

Direct Liquid Cooling

**Fully Integrated plug and play Solution.
From Distribution to the IT rack.**

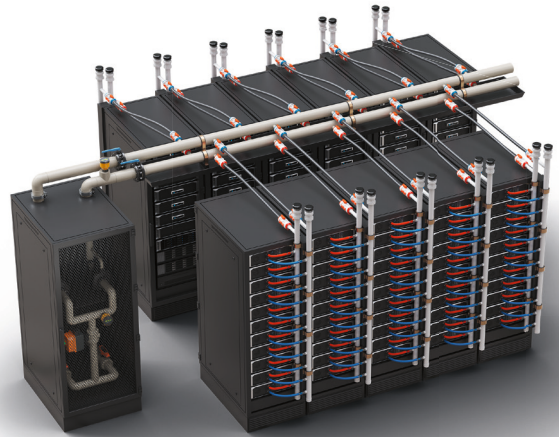
GF Quick Connect Valve 700 Coupling (QC7) with Parker Hose Connection is the new factory-assembled solution combining the strengths of two industry leaders Parker and GF to ensure superior safety in direct liquid cooling.

This fully integrated system brings together Parker's renowned expertise in high-performance hose and robust fitting technology with GF's proven leadership in advanced polymer valve solutions. The result is a dependable, secure, and seamlessly engineered connection solution designed specifically for direct liquid cooling from distribution to the IT rack.

By uniting precision engineering, material excellence, and decades of industry experience, this pre-assembled system guarantees a secure, leak-free, and tamper-resistant connection, for reliable operations.

The pre-assembled system reduces installation risks, and ensures a seamless end to end cooling pathway. The new Quick Connect Valve 700 has two identical halves and a patented locking system. The halves can only be separated when the valve is in the closed position. This gives maximum safety during operation and maintenance.

In collaboration with



Engineered for Performance and Reliability

+ Defined Compatibility

Hose, fitting, and valve are specified and validated as one coordinated assembly. This eliminates tolerance stacking and reduces cross-vendor interface risk.

+ Factory-Controlled Assembly

Crimp parameters, dimensional targets (OD/ID), and tooling are tightly controlled to ensure repeatable and documented quality.

+ Pressure and Life Cycle capability

Qualified hose-fitting-coupling combinations support higher operating pressures and extended service life under continuous thermal and mechanical loads.

+ Cleanliness and System Protection

The QC7's smooth, clean PVDF body minimizes particle retention and reduces flushing time, while the precleaned, sealed, and factory-tested hose assemblies further lower contamination risk during installation

Quick Connect Valve 700

Fast, safe and reliable rack integration into the main cooling distribution lines.

Superior in material properties and design

The advanced quick connect coupling QC7 is engineered for direct liquid cooling in mission critical environments such as high density data centers, AI and HPC clusters, where maximum reliability, safety, and performance are essential. Its design is based on long proven GF technology that has delivered strong performance across multiple industries for many years.

The QC7 features dual ball valves and a patented locking mechanism that allows the halves to separate only when the valve is fully closed. This ensures maximum safety during operation and maintenance, preventing accidental fluid release and enabling secure, repeatable connections in demanding cooling infrastructures.



Dual interlock lever mechanism that prevents accidental decoupling.



50% less weight with same strength, performance, and reliability*.

* compared to metal alternatives



25% better flow full bore valve reduced pressure drop*.

* compared to metal alternatives



Easy handling for supply/return lines.



100% reliable corrosion-free, proven design, and thoroughly tested for long service life.

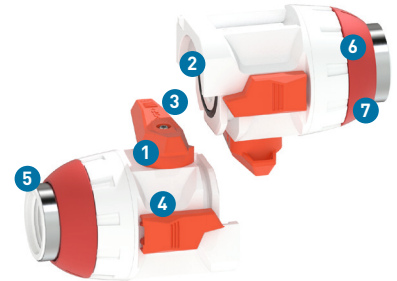
Technical data

Specifications

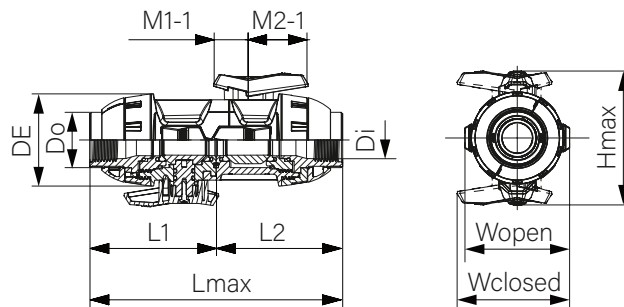
Pressure	Nominal: PN10 / Burst: 3xPN
Valve body material	PVDF (UL 94 V-0 rated)
Gasket material	Face seal EPDM / Ball seat PTFE
Temperature	10 °C to 90 °C
Flow rate	Kv 100 = 570 l/min / Cv 100 = 39 gal/min
Decoupling fluid loss	Approx. 5.5 ml (0.17 oz)
Weight (pair)	0.8 kg
Test standard	ISO 9393
Standards / Approvals	CE, UKCA
End connection	Parker crimped fittings for EZ-Form / Thermal management hose connection * Option: Further end connections available on request: BSPP, Sanitary Clamp, BSPP/Elbow 90°, NPT- Thread and Sanitary Clamp
Media	The valve is compatible with standard liquid coolants used in the direct liquid cooling application (e.g. 25% monopropylene glycol solution).

Features

Description	
1	Lightweight Ball Valve Quick Connector
2	Secure face seal (EPDM) with minimal fluid loss
3	Mechanism which allows easy connection and disconnection
4	Two-handed safety lock for vertical release
5	Crimp Fitting Connection for Parker EZ-Form / Thermal Management Hoses (crimped fitting, stainless steel or as Hybrid in PEEK on request)
6	Interchangeable rings for colour coding the supply and return lines
7	Hexagon below colored clips

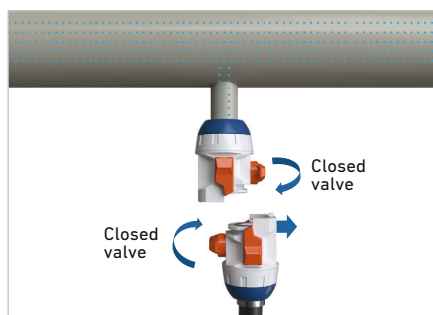


Dimensions



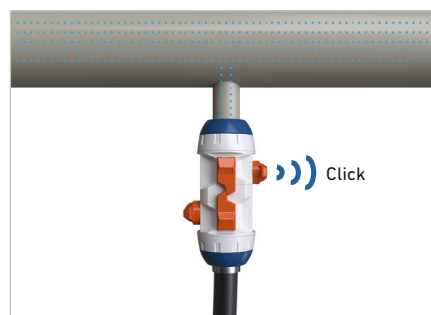
d (mm)	DN (mm)	Inch (")	DE (mm)	Do (mm)	Di (mm)	L1 (mm)	L2 (mm)	M1-1 (mm)	M2-1 (mm)	Lmax (mm)	Hmax (mm)	Wopen (mm)	Wclosed (mm)
32	25	1	70	42	28	96	96	26.5	46	192	102	79.5	85.5

Operating steps



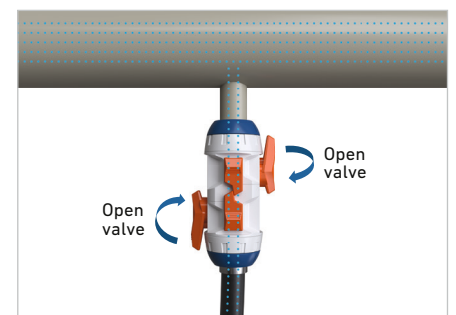
Decoupling

Safe decoupling of the halves is only possible once both valves are closed.



Coupling

Safe coupling of the halves is indicated by an audible click.



Operation

Full flow operation is ensured once both valves are opened.

Integrated Offsite Manufacturing for faster Liquid Cooling Deployment

GF enhances the QC7 solution with advanced offsite manufacturing and engineering expertise, helping you deploy and scale liquid cooling infrastructure with greater speed and consistency.

Quick Connect Valve 700 with Parker Hose Fitting Connection

Features

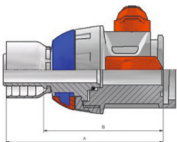
- Two full bore ball valves that only allow flow when both valves are open
- Patented interlock design ensures that the valve cannot be disconnected while it is under pressure
- High flexibility Hose and Connection applications
- Even when the hose is fixed, the connector can still rotate
- Color coding: Blue for supply – Red for return
- Valve connection: crimping fitting in stainless steel or in PEEK as Hybrid-Fitting on request
- Fluid loss: approx. 5.5 ml (0.17 oz)



Products

Option: IF / 48 Serie available E-Z Form Hose Applications. Further end connections; BSPP, NPT Connections, Sanitary Clamp, TriClamp Version acc. ASME-BPE-2009, Elbow Fittings on request.

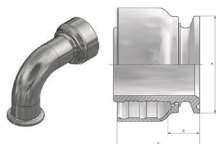
Quick Connect Valve 700



Part Number	Hose I.D.				Tube/valve	A	B
	DN	Inch	Size	mm	O.D. mm	mm	mm
1QCIF-25-16C-BLUE	25	1	-16	25.4	25	124	94
1QCIF-25-16C-RED	25	1	-16	25.4	25	124	94
1QCIF-25-20C-BLUE	31	1 1/4	-20	31.8	25	120	96
1QCIF-25-20C-RED	31	1 1/4	-20	31.8	25	120	96
1QCIF-25-24C-BLUE	38	1 1/2	-24	38.1	25	120	95
1QCIF-25-24C-RED	38	1 1/2	-24	38.1	25	120	95

Pressure Rate of Valve Fitting Connection: Nominal: PN10 / Burst: 3xPN

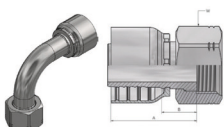
Sanitary Flange



Part Number*	Hose I.D.				Tube O.D.	A	B	F
	DN	Inch	Size	mm	O.D. mm	mm	mm	mm
1FNIF-DN25-16C	25	1	-16	25.4	25	45	15	50.4
1FNIF-DN25-20C	31	1 1/4	-20	31.8	25	43	19	50.4
1FNIF-DN25-24C	38	1 1/2	-24	38.1	25	43	18	50.4
1FNIF-DN40-24C	38	1 1/2	-24	38.1	40	45	20	63.9

Elbows in multiple angles and sizes can be supplied quickly upon request.

Male BSPP Swivel



Part Number	Hose I.D.				Thread	A	B	W
	DN	Inch	Size	mm	metric	mm	mm	mm
1B5IF-16-16C	25	1	-16	25.4	1x11	51	21	41
1B5IF-20-16C	31	1 1/4	-20	31.8	1 1/4x11	50	20	50
1B5IF-20-20C	31	1 1/4	-20	31.8	1 1/4x11	47	23	50
1B5IF-24-20C	31	1 1/4	-20	31.8	1 1/2	47	23	55
1B5IF-24-24C	38	1 1/2	-24	38.1	1 1/2	47	22	55
1B5IF-32-24C	38	1 1/2	-24	38.1	2	54	28	70

Elbows in multiple angles and sizes can be supplied quickly upon request.

The most flexible route from Hose application to Hose installation

E-Z Form™ hose provides extreme flexibility for easy and quick installation of coolant, water and oil suction/return lines on mobile and industrial equipment.

Available in multiple incremental sizes, E-Z Form hose:

- Minimizes the need for costly made-to-order pre-formed hose and metal tubing,
- Lowers the number of connections and potential leak points,
- Reduces installation time,
- provides rapid delivery from stock and does not require dedicated inventory.

Designed to handle extreme bends while allowing full-flow, kink-free performance, E-Z Form hose effectively replaces pre-formed hoses and hose/bent metal tube assemblies in many applications—eliminating special design, tooling and fabrication costs and associated long lead times. Parker has qualified E-Z Form hose with multiple styles of crimp fittings in popular sizes and configurations.

E-Z FORM™ GS

General Service Hose Series 7395/7390

	Series 7395	Series 7390
		
Tube	Peroxide cured EPDM for sizes up through 1"; Sulfur cured for sizes above 1"	Black EPDM , peroxide cured, sizes from 1 1/4 to 3" available
Reinforcement	Multiple textile braids or plies with wire helix	Multiple textile braids or plies with wire helix
Cover	Black EPDM; Greek corrugated finish	Black synthetic rubber; Greek corrugated
Temp. Range	-50 °F to +257 °F (-45 °C to +125 °C)	-40 °F to + 212 °F (-40 °C to +100 °C)
Brand Method	Black text on blue stripe	White text or blue or red mylar stripe
Brand Example	PARKER SERIES 7395 E-Z FORM™ GS HOSE XXX PSI MAX WP	PARKER SERR ES 7390 E-Z FORM M EPDM -P Hose
Design Factor	4:1	4:1
Industry Standards	SAE J20R2-D1 performance UL94 Flame Resistant Rating HB	UL94 Flame Resistant
Applications	Air, coolant, mild chemicals, water Coolant systems, drain lines, vacuum service SAE-performance in engine coolant service	DI water and glycol based coolant solutions
Vacuum	29 Hg	29 Hg

In collaboration with



Visit our webpage to get in touch with your local specialist:
go.georgfischer.com/locations

The information and technical data (altogether "Data") herein are not binding, unless explicitly confirmed in writing. The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All Data is subject to modification. The General Terms and Conditions of Sale of Georg Fischer Piping Systems apply.

