

**DAWSONS-TECH<sup>®</sup>**

OVER 35 YEARS OF EXPERIENCE

## **QUICK CONNECT COUPLINGS**



***Most Cost Effective, World Class Quality  
Flow Control Components for Wide Range  
of Industries and Applications***

## THE COMPANY

**DAWSONS-TECH** is an ISO 9001:2015 certified manufacturing company offers wide range of **Consistent and Reliable World Class Quality Flow Control Components** used in Fluid / Gas Control systems in a wide range of Industries.

### 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 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 WITH ZERO DEFECT PRODUCTS"**.

### QUALITY :

**DAWSONS-TECH** persues not only performance of its products but also ensures **"TOTAL QUALITY CONTROL MANAGEMENT SYSTEMS IN ACCORDANCE TO 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.

		
OUR CAPABILITIES	CERTIFICATIONS	DEMAND IN INDUSTRIES
<ul style="list-style-type: none"> <li>• Over 35 Years of Experience</li> <li>• Excellent Technical Knowledge</li> <li>• Latest Design Equipment's &amp; Software</li> <li>• Modern Manufacturing Facilities</li> <li>• Highly Motivated Team of Employees</li> <li>• Excellent Inspection Facilities</li> <li>• Product Performance Testing Facilities</li> </ul>	<ul style="list-style-type: none"> <li>• ISO 9001-2015</li> <li>• PED 2014/68/EU</li> <li>• ASTM F1387-19</li> <li>• MSS SP-99-2016a</li> <li>• Helium Leak Test</li> <li>• Hydro Static Proof Test</li> <li>• Pneumatic Proof Test</li> </ul>	<ul style="list-style-type: none"> <li>• Original Equipment Manufacturers</li> <li>• Chemical &amp; Petrochemical</li> <li>• Oil &amp; Gas</li> <li>• Power</li> <li>• Compressed Natural Gas (CNG)</li> <li>• Pharmaceutical</li> <li>• Semiconductor</li> </ul>
 <div>BENEFITS</div> <ul style="list-style-type: none"> <li>• High Quality</li> <li>• Proven Design for Leak Free Connections</li> <li>• Effective Operations</li> </ul>	<ul style="list-style-type: none"> <li>• High Efficiency</li> <li>• Technical Expertise</li> <li>• Prompt Reply</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum Flexibility</li> <li>• Maximum Safety in Operation</li> <li>• Substantial Cost Saving</li> </ul>

### RESEARCH & DEVELOPMENT :

With our long 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 :

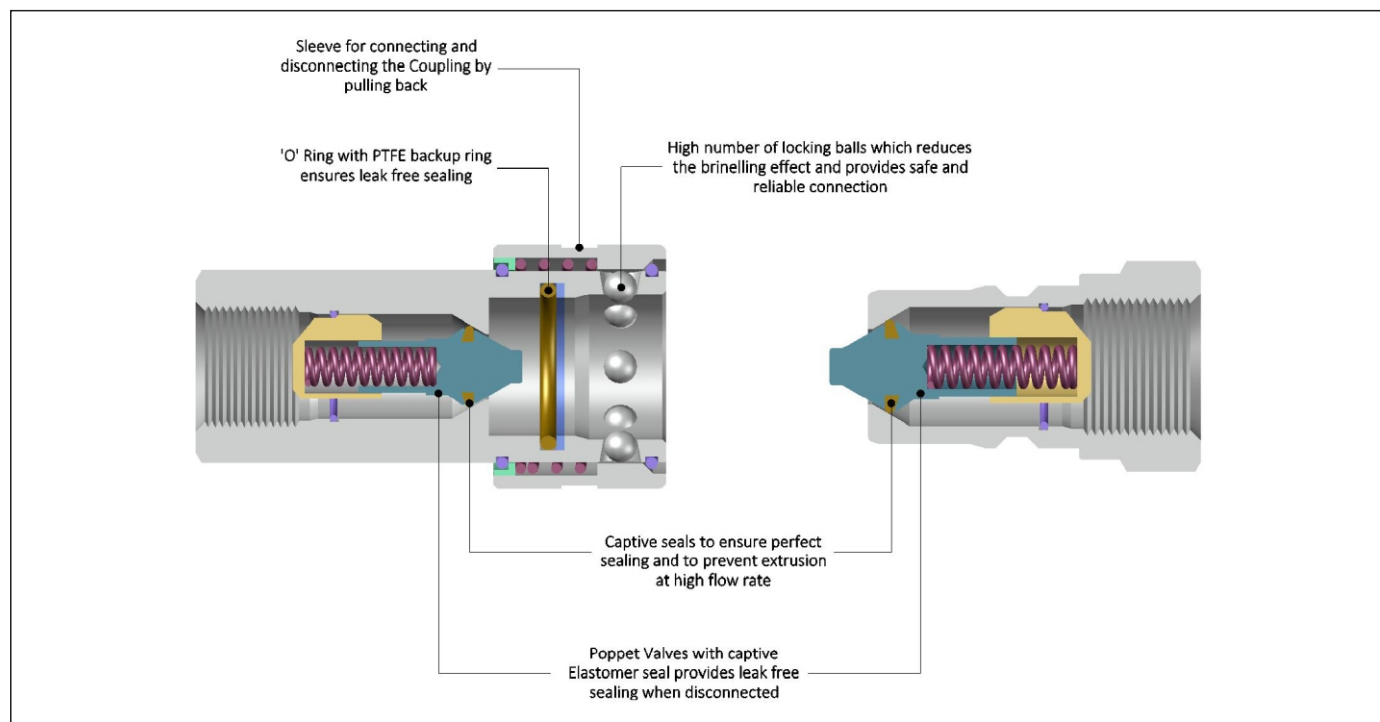
We strive to achieve total customer satisfaction and continuously work to set higher goals to provide the reliable quality, timely delivery of our products and prompt services in the best interest of our customers with very competitive price.

**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 :

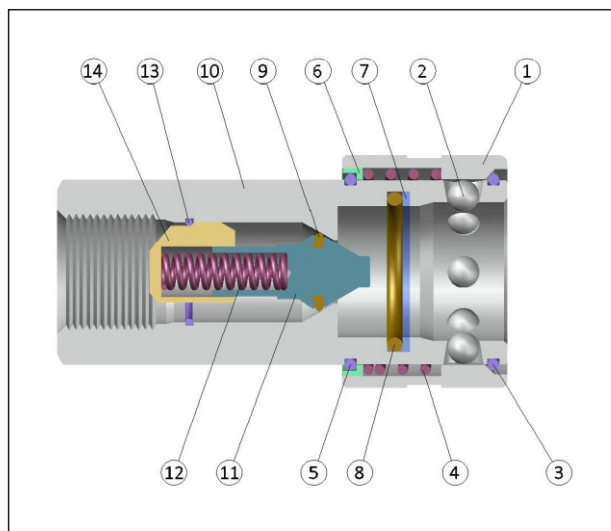
- Pressure Rating : UPTO 5000 PSIG (345 Bar) at CWP.
- Temperature Rating : UPTO to 180° C.
- End Connections - Fractional : 1/4" to 1" Female BSPP, BSPT, NPT etc. Pipe threads.

## Applications :

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

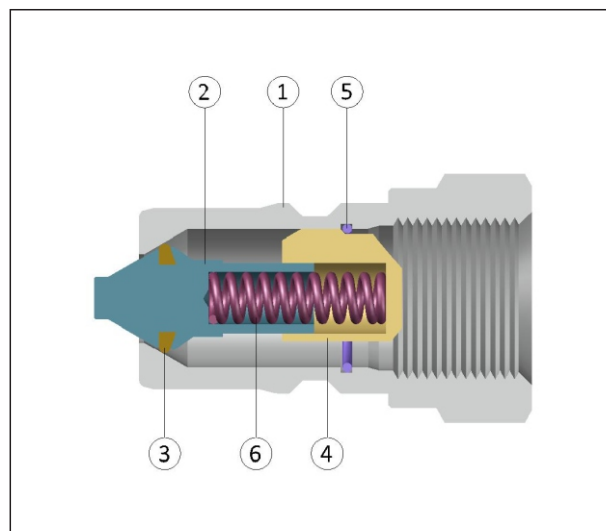
## MATERIAL OF CONSTRUCTIONS

### COUPLER

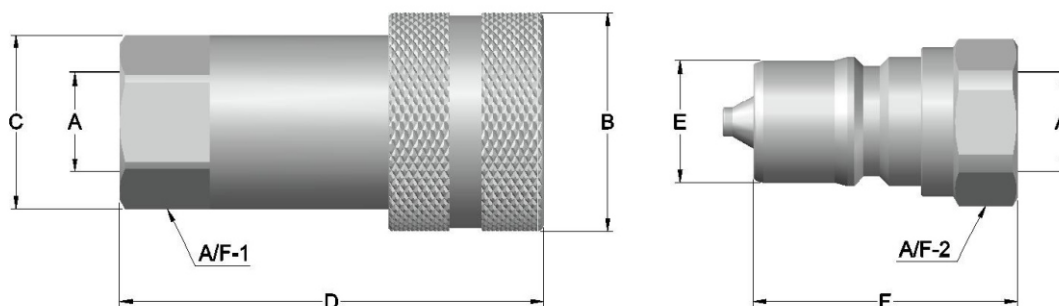


Sr. No.	Description	Material
1	Sleeve	SS316
2	Ball	Stainless Steel
3	Lock Ring	SS316
4	Spring	SS316
5	Lock Ring	SS316
6	Thrust Washer	SS316
7	Backup Ring	PTFE
8	'O' Ring	Fluorocarbon
9	Captive Seal	Fluorocarbon
10	Coupler Body	SS316
11	Captive Seal Retainer	SS316
12	Spring	SS316
13	Lock Ring	SS316
14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

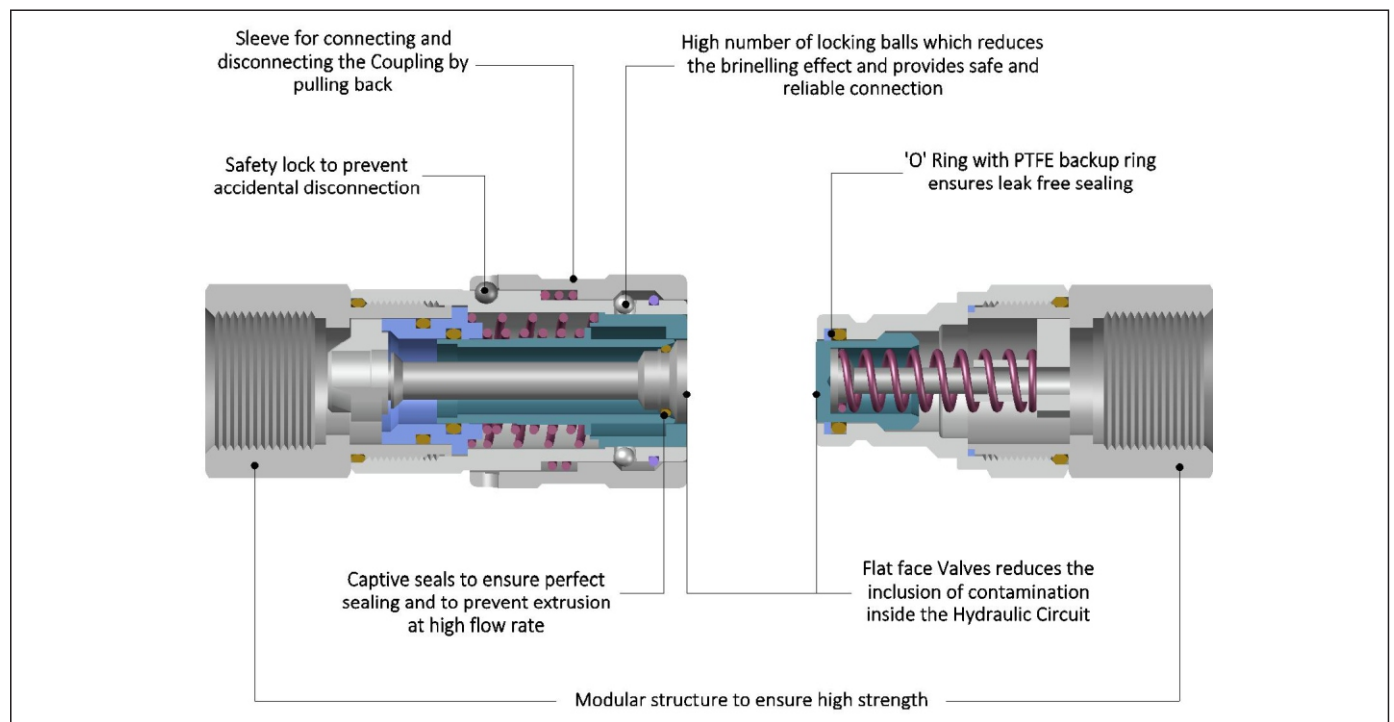
Dimensions are for reference only and subject to change.

**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.

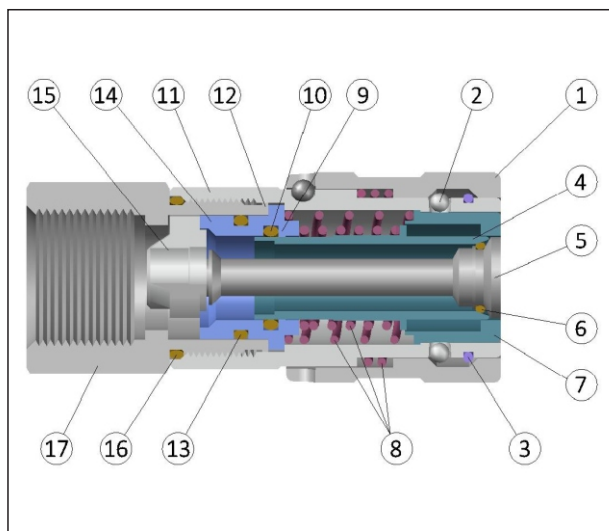
## Applications :

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



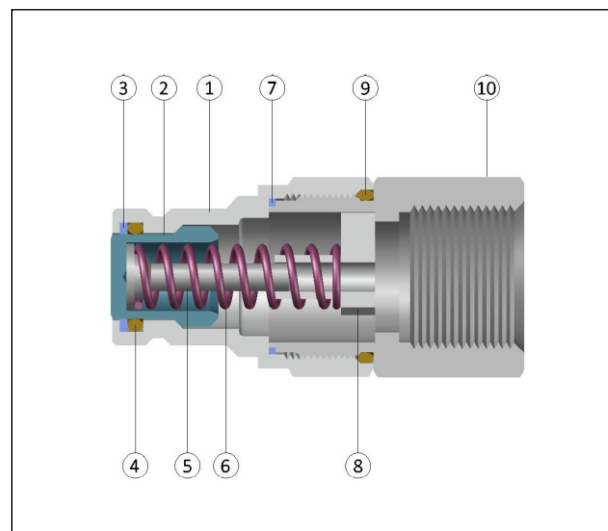
## MATERIAL OF CONSTRUCTIONS

### COUPLER

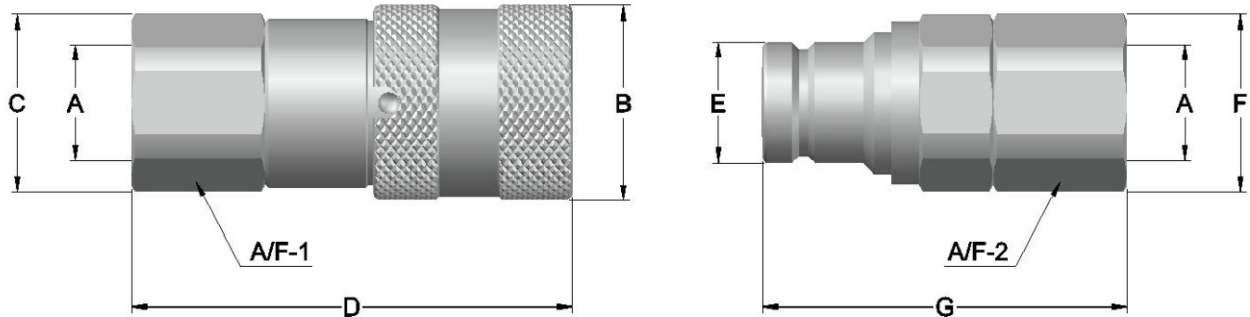


Sr. No.	Description	Material
1	Sleeve	SS316
2	Ball	Stainless Steel
3	Lock Ring	SS316
4	Retainer	SS316
5	Face Pin	SS316
6	Captive Seal	Fluorocarbon
7	Spring Retainer	SS316
8	Spring	SS316
9	Backup Ring	PTFE
10	'O' Ring	Fluorocarbon
11	Housing	SS316
12	Packing	PTFE
13	'O' Ring	Fluorocarbon
14	Adaptor	SS316
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	A/F-2	
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)	<b>Coupling Series</b>	CQ11
		CQ21

5)	<b>Pipe Thread Type</b>	<b>N</b> : NPT
		<b>RT</b> : BSPT Female
		<b>RG</b> : BSP (Female)

2)	<b>Item Description</b>	<b>CP</b> : Coupler & Plug
		<b>C</b> : Coupler
		<b>P</b> : Plug

6)	<b>Material</b>	<b>SS</b> : SS316
		<b>SSL</b> : SS316L

3)	<b>End Connection Type</b>	<b>F</b> : Female
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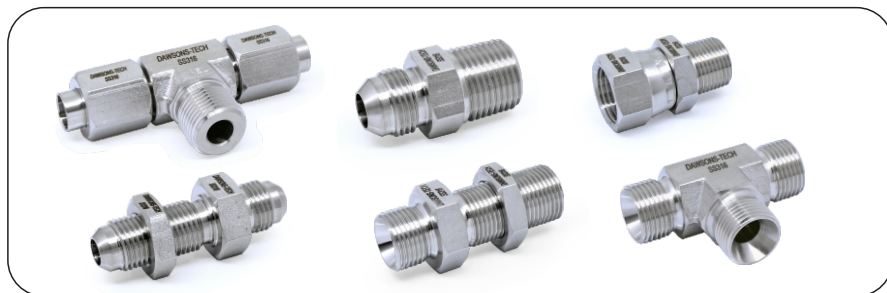
7)	<b>Seal Material</b>	<b>V</b> : Fluorocarbon
		<b>R</b> : Nitrile
		<b>E</b> : EPDM
		<b>Z</b> : Neoprene

4)	<b>End Connection Size</b>	4	1/4"
		6	3/8"
		8	1/2"
		12	3/4"
		16	1"

## OUR PLEDGE

**DAWSONS-TECH** is self-committed for continuous development and upgradation of its products to meet the growing demands for Industries requirements of Flow Control Components by advanced technology induction and cutting-edge solution which is in-line with focused objective mission

**"TO PROVIDE OUR CUSTOMERS WITH CONSISTENT RELIABLE QUALITY PRODUCTS AT RIGHT TIME & COMPETITIVE PRICE"**



**37° Flare Fittings / BSP 60° Cone Fittings**



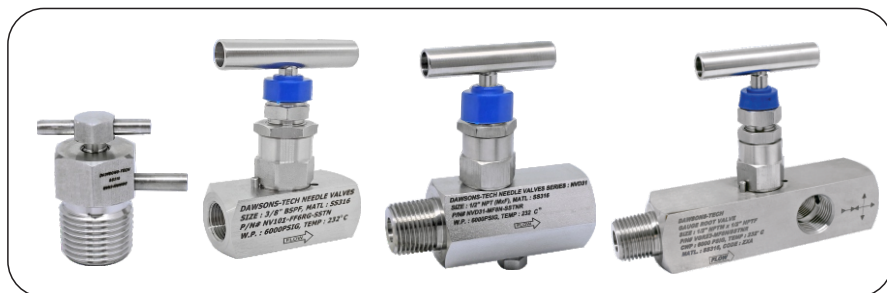
**Precision Threaded / Socket / Butt Weld Pipe Fittings & Adapters**



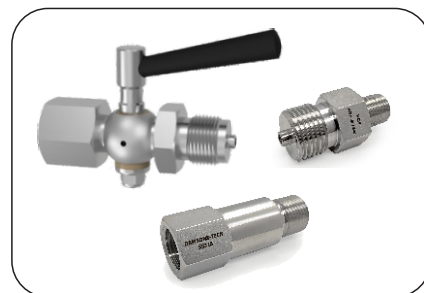
**High Purity Fittings**



**Wellhead Grease / Bleed Fittings & Components**



**Instrumentation Valves**



**Gauge Cock & Accessories**



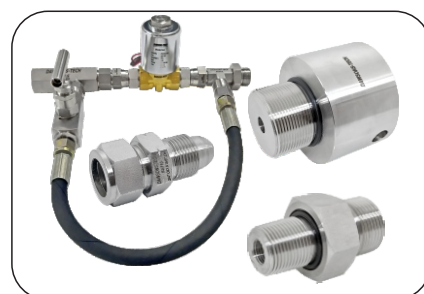
**High Pressure Ball Valves**



**Check Valves**



**Quick Connect Couplings to ISO 16028 & ISO 7241-1 Series B**



**Customized Fittings and Valves**

**NOTES :** \_\_\_\_\_



**Registered Office and Manufacturing Plant :**

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LLPIN: AAN-0434

Catalogue No. QCC-21