Quick Couplings

HQP Series: 10,000 psig (690 bar)
HQB Series: 10,000 psig (690 bar)
HQS Series: 20,000 psig (1379 bar)
HQC Series: 30,000 psig (2068 bar)

Contents

HQP Series C-04

HQB Series C-06

HQS Series C-08

HQC Series C-10

Ordering Number Description C-16

HQP Series

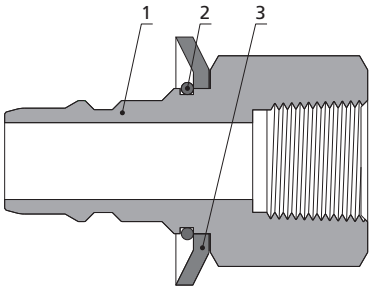
Features

◎ Working pressure: 10,000 psig (690 bar)
◎ Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other O-ring materials available
◎ Stem and body material: high tensile 316 stainless steel
◎ Push-and-pull type quick coupling without check valve, incapable of withstanding any pressure when disconnected
◎ Flow coefficient (Cv) up to 8.2
◎ Sturdy locking mechanism with large contact area to ensure reliable stem retainment
◎ Slip sleeve lock design prevents accidental disconnection

Cautions

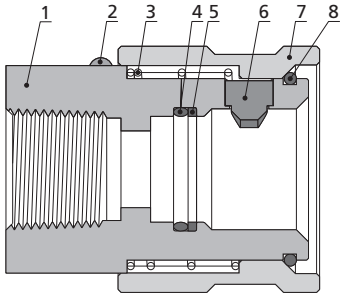
◎ Do not disconnect or connect quick couplings when system is pressurized
◎ Do not rotate quick couplings when connected
◎ Take care to protect the nipple and coupler when disconnected

Standard Materials of Construction



Nipple

Item	Component	Material Grade
1	*Stem*	*316 SS*
2	Wire Ring	Stainless Steel
3	Pull Piece	316 SS

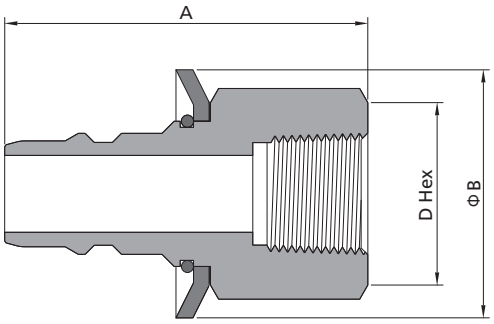


Coupler

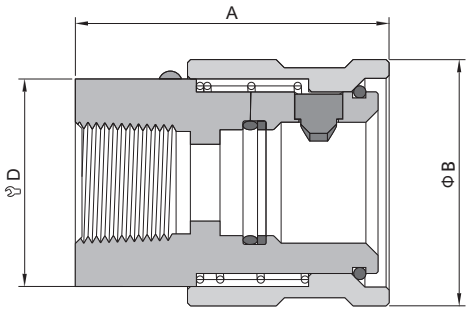
Item	Component	Material Grade
1	*Body*	*316 SS*
2	Pin	Stainless Steel
3	Spring	300 Series SS
4	*O-Ring*	*Fluorocarbon FKM*
5	Retaining Ring	PTFE
6	Locking Block	Stainless Steel
7	Slip Sleeve	316 SS
8	Wire Ring	Stainless Steel

Wetted component listed in italics.

Ordering Information and Dimensions



Nipple



Coupler

Type	Ordering Number	Connection	Dimensions, in. (mm)			Working Pressure psig (bar)
			A	B	D	
Nipple	HQPSS-FNS6-NP	FNS6	2.17 (55.0)	1.59 (40.4)	1.19 (30.2)	10,000 (690)
	HQPSS-FNS8-NP	FNS8	2.36 (60.0)	1.59 (40.4)	1.19 (30.2)	
Coupler	HQPSS-FNS6-CP	FNS6	2.05 (52.0)	1.59 (40.4)	1.19 (30.2)	
	HQPSS-FNS8-CP	FNS8	2.05 (52.0)	1.59 (40.4)	1.19 (30.2)	

Note: All dimensions are shown for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

HQB Series

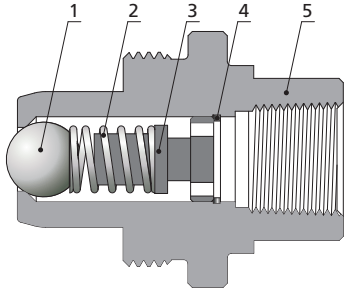
Features

◎ Working Pressure: 10,000 psig (690 bar)
◎ Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other O-ring materials available
◎ S17400 stainless steel stem and high tensile S17400 stainless steel body
◎ Screw type quick coupling with check valve, capable of withstanding full pressure when disconnected
◎ Flow coefficient (Cv) up to 0.53
◎ Check valve with metal ball sealing, without guarantee of full gas impermeability

Cautions

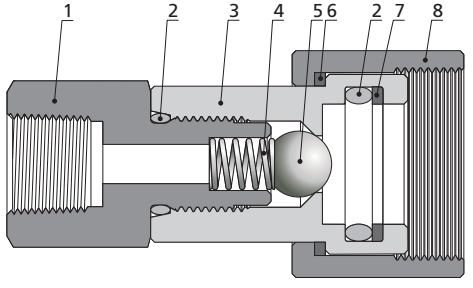
◎ Do not disconnect or connect quick couplings when system is pressurized
◎ Finger tighten the threads to "face-to-face" station when connected
◎ Take care to protect the nipple and coupler when disconnected

Standard Materials of Construction



Nipple

Item	Component	Material Grade
1	*Ball*	*Stainless Steel*
2	*Spring*	*300 Series SS*
3	*Seat*	*316 SS*
4	*Retaining Ring*	*Stainless Steel*
5	*Stem*	*S17400 SS*

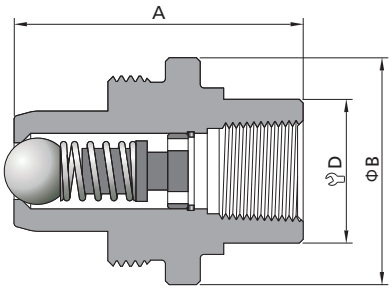


Coupler

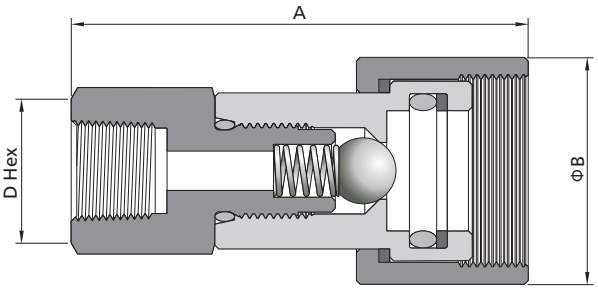
Item	Component	Material Grade
1	*Body*	*316 SS*
2	*O-Ring*	*Fluorocarbon FKM*
3	*Housing*	*S17400 SS*
4	*Spring*	*300 Series SS*
5	*Ball*	*Stainless Steel*
6	Ring	C63000
7	Retaining Ring	PTFE
8	Nut	S17400 SS
	Sealant Adhesive	*Anaerobic Adhesive*

Wetted component listed in italics.

Ordering Information and Dimensions



Nipple



Coupler

Type	Ordering Number	Connection	Dimensions, in. (mm)			Working Pressure psig (bar)
			A	B	D	
Nipple	HQB4P-FNS4-NP	FNS4	1.54 (39.2)	1.18 (30.0)	0.75 (19.0)	10,000 (690)
	HQB4P-FNS6-NP	FNS6	1.54 (39.2)	1.18 (30.0)	0.94 (23.8)	
Coupler	HQB4P-FNS4-CP	FNS4	2.46 (62.4)	1.18 (30.0)	0.87 (22.2)	
	HQB4P-FNS6-CP	FNS6	2.46 (62.4)	1.18 (30.0)	0.94 (23.8)	

Note: All dimensions are shown for reference only and are subject to change. Other dimensions are available upon request.

HQS Series

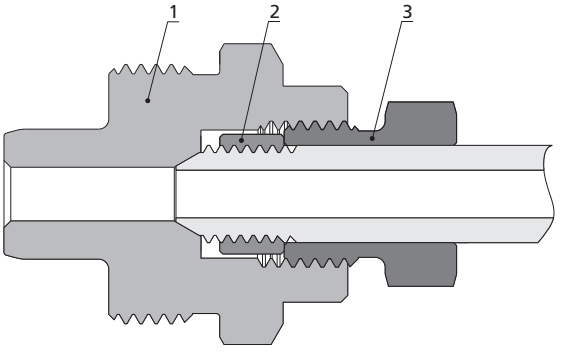
Features

◎ Working pressure up to 20,000 psig (1379 bar)
◎ Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other O-ring materials available
◎ High tensile 316 stainless steel stem and S17400 stainless steel body
◎ Screw type quick coupling without check valve, incapable of withstanding any pressure when disconnected
◎ Flow coefficient (Cv) up to 33.4

Cautions

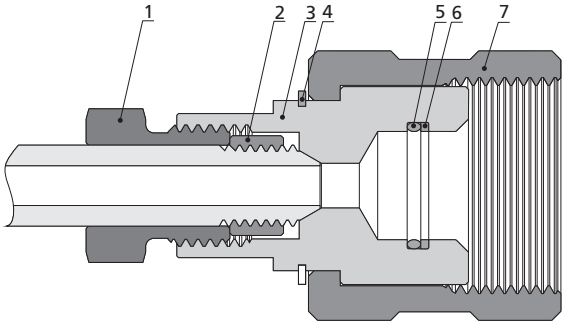
◎ Do not disconnect or connect quick couplings when system is pressurized
◎ Finger tighten the threads to "face-to-face" station when connected
◎ Take care to protect the nipple and coupler when disconnected

Standard Materials of Construction



Nipple

Item	Component	Material Grade
1	*Stem*	*316 SS*
2	Collar	316 SS *(For Tubing Connections)*
3	Gland	316 SS *(For Tubing Connections)*

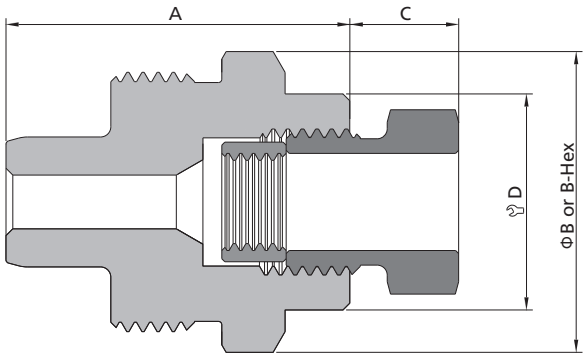


Coupler

Item	Component	Material Grade
1	Gland	316 SS *(For Tubing Connections)*
2	Collar	316 SS *(For Tubing Connections)*
3	*Body*	*S17400 SS*
4	Circlip	Stainless Steel
5	*O-Ring*	*Fluorocarbon FKM*
6	Retaining Ring	PTFE
7	Nut	316 SS

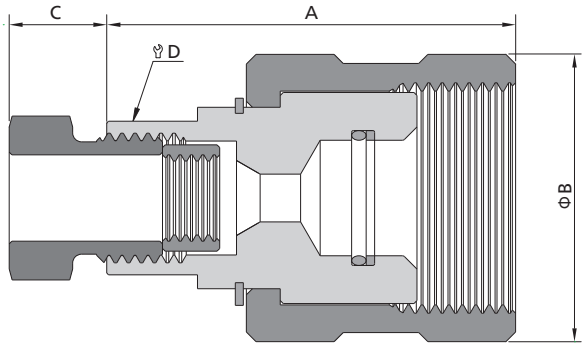
Wetted component listed in italics

Ordering Information and Dimensions



Nipple

Type	Ordering Number	Connection	Dimensions, in. (mm)				Working Pressure psig (bar)
			A	B	C	D	
Nipple	HQSSS-MF9-NP	MF9	2.40 (61.0)	1.74 (44.2)	0.55 (14.0)	1.25 (31.8)	20,000 (1379)
	HQSSS-FNS8-NP	FNS8	2.40 (61.0)	1.74 (44.2)		1.25 (31.8)	15,000 (1034)
	HQSSS-FNS12-NP	FNS12	2.48 (63.0)	2.00 (50.8)			10,000 (690)
	HQSSS-FNS16-NP	FNS16	2.60 (66.0)	2.25 (57.2)			10,000 (690)



Coupler

Type	Ordering Number	Connection	Dimensions, in. (mm)				Working Pressure psig (bar)
			A	B	C	D	
Coupler	HQSSS-MF9-CP	MF9	2.61 (66.3)	1.91 (48.4)	0.55 (14.0)	1.00 (25.4)	20,000 (1379)
	HQSSS-FNS8-CP	FNS8	2.61 (66.3)	1.91 (48.4)		1.00 (25.4)	15,000 (1034)
	HQSSS-FNS12-CP	FNS12	3.03 (77.0)	2.38 (60.4)		1.38 (34.9)	10,000 (690)
	HQSSS-FNS16-CP	FNS16	3.24 (82.4)	2.57 (65.4)		1.63 (41.3)	10,000 (690)

Note: All dimensions are shown for reference only and are subject to change. Other dimensions are available upon request.

FITOK

HQC Series

HQC Series Couplers

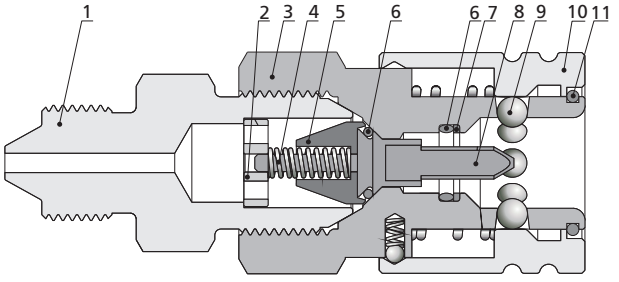
Features

- Working pressure up to 30,000 psig (2068 bar)
- Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other O-ring materials available
- Body material: S17400 stainless steel
- Push-and-pull type coupler with check valve, capable of withstanding full pressure when disconnected
- Flow coefficient (Cv) up to 0.66

Cautions

- Do not disconnect or connect quick couplings when system is pressurized
- Do not rotate quick couplings when connected
- Take care to protect the nipple and coupler when disconnected

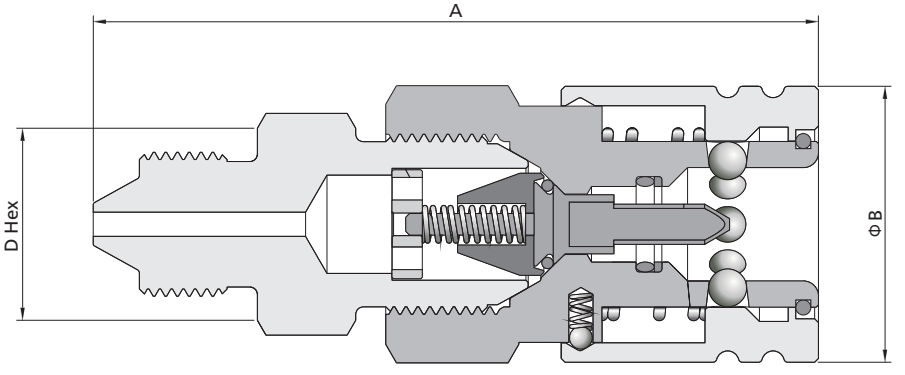
Standard Materials of Construction



Item	Component	Material Grade
1	*Body*	*S17400 SS*
2	*Seat*	*316 SS*
3	*Housing*	*S17400 SS*
4	*Spring*	*300 Series SS*
5	*Valve Head*	*316 SS*
6	*O-Ring*	*Fluorocarbon FKM*
7	Retaining Ring	PTFE
8	*Valve Stem*	*316 SS*
9	Ball	Stainless Steel
10	Sleeve	316 SS
11	Wire Ring	Stainless Steel

Wetted component listed in italics.

Ordering Information and Dimensions



Type	Ordering Number	Connection	Dimensions, in. (mm)			Working Pressure psig (bar)
			A	B	D	
Coupler	HQC4P-NS4-CP	NS4	3.48 (88.5)	1.39 (35.4)	1.00 (25.4)	15,000 (1034)
	HQC4P-NS6-CP	NS6	3.48 (88.5)	1.39 (35.4)	1.00 (25.4)	15,000 (1034)
	HQC4P-NS8-CP	NS8	3.68 (93.5)	1.39 (35.4)	1.00 (25.4)	15,000 (1034)
	HQC4P-FNS4-CP	FNS4	3.17 (80.5)	1.39 (35.4)	1.00 (25.4)	15,000 (1034)
	HQC4P-FNS6-CP	FNS6	3.27 (83.0)	1.39 (35.4)	1.13 (28.6)	15,000 (1034)
	HQC4P-FNS8-CP	FNS8	3.56 (90.5)	1.39 (35.4)	1.38 (34.9)	15,000 (1034)
	HQC4P-JM4-CP	JM4	3.48 (88.5)	1.39 (35.4)	1.00 (25.4)	20,000 (1379)
	HQC4P-JM6-CP	JM6	3.48 (88.5)	1.39 (35.4)	1.00 (25.4)	20,000 (1379)
	HQC4P-JM8-CP	JM8	3.58 (91.0)	1.39 (35.4)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM4-CP	MM4	3.62 (92.0)	1.39 (35.4)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM6-CP	MM6	3.76 (95.5)	1.39 (35.4)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM9-CP	MM9	3.95 (100.5)	1.39 (35.4)	1.00 (25.4)	20,000 (1379)
	HQC4P-HM4-CP	HM4	3.54 (90.0)	1.39 (35.4)	1.00 (25.4)	30,000 (2068)
	HQC4P-HM6-CP	HM6	3.80 (96.5)	1.39 (35.4)	1.00 (25.4)	30,000 (2068)
	HQC4P-HM9-CP	HM9	3.98 (101.0)	1.39 (35.4)	1.19 (30.2)	30,000 (2068)
	HQC4P-TM9-CP	TM9	3.43 (87.0)	1.39 (35.4)	1.00 (25.4)	30,000 (2068)
	HQC4P-TM12-CP	TM12	3.56 (90.5)	1.39 (35.4)	1.00 (25.4)	30,000 (2068)
	HQC4P-TM16-CP	TM16	3.56 (90.5)	1.39 (35.4)	1.00 (25.4)	30,000 (2068)

Note: All dimensions are shown for reference only and are subject to change. Other dimensions are available upon request.

FITOK

HQC Series Nipples with Check Valve

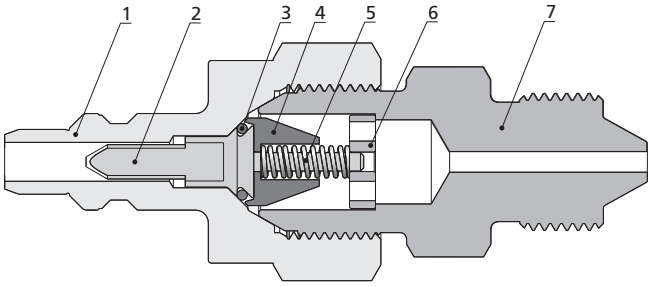
Features

◎ Working pressure up to 30,000 psig (2068 bar)
◎ Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other O-ring materials available
◎ Stem material: S17400 stainless steel
◎ Push-and-pull type nipple with check valve, capable of withstanding full pressure when disconnected
◎ Flow coefficient (Cv) up to 0.66

Cautions

◎ Do not disconnect or connect quick couplings when system is pressurized
◎ Do not rotate quick couplings when connected
◎ Take care to protect the nipple and coupler when disconnected

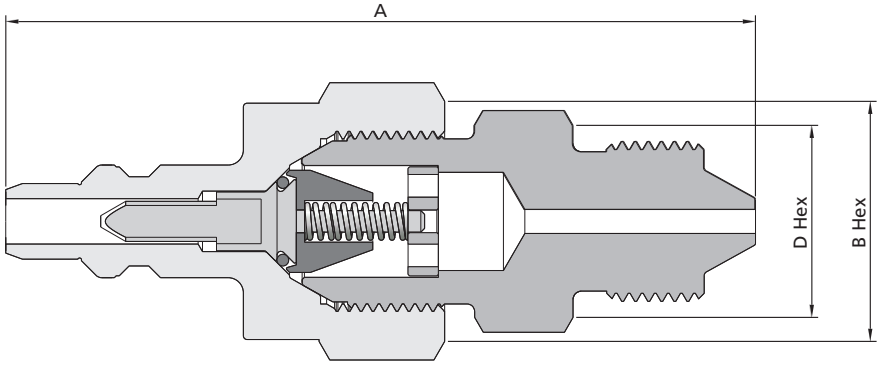
Standard Materials of Construction



Item	Component	Material Grade
1	*Stem*	*S17400 SS*
2	*Valve Stem*	*316 SS*
3	*O-Ring*	*Fluorocarbon FKM*
4	*Valve Head*	*316 SS*
5	*Spring*	*300 Series SS*
6	*Seat*	*316 SS*
7	*Body*	*S17400*

Wetted component listed in italics.

Ordering Information and Dimensions



Type	Ordering Number	Connection	Dimensions, in. (mm)			Working Pressure psig (bar)
			A	B	D	
Nipple	HQC4P-NS4-NP	NS4	3.52 (89.5)	1.25 (31.8)	1.00 (25.4)	15,000 (1034)
	HQC4P-NS6-NP	NS6	3.52 (89.5)	1.25 (31.8)	1.00 (25.4)	15,000 (1034)
	HQC4P-NS8-NP	NS8	3.70 (94.0)	1.25 (31.8)	1.00 (25.4)	15,000 (1034)
	HQC4P-FNS4-NP	FNS4	3.19 (81.0)	1.25 (31.8)	1.00 (25.4)	15,000 (1034)
	HQC4P-FNS6-NP	FNS6	3.31 (84.0)	1.25 (31.8)	1.13 (28.6)	15,000 (1034)
	HQC4P-FNS8-NP	FNS8	3.58 (91.0)	1.25 (31.8)	1.38 (34.9)	15,000 (1034)
	HQC4P-JM4-NP	JM4	3.50 (89.0)	1.25 (31.8)	1.00 (25.4)	20,000 (1379)
	HQC4P-JM6-NP	JM6	3.50 (89.0)	1.25 (31.8)	1.00 (25.4)	20,000 (1379)
	HQC4P-JM8-NP	JM8	3.43 (92.0)	1.25 (31.8)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM4-NP	MM4	3.64 (92.5)	1.25 (31.8)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM6-NP	MM6	3.80 (96.5)	1.25 (31.8)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM9-NP	MM9	3.98 (101.0)	1.25 (31.8)	1.00 (25.4)	20,000 (1379)
	HQC4P-HM4-NP	HM4	3.58 (91.0)	1.25 (31.8)	1.00 (25.4)	30,000 (2068)
	HQC4P-HM6-NP	HM6	3.84 (97.5)	1.25 (31.8)	1.00 (25.4)	30,000 (2068)
	HQC4P-HM9-NP	HM9	4.02 (102.0)	1.25 (31.8)	1.19 (30.2)	30,000 (2068)
	HQC4P-TM9-NP	TM9	3.46 (88.0)	1.25 (31.8)	1.00 (25.4)	30,000 (2068)
	HQC4P-TM12-NP	TM12	3.58 (91.0)	1.25 (31.8)	1.00 (25.4)	30,000 (2068)
	HQC4P-TM16-NP	TM16	3.60 (91.5)	1.25 (31.8)	1.00 (25.4)	30,000 (2068)

Note: All dimensions are shown for reference only and are subject to change. Other dimensions are available upon request.

FITOK

HQC Series Nipples without Check Valve

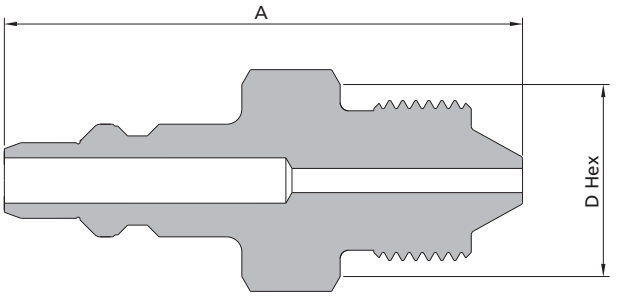
Features

◎ Working pressure up to 30,000 psig (2068 bar)
◎ Stem material: S17400 stainless steel
◎ Push-and-pull type nipple without check valve, incapable of withstanding any pressure when disconnected
◎ Flow coefficient (Cv) up to 0.66

Cautions

◎ Do not disconnect or connect quick couplings when system is pressurized
◎ Do not rotate quick couplings when connected
◎ Take care to protect the nipple and coupler when disconnected

Ordering Information and Dimensions



Type	Ordering Number	Connection	Dimensions, in. (mm)		Working Pressure psig (bar)
			A	D	
Nipple	HQC4P-NS4-NPO	NS4	2.25 (57.1)	1.00 (25.4)	15,000 (1034)
	HQC4P-NS6-NPO	NS6	2.25 (57.1)	1.00 (25.4)	15,000 (1034)
	HQC4P-NS8-NPO	NS8	2.44 (62.0)	1.00 (25.4)	15,000 (1034)
	HQC4P-FNS4-NPO	FNS4	2.05 (52.0)	1.00 (25.4)	15,000 (1034)
	HQC4P-FNS6-NPO	FNS6	2.09 (53.0)	1.13 (28.6)	15,000 (1034)
	HQC4P-FNS8-NPO	FNS8	2.36 (60.0)	1.38 (34.9)	15,000 (1034)
	HQC4P-JM4-NPO	JM4	2.24 (56.9)	1.00 (25.4)	20,000 (1379)
	HQC4P-JM6-NPO	JM6	2.24 (57.0)	1.00 (25.4)	20,000 (1379)
	HQC4P-JM8-NPO	JM8	2.35 (59.6)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM4-NPO	MM4	2.37 (60.3)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM6-NPO	MM6	2.52 (64.0)	1.00 (25.4)	20,000 (1379)
	HQC4P-MM9-NPO	MM9	2.69 (68.3)	1.00 (25.4)	20,000 (1379)
	HQC4P-HM4-NPO	HM4	2.31 (58.7)	1.00 (25.4)	30,000 (2068)
	HQC4P-HM6-NPO	HM6	2.56 (65.1)	1.00 (25.4)	30,000 (2068)
	HQC4P-HM9-NPO	HM9	2.81 (71.4)	1.19 (30.2)	30,000 (2068)
	HQC4P-TM9-NPO	TM9	2.19 (55.6)	1.00 (25.4)	30,000 (2068)
	HQC4P-TM12-NPO	TM12	2.32 (58.9)	1.00 (25.4)	30,000 (2068)
	HQC4P-TM16-NPO	TM16	2.33 (59.2)	1.00 (25.4)	30,000 (2068)

Note: All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

Ordering Number Description

HQC4P - HM6 - NP - B

Series	Body/Stem Material	Connection Type and Size	Product Type	O-Ring Material

Series
HQP
HQB
HQS
HQC

Body/Stem Material	
SS	316 SS
4P	S17400 SS

Connection Type and Size	
MF9	9/16" Female Medium Pressure
NS4	1/4" Male NPT
NS6	3/8" Male NPT
NS8	1/2" Male NPT
FNS4	1/4" Female NPT
FNS6	3/8" Female NPT
FNS8	1/2" Female NPT
JM4	1/4" Male JIC
JM6	3/8" Male JIC
JM8	1/2" Male JIC
MM4	1/4" Male Medium Pressure
MM6	3/8" Male Medium Pressure
MM9	9/16" Male Medium Pressure
HM4	1/4" Male High Pressure
HM6	3/8" Male High Pressure
HM9	9/16" Male High Pressure
TM9	9/16-18 (Thread Size) Male Type "M"
TM12	3/4-16 (Thread Size) Male Type "M"
TM16	1-12 (Thread Size) Male Type "M"

Product Type	
CP	HQP, HQB, HQS and HQC
NP	HQP, HQB and HQS
	HQC Series Nipple with Check Valve
NPO	HQC Series Nipple without Check Valve

O-Ring Material	
	Fluorocarbon FKM
B	NBR

Designator	O-Ring Material	Working Temperature Range, °F (°C)
	Fluorocarbon FKM	0 to 400 (-17.8 to 204)
B	NBR	-10 to 250 (-23 to 121)

Notes: 1. For more details regarding Medium/High Pressure connections, please see **Connection Information** on A-02.
2. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.