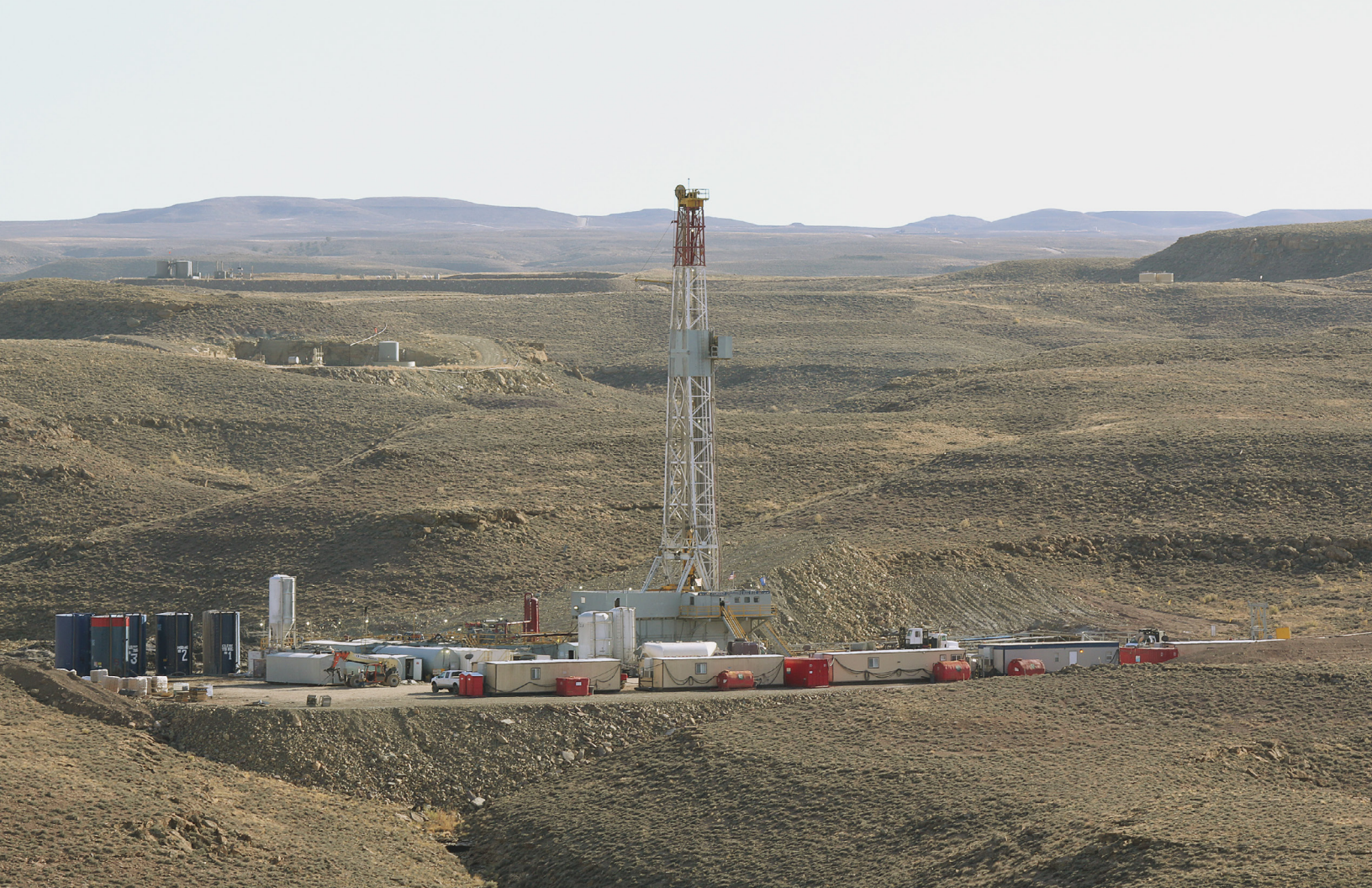




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# Serving multiple applications

## WedgeMaster FPD570 flowmeter

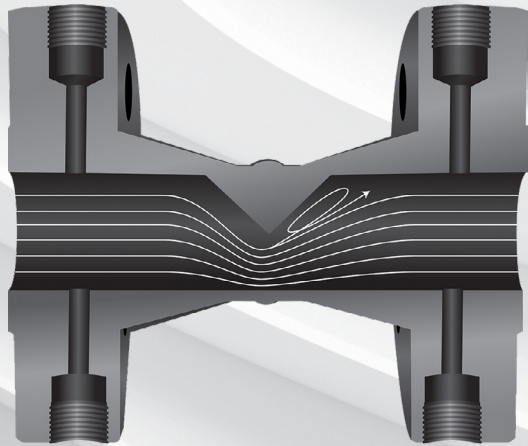
The wedge flowmeter is a popular choice in oil and gas applications, especially in production fields. It has been successfully deployed in several working environments, including gas custody transfer, gas compressor inlet, gas allocation, crude oil blending, and many other upstream, midstream and downstream applications. For difficult fluids, it can be equipped with a pair of remote seals that effectively isolate the metered fluid from the DP transmitter without affecting accuracy while keeping the flowing fluid contained within the pipe.



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Relying on the proven technology of Differential Pressure Flow Metering, WedgeMaster FPD570 flow elements take the next steps in offering reliable performance coupled with a low installation cost when compared to other technologies.



Wedge restriction creates pressure differential

Having no moving parts and a unique wear resistant ‘V’ shaped restriction, initial accuracy is maintained throughout the life of the meter virtually eliminating routine maintenance schedules. Whether the measured process is dirty, viscous, hot, clean, abrasive or tends to foul, WedgeMaster flowmeters provide accurate measurements every time.

Physical specifications

| Flange connection (WMF) / pipe tap (WMP)   |                                                                                                                                                                                                       |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WMP transmitter connections                | 2-24" use - 1/2", 3/8", 1/4" NPT                                                                                                                                                                      |
| WMF transmitter connections                | 3" RF flange (SCH 80 I.D.)                                                                                                                                                                            |
| WEDGE element                              | <ul style="list-style-type: none"><li>0.2, 0.3, 0.4, 0.5, 0.6, 0.7 (restrictions per model code)</li><li>To determine H/D ratio and differential pressure, refer to ABB sizing software</li></ul>     |
| Process flange connection                  | <ul style="list-style-type: none"><li>ANSI class 150 raised face</li><li>ANSI class 300 raised face</li><li>ANSI class 600 raised face</li></ul> <i>Contact ABB for additional end flange ratings</i> |
| Internal bore flange style                 | Piping ID - Sch XS, XSS, 40, 40S, 80, 80S, 160 dependent on meter size and pressure rating<br><i>Contact ABB for availability of additional pipe schedules</i>                                        |
| Materials of const. - Process wetted parts | <ul style="list-style-type: none"><li>Standard materials are 316 SST and carbon steel</li></ul> <i>Contact ABB for other materials</i>                                                                |
| Mounting hardware                          | 3 or 5 valve manifold: 316 SST w/teflon packing<br>Impulse line/fittings: 316 SST                                                                                                                     |

Performance specifications

| Flange connection (WMF) / pipe tap (WMP) |                                                                                                                                                                                                               |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy                                 | <ul style="list-style-type: none"><li>±0.5% of actual flow rate</li></ul> <b>Bi-directional</b> <ul style="list-style-type: none"><li>Same as above when Kd2 designated as reverse flow coefficient</li></ul> |
| Repeatability                            | ±0.2%                                                                                                                                                                                                         |
| Flow range                               | Suitable for flow regimes down to 500 Reynold Numbers (Rd)                                                                                                                                                    |
| Temperature and pressure rating          | <b>Flanged instrument connection</b> <ul style="list-style-type: none"><li>MWF is per ANSI B16.5</li></ul> <b>Pipe tap connection</b> <ul style="list-style-type: none"><li>MWP is per ANSI B16.5</li></ul>   |
| Temperature range                        | Temperatures to 704°F dependant on ABB transmitter selection                                                                                                                                                  |