



New Series

— Compared to the conventional quick joint,
flow rate is three times higher —

FF Quick Joints

《Full Flow Quick Joint》



Full Flow Quick Joint

1. Features

- Ihara Science FF Quick Joints have been developed as an alternative to the conventional quick joint.

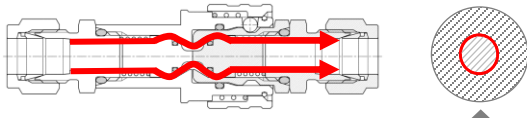
Keeping the “Easy Desorption” of the quick joint, maximizes flow path area (full flow) reduces pressure loss and saves energy.

Equipped with fail-safe mechanism (cannot be detached when [Open], does not [Open] when detached).

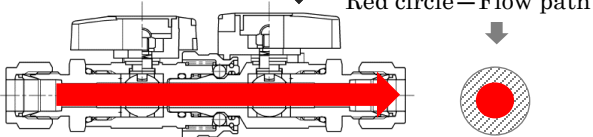
Accidental operation prevention has been implemented.

② *Flow path = “Full Flow”*

Conventional Quick Joint



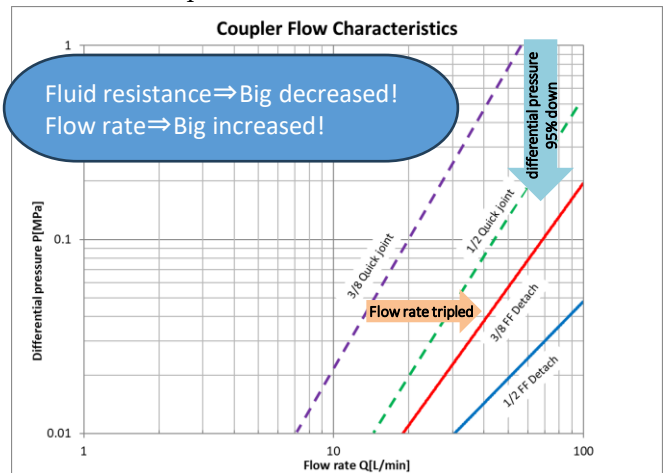
FF Quick Joints



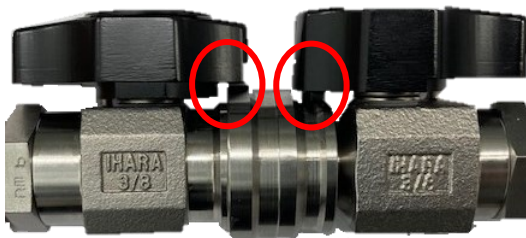
Cross-sectional view
Red circle = Flow path

Reduced flow resistance saves energy !

FF Quick Joints / conventional Quick joint Comparison of Flow characteristics



③ *Reliable with a “Fail-Safe Mechanism”*



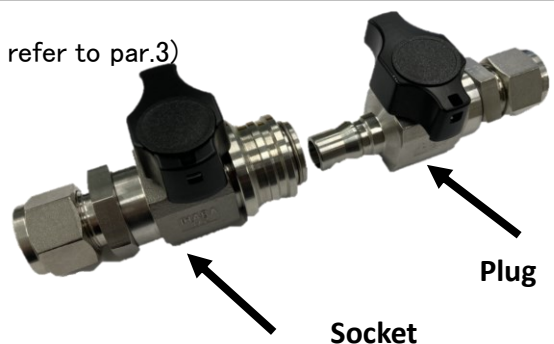
It can't be detached when [Open]



Does not [Open] when detached

2. Specifications

- Socket size : 1/4" · 3/8" · 1/2" (Connection size, refer to par.3)
- Rated pressure : 1MPa(150psi)
- Material : SS304 & SS316 (Gaskets:FKM &PTFE)
- Temperature range : -10 °C ~ 80 °C
- Others : ① Excellent flow characteristics
② Equipped with fail-safe mechanism



3. Model Numbers

Only socket has valve

Both ends with valves



QF 6 VF - 4 D 6 D - P - R

① Body size

② Type

③ Socket size

④ Socket connecting type

⑤ Plug size

⑥ Plug connecting type

⑦ Handle type

⑧ Color of handle

① : Body size

Symbol	Size (Inch)	Ball dia. (mm)
4	1/4	5
6	3/8	7
8	1/2	10

② : Type

Both ends with valve	
Symbol	Type
VF	Set(Socket + Plug)
SL	Socket ※1
PV	Plug ※2
Only socket with Valve	
Symbol	Type
F	Set(Socket + Plug)
S	Socket ※1
P	Plug ※2

④・⑥ : Connection type

Symbol	Connection type ※3
D	BI-Lok
C	BI-Lok Bulkhead
P	R thread Male
R	R thread Female
O	NPT thread Male
N	NPT thread Female
EP	EP-fit
E1	E1touch

⑦ : Handle type

Symbol	Type
P	Plate handle
A	Lever handle

⑧ : Color of handle

Symbol	color
Blank	Black(standard)
R	Red
B	Blue
Y	Yellow
G	Green



Lever handle

Plate handle

BI-Lok (SS tube)		Thread		EP-fit(Polyurethane tube)(O.D.×I.D.)				E1Touch(Vinyl hose)(O.D.×I.D.)			
Inch		Metric		R thread · NPT thread		Metric		Metric			
Symbol	Size	Symbol	Size	Symbol	Size(Inch)	Symbol	Size	Symbol	Size		
4	1/4	4 M	φ 4	4	1/4	4 × 2	φ 4 × φ 2	6.35 × 3.18	φ 6.35 × φ 3.18	4 × 9	φ 4 × φ 9
	(φ6.35)	6 M	φ 6	6	3/8	4 × 2.5	φ 4 × φ 2.5	6.35 × 3.96	φ 6.35 × φ 3.96	6 × 11	φ 6 × φ 11
6	3/8	8 M	φ 8	8	1/2	6 × 4	φ 6 × φ 4	6.35 × 4.35	φ 6.35 × φ 4.35	8 × 14	φ 8 × φ 13.5
	(φ9.53)	10 M	φ 10			8 × 5	φ 8 × φ 5	9.53 × 6.35	φ 9.53 × φ 6.35	9 × 15	φ 9 × φ 15
8	1/2	12 M	φ 12	8 × 6	φ 8 × φ 6	9.53 × 6.99	φ 9.53 × φ 6.99	10 × 16	φ 10 × φ 16		
				10 × 6.5	φ 10 × φ 6.5	9.53 × 7.52	φ 9.53 × φ 7.52				
	10 × 8	φ 10 × φ 8	12.7 × 9.53	φ 12.7 × φ 9.53							
	12 × 8	φ 12 × φ 8									
				12 × 9	φ 12 × φ 9						
				12 × 10	φ 12 × φ 10						

※1 When ordering socket individually, leave ⑤⑥ blank.

※2 When ordering plug individually, leave ③④ blank.

※3 In addition to the above sizes and types, various other connections are also available.

Examples of model numbers

(Ex) Inquiry for Only socket has valve

- ① Body size 1/2 in. ② Only socket has valve
- ③ Connecting size of socket side 1/2 in ④ Connect type BI-LOK
- ⑤ Connecting size of plug side $\Phi 12 \times \Phi 9$ ⑥ Type EP-fit
- ⑦ Plate handle (without FS)

※ When same size on E1, EP connection, show one size.

Ex. : Body size 3/8, Connect type EP-fit $\Phi 8 \times \Phi 6$

【 QF 8 F - 8 D 12 × 9 EP-P 】

【 QF 6 F - 8 × 6 EP-P 】

(Ex) Inquiry for individual plug (only socket has valve)

- ① Body size 3/8 in ② only socket has valve , individual Plug
- ⑤ Plug side, connect size $\Phi 9 \times \Phi 15$ ⑥ Connect type e1 touch
- ⑦ Plate handle (without FS)

【 QF 6 P - 9 × 15 E1-P 】

(Ex) Inquiry for full set , valves on both sides

- ① Body size 3/8 in ② Both valves, plug + Socket set
- ③ Connect size on socket side 1/4 in ④ Connect type BI-Lok
- ⑤ Connect size on plug side 3/8 in ⑥ Connect type BI-Lok
- ⑦ Lever handle ⑧ Color of handle : Red

【 QF 6VF -4D6D-A-R 】

4. Examples of connecting types



BI-Lok...SUS tubing



R thread · NPT thread(male)



EP-fit...Plastic tubing*



E1 touch...Plastic hose

Various other shapes of connection are available. Inquire for more details.



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Warning

If you don't select and handle fittings, valves and related accessories in an adequate manner, it may injure human beings and damage applicable systems. Within the responsibility and authorization of users and piping designers, fittings, valves and related accessories shall be adequately selected, assembled, used and maintained based on the applicable conditions and product conformity to the system to be applied. Please read our operation manual carefully and feel free to contact us if you have any questions or requests.

WARRANTY CLAUSE

1. Warranty Period

The warranty period of the products is one (1) year from start of use or one and half (1.5) years after delivery, whichever comes earlier. However, the products with special specification and/or the cases used deviating from the design specification shall be exempted.

2. Scope of Warranty

For any failure and damage under maker's responsibility found during the warranty period, the substitutes and/or replacement parts shall be provided free of charge. The warranty shall not be applied to a claim for the liquidated damages.

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