## **Data Sheet**



## **SB Subsea Pressure Gauge**

#### **FEATURES**

- Depths to 6000 meters
- All-Stainless steel design
- Meets RVA calibration standards

#### **TYPICAL USES**

- Offshore drilling
- Hyperbaric conditions
- Specialized deep depth



## SB Gauge

100mm dial size

#### **SPECIFICATIONS**

Accuracy: ±1.0% of span (100, 140, 160mm)

±1.6% of span (63mm)

Case Size: 63, 100, 140, 160mm

Range: 15 psi to 20,000 psi (63mm)

90 psi to 20,000 psi (100, 140, 160mm)

**Process Connection** 

Window Thickness:

Location:

Mounting:

Process Connection: NPT or BSP: ¼" (63mm), ½" (100, 140, 160mm)

Case Style: Open front (Solid drilled bar stock)

Lower, back

63mm dial size: 15mm (1200 meter)

20mm (2000 meter)

100mm dial size: 20mm

160mm dial size: 40mm

Movement: 304 Stainless steel

Dial: Aluminum, white background, black scale

Pointer: Black, aluminum

Weather Protection: IP68

Direct, panel or surface

Operating Temperature: 40°F to 120°F (4°C to 50°C)

Approvals: CE

#### **KEY BENEFITS**

- Provides measurement in extreme undersea depths
- Corrosion resistant construction

NON-WETTED COMPONENTS								
Case	316L Stainless steel							
Screwed Bezel Ring	316L Stainless steel							
WETTED COMPONENTS								
Bourdon Tube	316L Stainless steel							
Pressure Connection	316L Stainless steel							

# **Data Sheet**



# **SB Subsea Pressure Gauge**

Case Size/Model Code	ORDERING CODE	Example:	63SB	В	S	D	02	L	160#	-XDA
10SB - SB Subsea Gauge, 140mm 14SB - SB Subsea Gauge, 140mm 16SB - SB Subsea Gauge, 160mm Depth (s) A - 1200 Meters (G3mm Size) B - 2000 Meters (G3mm Size) B - 2000 Meters (100mm Size) B - 4000 Meters (100mm Size) D - 450 Meters (100mm Size) D - 450 Meters (100mm Size) S - 316L Tube & process connection S - 316L Tube & process connection S - 316L Tube & process connection S - Silicone Process Connection Sizes 02 - ¼ NPT Male (63mm Size) 14 - ¼ BSP Male (63mm Size) 15 - ½ BSP Male Process Connection Location L - Lower L - Lower B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi Options (if choosing an option(s) must include a "X")  K FF - Front flange (lower and back connection) FW - Back flange (lower and back connection) FW - Back flange (lower connection only, N/A with depth selections F and G) DA BD - Black dial / white pointer	Case Size/Model Code									
14SB - SB Subsea Gauge, 140mm 16SB - SB Subsea Gauge, 160mm    Depth (s)	63SB - SB Subsea Gauge, 63mm		63SB							
16SB - SB Subsea Gauge, 160mm	10SB - SB Subsea Gauge, 100mm									
Depth (s)	14SB - SB Subsea Gauge, 140mm									
A - 1200 Meters (63mm Size) B - 2000 Meters (63mm Size) B - 2000 Meters (100mm Size) C - 900 Meters (100mm Size) D - 450 Meters (100mm Size) G - 6000 Meters (140mm Size) System Tube S - 316L Tube & process connection S - Silicone Process Connection Sizes 02 - ¼ NPT Male (63mm Size) 02 - ¼ NPT Male (63mm Size) 15 - ½ BSP Male (63mm Size) 15 - ½ BSP Male (63mm Size) 16 - ½ BSP Male Process Connection Location L - Lower L B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi Options (if choosing an option(s) must include a "X")  X FF - Front flange (lower connection only, N/A with depth selections F and G) DA - Dial marking - text marking on dial DA BD - Black dial / white pointer	16SB - SB Subsea Gauge, 160mm									
B - 2000 Meters (63mm Size) C - 900 Meters (100mm Size) F - 4000 Meters (100mm Size) D - 450 Meters (140mm Size) G - 6000 Meters (140mm Size) S - 316L Tube & process connection S - Silicone Process Connection Sizes 02 - ½ NPT Male (63mm Size) 02 - ½ NPT Male (63mm Size) 15 - ½ BSP Male (63mm Size) 15 - ½ BSP Male (63mm Size) L - Lower L - Lower L - Lower L - Lower L - B - Back Process Connection Location L - Trent flange (coding example only, see range table on page 3 for standard ranges 160# - 160 psi	Depth (≤)									
C - 900 Meters (100mm Size) F - 4000 Meters (100mm Size) D - 450 Meters (160mm Size) G - 6000 Meters (140mm Size) System Tube S - 316L Tube & process connection S Fill Fluid D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G) D - 3 - 31/2 Gilcone Process Connection Sizes 02 - ⅓ NPT Male (63mm Size) 02 - ⅓ NPT Male (63mm Size) 04 - ½ NPT Male (63mm Size) 15 - ½ BSP Male Process Connection Location L - Lower B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi Options (if choosing an option(s) must include a "X") FF - Front flange (lower and back connection) FW - Back flange (lower connection only, N/A with depth selections F and G) NH - Stainless steel tag wired to case DA - Dial marking - text marking on dial DA BD - Black dial / white pointer	A - 1200 Meters (63mm Size)									
F - 4000 Meters (100mm Size) D - 450 Meters (160mm Size) G - 6000 Meters (140mm Size)  System Tube S - 316L Tube & process connection S - 316L Tube & process connection D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G) D - Gr - Glycerin S - Silicone Process Connection Sizes D - ¼ NPT Male (63mm Size) D - ½ NPT Male (63mm Size) D - ½ NPT Male 14 - ¼ BSP Male (63mm Size) D - ½ SPSP Male Process Connection Location L - Lower L - Lower L - Lower D - B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi Options (If choosing an option(s) must include a "X") FF - Front flange (lower and back connection) FW - Back flange (lower connection only, N/A with depth selections F and G) NH - Stainless steel tag wired to case DA - Dial marking - text marking on dial DA BD - Black dial / white pointer	B - 2000 Meters (63mm Size)			В						
D - 450 Meters (160mm Size) G - 6000 Meters (140mm Size) System Tube S - 316L Tube & process connection S - Silicone Process Connection Sizes O2 - ¼ NPT Male (63mm Size) O2 - ¼ NPT Male (63mm Size) O3 - ½ NBP Male Process Connection Location L - Lower L B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi 160# - 16	C - 900 Meters (100mm Size)									
G - 6000 Meters (140mm Size)  System Tube S - 316L Tube & process connection S - D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G) D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G) C - Glycerin S - Silicone  Process Connection Sizes 02 - ¼ NPT Male (63mm Size) 04 - ½ NPT Male (63mm Size) 15 - ½ BSP Male (63mm Size) 15 - ½ BSP Male Process Connection Location L - Lower L B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi Options (if choosing an option(s) must include a "X") FF - Front flange (lower and back connection) FW - Back flange (lower connection only, N/A with depth selections F and G) NH - Stainless steel tag wired to case DA - Dial marking - text marking on dial DA BD - Black dial / white pointer	F - 4000 Meters (100mm Size)									
System Tube S - 316L Tube & process connection S Fill Fluid D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G) D - G - Glycerin S - Silicone Process Connection Sizes C2 - ¼ NPT Male (63mm Size) 14 - ¼ BSP Male (63mm Size) 15 - ½ BSP Male Process Connection Location L - Lower L B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi Options (If choosing an option(s) must include a "X") FF - Front flange (lower and back connection) FW - Back flange (lower connection only, N/A with depth selections F and G) NH - Stainless steel tag wired to case DA - Dial marking - text marking on dial DA BD - Black dial / white pointer	D - 450 Meters (160mm Size)									
S - 316L Tube & process connection  Sill Fluid  D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G)  G - Glycerin  S - Silicone  Process Connection Sizes  02 - ¼ NPT Male (63mm Size)  04 - ½ NPT Male  14 - ½ BSP Male (63mm Size)  15 - ½ BSP Male  Process Connection Location  L - Lower  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (if choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	G - 6000 Meters (140mm Size)									
Fill Fluid  D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G)  G - Glycerin  S - Silicone  Process Connection Sizes  02 - ¼ NPT Male (63mm Size)  04 - ½ NPT Male (63mm Size)  15 - ½ BSP Male  Process Connection Location  L - Lower  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (if choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	System Tube				_					
D - Dry (available for pressures ≤ 160 psi, N/A with depth selections F and G)  G - Glycerin  S - Silicone  Process Connection Sizes  02 - ¼ NPT Male (63mm Size)  04 - ½ NPT Male  14 - ¼ BSP Male (63mm Size)  15 - ½ BSP Male  Process Connection Location  L - Lower  L  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	S - 316L Tube & process connection				S					
G - Glycerin S - Silicone  Process Connection Sizes  02 - ¼ NPT Male (63mm Size) 04 - ½ NPT Male 14 - ¼ BSP Male (63mm Size) 15 - ½ BSP Male  Process Connection Location L - Lower L B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	Fill Fluid									
S - Silicone  Process Connection Sizes  02 - ¼ NPT Male (63mm Size) 02  04 - ½ NPT Male  14 - ¼ BSP Male (63mm Size)  15 - ½ BSP Male  Process Connection Location  L - Lower L  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	D - Dry (available for pressures ≤ 160 psi, N	I/A with depth selections F and	G)			D				
Process Connection Sizes  02 - ¼ NPT Male (63mm Size)  04 - ½ NPT Male  14 - ¼ BSP Male (63mm Size)  15 - ½ BSP Male  Process Connection Location  L - Lower  L B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	G - Glycerin									
02 - ¼ NPT Male (63mm Size) 04 - ½ NPT Male 14 - ¼ BSP Male (63mm Size) 15 - ½ BSP Male Process Connection Location L - Lower L B - Back Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection) FW - Back flange (lower connection only, N/A with depth selections F and G) NH - Stainless steel tag wired to case DA - Dial marking - text marking on dial DA BD - Black dial / white pointer	S - Silicone									
04 - ½ NPT Male 14 - ½ BSP Male (63mm Size) 15 - ½ BSP Male  Process Connection Location  L - Lower  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges 160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	Process Connection Sizes									
14 - 1/4 BSP Male (63mm Size)  15 - 1/2 BSP Male  Process Connection Location  L - Lower  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	02 - 1/4 NPT Male (63mm Size)						02			
15 - ½ BSP Male  Process Connection Location  L - Lower  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	04 - ½ NPT Male									
Process Connection Location  L - Lower  B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	14 - 1/4 BSP Male (63mm Size)									
L - Lower B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	15 - ½ BSP Male									
B - Back  Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	Process Connection Location									
Pressure Range (coding example only, see range table on page 3 for standard ranges  160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	L - Lower							L		
160# - 160 psi  Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	B - Back									
Options (If choosing an option(s) must include a "X")  FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	Pressure Range (coding example only, se	ee range table on page 3 for s	tandard ranges							
FF - Front flange (lower and back connection)  FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	160# - 160 psi								160#	
FW - Back flange (lower connection only, N/A with depth selections F and G)  NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  DA  BD - Black dial / white pointer	Options (If choosing an option(s) must in	clude a "X")								X
NH - Stainless steel tag wired to case  DA - Dial marking - text marking on dial  BD - Black dial / white pointer	FF - Front flange (lower and back connection	on)								
DA - Dial marking - text marking on dial  BD - Black dial / white pointer	FW - Back flange (lower connection only, N	/A with depth selections F and	G)							
BD - Black dial / white pointer	NH - Stainless steel tag wired to case									
	DA - Dial marking - text marking on dial									DA
YD - Yellow dial / black pointer	BD - Black dial / white pointer									
	YD - Yellow dial / black pointer									

# **Data Sheet**



# **SB Subsea Pressure Gauge**

STA	NDARD PRE	ESSURE RAN	GES	
Ε	psi	bar	kPa	kg/cm²
Vacuum	15#	N1BR	N100KP	1KG
Na Va	-	N1/0.6BR	N100/60KP	1.6KG
	30#	-	_	_
	_	2.5BR	250KP	2.5KG
	60#	4BR	400KP	4KG
ᄝ	-	6BR	600KP	6KG
₹	100#	02.1	000111	-
Compound	-	10BR	1000KP	10KG
త	160#	_	-	_
	200#	_	_	_
	_	16BR	1600KP	16KG
	300#	-	-	-
	_	25BR	2500KP	25KG
	400#	-	-	-
	500#	-	-	-
	600#	40BR	4000KP	40KG
	800#	-	-	_
	-	60BR	6000KP	60KG
	1000#	_	-	_
<u>re</u>	1500#	100BR	10000KP	100KG
SSS	2000#	-	-	-
Pr	-	160BR	16000KP	160KG
Positive Pressure	3000#	-	-	-
Pos	-	250BR	25000KP	250KG
	4000#	-	-	-
	5000#	-	-	-
	6000#	400BR	40000KP	400KG
	8000#	-	-	-
	-	600BR	60000KP	600KG
	10000#	-	-	-
	15000#	1000BR	100000KP	1000KG
	20000#		-	-
	-	1600BR	- secure range for 63m	1600KG

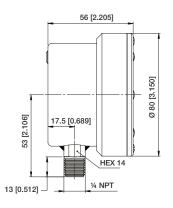
NOTE: 15000 psi maximum pressure range for 63mm size 90 psi minimum range for 100, 140, 160 mm size



#### **DIMENSIONS** mm [in]

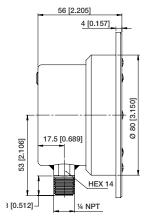
For reference only, consult Ashcroft for specific dimensional drawings

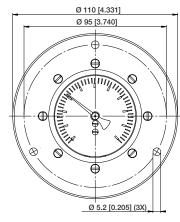
#### 63mm SB Lower Connect, 1200 Meter



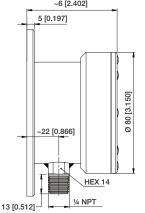


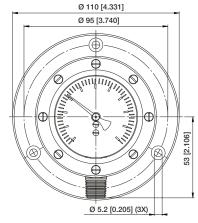
#### 63mm SB Lower Connect (XFF), 1200 Meter



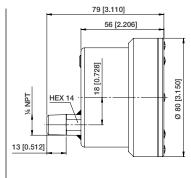


#### 63mm SB Lower Connect (XFW), 1200 Meter



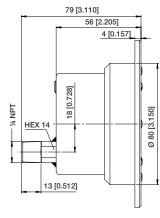


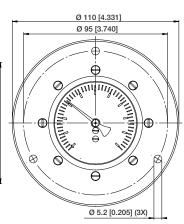
#### 63mm SB Back Connect, 1200 Meter





#### 63mm SB Back Connect (XFF), 1200 Meter







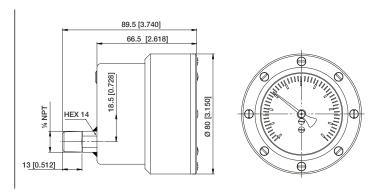
#### **DIMENSIONS** mm [in]

For reference only, consult Ashcroft for specific dimensional drawings

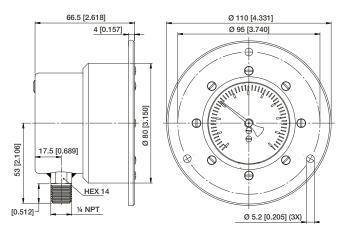
#### 63mm SB Lower Connect, 2000 Meter

# 66.5 [2.618] 17.5 [0.689] HEX 14 13 [0.512]

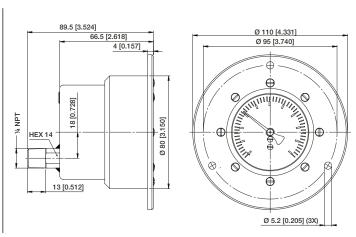
#### 63mm SB Back Connect, 2000 Meter



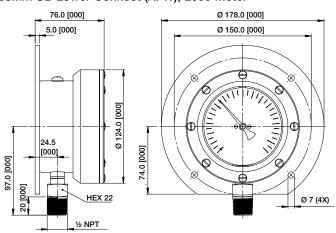
#### 63mm SB Lower Connect (XFF), 2000 Meter



63mm SB Back Connect (XFF), 2000 Meter

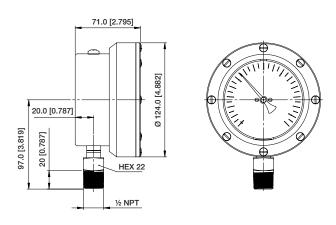


#### 63mm SB Lower Connect (XFW), 2000 Meter

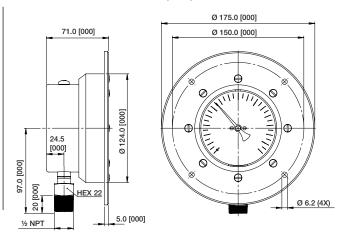




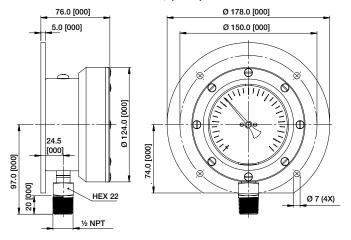
#### 100mm SB Lower Connect, 900 meters



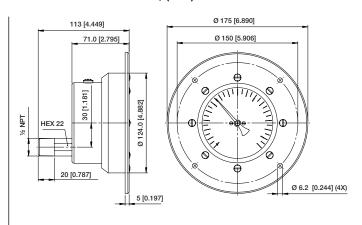
#### 100mm SB Lower Connect, (XFF) 900 meters



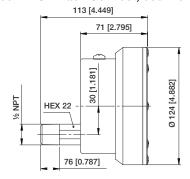
#### 100mm SB Lower Connect, (XFW) 900 meters



#### 100mm SB Back Connect, (XFF) 900 meters



#### 100mm SB Back Connect, 900 meters



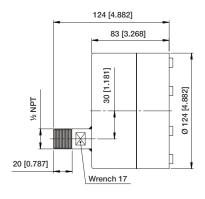


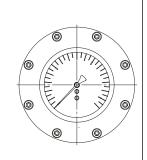


#### **DIMENSIONS** mm [in]

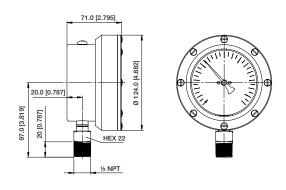
For reference only, consult Ashcroft for specific dimensional drawings

#### 100mm SB Back Connect, 4000 meters

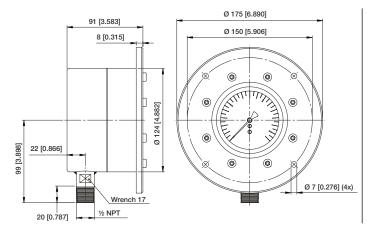




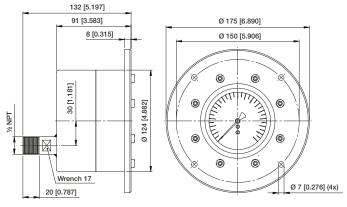
#### 100mm SB Lower Connect, 4000 meters



#### 100mm SB Lower Connect, (XFF) 4000 meters



#### 100mm SB Back Connect, (XFF) 4000 meters

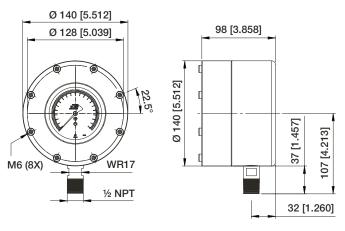




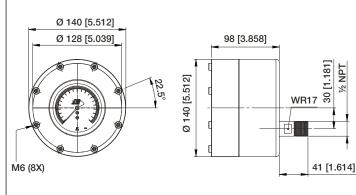
#### **DIMENSIONS** mm [in]

For reference only, consult Ashcroft for specific dimensional drawings

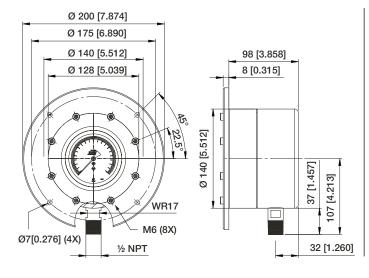
#### 140mm SB Lower Connect, 6000 meters



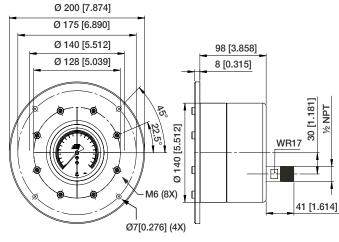
#### 140mm SB Back Connect 6000 meters



#### 140mm SB Lower Connect (XFF), 6000 meters



#### 140mm SB Back Connect (XFF), 6000 meters

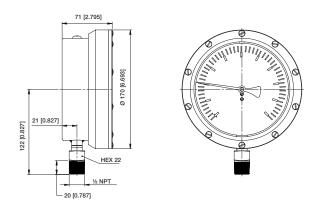




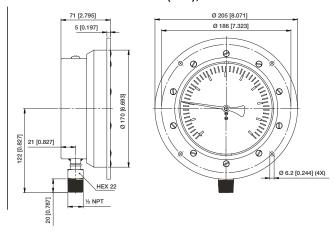
#### **DIMENSIONS** mm [in]

For reference only, consult Ashcroft for specific dimensional drawings

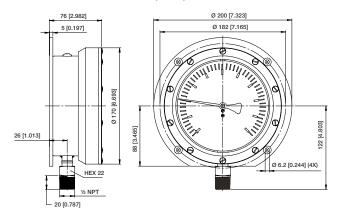
#### 160mm SB Lower Connect, 450 meters



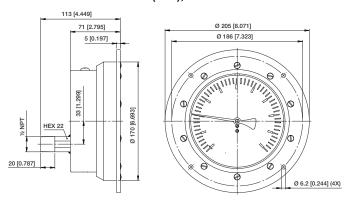
#### 160mm SB Lower Connect (XFF), 450 meters



#### 160mm SB Lower Connect (XFW), 450 meters



#### 160mm SB Back Connect (XFF), 450 meters



#### 160mm SB Back Connect, 450 meters

