

G70P

Damage-Free Quick Connector

ONE-STOP CONNECTION

Damage-Free Locking | Manual Operation | Full Model Range | Polymer Materials | High Flow | OD Sealing |

The G70P series is a special version of the classic G70 external-grip connector, developed to prevent scratches on customer products made of aluminum or engineering plastics. The parts that contact the customer product - the locking jaws - have been improved, achieving damage-free connection while still meeting functional requirements for sealing and jaw life.



Damage-Free Quick Connector

- * Polymer locking jaws for damage-free connection
- * Sliding sleeve operation, intuitive to use
- * Straight-through flow channel: high flow and low pressure loss
- * Safety indicator at the rear for safe operation
- * Moulded seal: excellent sealing and long life

G70P Series Quick Connector Features

1. Jaw locking

High pressure rating, with test pressures up to 1 MPa.

2. Polymer jaws

The parts contacting the customer product use insert-type polymer jaws, so no scratches are caused.

3. Sliding sleeve operation

Intuitive design, simple to operate.

4. Straight-through design

Large flow bore, ideal for liquid running and ageing tests

Selected Models



G70P Series



G70RP Series



G70SP Series



G70NP Series

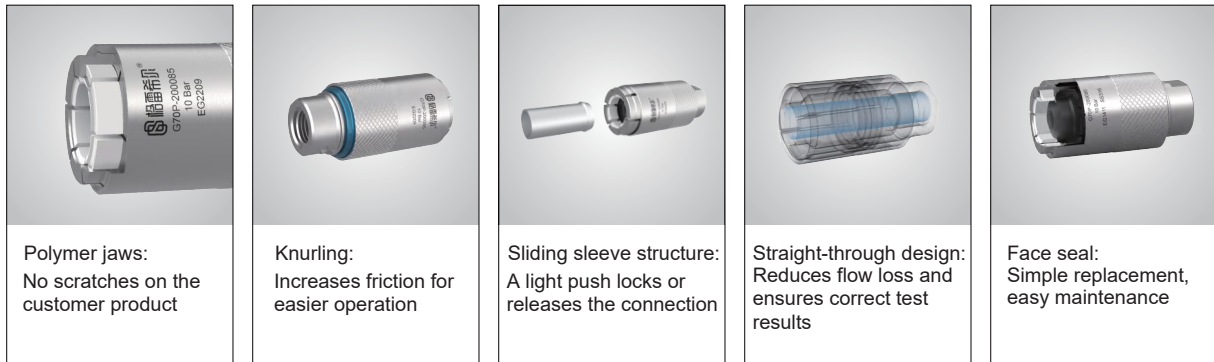
G70P

Damage-Free Quick Connector

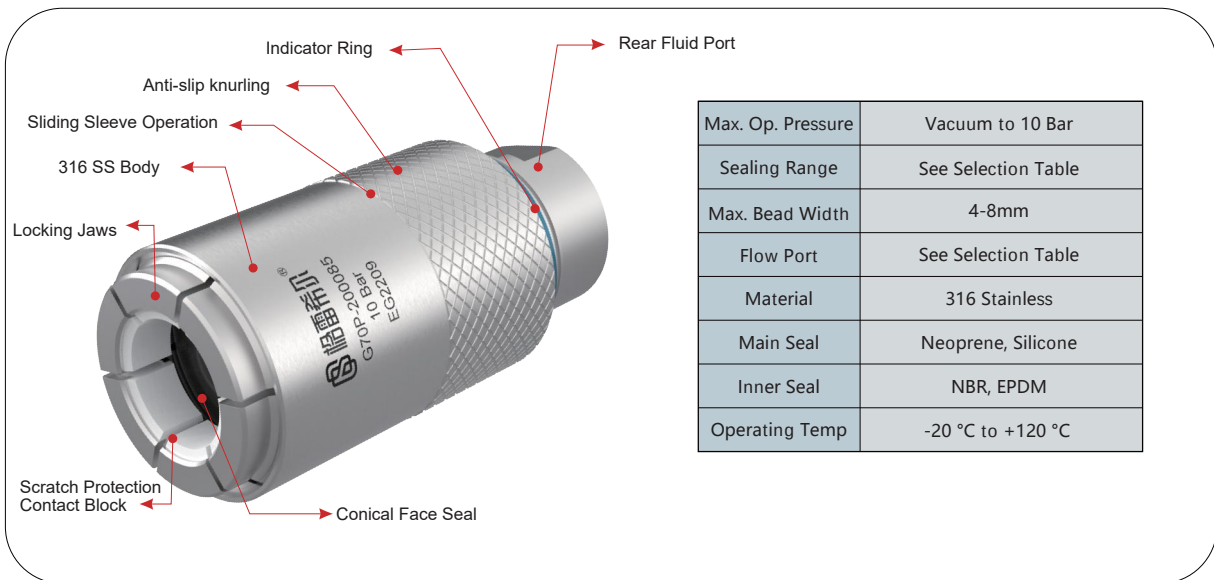
ONE-STOP CONNECTION

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G70P Quick Connector Advantages and Features



G70P Quick Connector Specifications



G70P Operation Demo



1. Align the connector with the tube to be sealed



2. Push to lock the connection

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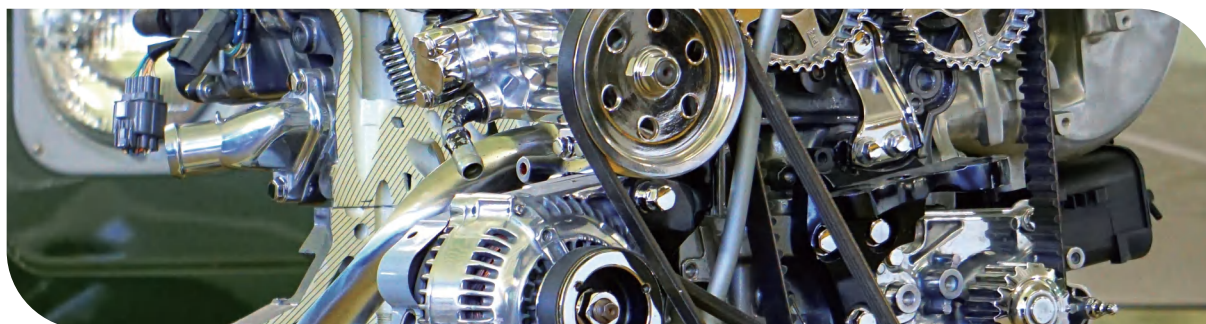
Application Cases



EV Battery Cold Plate Testing



Motor Cooling System

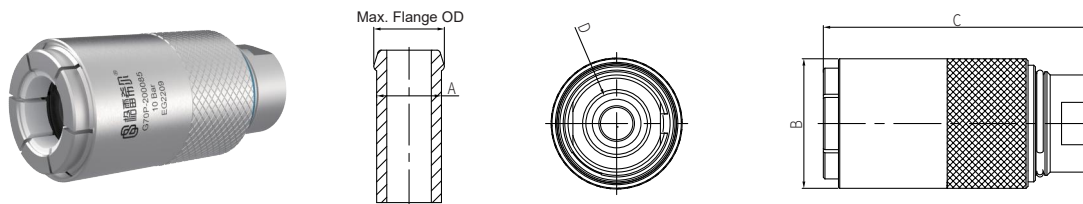


Engine Cooling Channel Testing

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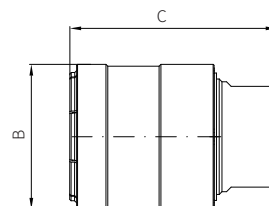
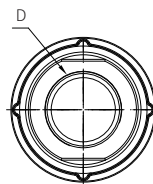
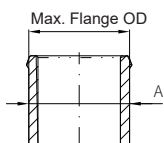
Coolant Pipe Selection Table

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D*	Max. Pressure*	Material	Seal Material	Seal No.
G70P-080025	8.0	2	25.4	80	BSPP1/4	10Bar	316 SS	Neoprene	SG70P-080025
G70P-090025	9.0								SG70P-090025
G70P-100045	10.0								SG70P-100045
G70P-110045	11.0								SG70P-110045
G70P-120045	12.0								SG70P-120045
G70P-130045	13.0	3	30.4	80	BSPP1/4	10Bar	316 SS	Neoprene	SG70P-130045
G70P-140065	14.0								SG70P-140065
G70P-150065	15.0								SG70P-150065
G70P-160065	16.0								SG70P-160065
G70P-170065	17.0								SG70P-170065
G70P-180085	18.0	4	35.4	83	BSPP3/8	10Bar	316 SS	Neoprene	SG70P-180085
G70P-190085	19.0								SG70P-190085
G70P-200085	20.0								SG70P-200085
G70P-210085	21.0								SG70P-210085
G70P-220085	22.0								SG70P-220085
G70P-230125	23.0	5	40.4	85	BSPP1/2	10Bar	316 SS	Neoprene	SG70P-230125
G70P-240125	24.0								SG70P-240125
G70P-250125	25.0								SG70P-250125
G70P-260125	26.0								SG70P-260125
G70P-270125	27.0								SG70P-270125
G70P-280125	28.0	6	46.4	93	BSPP3/4	10Bar	316 SS	Neoprene	SG70P-280125
G70P-290125	29.0								SG70P-290125
G70P-300125	30.0								SG70P-300125
G70P-310125	31.0								SG70P-310125
G70P-320125	32.0								SG70P-320125
G70P-330125	33.0	7	50.4	93	BSPP3/4	10Bar	316 SS	Neoprene	SG70P-330125
G70P-340125	34.0								SG70P-340125
G70P-350125	35.0								SG70P-350125
G70P-360125	36.0								SG70P-360125
G70P-370125	37.0								SG70P-370125
G70P-380125	38.0	8	55.4	93	BSPP3/4	10Bar	316 SS	Neoprene	SG70P-380125
G70P-390125	39.0								SG70P-390125
G70P-400125	40.0								SG70P-400125
G70P-400165	40.0								SG70P-400165
G70P-410165	41.0								SG70P-410165
G70P-420165	42.0	9	66	110.5	BSPP1	5Bar	316 SS	Neoprene	SG70P-420165
G70P-430165	43.0								SG70P-430165
G70P-440165	44.0								SG70P-440165
G70P-450165	45.0								SG70P-450165
G70P-460165	46.0								SG70P-460165
G70P-470165	47.0	9	66	110.5	BSPP1	5Bar	316 SS	Neoprene	SG70P-470165
G70P-480165	48.0								SG70P-480165

G70P Damage-Free Quick Connector

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Coolant Pipe Selection Table

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70P-500205	50.0	10	79	113	BSPP1 - 1/4	5Bar	Aluminum	Neoprene	SG70P-500205
G70P-520205	52.0								SG70P-520205
G70P-530205	53.0								SG70P-530205
G70P-540205	54.0								SG70P-540205
G70P-550205	55.0								SG70P-550205
G70P-560205	56.0								SG70P-560205
G70P-570205	57.0								SG70P-570205
G70P-600285	60.0	11	89	118	BSPP1 - 3/4	5Bar	Aluminum	Neoprene	SG70P-600285
G70P-610285	61.0								SG70P-610285
G70P-620285	62.0								SG70P-620285
G70P-630285	63.0								SG70P-630285
G70P-640285	64.0								SG70P-640285
G70P-650285	65.0								SG70P-650285
G70P-660285	66.0								SG70P-660285
G70P-670285	67.0								SG70P-670285
G70P-680285	68.0								SG70P-680285
G70P-700285	70.0	12	98	118	BSPP1 - 3/4	5 Bar	Aluminum	Neoprene	SG70P-700285
G70P-720285	72.0								SG70P-720285
G70P-740285	74.0								SG70P-740285
G70P-750285	75.0								SG70P-750285

G70P (Body 10 to Body 12)



Body 10



Body 11

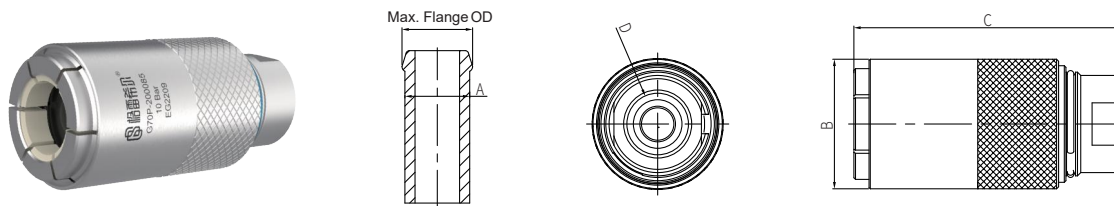


Body 12

G70P Damage-Free Quick Connector

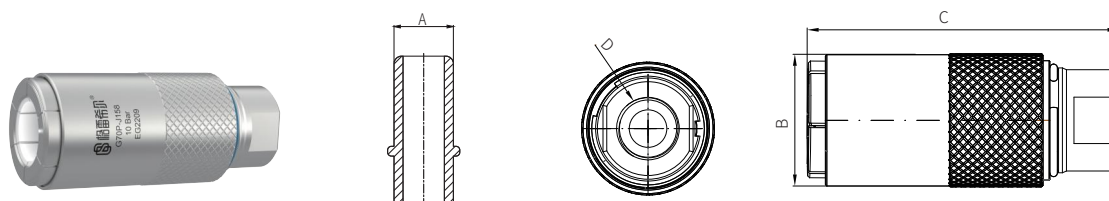
ONE-STOP CONNECTION

Damage-Free Locking | Manual Operation | Full Model Range | Polymer Materials | High Flow | OD Sealing |



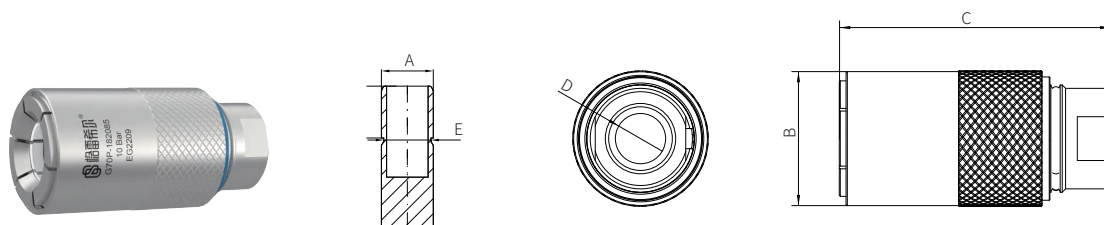
G70PK Damage-Free Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70PK-080025	8.0	2	25.4	80	BSPP1/4	10Bar	316 SS	Neoprene	SG70PK-080025
G70PK-100045	10.0	3	30.4	80	BSPP1/4	10Bar	316 SS	Neoprene	SG70PK-100045
G70PK-120045	12.0	4	35.4	83	BSPP3/8	10Bar	316 SS	Neoprene	SG70PK-120045
G70PK-140065	14.0								SG70PK-140065
G70PK-160065	16.0								SG70PK-160065
G70PK-170065	17.0	5	40.4	85	BSPP1/2	10Bar	316 SS	Neoprene	SG70PK-170065
G70PK-180085	18.0								SG70PK-180085
G70PK-190085	19.0								SG70PK-190085
G70PK-200085	20.0								SG70PK-200085



G70PJ Damage-Free Short Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70P-J079	7.89±0.06	2	25.4	80	BSPP1/4	10 Bar	316 SS	NBR	SG70P-J079
G70P-J095	9.49±0.06	3	30.4	80	BSPP1/4	10 Bar	316 SS	NBR	SG70P-J095
G70P-J118	11.80±0.10	4	35.4	83	BSPP3/8	10 Bar	316 SS	NBR	SG70P-J118
G70P-J126	12.61±0.10								SG70P-J126
G70P-J158	15.82±0.10								SG70P-J158



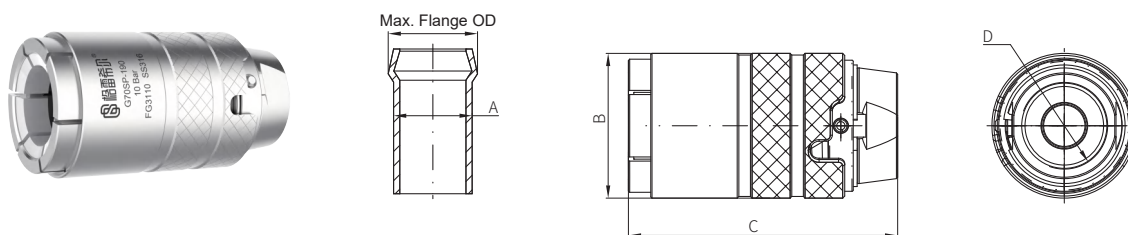
G70P CQC Male Connector (Grooved Tube) Damage-Free Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure	Material	Seal Material	Seal No.
G70P-122045	CQC14	3	30.4	80	BSPP1/4	10 Bar	316 SS	NBR	SG70P-122045
G70P-142065	CQC16	4	35.4	80	BSPP3/8	10 Bar	316 SS	NBR	SG70P-142065
G70P-162065	CQC18	4	35.4	80	BSPP3/8	10 Bar	316 SS	NBR	SG70P-162085
G70P-182085	CQC20	5	40.4	83	BSPP1/2	10 Bar	316 SS	NBR	SG70P-182085

G70SP Small-Body Damage-Free Quick Connector

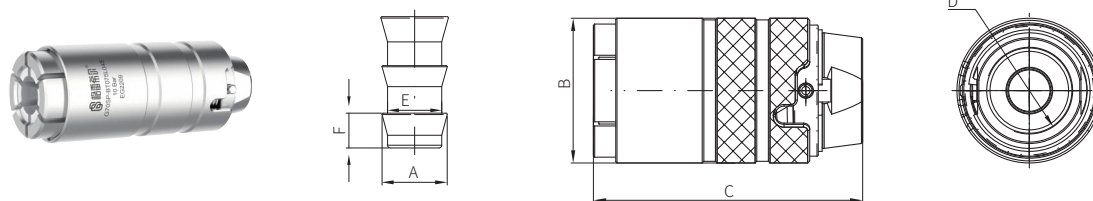
ONE-STOP CONNECTION

Damage-Free Locking | Manual Operation | Full Model Range | Polymer Materials | High Flow | OD Sealing |



G70SP Small-Body Damage-Free Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70SP-040	4.0	1SM	15.9	50.9	M8	10 Bar	316 SS	Neoprene	SG70SP-040
G70SP-050	5.0								SG70SP-050
G70SP-060	6.0								SG70SP-060
G70SP-070	7.0								SG70SP-070
G70SP-080	8.0	1S	20	51.9	BSPP1/8	10 Bar	316 SS	Neoprene	SG70SP-080
G70SP-090	9.0								SG70SP-090
G70SP-100	10.0								SG70SP-100
G70SP-110	11.0	2S	25	52.1	BSPP1/4	10 Bar	316 SS	Neoprene	SG70SP-110
G70SP-120	12.0								SG70SP-120
G70SP-130	13.0								SG70SP-130
G70SP-140	14.0								SG70SP-140
G70SP-160	16.0	3S	30	54	BSPP3/8	10 Bar	316 SS	Neoprene	SG70SP-160
G70SP-170	17.0								SG70SP-170
G70SP-180	18.0								SG70SP-180
G70SP-190	19.0	4S	35	65.1	BSPP1/2	10 Bar	316 SS	Neoprene	SG70SP-190
G70SP-200	20.0								SG70SP-200
G70SP-220	22.0								SG70SP-220
G70SP-230	23.0								SG70SP-230
G70SP-250	25.0	5S	40	66	BSPP1/2	10 Bar	316 SS	Neoprene	SG70SP-250
G70SP-260	26.0								SG70SP-270
G70SP-270	27.0								SG70SP-280
G70SP-280	28.0								SG70SP-300
G70SP-300	30.0	6S	45	65.3	BSPP3/4	10 Bar	316 SS	Neoprene	SG70SP-320
G70SP-320	32.0								SG70SP-330
G70SP-330	33.0								SG70SP-350
G70SP-350	35.0	7S	50	65.8	BSPP1	10 Bar	316 SS	Neoprene	SG70SP-360
G70SP-360	36.0								SG70SP-370
G70SP-370	37.0								SG70SP-380
G70SP-380	38.0								SG70SP-400
G70SP-400	40.0	8S	55	65.8	BSPP1	10 Bar	316 SS	Neoprene	SG70SP-420
G70SP-420	42.0								SG70SP-430



G70SP-BT Liquid Cooling Barbed Port

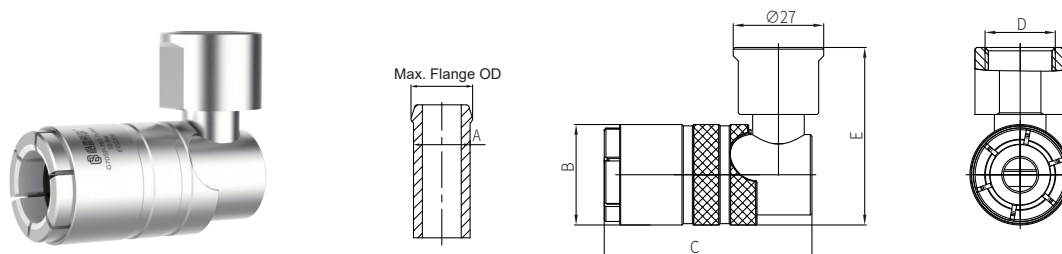
Model	Dim. A	Body No.	Dim. B	Dim. C	Dim. E	Dim. F	Fluid Thread D	Max. Pressure	Material	Seal Material	Seal No.
G70SP-BT075L045	7.5	1S	20	51.9	6.4	4.5	BSPP1/8"	10 Bar	Stainless	Neoprene	SG70SP-BT075L045
G70SP-BT087L048	8.7	1S	20	51.9	6.8	4.8	BSPP1/8"				SG70SP-BT087L048
G70SP-BT120L057	12.0	2S	25	52.1	9.9	5.7	BSPP1/4"				SG70SP-BT120L057
G70SP-BT150L053	15.0	3S	30	54	12.7	5.3	BSPP3/8"				SG70SP-BT150L053
G70SP-BT180L049	18.0	3S	30	54	15.9	4.9	BSPP3/8"				SG70SP-BT180L049

The models above are for illustration. For specific interface dimensions, please contact our sales team for the best solution.

G70SP Small-Body Damage-Free Quick Connector

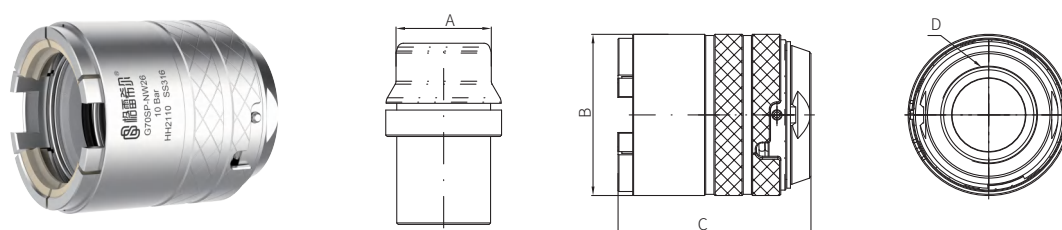
ONE-STOP CONNECTION

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G70SP-TL Small-Body Damage-Free Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Thread Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70SP-060-TL025	6.00	1S	20	60	BSPP1/8	10 Bar	316 SS	Neoprene	SG70SP-060-TL025
G70SP-070-TL025	7.00								SG70SP-070-TL025
G70SP-080-TL025	8.00								SG70SP-080-TL025
G70SP-090-TL025	9.00								SG70SP-090-TL025
G70SP-100-TL025	10.00								SG70SP-100-TL025
G70SP-110-TL045	11.00	2S	25	60	BSPP1/4	10 Bar	316 SS	Neoprene	SG70SP-110-TL045
G70SP-120-TL045	12.00								SG70SP-120-TL045
G70SP-130-TL045	13.00								SG70SP-130-TL045
G70SP-140-TL045	14.00								SG70SP-140-TL045
G70SP-150-TL085	15.00	3S	30	62	BSPP1/2	10 Bar	316 SS	Neoprene	SG70SP-150-TL085
G70SP-160-TL085	16.00								SG70SP-160-TL085
G70SP-170-TL085	17.00								SG70SP-170-TL085
G70SP-180-TL085	18.00								SG70SP-180-TL085
G70SP-190-TL085	19.00	4S	35	73	BSPP1/2	10 Bar	316 SS	Neoprene	SG70SP-190-TL085
G70SP-200-TL085	20.00								SG70SP-200-TL085
G70SP-210-TL085	21.00								SG70SP-210-TL085
G70SP-220-TL085	22.00								SG70SP-220-TL085



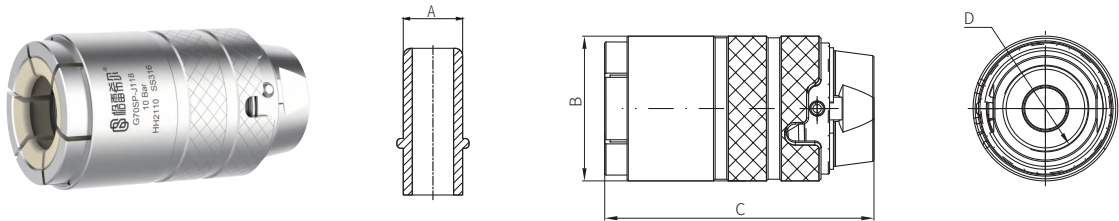
G70SP-NW Interface (Four-Segment Jaw) Straight-Through

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70SP-NW6	10.40	3S	30	54	BSPP3/8	10 Bar	316 SS	NBR	SG70SP-NW6
G70SP-NW8	12.40								SG70SP-NW8
G70SP-NW12	16.30								SG70SP-NW12
G70SP-NW14	17.50	4S	35	65.1	BSPP1/2	10 Bar	316 SS	NBR	SG70SP-NW14
G70SP-NW14US	19.15								SG70SP-NW14US
G70SP-NW16	22.30								SG70SP-NW16
G70SP-NW18	23.75	6S	45	65.3	BSPP3/4	10 Bar	316 SS	NBR	SG70SP-NW18
G70SP-NW20	26.30								SG70SP-NW20
G70SP-NW26	32.50	8S	55	65.8	BSPP1	10 Bar	316 SS	NBR	SG70SP-NW26

G70SP Small-Body Damage-Free Quick Connector

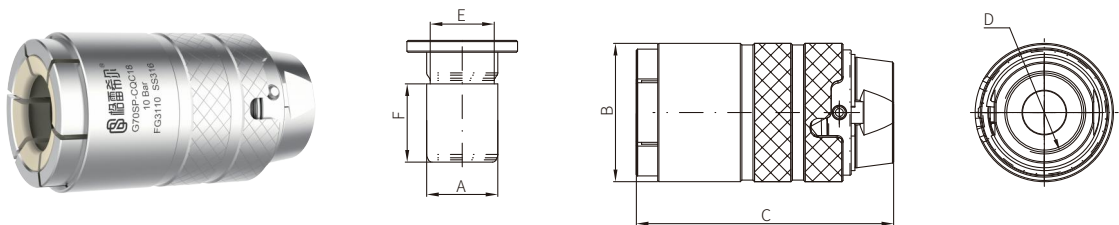
ONE-STOP CONNECTION

Damage-Free Locking | Manual Operation | Full Model Range | Polymer Materials | High Flow | OD Sealing |



Fuel Line Connector - Compliant with J2044

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70SP-J063	6.30±0.06	2S	25	52.1	BSPP1/4	10 Bar	316 SS	NBR	SG70SP-J063
G70SP-J079	7.89±0.06								SG70SP-J079
G70SP-J095	9.49±0.06								SG70SP-J095
G70SP-J099	9.89±0.06								SG70SP-J099
G70SP-J118	11.80±0.10	3S	30	54	BSPP3/8	10 Bar	316 SS	NBR	SG70SP-J118
G70SP-J126	12.61±0.10								SG70SP-J126
G70SP-J158	15.82±0.10	4S	35	65.1	BSPP1/2	10 Bar	316 SS	NBR	SG70SP-J158
G70SP-J189	18.90±0.10								SG70SP-J189
G70SP-J227	22.70±0.15	5S	40	66	BSPP1/2	10 Bar	316 SS	NBR	SG70SP-J227
G70SP-J255	25.50±0.15								SG70SP-J255



G70SP-CQC Damage-Free Small-Body Connector

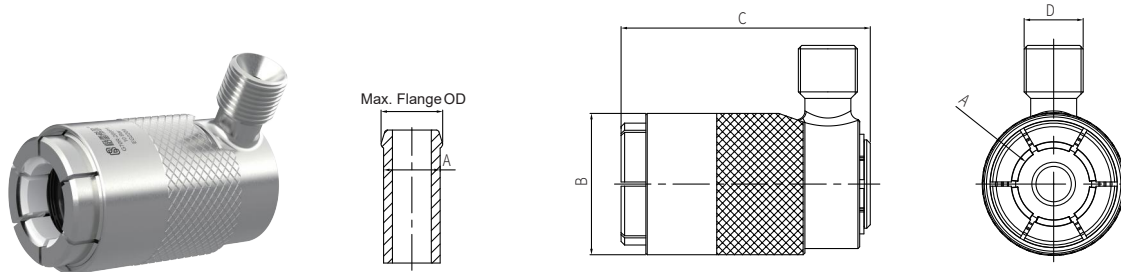
Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Dim. E	Dim. F	Max. Pressure	Material	Seal Material	Seal No.
G70SP-CQC10	10.0	1S	20.0	52.0	BSPP1/8	8.0	17.5	10Bar	316 SS	NBR	SG70SP-CQC10
G70SP-CQC14	14.0	2SM	27.0	56.4	BSPP3/8	12.2	18.3	10Bar	316 SS	NBR	SG70SP-CQC14
G70SP-CQC16	16.0	3S	30.0	54.0	BSPP3/8	14.2	16	10Bar	316 SS	NBR	SG70SP-CQC16
G70SP-CQC18	18.0	4S	35.0	65.1	BSPP1/2	16.5	19.8	10Bar	316 SS	NBR	SG70SP-CQC18
G70SP-CQC20	20.0	4S	35.0	65.1	BSPP1/2	18.2	19.9	10Bar	316 SS	NBR	SG70SP-CQC20

G70RP

Rotating Sleeve Damage-Free Quick Connector

ONE-STOP CONNECTION

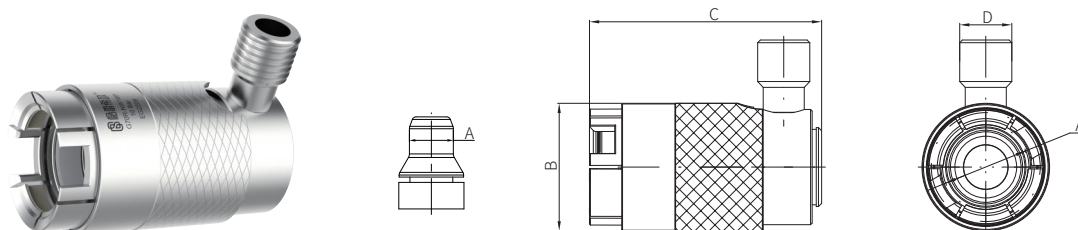
Damage-Free Locking | Manual Operation | Full Model Range | Polymer Materials | High Flow | OD Sealing |



G70RP Damage-Free Short Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70R-160PK	16.0	4R	35.4	73	BSPP3/8	10 Bar	316 SS	Neoprene	SG70R-160PK
G70R-160PKHF10	16.0								SG70R-160PKHF10
G70R-160PK-TN085	16.0								SG70R-160PK-TN085
G70R-200PK	20.0	5R	40.4	71	BSPP3/8	10 Bar	316 SS	Neoprene	SG70R-200PK
G70R-200PKHF10	20.0								SG70R-200PKHF10
G70R-200PK-TN085	20.0								SG70R-200PK-TN085
G70R-J158PK	15.8	4R	35.4	73	BSPP3/8	10 Bar	316 SS	NBR	SG70R-J158PK
G70R-J158PKHF10	15.8								SG70R-J158PKHF10
G70R-J158PK-TN085	15.8								SG70R-J158PK-TN085

* Other fluid port specifications are available, including BSPP1/2 female thread, BSPP3/8 male flat port and barbed fittings. Please enquire.



G70RP NW Interface (Four-Segment Jaw) L-Type Rotating Sleeve

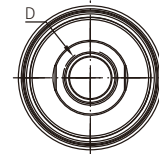
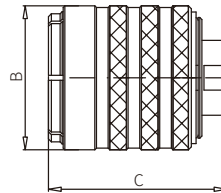
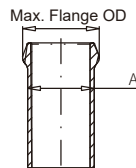
Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Material	Seal Material	Seal No.
G70R-NW12P	16.30	4RS	35.4	75	BSPP3/8	10 Bar	316 SS	NBR	SG70R-NW12P
G70R-NW16P	22.30	5RS	40.4	75	BSPP3/8	10 Bar	316 SS	NBR	SG70R-NW16P

G70NP

Mini Damage-Free Quick Connector

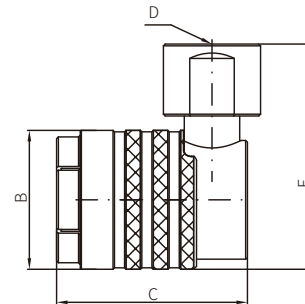
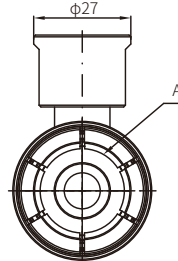
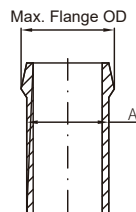
ONE-STOP CONNECTION

Damage-Free Locking | Manual Operation | Full Model Range | Polymer Materials | High Flow | OD Sealing |



G70NP Damage-Free Mini Quick Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Max. Pressure*	Jaw Material	Seal Material	Seal No.
G70NP-080	8.0	2N	24.7	43	BSPP1/4	10 Bar	Polymer	Neoprene	SG70NP-080
G70NP-100	10.0								SG70NP-100
G70NP-110	11.0								SG70NP-120
G70NP-160	16.0								SG70NP-160
G70NP-170	17.0	4N	34.6	43	BSPP1/4	10 Bar	Polymer	Neoprene	SG70NP-170
G70NP-180	18.0								SG70NP-180
G70NP-190	19.0								SG70NP190
G70NP-200	20.0								SG70NP-200
G70NP-220	22.0	5N	38.6	48	BSPP1/4	10 Bar	Polymer	Neoprene	SG70NP-220
G70NP-230	23.0								SG70NP-230



G70NP-TL Damage-Free Mini Quick Connector

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Dim. E	Max. Pressure	Material	Seal Material	Seal No.
G70NP-080-TL025	8.0	2N	19.8	43.7	BSPP1/8	30.9	10 Bar	316 SS	Neoprene	SG70N-080-TL025
G70NP-100-TL025	10.0									SG70N-100-TL025
G70NP-110-TL025	11.0									SG70N-110-TL025
G70NP-160-TL085	16.0									SG70N-160-TL085
G70NP-170-TL085	17.0	4N	34.6	46.8	BSPP1/2	56.8	10 Bar	316 SS	Neoprene	SG70N-170-TL085
G70NP-180-TL085	18.0									SG70N-180-TL085
G70NP-190-TL085	19.0									SG70N-190-TL085
G70NP-200X-TL085	20.0									SG70N-200-TL085
G70NP-220-TL085	22.0	5N	38.6	48		62.5				SG70N-220-TL085
G70NP-230X-TL085	23.0									SG70N-230-TL085