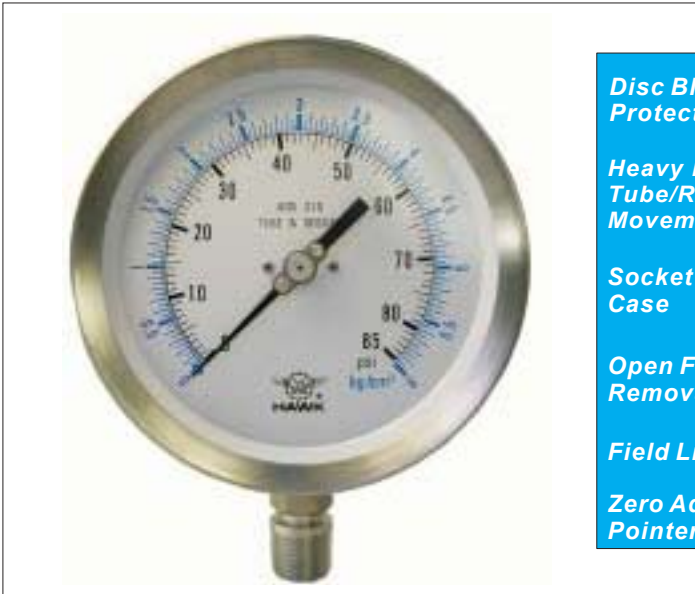


All Stainless Steel/SS Case Pressure Gauge



Disc Blow Out Protection

Heavy Duty Bourdon Tube/Rotary Geared Movement

Socket welded to Case

Open Front/Removable Ring

Field Liquid Fillable

Zero Adjustable Pointer

FAYIN F-27L and F-27B series bourdon tube all stainless steel pressure gauges are designed to fulfill the requirements of high quality from various industries. Because the socket of it is welded to the case, the gauge is stronger, more durable, and shockproof. This design also can eliminate the leak paths when the gauge is liquid filled and extend its service life. The 316SS construction pressure gauges are good in use on demanding applications where corrosion resistance, rugged environment resistance and reliable operation are required. These gauges are ideal to use combined with diaphragm seal where re-calibration is required.

F-27L, F-27B Series

Typical Applications:

√Petrochemical and chemical processing √Medical and pharmaceutical industry √Industrial OEM equipments √Food and beverage processing √Hydraulic monitoring systems √Power generating stations √offshore oil platforms √Pneumatic systems √Level measurement √Pulp and paper mills

Specifications:

Operating:

Steady: 100%*full scale value
Pulsation: 90%*full scale value
Sudden: 130%*full scale value

The appropriate operating range falls in the middle half of the gauge(25% to 75% of full scale). If you choose the unsuitable range, the fatigue of bourdon tube may be resulted. HAWK Supplies a wide selection of range from vacuum to 20000 PSI including compound range.

Temperature limit:

Ambient: -40 to 100 C°(Dry Gauge)
-10 to 65 C°(Glycerine Filled Gauge)
-50 to 80 C°(Silicon Filled Gauge)

Media: max 60 C°-Brass, 125 C°-SS(Standard)
300 C°(Optional)

Temperature effect:

Accuracy of measurement will be effected by the temperature change. This inaccuracy may as high as $\pm 0.3\%$ for 12 C° temperature change.

Dial Size:

4"(100mm), 4 1/2"(115mm),
or 6"(150mm)

Case&Ring:

Stainless Steel 304(SS316-option),
polished bayonet ring

Socket

316 Stainless Steel

Movement

Stainless steel movement with
overload and underload stops-
standard, silicon dampened
movement on request

Bourdon Tube:

316-Stainless Steel or Monel K50
30"Hg(Vac) to 1500PSI...C-type
2000 to 20000PSI...Helical type

Window:

Plain glass-standard
Tempered safety, Polycarbonate
or laminated safety glass-optional

Pointer:

Anodized aluminum with black
finish

Accuracy:

$\pm 1.0\%$ of span
(Grade 1A to ASME B40.1)

Zero-Adjustment:

Micro-adjustable pointer

Scale:

PSI, kPa, Mpa, bar, kg/cm²,
inHg, cmHg, torr, mmHg
(single or dual scale)

Connection:

1/2", 3/8", 1/4" NPT standard,
JIS, DIN , M14*1.0 3/4"NPT,
and M20*1.5 available

Mounting:

Stem or Flushing U-clamp mounting

Weatherproof:

NEMA 4X/IP65 enclosure

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Option:

TSG-Tempered safety glass lens

RFS-Refrigerant Scale

RES-Receiver Scale 3... 15 PSI

UC-Stainless steel U-clamp bracket

MP-Movement with PTFE coated gear

SS-Threaded snubber in socket

FSL-Silicone Filled

CFO-Cleaned for oxygen service

IA-Improved Accuracy 0.5%(Grade 2A-ASME B40.1)

LSG-Laminated safety glass lens

AS-Ammoniated Scale

RS-Retard Scale

BF-Back Flange case

MT-Movement with Titanium coated gear

FGL-Glycerine Filled

COC-Certification of calibration

MAP-Maximum pointer

PW-Polycarbonate lens

Customer dial

ALS-Altitude Scale

FF-Front flange case

DM-Dampened movement

FHL-Halocarbon Filled

9/16"Autoclave connection

BOB-Disc Blow Out Back

EWC-Electrical alarm contact

Pressure Range:

Pressure Range		C28	0/7kg/cm ² /psi	C541	0/160kPa/psi	C681	0/140000kPa/psi
Code	Dial Range	C29	0/10kg/cm ² /psi	C55	0/200kPa/psi	C682	0/160000kPa/psi
C1	0/15 PSI	C30	0/11kg/cm ² /psi	C551	0/250kPa/psi	C683	0/0.6 bar/psi
C2	0/30 PSI	C31	0/14kg/cm ² /psi	C56	0/400kPa/psi	C69	0/1 bar/psi
C3	0/60 PSI	C311	0/15kg/cm ² /psi	C562	0/600kPa/psi	C691	0/1.6 bar/psi
C4	0/100 PSI	C32	0/16kg/cm ² /psi	C57	0/700kPa/psi	C70	0/2 bar/psi
C5	0/160 PSI	C33	0/17.5kg/cm ² /psi	C571	0/1000kPa/psi	C701	0/2.5 bar/psi
C6	0/200 PSI	C34	0/20kg/cm ² /psi	C58	0/1100kPa/psi	C71	0/4 bar/psi
C7	0/300 PSI	C35	0/25kg/cm ² /psi	C59	0/1400kPa/psi	C711	0/6 bar/psi
C8	0/400 PSI	C36	0/28kg/cm ² /psi	C591	0/1600kPa/psi	C72	0/7 bar/psi
C9	0/600 PSI	C37	0/30kg/cm ² /psi	C60	0/2000kPa/psi	C721	0/10 bar/psi
C10	0/800 PSI	C38	0/35kg/cm ² /psi	C600	0/2500kPa/psi	C73	0/11 bar/psi
C11	0/1000 PSI	C39	0/40kg/cm ² /psi	C601	0/2800kPa/psi	C74	0/14 bar/psi
C12	0/1500 PSI	C40	0/50kg/cm ² /psi	C602	0/3000kPa/psi	C741	0/16 bar/psi
C13	0/2000 PSI	C41	0/60kg/cm ² /psi	C61	0/4000kPa/psi	C75	0/20 bar/psi
C14	0/3000 PSI	C42	0/70kg/cm ² /psi	C611	0/6000kPa/psi	C751	0/25 bar/psi
C15	0/5000 PSI	C43	0/100kg/cm ² /psi	C62	0/7000kPa/psi	C76	0/28 bar/psi
C16	0/6000 PSI	C44	0/140kg/cm ² /psi	C621	0/10000kPa/psi	C77	0/40 bar/psi
C17	0/10000 PSI	C441	0/160kg/cm ² /psi	C63	0/14000kPa/psi	C771	0/60 bar/psi
C18	0/15000 PSI	C45	0/200kg/cm ² /psi	C631	0/16000kPa/psi	C78	0/70 bar/psi
C19	0/20000 PSI	C46	0/250kg/cm ² /psi	C64	0/21000kPa/psi	C781	0/100 bar/psi
C20	0/0.6kg/cm ² /psi	C47	0/350kg/cm ² /psi	C640	0/25000kPa/psi	C79	0/140 bar/psi
C21	0/1kg/cm ² /psi	C48	0/400kg/cm ² /psi	C641	0/28000kPa/psi	C791	0/160 bar/psi
C22	0/2kg/cm ² /psi	C49	0/500kg/cm ² /psi	C642	0/30000kPa/psi	C80	0/200 bar/psi
C23	0/2.5kg/cm ² /psi	C50	0/600kg/cm ² /psi	C65	0/35000kPa/psi	C801	0/250 bar/psi
C24	0/3kg/cm ² /psi	C51	0/700kg/cm ² /psi	C66	0/40000kPa/psi	C81	0/350 bar/psi
C25	0/4kg/cm ² /psi	C52	0/1000kg/cm ² /psi	C661	0/55000kPa/psi	C82	0/400 bar/psi
C26	0/5kg/cm ² /psi	C53	0/1400kg/cm ² /psi	C67	0/70000kPa/psi	C821	0/600 bar/psi
C27	0/6kg/cm ² /psi	C54	0/100kPa/psi	C68	0/100000kPa/psi	C83	0/700 bar/psi

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Pressure Range		M21	0/6.0 Mpa	K52	0/10000 kPa	CCT	-76cmHg/60kg/cm ²
Code	Dial Range	M23	0/10 Mpa	K53	0/16000 kPa	CCU	-76cmHg/100kg/cm ²
C84	0/1000 bar/psi	M24	0/16 Mpa	K54	0/20000 kPa	CCU1	-100/+100 kPa/psi
C85	0/1600 bar/psi	M25	0/20 Mpa	K55	0/25000 kPa	CCV	-100/+200 kPa/psi
R1	0/0.4 bar	M26	0/25 Mpa	K57	0/40000 kPa	CCW	-100/+400 kPa/psi
R2	0/0.6 bar	M29	0/40 Mpa	K59	0/60000 kPa	CCX	-100/+700 kPa/psi
R3	0/1.0 bar	M31	0/60 Mpa	K61	0/100000 kPa	CCX1	-100/+1000 kPa/psi
R4	0/1.6 bar	M33	0/100 Mpa	K62	0/160000 kPa	CCY	-100/+1400 kPa/psi
R5	0/2.0 bar	M34	0/160 Mpa	Vacuum Range		CCZ	-100/+2100 kPa/psi
R6	0/2.5 bar	G1	0/0.4 kg/cm ²	Code	Dial Range	CC0	-1/+0.6 bar/psi
R9	0/4.0 bar	G2	0/0.6 kg/cm ²	CV1	-30 inHg/0	CC1	-1/+1 bar/psi
R11	0/6.0 bar	G3	0/1.0 kg/cm ²	CV2	-76 cmHg/inHg/0	CC11	-1/+1.5 bar/psi
R13	0/10 bar	G4	0/1.6 kg/cm ²	CV3	-100 kPa/inHg/0	CC2	-1/+2 bar/psi
R14	0/16 bar	G5	0/2.0 kg/cm ²	CV4	-1 bar/inHg/0	CC21	-1/+2.5 bar/psi
R15	0/20 bar	G6	0/2.5 kg/cm ²	RV1	-1 bar	CC22	-1/+3 bar/psi
R16	0/25 bar	G9	0/4.0 kg/cm ²	MV1	-0.1 Mpa	CC3	-1/+4 bar/psi
R19	0/40 bar	G11	0/6.0 kg/cm ²	GV1	-1 kg/cm ²	CC31	-1/+5 bar/psi
R21	0/60 bar	G13	0/10 kg/cm ²	KVX	-100 kPa	CC4	-1/+7 bar/psi
R23	0/100 bar	G14	0/16 kg/cm ²	Compound Range		CC41	-1/+9 bar/psi
R24	0/160 bar	G15	0/20 kg/cm ²	Code	Dial Range	CC5	-1/+10 bar/psi
R25	0/200 bar	G16	0/25 kg/cm ²	CCA	-30inHg/0/15psi	CC6	-1/+14 bar/psi
R26	0/250 bar	G19	0/40 kg/cm ²	CCB	-30inHg/0/30psi	CC7	-1/+15 bar/psi
R29	0/400 bar	G21	0/60 kg/cm ²	CCC	-30inHg/0/60psi	CC8	-1/+24 bar/psi
R31	0/600 bar	G23	0/100 kg/cm ²	CCD	-30inHg/0/100psi	RC1	-1/+0.6 bar
R33	0/1000 bar	G24	0/160 kg/cm ²	CCE	-30inHg/0/150psi	RC2	-1/+1.5 bar
R34	0/1600 bar	G25	0/200 kg/cm ²	CCF	-30inHg/0/200psi	RC3	-1/+3 bar
M1	0/0.04 Mpa	G26	0/250 kg/cm ²	CCG	-30inHg/0/300psi	RC4	-1/+5 bar
M2	0/0.06 Mpa	G29	0/400 kg/cm ²	CCH	-76cmHg/1kg/cm ²	RC5	-1/+9 bar
M3	0/0.1 Mpa	G31	0/600 kg/cm ²	CCI	-76cmHg/1.5kg/cm ²	RC6	-1/+15 bar
M4	0/0.16 Mpa	G33	0/1000 kg/cm ²	CCJ	-76cmHg/2kg/cm ²	RC7	-1/+24 bar
M5	0/0.20 Mpa	G34	0/1600 kg/cm ²	CCJ1	-76cmHg/3kg/cm ²	MC1	-0.1/+0.06 Mpa
M6	0/0.25 Mpa	K38	0/400 kPa	CCL	-76cmHg/4kg/cm ²	MC2	-0.1/+0.15 Mpa
M9	0/0.4 Mpa	K40	0/600 kPa	CCM	-76cmHg/5kg/cm ²	MC21	-0.1/+0.2 Mpa
M11	0/0.6 Mpa	K42	0/1000 kPa	CCN	-76cmHg/7kg/cm ²	MC22	-0.1/+0.25 Mpa
M13	0/1.0 Mpa	K43	0/1600 kPa	CCO	-76cmHg/10kg/cm ²	MC3	-0.1/+0.3 Mpa
M14	0/1.6 Mpa	K44	0/2000 kPa	CCP	-76cmHg/15kg/cm ²	MC31	-0.1/+0.4 Mpa
M15	0/2.0 Mpa	K45	0/2500 kPa	CCQ	-76cmHg/20kg/cm ²	MC4	-0.1/+0.5 Mpa
M16	0/2.5 Mpa	K48	0/4000 kPa	CCR	-76cmHg/24kg/cm ²	MC5	-0.1/+0.6 Mpa
M19	0/4.0 Mpa	K50	0/6000 kPa	CCS	-76cmHg/35kg/cm ²	MC51	-0.1/+0.7 Mpa

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Compound Range		GC2	-1/+1.5 kg/cm ²	GC7	-1/+24 kg/cm ²	KCY4	-100/+900 kPa
MC6	-0.1/+0.9 Mpa	GC3	-1/+3 kg/cm ²	KCY	-100/+60 kPa	KCY5	-100/+1500 kPa
MC7	-0.1/+1.5 Mpa	GC4	-1/+5 kg/cm ²	KCY1	-100/+150 kPa	KCY6	-100/+2400 kPa
MC8	-0.1/+2.4 Mpa	GC5	-1/+9 kg/cm ²	KCY2	-100/+300 kPa		
GC1	-1/+0.6 kg/cm ²	GC6	-1/+15 kg/cm ²	KCY3	-100/+500 kPa		

1. The other scales and ranges(DIN) are available in request.

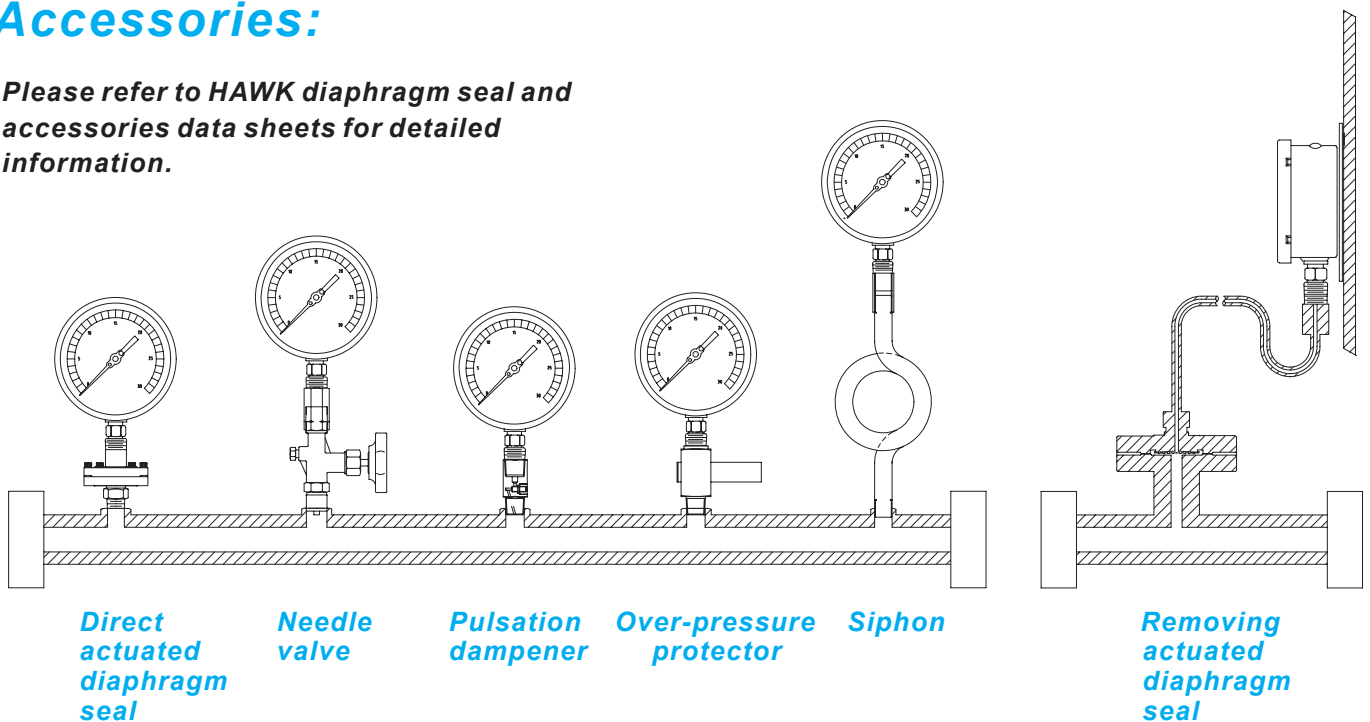
2. Not all listed ranges and scales are in stock, Consult your distributors for available.



Socket welded to Casing

Accessories:

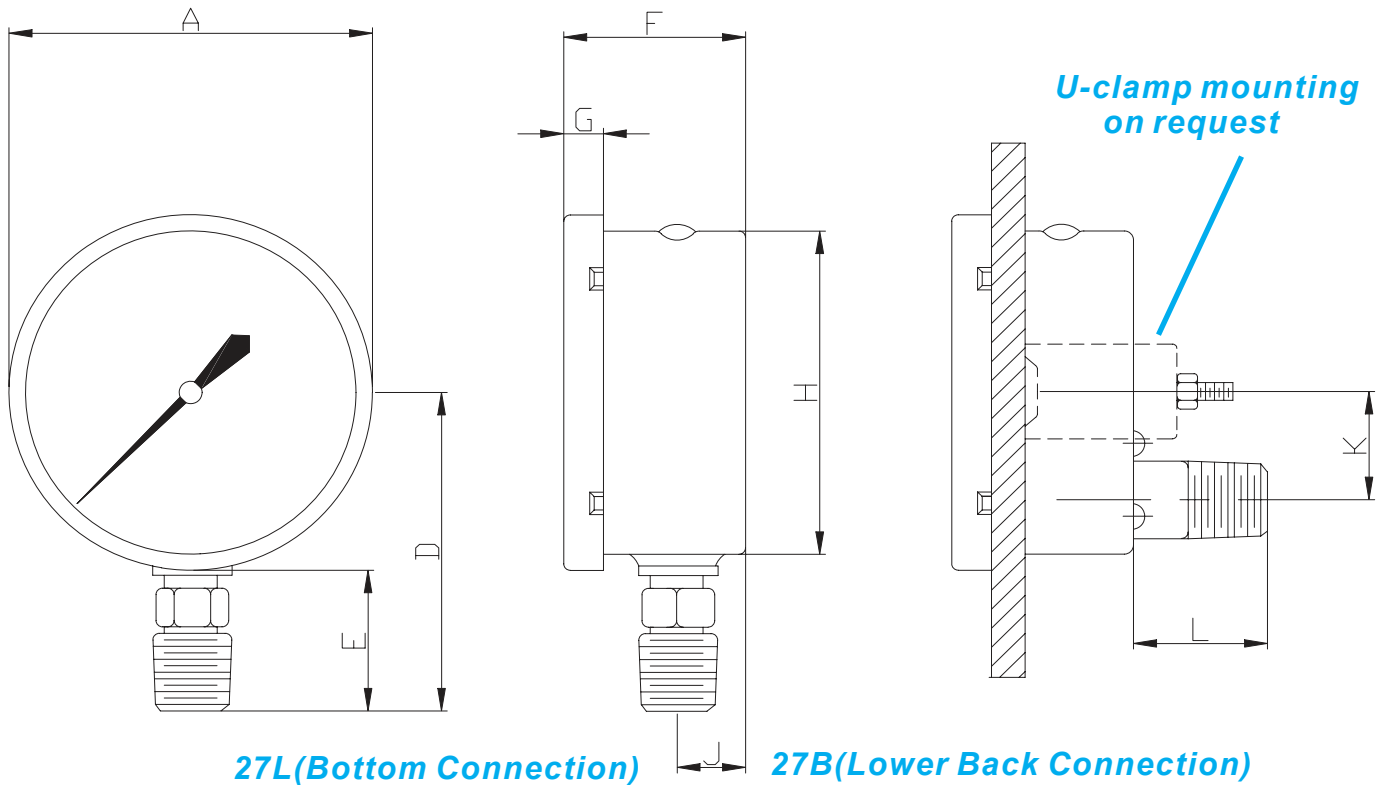
Please refer to HAWK diaphragm seal and accessories data sheets for detailed information.



All Stainless Steel/SS Case Pressure Gauge



Dimensions:



4" (100mm) Dial Size

Type No:	A	B	C	D	E	F	G	H	J	K	L	Weight
F-27L(4")	4.33" (110)			4.41" (112)	1.49" (38)	1.89" (48)	0.47" (12)	3.94" (100)	0.79" (20)			0.49-0.55 Kg
F-27B(4")	4.33" (110)					1.89" (48)	0.47" (12)	3.94" (100)		1.18" (30)	1.26" (32)	0.58-0.64 Kg

4 1/2" (115mm) Dial Size

Type No:	A	B	C	D	E	F	G	H	J	K	L	Weight
F-27L(4.5")	4.40" (137)			4.21" (107)	1.53" (39)	2.25" (57)	0.63" (16)	4.76" (121)	0.95" (24)			0.68-0.78 Kg
F-27B(4.5")	4.40" (137)					2.25" (57)	0.63" (16)	4.76" (121)		1.26" (32)	1.26" (32)	0.68-0.78 Kg

6" (150mm) Dial Size

Type No:	A	B	C	D	E	F	G	H	J	K	L	Weight
F-27L(6")	6.23" (160)			4.72" (120)	1.58" (40)	1.97" (50)	0.51" (13)	5.91" (150)	0.79" (20)			1.02-1.12 Kg
F-27B(6")	6.23" (160)					1.97" (50)	0.51" (13)	5.91" (150)		1.26" (32)	1.26" (32)	1.12-1.20 Kg

All Stainless Steel/SS Case Pressure Gauge



Order Information:

	F-27L	04	S	2	C5	XXX
	F-27L-Lower (Bottom) Connection	Dial Sizes: 04-4" (100mm)	Parts: S-316SS	Connection: Process	Range: Please refer to the range table and write down the code you need.	Option: SS-Threaded Snubber in Socket
	F-27B-Lower Back Connection	45-4 ½" (115mm)	M-Monel	2-1/2"NPT	Vacuum Compound Pressure	PW-Polycarbonate Window
		06-6" (150mm)	B-Brass	4-1/4"NPT		LSG-Laminated Safety Glass Lens
				8-1/8"NPT		TSG-Tempered Safety Glass Lens
				7-7/16"UNF		UC-U-clamp Kit
				D-G 1/2		BOB-Disc Blow Out Back
				H-G 3/8		SC-316SS Case
				E-G 1/4		
				A-R 1/2		
				G-R 3/8		
				B-R 1/4		
				L-Others		
				3-3/8"NPT		
				9-9/16"UNF		
				5-3/4"NPT		



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