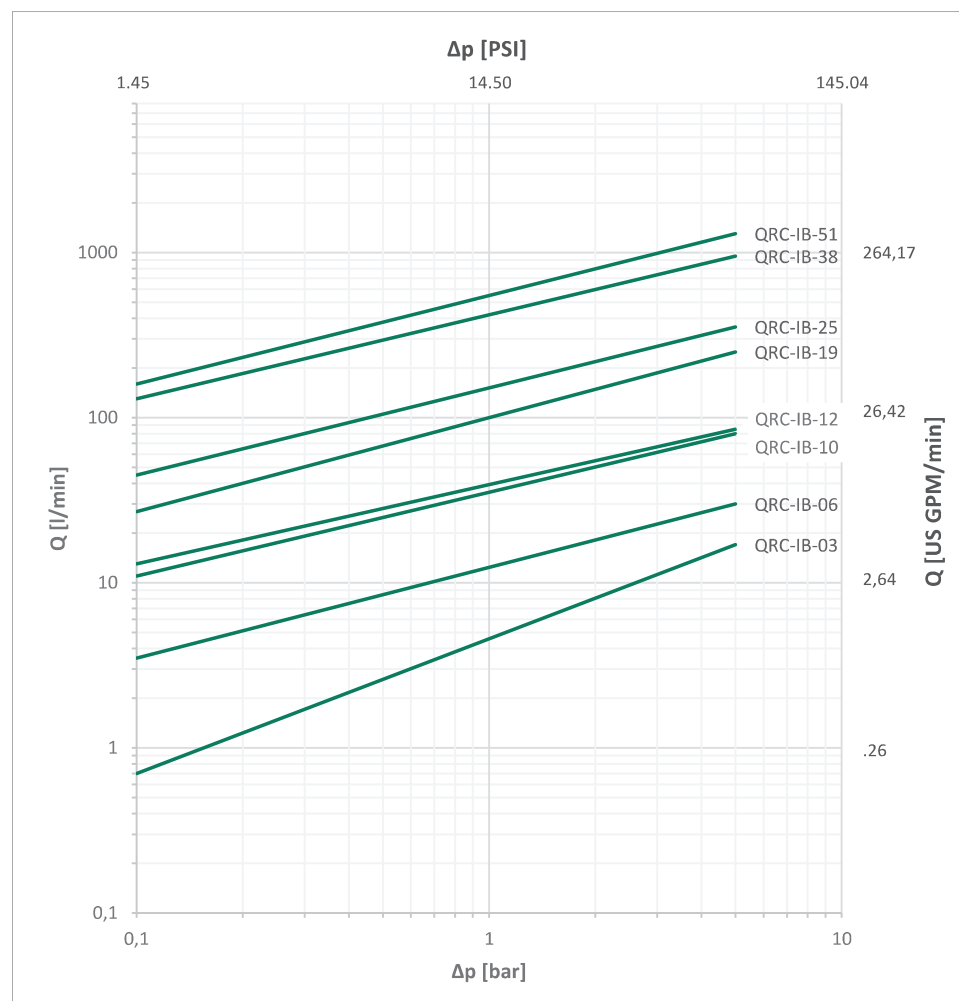
Series	BG	DN	DN	Q _{max}	Working Pressure			Bursting Pressure		Female Body		Male Tip		Spillage	
		Zoll	metric					Connected	PSI						
		Inch	ISO 4397	l/min	US GPM	bar	PSI	bar	PSI	bar	PSI	bar	PSI	ml	fl oz
IB-03*	0	1/8"	3	4,5	1.19	300	4351	2000	29008	2300	33359	2400	34809	0,5	.0169
IB-06	1	1/4"	6,3	18	4.76	250	3626	1250	18130	1250	18130	1250	18130	1	.0338
IB-10	2	3/8"	10	34,5	9.11	250	3626	1250	18130	1250	18130	1250	18130	2,4	.0812
IB-12	3	1/2"	12,5	67,5	17.83	250	3626	1250	18130	1250	18130	1250	18130	3,9	.1319
IB-19	4	3/4"	19 (20)	159	42.00	250	3626	1000	14504	1000	14504	1000	14504	11	.3720
IB-25	6	1"	25	378	99.86	200	2901	1000	14504	1000	14504	1000	14504	19	.6425
IB-38	8	1 1/2"	38	562	148.47	75	1088	400	5802	400	5802	400	5802	95	32.123
IB-51	9	2"	51	840	221.91	50	725	500	7252	500	7252	500	7252	170	57.484

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

Up to DN 25 acc. to ISO 7241-1, Series B

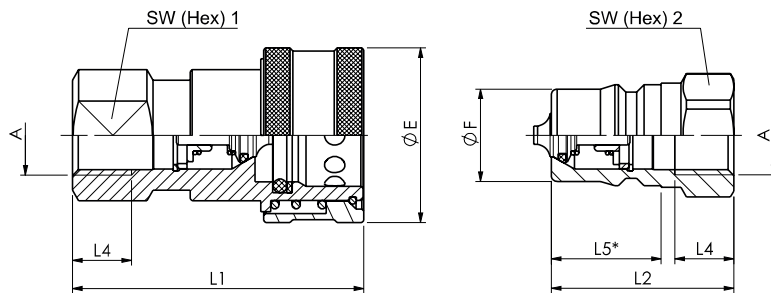
*complys to DN 5

Flow Characteristics



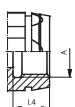
Please note: Unless otherwise stated, all flow characteristics have been determined with hydraulic oil with a kinematic viscosity of 28,8 - 35,2 mm²/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.



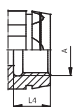
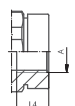


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series IB-12.
* Insertion Male Tip.

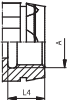
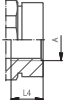
Series IB-03 ▪ BG 0 ▪ Nominal Size 3,2

	Port A	Dimensions (^{mm} / _{in})								Female Body	Weight (^{kg} / _{lbs}) ca.	Male Tip	Weight (^{kg} / _{lbs}) ca.
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2	Ordering Codes	per 100	Ordering Codes	per 100
		Female Thread according to ANSI B 1.20.3											
	NPTF 1/8" -27	24	10,9	103	29			17	14	QRC-IB-03-F-NF02-BT-W3	8,90	QRC-IB-03-M-NF02-B-W3	2
		.94	.43	4.06	1.14			.67	.55		19.62		4.41

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

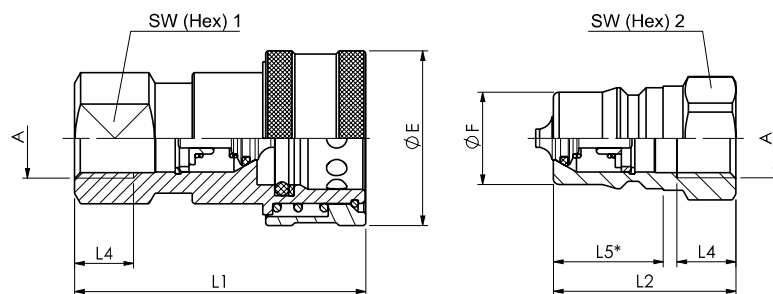
	Port A	Dimensions (^{mm} / _{in})								Female Body	Weight (^{kg} / _{lbs}) ca. per 100	Male Tip	Weight (^{kg} / _{lbs}) ca. per 100
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2	Ordering Codes		Ordering Codes	
Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3													
	G 1/4"	28,5	14,2	58	36	13	21,5	19	19	QRC-IB-06-F-G04-BT-W3	13,5	QRC-IB-06-M-G04-B-W3	3,81
		1.12	.56	2.28	1.42	.51	.85	.75	.75		29.76		8.40
	NPTF 1/4" -18	28,5	14,2	58	36		21,5	19	19	QRC-IB-06-F-NF04-BT-W3	13,51	QRC-IB-06-M-NF04-B-W3	3,82
		1.12	.56	2.28	1.42		.85	.75	.75		29.78		8.42
Female Thread according to SAE J 1926-1													
	UNF 9/16" -18	28,5	14,2	58	36	13	21,8	19	19	QRC-IB-06-F-U06-BT-W3	12,60	QRC-IB-06-M-U06-B-W3	3,56
		1.12	.56	2.28	1.42	.51	.86	.75	.75		27.78		7.85

Series IB-10 ▪ BG 2 ▪ Nominal Size 10

	Port A	Dimensions (^{mm} / _{in})								Female Body	Weight (^{kg} / _{lbs}) ca. per 100	Male Tip	Weight (^{kg} / _{lbs}) ca. per 100
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2	Ordering Codes		Ordering Codes	
Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3													
	G 3/8"	35	19,1	65	40	13	24,2	24	24	QRC-IB-10-F-G06-BT-W3	22,59	QRC-IB-10-M-G06-B-W3	6,82
		1.38	.75	2.56	1.57	.51	.95	.94	.94		49.80		15.04
	NPTF 3/8" -18	35	19,1	65	40		24,2	24	24	QRC-IB-10-F-NF06-BT-W3	22,51	QRC-IB-10-M-NF06-B-W3	6,81
		1.38	.75	2.56	1.57		.95	.94	.94		49.63		15.01
Female Thread according to SAE J 1926-1													
	UNF 3/4" -16	35	19	65	40	14,3	24,7	24	24	QRC-IB-10-F-U08-BT-W3	22,30	QRC-IB-10-M-U08-B-W3	6,67
		1.38	7.48	2.56	1.57	.56	.97	.94	.94		49.16		14.70

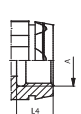
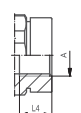
Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction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



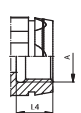


SW: Width across flats. All dimensions in mm (inch). Drawing similar Series IB-12.
* Insertion Male Tip.

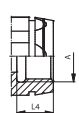
Series IB-12 ▪ BG 3 ▪ Nominal Size 12,5

	Port A	Dimensions (^{mm} / _{in})								Female Body	Weight (^{kg} / _{lbs}) ca.	Male Tip	Weight (^{kg} / _{lbs}) ca.
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2	Ordering Codes	per 100	Ordering Codes	per 100
		Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B 1.20.3											
	G 1/2"	44,5	23,55	74	46,5	15	27,2	28,5	28,5	QRC-IB-12-F-G08-BT-W3	38,86	QRC-IB-12-M-G08-B-W3	12,36
		1.75	.93	2.91	1.83	.59	1.07	1.12	1.12		85.67		27.25
	NPTF 1/2" -14	44,5	23,55	74	46,5		27,2	28,5	28,5	QRC-IB-12-F-NF08-BT-W3	38,56	QRC-IB-12-M-NF08-B-W3	12,07
		1.75	.93	2.91	1.83		1.07	1.12	1.12		85.01		26.61
Female Thread according to SAE J 1926-1													
	UNF 7/8" -14	44,5	23,55	74	46,5	16,7	27,2	28,5	28,5	QRC-IB-12-F-U10-BT-W3	36,40	QRC-IB-12-M-U10-B-W3	12,3
		1.75	.93	2.91	1.83	.66	1.07	1.12	1.12		80.25		27.12

Series IB-19 ▪ BG 4 ▪ Nominal Size 19

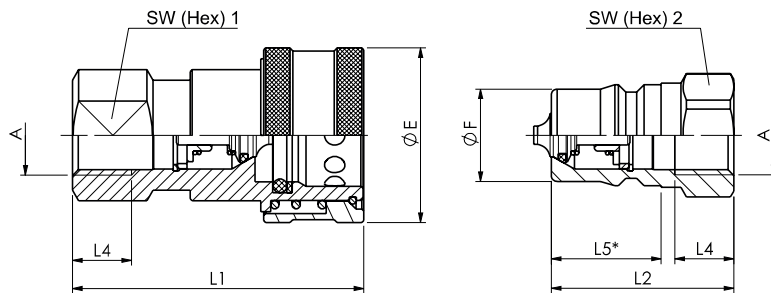
	Port A	Dimensions								Female Body	Weight	Male Tip	Weight
		(mm/in)									(^{kg} /lbs) ca.		(^{kg} /lbs) ca.
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2	Ordering Codes	per 100	Ordering Codes	per 100
Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B.1.20.3													
	G 3/4"	54	31,5	92	56	16	34	36	36	QRC-IB-19-F-G12-BT-W3	66,56	QRC-IB-19-M-G12-B-W3	22,3
		2.13	1.24	3.62	2.20	.63	1.34	1.42	1.42		146.74		49.16
	NPTF 3/4" -14	54	31,5	92	56		34	36	36	QRC-IB-19-F-NF12-BT-W3	65,88	QRC-IB-19-M-NF12-B-W3	21,66
		2.13	1.24	3.62	2.20		1.34	1.42	1.42		145.24		47.75

Series IB-25 ▪ BG 6 ▪ Nominal Size 25

	Port A	Dimensions (^{mm} / _{in})								Female Body Ordering Codes	Weight (^{kg} / _{lbs}) ca. per 100	Male Tip Ordering Codes	Weight (^{kg} / _{lbs}) ca. per 100
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2				
Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B.1.20.3													
	G 1"	63,5	37,8	103	63	21	39,3	41	41	QRC-IB-25-F-G16-BT-W3	101,57	QRC-IB-25-M-G16-B-W3	33,77
		2,50	1,49	4,06	2.48	.83	1.55	1.61	1.61		223.92		74.45
	NPTF 1" -11 1/2	63,5	37,8	103	63		39,3	41	41	QRC-IB-25-F-NF16-BT-W3	102,5	QRC-IB-25-M-NF16-B-W3	34,71
		2,50	1,49	4,06	2.48		1.55	1.61	1.61		225.97		76.52

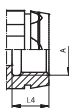
Note: The connection of the two halves of a coupling is achieved depending on the type. It is important to observe the positive engagement of plug-type couplings and the secure tightening of screw-type couplings to the limit stop of the thread. Forced or improper separation will result in malfunction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





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

Series IB-38 ▪ BG 8 ▪ Nominal Size 38

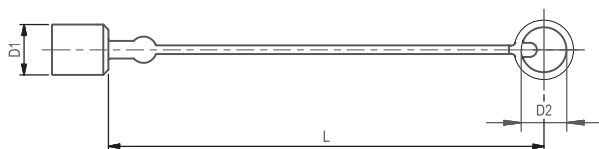
	Port A	Dimensions (^{mm} / _{in})								Female Body	Weight (^{kg} / _{lbs}) ca. per 100	Male Tip	Weight (^{kg} / _{lbs}) ca. per 100
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2	Ordering Codes		Ordering Codes	
	Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B.1.20.3												
	G 1 1/4"	73,5	44,5	124	122	23,8	52	65	65	QRC-IB-38-F-G20-BT-W3	191,58	QRC-IB-38-M-G20-B-W3	127,51
		2.89	1.75	4.88	4.80	.94	2.05	2.56	2.56		422.36		281.11
	NPTF 1 1/4" -11 1/2	73,5	44,5	124	122		52	65	65	QRC-IB-38-F-NF20-BT-W3	193,51	QRC-IB-38-M-NF20-B-W3	129,41
		2.89	1.75	4.88	4.80		2.05	2.56	2.56		426.62		285.30

Series IB-51 ▪ BG 9 ▪ Nominal Size 51

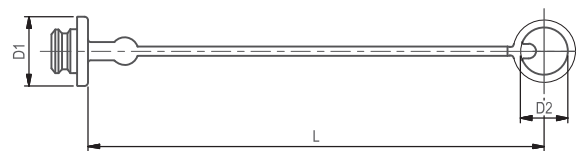
	Port A	Dimensions (^{mm} /in)								Female Body Ordering Codes	Weight (^{kg} /lbs) ca. per 100	Male Tip Ordering Codes	Weight (^{kg} /lbs) ca. per 100
		ØE	ØF	L1	L2	L4 min	L5	SW1	SW2				
		Female Thread according to DIN 3852 - ISO 1179-1 - ANSI B.1.20.3											
	G 2"	103	63,2	141,5	139,2	30,5	63	95	95	QRC-IB-51-F-G32-BT-W3	521,99	QRC-IB-51-M-G32-B-W3	361,76
		4.06	2.49	5.57	5.48	1.20	2.48	3.74	3.74		1150.79		797.54
	NPTF 2" -11 1/2	103	63,2	141,5	139,2		63	95	95	QRC-IB-51-F-NF32-BT-W3	531,99	QRC-IB-51-M-NF32-B-W3	371,75
		4.06	2.49	5.57	5.48		2.48	3.74	3.74		1172.84		819.57



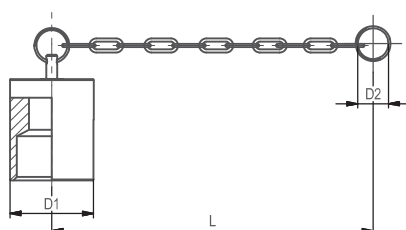
Series IB • Dust Protection



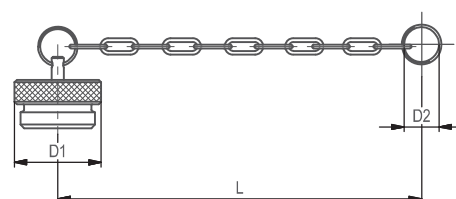
Dimensions (mm/in)			Material	Dust Cap for Male Tip
D1	D2	L		Ordering Codes
18	23	240	Plastic (Colour: Red)	QRC-IB-06-DM-23-KI-RD
.71	.91	9.45		
23	24	240	Plastic (Colour: Red)	QRC-IB-10-DM-24-KI-RD
.91	.94	9.45		
29	28	245	Plastic (Colour: Red)	QRC-IB-12-DM-28-KI-RD
1.14	1.10	9.65		
36.0	38	245	Plastic (Colour: Red)	QRC-IB-19-DM-38-KI-RD
1.42	1.50	9.65		
44	46	253	Plastic (Colour: Red)	QRC-IB-25-DM-46-KI-RD
1.73	1.81	9.96		



Dimensions (mm/in)			Material	Dust Plug for Female Body
D1	D2	L		Ordering Codes
26	23	240	Plastic (Colour: Red)	QRC-IB-06-DF-23-KI-RD
1.02	.91	9.45		
33	24	235	Plastic (Colour: Red)	QRC-IB-10-DF-24-KI-RD
1.30	.94	9.25		
38	28	240	Plastic (Colour: Red)	QRC-IB-12-DF-28-KI-RD
1.50	1.10	9.45		
49	38	240	Plastic (Colour: Red)	QRC-IB-19-DF-38-KI-RD
1.93	1.50	9.45		
60	46	245	Plastic (Colour: Red)	QRC-IB-25-DF-46-KI-RD
2.36	1.81	9.65		



Dimensions (mm/in)			Material	Dust Cap for Male Tip
D1	D2	L		Ordering Codes
22	22	245	Aluminium with chain	QRC-IB-06-DM-28/CN-W89-SI
.87	.87	9.65		
27	30	155	Aluminium with chain	QRC-IB-10-DM-30/CN-W89-SI
1.06	1.18	6.10		
35	41	265	Aluminium with chain	QRC-IB-12-DM-41/CN-W89-SI
1.38	1.61	10.43		
42	30	250	Aluminium with chain	QRC-IB-19-DM-30/CN-W89-SI
1.65	1.18	9.84		
48	49	340	Aluminium with chain	QRC-IB-25-DM-49/CN-W89-SI
1.89	1.93	13.39		
55	46	225	Aluminium with chain	QRC-IB-38-DM-46/CN-W89-SI
2.17	1.81	8.86		
80	75	350	Aluminium with chain	QRC-IB-51-DM-75/CN-W89-SI
3.15	2.95	13.78		



Dimensions (mm/in)			Material	Dust Plug for Female Body
D1	D2	L		Ordering Codes
22	22	210	Aluminium with chain	QRC-IB-06-DF-30/CN-W89-SI
.87	.87	8.27		
22	30	155	Aluminium with chain	QRC-IB-10-DF-30/CN-W89-SI
.87	1.18	6.10		
28	41	305	Aluminium with chain	QRC-IB-12-DF-41/CN-W89-SI
1.10	1.61	12.01		
35	43	265	Aluminium with chain	QRC-IB-19-DF-43/CN-W89-SI
1.38	1.69	10.43		
44	41	240	Aluminium with chain	QRC-IB-25-DF-41/CN-W89-SI
1.73	1.61	9.45		
74	46	225	Aluminium with chain	QRC-IB-38-DF-46/CN-W89-SI
2.91	1.81	8.86		
105	75	350	Aluminium with chain	QRC-IB-51-DF-75/CN-W89-SI
4.13	2.95	13.78		

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.

