



Series: FIRG-Q

Corrosion Resistant

Technical Features and Options

- Interchangeability: ISO 16028 (from size 6.3 to 25) HTMA (size 10)
- Valve system: Flat face
- Mechanical connection: Locking balls
- Connection system: Push to connect
- Disconnection system: Pulling back the sleeve of female
- Connection with residual pressure: Not allowed
- Disconnection with residual pressure: Not allowed
- Threads available: BSP, NPT
- Threads on request: SAE (J1926-1)
- Temperature range:
 - NBR (Nitrile) seals: from -20°C to +100°C (from -4°F to +212°F).
 - VITON seals: from -15°C to +180°C (from +5°F to +356°F).
 - EPDM (Ethylene Propylene) seals: from -40°C to +150°C (from -40°F to +302°F).
 - KALREZ seals: from -25°C to +300°C (from -13°F to +572°F).

How To Use

- Before connection, clean the flat face surface of quick coupling to avoid the inclusion of dirt into the circuit.
- To connect push the male half towards the female half or vice versa.
- Once connected, to prevent accidental disconnection, turn the external sleeve to engage lock function.
- To uncouple turn the external sleeve until the sleeve lock groove corresponds with the safety lock ball and pull back the sleeve.

Warning!

- Do not use the female coupling disconnected with impulse pressure.
 - Do not couple-uncouple with flow and/or pressure in the circuit.
 - Do not couple-uncouple when the temperature inside of the circuit is higher than 80°C (176°F).
 - When the couplings are disconnected, we recommend the use of protection caps.
- The plastic caps for "FIRG-A" series are suitable with "FIRG-Q" couplings.

Materials

Construction material: High resistance carbon steel with special treatment nitriding + oxidation (QPQ)

Internal valves: AISI 303

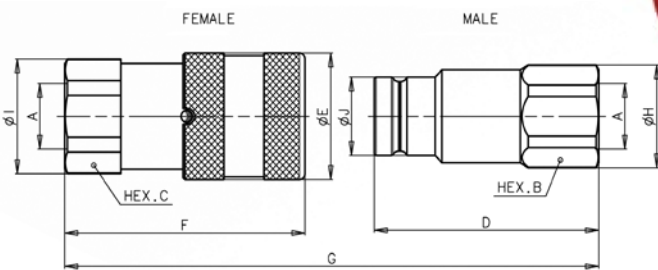
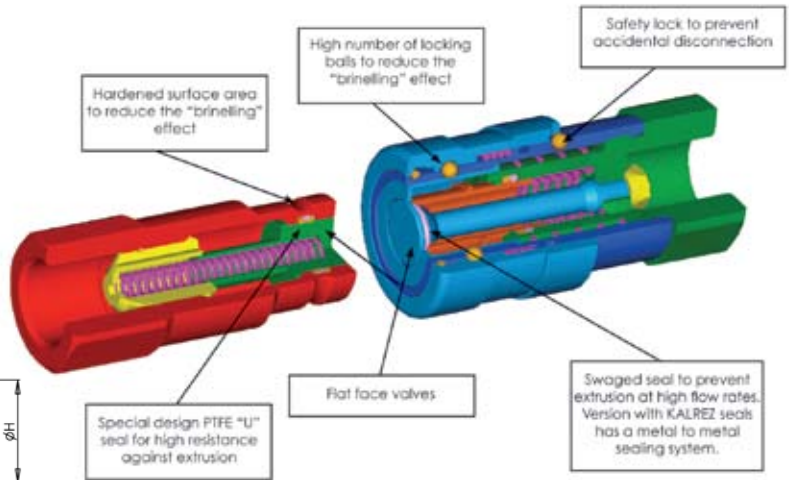
Spring: AISI 302

Locking Ball material: AISI 420

Seals: NBR (Nitrile), VITON, EPDM and KALREZ

Seals on request: HNBR or others

Anti-extrusion rings: PTFE



Dimensions

Description	A	unit	B	C	D	E	F	G	H	I	J	Weight	Male	Female
FIRG14Q BSP	1/4	mm	22	22	47.9	28	48.1	85.2	23.8	24	16.1	Kg	0.086	0.140
FIRG38Q BSP	3/8	mm	24	27	60	32	64.2	108.7	26	29	19.7	Kg	0.122	0.233
FIRG12Q BSP	1/2	mm	27	27	62.5	32	69.2	116.2	29	29	19.7	Kg	0.120	0.230
FIRG12AQ BSP	1/2	mm	32	32	68	38	73.8	124.5	33.8	33.8	24.5	Kg	0.230	0.370
FIRG34Q BSP	3/4	mm	36	36	70.5	38	80.8	134	38.5	38.5	24.5	Kg	0.230	0.370
FIRG34BQ BSP	3/4	mm	36	36	70.5	42	78.5	131.4	38.5	38.5	27	Kg	0.268	0.471
FIRG100Q BSP	1	mm	45	45	82.3	48	93.2	153.5	47.8	47.8	30	Kg	0.395	0.765
FIRG114Q BSP	1-1/4	mm	55	55	89.8	55	106	172.8	59.8	59.8	36	Kg	0.643	1.200
FIRG112Q BSP	1-1/2	mm	70	65	111	80	132.4	214.8	76	72	57	Kg	1.862	2.823
FIRG200Q BSP	2	mm	75	80	123.8	100	156.6	241.5	83.5	88.5	73	Kg	2.259	5.100

Series: **FIRG-Q**



QUICK CONNECT COUPLINGS

Performance

	Size		ISO Size		Max. flow suggested		Connect force		Disconnect force		Spillage*
	Inch	mm	l/min	GPM	N	lbf	N	lbf	ml		
FIRG14Q	1/4	6.3	24	6.36	130	29.25	45	10.13	0.006		
FIRG38Q-12Q	3/8	10.0	46	12.19	160	36.00	35	7.88	0.012		
FIRG12A-34Q	1/2	12.5	90	23.85	240	54.00	65	14.63	0.020		
FIRG34BQ	5/8	16.0	148	39.22	190	42.75	60	13.50	0.026		
FIRG100Q	3/4	19.0	200	53.00	220	49.50	70	15.75	0.032		
FIRG114Q	1	25.0	378	100.17	310	69.75	100	22.50	0.035		
FIRG112Q	1-1/2	-	750	198.75	400	90.00	100	22.50	0.050		
FIRG200Q	2	-	1000	265.00	370	83.25	70	15.75	0.100		

* Spillage is an indicative value of the fluid loss per couple-uncouple cycle.



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NBR, VITON, EPDM Seals	Max. operating pressure						Burst pressure					
	Coupled		Male		Female		Coupled		Male		Female	
	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
FIRG14Q	30	4350	30	4350	12	1740	120	17400	120	17400	48	6960
FIRG38Q-12Q	30	4350	30	4350	15	2175	120	17400	120	17400	60	8700
FIRG12A-34Q	25	3625	25	3625	12	1740	100	14500	100	14500	48	6960
FIRG34BQ	25	3625	25	3625	12	1740	100	14500	100	14500	48	6960
FIRG100Q	25	3625	25	3625	10	1450	100	14500	90	13050	40	5800
FIRG114Q	25	3625	25	3625	10	1450	100	14500	90	13050	40	5800
FIRG112Q	20	2900	20	2900	8	1160	60	8700	60	8700	32	4640
FIRG200Q	20	2900	20	2900	8	1160	60	8700	60	8700	32	4640

KALREZ Seals for high temperature	Max. operating pressure						Burst pressure					
	Coupled		Male		Female		Coupled		Male		Female	
	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
FIRG14QK	5	725	5	725	5	725	120	17400	120	17400	40	5800
FIRG38-12QK	5	725	5	725	5	725	120	17400	120	17400	48	6960
FIRG12A-34QK	5	725	5	725	5	725	100	14500	100	14500	48	6960
FIRG34BQK	5	725	5	725	5	725	100	14500	100	14500	40	5800
FIRG100QK	5	725	5	725	5	725	100	14500	90	13050	60	8700
FIRG114QK	5	725	5	725	5	725	100	14500	90	13050	60	8700
FIRG112QK	5	725	5	725	5	725	40	5800	40	5800	32	4640
FIRG200QK	5	725	5	725	5	725	40	5800	40	5800	32	4640



Series: FIRG-Q



FIRG QN FLAT-FACE QUICK COUPLING QPQ + NITRIL SEALS

Article no.	Description	Price £	Price €
BSP THREAD			
800900000	F. FIRG14QN BSP	£37.70	€39.60
800900001	M. FIRG14QN BSP	£17.10	€18.00
800900002	F. FIRG38QN BSP	£38.50	€40.40
800900003	M. FIRG38QN BSP	£17.60	€18.50
800900004	F. FIRG12QN BSP	£39.60	€41.60
800900005	M. FIRG12QN BSP	£19.80	€20.80
800900006	F. FIRG12AQN BSP	£53.50	€56.20
800900007	M. FIRG12AQN BSP	£30.70	€32.20
800900008	F. FIRG34QN BSP	£90.30	€94.80
800900009	M. FIRG34QN BSP	£36.00	€37.80
800900010	F. FIRG34BQN BSP	£90.30	€94.80
800900011	M. FIRG34BQN BSP	£40.40	€42.40
800900012	F. FIRG100QN BSP	£113.80	€119.50
800900013	M. FIRG100QN BSP	£52.60	€55.20
800900014	F. FIRG114QN BSP	£196.90	€206.80
800900015	M. FIRG114QN BSP	£96.30	€101.20
800900016	F. FIRG112QN BSP	£525.10	€551.40
800900017	M. FIRG112QN BSP	£315.10	€330.80
800900022	F. FIRG200QN BSP	£1,602.20	€1,682.30
800900023	M. FIRG200QN BSP	£801.10	€841.10

Article no.	Description	Price £	Price €
NPT THREAD			
800901000	F. FIRG14QN NPT	£41.70	€43.80
800901001	M. FIRG14QN NPT	£19.00	€19.90
800901002	F. FIRG38QN NPT	£42.70	€44.80
800901003	M. FIRG38QN NPT	£19.50	€20.50
800901004	F. FIRG12QN NPT	£44.60	€46.80
800901005	M. FIRG12QN NPT	£22.30	€23.40
800901006	F. FIRG12AQN NPT	£59.20	€62.10
800901007	M. FIRG12AQN NPT	£33.90	€35.60
800901008	F. FIRG34QN NPT	£99.80	€104.80
800901009	M. FIRG34QN NPT	£39.80	€41.80
800901010	F. FIRG34BQN NPT	£99.80	€104.80
800901011	M. FIRG34BQN NPT	£44.60	€46.80
800901012	F. FIRG100QN NPT	£125.90	€132.10
800901013	M. FIRG100QN NPT	£58.10	€61.00
800901014	F. FIRG114QN NPT	£217.70	€228.60
800901015	M. FIRG114QN NPT	£106.50	€111.90
800901016	F. FIRG112QN NPT	£580.40	€609.40
800901017	M. FIRG112QN NPT	£348.30	€365.70
800901018	F. FIRG200QN NPT	£1,160.80	€1,218.80
800901019	M. FIRG200QN NPT	£885.40	€929.70

FIRG QV FLAT-FACE QUICK COUPLING QPQ + VITON SEALS

Article no.	Description	Price £	Price €
BSP THREAD			
800900100	F. FIRG14QV BSP	£41.80	€43.90
800900101	M. FIRG14QV BSP	£19.10	€20.00
800900102	F. FIRG38QV BSP	£42.80	€44.90
800900103	M. FIRG38QV BSP	£19.50	€20.50
800900104	F. FIRG12QV BSP	£44.60	€46.80
800900105	M. FIRG12QV BSP	£22.30	€23.40
800900106	F. FIRG12AQV BSP	£59.10	€62.00
800900107	M. FIRG12AQV BSP	£34.00	€35.70
800900108	F. FIRG34QV BSP	£99.80	€104.80
800900109	M. FIRG34QV BSP	£39.70	€41.70
800900110	F. FIRG34BQV BSP	£99.80	€104.80
800900111	M. FIRG34BQV BSP	£44.60	€46.80
800900112	F. FIRG100QV BSP	£125.90	€132.10
800900113	M. FIRG100QV BSP	£58.10	€61.00
800900114	F. FIRG114QV BSP	£217.80	€228.70
800900115	M. FIRG114QV BSP	£106.50	€111.90
800900116	F. FIRG112QV BSP	£580.40	€609.40
800900117	M. FIRG112QV BSP	£348.30	€365.70
800900120	F. FIRG200QV BSP	£1,728.70	€1,815.10
800900121	M. FIRG200QV BSP	£885.40	€929.70

Article no.	Description	Price £	Price €
NPT THREAD			
800901100	F. FIRG14QV NPT	£43.80	€45.90
800901101	M. FIRG14QV NPT	£20.00	€21.00
800901102	F. FIRG38QV NPT	£44.70	€47.00
800901103	M. FIRG38QV NPT	£20.40	€21.40
800901104	F. FIRG12QV NPT	£46.90	€49.20
800901105	M. FIRG12QV NPT	£23.60	€24.70
800901106	F. FIRG12AQV NPT	£62.00	€65.10
800901107	M. FIRG12AQV NPT	£35.60	€37.40
800901108	F. FIRG34QV NPT	£104.80	€110.00
800901109	M. FIRG34QV NPT	£41.50	€43.60
800901110	F. FIRG34BQV NPT	£104.80	€110.00
800901111	M. FIRG34BQV NPT	£46.90	€49.20
800901112	F. FIRG100QV NPT	£132.10	€138.70
800901113	M. FIRG100QV NPT	£60.90	€64.00
800901114	F. FIRG114QV NPT	£228.50	€240.00
800901115	M. FIRG114QV NPT	£111.60	€117.10
800901116	F. FIRG112QV NPT	£609.50	€639.90
800901117	M. FIRG112QV NPT	£340.80	€357.80
800901119	M. FIRG200QV NPT	£927.60	€974.00

Series: **FIRG-Q**



FIRG QE FLAT FACE QUICK COUPLING QPQ + EPDM SEALS

Article no.	Description	Price £	Price €
BSP THREAD			
800900200	F. FIRG14QE BSP	£41.80	€43.90
800900201	M. FIRG14QE BSP	£19.10	€20.00
800900202	F. FIRG38QE BSP	£42.70	€44.80
800900203	M. FIRG38QE BSP	£19.50	€20.50
800900204	F. FIRG12QE BSP	£44.60	€46.80
800900205	M. FIRG12QE BSP	£22.30	€23.40
800900206	F. FIRG12AQE BSP	£59.10	€62.00
800900207	M. FIRG12AQE BSP	£34.00	€35.70
800900208	F. FIRG34QE BSP	£99.80	€104.80
800900209	M. FIRG34QE BSP	£39.70	€41.70
800900210	F. FIRG34BQE BSP	£99.80	€104.80
800900211	M. FIRG34BQE BSP	£44.60	€46.80
800900212	F. FIRG100QE BSP	£125.90	€132.10
800900213	M. FIRG100QE BSP	£58.10	€61.00
800900214	F. FIRG114QE BSP	£217.80	€228.70
800900215	M. FIRG114QE BSP	£106.50	€111.90
800900216	F. FIRG112QE BSP	£580.40	€609.40
800900217	M. FIRG112QE BSP	£348.30	€365.70
800900218	F. FIRG200QE BSP	£1,728.70	€1,815.10
800900219	M. FIRG200QE BSP	£885.40	€929.70

Article no.	Description	Price £	Price €
NPT THREAD			
800901200	F. FIRG14QE NPT	£43.80	€45.90
800901201	M. FIRG14QE NPT	£20.00	€21.00
800901202	F. FIRG38QE NPT	£44.70	€47.00
800901203	M. FIRG38QE NPT	£20.40	€21.40
800901204	F. FIRG12QE NPT	£46.90	€49.20
800901205	M. FIRG12QE NPT	£23.60	€24.70
800901206	F. FIRG12AQE NPT	£62.00	€65.10
800901207	M. FIRG12AQE NPT	£35.60	€37.40
800901208	F. FIRG34QE NPT	£104.80	€110.00
800901209	M. FIRG34QE NPT	£41.50	€43.60
800901210	F. FIRG34BQE NPT	£104.80	€110.00
800901211	M. FIRG34BQE NPT	£46.90	€49.20
800901212	F. FIRG100QE NPT	£132.10	€138.70
800901213	M. FIRG100QE NPT	£60.90	€64.00
800901214	F. FIRG114QE NPT	£228.50	€240.00
800901215	M. FIRG114QE NPT	£111.60	€117.10
800901216	F. FIRG112QE NPT	£609.50	€639.90
800901217	M. FIRG112QE NPT	£365.70	€384.00

FIRG QK FLAT-FACE COUPLING QPQ + KALREZ SEALS

Article no.	Description	Price £	Price €
BSP THREAD			
800900704	F. FIRG14QK BSP	£404.80	€425.00
800900705	M. FIRG14QK BSP	£379.50	€398.50
800900708	F. FIRG38QK BSP	£404.80	€425.00
800900709	M. FIRG38QK BSP	£379.50	€398.50
800900710	F. FIRG12QK BSP	£233.00	€244.60
800900711	M. FIRG12QK BSP	£199.70	€209.70
800900700	F. FIRG12AQK BSP	£506.00	€531.30
800900701	M. FIRG12AQK BSP	£480.70	€504.70
800900712	F. FIRG34QK BSP	£506.00	€531.30
800900713	M. FIRG34QK BSP	£480.70	€504.70
800900716	F. FIRG34BQK BSP	£565.10	€593.40
800900717	M. FIRG34BQK BSP	£539.70	€566.70
800900702	F. FIRG100QK BSP	£632.50	€664.10
800900703	M. FIRG100QK BSP	£607.10	€637.50
800900706	F. FIRG114QK BSP	£842.80	€884.90
800900707	M. FIRG114QK BSP	£801.10	€841.20
800900718	F. FIRG112QK BSP	£1,098.20	€1,153.20
800900719	M. FIRG112QK BSP	£965.10	€1,013.40
800900722	F. FIRG200QK BSP	£2,329.60	€2,446.10
800900723	M. FIRG200QK BSP	£1,930.20	€2,026.80

QUICK CONNECT COUPLINGS



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