

**Series FC • Carbon Steel**
**Product Description**

Flat Face Push-to-Connect Couplings of the FC Series from STAUFF consist of a male tip which is designed according to ISO 16028 and are compatible with couplings of this type.

In combination with Female Bodies of the STAUFF FF Series, Male Tips of the FC Series 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 for coupling Under pressure and is available in the following nominal sizes 10, 12, 16, 19, 25 (3/8" - 1").

A maximum operating pressure of 350 bar (5076 PSI) can also be achieved in combination with Female Bodies of the STAUFF FF Series (size 10, 12, 16, 19).

The proven design is suitable for use in agricultural and forestry machinery, construction machinery and hydraulic attachments.

**FC**
**Features**

- Flat Face
- Coupling made from carbon steel with Zinc/Nickel surface coating
- Connection Under pressure allowed with STAUFF Female Bodies of the QRC-FF Series with Male Tips of the QRC-FC Series
- ISO Interchange acc. to ISO 16028
- Maximum working pressure of 350 bar (5076 PSI) in combination with Female Bodies of the STAUFF FF Series (sizes 10, 12, 16, 19)
- Can be connected by hand while having a residual pressure up to 250 bar (3626 PSI) on the male side in combination with Female Bodies of the QRC-FF Series
- Powerful flow characteristics with minimal pressure drop
- Heavy internal components

**Applications**

	<b>Agricultural and Forestry Machinery</b>		<b>Construction Machinery</b>		<b>Industrial Hydraulic</b>
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**Top Features**

	<b>Zinc/Nickel coating</b>		<b>Designed for secure connection</b>		<b>Connect Under pressure</b>
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### Series FC - 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	Push
Disconnection	-
Connect Under Pressure	up to 250 bar (3626 PSI) allowed (Only Residual Pressure)
Disconnect Under Pressure	-
Application	Agricultural and Forestry Machinery, Construction Machinery, Industrial Hydraulic
ISO Interchange	-



FC

### Technical Data

Series	BG	DN Zoll Inch	DN metric ISO 4397	Q <sub>max</sub>		Working Pressure Connected		Male Tip		Spillage	
				l/min	US GPM	bar	PSI	bar	PSI	ml	fl oz
FC-10	2	3/8"	10	46	12.15	350	5076	350	5076	0,013	.0004
FC-12	3	1/2"	12,5	90	23.77	350	5076	350	5076	0,013	.0004
FC-16	4A	5/8"	16	148	39.09	350	5076	350	5076	0,03	.001
FC-19	4	3/4"	19	200	52.83	350	5076	350	5076	0,05	.002
FC-25	5	1"	25	378	99.86	350	5076	350	5076	0,03	.001

Series	Bursting Pressure Connected		Male Tip		Maximum pressure for connecting	
	bar	PSI	bar	PSI	bar	PSI
FC-10	1300	18854	1800	26107	250	3626
FC-12	1400	20305	1500	21756	250	3626
FC-16	1400	20305	1400	20305	250	3626
FC-19	1400	20305	1400	20305	250	3626
FC-25	1150	16679	1400	20305	250	3626

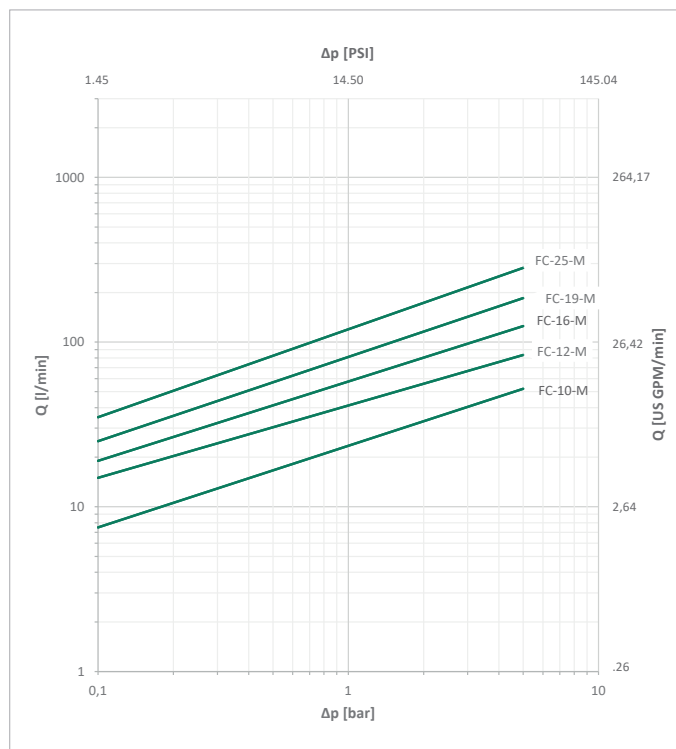
Note:

Working pressure only in connection with STAUFF Female Bodies of the QRC-FF Series with Male Tips of the QRC-FC Series.

Bursting pressure connected only in connection with STAUFF Female Bodies of the QRC-FF Series with Male Tips of the QRC-FC Series.

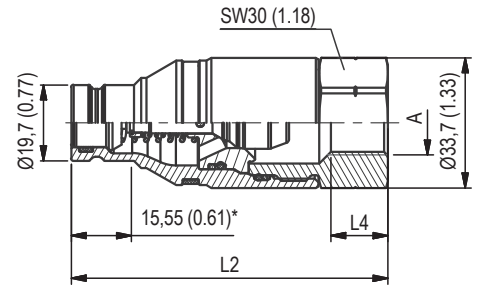
The indicated pressure ratings only apply to the coupling itself and depend on the connection type.

### 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<sup>2</sup>/s (28,8 - 35,2 cSt) and are only valid for components with non-reducing connections.

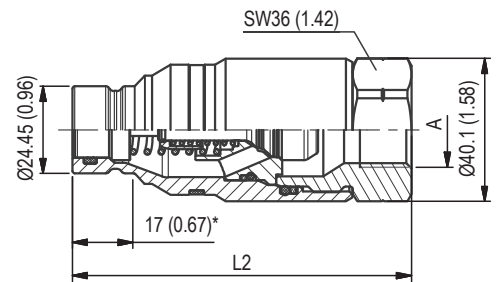




\* Insertion Male Tip  
All dimensions in mm (inch).

**Series FC-10 ▪ BG 2 ▪ Nominal Size 10**

Port A	Dimensions (mm/in)					Female Body	Weight ( <sup>kg</sup> /lbs) ca. per 100	Male Tip Ordering Codes	Weight ( <sup>kg</sup> /lbs) ca. per 100
	ØD2	L1	L2	L3	L4				
Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 3/8"	69	82		13	Connection with STAUFF Female Bodies of the QRC-FF Series with Male Tips of the QRC-FC Series.		QRC-FC-10-M-G06-S5-W3	31,2
		2.72	3.23		.51				68.8
	G 1/2"	69	82		15			QRC-FC-10-M-G08-S5-W3	29,7
		2.72	3.23		.59				65.5
	NPTF 3/8" -18	70	82					QRC-FC-10-M-NF06-S5-W3	31
		7.76	3.23						68.4
	NPTF 1/2" -14	69	82					QRC-FC-10-M-NF08-S5-W3	29,7
	2.72	3.23					65.5		
UNF 9/16" -18	69	82		13		QRC-FC-10-M-U06-S5-W3	31,4		
	2.72	3.23		.51			69.2		
UNF 3/4" -16	69	82		14.5		QRC-FC-10-M-U08-S5-W3	30		
	2.72	3.23		.57			66.1		



\* Insertion Male Tip  
All dimensions in mm (inch).

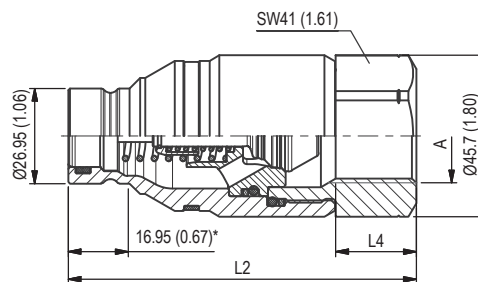
**Series FC-12 ▪ BG 3 ▪ Nominal Size 12,5**

Port A	Dimensions (mm/in)					Female Body	Weight ( <sup>kg</sup> /lbs) ca. per 100	Male Tip Ordering Codes	Weight ( <sup>kg</sup> /lbs) ca. per 100
	ØD2	L1	L2	L3	L4				
Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 1/2"	84	95		14,5	Connection with STAUFF Female Bodies of the QRC-FF Series with Male Tips of the QRC-FC Series.		QRC-FC-12-M-G08-S5-W3	51,9
		3.31	3.74		.57				114.4
	G 3/4"	84	96		16,5			QRC-FC-12-M-G12-S5-W3	49,5
		3.31	3.77		.64				109.1
	NPTF 1/2" -14	84	95					QRC-FC-12-M-NF08-S5-W3	52,3
		3.31	3.74						115.3
	NPTF 3/4" -14	84	95					QRC-FC-12-M-NF12-S5-W3	49,7
		3.31	3.74						109.6
UNF 3/4" -16	84	95		16		QRC-FC-12-M-U08-S5-W3	52,3		
	3.31	3.74		.63			115.3		
UNF 7/8" -14	84	95		17		QRC-FC-12-M-U10-S5-W3	51		
	3.31	3.74		.75			112.4		
UN 1" 1/16 -12	84	97		18		QRC-FC-12-M-U12-S5-W3	49,3		
	3.31	3.82		.75			108.7		

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.



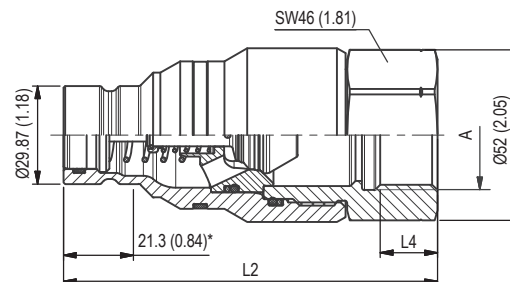
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\* Insertion Male Tip  
All dimensions in mm (inch).

**Series FC-16 ▪ BG 4A ▪ Nominal Size 16**

Port A	Dimensions (mm/in)					Female Body	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	ØD2	L1	L2	L3	L4				
Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 3/4"		98,5		22	Connection with STAUFF Female Bodys of the QRC-FF Series with Male Tips of the QRC-FC Series.		QRC-FC-16-M-G12-S5-W3	70
			3.88		.87				154.3
	NPTF 3/4" -14		101,5					QRC-FC-16-M-NF12-S5-W3	68
		3.98						149.9	
UN 1" 1/16 -12		101,5		19			QRC-FC-16-M-U12-S5-W3	69,6	
		3.98		.75				153.4	



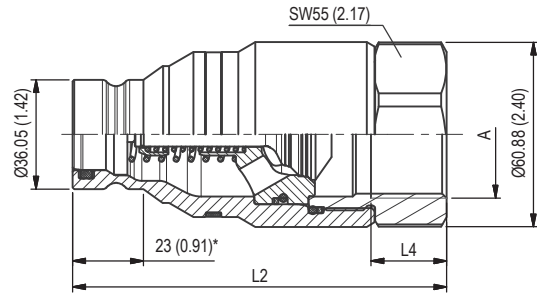
\* Insertion Male Tip  
All dimensions in mm (inch).

**Series FC-19 ▪ BG 4 ▪ Nominal Size 19**

Port A	Dimensions (mm/in)					Female Body	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	ØD2	L1	L2	L3	L4				
Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 3/4"		114		16,5	Connection with STAUFF Female Bodys of the QRC-FF Series with Male Tips of the QRC-FC Series.		QRC-FC-19-M-G12-S5-W3	102,8
			4.49		.24				226.6
	G 1"		114		17,5			QRC-FC-19-M-G16-S5-W3	95,5
			4.49		.69				210.5
	NPTF 3/4" -14		114					QRC-FC-19-M-NF12-S5-W3	101
			4.49						222.7
	NPTF 1" -11 1/2		114					QRC-FC-19-M-NF16-S5-W3	96,3
			4.49						212.3
	UN 1" 1/16-12		114		19			QRC-FC-19-M-U12-S5-W3	103,7
			4.49		.75				228.6
UN 1" 5/16-12		114		19		QRC-FC-19-M-U16-S5-W3	96,4		
		4.49		.75			212.5		

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  
All dimensions in mm (inch).

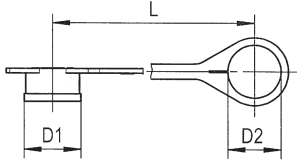
**Series FC-25 ▪ BG 5 ▪ Nominal Size 25**

Port A	Dimensions (mm/in)					Female Body	Weight (kg/lbs) ca. per 100	Male Tip Ordering Codes	Weight (kg/lbs) ca. per 100
	ØD2	L1	L2	L3	L4				
Female Thread according to DIN 3852-2 - ANSI B 1.20.3 - SAE J1926-1 - ISO 11926-1									
	G 1" 1/4		123,5		25	Connection with STAUFF Female Bodies of the QRC-FF Series with Male Tips of the QRC-FC Series.		QRC-FC-25-M-G20-S5-W3	134,9
			4,86		.98				297,4
	NPTF 1" 1/4-11 1/2		126,4					QRC-FC-25-M-NF20-S5-W3	137,1
		4,98						302,3	
	UN 1" 5/8-12		126,4		20		QRC-FC-25-M-U20-S5-W3	137	
			4,98		.79			302	

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 FC • Dust Protection



FC

Dimensions ( <sup>mm</sup> / <sub>in</sub> )			Material	Dust Cap for Male Tip
D1	D2	L		Ordering Codes
28	24	170	Plastic (Colour: Red)	QRC-FF-06-DM-22-K-RD
1.10	.94	6.69		
32	27	115	Plastic (Colour: Red)	QRC-FF-10-DM-27-K-RD
1.26	1.06	4.53		
38	35,5	135	Plastic (Colour: Red)	QRC-FF-12-DM-36-K-RD
1.50	1.40	5.31		
42	30	220	Plastic (Colour: Red)	QRC-FF-16-DM-30-K-RD
1.65	1.18	8.66		
48	45,5	150	Plastic (Colour: Red)	QRC-FF-19-DM-46-K-RD
1.89	1.79	5.91		
46	51	290	Plastic (Colour: Red)	QRC-FF-25-DM-51-K-RD
1.81	2.01	11.42		

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.

