

Acid Leak Detection (ALD) Assembly

Features

- Acid sensing component (yellow in photo turns **red** when exposed to acid with a pH ≤3.0)
- Available with pressure ranges to 10,000 psi
- Gauge welded to seal (STD.)
- Available with Halocarbon® fill for oxidizing acids
- Orange or yellow gauge case for identification (OPT.)
- Available with Silicone-free **PLUS!**™ Performance
- Custom dials available

Specifications

Accuracy:	1259, 1279: ±1.0% of span T6500: ±1.5% of span
Dial Sizes:	1259, 1279: 4½" T6500: 100mm
Process Connection:	½ NPT
Case Style:	Solid front with pressure relief back
Pointer:	Micrometer, adjustable, aluminum
Weather Protection:	Hermetically sealed: IP66
Diaphragm Seal Type:	510 Threaded or DF Flanged
Window Material:	1259: Safety glass (STD.) acrylic (OPT.) 1279: Safety glass (STD.), non-glare glass (OPT.) or acrylic (OPT.) T6500: Safety glass or polycarbonate (OPT.)
Tamper Proof Design:	Diaphragm seal welded to gauge socket
Pressure Rating (MAWP):	Vac. to 1,500 psi @ 100°F 1,500 to 10,000 psi @ 100°F (OPT.)

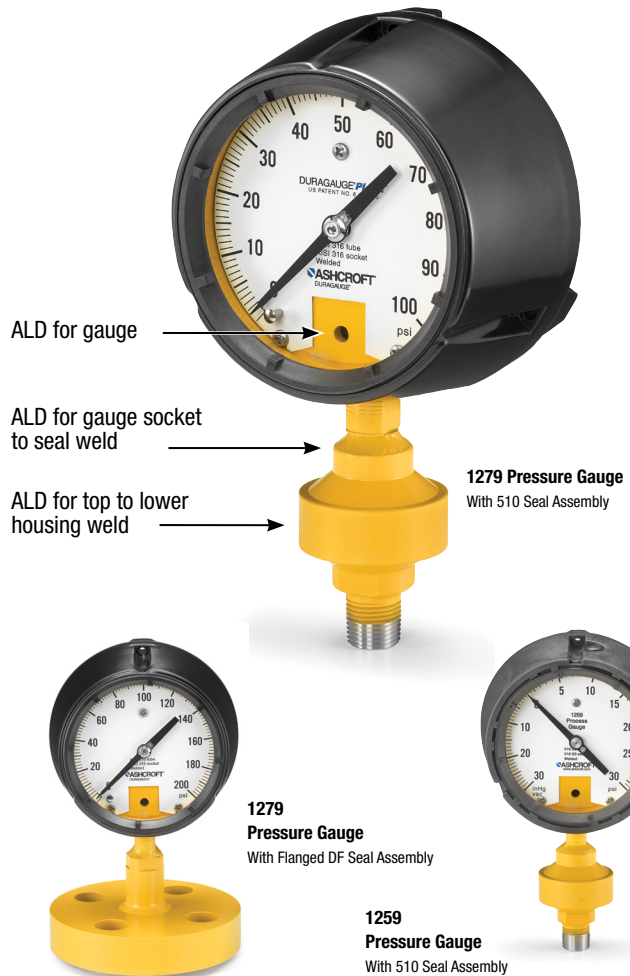
Wetted Components

Models	Diaphragm	Lower Housing
510	316L Stainless steel, Hastelloy® C-276 or Monel® or Tantalum	316 Stainless steel, Hastelloy® C-276 or Monel®
DF Flanged	316L Stainless steel, Hastelloy® C-276, Monel® or Tantalum	N/A

Non-Wetted Components

Models	Top Housing	Flange
510	316L Stainless steel, Monel®	—
DF Flanged	316L Stainless steel, Monel®	316L Stainless steel, Monel®

Consult [material selector/corrosion guide](#) at www.ashcroft.com for acid compatibility



Key Benefits

- Tamper proof design, gauge welded to seal
- Visual indication of leaking process media
- Dual containment for safety

Non-Wetted Components

Models	Case	Ring	Back Cover
1259	PBT	PBT	PBT
1279	Phenolic	Polycarbonate	Polycarbonate
T6500	304 Stainless steel	304 Stainless steel	304 Stainless steel

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Ordering Code	Example:	45	ALD	1	P	1P	P	04	G	100#	-XOC
Dial Size											
45 - 4½" dial (available only with cases 1 and 2)		45									
10 - 100mm dial (available only with case 3)											
Assembly											
ALD - Acid leak detection			ALD								
Case											
1 - 1279 (available only with dial size 4½")				1							
2 - 1259 (available only with dial size 4½")											
3 - T6500 (available only with dial size 100mm)											
Bourdon Tube & Gauge Process Connection											
P - Monel®					P						
S - 316 Stainless steel											
Diaphragm Seal and Material											
1H (510) - Hastelloy® C-276 diaphragm											
1P (510) - Monel® diaphragm (only available with "P" Bourdon Tube & Process Connection and "P"-Monel® lower housing)						1P					
1S (510) - 316L Stainless steel diaphragm											
1U (510) - Tantalum diaphragm											
2H (DF) - Hastelloy® C-276 diaphragm											
2M (DF) - Monel® (Monel® diaphragm with Monel® top housing and flange) Only available with "P" Bourdon Tube & Process Connection											
2P (DF) - Monel® (Monel® diaphragm with 316L top housing and flange) Only available with "S" Bourdon Tube & Process Connection											
2S (DF) - 316L Stainless steel diaphragm											
2U (DF) - Tantalum diaphragm											
Lower Housing Material (510 seal only)											
N - No lower housing for DF seal											
B - Hastelloy® B											
H - Hastelloy® C-276											
P - Monel® (available only with (1P-Monel®) diaphragm material)						P					
S - 316L Stainless steel											
Process Connection Size and Type											
04 - ½" NPT Male								04			
06 - ¾" NPT Male											
1A - 1" 150RF Flange DF seal (requires a 160# minimum pressure span)											
1B - 1" 300RF Flange DF seal (requires a 160# minimum pressure span)											
1C - 1" 600RF Flange DF seal (requires a 160# minimum pressure span)											
1D - 1.5" 150RF Flange DF seal (requires a 60# minimum pressure span)											
1E - 1.5" 300RF Flange DF seal (requires a 60# minimum pressure span)											
1F - 1.5" 600RF Flange DF seal (requires a 60# minimum pressure span)											
2A - 2" 150RF Flange DF seal											
2B - 2" 300RF Flange DF seal											
2C - 2" 600RF Flange DF seal											
2D - 2" 1500RF Flange DF seal											
3A - 3" 150RF Flange DF seal											
3B - 3" 300RF Flange DF seal											
3C - 3" 600RF Flange DF seal											
3D - 3" 900RF Flange DF seal											
3E - 3" 1500RF Flange DF seal											

Acid Leak Detection (ALD) Assembly

Ordering Code	Example:	45	ALD	1	P	1P	P	04	G	100#	-XOC
System Fill Fluid											
G - Glycerin										G	
H - Halocarbon®											
S - Silicone											
Range (see range table)											
100# - 100 psi											100#
Options (if in choosing an option(s) must include an “-X”)											-X_
Dampening											
LL - <i>Plus</i> ™ Performance (N/A with Case 2)											
NZ - Silicone free <i>Plus</i> ™ Performance (N/A with Case 2)											
Dial											
D3 - Duravis™ Retroflective Dial (dry case only)											
Window & Case											
OC - Orange case (only available with Case 1)											OC
PD - Acrylic window (recommended for HF applications)											
YC - Yellow case (only available with Case 1)											
Mounting											
TM - 2” Pipe mounting bracket (N/A with Case 3)											
Tagging											
NH - Stainless steel tag wired to case											
Special Cleaning											
6B - Cleaned for oxygen service (N/A with Glycerin or Silicone system fill)											
Other											
HP - High pressure seal option required for ranges 2,000 psi to 10,000 psi (510 seal only)											
Testing/Certification											
MQ - Positive material identification (PMI)											
C4 - Traceable calibration certificate											
Certification (miscellaneous charges not included within model code)											
CD-1 - Certificate of Conformance to specifications and/or drawings (Standard)											
CD-1A - Certificate of Conformance to specifications and/or drawings (Non-Standard) cost per list/order											
CD-25 - Recalibration chart (charts as received and as shipped accuracy) list/gauge											
CD-4 - Traceable recalibration chart in accordance to ASME B40-100 accuracy											
CD-5 - Certificate of Compliance for refineries to NACE MR0103-2010 and for oilfields (production) to NACE MRO175/ISO 15156-2009 (Gauge wetted parts must be 316 Stainless steel or Monel®.)											
CD-6 - Typical Material Certification per EN 10204 2.2											

Acid Leak Detection (ALD) Assembly

1259, 1279 Pressure Ranges					
	psi	bar	kPa	mPa	kg/cm ²
Vacuum	30IMV	N1BR	N100KP	N1MP	N1KG
	–	N1/.6BR	N100/60KP	.1/.06MP	N1/.6KG
Compound	V/15#	–	–	–	–
	–	N1/1.5BR	N100/150KP	N.1/.15MP	N1/1.5KG
	V/30#	–	–	–	–
	–	N1/3BR	N100/300KP	N.1/.3MP	N1/3KG
	V/60#	–	–	–	–
	–	N1/5BR	N100/500KP	N.1/.5MP	N1/5KG
	V/100#	–	–	–	–
	–	N1/9BR	N100/900KP	N.1/.9MP	N1/9KG
	15#	1BR	100KP	.1MP	1KG
	20#	–	–	–	–
	–	1.6BR	160KP	.16MP	1.6KG
	30#	–	–	–	–
	–	2.5BR	250KP	.25MP	2.5KG
	60#	4BR	400KP	.4MP	4KG
	–	6BR	600KP	.6MP	6KG
	100#	–	–	–	–
	120#	–	–	–	–
Positive Pressure	–	10BR	1000KP	1MP	10KG
	160#	–	–	–	–
	200#	–	–	–	–
	–	16BR	1600KP	1.6MP	16KG
	300#	–	–	–	–
	–	25BR	2500KP	2.5MP	25KG
	400#	–	–	–	–
	500#	–	–	–	–
	600#	40BR	4000KP	4MP	40KG
	800#	–	–	–	–
	–	60BR	6000KP	6MP	60KG
	1000#	–	–	–	–
	1500#	100BR	10000KP	10MP	100KG
	2000#	–	–	–	–
	–	160BR	16000KP	16MP	160KG
	3000#	–	–	–	–
	–	250BR	25000KP	25MP	250KG
	4000#	–	–	–	–
	5000#	–	–	–	–
	6000#	400BR	40000KP	40MP	400KG
	8000#	–	–	–	–
	–	600BR	60000KP	60MP	600KG
	10000#	–	–	–	–

T6500 Pressure Ranges					
	psi	bar	kPa	mPa	kg/cm ²
Vacuum	30IMV	N1BR	N100KP	N1MP	N1KG
	–	N1/.6BR	N100/60KP	.1/.06MP	N1/.6KG
Compound	V/15#	–	–	–	–
	–	N1/1.5BR	N100/150KP	N.1/.15MP	N1/1.5KG
	V/30#	–	–	–	–
	–	N1/3BR	N100/300KP	N.1/.3MP	N1/3KG
	V/60#	–	–	–	–
	–	N1/5BR	N100/500KP	N.1/.5MP	N1/5KG
	V/100#	–	–	–	–
	–	N1/9BR	N100/900KP	N.1/.9MP	N1/9KG
	15#	1BR	100KP	.1MP	1KG
	20#	–	–	–	–
	–	1.6BR	160KP	.16MP	1.6KG
	30#	–	–	–	–
	–	2.5BR	250KP	.25MP	2.5KG
	60#	4BR	400KP	.4MP	4KG
	–	6BR	600KP	.6MP	6KG
	100#	–	–	–	–
	120#	–	–	–	–
Positive Pressure	–	10BR	1000KP	1MP	10KG
	160#	–	–	–	–
	200#	–	–	–	–
	–	16BR	1600KP	1.6MP	16KG
	300#	–	–	–	–
	–	25BR	2500KP	2.5MP	25KG
	400#	–	–	–	–
	500#	–	–	–	–
	600#	40BR	4000KP	4MP	40KG
	800#	–	–	–	–
	–	60BR	6000KP	6MP	60KG
	1000#	–	–	–	–
	1500#	100BR	10000KP	10MP	100KG
	2000#	–	–	–	–
	–	160BR	16000KP	16MP	160KG
	3000#	–	–	–	–
	–	250BR	25000KP	25MP	250KG
	4000#	–	–	–	–
	5000#	–	–	–	–
	6000#	400BR	40000KP	40MP	400KG
	8000#	–	–	–	–
	–	600BR	60000KP	60MP	600KG
	10000#	–	–	–	–