



## Flat Face: QPQ Plating

**Series:** FIRG Q

**Interchange:** ISO 16028

Q variation of the FIRG series is the integration of the QPQ plating technology combined with a coupler constructed of stainless internal parts and carbon steel external parts of the flat face quick couplings. In relatively corrosive, alkaline environments they are an excellent alternative to the more expensive stainless steel quick couplings and demonstrate a much higher operational pressure performance. The interchangeability of FIRG Q series couplings is in accordance with ISO 16028.

- Material: high resistance carbon steel treated with QPQ
- Valve parts in stainless steel
- Springs in AISI 302 SS
- Locking balls in AISI 420
- Seals: Nitrile, EPDM, Viton, etc.

### Overview

The FIRG Q flat face couplings series is the solution for mildly corrosive environments and/or for relatively corrosive fluid transfer (i.e. sweet water, water and glycol etc). The internal valve material is stainless steel AISI303 and can be supplied with a variety of seals for fluid compatibility and operating temperature requirements. The combined features of FIRG Q series are ideal for several applications, mainly in the industrial field.

### Applications

FIRG Q series are suitable for low or medium corrosive fluids. steel mills, tire manufacturing, state or municipal right-of-way spraying.

### Features & Options

- Couplings: internal stainless steel parts, external carbon with QPQ plating
- Seals: Nitrile with Teflon anti-extrusion ring. Viton, Kalrez, EPDM upon request
- Ports: NPT, SAE



# ISO 16028 Interchange Couplings Flat Face with QPQ Plating

## Data for NBR, Viton, EPDM Seals

DESCRIPTION	SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE						SPILLAGE*
		MPa	psi	COUPLED		MALE		FEMALE		
				MPa	psi	MPa	psi	MPa	psi	MPa
FIRG14Q	1/4	30	4350	120	17400	120	17400	48	6960	0.006
FIRG38Q-12Q	3/8	30	4350	120	17400	120	17400	60	8700	0.012
FIRG12A-34Q	1/2	25	3625	100	14500	100	14500	48	6960	0.020
FIRG34BQ	5/8	25	3625	100	14500	100	14500	48	6960	0.026
FIRG100Q	3/4	25	3625	100	14500	90	13050	40	5800	0.032
FIRG114Q	1	25	3625	100	14500	90	13050	40	5800	0.035
FIRG112Q	1 1/2	20	2900	60	8700	60	8700	32	4640	0.050
FIRG200Q	2	20	2900	60	8700	60	8700	32	4640	0.100

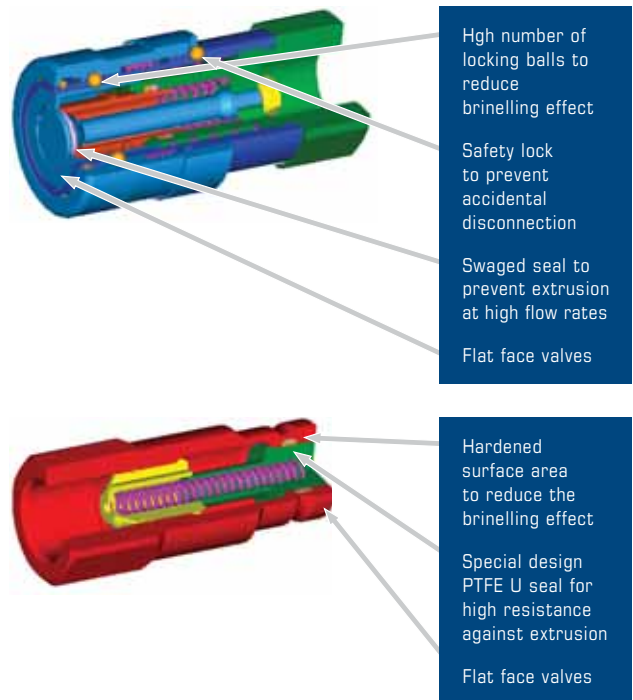
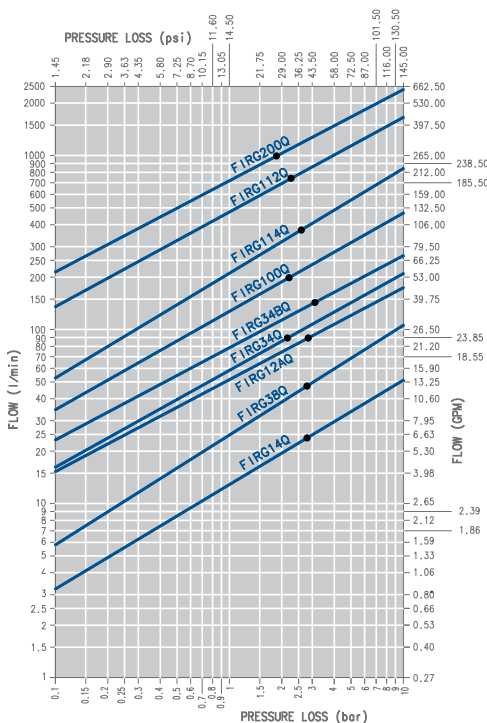
\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE

## Data for FIRG Q w/Kalrez Seals High Temp Applications

DESCRIPTION	SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE						SPILLAGE*
		MPa	psi	COUPLED		MALE		FEMALE		
				MPa	psi	MPa	psi	MPa	psi	MPa
FIRG12A-34QK	1/2	5	725	100	14500	100	14500	48	6960	0.020
FIRG34BQK	5/8	5	725	100	14500	100	14500	40	5800	0.026
FIRG100QK	3/4	5	725	100	14500	90	13050	60	8700	0.032
FIRG114QK	1	5	725	100	14500	90	13050	60	8700	0.035
FIRG112QK	1 1/2	5	725	40	5800	40	5800	32	4640	0.050
FIRG200QK	2	5	725	40	5800	40	5800	32	4640	0.100

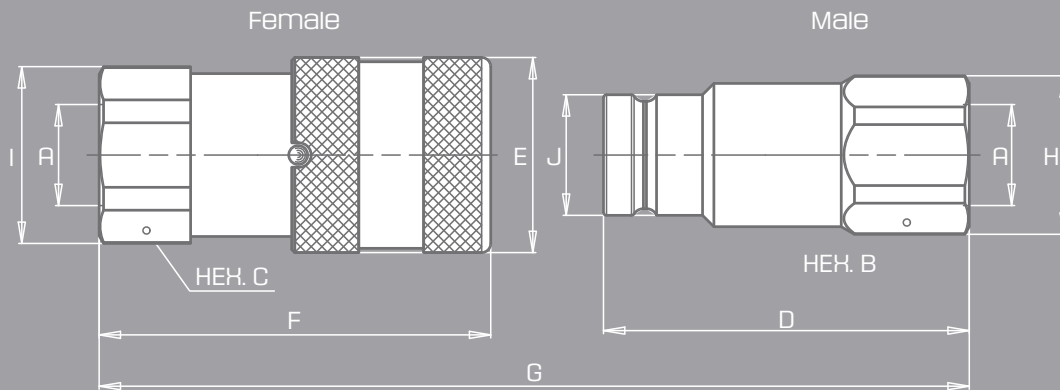
\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE

KALREZ SEALS: FROM -25°C TO 300°C (FROM -13 °F TO 572 °F).





## Flat Face: QPQ Plating Series Size Diagram



DESCRIPTION	BODY SIZE	A	UNIT	B	C	D	E	F	G	H	I	J	UNIT	WEIGHT	
														MALE	FEMALE
FIRG14Q	1/4	1/4	mm	22.0	22.0	47.9	28.0	48.1	85.2	23.8	24.0	16.1	Kg	0.085	0.135
			inch	0.87	0.87	1.89	1.10	1.89	3.35	0.94	0.94	0.63	0.63	lb	0.19
FIRG38Q	3/8	3/8	mm	24.0	27.0	60.0	32.0	64.2	108.7	26.0	29.0	19.7	Kg	0.120	0.240
			inch	0.94	1.06	2.36	1.26	2.53	4.28	1.02	1.14	0.78	0.78	lb	0.26
FIRG12Q	3/8	1/2	mm	27.0	27.0	62.5	32.0	69.2	116.2	29.0	29.0	19.7	Kg	0.130	0.236
			inch	1.06	1.06	2.46	1.26	2.72	4.57	1.14	1.14	0.78	0.78	lb	0.29
FIRG12AQ	1/2	1/2	mm	32.0	32.0	68.0	38.0	73.8	124.5	33.8	33.8	24.5	Kg	0.239	0.384
			inch	1.26	1.26	2.68	1.50	2.91	4.90	1.33	1.33	0.96	0.96	lb	0.53
FIRG34Q	1/2	3/4	mm	36.0	36.0	70.5	38.0	80.8	134.0	38.5	38.5	24.5	Kg	0.227	0.430
			inch	1.42	1.42	2.78	1.50	3.18	5.28	1.52	1.52	0.96	0.96	lb	0.50
FIRG34BQ	5/8	3/4	mm	36.0	36.0	70.5	42.0	78.5	131.4	38.5	38.5	27.0	Kg	0.268	0.473
			inch	1.42	1.42	2.78	1.65	3.09	5.17	1.52	1.52	1.06	1.06	lb	0.59
FIRG100Q	3/4	1	mm	45.0	45.0	82.3	48.0	93.2	153.5	47.8	47.8	30.0	Kg	0.406	0.765
			inch	1.77	1.77	3.24	1.89	3.67	6.04	1.88	1.88	1.18	1.18	lb	0.90
FIRG114Q	1	1 1/4	mm	55.0	55.0	89.8	55.0	106.0	172.8	59.8	59.8	36.0	Kg	0.645	1.240
			inch	2.17	2.17	3.54	2.17	4.17	6.80	2.35	2.35	1.42	1.42	lb	1.42
FIRG112Q	1 1/2	1 1/2	mm	70.0	65.0	111.0	80.0	132.4	214.8	76.0	72.0	57.0	Kg	1.865	2.823
			inch	2.76	2.56	4.37	3.15	5.21	8.46	2.99	2.83	2.24	2.24	lb	4.11
FIRG200Q	2	2	mm	75.0	80.0	123.8	100.0	156.6	241.5	83.5	88.5	73.0	Kg	2.259	5.100
			inch	2.95	3.15	4.87	3.94	6.17	9.51	3.29	3.48	2.87	2.87	lb	4.98

# ISO 16028 Interchange Couplings Flat Face with QPQ Plating

## FIRG Q NPT Thread Flat Face with QPQ Plating | ISO 16028



COUPLER



NIPPLE

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
FIRG Q NPT THREAD					
COUPLER	1/4	1/4	NPT	800901000	F. FIRG 14 QN NPT
NIPPLE	1/4	1/4	NPT	800901001	M. FIRG 14 QN NPT
COUPLER	3/8	3/8	NPT	800901002	F. FIRG 38 QN NPT
NIPPLE	3/8	3/8	NPT	800901003	M. FIRG 38 QN NPT
COUPLER	3/8	1/2	NPT	800901004	F. FIRG 12 QN NPT
NIPPLE	3/8	1/2	NPT	800901005	M. FIRG 12 QN NPT
COUPLER	1/2	1/2	NPT	800901006	F. FIRG 12A QN NPT
NIPPLE	1/2	1/2	NPT	800901007	M. FIRG 12A QN NPT
COUPLER	1/2	3/4	NPT	800901008	F. FIRG 34 QN NPT
NIPPLE	1/2	3/4	NPT	800901009	M. FIRG 34 QN NPT
COUPLER	5/8	3/4	NPT	800901010	F. FIRG 34B QN NPT
NIPPLE	5/8	3/4	NPT	800901011	M. FIRG 34B QN NPT
COUPLER	3/4	1	NPT	800901012	F. FIRG 100 QN NPT
NIPPLE	3/4	1	NPT	800901013	M. FIRG 100 QN NPT
COUPLER	1	1 1/4	NPT	800901014	F. FIRG 114 QN NPT
NIPPLE	1	1 1/4	NPT	800901015	M. FIRG 114 QN NPT
COUPLER	1 1/2	1 1/2	NPT	800901016	F. FIRG 112 QN NPT
NIPPLE	1 1/2	1 1/2	NPT	800901017	M. FIRG 112 QN NPT
COUPLER	2	2	NPT	800901018	F. FIRG 200 QN NPT
NIPPLE	2	2	NPT	800901019	M. FIRG 200 QN NPT