TECHNICAL FEATURES AND OPTIONS

Working Temperature
-20 °C / +100 °C

Interchange
ISO 16028

Operating Pressure
Up to 380 Bar

Available Threads
BSP - NPT

Available Sizes
From 3/8" to 1" 1/4

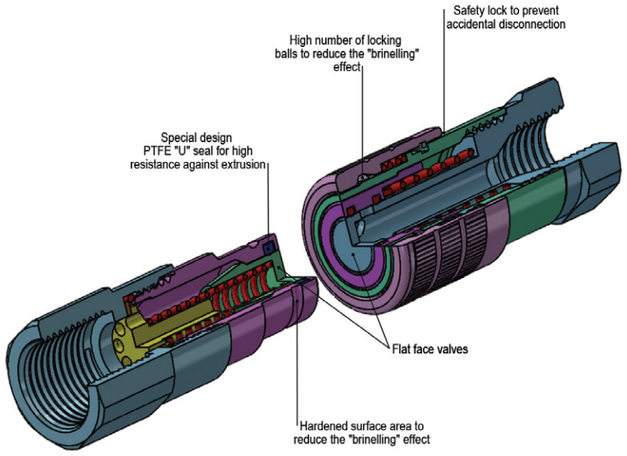
Sealing Description
Nitrile NBR

Locking Mechanism
Locking Ball System
+Safety Lock

Flow Rate
Up to 308 l / min

Material
High Strenght
Carbon Steel

BENEFITS



- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection, enhancing correct function of the circuit.
- Linear flow reduces internal turbulence and pressure drop maintaining circuit efficently.
- Good resistance to pressure impulses when the couplings are connected.
- Compact slim design.
- Safe and simple to use.

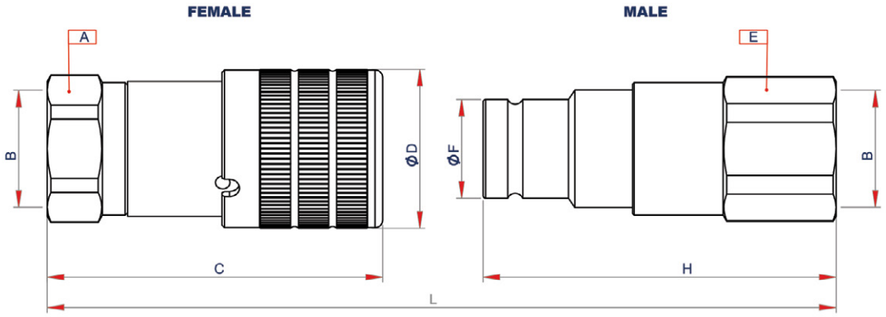
HOW TO USE

MAIN APPLICATIONS

Agriculture · Hydraulic Industry · Oil&Gas · Vehicles · Chemical Industry · Concrete Vehicles · Earth Moving · Hydraulic Equipment

- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.

FEMALE **MALE**



SIZE	Product Code	Product Name	ISO DN	Hex mm	Hex inch		Port B	Diameter mm	Diameter inch		Lenght	Lenght mm	Lenght inch	Weight kg	Weight lbs
3/8"	QCF-102	Caupled	12.5				3/8"				L	121	4.76	0.39	0.86
	QCF-102-A	Female		A	27	1.06		D	32	1.26	C	67	2.64	0.23	0.51
	QCF-102-B	Male		E	27	1.06		F	19.70	0.78	H	69	2.71	0.16	0,35
1/2"	QCF-103	Caupled	12.5				1/2"				L	121	4.76	0.39	0.86
	QCF-103-A	Female		A	27	1.06		D	32	1.26	C	67	2.64	0.23	0.51
	QCF-103-B	Male		E	27	1.06		F	19.70	0.78	H	69	2.71	0.16	0,35
3/4"	QCF-104	Caupled	19				3/4"				L	140	5.51	0.82	1,81
	QCF-104-A	Female		A	36	1.42		D	40	1.57	C	84	3.31	0.52	1,15
	QCF-104-B	Male		E	36	1.42		F	24.5	0.96	H	74	2.91	0.30	0,66
1"1/16	QCF-U-104	Caupled	19				1"1/16				L	140	5.51	0.82	1,81
	QCF-U-104-A	Female		A	36	1.42		D	40	1.57	C	84	3.31	0.52	1,15
	QCF-U-104-B	Male		E	36	1.42		F	24.5	1.0	H	74	2.91	0.30	0,66
1"	QCF-105	Caupled	25				1"				L	162	6.38	1.20	2,64
	QCF-105-A	Female		A	41	1.61		D	48	1.89	C	98	3.86	0.78	1,72
	QCF-105-B	Male		E	41	1.61		F	29.9	1.18	H	85	3.35	0.42	0,92
1"1/4	QCF-106	Caupled	25				1"1/4				L	176	6.93	1.78	3,92
	QCF-106-A	Female		A	50	1.97		D	55	2.17	C	110	4.33	1.14	2,51
	QCF-106-B	Male		E	50	1.97		F	36.0	1.42	H	90	3.54	0.64	1,41

SIZE	Max.Fullow Suggested l / min	Max.Fullow Suggested GPM	Connect Force N	Connect Force lbf	Disconnect Force N	Disconnect Force lbf	Spillage ml
3/8"	34	8.98	190	42.75	50	11.25	0.02
1/2"	34	8.98	190	42.75	50	11.25	0.02
3/4"	110	29.06	220	49.50	70	15.75	0.03
1" 1/16	110	29.06	220	49.50	70	15.75	0.03
1"	181	47.82	250	56.25	75	16.88	0.03
1" 1/4	308	116.57	350	78.75	90	20.25	0.17

Fluid:OIL ISO VG46
Temperature:40 C
Viscosity:41.4-50.6 mm2/s
• Spillage is an indicative value of the fluid loss during disconnection
Test Pressure:5.0 Bar
Temperature Range:
• Standart seals NBR (Nitrile):From -20 C to +100 C (-4 F to +212 F)
VITONR • seals:From -15 C to +180 C (+5 F to +356 F)
Tests:
The couplings have been tested at max. opereting pressure for 100.000 impulses according to ISO 18869:2017

SIZE	Max.Operating Pressure Caupled MPa	Caupled psi	Female MPa	Female psi	Male MPa	Male psi	Burst Pressure Caupled MPa	Caupled psi	Female MPa	Female psi	Male MPa	Male psi
3/8"	37	5366	37	5366	37	5366	100	14500	100	14500	100	14500
1/2"	37	5366	37	5366	37	5366	100	14500	100	14500	100	14500
3/4"	35	5076	35	5076	35	5076	100	14500	100	14500	100	14500
1" 1/16	35	5076	35	5076	35	5076	100	14500	100	14500	100	14500
1"	33	4786	33	4786	33	4786	80	11600	80	11600	80	11600
1" 1/4	38	5511	38	5511	38	5511	80	11600	80	11600	80	11600

WARNING

- Never connect or disconnect with dynamic pressure (e.g. pump on).
- Do not use the female coupling disconnected with high impulse pressure.
- Do not couple - uncouple with flow and/or pressure in the circuit.
- Do not couple - uncouple when the tempature inside of the circuit is higher than 80 °C / 176 °F
- Check the maximum allowable working pressure of the port in use.
- Make sure that the medium used is compitable with seal and material as indicated for each series.

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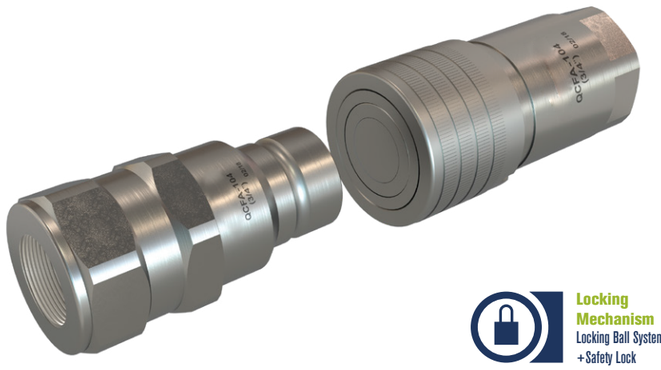


Working Temperature
-20 °C / +100 °C

Interchange
ISO 16028

Operating Pressure
Up to 450 Bar

Available Threads
BSP - NPT

Available Sizes
From 3/8" to 1"

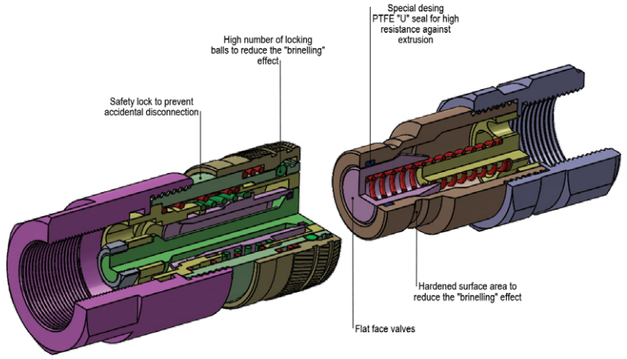
Sealing Description
Nitrile NBR

Locking Mechanism
Locking Ball System
+Safety Lock

Flow Rate
Up to 205 l / min

Material
High Strenght
Carbon Steel

BENEFITS



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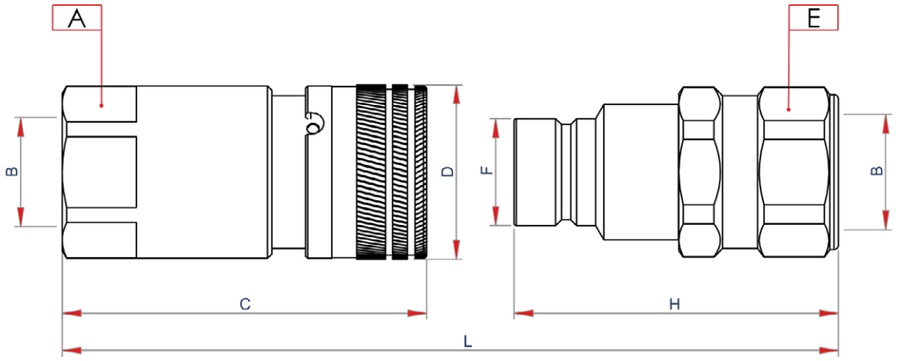

SIZE	Product Code	Product Name	ISO DN	Hex mm	Hex inch		Port B	Diameter mm	Diameter inch		Lenght mm	Lenght inch		Weight kg	Weight lbs
3/8"	QCFA-102	Caupled	10				3/8"				L	121	4.76	0.43	0.95
	QCFA-102-A	Female		A	27	1.06		D	32	1.26	C	67	2.64	0.25	0.55
	QCFA-102-B	Male		E	27	1.06		F	19.70	0.78	H	69	2.71	0.18	0.40
1/2"	QCFA-103	Caupled	12.5				1/2"				L	140	5.51	0.87	1.92
	QCFA-103-A	Female		A	36	1.42		D	40	1.57	C	84	3.31	0.55	1.21
	QCFA-103-B	Male		E	36	1.42		F	24.50	0.96	H	74	2.91	0.32	0.71
3/4"	QCFA-104	Caupled	19				3/4"				L	162	6.38	1.31	2.89
	QCFA-104-A	Female		A	41	1.61		D	48	1.89	C	98	3.86	0.83	1.83
	QCFA-104-B	Male		E	41	1.61		F	29.90	1.18	H	85	3.35	0.48	1.06
1" 1/16	QCFA-U-204	Caupled	19				1" 1/16				L	162	6.38	1.31	2.89
	QCFA-U-204-A	Female		A	41	1.61		D	48	1.89	C	98	3.86	0.83	1.83
	QCFA-U-204-B	Male		E	41	1.61		F	29.90	1.18	H	85	3.35	0.48	1.06
1"	QCFA-105	Caupled	25				1"				L	176	6.93	2.11	4.66
	QCFA-105-A	Female		A	50	1.97		D	55	2.17	C	110	4.33	1.26	2.78
	QCFA-105-B	Male		E	50	1.97		F	36.0	1.42	H	90	3.54	0.85	1.88

SIZE	Max.Fullow Suggested l/min	Max.Fullow Suggested GPM	Connect Force N	Connect Force lbf	Disconnect Force N	Disconnect Force lbf	Spillage ml
3/8"	32	8.45	170	38.21	40	9.00	0.01
1/2"	102	26.95	190	42.75	50	11.25	0.02
3/4"	147	38.84	220	49.50	70	15.75	0.03
1" 1/16	147	38.84	220	49.50	70	15.75	0.03
1"	205	54.16	250	56.25	75	16.88	0.03

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SIZE	Max.Operating Pressure Caupled MPa	Caupled psi	Female MPa	Female psi	Male MPa	Male psi	Burst Pressure Caupled MPa	Caupled psi	Female MPa	Female psi	Male MPa	Male psi
3/8"	45	6527	45	6527	45	6527	100	14500	100	14500	100	14500
1/2"	45	6527	45	6527	45	6527	100	14500	100	14500	100	14500
3/4"	40	5802	40	5802	40	5802	100	14500	100	14500	100	14500
1" 1/16	40	5802	40	5802	40	5802	100	14500	100	14500	100	14500
1"	38	5512	38	5512	38	5512	80	11600	80	11600	80	11600

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