



BE-LOK INSTRUMENT FITTING
INC

SWIVEL GAUGE ADAPTERS

100% Factory Tested For Both Crack & Reseal



Engineering Expertise

@ www.be-lok.com

Introduction

BE-LOK INSTRUMENT FITTINGS INC. A fast-growing manufacturing company spread across an area of 5500 m² (Meters Squared). We are having experience and expertise with advanced technology in design, development and production of high-quality fittings and valves for Instrumentation, Hydraulic, Chemical Injection and Oil & Gas Applications.

We are having state of the art manufacturing facility. We use the Latest manufacturing technologies for highest precision and lowest tolerance. Our well-equipped Manufacturing and Testing facilities is most comprehensive, technically advanced and system oriented.

We manufacture all our products in our own manufacturing facilities under strict quality assurance procedure.

Our products are in line with international specification requirements in quality, safety, consistency and reliability apart from the competitive price. We ensure that our products are quality checked before being shipped to our clients' location.

We are recognised by International Quality Management Systems & Certified by ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, PED 2014/68/EU, ASTM F1387-19, Interchangeability Test Report, MSS-SP-99-2016a etc.

As we are having 20% Market in Domestic Areas and have a 80% hold in international market.

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General Information

BE-LOK Swivel Gauge Adapters are designed to provide 360° rotation of the measurement equipment and to insure the most convenient positioning of the installed sensors, pressure gauges and other measuring instruments. Design of the sealing mechanism ensures that the system is completely sealed at a maximum operating pressure of 10,000 psi (689 bar). Silver-plated, stainless-steel swivel nut threads and sealing area prevent thread galling and provide a trouble-free multiple assembly-disassembly of the connector. The use of swivel gauge adapters is possible with multi-port gauge valves and manifolds to ensure correct positioning of pressure gauges and other measuring instruments.

Technical Characteristics

Connection Sizes	1/2" and M20 x 1.5
Type of Thread	NPT, BSPT / ISO Tapered, BSPP / ISO Parallel
Materials	SS 316, SS 316L, Alloy 400 (Monel 400), Alloy 600 (Inconel 600), Alloy 625, Alloy 825, Alloy C-276 (Hastalloy C-276), Duplex S32205, Super Duplex S32750, 6Mo (S31254)
Maximum Working Pressure	6,000 psi (414 bar) / 10,000 psi (689 bar) Optional
Maximum Working Temperature	538° C (1000°F) without O-ring 538° C (1000°F) with Graphoil O-ring 260° C (500°F) with PTFE O-ring

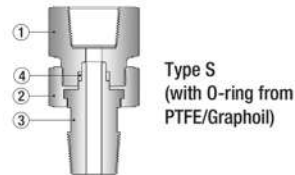
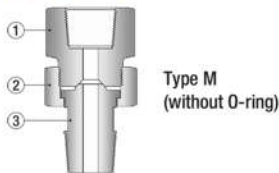
Features

- ✔ Universal design with different sizes and types of threads.
- ✔ Wide choice of materials.
- ✔ 360° positioning of the pressure gauge facilitates easy readings.
- ✔ Silver plated threads and bearing surface of the adapter to prevent threads galling.
- ✔ Wide Choice of thread types.
- ✔ Compact design.
- ✔ Leak-free sealing mechanism.
- ✔ Heat code traceability.
- ✔ EN 10204 Type 3.1B test certificates are supplied with materials
- ✔ Also available in materials compliant to NACE MR0175 / ISO 15153

Assembly Instruction

- ✔ Mount the adapter on the Pipeline from the side of technological connection.
- ✔ Connect the pressure gauge with the adapter using wrenches and sealing material for tapered thread or O-rings for cylindrical threads.
- ✔ Fix the pressure gauge on the technological connection by installing it in most convenient position for readings.
- ✔ Holding a wrench on the connector tighten the union nut.
- ✔ The dial of the pressure gauge shall remain in the desired position for easier access to readings.

Materials of Construction



No.	Part	Material	Qty.
1	Instrument Connector	ASTM A479-316 SS	1
2	Swivel Nut	ASTM A479-316 SS	1
3	Process Connector	ASTM A479-316 SS	1

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1	Instrument Connector	ASTM A479-316 SS	1
2	Swivel Nut	ASTM A479-316 SS	1
3	Process Connector	ASTM A479-316 SS	1
4	O-ring	PTFE / Graphoil	1

Types of End Connections

Connection	Type of Threads	Size
Female	Male NPT	1/2"
	Male BSPT / ISO Tapered	
	Male BSPP / ISO Parallel	
	Male Metric	M20 x 1.5
Male	Male NPT	1/2"
	Female NPT	
	Male BSPT / ISO Tapered	
	Female BSPP / ISO Tapered	
	Male BSPP / ISO Parallel	
	Female BSPP / ISO Parallel	
	Male Metric	M20 x 1.5
	Female Metric	

Types of Threads

Threads	Standard
NPT	ASME B1 . 20.1
BSPT / ISO Tapered	BS 21, ISO 7/1, EN 10226-1
BSPP / BSP Parallel	BS 2779, ISO 228-1
Metric M20 x 1.5	ASME B1 .13M, ISO 261

Materials

Material	Class	Designation to ASTM	Equivalent to EN
Stainless Steel	ASTM A479-316 SS	SS	EN 10222-5 Grade 1,4401
	ASTM A479-316 SS	SSL	EN 10222-5 Grade 1,4404
	ASTM A479 S31254 (6Mo)	6Mo	EN 10222-5 Grade 1,4547
Alloys Duplex & Supper	ASTM A479 S32205 (Duplex)	DS	EN 10222-5 Grade 1,4462
	ASTM A479 S32705 (Super Duplex)	SDS	EN 10222-5 Grade 1,4410
Nickel-Based Alloys	ASTM B164 N04400 (Alloy 400- Monel)	MO	EN 10222-5 Grade 2.4360
	ASTM B166 N06600 (Alloy 600- Inconel)	INC	EN 10222-5 Grade 2.4816
	ASTM B446 N06625 (Alloy 625)	A625	DIN 17752 Grade 2.4856
	ASTM B425 N08825 (Alloy 825)	A825	DIN 17752 Grade 2.4858
	ASTM B574 N10276 (Hastalloy C-276)	HC	DIN 17752 Grade 2.4819

Safety

For safe operation of **BE-LOK** swivel gauge adapters they shall be adequately selected. When choosing materials operating conditions, compatibility of materials, purpose and product specifications shall be considered. Installation and maintenance of product shall be carried out by qualified personnel. Wrong selection, poor installation

BE-LOK provides a guarantee for all manufactured products, however, the company does not bear responsibility for improper selection, installation, operation and technical maintenance of the delivered products.

Ordering Information

Stainless Steel 316 is standard material for swivel gauge adapters. To order a product from a different material, replace "SS" in part number with required designation according to ASTM, indicated in the table "Materials of manufacture" on the previous page (in the table, ASTM designations are in bold). For example, **BSGA-8N-M0**.

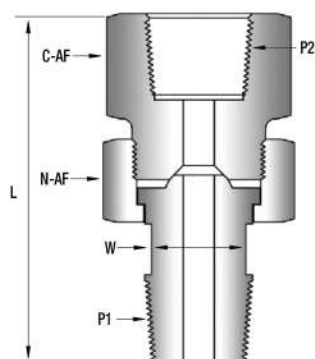
For ordering the swivel gauge adapters with a maximum working pressure of 10,000 psi (689 bar), add "10K" at the end of the part number. For example, **BSGA-8N-SS-10K**.

Standard seal for swivel S-type gauge adapters is PTFE. For Graphoil seals for high temperature application, use "HT" at the end of the part number. For example, **BSGA-8N-SS-S-HT**.

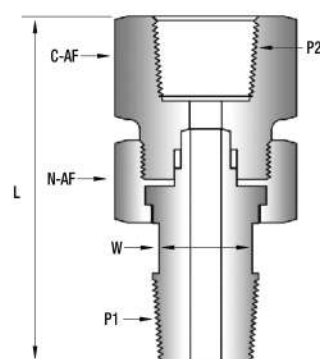
Add "SG" to the part number to order NACE MR0175 / ISO 15156 compliant material. For example, **BSGA-8N-SS-10K-SG**.

Continuous product improvement can lead to changes in this catalogue. **BE-LOK** reserves the right to make such changes at its discretion and without prior notifications.

Type of Connections & Sizes



Type M



Type S

Type	Part Number	P1 (Inlet)	P2 (Outlet)	L	W	N-A/F	C-A/F
Type M Standard Sealing Metal to Metal (Without O-ring)	BSGA-8N-SS	1/2" NPT Male	1/2" NPT Female	69	3/4"	1-1/4"	1-1/4"
	BSGA-8N-SS-MM	1/2" NPT Male	1/2" NPT Female	73	3/4"	1-1/4"	1-1/4"
	BSGA-8N-SS	1/2" BSPP Male	1/2" NPT Male	73	3/4"	1-1/4"	1-1/4"
	BSGA-8G-SS-MM	1/2" BSPP Male	1/2" NPT Male	77	3/4"	1-1/4"	1-1/4"
	BSGA-8R-SS	1/2" BSPT Male	1/2" NPT Female	69	3/4"	1-1/4"	1-1/4"
	BSGA-8R-SS-MM	1/2" BSPT Male	1/2" NPT Female	73	3/4"	1-1/4"	1-1/4"
	BSGA-M20-SS	M20 x 1.5 Male	1/2" NPT Male	73	3/4"	1-1/4"	1-1/4"
	BSGA-M20-SS-MM	M20 x 1.5 Male	1/2" NPT Male	77	3/4"	1-1/4"	1-1/4"
Type S Soft Sealing (with PTFE/Graphoil)	BSGA-8N-SS-S	1/2" NPT Male	1/2" NPT Female	69	3/4"	1-1/4"	1-1/4"
	BSGA-8N-SS-S-MM	1/2" NPT Male	1/2" NPT Male	73	3/4"	1-1/4"	1-1/4"
	BSGA-8G-SS-S	1/2" BSPP Male	1/2" NPT Female	73	3/4"	1-1/4"	1-1/4"
	BSGA-8G-SS-S-MM	1/2" BSPP Male	1/2" NPT Male	77	3/4"	1-1/4"	1-1/4"
	BSGA-8R-SS-S	1/2" BSPP Male	1/2" NPT Female	69	3/4"	1-1/4"	1-1/4"
	BSGA-8R-SS-S-MM	1/2" BSPP Male	1/2" NPT Male	73	3/4"	1-1/4"	1-1/4"
	BSGA-M20-SS-S	M20 x 1.5 Male	1/2" NPT Female	73	3/4"	1-1/4"	1-1/4"
	BSGA-M20-SS-S-MM	M20 x 1.5 Male	1/2" NPT Male	77	3/4"	1-1/4"	1-1/4"

Note : Sizes are for reference only and can be changed. Other size, types and materials are available upon request.

Products



Flange Adapter



Pipe Fitting



Flare Fitting



Valve Manifold



Thermowells



Check Valve



Tube Fitting



Needle Valve



Weld Fitting



Swivel Adapter



High Pressure



Gauge Root



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