

CERTIFICATE

Of Conformity according to MSS SP-99-2016a, Clause No. 5.5 & 5.6
 FOR QUICK CONNECT COUPLINGS

Order No. : 146614918

Certificate No. : 146614918-02

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Name of Manufacturer : **M/s. DAWSONS-TECH COMPONENTS LLP**

Unit No. DD - 6 & 7, Khan Real Industrial Estate,
 N. H. 08, Pelhar, Vasai Phata, Vasai (East),
 Dist. Palghar - 401208, Maharashtra.

Purpose : To evaluate the Performance of DAWSONS-TECH Quick Connect Coupler & Plug Series CQ11 & CQ21.

Procedure of Hydrostatic Proof & Burst Test

- Reference to MSS SP-99-2016a, Clause No. 5.5 & 5.6.

Testing Parameters :

- Pressure Rating : CWP 345 Bar (5000 PSIG)
- Temperature During Test : 20°C
- Test Pressure Tolerance : ± 5% PSIG
- Test Medium : Water
- Verification of SS316 Material Properties : Material reviewed according to MSS SP-99 2016a, Clause No. 3
- Test Time for Monitoring Leakage : 3 Minutes
- Quantity of each size of Couple & Plug : 3 Nos.
- Item Description : Quick Connect Coupler & Plug
- End Connections : 1/4" to 1" NPT (Female) Pipe Thread

Coupling Description : Quick Connect Coupling Series : CQ11 & CQ21

End Connection Size	Dawsons-Tech Part No.	Pressure Rating	Qty.
1/4" NPT (F)	CQ11-CP-FF4N/SS	345 Bar (5000 PSIG)	3 Nos.
3/8" NPT (F)	CQ11-CP-FF6N/SS	345 Bar (5000 PSIG)	3 Nos.
1/2" NPT (F)	CQ11-CP-FF8N/SS	345 Bar (5000 PSIG)	3 Nos.
3/4" NPT (F)	CQ11-CP-FF12N/SS	345 Bar (5000 PSIG)	3 Nos.
1" NPT (F)	CQ11-CP-FF16N/SS	345 Bar (5000 PSIG)	3 Nos.
1/4" BSP (F)	CQ21-CP-FF4RG/SS	345 Bar (5000 PSIG)	3 Nos.
3/8" BSP (F)	CQ21-CP-FF6RG/SS	345 Bar (5000 PSIG)	3 Nos.
1/2" BSP (F)	CQ21-CP-FF8RG/SS	345 Bar (5000 PSIG)	3 Nos.
3/4" BSP (F)	CQ21-CP-FF12RG/SS	345 Bar (5000 PSIG)	3 Nos.
1" BSP (F)	CQ21-CP-FF16RG/SS	345 Bar (5000 PSIG)	3 Nos.



TUV Rheinland (India) Pvt. Ltd.

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Procedure of Hydrostatic Proof Test & Burst Test :

Carry out the Hydrostatic Proof and Burst Test in accordance with MSS SP-99-2016a, Clause No. 5.5 & 5.6.

Test Result :

The Test Result shown below for the Hydrostatic Proof Test and Burst Test in accordance with MSS SP-99-2016a, Clause No. 5.5 & 5.6.

- Each Coupling tested Hydrostatic Proof Test to 2 x CWP i.e. 2 x 345 Bar (5000 PSIG) = 690 Bar (10,000 PSIG).
- After successfully completion of Hydrostatic Proof Test, Hydrostatic Burst Test is carried out.

The Burst Test CWP Rating is calculated using the following formula :

$$\text{i.e. } P \leq 0.25 \text{ BTm} / \text{Ta}$$

Where : P = CWP Rating

B = The lowest Burst Pressure Test recorded for Three Valves Tested

Ta = Actual Tensile Strength of the Valves Tested

Tm = Specified minimum Tensile Strength of the Material

Tested Quick Connect Coupling No.	Hydrostatic Proof Test Result	Hydrostatic Burst Test Result
CQ11-C-F4N/1	PASS*	PASS**
CQ11-C-F4N/2	PASS*	PASS**
CQ11-C-F4N/3	PASS*	PASS**
CQ11-C-F6N/1	PASS*	PASS**
CQ11-C-F6N/2	PASS*	PASS**
CQ11-C-F6N/3	PASS*	PASS**
CQ11-C-F8N/1	PASS*	PASS**
CQ11-C-F8N/2	PASS*	PASS**
CQ11-C-F8N/3	PASS*	PASS**
CQ11-C-F12N/1	PASS*	PASS**
CQ11-C-F12N/2	PASS*	PASS**
CQ11-C-F12N/3	PASS*	PASS**
CQ11-C-F16N/1	PASS*	PASS**
CQ11-C-F16N/2	PASS*	PASS**
CQ11-C-F16N/3	PASS*	PASS**
CQ21-C-F4RG/1	PASS*	PASS**
CQ21-C-F4RG/2	PASS*	PASS**
CQ21-C-F4RG/3	PASS*	PASS**
CQ21-C-F6RG/1	PASS*	PASS**
CQ21-C-F6RG/2	PASS*	PASS**
CQ21-C-F6RG/3	PASS*	PASS**
CQ21-C-F8RG/1	PASS*	PASS**
CQ21-C-F8RG/2	PASS*	PASS**
CQ21-C-F8RG/3	PASS*	PASS**


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Tested Quick Connect Coupler No.	Hydrostatic Proof Test Result	Hydrostatic Burst Test Result
CQ21-C-F12RG/1	PASS*	PASS**
CQ21-C-F12RG/2	PASS*	PASS**
CQ21-C-F12RG/3	PASS*	PASS**
CQ21-C-F16RG/1	PASS*	PASS**
CQ21-C-F16RG/2	PASS*	PASS**
CQ21-C-F16RG/3	PASS*	PASS**

PASS* : No Leakage detected during the test.**PASS**** : No Rupture of Damage noted on the Couplings Body during the Test.

The Calculation Test of CWP rating are based on the Burst Pressure recorder in accordance with MSS SP-99-2016a, Clause No. 5.6 are as per attached following test report.

1. DTMSS-CQ11-4N
2. DTMSS-CQ11-6N
3. DTMSS-CQ11-8N
4. DTMSS-CQ11-12N
5. DTMSS-CQ11-16N
6. DTMSS-CQ21-4N
7. DTMSS-CQ21-6N
8. DTMSS-CQ21-8N
9. DTMSS-CQ21-12N
10. DTMSS-CQ21-16N

Comments :

DAWSONS-TECH Quick Connect Couplings Series : CQ11 & CQ21 meets the requirements of Hydrostatic Proof Test and Hydrostatic Burst Test in accordance with MSS SP-99-2016a, Clause No. 5.5 & 5.6.

Location : Mumbai, India

Date : October 28, 2021

For, TÜV Rheinland (India) Pvt. Ltd.

Malcolm Dadina
(General Manager - Industrial Services)**TÜV Rheinland (India) Pvt. Ltd.**D.S Business Galleria, Office no – 1209, 12th Floor, L.B.S Marg,
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