

Quick - connects

SQC Series, SFQC Series



SUPERLOK®

BMT Co., Ltd.
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INSTRUMENTATION QUICK - CONNECTS

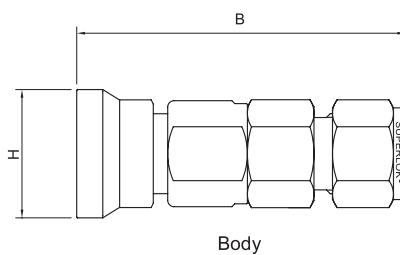
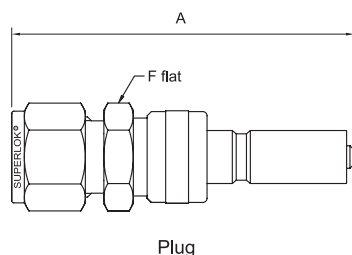
SQC SERIES



FEATURES

- Simple push-pull action to connect and disconnect lines-no tools required.
- Plug and body are available valved or unvalved. valves automatically open when connected and shut off when disconnected to minimize the loss of liquids or gases.

TABLE OF DIMENSIONS



Unit : mm

Unit : mm

Ordering Number				Cv		End Connection	A		F			
Plug Series		Part no.		SO	DO	Type	SO	DO				
SO	DO											
SQC1P -SO	SQC1P -DO	S	2	0.08	0.08	1/8 " Superlok		70.4	15.9			
			4	0.4	0.2	1/4 " Superlok		61.5				
			6M			6mm Superlok						
		M	2N			1/8 " Male NPT		54.1				
			4N(R)			1/4 " Male NPT(PT)		57.9				
			F			2N	1/8 " Female NPT			52.6		
		4N(R)		1/4 " Female NPT(PT)		58.9	19.1					
		SQC2P -SO	SQC2P -DO	S	6	1.5	0.5	3/8 " Superlok			67.1	19.1
10M	10mm Superlok							70.4				
M	4N				1/4 " Male NPT				61.9			
	6N(R)			1.6	0.5	3/8 " Male NPT(PT)	62.7	22.2				
F	4N			1.5	0.5	1/4 " Female NPT						
	6N(R)			1.6	0.5	3/8 " Female NPT(PT)						
SQC3P -SO	SQC3P -DO			S	8	3.3	1.5	1/2 " Superlok		80.3	23.8	
					12M			12mm Superlok				
		M	8N(R)	3.1	1.3	1/2 " Male NPT(PT)		77.2				
		F	8N(R)			1/2 " Female NPT(PT)		76.7	27.0			

• SO : Single shutoff type

• DO : Double shutoff type

Ordering Number			End Connection	B	H		
Body Series	Part no.		Type				
SQC1B	S	2	1/8 " Superlok	57.4	23.1		
		4	1/4 " Superlok	58.4			
		6M	6mm Superlok				
	M	2N	1/8 " Male NPT	51.1			
		4N(R)	1/4 " Male NPT(PT)	56.9			
	F	2N	1/8 " Female NPT			61.5	
		4N(R)	1/4 " Female NPT(PT)				
	SQC2B	S	6	3/8 " Superlok		65.5	26.2
10M			10mm Superlok	68.1			
M		4N	1/4 " Male NPT	60.5			
		6N(R)	3/8 " Male NPT(PT)				
F		4N	1/4 " Female NPT	64.5			
		6N(R)	3/8 " Female NPT(PT)	65.3			
SQC3B		S	8	1/2 " Superlok	78.5	30.7	
			12M	12mm Superlok			
	M	8N(R)	1/2 " Male NPT(PT)	75.4			
	F	8N(R)	1/2 " Female NPT(PT)	81.8			

MATERIALS OF CONSTRUCTION

Component	Material
Body	316 SS
Housing	
Double shut off stem	
Double shut off stem retainer	
Body valve	
Body insert	
Single shut off stem retainer	
O-ring	Viton
Spring	304 SS
Body sleeve	316 SS
Plug sleeve	
Locking Balls	

INSERTION DEPTH

Series	Depth, in.(mm)	
	SO	DO
SQC 1	1.09(27.7)	1.15(29.2)
SQC 2	1.18(30.0)	1.30(33.0)
SQC 3	1.48(37.6)	1.68(42.7)

SPILLAGE

Spillage is the amount of system fluid that escapes when a quick-connect is uncoupled (double shut off only)

Series	SPILLAGE
SQC 1	0.3 cm ³
SQC 2	1.0 cm ³
SQC 3	3.0 cm ³

ORDERING INFORMATION

SQC2P - S 6 - DO - SS
1 2 3 4 5

- 1 Body Series Plug Series**
 SQC1B SQC1P
 SQC2B SQC2P
 SQC3B SQC3P

- 3 End Connection Size**
 - Tube O.D Designation

Tube O.D (inch)	1/4	3/8	1/2
Designation	4	6	8
Tube O.D (mm)	6	10	12
Designation	6M	10M	12M

- 4 Plug Type**
 SO : Single Shutoff Type
 DO : Double Shutoff Type

- 2 End Connection**
 S : SUPERLOK Tube Fitting
 F : Female Thread
 M : Male Thread

- Pipe Thread Designation

Size (inch)	1/8	1/4	3/8	1/2
Screwed BSPT	2R	4R	6R	8R
Screwed NPT	2N	4N	6N	8N

- 5 Body Material**
 SS : 316 Stainless Steel
 B : Brass

PRESSURE-TEMPERATURE RATINGS

Temperature °F (°C)	316 SS with Fluorocarbon FKM O-ring		
	SQC 1	SQC 2	SQC 3
	Pressure Rating, coupled, psig (bar)		
70 (20)	3000 (206)	1500 (103)	750 (51.6)
400 (204)	250 (17.2)		

MAXIMUM FLOW RATE

water at 70°F(20°C)

Series	SQC 1	SQC 2	SQC 3
U.S gal/min	4	6	10
L/min	15	22	37

OVERALL LENGTH

To calculate overall length in the coupled position, subtract the insertion depth from any overall plug and body combination length

OPTION

BODY & PLUG PROTECTOR

Body & Plug Protectors guard against damage and contaminants when bodies and plug are uncoupled.

Series	Ordering Number	
	Body Protector	Plug Protector
SQC 1	SQC1 - BP	SQC1 - PP
SQC 2	SQC2 - BP	SQC2 - PP
SQC 3	SQC3 - BP	SQC3 - PP

FULL FLOW QUICK - CONNECTS

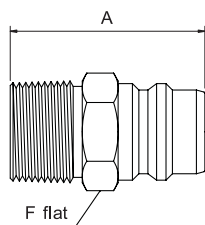
SFQC SERIES



FEATURES

- Proven ball - lock mechanism provides positive connection.
- Simple push - pull action to connect and disconnect lines - no tools required.
- Compact coupling offers full without orifice restrictions.
- O-ring is easily replaced without disassembling body.

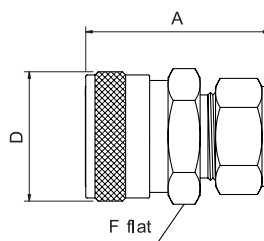
TABLE OF DIMENSIONS



Plug

Unit : mm

Ordering Number		End Connection	Cv	Min Orifice	A	F
Body Series	Part no.	Type				
SFQC2P	S 4	1/4" Superlok	2.2	4.8	45.0	14.3
	S 6	3/8" Superlok	2.8			17.5
	M 4N(R)	1/4" Male NPT			40.4	14.3
	M 6N(R)	3/8" Male NPT(PT)				17.5
	M 4G	1/4" Male PF			40.6	19.1
	F 4N(R)	1/4" Female NPT(PT)				
	F 6N(R)	3/8" Female NPT(PT)			42.4	22.2
	F 4G	1/4" Female PF			40.6	19.1
SFQC3P	S 6	3/8" Superlok	2.9	7.1	47.8	
	S 8	1/2" Superlok	13.0	10.4	50.5	22.2
	M 6N(R)	3/8" Male NPT(PT)	7.1	10.4	41.9	
	M 8N(R)	1/2" Male NPT(PT)	11.5	12.7	46.7	
	M 8G	1/2" Male PF	11.5		46.2	
	F 6N(R)	3/8" Female NPT(PT)	7.1	11.9	40.4	27.0
	F 8N(R)	1/2" Female NPT(PT)	11.5	12.7	46.2	
	F 8G	1/2" Female PF	11.5			
SFQC4P	S 12	3/4" Superlok	26.0	15.7	54.6	27.0
	M 12N(R)	3/4" Male NPT(PT)			51.6	
	F 12N(R)	3/4" Female NPT(PT)	23.6	18.3	52.8	33.3
SFQC5P	S 16	1" Superlok	45.0		62.2	34.9
	M 16N(R)	1" Male NPT(PT)			59.7	
	F 16N(R)	1" Female NPT(PT)	39.0	22.4	63.2	41.3



Body

Unit : mm

Ordering Number		End Connection	Min Orifice	A	D	F
Body Series	Part no.	Type				
SFQC2B	S 4	1/4" Superlok	4.8	45.7		
	S 6	3/8" Superlok	7.1	46.0		17.5
	M 4N(R)	1/4" Male NPT	6.4		40.0	
	M 6N(R)	3/8" Male NPT(PT)	9.4			
	M 4G	1/4" Male PF	6.1	45.7		19.1
	F 4N(R)	1/4" Female NPT(PT)		38.1		
	F 6N(R)	3/8" Female NPT(PT)	9.7	41.4		22.2
	F 4G	1/4" Female PF		38.1		19.1
SFQC3B	S 6	3/8" Superlok	7.1	55.1		
	S 8	1/2" Superlok	11.9	56.6		
	M 6N(R)	3/8" Male NPT(PT)	10.4	46.5		
	M 8N(R)	1/2" Male NPT(PT)	12.7		52.8	27.0
	M 8G	1/2" Male PF	11.9			
	F 6N(R)	3/8" Female NPT(PT)	15.0			
	F 8N(R)	1/2" Female NPT(PT)	16.0	43.9		
	F 8G	1/2" Female PF				
SFQC4B	S 12	3/4" Superlok	15.7	62.2		
	M 12N(R)	3/4" Male NPT(PT)	18.3	59.2	42.6	38.1
	F 12N(R)	3/4" Female NPT(PT)	22.4	48.0		
SFQC5B	S 16	1" Superlok		70.0		
	M 16N(R)	1" Male NPT(PT)	22.4	67.3	49.0	44.5
	F 16N(R)	1" Female NPT(PT)	26.9	53.8		

Dimensions are for rference only and are subject to change.

FULL FLOW QUICK - CONNECTS

SFQC SERIES

MATERIALS OF CONSTRUCTION

Component	Material	
	316 SS	Brass
Body	316 SS	Brass
Sleeve		
Locking ball		
Spring	304 SS	
Sanp ring		
O - ring	Viton	NBR
Plug	316 SS	Brass

PRESSURE-TEMPERATURE RATINGS

Temperature °F (°C)	316 SS with Viton O - ring				Brass with NBR O - ring			
	SFQC 2	SFQC 3	SFQC 4	SFQC 5	SFQC 2	SFQC 3	SFQC 4	SFQC 5
	Pressure Rating, coupled, psig (bar)							
70 (20)	6000 (413)		4000 (275)		4000 (275)	3000 (206)	2000 (137)	
250 (121)						100 (6.8)		
400 (204)			100 (6.8)					

INSERTION DEPTH

Series	Depth, in (mm)
SFQC2	0.78 (19.8)
SFQC3	0.81 (20.6)
SFQC4	0.90 (23.0)
SFQC5	0.94 (23.9)

OPTION

BODY & PLUG PROTECTOR

Body & Plug Protectors guard against damage and contaminants when bodies and plug are uncoupled.

Series	Ordering Number	
	Body Protector	Plug Protector
SFQC 2	SFQC2 - BP	SFQC2 - PP
SFQC 3	SFQC3 - BP	SFQC3 - PP
SFQC 4	SFQC4 - BP	SFQC4 - PP
SFQC 5	SFQC5 - BP	SFQC5 - PP

ORDERING INFORMATION

SFQC4B	- M	12N	- SS
1	2	3	4

1 Body Series Plug Series

SFQC2B	SFQC2P
SFQC3B	SFQC3P
SFQC4B	SFQC4P
SFQC5B	SFQC5P

2 End Connection

S : SUPERLOK Tube Fitting
F : Female Thread
M : Male Thread

3 End Connection Size

- Tube O.D Designation

Tube O.D (inch)	1/4	3/8	1/2	3/4	1
Designation	4	6	8	12	4
Tube O.D (mm)	6	10	12	20	25
Designation	6M	10M	12M	20M	25M

- Pipe Thread Designation

Size (inch)	1/4	3/8	1/2	3/4	1
Screwed BSPT	4R	6R	8R	12R	16R
Screwed NPT	4N	6N	8N	12N	16N
Screwed BSPP	4G	6G	8G	12G	16G

4 Body Material

SS : 316 Stainless Steel
B : Brass

Valve Series

- Key Operation Ball Valves
- Key Operation Needle Valves
- Ball Valves
- Integral Bonnet Needle Valves
- Union Bonnet Needle Valves
- Check Valves
- High Pressure Check Valves
- High Pressure Needle Valves
- Plug Valves
- Manifold Valves
- Vacuum Clamps
- Water Regulators
- Flexible Hoses
- Double Block & Bleed Valves
- Swing-Out Ball Valves
- Toggle Valves
- Bleed & Purge Valves
- Quick Connectors
- High Pressure Ball Valves
- Hydraulic Ball Valves
- Trunnion Ball Valves
- Rising Plug Valves
- Relief Valves
- Cryogenic Needle Valves
- Cryogenic Ball Valves
- Micron in-Line Filters
- Gauge Root Valves
- Hydraulic Flange and Components

Fitting Series

Tube Fittings (Compression Type)
Instrument Thread Fittings
Forged Fittings
Bite Type Tube Fittings (DIN2353)
Bite Type Tube Fittings (JIS B2351)
37 Flared Tube Fittings (SAE J514)
O-Ring Face Seal Fittings
Hose Connectors & Push-On Hose Fittings

Electric

MCPD(Molded Case Power Distributor)

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