

# T5500/T6500 Pressure Gauges

## FEATURES

- **PLUS!**™ Performance dampens vibration, shock and pulsation effects
- Rugged all welded stainless steel design
- Overload protection to 400% of range (XRA option for T6500)
- Low ambient temperature option for arctic conditions from -94 °F (-70 °C) for T6500 100 mm only
- Optional ATEX approved CE  II 2 GD c

## TYPICAL USES

- Offshore oil rigs
- Chemical and petrochemical plants
- Power
- Pulp and paper
- Machine equipment
- Specialized OEM equipment
- Food and beverage

## SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy:               | 1% of span (STD.), 0.5% of span (OPT.)                                                                                                                                                                                                                                                                                                            |
| Size:                   | 100 mm, 160 mm                                                                                                                                                                                                                                                                                                                                    |
| Range:                  | Vacuum, compound, pressure psi: -30in., Hg-0, 0-20,000                                                                                                                                                                                                                                                                                            |
| Process Conn. Location: | Lower, back                                                                                                                                                                                                                                                                                                                                       |
| Process Conn. Size:     | ¼ NPT Male, ½ NPT Male, G ¼ NPT, B Male, G ½ NPT B Male                                                                                                                                                                                                                                                                                           |
| Case Style:             | T5500: Open front with rear blowout disk<br>T6500: Solid front with full rear blowout back                                                                                                                                                                                                                                                        |
| Movement:               | Adjustable                                                                                                                                                                                                                                                                                                                                        |
| Window Material:        | T5500: Glass (STD.), polycarbonate, safety glass (OPT.)<br>T6500: Safety glass (STD.), polycarbonate (OPT.)                                                                                                                                                                                                                                       |
| Dial:                   | Aluminum, white background, black figures and intervals                                                                                                                                                                                                                                                                                           |
| Pointer:                | Aluminum                                                                                                                                                                                                                                                                                                                                          |
| Weather Protection:     | Dry: IP66 and NEMA 4X<br>Liquid filled: IP66/67 and NEMA 4X<br>Hermetically sealed case: IP66/67 and NEMA 4X                                                                                                                                                                                                                                      |
| Dampening Options:      | <b>PLUS!</b> ™ Performance, throttle screw, dampeners, snubbers and fill fluids                                                                                                                                                                                                                                                                   |
| Mounting:               | Stem, flush and surface                                                                                                                                                                                                                                                                                                                           |
| Approvals:              | CRN, ATEX: Conformity acc. to RL 2014/34/EU appendix X for mechanical equipment in potential hazardous areas<br>Optional, Marking CE  II 2 GD c IIC Tx: File No. 35134585 at notified body 0044, TÜV NORD CERT (only with safety glass or polycarbonate glass) |

## WETTED COMPONENTS

|                     |                     |        |
|---------------------|---------------------|--------|
| Bourdon Tube        | Process Connection  | Joints |
| 316L SS, Monel® 400 | 316 Stainless steel | Welded |



**T5500/T6500**

100 mm (shown), 160 mm dial size



## KEY BENEFITS

- High overpressure for safety (option)
- Low ambient temperature for severe environments (option)
- Weatherproof Protection IP66, NEMA 4X

## NON-WETTED COMPONENTS

| Case          | Ring   | Back Cover |
|---------------|--------|------------|
| 304 SS (STD.) | 304 SS | 304 SS     |
| 316 SS (OPT.) | 316 SS | 316 SS     |

## MIN/MAX TEMPERATURE LIMITS

| Version          | Ambient                               | Process                                | Storage                               |
|------------------|---------------------------------------|----------------------------------------|---------------------------------------|
| Dry              | -40 °F to 158 °F<br>(-40 °C to 70 °C) | -40 °F to 392 °F<br>(-40 °C to 200 °C) | -40 °F to 158 °F<br>(-40 °C to 70 °C) |
| <b>PLUS!</b> ™   | -19 °F to 158 °F<br>(-7 °C to 70 °C)  | -40 °F to 212 °F<br>(-40 °C to 100 °C) | -40 °F to 158 °F<br>(-40 °C to 70 °C) |
| Glycerin fill    | 19 °F to 158 °F<br>(-7 °C to 70 °C)   | 19 °F to 199 °F<br>(-7 °C to 93 °C)    | -40 °F to 158 °F<br>(-40 °C to 70 °C) |
| Silicone fill    | 19 °F to 158 °F<br>(-7 °C to 70 °C)   | -40 °F to 199 °F<br>(-40 °C to 93 °C)  | -40 °F to 158 °F<br>(-40 °C to 70 °C) |
| Halocarbon® fill | 19 °F to 158 °F<br>(-40 °C to 70 °C)  | -40 °F to 200 °F<br>(-40 °C to 93 °C)  | -40 °F to 158 °F<br>(-40 °C to 70 °C) |
| ATEX             | 19 °F to 158 °F<br>(-7 °C to 70 °C)   | -40 °F to 392 °F<br>(-40 °C to 200 °C) | -40 °F to 140 °F<br>(-40 °C to 60 °C) |

## T5500/T6500 Pressure Gauges

| ORDERING CODE                                                                                                                                                                                                                                      | Example: | 10T5500 | S | D | 02 | L | 15# | XC4 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|---|---|----|---|-----|-----|
| <b>Dial Size/Model Code</b>                                                                                                                                                                                                                        |          |         |   |   |    |   |     |     |
| 10T5500 -100 mm - 304 Stainless steel case, open front                                                                                                                                                                                             |          | 10T5500 |   |   |    |   |     |     |
| 16T5500 -160 mm - 304 Stainless steel case, open front                                                                                                                                                                                             |          |         |   |   |    |   |     |     |
| 10T6500 -100 mm - 304 Stainless steel case, solid front                                                                                                                                                                                            |          |         |   |   |    |   |     |     |
| 16T6500 -160 mm - 304 Stainless steel case, solid front                                                                                                                                                                                            |          |         |   |   |    |   |     |     |
| <b>System</b> (tube and process connection)                                                                                                                                                                                                        |          |         |   |   |    |   |     |     |
| S - 316L Stainless steel                                                                                                                                                                                                                           |          |         | S |   |    |   |     |     |
| P - Monel® 400                                                                                                                                                                                                                                     |          |         |   |   |    |   |     |     |
| <b>Case Design</b>                                                                                                                                                                                                                                 |          |         |   |   |    |   |     |     |
| D - Dry                                                                                                                                                                                                                                            |          |         |   | D |    |   |     |     |
| L - Liquid fill (Ranges < 45PSI are N/A with glycerin fill. Fill fluid must be silicone)                                                                                                                                                           |          |         |   |   |    |   |     |     |
| <b>Process Connection Sizes</b>                                                                                                                                                                                                                    |          |         |   |   |    |   |     |     |
| 02 - ¼ NPT Male                                                                                                                                                                                                                                    |          |         |   |   | 02 |   |     |     |
| 04 - ½ NPT Male                                                                                                                                                                                                                                    |          |         |   |   |    |   |     |     |
| 13 - G ¼ Male                                                                                                                                                                                                                                      |          |         |   |   |    |   |     |     |
| 15 - G ½ Male                                                                                                                                                                                                                                      |          |         |   |   |    |   |     |     |
| <b>Process Connection Location</b>                                                                                                                                                                                                                 |          |         |   |   |    |   |     |     |
| L - Lower                                                                                                                                                                                                                                          |          |         |   |   |    | L |     |     |
| B - Back (T5500 only)                                                                                                                                                                                                                              |          |         |   |   |    |   |     |     |
| <b>Range</b> (coding examples only, see range table on page 4 for all standard ranges)                                                                                                                                                             |          |         |   |   |    |   |     |     |
| <b>Single Scales</b>                                                                                                                                                                                                                               |          |         |   |   |    |   |     |     |
| 15# - 15 psi                                                                                                                                                                                                                                       |          |         |   |   |    |   | 15# |     |
| 1KG - 1 kg/cm <sup>2</sup>                                                                                                                                                                                                                         |          |         |   |   |    |   |     |     |
| 1BR - 1 bar                                                                                                                                                                                                                                        |          |         |   |   |    |   |     |     |
| 160KP -160 kilopascal                                                                                                                                                                                                                              |          |         |   |   |    |   |     |     |
| <b>Options</b> (If choosing an option(s) must include an "X") (See table 1 on page 3 for more options)                                                                                                                                             |          |         |   |   |    |   |     |     |
| LL - <b>PLUS!</b> ™ Performance                                                                                                                                                                                                                    |          |         |   |   |    |   |     | X__ |
| NZ - <b>PLUS!</b> ™ Performance, silicone free                                                                                                                                                                                                     |          |         |   |   |    |   |     |     |
| NH - Stainless steel tag wired to case                                                                                                                                                                                                             |          |         |   |   |    |   |     |     |
| 6B - Cleaned for gaseous oxygen service (N/A for T5500)                                                                                                                                                                                            |          |         |   |   |    |   |     |     |
| C4 - <a href="#">Traceable calibration certificate</a>                                                                                                                                                                                             |          |         |   |   |    |   |     | C4  |
| 5G - Attach one accessory to gauge. Applicable to PL02 pressure limiting valve V02,V03 valves, 1098, 1100, 1198, 2198 siphons, 7001, 7004 needle valves, 1115 capillary, 1106 pulsation dampner, 1112, PD02 pressure snubbers, MDV swivel adapter. |          |         |   |   |    |   |     |     |

When selecting a diaphragm seal or isolation ring, refer to the [Min/Max Guide](#) for compatibility with this gauge or scan the QR code to the right.



## T5500/T6500 Pressure Gauges

**TABLE 1** (Ordering Codes Continued)

| CODE | OPTION                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| AJ   | Calibration 0.5% full scale                                                                                                             |
| AX   | ATEX                                                                                                                                    |
| D3   | DuraVis™ Retroreflective Dial (100 mm only)                                                                                             |
| E6   | Dial pin at 6 o'clock position                                                                                                          |
| FF   | Front Flange (100 mm only)                                                                                                              |
| OS   | Overload stop                                                                                                                           |
| PD   | Polycarbonate window                                                                                                                    |
| QC   | Low temperature silicone fill for ambient temperature down to -94 °F (-70 °C), including Fluorosilicone sealing (for 100 mm T6500 only) |
| RA   | High Over Pressure for T6500. (Please refer to T6500 XRA data sheet for availability)                                                   |
| SG   | Safety glass (Std. on T6500)                                                                                                            |
| SH   | Red set hand, stationary                                                                                                                |
| TU   | Throttle plug                                                                                                                           |
| VS   | Underload stop                                                                                                                          |
| YW   | 316L Stainless steel case                                                                                                               |

## T5500/T6500 Pressure Gauges

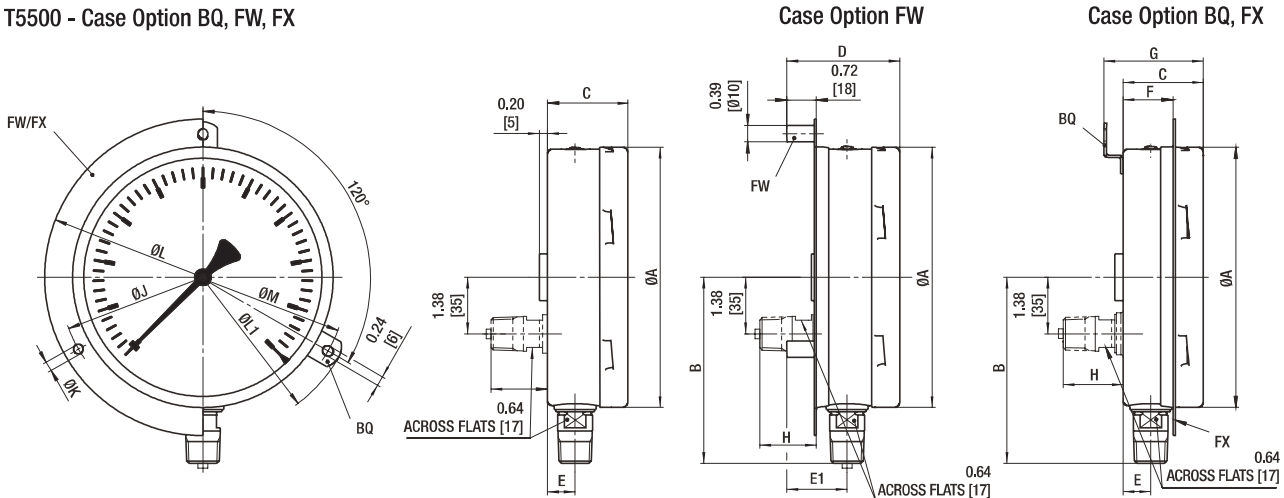
| RANGES - T5500, T6500 |        |          |            |           |                    |
|-----------------------|--------|----------|------------|-----------|--------------------|
|                       | psi    | bar      | kPa        | MPa       | kg/cm <sup>2</sup> |
| Vacuum                | 30IMV  | N1BR     | N100KP     | N1MP      | N1KG               |
|                       | –      | N1/.6BR  | N100/60KP  | .1/.06MP  | N1/.6KG            |
|                       | V/15#  | –        | –          | –         | –                  |
| Compound              | –      | 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              |
| Positive Pressure     | 30#    | –        | –          | –         | –                  |
|                       | –      | 2.5BR    | 250KP      | .25MP     | 2.5KG              |
|                       | 60#    | 4BR      | 400KP      | .4MP      | 4KG                |
|                       | –      | 6BR      | 600KP      | .6MP      | 6KG                |
|                       | 100#   | –        | –          | –         | –                  |
|                       | 120#   | –        | –          | –         | –                  |
|                       | –      | 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# | –        | –          | –         | –                  |
|                       | 15000# | 1000BR   | 100000KP   | 100MP     | 1000KG             |
|                       | –      | 1400BR   | –          | –         | –                  |
|                       | 20000# | –        | –          | –         | –                  |

# T5500/T6500 Pressure Gauges

## DIMENSIONS in [ ] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings.

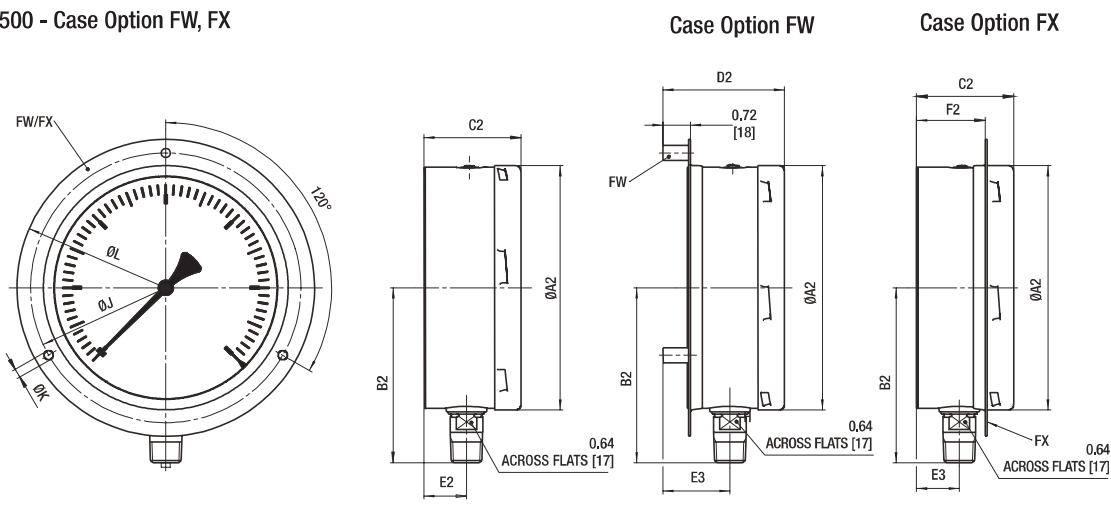
### T5500 - Case Option BQ, FW, FX



### T5500 - Case Options BQ, FW, FF

| Dial Size | A             | B             | C            | D            | E              | E1             | F            | G            | H            | J             | K           | L             | L1            | M             | Weight                    |
|-----------|---------------|---------------|--------------|--------------|----------------|----------------|--------------|--------------|--------------|---------------|-------------|---------------|---------------|---------------|---------------------------|
| 100 mm    | 3.97<br>[101] | 3.36<br>[85]  | 2.01<br>[51] | 2.72<br>[69] | 0.73<br>[18.5] | 1.44<br>[36.5] | 1.26<br>[32] | 2.48<br>[63] | 1.38<br>[35] | 4.65<br>[118] | 0.24<br>[6] | 5.20<br>[132] | 5.28<br>[134] | 4.02<br>[103] | Dry 2.0 lbs<br>LF 4.4 lbs |
| 160 mm    | 6.35<br>[161] | 4.54<br>[115] | 1.96<br>[50] | 2.76<br>[70] | 0.67<br>[17]   | 1.47<br>[37]   | 1.22<br>[31] | 2.43<br>[62] | 1.46<br>[37] | 7.01<br>[178] | 0.24<br>[6] | 7.72<br>[196] | 7.64<br>[194] | 7.50<br>[179] | Dry 2.7 lbs<br>LF 5.0 lbs |

### T6500 - Case Option FW, FX



### T6500 - Case Options FW, FX

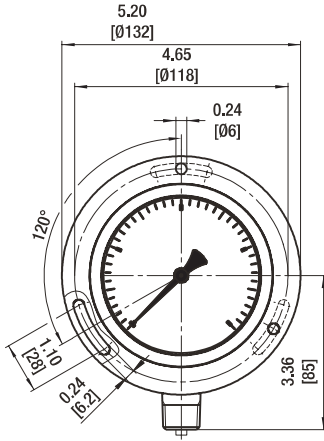
| Dial Size | A2            | B2            | C2           | D2           | E2           | E3           | F2           | J             | K           | L             | Weight                    |
|-----------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|---------------|---------------------------|
| 100 mm    | 3.97<br>[101] | 3.36<br>[85]  | 2.38<br>[61] | 2.91<br>[74] | 1.02<br>[26] | 1.55<br>[39] | 1.63<br>[42] | 4.65<br>[118] | 0.24<br>[6] | 5.20<br>[132] | Dry 2.0 lbs<br>LF 4.4 lbs |
| 160 mm    | 6.35<br>[161] | 4.54<br>[115] | 2.52<br>[64] | 3.15<br>[80] | 1.11<br>[28] | 1.74<br>[44] | 1.78<br>[45] | 7.01<br>[178] | 0.24<br>[6] | 7.72<br>[196] | Dry 2.7 lbs<br>LF 5.0 lbs |

# T5500/T6500 Pressure Gauges

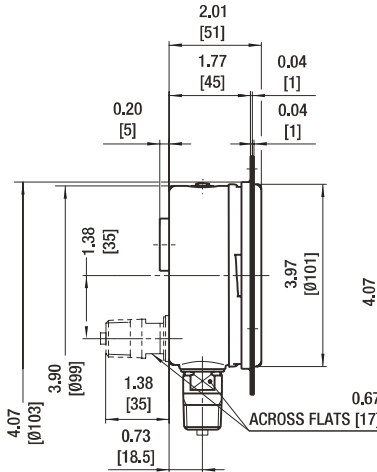
## DIMENSIONS in [ ] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings.

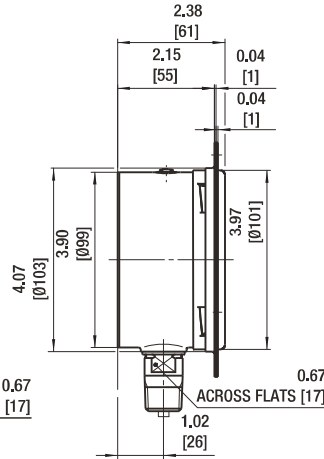
T5500, T6500 100 mm - Case Option FF



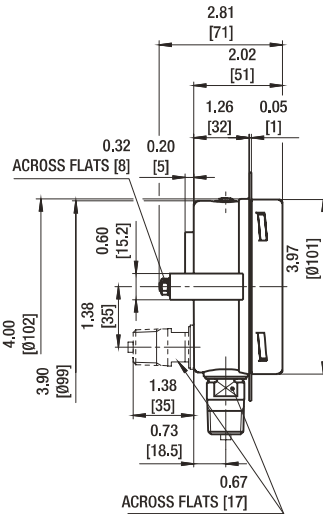
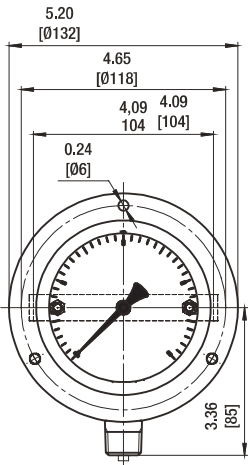
T5500 - 100 mm



T6500 - 100 mm



T5500, 100 mm - Case Option UF



T5500, 160 mm - Case Option UF

