

Turbo Pro™ Multivariable Flowmeter

Model Pro-T™ Insertion Turbine Mass Flow Meter



VorTek Instruments' Model Pro-T™ multivariable flowmeters utilize three primary sensing elements—a turbine sensor, an RTD temperature sensor, and a solid-state pressure transducer—to measure the mass flow rate of gases, liquids and steam. Because the TurboPro™ is able to measure all process variables within a single device it provides exceptional accuracy, simplifies system design and reduces installation costs.



They are easily installed with flanged or Male NPT process connections in any pipe size of two-inches and greater. Optional retractor or "hot-tap" hardware simplifies maintenance operations.

TurboPro™ Model Pro-T™ provides excellent rangeability and can measure very low flow rates with negligible permanent pressure drop. Additionally rotors are interchangeable, making this meter a good choice for installations with step changes in seasonal flow rates. To simplify installation and commissioning, all measured variables and programming menus are available on the instrument's easy to use display and control pad.

The product line is available with a wide range of options and meter configurations to meet your specific application requirements.

Pro-T™ Advantage:

- Volumetric or mass flow monitoring of most liquids, gases, and steam
- Multivariable meter delivers mass flow, temperature, pressure, and density readings from a single installed device and reduces initial cost, installation cost and cost-of ownership over the lifetime of the instrument
- Compensated mass flow reading of liquids, gases, and steam
- Easy to install and commission—Hot tappable, process shut down not required for installation
- High accuracy with rangeability up to 17:1
- Temperature -450 to 850°F
- Pressure up to 1500 psig
- Insertion style mounting permits installation in any pipe 2" and greater
- Field configurable ranges, outputs and displays
- Remote electronics option available for use in harsh environments or locations with limited access
- 4-20mA loop—powered Mass Meter design saves on energy costs
- HART protocol communications - Standard
- Modbus, BACnet communications available
- FM, FMC, ATEX, IECEx Approved



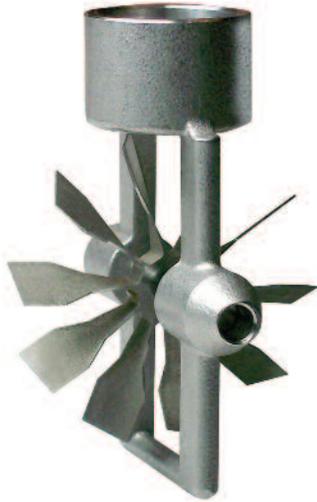
VorTek
INSTRUMENTS

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TurboPro™ Principle of Operation

Insertion turbine flow meters measure flows of liquid, gas, and steam by detecting the frequency of rotation of the turbine blades. According to the proven laws of physics, the frequency at which the turbine rotates is directly proportional to the flow velocity.

Insertion turbine flow meters measure flow by detecting the local velocity at a strategically located position within the pipe. The TurboPro™ detects the frequency within the sensor head. It uses the local velocity, along with other parameters such as fluid type, pipe size, and Reynolds Number to calculate the average pipe velocity, and consequently, the volumetric flow rate.



TurboPro™ Model Pro-T™-VTP

The Model Pro-T™ offers you flow computer functionality in a compact field device. This multivariable instrument incorporates temperature and pressure sensors to provide an instantaneous reading of the compensated mass flow rate of gases, liquids and steam. In addition to outputs for totalized mass and alarm settings, the field-configurable electronics deliver up to three analog 4-20 mA outputs of five process measurements, including volumetric flow rate, mass flow rate, pressure, temperature and density.

TurboPro™ Model Pro-T™-VT

The Model Pro-T™-VT integrates a precision 1000 Ohm platinum RTD temperature sensor that can be used to calculate and output a compensated mass reading. This device is typically used to measure flow rates of saturated steam.

TurboPro™ Model Pro-T™-V

The Model Pro-T™-V delivers a direct reading of volumetric flow rate—generally the most cost-effective solution for liquid flow monitoring—in applications ranging from general water flows to hydrocarbon fuel flow measurement.

TurboPro™ Model Pro-T™-EM

The Model Pro-T™-EM Energy Monitoring option permits real-time calculation of energy consumption for a facility or process. The meter can be programmed to measure steam, hot water or chilled water. The Model Pro-T™-EM flowmeter monitors one side of the process, either sent or returned, and uses the input from a second separate temperature sensor on the opposite leg of the process to calculate the change in energy. Selectable energy units include Btu, joules, calories, Watt-hours, Megawatt-hours and Horsepower-hours. The local or remote electronics indicate two temperatures, delta T, mass total and energy total.

TurboPro™ Model Pro-T™-VTEP, VETEP

Similar to Pro-T-VTP but with the option for an external input (T or P) via RTD or 4-20mA or one of each

Performance Specifications

Accuracy

Mass flow rate accuracy for gas and steam based on 50-100% of pressure range.

| Turbo Pro™ Model Pro-T™ Multivariable Flowmeter | | |
|---|---------------------|---------------------|
| Process Variables | Liquids | Gas & Steam |
| Volumetric Flow Rate | ± 1.2% of Rate | ± 1.5% of Rate |
| Mass Flow Rate | ± 1.5% of Rate | ± 2.0% of Rate |
| Temperature | ± 2°F (± 1°C) | ± 2°F (± 1°C) |
| Pressure | ± .3% of Full Scale | ± .3% of Full Scale |
| Density | ± .3% of Reading | ± .5% of Reading |

Repeatability

Mass Flow Rate ± .2% of rate
 Volumetric Flow Rate ± .1% of rate
 Temperature ± .2°F (± .1°C)
 Pressure ± .05% of full scale
 Density ± .1% of reading

Stability Over 12 Months

Mass Flow Rate ± .2% of rate
 Volumetric Flow Rate ± negligible
 Temperature ± .9°F (± .5°C)
 Pressure ± .1% of full scale
 Density ± .1% of reading

Response Time

Adjustable from 1 to 100 seconds

Operating Specifications

Any gas, liquid or steam compatible with 316L stainless steel and other listed wetted materials. Not recommended for multi-phase fluids.

Process and Ambient Temperature

Process Standard Temperature (code ST): -67 to 450°F (-55 to 238°C)
 Process High Temperature (code HT): -488 to 850°F (-267 to 454°C)
 Ambient Operating: -40 to 140°F (-40 to 60°C)
 Ambient Storage: -40 to 185°F (-40 to 85°C)

| Pressure Transducer Ratings | | | |
|-------------------------------|------|--------------------------|------|
| Full Scale Operating Pressure | | Max. Over-Range Pressure | |
| psia | bara | psia | bara |
| 30 | 2 | 60 | 4 |
| 100 | 7 | 200 | 14 |
| 300 | 20 | 600 | 40 |
| 500 | 35 | 1000 | 70 |
| 1500 | 100 | 2500 | 175 |



| Pressure Ratings | | | |
|-------------------------------------|-----------------------|--------------------|-----------|
| Style Connection | Process | Rating Code | Ordering |
| Compression Fitting | 2-inch Male NPT | ANSI 600 lb. | CNPT |
| | 2-inch 150 lb. flange | ANSI 150 lb. | C150 |
| | 2-inch 300 lb. flange | ANSI 300 lb. | C300 |
| | 2-inch 600 lb. flange | ANSI 600 lb. | C600 |
| Packing Gland | 2-inch Male NPT | 50 Psig (3.5 BarG) | PNPT |
| | 2-inch 150 lb. flange | 50 Psig (3.5 BarG) | P150 |
| | 2-inch 300 lb. flange | 50 Psig (3.5 BarG) | P300 |
| Packing Gland & Removable Retractor | 2-inch Male NPT | ANSI 300 lb. | PNPT & RR |
| | 2-inch 150 lb. flange | ANSI 150 lb. | P150 & RR |
| | 2-inch 300 lb. flange | ANSI 300 lb. | P300 & RR |
| Packing Gland & Permanent Retractor | 2-inch Male NPT | ANSI 600 lb. | PNPTR |
| | 2-inch 150 lb. flange | ANSI 150 lb. | P150R |
| | 2-inch 300 lb. flange | ANSI 300 lb. | P300R |
| | 2-inch 600 lb. flange | ANSI 600 lb. | P600R |

Power Requirements

DCL option: 12-36 VDC, 25mA, 1W max, loop powered (single output)
 DCH option: 12-36 VDC, 300mA, 9W max, (multiple outputs)
 AC option: 100-240 VAC, 50/60Hz line power, 5W (multiple outputs)

Display

Alphanumeric 2 line x 16 character LCD digital display
 Six pushbuttons for full field configuration
 Pushbuttons can be operated with magnetic wand without removal of the enclosure covers
 Display can be mounted in 90° intervals for better viewing

Output Signals

Analog: 4-20 mA
 Alarm: Solid state relay, 40 VDC
 Totalizer Pulse: 50 millisecond pulse, 40 VDC
 Volumetric or Loop Powered Mass: One analog, one totalizer pulse, HART, scaled frequency output
 Multivariable option: Up to three analog signals, three alarms, one totalizer pulse, HART, scaled frequency output
 Multivariable option: Modbus or BACnet process monitoring

Physical Specifications

Wetted Materials

316L, 302, and 17-4PH, and 18-8 stainless steel, tungsten carbide, sapphire, plus:

- DuPont Teflon® based thread sealant on models with pressure transducer.
- DuPont Teflon® packing on standard temperature models with packing gland.
- Graphite based packing on high temperature models with packing gland.

Approvals

FM, FMC CLASS I, DIV. 1, GROUPS B,C,D
 CLASS II/III, DIV. 1, GROUPS E,F,G
 Type 4X and IP66, T6, Ta = -40 to 60°C
 ATEX II 2 G Ex d IIB + H2 T6
 II 2 D EX tD A21 IP66 T85°C, Ta = -40 to 60°C
 IECEx Ex d IIB + H2 T6
 Ex tD A21 IP66 T85°C, Ta = -40 to 60°C

Sizing Considerations

| Piping Conditions | | |
|---|-------------------|------------|
| Condition | Pipe Diameters, D | |
| | Upstream | Downstream |
| One 90° elbow before meter | 10D | 5D |
| Two 90° elbows before meter | 15D | 5D |
| Two 90° elbows before meter, out of plane | 30D | 10D |
| Reduction before meter | 10D | 5D |
| Expansion before meter | 20D | 5D |
| Partially open valve | 30D | 10D |

Velocity Range

Maximum velocity, liquid: 30 feet/sec (9 meters/second)
 Minimum velocity, liquid: 0.5 feet/sec (0.15 meters/sec)
 Maximum velocity, gas or steam: 43 to 205 feet/sec (13 to 62 meters/sec)
 depending on rotor pitch
 Minimum velocity, gas or steam feet/sec (meters/second): 3.5 to 12 feet/sec
 (1 to 3.7 meters/sec) depending on rotor pitch

Consult the VorTek Instruments Sizing Program @vortekinst.com for easy calculation of flow range.

| Water Minimum and Maximum Flow Rates | | | | | | | |
|--------------------------------------|------------------------|------|------|------|-------|-------|-------|
| Rate | Nominal Pipe Size (in) | | | | | | |
| | 2 | 3 | 6 | 8 | 12 | 16 | 24 |
| GPM min | 5 | 12 | 54 | 109 | 247 | 386 | 877 |
| GPM max | 314 | 691 | 2701 | 4678 | 10575 | 16524 | 37590 |
| | Nominal Pipe Size (mm) | | | | | | |
| | 50 | 80 | 150 | 200 | 300 | 400 | 600 |
| m³/hr min | 1.19 | 2.62 | 12.3 | 24.8 | 56.0 | 87.6 | 199 |
| m³/hr max | 71.3 | 157 | 614 | 1062 | 2402 | 3753 | 8538 |



| Typical Air Minimum and Maximum Flow Rates (SCFM) Air at Standard Process Conditions 70°F, 14.6959 PSIA | | | | | | |
|--|------------------------|-------|-------|--------|--------|--------|
| Pressure | Nominal Pipe Size (in) | | | | | |
| Rotor-R40 | 3 | 6 | 8 | 12 | 16 | 24 |
| 0 psig | 7 | 29 | 51 | 120 | 198 | 492 |
| | 98 | 404 | 714 | 1660 | 2729 | 6702 |
| 100 psig | 20 | 83 | 147 | 343 | 566 | 1401 |
| | 790 | 3252 | 5741 | 13313 | 21791 | 53019 |
| 200 psig | 28 | 115 | 203 | 473 | 780 | 1927 |
| | 1494 | 6146 | 10846 | 25128 | 41083 | 99739 |
| Rotor-R30 | | | | | | |
| 0 psig | 8 | 33 | 59 | 137 | 227 | 564 |
| | 143 | 590 | 1043 | 2426 | 3984 | 9765 |
| 100 psig | 23 | 95 | 169 | 393 | 648 | 1603 |
| | 1153 | 4746 | 8376 | 19412 | 31753 | 77152 |
| 200 psig | 32 | 131 | 232 | 542 | 893 | 2205 |
| | 2181 | 8964 | 15814 | 36617 | 59832 | 145094 |
| Rotor-R20 | | | | | | |
| 0 psig | 14 | 59 | 104 | 243 | 402 | 996 |
| | 230 | 951 | 1680 | 3904 | 6406 | 15665 |
| 100 psig | 41 | 169 | 298 | 695 | 1144 | 2823 |
| | 1855 | 7628 | 13458 | 31168 | 50942 | 123591 |
| | 56 | 232 | 411 | 957 | 1575 | 3879 |
| | 3506 | 14397 | 25389 | 58747 | 95927 | 232348 |
| Rotor-R10 | | | | | | |
| 0 psig | 25 | 102 | 181 | 422 | 696 | 1720 |
| | 478 | 1968 | 3476 | 8067 | 13217 | 32219 |
| 100 psig | 71 | 292 | 516 | 1202 | 1977 | 4862 |
| | 3831 | 15728 | 27734 | 64166 | 104762 | 253698 |
| 200 psig | 97 | 402 | 711 | 1654 | 2719 | 6678 |
| | 7230 | 29650 | 52259 | 120804 | 197092 | 476732 |

| Typical Air Minimum and Maximum Flow Rates (nm3/hr) Air at Standard Conditions 20°C, 1.0133 BARA | | | | | | |
|---|------------------------|-------|-------|--------|--------|--------|
| Pressure | Nominal Pipe Size (mm) | | | | | |
| Rotor-R40 | 80 | 150 | 200 | 300 | 400 | 600 |
| 0 barg | 11 | 46 | 81 | 189 | 312 | 777 |
| | 154 | 639 | 1130 | 2628 | 4320 | 10607 |
| 5 barg | 27 | 114 | 202 | 471 | 777 | 1925 |
| | 946 | 3898 | 6884 | 15969 | 26152 | 63694 |
| 10 barg | 37 | 155 | 275 | 642 | 1059 | 2619 |
| | 1751 | 7205 | 12718 | 29476 | 48216 | 117169 |
| Rotor-R30 | | | | | | |
| 0 barg | 13 | 52 | 93 | 217 | 358 | 891 |
| | 226 | 934 | 1651 | 3839 | 6306 | 15455 |
| 5 barg | 31 | 131 | 231 | 540 | 890 | 2204 |
| | 1382 | 5690 | 10046 | 23290 | 38115 | 92698 |
| 10 barg | 43 | 178 | 316 | 736 | 1213 | 2998 |
| | 2556 | 10511 | 18548 | 42965 | 70237 | 170473 |
| Rotor-R20 | | | | | | |
| 0 barg | 22 | 93 | 165 | 385 | 635 | 1574 |
| | 365 | 1505 | 2660 | 6179 | 10139 | 24794 |
| 5 barg | 56 | 231 | 410 | 955 | 1573 | 3882 |
| | 2224 | 9149 | 18145 | 37407 | 61186 | 148520 |
| 10 barg | 76 | 315 | 558 | 1300 | 2141 | 5275 |
| | 4110 | 16888 | 29789 | 68956 | 112643 | 273032 |
| Rotor-R10 | | | | | | |
| 0 barg | 39 | 161 | 286 | 667 | 1099 | 2718 |
| | 756 | 3115 | 5502 | 12768 | 20919 | 50995 |
| 5 barg | 97 | 401 | 709 | 1651 | 2717 | 6687 |
| | 4595 | 18874 | 33290 | 77048 | 125842 | 304938 |
| 10 barg | 132 | 546 | 966 | 2248 | 3696 | 9082 |
| | 8481 | 34799 | 61349 | 141871 | 231535 | 560318 |

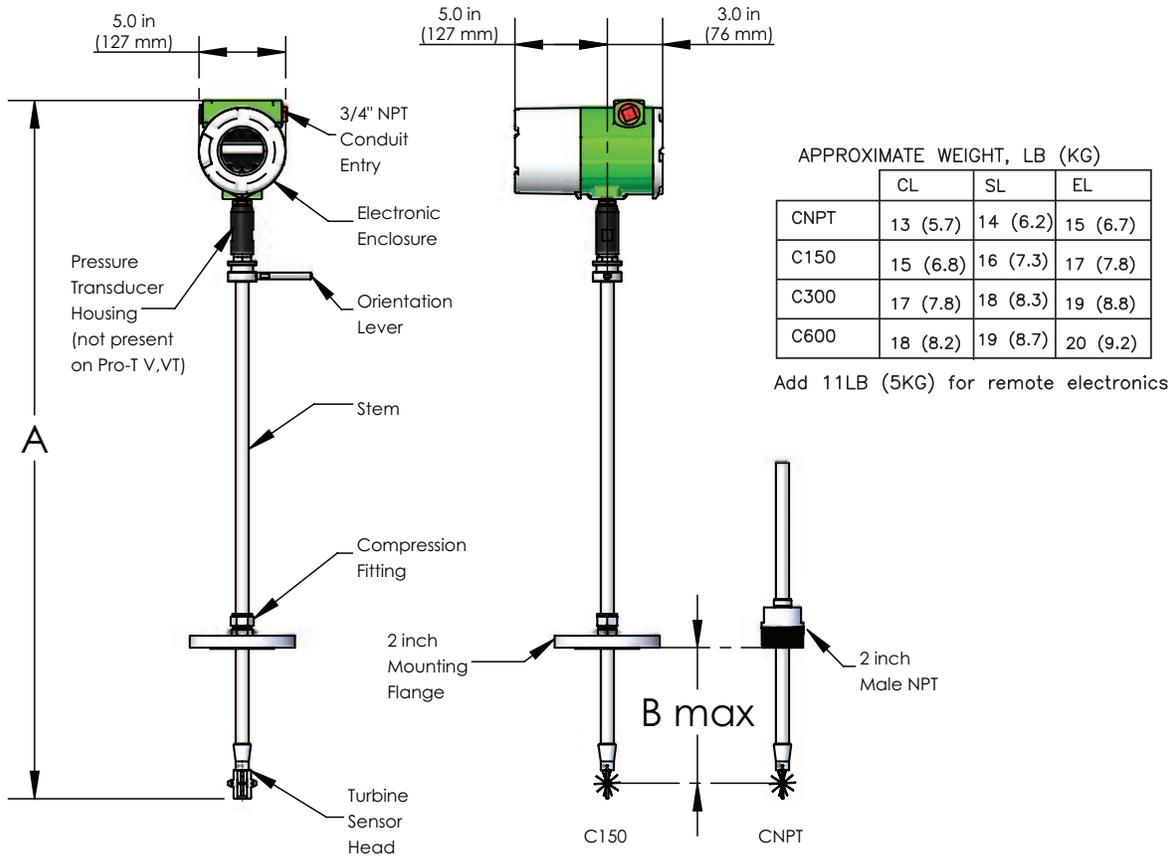
| Typical Saturated Steam Minimum and Maximum Flow Rates (lb/hr) | | | | | | |
|--|------------------------|-------|-------|-------|--------|--------|
| Pressure | Nominal Pipe Size (in) | | | | | |
| Rotor-R40 | 3 | 4 | 6 | 8 | 10 | 12 |
| 5 psig | 25 | 45 | 105 | 187 | 300 | 437 |
| | 287 | 504 | 1187 | 2098 | 3357 | 4883 |
| 100 psig | 59 | 104 | 245 | 435 | 697 | 1015 |
| | 1540 | 2702 | 6350 | 11216 | 17924 | 26034 |
| 200 psig | 80 | 141 | 333 | 590 | 945 | 1377 |
| | 2827 | 4957 | 11643 | 20558 | 32844 | 47681 |
| Rotor-R30 | | | | | | |
| 5 psig | 29 | 51 | 121 | 214 | 344 | 501 |
| | 420 | 737 | 1735 | 3068 | 4907 | 7135 |
| 100 psig | 68 | 119 | 281 | 499 | 799 | 1164 |
| | 2251 | 3947 | 9272 | 16373 | 26160 | 37984 |
| 200 psig | 92 | 162 | 382 | 677 | 1083 | 1578 |
| | 4129 | 7238 | 16994 | 29996 | 47911 | 69532 |
| Rotor-R20 | | | | | | |
| 5 psig | 52 | 91 | 215 | 380 | 610 | 888 |
| | 677 | 1189 | 2797 | 4943 | 7902 | 11485 |
| 100 psig | 120 | 211 | 499 | 883 | 1414 | 2058 |
| | 3623 | 6352 | 14915 | 26328 | 42053 | 61035 |
| 200 psig | 163 | 287 | 676 | 1197 | 1917 | 2790 |
| | 6643 | 11641 | 27317 | 48203 | 76969 | 111658 |
| Rotor-R10 | | | | | | |
| 5 psig | 90 | 158 | 373 | 660 | 1057 | 1539 |
| | 1405 | 2464 | 5790 | 10227 | 16343 | 23736 |
| 100 psig | 209 | 367 | 864 | 1529 | 2447 | 3561 |
| | 7490 | 13123 | 30791 | 54325 | 86735 | 125807 |
| 200 psig | 283 | 497 | 1172 | 2073 | 3316 | 4825 |
| | 13719 | 24028 | 56341 | 99362 | 158587 | 229926 |

| Typical Saturated Steam Minimum and Maximum Flow Rates (kg/hr) | | | | | | |
|--|------------------------|------|-------|-------|-------|-------|
| Pressure | Nominal Pipe Size (mm) | | | | | |
| Rotor-R40 | 80 | 150 | 200 | 300 | 400 | 600 |
| 1.4 barg | 15 | 27 | 63 | 112 | 179 | 261 |
| | 225 | 395 | 929 | 1642 | 2626 | 3817 |
| 5 barg | 23 | 41 | 98 | 173 | 277 | 404 |
| | 537 | 943 | 2216 | 3915 | 6257 | 9090 |
| 10 barg | 31 | 55 | 131 | 232 | 371 | 541 |
| | 962 | 1687 | 3963 | 6999 | 11183 | 16239 |
| Rotor-R30 | | | | | | |
| 1.4 barg | 17 | 31 | 72 | 128 | 205 | 299 |
| | 329 | 577 | 1358 | 2399 | 3836 | 5575 |
| 5 barg | 27 | 47 | 112 | 198 | 318 | 463 |
| | 785 | 1377 | 3237 | 5716 | 9134 | 13265 |
| 10 barg | 36 | 63 | 150 | 266 | 425 | 620 |
| | 1405 | 2463 | 5786 | 10215 | 16318 | 23687 |
| Rotor-R20 | | | | | | |
| 1.4 barg | 31 | 54 | 128 | 227 | 363 | 529 |
| | 530 | 930 | 2187 | 3863 | 6174 | 8968 |
| 5 barg | 48 | 84 | 198 | 351 | 562 | 819 |
| | 1265 | 2217 | 5207 | 9194 | 14688 | 21322 |
| 10 barg | 64 | 113 | 266 | 470 | 753 | 1096 |
| | 2261 | 3963 | 9303 | 16419 | 26222 | 38049 |
| Rotor-R10 | | | | | | |
| 1.4 barg | 54 | 94 | 222 | 393 | 630 | 917 |
| | 1098 | 1925 | 4522 | 7985 | 12757 | 18520 |
| 5 barg | 83 | 146 | 344 | 608 | 973 | 1417 |
| | 2615 | 4583 | 10755 | 18979 | 30307 | 43967 |
| 10 barg | 111 | 195 | 460 | 814 | 1303 | 1895 |
| | 4672 | 8185 | 19197 | 33862 | 54055 | 78386 |

* Rotors R25 and R15 are also available.



Dimensional Outline: Pro-T™ Compression Fitting Models



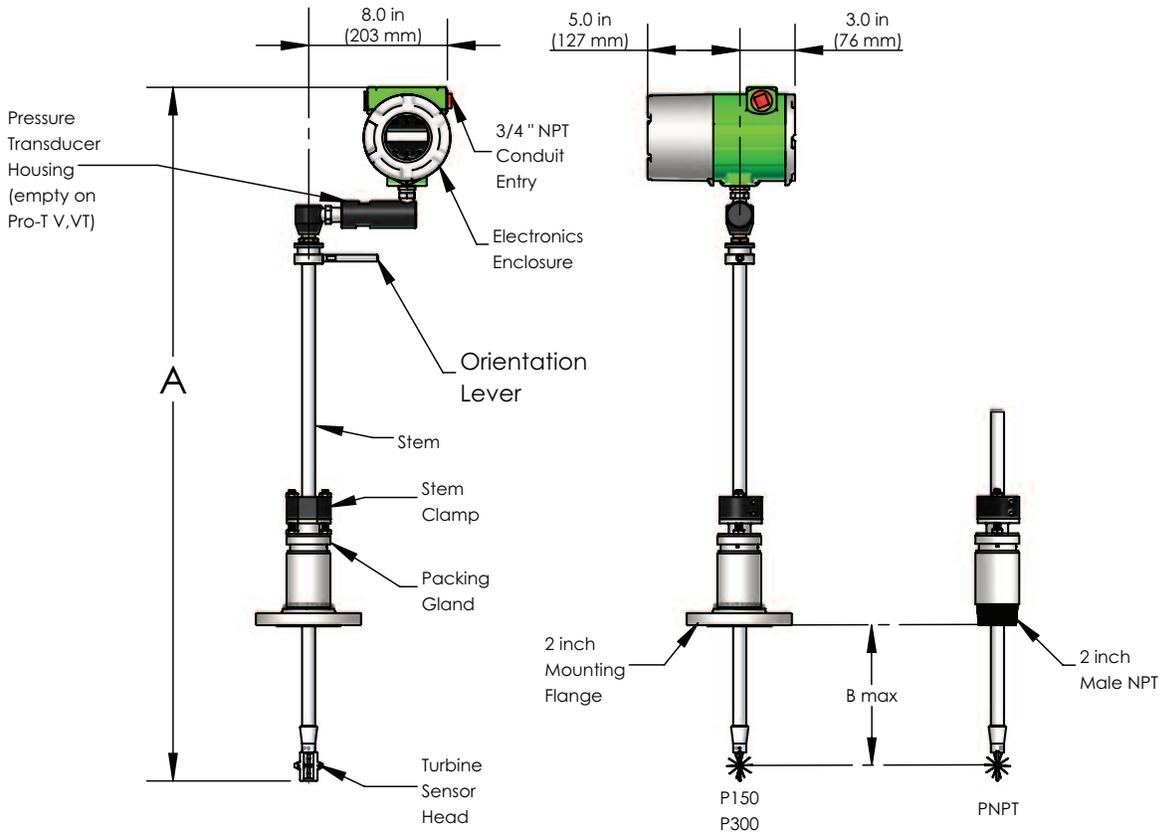
| MODEL Pro-T V,VT in (mm) VTEP, VETEP | CL/Compact Length | | SL/Standard Length | | EL/Extended Length | |
|---|-------------------|------------|--------------------|------------|--------------------|------------|
| | A | B | A | B | A | B |
| CNPT, Compression Fitting, Male NPT | 21.1 (536) | 9.0 (229) | 37.5 (953) | 25.4 (645) | 49.5 (1257) | 37.4 (950) |
| C150, Compression Fitting, 150 lb. Flange | 21.1 (536) | 10.1 (257) | 37.5 (953) | 26.5 (673) | 49.5 (1257) | 38.5 (978) |
| C300, Compression Fitting, 300 lb. Flange | 21.1 (536) | 10.0 (254) | 37.5 (953) | 26.4 (671) | 49.5 (1257) | 38.4 (975) |
| C600, Compression Fitting, 600 lb. Flange | 21.1 (536) | 9.6 (244) | 37.5 (953) | 26.0 (660) | 49.5 (1257) | 38.0 (965) |

| MODEL Pro-T VTP in (mm) | CL/Compact Length | | SL/Standard Length | | EL/Extended Length | |
|---|-------------------|------------|--------------------|------------|--------------------|------------|
| | A | B | A | B | A | B |
| CNPT, Compression Fitting, Male NPT | 24.1 (612) | 9.0 (229) | 40.5 (1029) | 25.4 (645) | 52.5 (1334) | 37.4 (950) |
| C150, Compression Fitting, 150 lb. Flange | 24.1 (612) | 10.1 (257) | 40.5 (1029) | 26.5 (673) | 52.5 (1334) | 38.5 (978) |
| C300, Compression Fitting, 300 lb. Flange | 24.1 (612) | 10.0 (254) | 40.5 (1029) | 26.4 (671) | 52.5 (1334) | 38.4 (975) |
| C600, Compression Fitting, 600 lb. Flange | 24.1 (612) | 9.6 (244) | 40.5 (1029) | 26.0 (660) | 52.5 (1334) | 38.0 (965) |





REMOVABLE RETRACTOR CAN BE USED WITH THESE MODELS



| MODEL Pro-T in (mm) | SL/Standard Length | | EL/Extended Length | |
|-------------------------------------|--------------------|------------|--------------------|------------|
| | A | B | A | B |
| PNPT, Packing Gland, Male NPT | 40.0 (1016) | 20.7 (526) | 52.0 (1321) | 32.7 (831) |
| P150, Packing Gland, 150 lb. Flange | 40.0 (1016) | 20.3 (516) | 52.0 (1321) | 32.3 (820) |
| P300, Packing Gland, 300 lb. Flange | 40.0 (1016) | 20.3 (516) | 52.0 (1321) | 32.3 (820) |

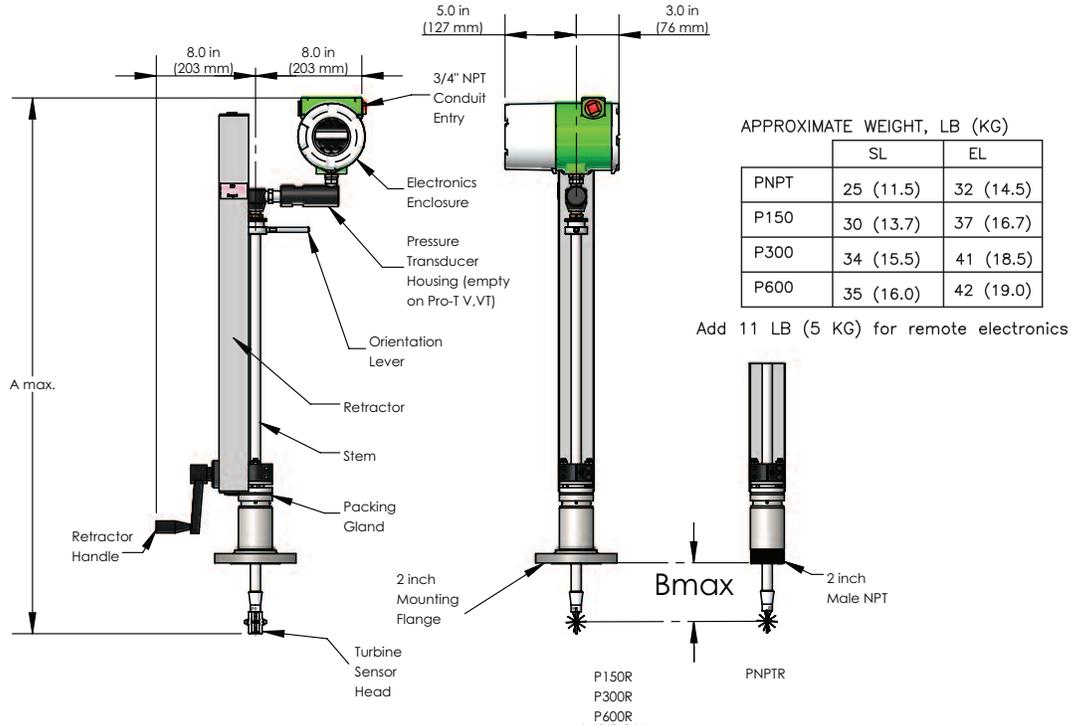
APPROXIMATE WEIGHT, LB (KG)

| | SL | EL |
|------|-----------|-----------|
| PNPT | 16 (7.1) | 17 (7.6) |
| P150 | 21 (9.4) | 22 (9.9) |
| P300 | 25 (11.3) | 26 (11.8) |

Add 11 LB (5 KG) for remote electronics



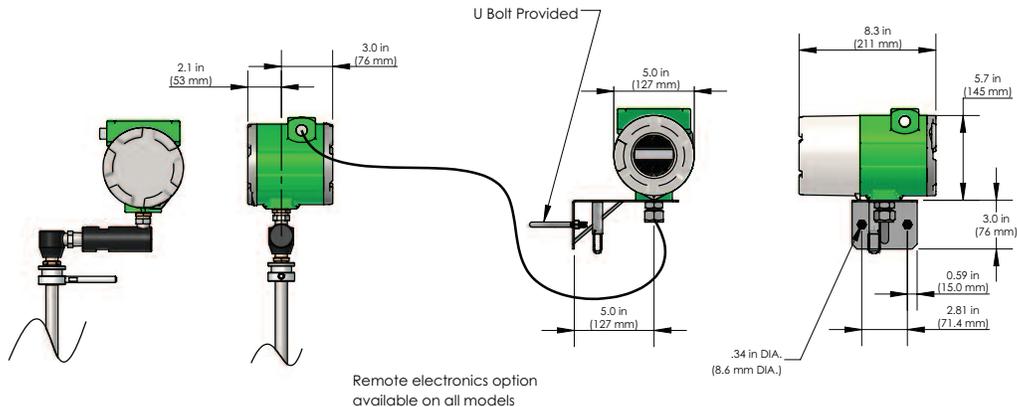
Dimensional Outline: Pro-T™ Packing Gland Models with Permanent Retractor



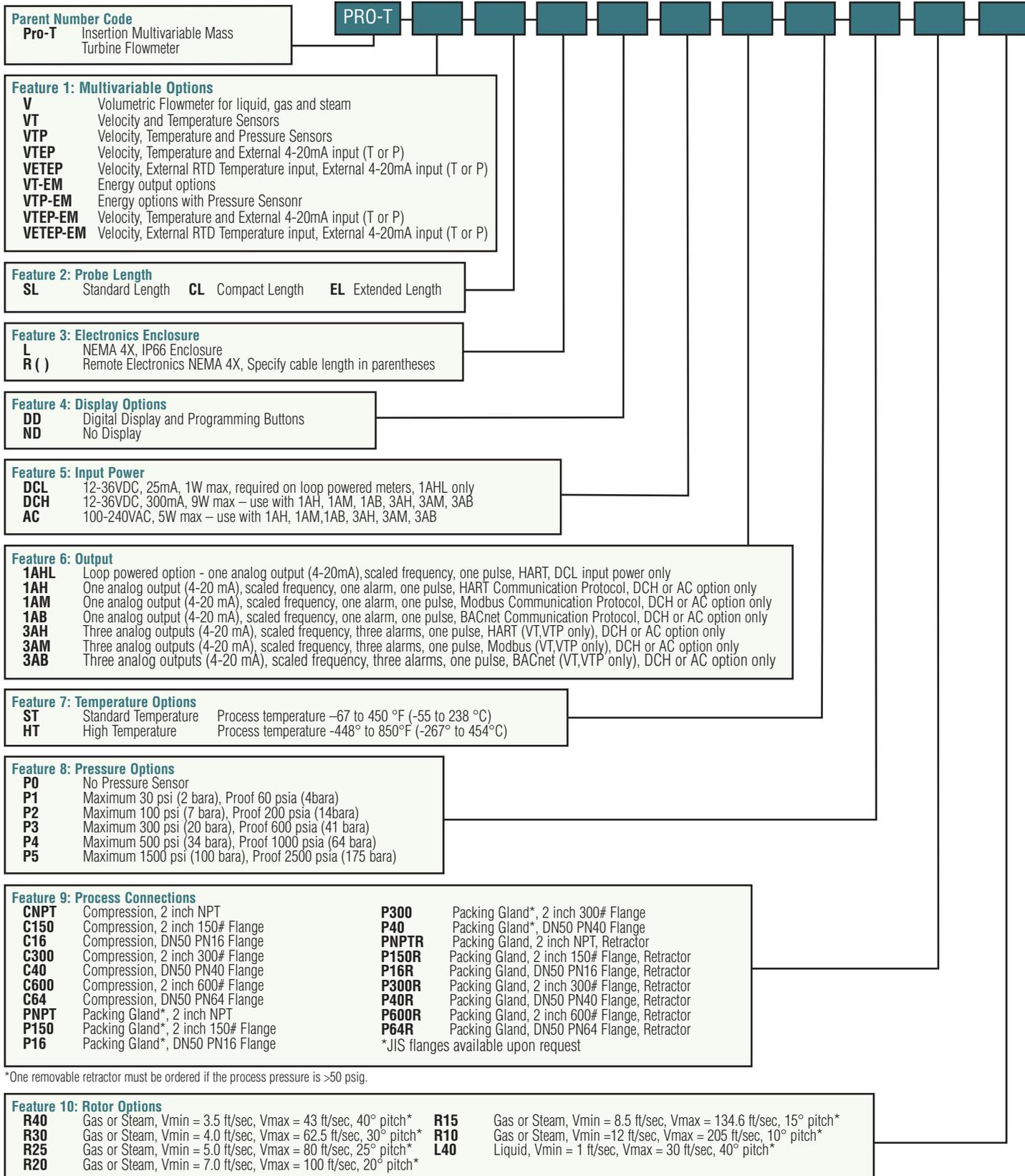
MODEL Pro-T in (mm)
WITH PERMANENT RETRACTOR

| | SL/Standard Length | | EL/Extended Length | |
|--------------------------------------|--------------------|------------|--------------------|------------|
| | A | B | A | B |
| PNPTR, Packing Gland, Male NPT | 40.0 (1016) | 20.7 (526) | 52.0 (1321) | 32.7 (831) |
| P150R, Packing Gland, 150 lb. Flange | 40.0 (1016) | 20.3 (516) | 52.0 (1321) | 32.3 (820) |
| P300R, Packing Gland, 300 lb. Flange | 40.0 (1016) | 20.3 (516) | 52.0 (1321) | 32.3 (820) |
| P600R, Packing Gland, 600 lb. Flange | 40.0 (1016) | 20.3 (516) | 52.0 (1321) | 32.3 (820) |

Dimensional Outline: Remote Electronics Option



Model Number Information – Pro-T™ Insertion Turbine Mass Flow Meter



*One removable retractor must be ordered if the process pressure is >50 psig.

* Velocities based on atmospheric conditions

