

DAWSONS-TECH[®]

OVER 35 YEARS OF EXPERIENCE



CATALOGUE NO.
QCC-21

INSTRUMENTATION / CNG
QUICK CONNECT COUPLINGS

www.dawsonstech.com

THE COMPANY :

DAWSONS-TECH® is an ISO 9001:2015 certified manufacturing company offers wide range of **Consistent, Reliable and Superior Quality** High Pressure Instrumentation / CNG / Hydrogen Products used in Vehicles, Fueling Equipments like CNG Cascades, CNG Dispensers, Booster Compressors, Online Compressors, Decompression Skid, LCV Filling Post, Meter Regulation Skids, Pressure Regulation Skids, etc.




dedicated team of employees in place. This facilitate us to design and manufacture our product range under stringent quality checks and measurements that ensures **"A TOTAL CUSTOMER SATISFACTIONS"**.

QUALITY :

DAWSONS-TECH® pursues not only performance of its products but also ensures **"TOTAL QUALITY CONTROL MANAGEMENT SYSTEMS IN ACCORDANCE WITH ISO 9001:2015"** which is achieved by alerting and educating each and every employee, the importance of quality and by implementing the quality control procedures at every stage of production to final inspection from incoming raw material to finish products.

MANUFACTURING :

DAWSONS-TECH® established its comprehensive state of art manufacturing and testing facility installing various CNC Turning Centre and CNC Turnmill Centre, Vertical Machining Centre, etc. with the highly motivated and

 OUR CAPABILITIES	 CERTIFICATIONS	 BENEFITS
<ul style="list-style-type: none"> • Over 35 Years of Experience • Excellent Technical Knowledge • Latest Design Equipment's & Software • Modern Manufacturing Facilities • Highly Motivated Team of Employees • Excellent Inspection Facilities • Product Performance Testing Facilities 	<ul style="list-style-type: none"> • ISO 9001-2015 • ISO 14001-2015 • ISO 45001-2018 • PED 2014/68/EU • ASTM F1387-19 • MSS SP-99-2016a • Helium Leak Test • Hydro Static Proof Test • Pneumatic Proof Test 	<ul style="list-style-type: none"> • High Quality • Proven Design for Leak Free Connections • Effective Operations • High Efficiency • Prompt Reply • Maximum Flexibility • Maximum Safety in Operation • Substantial Cost Saving

RESEARCH & DEVELOPMENT :

With our extensive experience, expertise and continues Research & Development with incorporation of advanced technology and high-tech cutting-edge machineries, **DAWSONS-TECH®** is committed to constant upgradation and expand its product range to meet the requirements of its customer to their entire satisfaction at every time.

CUSTOMER SATISFACTION :

We strive to achieve total customer satisfaction and continuously work to set higher goals to provide the reliable quality, timely delivery of our products and prompt services in the best interest of our customers with **Very Competitive Price**.

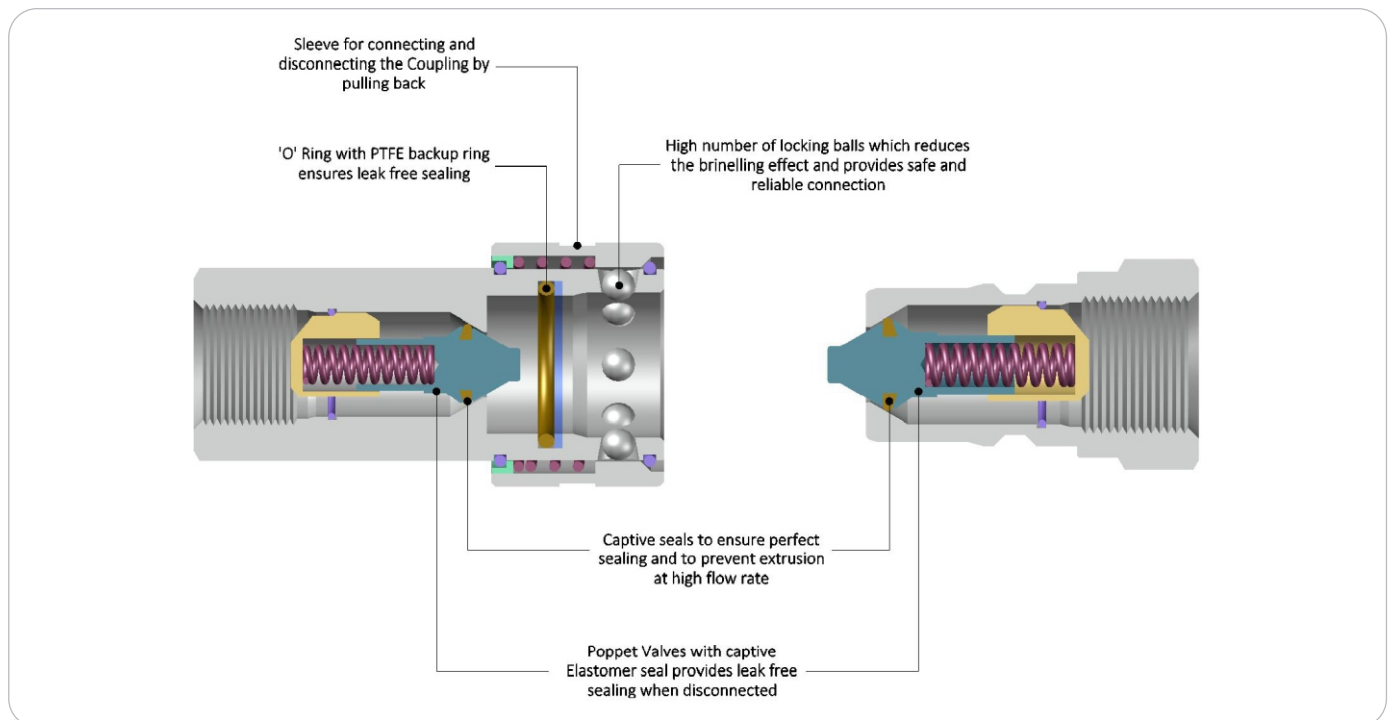
OUR MISSION

DAWSONS-TECH® Series CQ11 Stainless Steel double shut-off Quick Connect Couplings are designed and manufactured to meet the requirements for sealing media on the fluid / gas transfer lines for connecting and disconnecting during maintenance of the equipment's without disrupting the operation and loss of fluids. It is used with chemicals, water, steam, gases, etc.

DAWSONS-TECH® Series CQ11 Quick Connect Couplings are interchangeable with ISO 7241-1 Series 'B' Couplings.

Features / Benefits :

- Available in SS316 with Fluorocarbon seals as standard.
- Robust in construction.
- High flow capacity and positive Valve stop.
- Captive Valve seal ensures leak free sealing and minimize the seals washout due to flaring or damage from high fluid velocity acceleration.
- Seal with PTFE back-up rings designed to ensure reliable and leak free sealing in high pressure applications.
- Ball locking mechanism provides safe and reliable connection.
- Every Coupling is pressure tested.



Product Range & Operating Parameters :

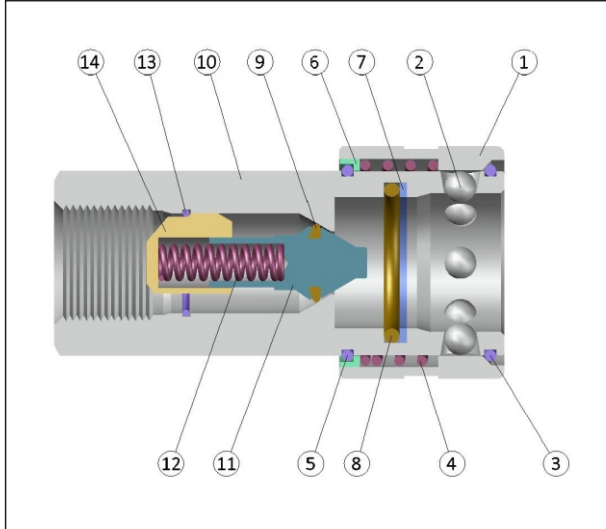
- Pressure Rating : UPTO 5000 PSIG (345 Bar) at CWP.
- Temperature Rating : UPTO to 180° C.
- End Connections - Fractional : 1/4" to 1" Female BSPP, BSPT, NPT etc. Pipe threads.

Applications :

- Industrial Hydraulic lines
- Food and Chemical Processing
- Mobile Equipments
- Some Gases
- Corrosive Fluids and environments

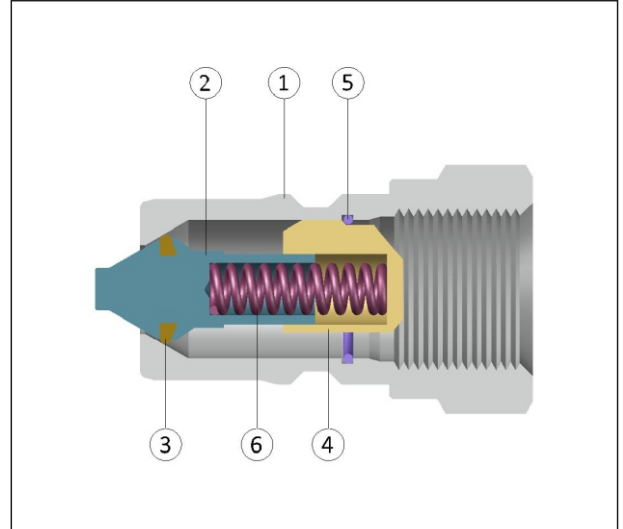
Material of Construction :

Coupler

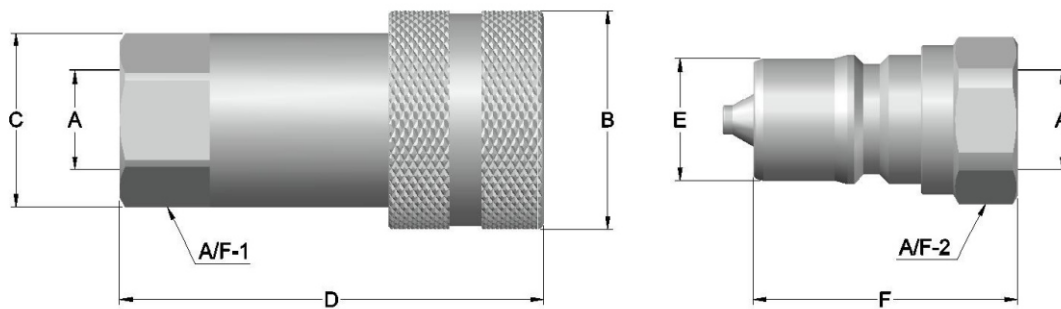


Sr. No.	Description	Material
1	Sleeve	SS316
2	Ball	Stainless Steel
3	Lock Ring	SS316
4	Spring	SS316
5	Lock Ring	SS316
6	Thrust Washer	SS316
7	Backup Ring	PTFE
8	'O' Ring	Fluorocarbon
9	Captive Seal	Fluorocarbon
10	Coupler Body	SS316
11	Captive Seal Retainer	SS316
12	Spring	SS316
13	Lock Ring	SS316
14	Valve Guide	Brass

Plug



Sr. No.	Description	Material
1	Plug Body	SS316
2	Captive Seal Retainer	SS316
3	Captive Seal	Fluorocarbon
4	Valve Guide	Brass
5	Lock Ring	SS316
6	Spring	SS316



STANDARD CONFIGURATION DIMENSIONS

Connection Size	Dimensions in mm/inch							Dawsons-Tech Part No.
	A	B	C	D	E	F	A/F-1	
1/4" BSP	27.0	21.2	58.0	14.2	36.0	19.0	19.0	CQ11-CP-FF4RG
	1.06"	0.83"	2.28"	0.56"	1.42"	0.75"	0.75"	
3/8" BSP	34.0	26.5	66.0	19.0	41.0	24.0	24.0	CQ11-CP-FF6RG
	1.34"	0.94"	2.60"	0.75"	1.62"	0.94"	0.94"	
1/2" BSP	42.0	30.0	74.0	23.5	46.5	27.0	27.0	CQ11-CP-FF8RG
	1.65"	1.18"	2.91"	0.93"	1.83"	1.06"	1.06"	
3/4" BSP	50.0	44.0	92.0	31.5	57.0	36.0	36.0	CQ11-CP-FF12RG
	1.97"	1.73"	3.62"	1.24"	2.24"	1.42"	1.42"	
1" BSP	60.0	52.0	103.0	37.8	63.0	41.0	41.0	CQ11-CP-FF16RG
	2.36"	2.05"	4.05"	1.49"	2.48"	1.61"	1.61"	
1/4" NPT	27.0	21.2	58.0	14.2	36.0	19.0	19.0	CQ11-CP-FF4N
	1.06"	0.83"	2.28"	0.56"	1.42"	0.75"	0.75"	
3/8" NPT	34.0	26.5	66.0	19.0	41.0	24.0	24.0	CQ11-CP-FF6N
	1.34"	1.04"	2.60"	0.75"	1.62"	0.94"	0.94"	
1/2" NPT	42.0	30.0	74.0	23.5	46.5	27.0	27.0	CQ11-CP-FF8N
	1.65"	1.18"	2.91"	0.93"	1.83"	1.06"	1.06"	
3/4" NPT	50.0	44.0	92.0	31.5	57.0	36.0	36.0	CQ11-CP-FF12N
	1.97"	1.73"	3.62"	1.24"	2.24"	1.42"	1.42"	
1" NPT	60.0	52.0	103.0	37.8	63.0	41.0	41.0	CQ11-CP-FF16N
	2.36"	2.05"	4.05"	1.49"	2.48"	1.61"	1.61"	

Dimensions are for reference only and subject to change.

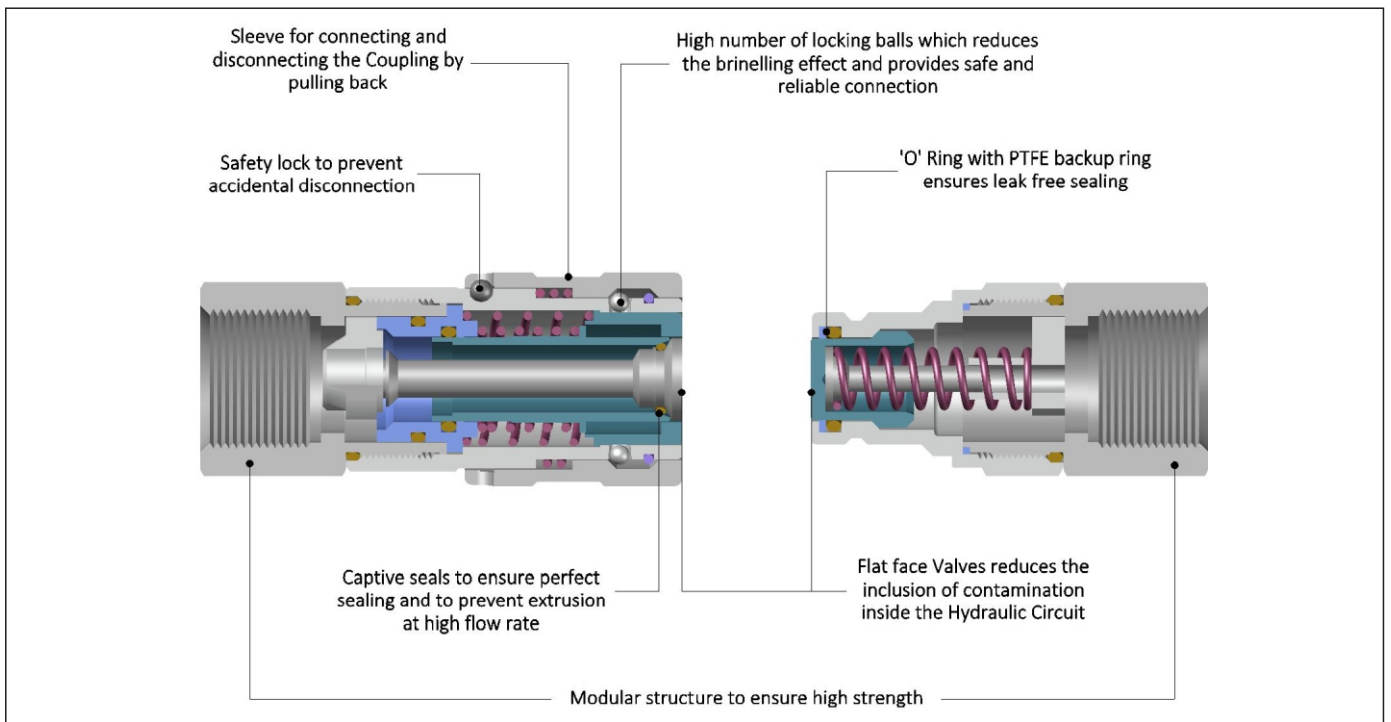
DAWSONS-TECH® Series CQ21 Stainless Steel Double shut-off Flat Face Quick Connect Couplings are designed and manufactured to meet requirements for sealing media in chemical processing, chemical dispensing, food processing and other corrosive applications.

DAWSONS-TECH® Series CQ21 Double shut-off Flat Face Quick Connect Couplings are of Industries interchange design and interchangeable with ISO 16028 Flat Face Couplings.



Features / Benefits :

- Available in SS316 with Fluorocarbon seals as standard.
- Flat Face design is easy to clean and reducing the inclusion of contamination inside the Hydraulic Circuit.
- Prevent fluid loss during disconnection and reducing fluid spillage to the environment.
- Easy to operate and Bidirectional flow.
- Seal with PTFE back-up rings designed to ensure reliable and leak free sealing in high pressure application.
- Ball locking mechanism provide safe and reliable connections.
- Every Coupling is factory tested.



Product Range & Operating Parameters :

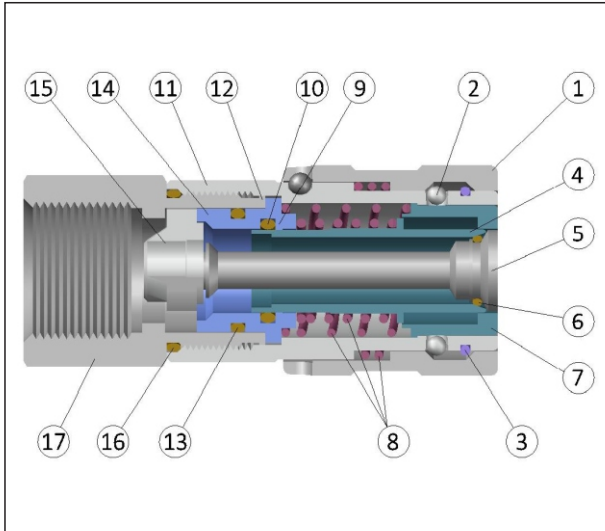
- Pressure Rating : UPTO 5000 PSIG (345 Bar) at CWP.
- Temperature Rating : UPTO to 180° C.
- End Connections - Fractional : 1/4" to 1" Female BSPP, BSPT, NPT etc. Pipe threads.

Applications :

- Industrial Hydraulic lines
- Food and Chemical Processing
- Mobile Equipments
- Some Gases
- Corrosive Fluids and environments

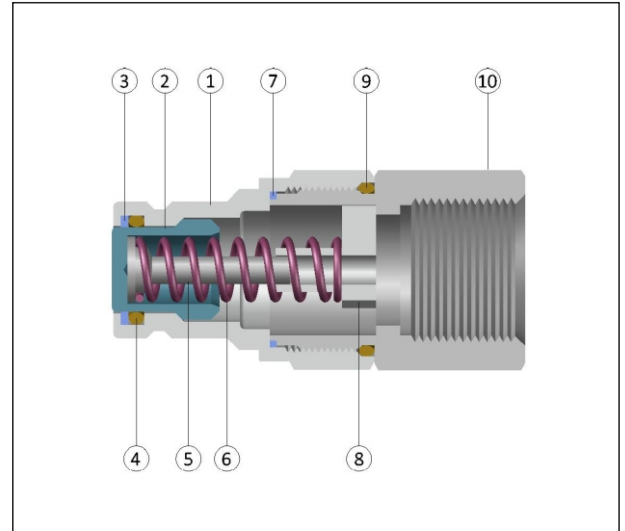
Material of Construction :

Coupler

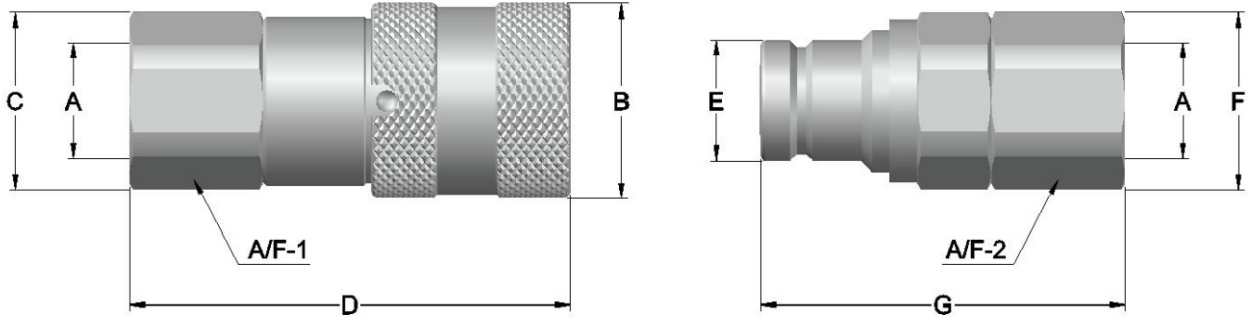


Sr. No.	Description	Material
1	Sleeve	SS316
2	Ball	Stainless Steel
3	Lock Ring	SS316
4	Retainer	SS316
5	Face Pin	SS316
6	Captive Seal	Fluorocarbon
7	Spring Retainer	SS316
8	Spring	SS316
9	Backup Ring	PTFE
10	'O' Ring	Fluorocarbon
11	Housing	SS316
12	Packing	PTFE
13	'O' Ring	Fluorocarbon
14	Adaptor	SS316
15	Plug Flow	Brass
16	'O' Ring	Fluorocarbon
17	End Connector	SS316

Plug



Sr. No.	Description	Material
1	Plug	SS316
2	Spring Retainer	SS316
3	Backup Ring	PTFE
4	'O' Ring	Fluorocarbon
5	Pusher Pin	SS316
6	Spring	SS316
7	Packing	PTFE
8	Plug	SS316
9	'O' Ring	Fluorocarbon
10	End Connector	SS316



STANDARD CONFIGURATION DIMENSIONS

Connection Size	Dimensions in mm/inch								Dawsons-Tech Part No.
	A	B	C	D	E	F	G	A/F-1	
1/4" BSP	28.0	23.8	58.0	16.1	23.8	48.5	22.0	22.0	CQ21-CP-FF4RG
	1.10"	0.94"	2.28"	0.63"	0.94"	1.91"	0.87"	0.87"	
3/8" BSP	32.0	26.0	68.0	19.7	26.0	55.5	24.0	24.0	CQ21-CP-FF6RG
	1.26"	1.02"	2.68"	0.78"	1.02"	2.18"	0.94"	0.94"	
1/2" BSP	38.1	28.9	73.5	19.7	28.9	59.0	27.0	27.0	CQ21-CP-FF8RG
	1.50"	1.14"	2.89"	0.78"	1.14"	2.32"	1.06"	1.06"	
3/4" BSP	42.0	38.6	80.5	24.5	38.6	75.5	35.0	35.0	CQ21-CP-FF12RG
	1.65"	1.52"	3.17"	0.96"	1.52"	2.97"	1.37"	1.37"	
1" BSP	48.0	44.8	101.6	30.0	44.8	93.0	41.0	41.0	CQ21-CP-FF16RG
	1.89"	1.76"	4.0"	1.18"	1.76"	3.66"	1.62"	1.62"	
1/4" NPT	28.0	23.8	58.0	16.1	23.8	48.5	22.0	22.0	CQ21-CP-FF4N
	1.10"	0.94"	2.28"	0.63"	0.94"	1.91"	0.87"	0.87"	
3/8" NPT	32.0	26.0	68.0	19.7	26.0	55.5	24.0	24.0	CQ21-CP-FF6N
	1.26"	1.02"	2.68"	0.78"	1.02"	2.18"	0.94"	0.94"	
1/2" NPT	38.1	28.9	73.5	19.7	28.9	59.0	27.0	27.0	CQ21-CP-FF8N
	1.50"	1.14"	2.89"	0.78"	1.14"	2.32"	1.06"	1.06"	
3/4" NPT	42.0	38.6	80.5	24.5	38.6	75.5	35.0	35.0	CQ21-CP-FF12N
	1.65"	1.52"	3.17"	0.96"	1.52"	2.97"	1.37"	1.37"	
1" NPT	48.0	44.8	101.6	30.0	44.8	93.0	41.0	41.0	CQ21-CP-FF16N
	1.89"	1.76"	4.0"	1.18"	1.76"	3.66"	1.62"	1.62"	

Dimensions are for reference only and subject to change.

Ordering Information :

For Example : PART NO. CQ11-CP-FF8RG-SSV

Series	Item Description	End Connection Type (CP)	End Connection Size	Pipe Thread Type	Material	Seal Material
CQ11	CP	FF	8	RG	SS	V
1	2	3	4	5	6	7

For Example : PART NO. CQ21-CP-FF8RG-SSV

Series	Item Description	End Connection Type (CP)	End Connection Size	Pipe Thread Type	Material	Seal Material
CQ21	CP	FF	8	RG	SS	V
1	2	3	4	5	6	7

1) Coupling Series	CQ11 CQ21
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5) Pipe Thread Type	N : NPT RT : BSPT Female RG : BSP (Female)
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2) Item Description	CP : Coupler & Plug C : Coupler P : Plug
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6) Material	SS : SS316 SSL : SS316L
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3) End Connection Type	F : Female
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7) Seal Material	V : Fluorocarbon R : Nitrile E : EPR Z : Neoprene
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4) End Connection Size	4	1/4"
	6	3/8"
	8	1/2"
	12	3/4"
	16	1"



Fueling Products



Twin Ferrule Compression Tube Fittings



Tube Fittings for
Pressure Rating 15000 PSIG



Precision Thread Pipe Fittings
& Adapters



37° Flare Fittings



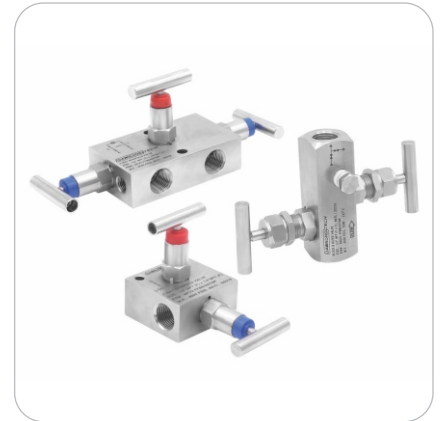
2 Way Ball Valves



3 Way Trunnion Ball Valves



Check Valves



2 / 3 Way Manifold / Block & Bleed Valves



Relief Valves



CNG Receptacles
Series : DTLR01 & DTLR03





CNG Receptacles
Series : DTSR05 & DTSR07



Registered Office and Manufacturing Plant :

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