IDK-LOK

Quick Connect

Rev. 01-02
Apr. 2025

DQVP and GJ Series

Rev. 01-01
Aug. 2023

DQVP and GJ Series

Pressure Rating up to 508 psig (35bar)

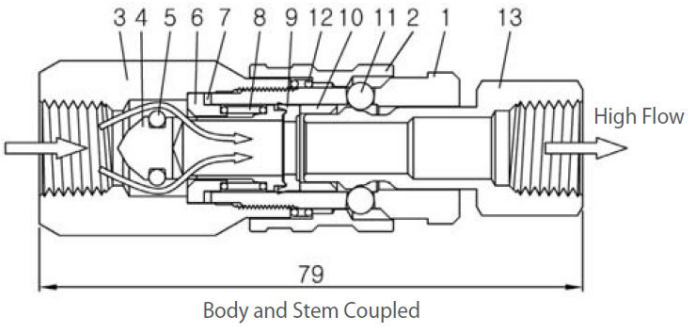
Rev.01-01
Aug.2023

DQVP Series Quick Connects

Feature

- Max. Working Pressure: 508 psig@100°F(35 bar@38°C)
- Min. Burst Pressure: 2,030 psig@100°F(140 bar@38°C)
- Cracking Pressure: 87 psig@100°F(6 bar@38°C)
- Body and connector are made of Stainless Steel 316L
- Prevent disconnection for user's carelessness by constructed auto locking system

Materials of Construction

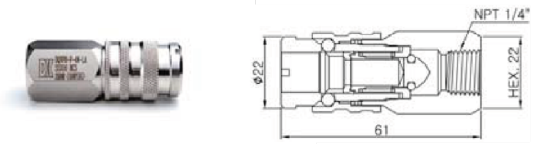


Body and Stem Coupled

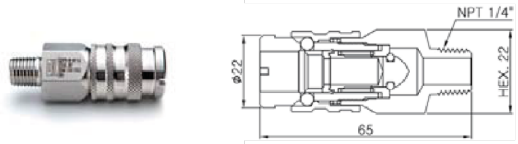
No.	Component	Material
		SS316
1	Body	ASTM A276 TYPE 316L
2	Body Sleeve	ASTM A276 TYPE 316L
3	Connector	ASTM A276 TYPE 316L
4	Valve	ASTM A276 TYPE 316L
5	O-Ring	NBR
6	Guide	ASTM A276 TYPE 316L
7	Packing	PCTFE
8	Spring	Stainless Steel 302
9	Retainer	NBR
10	Insert	ASTM A276 TYPE 316L
11	Ball	Stainless Steel
12	Sleeve Spring	Stainless Steel 302
13	Stem	ASTM A276 TYPE 316L

Ordering Information and Dimensions

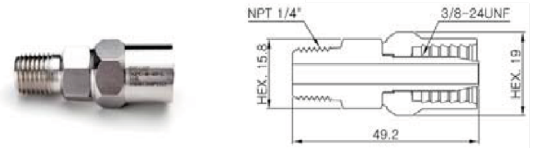
Part No.: DQVPB-F-4N-L (Body with Female NPT 1/4")



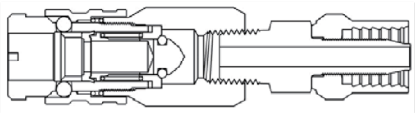
Part No.: DQVPB-M-4N-L (Body with Male NPT 1/4")



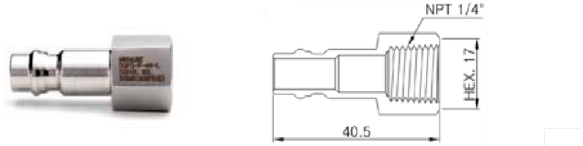
Part No.: DQPC-M-4N-L (Re-usable Connector)



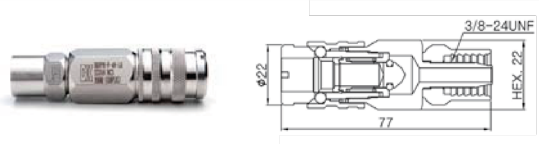
Assembly of DQVPB-F-4N-L and DQPC-M-4N-L



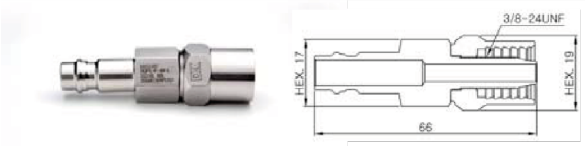
Part No.: DQPS-F-4N-L (Stem with Female NPT 1/4")



Part No.: DQVPB-PC-3U-L (Body with Hose Cap)

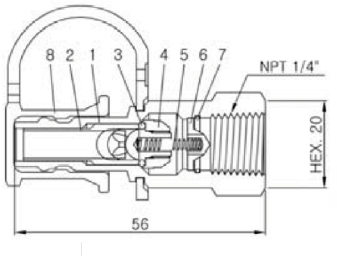


Part No.: DQPS-PC-3U-L (Stem with Hose Cap)



All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

DQVPS Series Quick Connect Stem with Valve (Part No.: DQVPS-F-4N-L)



No.	Component	Material
		SS316
1	Stem	ASTM A479/A276 TYPE 316L
2	Valve	ASTM A479/A276 TYPE 316L
3	O-Ring	NBR
4	Valve Cap Nut	ASTM A479/A276 TYPE 316L
5	Spring	Stainless Steel 302
6	Guide	ASTM A479/A276 TYPE 316L
7	Key Spring	Stainless Steel
8	Protect Cap	Option

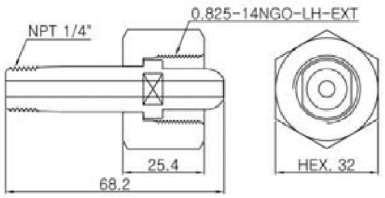
GJ Series Connections

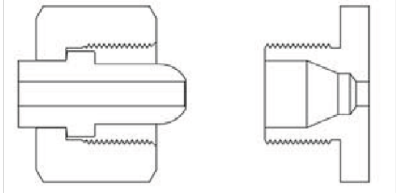
Feature

- Max. Working Pressure: 6,000 psig@100°F(414 bar@38°C)
- Material: ASTM A276 TYPE316L
- Applied to CGA standard

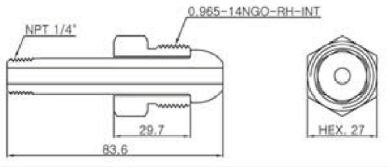
Ordering Information and Dimensions

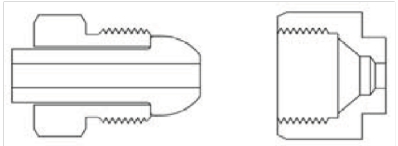
Part No.: GJ-MF-4N-CGA350-L (Round Nipple)



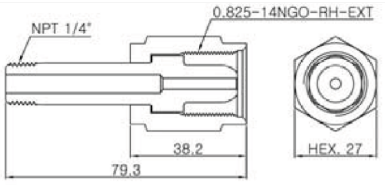


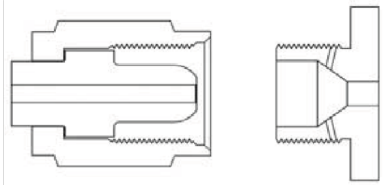
Part No.: GJ-M-4N-CGA580-L





Part No.: GJ-MF-4NCGA347-L (Long Round Nipple)





Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance.Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. Dk Tech accepts no liability for any improper selection, installation, operation or maintenance.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

The information shown in this catalog are not for design purpose, but for reference only.
The accuracy of information is not the liability of our company.

Safe Component Selection

The Selection of component for any applications or system design must be considered to ensure safe performance Component function, material compatibility, component ratings, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

DK-LOK

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IDK-LOK

DQ, DQM, DF, DQPM Series

Rev. 01-01
Aug. 2023

- No tools required to couple and uncouple.
- Bi-directional flow design.
- Versatile options of both-end shutoff (DV), single-end shutoff (SV), and both end open (DF Series).

DQ Series Quick Connectors

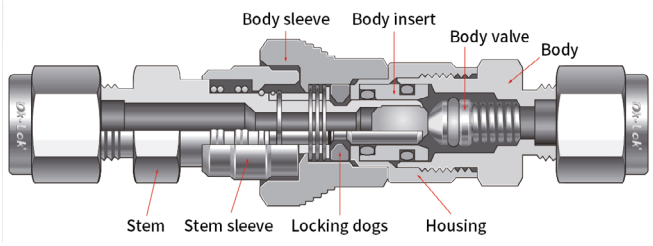
Features

- Bi-directional flow design.
- Simple to operate.
- SS316 construction with standard FKM O-ring.
- Brass construction with standard NBR O-ring.
- No tools required to couple and uncouple.
- Compact and light-weight design.

Operation

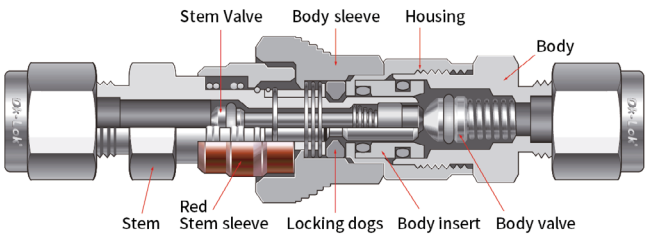
- Coupling
  1. Align the stem with the body in the identical Series.
  2. Push the stem into the body until it clicks.
- Uncoupling
  1. Pull the body sleeve toward stem.
  2. Remove stem from body.
- Do not couple or uncouple at pressures exceeding 250 psig (17.2 bar).

SV: Single valve coupled



Bi-Directional Flow
Stem has no valve

DV: Double valve coupled



Bi-Directional Flow
Stem has valve

Materials of Construction

Component	Material	
	SS316	Brass
Body, Housing Body valve Body insert Body sleeve	SS316/ ASTM A276	JIS H3250 C3604
Locking dogs	Xylan™-coated SS316 powered	
Stem Stem sleeve Stem valve	SS316/ ASTM A276	JIS H3250 C3604
O-rings	FKM	NBR
Springs	SS302/ASTM A313	
Lubricants	Silicon and TFE based	

Wetted parts indicated in blue.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Pressure-Temperature Ratings

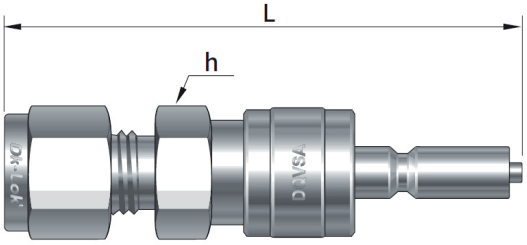
DQ Stem and Body	SS316 FKM O-rings			Brass NBR O-rings		
	DQA	DQB	DQC	DQA	DQB	DQC
	psi (bar) @ °F (°C)					
Coupled	3000(206) @ 70 (21)	1500(103) @ 70 (21)	750(51.6) @ 70 (21)	2000(137) @ 70 (21)	1000(68.9) @ 70 (21)	500(34.4) @ 70 (21)
	250(17.2) @ 400 (204)			250(17.2) @ 250 (121)		
Uncoupled	250(17.2) @ 70 (21)					
When coupling and uncoupling	250(17.2) @ 70 (21)					

Spillage and Air Inclusion

- Spillage is the volume of system fluid that escapes while a quick connector is uncoupled.
- Air inclusion is the volume of air trapped that comes in while a quick connector is coupled.

DQ Series	Spillage	Air Inclusion
DQ A	0.3	0.3
DQ B	1.0	1.0
DQ C	3.0	3.0

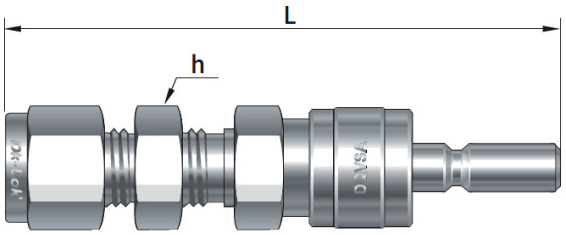
Ordering Information and Dimensions Stems



DV : Stem has a valve
SV : Stem has no valve

Series	End Connection	Basic Ordering Number		Cv			L mm(in.)		h Hex. in.
		SV	DV	SV	DV	Full Flow	SV	DV	
DQA	1/8 in. DK-Lok	DQSA-D-2T-	DQVSA-D-2T-	0.08	0.08	0.08	58.9 (2.32)	70.4 (2.77)	5/8
	1/4 in. DK-Lok	DQSA-D-4T-	DQVSA-D-4T-	0.3	0.2	0.4	59.9 (2.36)	61.5 (2.42)	5/8
	6 mm DK-Lok	DQSA-D-6M-	DQVSA-D-6M-	0.3	0.2	0.4	59.9 (2.36)	61.5 (2.42)	5/8
	1/8 in. Male NPT	DQSA-M-2N-	DQVSA-M-2N-	0.3	0.2	0.4	52.6 (2.07)	54.1 (2.13)	5/8
	1/4 in. Male NPT	DQSA-M-4N-	DQVSA-M-4N-	0.3	0.2	0.4	56.4 (2.22)	57.9 (2.28)	5/8
	1/8 in. Female NPT	DQSA-F-2N-	DQVSA-F-2N-	0.3	0.2	0.4	51.1 (2.01)	52.6 (2.07)	5/8
	1/4 in. Female NPT	DQSA-F-4N-	DQVSA-F-4N-	0.3	0.2	0.4	57.4 (2.26)	58.9 (2.32)	3/4
DQB	3/8 in. DK-Lok	DQSB-D-6T-	DQVSB-D-6T-	1.0	0.5	1.5	64.0 (2.52)	67.1 (2.64)	3/4
	10 mm DK-Lok	DQSB-D-10M-	DQVSB-D-10M-	1.0	0.5	1.5	67.3 (2.65)	70.4 (2.77)	3/4
	1/4 in. Male NPT	DQSB-M-4N-	DQVSB-M-4N-	0.9	0.5	1.5	58.9 (2.32)	61.9 (2.44)	3/4
	3/8 in. Male NPT	DQSB-M-6N-	DQVSB-M-6N-	0.8	0.5	1.6	59.7 (2.35)	62.7 (2.47)	3/4
	1/4 in. Female NPT	DQSB-F-4N-	DQVSB-F-4N-	0.9	0.5	1.5	59.7 (2.35)	62.7 (2.47)	3/4
	3/8 in. Female NPT	DQSB-F-6N-	DQVSB-F-6N-	0.8	0.5	1.6	59.7 (2.35)	62.7 (2.47)	7/8
DQC	1/2 in. DK-Lok	DQSC-D-8T-	DQVSC-D-8T-	2.4	1.5	3.3	75.2 (2.96)	80.3 (3.16)	15/16
	12 mm DK-Lok	DQSC-D-12M-	DQVSC-D-12M-	2.4	1.5	3.3	75.2 (2.96)	60.3 (3.16)	15/16
	1/2 in. Male NPT	DQSC-M-8N-	DQVSC-M-8N-	2.0	1.3	3.1	72.1 (2.84)	77.2 (3.04)	15/16
	1/2 in. Female NPT	DQSC-F-8N-	DQVSC-F-8N-	2.0	1.3	3.1	71.6 (2.82)	76.7 (3.02)	1 1/16

Stems-Bulkhead



DV : Stem has a valve
SV : Stem has no valve

Series	End Connection	Basic Ordering Number		Panel Thickness Max. mm (in.)	Panel Hole Dia. Min. mm (in.)	L mm (in.)		h Hex. in.
		SV	DV			SV	DV	
DQA	1/4 in. DK-Lok	DQSA-BH-D-4T-	DQVSA-BH-D-4T-	6.4 (0.25)	11.9 (15/32)	69.6 (2.74)	71.1 (2.80)	5/8
	6 mm DK-Lok	DQSA-BH-D-6M-	DQVSA-BH-D-6M-	6.4 (0.25)	11.5 (29/64)	69.6 (2.74)	71.1 (2.80)	16 mm
DQB	3/8 in. DK-Lok	DQSB-BH-D-6T-	DQVSB-BH-D-6T-	6.9 (0.27)	15.1 (19/32)	74.2 (2.92)	76.0 (3.07)	3/4
	10 mm DK-Lok	DQSB-BH-D-10M-	DQVSB-BH-D-10M-	6.9 (0.27)	16.7 (21/32)	77.7 (3.06)	78.7 (3.10)	22 mm
DQC	1/2 in. DK-Lok	DQSC-BH-D-8T-	DQVSC-BH-D-8T-	6.6 (0.26)	19.8 (25/32)	87.1 (3.43)	92.2 (3.63)	15/16
	12 mm DK-Lok	DQSC-BH-D-12M-	DQVSC-BH-D-12M-	6.6 (0.26)	19.4 (49/64)	87.1 (3.43)	92.2 (3.63)	24 mm

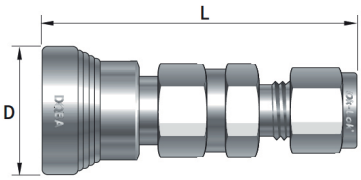
Insertion depth and Overall length

To have an overall length in coupled position, subtract the insertion depth from the combination length of the stem and the body.

Insertion Depth

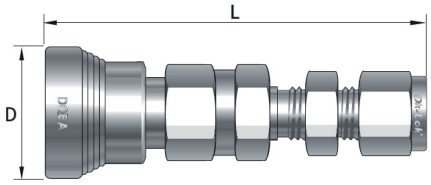
DQ Series	Depth mm (in.)	
	SV	DV
DQA	27.7 (1.09)	29.2 (1.15)
DQB	30.0 (1.18)	33.0 (1.30)
DQC	37.6 (1.48)	42.7 (1.68)

Bodies



Series	End Connection	Basic Ordering Number	L mm (in.)	D mm (in.)
DQA	1/8 in. DK-Lok	DQBA-D-2T-	57.4 (2.26)	23.1 (0.91)
	1/4 in. DK-Lok	DQBA-D-4T-	56.4 (2.30)	23.1 (0.91)
	6 mm DK-Lok	DQBA-D-6M-	58.4 (2.30)	23.1 (0.91)
	1/8 in. Male NPT	DQBA-M-2N-	51.1 (2.01)	23.1 (0.91)
	1/4 in. Male NPT	DQBA-M-4N-	54.9 (2.16)	23.1 (0.91)
	1/4 in. Male ISO	DQBA-M-4R-	54.9 (2.16)	23.1 (0.91)
	1/8 in. Female NPT	DQBA-F-2N-	54.9 (2.16)	23.1 (0.91)
	1/4 in. Female NPT	DQBA-F-4N-	61.5 (2.42)	23.1 (0.91)
	1/4 in. Female ISO	DQBA-F-4R-	61.5 (2.42)	23.1 (0.91)
DQB	3/8 in. DK-Lok	DQBB-D-6T-	65.5 (2.58)	26.2 (1.03)
	10 mm DK-Lok	DQBB-D-10M-	68.1 (2.68)	26.2 (1.03)
	1/4 in. Male NPT	DQBB-M-4N-	60.5 (2.38)	26.2 (1.03)
	3/8 in. Male NPT	DQBB-M-6N-	60.5 (2.38)	26.2 (1.03)
	3/8 in. Male ISO	DQBB-M-6R-	60.5 (2.38)	26.2 (1.03)
	1/4 in. Female NPT	DQBB-F-4N-	64.5 (2.54)	26.2 (1.03)
	3/8 in. Female NPT	DQBB-F-6N-	65.3 (2.57)	26.2 (1.03)
	3/8 in. Female ISO	DQBB-F-6R-	65.3 (2.57)	26.2 (1.03)
DQC	1/2 in. DK-Lok	DQBC-D-8T-	78.5 (3.09)	30.7 (1.21)
	12 mm DK-Lok	DQBC-D-12M-	78.5 (3.09)	30.7 (1.21)
	1/2 in. Male NPT	DQBC-M-8N-	75.4 (2.97)	30.7 (1.21)
	1/2 in. Male ISO	DQBC-M-8R-	75.4 (2.97)	30.7 (1.21)
	1/2 in. Female NPT	DQBC-F-8N-	81.8 (3.22)	30.7 (1.21)
	1/2 in. Female ISO	DQBC-F-8R-	81.8 (3.22)	30.7 (1.21)

Bodies-Bulkhead



Series	End Connection	Basic Ordering Number	Panel Thickness Max.	Panel Hole Dia. Min.	L	D
			mm (in.)			
DQA	1/4 in. DK-Lok	DQBA-BH-D-4T-	6.4 (0.25)	11.9 (15/32)	67.8 (2.67)	23.1 (0.91)
	6 mm DK-Lok	DQBA-BH-D-6M-	6.4 (0.25)	11.9 (15/32)	67.8 (2.67)	23.1 (0.91)
DQB	3/8 in. DK-Lok	DQBB-BH-D-6T-	6.9 (0.27)	15.1 (19/32)	75.7 (2.98)	26.2 (1.03)
	10 mm DK-Lok	DQBB-BH-D-10M-	6.9 (0.27)	16.7 (21/32)	75.9 (2.99)	26.2 (1.03)
DQC	1/2 in. DK-Lok	DQBC-BH-D-8T-	6.6 (0.26)	19.8 (25/32)	90.4 (3.56)	30.7 (1.21)
	12 mm DK-Lok	DQBC-BH-D-12M-	6.6 (0.26)	19.4 (49/64)	90.4 (3.56)	30.7 (1.21)

How to Order

Add "SA" for SS316 or "BA" for Brass as a suffix to the Basic Ordering Number.
Examples : DQSA-D-4T-SA, DQBA-D-4T-BA.

O-ring Designators

Nil : Standard FKM for SS316 quick connector
Nil : Standard NBR for Brass quick connector
FKM : VT
NBR : BN
FFKM : KZ
EPDM : EP

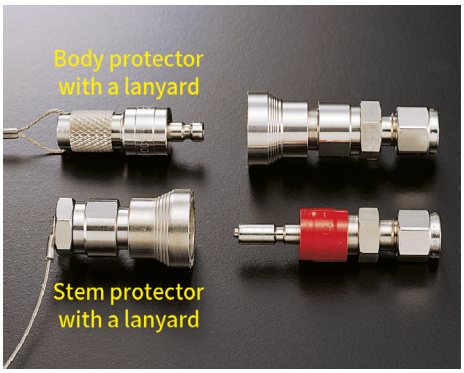
How to Order an Optional O-ring Connector
Insert O-ring designator to the basic ordering number.
Examples: DQVSA-D-2T-KZ-SA, DQVSA-D-2T-EP-BA

How to Order a Full Flow DQ Series Connector

A full flow DQ series consists of a SV stem and a full flow body.

To order a full flow body, select an applicable Basic Ordering Number, add "FF" and a material designator.
Examples : DQBA-D-4T-FF-SA, DQBB-D-6T-FF-SA.

Options



DQ Protectors

Body and Stem Protector are available to protect body and stem from damage and contamination while they are uncoupled.

Field Assembly Protector Ordering Number

Stem Protector	Body Protector
DQSA-CP-	DQBA-PG-
DQSB-CP-	DQBB-PG-
DQSC-CP-	DQBC-PG-

To complete ordering number, add a material designator "SA" for SS316, "BA" for Brass as a suffix to the protector ordering number.
Examples : DQSA-CP-SA, DQBA-PG-BA
Note : Stem Protector is applicable to both SV stem and DV stem.

Pressure Retaining Protectors

DQ Protectors are not pressure retaining devices.
To order the pressure retaining protector, add "P" as a suffix to the protector ordering number.
Examples : DQSA-CPP-, DQBA-PGP-.

Materials of Construction

Protector: Stainless steel or Brass
Lanyard: Stainless steel
Lanyard clamp: Stainless steel

How to order FACTORY ASSEMBLED PROTECTOR on to DQ stem and body.

Select an applicable STEM or BODY ordering number, and insert“CP” or“PG”in the ordering number.
Examples : DQVSC-D-12M-CP-SA, DQBC-D-12M-PG-SA.

DQ color coded “Keyed” quick connectors

Features

- DQ Keyed quick connectors prevent intermixing of different keys mechanically as well as allow visual identification by color coding.
- Eight (8) different keys on each DQ series are available with its own Key number.
- DQ keys are useful to control multi-fluid or multi-pressure systems.

Operation

- Select stem and body keyed in the same DQ series.
- Coupling : Align stem with body. Push stem into body until it clicks.
- Uncoupling : Pull body sleeve toward stem. Remove stem.

DQ Key Ordering Numbers and Sleeve Outside Diameter

Key Number	Key Color	DQA				DQB				DQC			
		Body Sleeve		Stem Sleeve		Body Sleeve		Stem Sleeve		Body Sleeve		Stem Sleeve	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
K1	Black	24.5	0.96	20.9	0.82	28.7	1.13	25.1	0.99	32.0	1.26	27.9	1.10
K2	Orange	25.0	0.99	21.6	0.85	29.5	1.16	25.8	1.02	32.8	1.29	28.9	1.14
K3	Green	26.0	1.02	22.4	0.88	30.2	1.19	26.6	1.05	33.6	1.32	29.7	1.17
K4	Yellow	26.8	1.05	23.2	0.91	31.0	1.22	27.4	1.08	34.3	1.35	30.4	1.20
K5	Blue	27.5	1.08	23.9	0.94	31.5	1.24	28.1	1.11	35.1	1.38	31.2	1.23
K6	White	28.3	1.11	24.7	0.97	32.5	1.28	28.9	1.14	35.8	1.41	32.0	1.26
K7	Purple	29.1	1.14	25.4	1.00	33.3	1.31	29.7	1.17	36.6	1.44	32.7	1.29
K8	Brown	29.8	1.17	26.2	1.03	34.0	1.34	30.4	1.20	37.4	1.47	33.5	1.32
Standard DQ Body Sleeve Dia.		23.1	0.91			26.2	1.03			30.7	1.21		

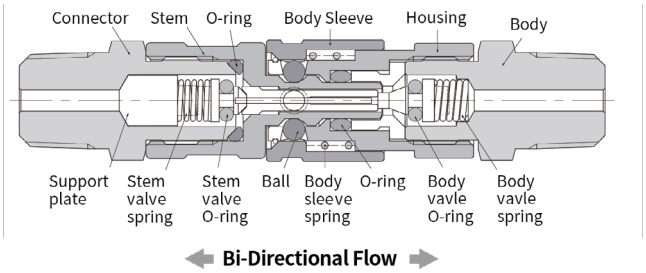
How to Order

Add the Key number as a suffix to the DQ series Ordering Number.
Examples : DQSB-D-6T-**K1**-SA.

DQM Series Miniature Quick Connectors

Features

- Bi-directional flow design.
- Miniature design for max. 4000 psi working pressure.
- Stainless steel and brass construction.
- **Operation** : To couple, to uncouple, pull body sleeve toward body.



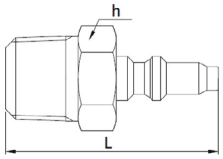
Materials of Construction

Component	Material	
	Stainless	Brass
Body, Housing, Stem, Connector, Body sleeve	SS316/ ASTM A276	JIS H3250 C3604
Support plate, Left & Right fin	Stainless Steel	
Body valve, Stem valve	SS316/ ASTM A276	
Springs	SS302/ASTM A313	
O-rings	FKM	NBR
Locking ball	SS316	
Lubricants	Silicon and TFE based	

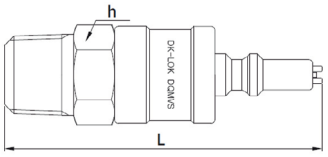
Wetted parts indicated in blue.

Ordering Information and Dimensions

Stems



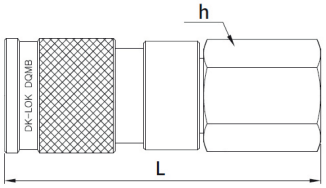
SV : Stem has no valve



DV : Stem has a valve

End Connection	Basic Ordering Number		Cv			L mm(in.)		h Hex. in.
	SV	DV	SV	DV	Full Flow	SV	DV	
1/16 in. DK-Lok	DQMS-D-1T-	DQMVS-D-1T-	0.06	0.05	0.06	30.0 (1.18)	44.7 (1.76)	7/16
1/16 in. Male NPT	DQMS-M-1N-	DQMVS-M-1N-	0.06	0.05	0.06	26.2 (1.03)	40.9 (1.61)	7/16
1/16 in. Female NPT	DQMS-F-1N-	DQMVS-F-1N-	0.06	0.05	0.06	26.2 (1.03)	40.9 (1.61)	7/16
1/8 in. DK-Lok	DQMS-D-2T-	DQMVS-D-2T-	0.06	0.05	0.06	32.8 (1.29)	47.5 (1.87)	7/16
1/8 in. Male NPT	DQMS-M-2N-	DQMVS-M-2N-	0.06	0.05	0.06	26.2 (1.03)	40.9 (1.61)	7/16
1/8 in. Female NPT	DQMS-F-2N-	DQMVS-F-2N-	0.06	0.05	0.06	26.2 (1.03)	46.0 (1.81)	9/16

Body



Basic Ordering Number	End Connection	L mm(in.)	h Hex. in.
DQMB-D-1T-	1/16 in. DK-Lok	38.1 (1.50)	7/16
DQMB-D-2T-	1/8 in. DK-Lok	43.2 (1.70)	7/16
DQMB-M-1N-	1/16 in. Male NPT	36.1 (1.42)	7/16
DQMB-M-2N-	1/8 in. Male NPT	36.6 (1.44)	7/16
DQMB-F-1N-	1/16 in. Female NPT	36.3 (1.43)	7/16
DQMB-F-2N-	1/8 in. Female NPT	41.1 (1.62)	9/16
DQMB-BH*-D-2T-	1/8 in. DK-Lok	53.1 (2.09)	7/16

* BH : Bulkhead

How to Order a Full Flow DQM Quick Connector

A full flow DQM series consists of a SV stem a full flow body.

To order a full flow body, select an applicable basic ordering number, add "FF" and a material designator.

i.e., DQMB-D-2T-**FF**-SA

Pressure- Temperature Ratings

DQM Stem and Body	SS316 FKM O-rings	Brass NBR O-rings
	Pressure Rating psi (bar) @ °F (°C)	
Coupled	4000(275) @ 70 (21)	2000(137) @ 70 (21)
	100(6.8) @ 400 (204)	100(6.8) @ 250 (121)
Uncoupled	100(6.8) @ 70 (21)	
When coupling & uncoupling	100(6.8) @ 70 (21)	

Spillage and Air Inclusion 0.1㎤

Insertion Depth
SV : 11.9 mm (0.47 in.)
DV : 13.5 mm (0.53 in.)

Operation : To couple, to uncouple, pull body sleeve.

Insertion depth and Overall length

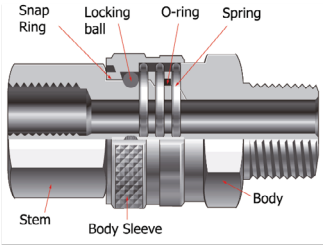
To have an overall length in coupled position, subtract the insertion depth from the combination length of the stem and the body.

How to Order

Add "**SA**" for SS316 or "**BA**" for brass as a suffix to the basic ordering number. Example : DQMS-D-1T-**SA**.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

DF Series Full Flow Quick Connectors



Features

- Bi-directional flow design.
- Applicable to maximum flow.
- Lowest pressure drop.
- No tools required to connect & disconnect.

Materials of Construction

Component	Materials	
	SS316	Brass
Body, Stem	SS316 / ASTM A276	JIS H3250 C3604
Sleeve		
Snap Ring	SS316	SS316
Spring, Locking ball	Stainless Steel	
O-ring	FKM	NBR
Lubricant	Silicon-based and PTFE based lubricants	

Wetted parts and lubrication are indicated in blue.

Max. Pressure @ 70°F (21°C)

DF Series	SS316	Brass
	psig (bar)	psig (bar)
DFA	6000 (413)	4000 (275)
DFB		3000 (206)
DFC	4000 (275)	2000 (137)
DFD		

Cleaning and Packaging

Every connector is cleaned, and packed in a plastic sealing bag to keep them from dust, and then boxed for protection from damage during transportation and storage.

Max. Temperature Rating

DF Materials	O-ring Material	Max. Temp. Rating	Pressure Rating @ Max. Temp.
SS316	FKM	400 F (204°C)	100 psig (6.8 bar)
Brass	NBR	250 F (121°C)	100 psig (6.8 bar)

Operation

Coupling

1. Align stem with body.
2. Pull the body sleeve back.
3. Insert stem into body until it bottoms.
4. Return body sleeve to its original position.

Uncoupling

1. Pull the body sleeve back completely.
2. Remove stem from body.

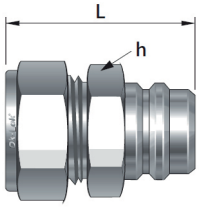
Caution : Do not uncouple under pressure.

Note :
Couple the identical Series of stem and body.

Example : Any DFBA series body will fit any DFSA series stem.

Ordering Information and Dimensions

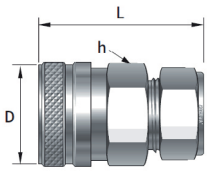
Stems



Basic Ordering Number		End Connection	Cv	Orifice Min.	L	h
				mm (in.)		in.
DFSA-	D-4T-	1/4 in. DK-Lok	2.2	4.8 (0.19)	45.0 (1.77)	9/16
	D-6T-	3/8 in. DK-Lok	2.8	6.1(0.24)	45.0 (1.77)	11/16
	D-6M-	6 mm DK-Lok	2.2	4.8(0.19)	45.0 (1.77)	9/16
	M-4N-	1/4 in. Male NPT	1.7	6.1(0.24)	40.4 (1.59)	9/16
	M-6N-	3/8 in. Male NPT	1.7	6.1(0.24)	40.4 (1.59)	11/16
	F-4N-	1/4 in. Female NPT	1.7	6.1(0.24)	40.6 (1.60)	3/4
	F-6N-	3/8 in. Female NPT	1.7	6.1(0.24)	42.4 (1.67)	7/8
DFSB-	D-6T-	3/8 in. DK-Lok	2.9	7.1 (0.28)	47.8 (1.88)	7/8
	D-8T-	1/2 in. DK-Lok	13.0	10.4 (0.41)	50.5 (1.99)	7/8
	M-6N-	3/8 in. Male NPT	7.1	10.4(0.41)	40.4 (1.59)	7/8
	M-8N-	1/2 in. Male NPT	11.5	12.7(0.50)	46.7 (1.84)	7/8
	F-6N-	3/8 in. Female NPT	7.1	11.9(0.47)	40.4 (1.59)	1 1/16
	F-8N-	1/2 in. Female NPT	11.5	12.7(0.50)	46.2 (1.82)	1 1/16
DFSC-	D-12T-	3/4 in. DK-Lok	26.0	15.7(0.62)	54.6 (2.15)	1 1/16
	M-12N-	3/4 in. Male NPT	23.6	18.3(0.72)	51.6 (2.03)	1 1/16
	F-12N-	3/4 in. Female NPT	23.6	18.3(0.72)	52.8 (2.08)	1 5/16
DFSD-	D-16T-	1 in. DK-Lok	45.0	22.4(0.88)	62.2 (2.45)	1 3/8
	M-16N-	1 in. Male NPT	39.0	22.4(0.88)	59.7 (2.35)	1 3/8
	F-16N-	1 in. Female NPT	39.0	22.4(0.88)	63.2 (2.49)	1 5/8

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Bodies



Basic Ordering Number		End Connection	Orifice Min.	L	D	h
			mm (in.)			in.
DFBA-	D-4T-	1/4 in. DK-Lok	4.8 (0.19)	45.7 (1.80)	22.1 (0.87)	1 1/16
	D-6T-	3/8 in. DK-Lok	7.1 (0.28)	46.0 (1.81)	22.1 (0.87)	1 1/16
	D-6M-	6 mm DK-Lok	4.8 (0.19)	45.7 (1.80)	22.1 (0.87)	11/16
	M-4N-	1/4 in. Male NPT	6.4 (0.25)	39.9 (1.57)	22.1 (0.87)	11/16
	M-6N-	3/8 in. Male NPT	9.4 (0.37)	39.9 (1.57)	22.1 (0.87)	11/16
	F-4N-	1/4 in. Female NPT	9.7 (0.38)	38.1 (1.50)	22.1 (0.87)	3/4
	F-6N-	3/8 in. Female NPT	9.7 (0.38)	41.4 (1.63)	22.1 (0.87)	7/8
DFBB-	D-6T-	3/8 in. DK-Lok	7.1 (0.28)	55.1 (2.17)	33.0 (1.30)	1 1/16
	D-8T-	1/2 in. DK-Lok	11.9 (0.47)	56.6 (2.23)	33.0 (1.30)	1 1/16
	M-6N-	3/8 in. Male NPT	10.4 (0.41)	46.5 (1.83)	33.0 (1.30)	1 1/16
	M-8N-	1/2 in. Male NPT	12.7 (0.50)	52.8 (2.08)	33.0 (1.30)	1 1/16
	F-6N-	3/8 in. Female NPT	15.0 (0.59)	43.9 (1.73)	33.0 (1.30)	1 1/16
	F-8N-	1/2 in. Female NPT	16.0 (0.63)	43.9 (1.73)	33.0 (1.30)	1 1/16
DFBC-	D-12T-	3/4 in. DK-Lok	15.7 (0.62)	62.2 (2.45)	42.2 (1.66)	1 1/2
	M-12N-	3/4 in. Male NPT	18.3 (0.72)	59.2 (2.33)	42.2 (1.66)	1 1/2
	F-12N-	3/4 in. Female NPT	22.4 (0.88)	48.0 (1.89)	42.2 (1.66)	1 1/2
DFBD-	D-16T-	1 in. DK-Lok	22.4 (0.88)	69.9 (2.75)	47.8 (1.88)	1 11/16
	M-16N-	1 in. Male NPT	22.4 (0.88)	67.3 (2.65)	47.8 (1.88)	1 11/16
	F-16N-	1 in. Female NPT	26.9 (1.06)	53.8 (2.12)	47.8 (1.88)	1 11/16

DF Protectors

Body and Stem Protector are available to protect body and stem from damage and contamination while they are uncoupled.

Field Assembly Protector Ordering Number

Stem Protector	Body Protector
DFSA-CP-	DFBA-PG-
DFSB-CP-	DFBB-PG-
DFSC-CP-	DFBC-PG-
DFSD-CP-	DFBD-PG-

To complete ordering number, add a material designator "**SA**" for SS316, "**BA**" for Brass as a suffix to the protector ordering number.
Examples : DFSA-CP-**SA**, DFBA-PG-**BA**.

Insertion Depth

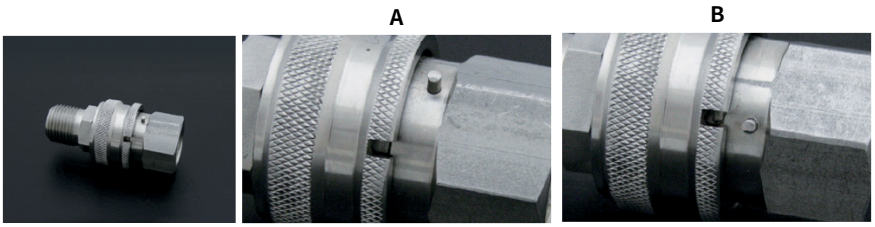
Unit : mm (in.)

DF Series	Depth
DFA	19.8 (0.78)
DFB	20.6 (0.81)
DFC	22.9 (0.90)
DFD	23.9 (0.94)

How to order FACTORY ASSEMBLED PROTECTOR on to DF stem and body.

Select an applicable STEM or BODY ordering number, and insert“CP” or“PG” in the ordering number.
Examples : DFSA-D-4T-**CP**-SA, DFBA-D-4T-**PG**-SA

Safety Pin Option on DF series



A. A safety pin on body with a holding groove on sleeve prevents accidental uncoupling.
B. To Uncouple, rotate body sleeve for the pin to fit into the groove and pull the body sleeve back.

To order Safety Pin DF body, insert "P" in the ordering number. Example: DFBC-D-12T-**P**-SA

All dimensions shown are for reference only and subject to change. Dimensions with DK-Lok Tube Fitting are finger-tight position.
We reserve the right to change specification stated in this catalog for our continuing program of product improvement.

DQPM Series PTFE Sealed Quick Connect

Features

- Bi-directional flow design.
- Simple to operate.
- No tools required to couple and uncouple.
- Keyed option is available.
- Max working pressure : 4,500psi.
- Stainless steel and Monel 400 construction.

Operation

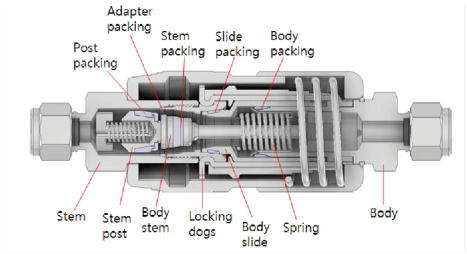
- Coupling
  1. Align the stem with the body in the identical Series.
  2. Push the stem into the body until it clicks.
- Uncoupling
  1. Pull the body sleeve toward stem.
  2. Remove stem from body.
- Do not couple or uncouple at pressures exceeding 250 psig (17.2 bar).

Note

Couple the identical Series of stem and body.
Example : Any DQPM8 body will fit any DQPM8D(DV) or DQPM8S(SV) stem.

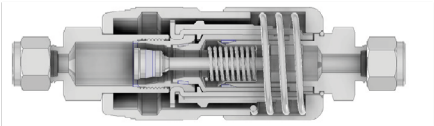
Materials of Construction

DV : Double valve coupled



Bi-Directional Flow
Stem has a valve

SV : Single valve coupled



Directional Flow
Stem has no valve

Component	Material	
	SS316	Alloy 400 / Monel
Valve body	SS316/ Xylan Coated	Alloy 400 / Xylan Coated
Stem body, Adapter Post, Post cap Body cap1, Body cap2 Body Insert Slide, Body stem Body stem cap	SS316 / ASTM A276	Alloy 400 / ASTM B164
Stem Spring guide1 Stem Spring guide2	SS316	Alloy 400
Body Locking dogs Body Locking bracket Slide spring guide1 Slide spring guide2	SS304	Alloy 400
Adapter packing Body packing Body backup packing Slide packing	TFM 1600	
Post packing Stem packing	PTFE	
Slide spring Stem spring Body cap spring	SS316 or Alloy X-750	Alloy X-750
Stem post ring Body cap ring Body Stem ring	SS304	Alloy X-750

Wetted parts indicated in blue.

Pressure-Temperature Ratings

DQPM Stem and Body	SS316			Alloy 400
	DQPM2	DQPM4	DQPM8	DQPM2
	psi (bar) @ °F (°C)			
Coupled	4500 (310) @ 0 ~ 194 (-17 ~ 90)	3200 (220) @ 0 ~ 194 (-17 ~ 90)	3200 (220) @ 0 ~ 194 (-17 ~ 90)	3200 (220) @ 0 ~ 120 (-17 ~ 48)
Uncoupled	1000 (68.9) @ 0 ~ 194 (-17 ~ 90)			1000 (68.9) @ 0 ~ 120 (-17 ~ 48)
When coupling and uncoupling	250(17.2) @ 70 (20)	100(6.8) @ 70 (20)	50(3.4) @ 70 (20)	250(17.2) @ 70 (20)

Spillage and Air Inclusion (DV Only)

unit : cm^3

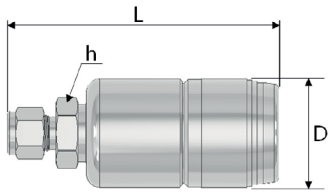
Series	Spillage	Air Inclusion
DQPM2	0.1	0.1
DQPM4	0.2	0.4
DQPM8	1.0	2.0

- Spillage is the volume of system fluid that escapes while a quick connect is uncoupled.
- Air inclusion is the volume of air trapped that comes in while a quick connect is coupled.

Ordering Information and Dimensions Bodies

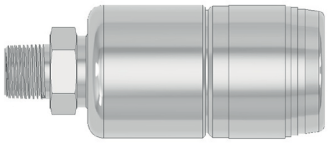
Bodies

DK-Lok Tube Fitting

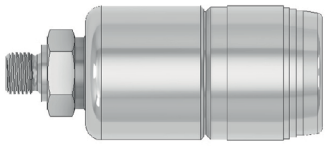


Series	End Connection	Basic Ordering Number	D mm (in.)	L mm (in.)	h Hex. In
DK-Lok Tube Fitting					
DQPM2	1/4 in. DK-Lok	DQPM2-D4T	28.4 (1.12)	80.3 (3.16)	5/8
	3/8 in. DK-Lok	DQPM2-D6T	28.4 (1.12)	82.6 (3.25)	11/16
	6 mm DK-Lok	DQPM2-D6M	28.4 (1.12)	80.3 (3.16)	15mm
	8 mm DK-Lok	DQPM2-D8M	28.4 (1.12)	80.3 (3.16)	15mm
DQPM4	1/4 in. DK-Lok	DQPM4-D4T	44.0 (1.73)	104.0 (4.08)	15/16
	3/8 in. DK-Lok	DQPM4-D6T	44.0 (1.73)	104.0 (4.08)	15/16
	6 mm DK-Lok	DQPM4-D6M	44.0 (1.73)	104.0 (4.08)	24mm
	10 mm DK-Lok	DQPM4-D10M	44.0 (1.73)	104.0 (4.08)	24mm
DQPM8	1/2 in. DK-Lok	DQPM8-D8T	50.8 (4.30)	109.0 (4.30)	1-1/4
	3/4 in. DK-Lok	DQPM8-D12T	50.8 (4.30)	109.0 (4.30)	1-1/4
	1 in. DK-Lok	DQPM8-D16t	50.8 (4.30)	116.0 (4.58)	1-3/8
	12 mm DK-Lok	DQPM8-D12M	50.8 (4.30)	109.0 (4.30)	32mm

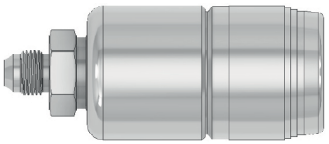
Male NPT / BSPT



Male PSPP



Male JIC 37°



Series	End Connection	Basic Ordering Number	D mm (in.)	L mm (in.)	h Hex. In
Male NPT					
DQPM2	1/4 in. Male NPT	DQPM2-M4N	28.4 (1.12)	76.7 (3.02)	5/8
	3/8 in. Male NPT	DQPM2-M6N	28.4 (1.12)	78.0 (3.07)	3/4
DQPM4	1/4 in. Male NPT	DQPM4-M4N	44.0 (1.73)	98.9 (3.89)	15/16
	3/8 in. Male NPT	DQPM4-M6N	44.0 (1.73)	98.9 (3.89)	15/16
DQPM8	1/2 in. Male NPT	DQPM8-M8N	50.8 (4.30)	109.0 (4.30)	1-1/4
	3/4 in. Male NPT	DQPM8-M12N	50.8 (4.30)	109.0 (4.30)	1-1/4
	1 in. Male NPT	DQPM8-M16N	50.8 (4.30)	116.0 (4.58)	1-3/8
ISO Tapered Male BSPT					
DQPM2	1/4 in. Male PT	DQPM2-M4R	28.4 (1.12)	76.7 (3.02)	5/8
	3/8 in. Male PT	DQPM2-M6R	28.4 (1.12)	78.0 (3.07)	3/4
DQPM4	1/4 in. Male PT	DQPM4-M4R	44.0 (1.73)	98.9 (3.89)	15/16
	3/8 in. Male PT	DQPM4-M6R	44.0 (1.73)	98.9 (3.89)	15/16
DQPM8	1/2 in. Male PT	DQPM8-M8R	50.8 (4.30)	109.0 (4.30)	1-1/4
	3/4 in. Male PT	DQPM8-M12R	50.8 (4.30)	109.0 (4.30)	1-1/4
	1 in. Male PT	DQPM8-M16R	50.8 (4.30)	116.0 (4.58)	1-3/8
ISO Parallel Male BSPP					
DQPM2	1/4 in. Male PF	DQPM2-M4G	28.4 (1.12)	76.7 (3.02)	3/4
DQPM4	1/4 in. Male PF	DQPM4-M4G	44.0 (1.73)	98.9 (3.89)	15/16
DQPM8	1/2 in. Male PF	DQPM8-M8G	50.8 (4.30)	109.0 (4.30)	1-1/4
JIC 37° Flare					
DQPM4	1/4 in. AN Flare	DQPM4-M4A	44.0 (1.73)	98.9 (3.89)	15/16
DQPM8	1/2 in. AN Flare	DQPM8-M8A	50.8 (4.30)	109.0 (4.30)	1-1/4

Insertion depth and Overall length

To have an overall length in coupled position, subtract the insertion depth from the combination length of the stem and the body.

Insertion Depth

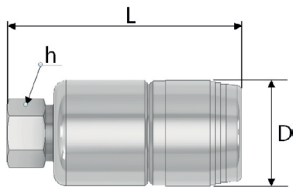
DQPM Series	Depth mm (in.)
DQPM2	0.9(23.5)
DQPM4	1.1(27.2)
DQPM8	1.2(30.6)

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Ordering Information and Dimensions Bodies

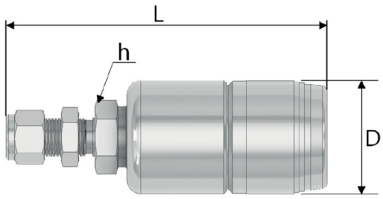
Bodies

Female NPT / BSPT/ BSPP



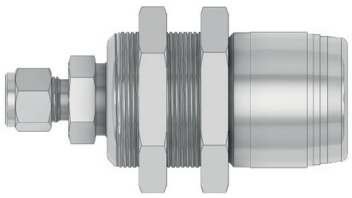
Series	End Connection	Basic Ordering Number	D mm (in.)	L mm (in.)	h Hex. In
		Female NPT			
DQPM2	1/8 in. Female NPT	DQPM2-F2N	28.4 (1.12)	66.0 (2.60)	5/8
	1/4 in. Female NPT	DQPM2-F4N	28.4 (1.12)	75.9 (2.99)	3/4
	3/8 in. Female NPT	DQPM2-F6N	28.4 (1.12)	77.2 (3.04)	3/4
DQPM4	1/4 in. Female NPT	DQPM4-F4N	44.0 (1.73)	85.1 (3.35)	15/16
	3/8 in. Female NPT	DQPM4-F6N	44.0 (1.73)	85.1 (3.35)	15/16
DQPM8	1/2 in. Female NPT	DQPM8-F8N	50.8 (4.30)	89.7 (3.53)	1-1/4
	3/4 in. Female NPT	DQPM8-F12N	50.8 (4.30)	102.0 (4.02)	1-5/16
	1 in. Female NPT	DQPM8-F16N	50.8 (4.30)	112.0 (4.40)	1-5/8
		ISO Tapered Female BSPT			
DQPM2	1/4 in. Female PT	DQPM2-F4R	28.4 (1.12)	75.9 (2.99)	3/4
DQPM4	1/4 in. Female PT	DQPM4-F4R	44.0 (1.73)	85.1 (3.35)	15/16
DQPM8	1/2 in. Female PT	DQPM8-F8R	50.8 (4.30)	89.7 (3.53)	1-1/4
		ISO Parallel Female BSPP			
DQPM2	1/8 in. Female PF	DQPM2-F2G	28.4 (1.12)	66.0 (2.60)	5/8
	1/4 in. Female PF	DQPM2-F4G	28.4 (1.12)	75.9 (2.99)	3/4
DQPM4	1/4 in. Female PF	DQPM4-F4G	44.0 (1.73)	85.1 (3.35)	15/16
DQPM8	1/2 in. Female PF	DQPM8-F8G	50.8 (4.30)	89.7 (3.53)	1-1/4

Bulkhead Bodies
DK-Lok Tube Fitting

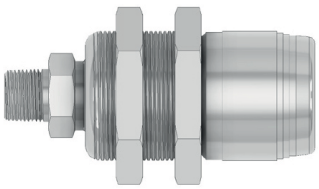


Series	End Connection	Basic Ordering Number	D mm (in.)	L mm (in.)	h Hex. In	Panel Hole Drill size mm (in.)	Panel Max Thickness mm (in.)
			DK-Lok Tube Fitting				
DQPM2	1/4 in. DK-Lok	DQPM2-D4T-B	28.4 (1.12)	80.3 (3.16)	5/8	30.6 (1.20)	16.5 (0.65)
	6 mm DK-Lok	DQPM2-D6M-B	28.4 (1.12)	80.3 (3.16)	15mm	30.6 (1.20)	16.5 (0.65)
DQPM4	1/4 in. DK-Lok	DQPM4-D4T-B	44.0 (1.73)	119.0 (4.68)	15/16	11.7 (0.46)	3.8 (0.15)
	3/8 in. DK-Lok	DQPM4-D6T-B	44.0 (1.73)	122.0 (4.80)	15/16	14.7 (0.58)	3.8 (0.15)
	6 mm DK-Lok	DQPM4-D6M-B	44.0 (1.73)	119.0 (4.68)	24mm	11.7 (0.46)	3.8 (0.15)
	10 mm DK-Lok	DQPM4-D10M-B	44.0 (1.73)	122.0 (4.80)	24mm	16.8 (0.66)	3.8 (0.15)
DQPM8	1/2 in. DK-Lok	DQPM8-D8T-B	50.8 (4.30)	130.0 (5.11)	1-1/4	19.6 (0.77)	4.8 (0.19)
	12 mm DK-Lok	DQPM8-D12M-B	50.8 (4.30)	130.0 (5.11)	32mm	19.6 (0.77)	4.8 (0.19)
			Male NPT				
DQPM2	1/4 in. Male NPT	DQPM2-F4N-B	28.4 (1.12)	66.0 (2.60)	5/8	1.20 (30.6)	0.65 (16.5)
			Female NPT				
DQPM2	1/8 in. Female NPT	DQPM2-F2N-B	28.4 (1.12)	66.0 (2.60)	5/8	30.6 (1.20)	16.5 (0.65)
	1/4 in. Female NPT	DQPM2-F4N-B	28.4 (1.12)	66.0 (2.60)	5/8	30.6 (1.20)	16.5 (0.65)

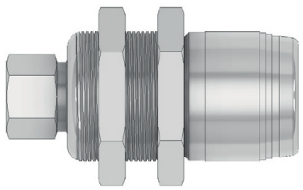
DQPM2 Integral Bulkhead



Male NPT



Female NPT

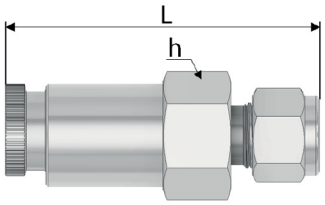


All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Ordering Information and Dimensions Stems

Stems

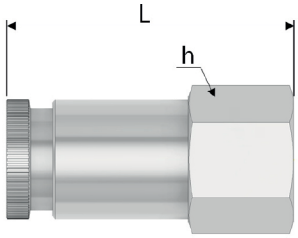
Dk-Lok Tube Fitting



SV : Stem has no valve
DV : Stem has a valve

Series	End Connection	Basic Ordering Number		Cv		L mm (in.)	h Hex. In
		SV	DV	SV	DV		
DK-Lok Tube Fitting							
DQPM2	1/4 in. DK-Lok	DQPM2S-D4T	DQPM2D-D4T	0.7	0.6	51.1 (2.01)	5/8
	3/8 in. DK-Lok	DQPM2S-D6T	DQPM2D-D6T	0.9	0.8	52.6 (2.07)	11/16
	6 mm DK-Lok	DQPM2S-D6M	DQPM2D-D6M	0.7	0.6	51.1 (2.01)	16mm
	8 mm DK-Lok	DQPM2S-D8M	DQPM2D-D8M	0.9	0.8	53.1 (2.09)	16mm
DQPM4	1/4 in. DK-Lok	DQPM4S-D4T	DQPM4D-D4T	0.9	0.8	66.3 (2.61)	15/16
	3/8 in. DK-Lok	DQPM4S-D6T	DQPM4D-D6T	1.7	1.6	67.8 (2.67)	15/16
	6 mm DK-Lok	DQPM4S-D6M	DQPM4D-D6M	0.9	0.8	66.3 (2.61)	5/8
	10 mm DK-Lok	DQPM4S-D10M	DQPM4D-D10M	1.7	1.6	68.1 (2.68)	24mm
DQPM8	1/2 in. DK-Lok	DQPM8S-D8T	DQPM8D-D8T	4.2	3.1	77.7 (3.06)	1-5/16
	3/4 in. DK-Lok	DQPM8S-D12T	DQPM8D-D12T	6.7	6.4	77.7 (3.06)	1-5/16
	1 in. DK-Lok	DQPM8S-D16T	DQPM8D-D16T	9.0	7.8	83.1 (3.27)	1-3/8
	12 mm DK-Lok	DQPM8S-D12M	DQPM8D-D12M	4.2	3.1	77.7 (3.06)	35mm

Female NPT / BSPT / BSPP



Series	End Connection	Basic Ordering Number		Cv		L mm (in.)	h Hex. In
		SV	DV	SV	DV		
DK-Lok Tube Fitting							
DQPM2	1/4 in. Female NPT	DQPM2S-F4N	DQPM2D-F4N	0.2	0.2	48.5 (1.91)	5/8
	3/8 in. Female NPT	DQPM2S-F6N	DQPM2D-F6N	0.7	0.6	51.8 (2.04)	11/16
DQPM4	1/4 in. Female NPT	DQPM4S-F4N	DQPM4D-F4N	1.4	1.4	62.5 (2.46)	15/16
	3/8 in. Female NPT	DQPM4S-F6N	DQPM4D-F6N	1.8	1.7	62.5 (2.46)	15/16
DQPM8	1/2 in. Female NPT	DQPM8S-F8N	DQPM8D-F8N	5.1	4.4	70.6 (2.78)	1-5/16
	3/4 in. Female NPT	DQPM8S-F12N	DQPM8D-F12N	8.5	7.8	70.6 (2.78)	1-5/16
	1 in. Female NPT	DQPM8S-F16N	DQPM8D-F16N	-	-	77.0 (3.03)	1-5/8
ISO Tapered Female BSPT							
DQPM2	1/4 in. Female PT	DQPM2S-F4R	DQPM2D-F4R	0.2	0.2	48.5 (1.91)	5/8
DQPM4	1/4 in. Female PT	DQPM4S-F4R	DQPM4D-F4R	1.4	1.4	62.5 (2.46)	15/16
DQPM8	1/2 in. Female PT	DQPM8S-F8R	DQPM8D-F8R	5.1	4.4	70.6 (2.78)	1-5/16
ISO Parallel Female BSPP							
DQPM2	1/8 in. Female PF	DQPM2S-F2G	DQPM2D-F2G	0.5	0.4	48.5 (1.91)	5/8
	1/4 in. Female PF	DQPM2S-F4G	DQPM2D-F4G	0.6	0.6	48.5 (1.91)	3/4
DQPM4	1/4 in. Female PF	DQPM4S-F4G	DQPM4D-F4G	1.2	1.2	63.0 (2.48)	15/16
DQPM8	1/2 in. Female PF	DQPM8S-F8G	DQPM8D-F8G	4.8	3.9	70.6 (2.78)	1-5/16

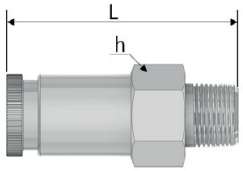
All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Ordering Information and Dimensions Stems

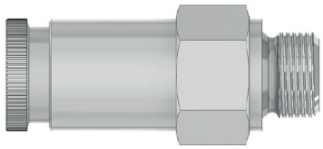
Stems

SV : Stem has no valve
DV : Stem has a valve

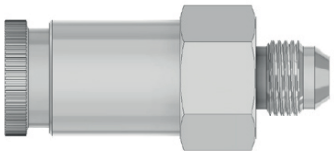
Male NPT / BSPT



Male BSPP



Male JIC 37°



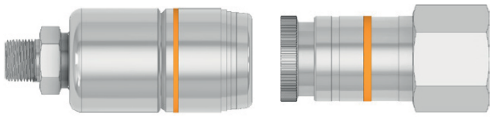
Series	End Connection	Basic Ordering Number		Cv		L mm (in.)	h Hex. In
		SV	DV	SV	DV		
			Male NPT				
DQPM2	1/4 in. Male NPT	DQPM2S-M4N	DQPM2D-M4N	0.2	0.2	48.5 (1.91)	5/8
	3/8 in. Male NPT	DQPM2S-M6N	DQPM2D-M6N	0.7	0.6	51.8 (2.04)	11/16
DQPM4	1/4 in. Male NPT	DQPM4S-M4N	DQPM4D-M4N	1.4	1.4	62.5 (2.46)	15/16
	3/8 in. Male NPT	DQPM4S-M6N	DQPM4D-M6N	1.8	1.7	62.5 (2.46)	15/16
DQPM8	1/2 in. Male NPT	DQPM8S-M8N	DQPM8D-M8N	5.1	4.4	70.6 (2.78)	1-5/16
	3/4 in. Male NPT	DQPM8S-M12N	DQPM8D-M12N	8.5	7.8	70.6 (2.78)	1-5/16
	1 in. Male NPT	DQPM8S-M16N	DQPM8D-M16N	-	-	77.0 (3.03)	1-5/8
			ISO Tapered Male BSPT				
DQPM2	1/4 in. Male PT	DQPM2S-M4R	DQPM2D-M4R	0.2	0.2	48.5 (1.91)	5/8
DQPM4	1/4 in. Male PT	DQPM4S-M4R	DQPM4D-M4R	1.4	1.4	62.5 (2.46)	15/16
DQPM8	1/2 in. Male PT	DQPM8S-M8R	DQPM8D-M8R	5.1	4.4	70.6 (2.78)	1-5/16
			ISO Parallel Male BSPP				
DQPM2	1/8 in. Male PF	DQPM2S-M2G	DQPM2D-M2G	0.5	0.4	48.5 (1.91)	5/8
	1/4 in. Male PF	DQPM2S-M4G	DQPM2D-M4G	0.6	0.6	48.5 (1.91)	3/4
DQPM4	1/4 in. Male PF	DQPM4S-M4G	DQPM4D-M4G	1.2	1.2	63.0 (2.48)	15/16
DQPM8	1/2 in. Male PF	DQPM8S-M8G	DQPM8D-M8G	4.8	3.9	70.6 (2.78)	1-5/16
			Male JIC 37° Flare				
DQPM4	1/4 in. AN Flare	DQPM4S-M4A	DQPM4D-M4A	-	-	63.0 (2.48)	15/16
DQPM8	1/2 in. AN Flare	DQPM8S-M8A	DQPM8D-M8A	4.2	2.7	70.6 (2.78)	1-5/16

All dimensions shown are for reference only and subject to change. Dimensions with DK-Lok Tube Fittings are in finger-tight position.
We reserve the right to change specifications stated in this catalog for our continuing program of product improvement.

How to Order

DQPM series consists of a DV or SV stem and body
Examples : DQPM4D-D6T-S(DV), DQPM4S-D6T-S(SV), DQPM4-D6T-S(Body)

DQPM color coded “Keyed” quick connect



Key Color	Key Number and Designator
Black	K1
Orange	K2
Green	K3
Yellow	K4
Blue	K5
White	K6
Purple	K7
Brown	K8

Features

- DQPM Keyed quick connect prevent intermixing of different keys mechanically as well as allow visual identification by color coding.
- Eight (8) different keys on each DQPM series are available with its own Key number.
- DQPM keys are useful to control multi-fluid or multi-pressure systems.
- If an attempt is made to couple unlike keys, the valve system will not open.

Operation

- Select stem and body keyed in the same DQPM series.
- Coupling: Align stem with body. Push stem into body until it clicks.
- Uncoupling: Pull body sleeve toward stem. Remove stem.

How to Order

Add the key number as a suffix to the DQPM series Ordering Number.
Examples : DQPM4-D6T-K1-S, DQPM4D-D6T-K1-S
DQPM2 and DQPM4 series quick connect are available in keys K1 through K8.
DQPM8 series quick connect are available in keys K1 through K4 only.

The information shown in this catalog are not for design purpose, but for reference only.
The accuracy of information is not the liability of our company.

Safe Component Selection

The Selection of component for any applications or system design must be considered to ensure safe performance Component function, material compatibility, component ratings, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

DK-LOK

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IDK-LOK

RCQ Series
NGV Products

Rev. 01-01
Aug. 2023

NGV Products

RCQ series Receptacle

DK-LOK RCQ series receptacles fully comply with and are certified to the ANSI/AGA/CGA/ NGV1 and ECE R110 standards for Compressed Natural Gas Vehicles (NGV) fueling connection devices.

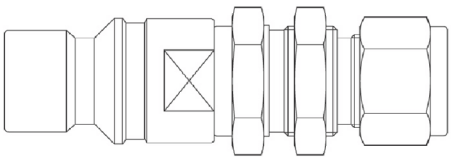
DK-LOK RCQ series receptacle is designed for permanent mounting on a compressed natural gas vehicle (NGV).

DK-LOK RCQA receptacle utilizes the NGV 1 profile which allows complete interchangeability to any fueling nozzles conforming to the NGV 1 standard.

Features

- RCQA series Receptacle design to meet the NGV1 profiles and delivered with integrated non-contact check valve.
- RCQA series Receptacle complies with NGV1 in dimension and performance.
- RCQB series is specifically designed for CNG refueling of bus and truck and delivered with integrated particle filter of 50 micron and non-contact check valve.
- RCQA and RCQB series are for fast-fill and time-fill dispensing.

RCQA Series Profile



RCQA series is designed for CNG refueling of cars.

RCQA Certificates

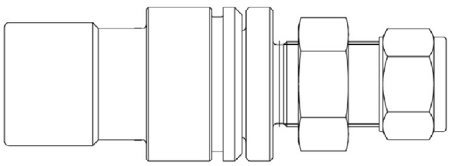
ECE R110
Certificate No.: E13-110R00-0187-00

- **Working Pressure**: 34.1 MPa(341 bar) at 120°C
- **Operating temperature**: -40 to 120°C

ANSI / AGA / CGA NGV1
TUV Certificate No.: 2010-CERT-015 (00)

- **Service Pressure**: 250 bar / 25 MPa at 15°C
- **Operating temperature**: -40 to 121°C

RCQB Series Profile



RCQB series is specifically designed for CNG refueling of buses and trucks.

RCQB Certificate

ECE R110
Certificate No.: E13-110R00-0195-00

- **Working Pressure**: 27.3 MPa(273 bar) at 120°C
- **Operating temperature**: -40 to 120°C

Factory Test

Every receptacle is factory tested with nitrogen @ 1000 psig (68 bar) for no detectable leakage on sealing and shell integrity.

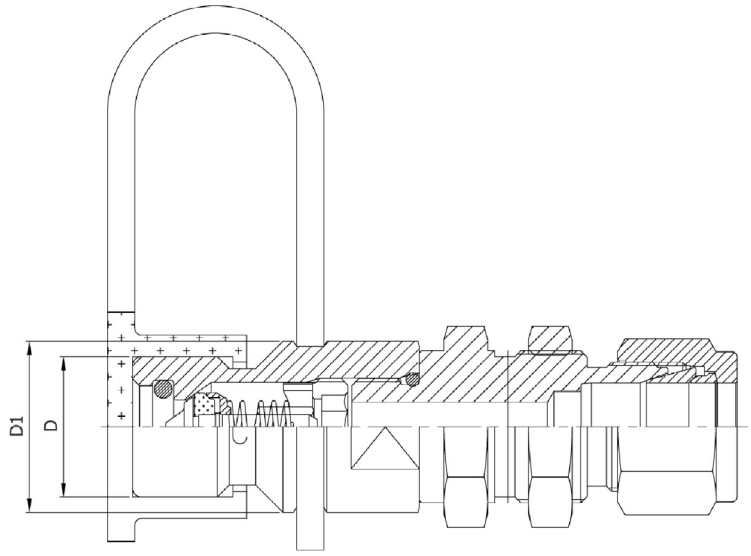
Cleaning

Every receptacle is cleaned and packaged in accordance with the requirements of our cleaning standard of DC-01.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Technical Data

Subjects	RCQA series	RCQB series
D	20.5 mm	32 mm
D1	P30: 25 mm P36: 24 mm	35 mm
Working Pressure	P30 and P36 NGV1 profiles P30 (3000 psi, 200 bar) P36 (3600 psi, 250 bar) Working pressure is maintained both in connection and disconnection position.	3900 psi (273 bar) Working pressure is maintained both in connection and disconnection position.
Temperature	- 40 to 120 °C (-40 to 250 °F)	
Rated Flow	1500 scfm	3600 scfm
Internal Orifice Area	0.075 in^2 (0.48 cm^2)	0.23 in^2 (1.49 cm^2)
Weight	90 gram (0.20 lbs)	450 gram (0.99 lbs)
Internal Check Valve	Included as standard.	Included as standard.
Particle Filter	Not applicable	Particle Filter of 50 micron included as standard.



Materials of Construction

Body: 316 Stainless steel
Connector: 316 Stainless steel

Internal components: stainless steel
Seals: Natural gas compatible HNBR

Dust protection cap:
Low temperature Nitrile compound.

- Receptacle is constructed out of high strength cold drawn 316 stainless steel bar.
- Internal check valve provides unidirectional flow to vehicle from dispenser.
- Self-centering check valve poppet makes sure of positive sealing.
- Non-barrel type design of check valve poppet reduces sticking caused by icing or contamination in the valve.
- Delivered with standard dust protection cap.

Safety

Key system prevents higher pressure fueling nozzle from connecting onto lower pressure receptacle.

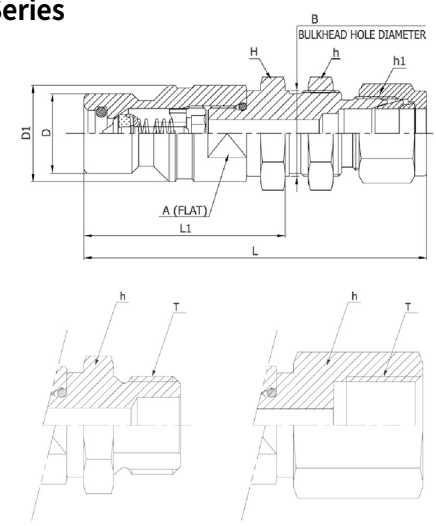
Fueling nozzle for higher pressure P36 (3600 psi) receptacle mechanically not accepts connection with lower pressure P30 (3000 psi) receptacle. However fueling nozzle for lower pressure P30 receptacle accepts mechanically connection with higher pressure P36 receptacle.

Operation

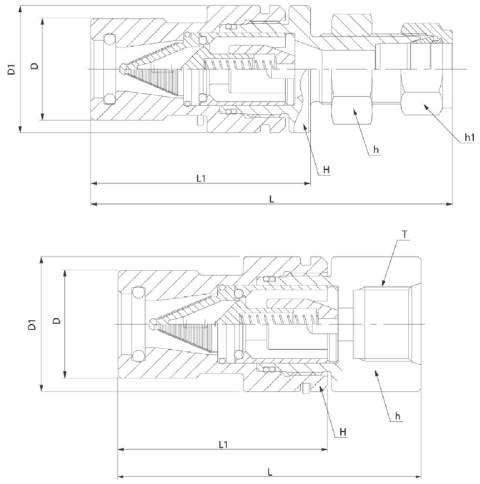
- RCQA series receptacle is compatible with any fueling nozzle conforming to the NGV1 standard.
- RCQA series is available in different service pressures of 3000 psi and 3600 psi.
- Internal check valve prevents flow while fueling nozzle is disconnected.
- Designed for time-fill and fast-fill.
- Cycle tested to withstand more than 20,000 connections.
- RCQB is recommended for refueling of heavy vehicles.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

RCQA Series



RCQB Series



Ordering Numbers and Dimensions

Unit : mm

Ordering Number			End Connection	Dimensions								
RCQ	A-	P30-	**Receptacle Bulkhead DK-LOK**	D	D1	L	L1	A(Flats)	H	h	h1	B
			D4T-S	1/4" DK-LOK	20.5	25	84.4	52	20.6	25.4	25.4	14.28	22.22
			D6T-S	3/8" DK-LOK			85.9					17.46	
			D8T-S	1/2" DK-LOK			88.4					22.22	
			D6M-S	6 mm DK-LOK			84.3					14	
			D8M-S	8 mm DK-LOK			85.2					16	
			D10M-S	10 mm DK-LOK			86.1					19	
			D12M-S	12 mm DK-LOK			88.6					22	
			Receptacle Male Thread										
			M8G-S	1/2" Male ISO 228-1 (BSPP)	20.5	25	66.2	52	20.6	25.4	-	-	-
			M10U-S	7/8-14 SAE J514 Male with O-Ring			64.7				-	-	-
			MAN6-S	9/16-18 SAE J514 Male for 3/8" OD			67.1				-	-	-
			MAN6LH-S	9/16-18 SAE J514 Male left-handed thread for 3/8" OD			67.1				-	-	-
			Receptacle Female Thread										
			F8G-S	1/2" Female ISO 228-1 (BSPP)	20.5	25	71.9	52	20.6	25.4	-	-	-
		P36-	**Receptacle Bulkhead DK-LOK**										
			D4T-S	1/4" DK-LOK	20.5	24	84.4	52	20.6	25.4	25.4	14.28	22.22
			D6T-S	3/8" DK-LOK			85.9					17.46	
			D8T-S	1/2" DK-LOK			88.4					22.22	
			D6M-S	6 mm DK-LOK			84.3					14	
			D8M-S	8 mm DK-LOK			85.2					16	
			D10M-S	10 mm DK-LOK			86.1					19	
			D12M-S	12 mm DK-LOK			88.6					22	
			Receptacle Female Thread										
			F8G-P30-S	1/2" Female ISO 228-1 (BSPP)	20.5	24	71.9	52	20.6	25.4	-	-	-
	B-		**Receptacle Bulkhead DK-LOK**										
			D8T-S	1/2" DK-LOK	32	35	115	70	34	34	30	22.22	22.2
			D10T-S	5/8" DK-LOK			115					25.4	
			D12M-S	12 mm DK-LOK			115					22	
			D16M-S	16 mm DK-LOK			115					25	
			Receptacle Internal Thread										
			F10 U-S	7/8-14 internal thread SAE Boss J1926	32	35	90	62	34	34	30	-	-

How to Order

RCQB series is supplied with particle filter of 50 micron and internal check valve as standard. To order receptacle with no particle filter, insert NF in the ordering number. Example: RCQB-D16M-**NF**-S

Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. Dk Tech accepts no liability for any improper selection, installation, operation or maintenance.

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The information shown in this catalog are not for design purpose, but for reference only.
The accuracy of information is not the liability of our company.

Safe Component Selection

The Selection of component for any applications or system design must be considered to ensure safe performance Component function, material compatibility, component ratings, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

DK-LOK

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