

THERMAL MANAGEMENT

PRODUCT CATALOG



DRY BREAK QUICK CONNECTORS

DRY BREAK QUICK CONNECTORS

ARaymond's dry break couplings with double shut-off valves are designed to **simplify the assembly** and maintenance of complex thermal management systems. These **robust and easy-to-use** connectors eliminate the need to drain cooling fluids, enabling quick and **efficient maintenance**, and significantly reducing equipment downtime. They are suitable for a wide range of applications, **providing an effective option** for various industries.

BATTERY ENERGY STORAGE SYSTEMS



DATA CENTERS / SERVERS



SUPERCHARGING STATIONS



EV BATTERY PACKS



Benefits

DRY BREAK QCs



QUALITY AND SAFETY

- Leak-free connection and disconnection
- Low pressure drop
- Smart locking system
- Resistant to repeated handling
- Resistant to vibrations



EASE-OF-USE



SMART MATERIALS

- Biobased or UL94 V0 flame-resistant material
- Significant weight reduction compared to metal
- Corrosion-resistant
- Cost-efficient



CUSTOMIZATION

- Tailored design on demand
- Plastic threaded options available
- Low pressure drop designs



CONTACT US
TO DISCUSS
YOUR NEEDS

WIDE RANGE
OF CONNECTOR
OPTIONS



	Ø 15.82	Ø 18.00																																	
TUBE DIAMETER	10 ~ 14 mm	14 ~ 18 mm																																	
FLOW RATE	4 ~ 10 L/min	8 ~ 15 L/min																																	
OPERATING TEMPERATURE	-40°C to 85°C	-40°C to 85°C																																	
OPERATING PRESSURE	0 ~ 3 bar (peak 4 bar)	0 ~ 3 bar (peak 4 bar)																																	
LOW PRESSURE DROP	<table><thead><tr><th>Flow rate (L/min)</th><th>Pressure drop (mbar) - Dark Blue</th><th>Pressure drop (mbar) - Light Blue</th></tr></thead><tbody><tr><td>5</td><td>31.13</td><td>29.86</td></tr><tr><td>10</td><td>115.04</td><td>105.61</td></tr><tr><td>15</td><td>250.07</td><td>225.94</td></tr><tr><td>20</td><td>439.77</td><td>398.16</td></tr></tbody></table>	Flow rate (L/min)	Pressure drop (mbar) - Dark Blue	Pressure drop (mbar) - Light Blue	5	31.13	29.86	10	115.04	105.61	15	250.07	225.94	20	439.77	398.16	<table><thead><tr><th>Flow rate (L/min)</th><th>Pressure drop (mbar) - Dark Blue</th><th>Pressure drop (mbar) - Light Blue</th></tr></thead><tbody><tr><td>4</td><td>5.78</td><td>5.53</td></tr><tr><td>8</td><td>19.81</td><td>16.85</td></tr><tr><td>12</td><td>43.67</td><td>35.60</td></tr><tr><td>16</td><td>76.14</td><td>60.81</td></tr><tr><td>20</td><td>118.48</td><td>93.55</td></tr></tbody></table>	Flow rate (L/min)	Pressure drop (mbar) - Dark Blue	Pressure drop (mbar) - Light Blue	4	5.78	5.53	8	19.81	16.85	12	43.67	35.60	16	76.14	60.81	20	118.48	93.55
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QC → end-piece

end-piece → QC

	Ø 22.70														
TUBE DIAMETER	19 ~ 25 mm														
FLOW RATE	15 ~ 30 L/min														
OPERATING TEMPERATURE	-40°C to 85°C														
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Straight connectors tested at room temperature with 50/50 water & ethylene glycol fluid



The ARaymond promise



A TRUSTED PARTNER

With over 40 years of experience in fluid handling, our comprehensive portfolio of Quick Connectors encompasses all the necessary diameters and features for ideal thermal management systems.



PROVEN EXPERTISE

From the initial stages of design and engineering to plastic injection and assembly, ARaymond offers a wide range of off-the-shelf connectors as well as custom-made solutions.



SUSTAINABLE QUALITY


Committed to help you achieve your sustainability goals and create value using eco-design and recycled and bio-based materials.

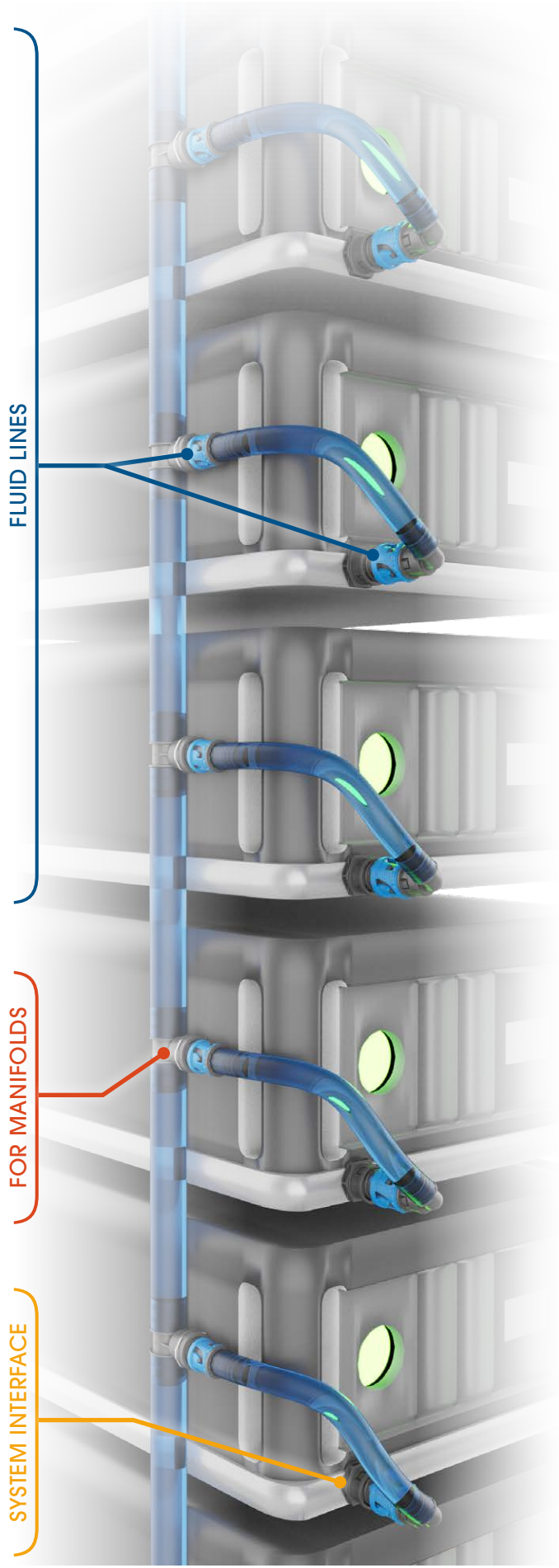


A SINGLE SUPPLIER

Present in 25 countries worldwide, we work close to you.

15.82-5/8in

TUBE	DBA2 STRAIGHT	DBA3 90°
Tube 10x12	 DRY BREAK SHUT OFF VALVE	 DRY BREAK SHUT OFF VALVE
TUBE	DBA16 STRAIGHT	
Tube 12x14 or 1/2in	 DRY BREAK SHUT OFF VALVE	
TUBE	DBA6 STRAIGHT	DBA7 90°
Tube 14x16 or 5/8in	 DRY BREAK SHUT OFF VALVE	 DRY BREAK SHUT OFF VALVE
TUBE	DBA8 3 WAY	DBA9 90°
Tube 25x29	 END PIECE SHUT OFF VALVE	 END PIECE SHUT OFF VALVE
END PIECE	DBA1 STRAIGHT	
M20x1.5	 END PIECE THREADED SHUT OFF VALVE	



18.00

TUBE	DBB2 STRAIGHT	DBB3 90°	DBB4 STRAIGHT
Tube 15x18	 DRY BREAK SHUT OFF VALVE	 DRY BREAK SHUT OFF VALVE	 END PIECE SHUT OFF VALVE
END PIECE	DBB1 STRAIGHT		
M20x1.5	 END PIECE THREADED SHUT OFF VALVE		

22.70

TUBE	DBC1 STRAIGHT	DBC2 90°
Tube 25x29	 DRY BREAK SHUT OFF VALVE	 DRY BREAK SHUT OFF VALVE LOW PRESSURE DROP
HOSE	DBC6 STRAIGHT	
Hose 26	 END PIECE SHUT OFF VALVE	

ARAYMOND, AROUND THE WORLD



CONTACT US

AMERICAS

USA & CANADA

+1 248 265 4000

contact.connecting.us@araymond-automotive.com

BRAZIL

+55 19 3836 6900

contact.connecting.br@araymond-automotive.com

ASIA

CHINA

+86 0511-85309100

contact.connecting.cn@araymond-automotive.com

INDIA

+91 (2135) 676 200

contact.connecting.in@araymond-automotive.com

JAPAN

+81 463 40 8600

contact.connecting.jp@araymond-automotive.com

SINGAPORE

+ 65 6634 1041

contact.sg@araymond-automotive.com

SOUTH KOREA

+82 70 5055 5000

contact.kr@araymond-automotive.com

THAILAND

+ 66 2653 3174

contact.sg@araymond-automotive.com

VIETNAM

+ 84 347910808

contact.sg@araymond-automotive.com

EMEA

CZECH REPUBLIC

+420 48 335 81 11

contact.connecting.cz@araymond-automotive.com

FRANCE

+33 4 76 33 49 49

contact.connecting.fr@araymond-automotive.com

GERMANY

+49 7634 50800

contact.connecting.de@araymond-automotive.com

ITALY

+39 161 937311

contact.connecting.it@araymond-automotive.com

SWEDEN (SALES AGENT)

+46 31 703 34 40

stefan.andreasson@ci-pihl.com

TÜRKIYE

+90 262 658 1058

contact.connecting.tr@araymond-automotive.com

UNITED KINGDOM

+44 1732 871934

contact.connecting.uk@araymond-automotive.com

www.araymond-mobility.com