

G80 Female Threaded Quick Connector

Instant | Easy | Standard | Premium |

ONE-STOP CONNECTION

The G80 series connector is designed for female threads and is widely used for plugging and connecting all kinds of threaded ports, such as high-pressure testing of automotive parts, leak testing and housing plugging of new energy motor controllers. Various drive options suit manual and pneumatic applications.



Female Thread Connection Solution

- * Face seal, easy to replace
- * Handle lever operation, simple
- * Various drive options for different scenarios
- * Customisable neck length to avoid interference

G80 Series Quick Connector Features

1. Modular drive

Three operation modes - pneumatic, push-button valve and lever - meet the requirements of every application.

2. O-ring sealing

Simple and reliable, easy to replace, low maintenance cost and a choice of O-ring material for different fluids.

3. 316 stainless steel construction

Excellent mechanical properties: strong and wear-resistant, greatly extending connector service life.

4. Optional neck length

Common models offer three neck lengths to clear obstructions and avoid interference.

5. Standardised maintenance

Modular internal structure, replaced as one unit, for simple repair

Selected Models



Handle Drive



Push-Button Drive



Pneumatic Drive

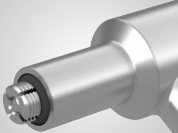
G80

Female Threaded Quick Connector

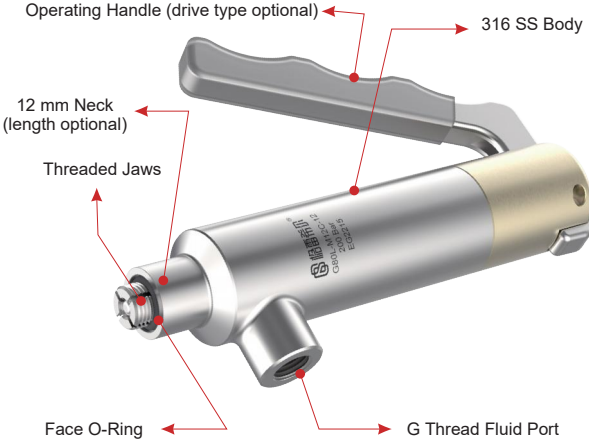
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G80 Quick Connector Advantages and Features

 Female threaded port: Expanding threaded jaws grip with minimal damage to the thread	 Modular drive: Meets customer requirements for manual and pneumatic operation	 Customisable neck length: avoids interference	 Flow Port: Some jaws have additional flow holes to shorten test time	 Face O-Ring: simple replacement, easy maintenance
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G80 Quick Connector Specifications



Max. Op. Pressure	Vacuum to 350 Bar
Sealing Range	See the relevant selection table
Min. Thread Depth	See the relevant selection table
Flow Port	BSPP1/8, BSPP1/4, BSPP3/8, BSPP1/2
Material	316 Stainless
Main Seal	NBR
Inner Seal	NBR / FKM
Operating Temp.	-20 °C to +120 °C

G80 Operation Demo



Step 1: Press the handle down



Step 2: Insert into the threaded ter



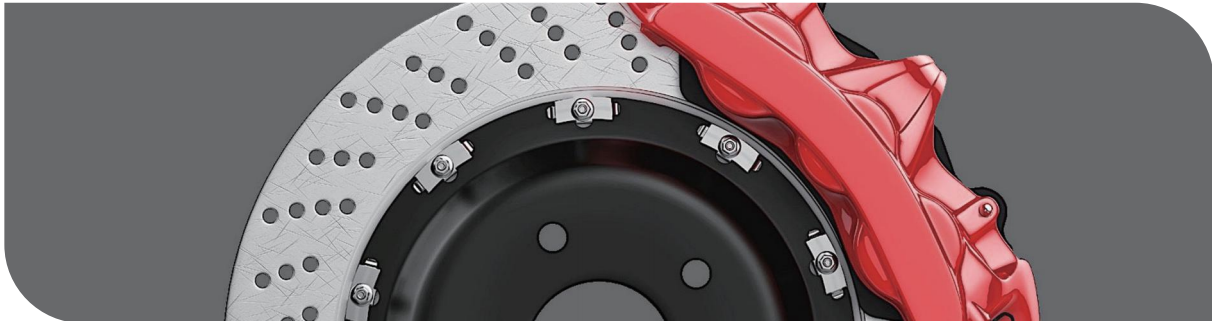
3: Release the handle to complete the connection

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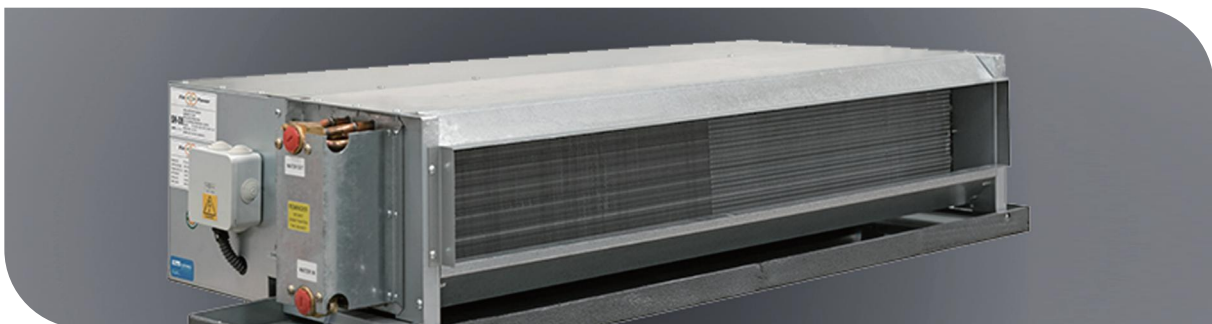
Application Cases



Brake Caliper



Motor Controller Housing



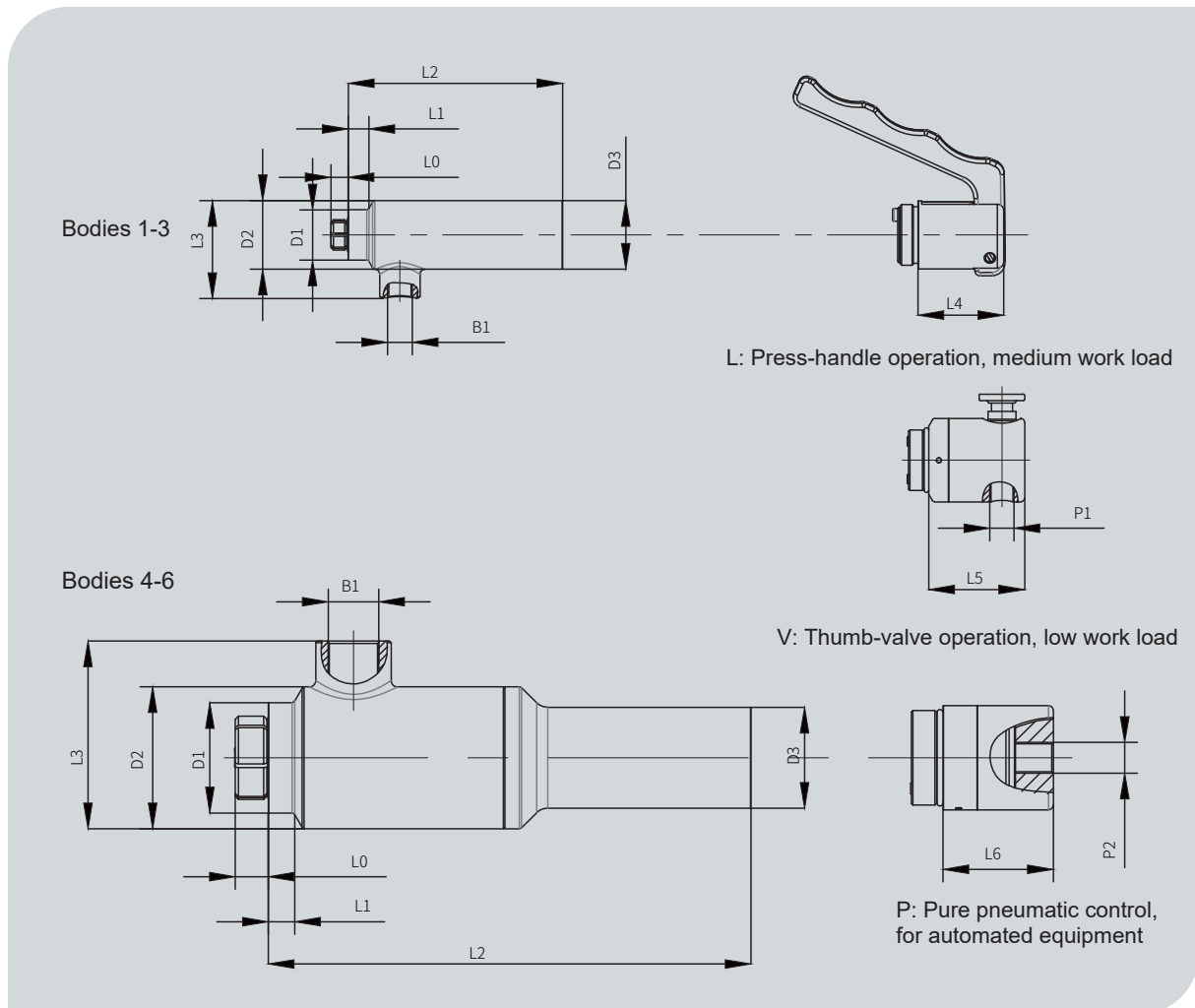
Air-Conditioning Industry

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Modular drive options: handle drive G80L, pneumatic drive G80P and push-button drive G80V. They are interchangeable to reduce retrofit cost, and customised service is available.



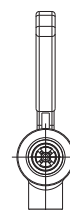
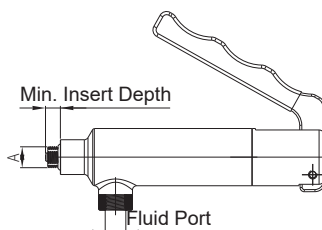
Body No.	B1 (Media Port)	D1	D2	D3	L0	L1	L2	L3	L4	L5	L6
1	BSPP1/8"	16	27	27	7	6.5	85	38.5	34	38	32
1A	BSPP1/8"	16	27	27	7	12.5	90	38.5	34	38	32
1B	BSPP1/8"	16	27	27	7	25.5	105	38.5	34	38	32
2	BSPP1/8"	20	27	27	7.5	6.5	85	38.5	34	38	32
2A	BSPP1/8"	20	27	27	7.5	12.5	90	38.5	34	38	32
2B	BSPP1/8"	20	27	27	7.5	25.5	110	38.5	34	38	32
3	BSPP1/4"	25	32	32	10	9.5	100	46	35	41	35
4	BSPP1/4"	30	38	32	11.5	8.5	123	54	35	41	35
5	BSPP3/8"	35	45	32	12	7.5	153	60	35	41	35
6	BSPP3/8"	40	50	32	12	7.5	153	67	35	41	35

Unit: mm

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G80 Metric M Thread Specification Table

Model	Female Thread Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.	
G80L-M8C	M8x1.0	1	7	BSPP1/8	200 Bar	316 SS	NBR	SG80L-M8C	
G80L-M8D	M8x1.25	1						SG80L-M8D	
G80L-M10C	M10 x 1.0	1						SG80L-M10C	
G80L-M10D	M10 x 1.25	1						SG80L-M10D	
G80L-M10E	M10 x 1.5	1						SG80L-M10E	
G80L-M10C-12	M10 x 1.0	1A*						SG80L-M10C-12	
G80L-M10D-12	M10 x 1.25	1A						SG80L-M10D-12	
G80L-M10E-12	M10 x 1.5	1A						SG80L-M10E-12	
G80L-M10C-25	M10 x 1.0	1B*						SG80L-M10C-25	
G80L-M10D-25	M10 x 1.25	1B						SG80L-M10D-25	
G80L-M10E-25	M10 x 1.5	1B						SG80L-M10E-25	
G80L-M12C	M12 x 1.0	2	7.5					SG80L-M12C	
G80L-M12D	M12 x 1.25	2						SG80L-M12D	
G80L-M12E	M12 x 1.5	2						SG80L-M12E	
G80L-M12C-12	M12 x 1.0	2A*						SG80L-M12C-12	
G80L-M12D-12	M12 x 1.25	2A						SG80L-M12D-12	
G80L-M12E-12	M12 x 1.5	2A						SG80L-M12E-12	
G80L-M12C-25	M12 x 1.0	2B*						SG80L-M12C-25	
G80L-M12D-25	M12 x 1.25	2B						SG80L-M12D-25	
G80L-M12E-25	M12 x 1.5	2B						SG80L-M12E-25	
G80L-M14C	M14x1.0	2		10				BSPP1/4	SG80L-M14C
G80L-M14D	M14x1.25	2							SG80L-M14D
G80L-M14E	M14x1.5	2	SG80L-M14E						
G80L-M16B	M16x0.8	3	SG80L-M16B						
G80L-M16C	M16x1.0	3	SG80L-M16C						
G80L-M16E	M16x1.5	3	SG80L-M16E						
G80L-M18E	M18x1.5	3	11.5	SG80L-M18E					
G80L-M20E	M20x1.5	4		SG80L-M20E					
G80L-M22E	M22x1.5	4	12	BSPP3/8				SG80L-M22E	
G80L-M24E	M24x1.5	5						SG80L-M24E	
G80L-M26E	M26x1.5	5	12					SG80L-M26E	
G80L-M27F	M27x2.0	5						SG80L-M27F	
G80L-M28E	M28x1.5	6						SG80L-M28E	
G80L-M30E	M30x1.5	6						SG80L-M30E	
G80L-M33F	M33x2.0	6						SG80L-M33F	

1. Other thread specifications can be customised on request, up to 2 inch. 2.

Bodies 1A and 2A have a neck length of 12.5 mm.

3. Bodies 1B and 2B have a neck length of 25.5 mm, suitable for position-restricted applications.

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G80 Pipe Thread Specification Table

Model	Female Thread Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80L-G01	BSPP1/8"	1	7	BSPP1/8	200 Bar	316 SS	NBR	SG80-01
G80L-G02	BSPP1/4"	2	7.5					SG80-02
G80L-G03	BSPP3/8"	3	10	BSPP1/4				SG80-03
G80L-G04	BSPP1/2"	4	11.5					SG80-04
G80L-G06	BSPP3/4"	5	12	BSPP3/8				SG80-06
G80L-G08	BSPP1"	6	12					SG80-08

G80 Taper Pipe Thread Specification Table

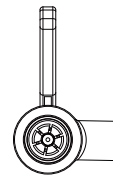
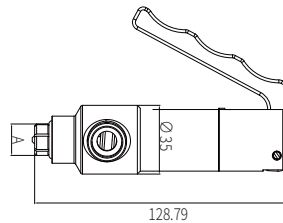
Model	Female Thread Dim. A	Body No	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80L-R01	R1/8" (BSPT)	1	7	BSPP1/8	200 Bar	316 SS	NBR	SG80-01
G80L-R02	R1/4" (BSPT)	2	7.5					SG80-02
G80L-R03	R3/8" (BSPT)	3	10	BSPP1/4				SG80-03
G80L-R04	R1/2" (BSPT)	4	11.5					SG80-04
G80L-R06	R3/4" (BSPT)	5	12	BSPP3/8				SG80-06
G80L-R08	R1" (BSPT)	6	12					SG80-08

G80 US Taper Pipe Thread - NPT Specification Table

Model	Female Thread Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80L-N01	NPT1/8"	1	7	BSPP1/8	200 Bar	316 SS	NBR	SG80-01
G80L-N02	NPT1/4"	2	7.5					SG80-02
G80L-N03	NPT3/8"	3	10	BSPP1/4				SG80-03
G80L-N04	NPT1/2"	4	11.5					SG80-04
G80L-N06	NPT3/4"	5	12	BSPP3/8				SG80-06
G80L-N08	NPT1"	6	12					SG80-08

G80 US Fine Thread - UNF Specification Table

Model	Female Thread Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80L-U02	UNF5/16-24	1	7	BSPP1/8	200 Bar	316 SS	NBR	SG80-UN02
G80L-U03	UNF3/8-24	1	7					SG80-UN03
G80L-U04	UNF7/16-20	2	7.5					SG80-UN04
G80L-U05	UNF1/2-20	2	7.5					SG80-UN05
G80L-U06	UNF9/16-18	2	7.5	BSPP1/4				SG80-UN06
G80L-U08	UNF3/4-16	4	1.5					SG80-UN08
G80L-U10	UNF 7/8-14	4	1.5					SG80-UN10
G80L-U12	UNF 1-1/16-12	5	12					SG80-UN12
G80L-U14	UNF1-3/16-12	6	12	BSPP3/8				SG80-UN14
G80L-U16	UNF 1-5/16-12	6	12					SG80-UN16



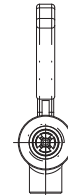
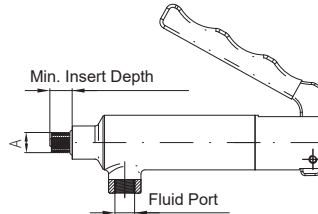
G80S Short Low-Pressure Version

Model	Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80L-M16ES	M16*1.5	3S	10	BSPP3/8"	50 Bar	316 SS	NBR	SG80-M16
G80L-M18ES	M18*1.5	3S	10	BSPP3/8"				SG80-M18
G80L-G03S	BSPP3/8"	3S	10	BSPP3/8"				SG80-G03
G80L-R03S	BSPT3/8"	3S	10	BSPP3/8"				SG80-R03

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G80HL Long-Jaw Metric M Thread Specification Table

Model	Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80HL-M10C	M10X1.0	1	10.5	BSPP1/8	350 Bar	316 SS	NBR	SG80HL-M10C
G80HL-M10C-12	M10X1.0	1A	9	BSPP1/8				SG80HL-M10C-12
G80HL-M10C-25	M10X1.0	1B	10	BSPP1/8				SG80HL-M10C-25
G80HL-M10E-12	M10X1.5	1A	9.2	BSPP1/8				SG80HL-M10E-12
G80HL-M12C	M12X1.0	2	11.75	BSPP1/8				SG80HL-M12C
G80HL-M12C-12	M12X1.0	2A	11.75	BSPP1/8				SG80HL-M12C-12
G80HL-M12D	M12X1.25	2	11.75	BSPP1/8				SG80HL-M12D
G80HL-M12D-12	M12X1.25	2A	11.75	BSPP1/8				SG80HL-M12D-12
G80HL-M12E-12	M12X1.5	2A	11.75	BSPP1/8				SG80HL-M12E-12
G80HL-M14E-12	M14X1.5	2A	11.25	BSPP1/8				SG80HL-M14E-12
G80HL-M16E	M16X1.5	3	12.5	BSPP1/4				SG80HL-M16E
G80HL-M18E	M18X1.5	3	12.5	BSPP1/4				SG80HL-M18E
G80HL-M20E	M20X1.5	4	12.8	BSPP1/4				SG80HL-M20E

G80HL Long-Jaw Pipe Thread Specification Table

Model	Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80HL-G02	BSPP1/4	2	14.7	BSPP1/8	350 Bar	316 SS	NBR	SG80HL-G02
G80HL-G03	BSPP3/8	3	12.5	BSPP1/4				SG80HL-G03
G80HL-G04	BSPP1/2	4	12.8	BSPP1/4				SG80HL-G04

G80HL Long-Jaw UNF Fine Thread Specification Table

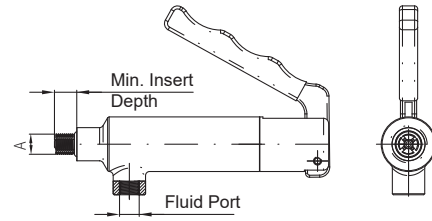
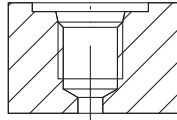
Model	Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80HL-U06	1/2-20UN	3	11.5	BSPP1/4	350 Bar	316 SS	NBR	SG80HL-U06
G80HL-U12	1 1/16-12UN	5	14.76	BSPP3/8				SG80HL-U12

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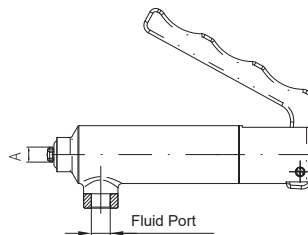


G80L Long-Jaw Metric M Thread Specification Table (ISO 6149-1)

Model	Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80L-M12E-6149	M12X1.5	2	11.75	BSPP1/8	350 Bar	316 SS	NBR	SG80L-M12E-6149
G80L-M14E-6149	M14X1.5	2	11.25	BSPP1/8				SG80L-M14E-6149
G80L-M16E-6149	M16X1.5	3	12.5	BSPP1/4				SG80L-M16E-6149
G80L-M18E-6149	M18X1.5	3	12.5	BSPP1/4				SG80L-M18E-6149
G80L-M20E-6149	M20X1.5	4	12.8	BSPP1/4				SG80L-M20E-6149
G80L-M22E-6149	M22X1.5	4	12.8	BSPP1/4				SG80L-M22E-6149
G80L-M27F-6149	M27X2.0	5	13	BSPP3/8				SG80L-M27F-6149

G80L Long-Jaw UNF Fine Thread Specification Table (ISO 11926-1)

Model	Dim. A	Body No.	Min. Insert Depth	Fluid Port	Max. Pressure	Material	Seal Material	Seal No.
G80L-U05-6149	UNF1/2-20	2	11.75	BSPP1/8	350 Bar	316 SS	NBR	SG80L-U05-6149
G80L-U06-6149	UNF9/16-18	2	11.75	BSPP1/8				SG80L-U06-6149
G80L-U08-6149	UNF3/4-16	4	12.8	BSPP1/4				SG80L-U08-6149
G80L-U10-6149	UNF 7/8-14	4	12.8	BSPP1/4				SG80L-U10-6149
G80L-U12-6149	UNF 1-1/16-12	5	13	BSPP3/8				SG80L-U12-6149



G80L-T Thin-Wall Bore Connector

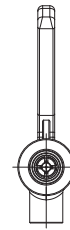
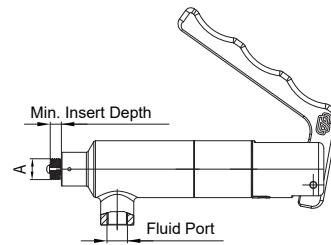
Model	Dim. A	Body No.	Thin-Wall Plate Thickness Range	Fluid Port	Max Pressure	Material	Seal No.
G80L-T065	6.5	1	0.5-4	BSPP1/8	10Bar	Stainless	SG80-T065
G80L-T090	9	1	0.5-4	BSPP1/8			SG80-T090
G80L-T10-12	10	1A	0.5-4	BSPP1/8			SG80-T10
G80L-T105-12	10.5	1A	0.5-4	BSPP1/8			SG80-T105

G80R

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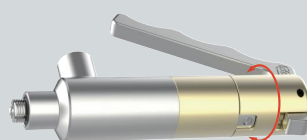


G80R Adjustable Rear End Specification Table

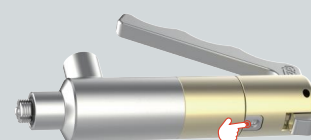
Model	Dim. A	Body No.	Min. Insert Depth	Dim. B	Max. Pressure	Material	Seal Material	Seal No.
G80R-M10C	M10X1.0	1	7	BSPP 1/8	200 Bar	Stainless	NBR	SG80R-M10C
G80R-M10D	M10X1.25	1		BSPP 1/8				SG80R-M10D
G80R-M10E	M10X1.5	1		BSPP 1/8				SG80R-M10E
G80R-M10C-12	M10X1.0	1A		BSPP 1/8				SG80R-M10C-12
G80R-M10D-12	M10X1.25	1A		BSPP 1/8				SG80R-M10D-12
G80R-M10E-12	M10X1.5	1A		BSPP 1/8				SG80R-M10E-12
G80R-M10C-25	M10X1.0	1B		BSPP 1/8				SG80R-M10C-25
G80R-M10D-25	M10X1.25	1B		BSPP 1/8				SG80R-M10D-25
G80R-M10E-25	M10X1.5	1B		BSPP 1/8				SG80R-M10E-25
G80R-M12C	M12X1.0	2	7.5	BSPP 1/4	200 Bar	Stainless	NBR	SG80R-M12C
G80R-M12D	M12X1.25	2		BSPP 1/4				SG80R-M12D
G80R-M12E	M12X1.5	2		BSPP 1/4				SG80R-M12E
G80R-M12C-12	M12X1.0	2A		BSPP 1/4				SG80R-M12C-12
G80R-M12D-12	M12X1.25	2A		BSPP 1/4				SG80R-M12D-12
G80R-M12E-12	M12X1.5	2A		BSPP 1/4				SG80R-M12E-12
G80R-M12C-25	M12X1.0	2B		BSPP 1/4				SG80R-M12C-25
G80R-M12D-25	M12X1.25	2B		BSPP 1/4				SG80R-M12D-25
G80R-M12E-25	M12X1.5	2B		BSPP 1/4				SG80R-M12E-25
G80HR-M10C	M10X1.0	1	10.5	BSPP 1/8	350 Bar	Stainless	NBR	SG80HR-M10C
G80HR-M10D	M10X1.25	1		BSPP 1/8				SG80HR-M10D
G80HR-M10E	M10X1.5	1		BSPP 1/8				SG80HR-M10E
G80HR-M10C-12	M10X1.0	1A	9	BSPP 1/8				SG80HR-M10C-12
G80HR-M10D-12	M10X1.25	1A		BSPP 1/8				SG80HR-M10D-12
G80HR-M10E-12	M10X1.5	1A		BSPP 1/8				SG80HR-M10E-12
G80HR-M10C-25	M10X1.0	1B	10	BSPP 1/8				SG80HR-M10C-25
G80HR-M10D-25	M10X1.25	1B		BSPP 1/8				SG80HR-M10D-25
G80HR-M10E-25	M10X1.5	1B		BSPP 1/8				SG80HR-M10E-25



1. Press the locking button;
the handle can then be rotated



2. Rotate the handle to a suitable position



3. Release the handle button to fix the position