

H2 5033DL SERIES

Dome Loaded, High Flow, High Pressure
Pressure Reducing Regulators



Premier H2 5033DL Series dome loaded, single stage, high flow, high pressure, piston sensed, pressure reducing regulators, rated for inlet and outlet pressures up to 10000 PSIG / 689.5 bar (*dependent upon configuration*), and Cv 3.3. The H2 5033DL features an externally loaded 1:1 dome load. Optional external sensing port for improved accuracy.

FEATURES

- Flow capacity (Cv): 3.3
- Designed for use with hydrogen
- 10000 PSIG (689.5 bar) max inlet pressure
- 1:1 dome load
- Optional external sensing port
- Economical pricing
- Machined bar stock body eliminates porosity found in castings

SOME APPLICATIONS WILL REQUIRE A CUSTOM SOLUTION.
CONTACT PREMIER INDUSTRIES TO REQUEST A MODIFICATION
OR A CUSTOM DESIGN.

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - 10000 PSIG (690 BAR)*
**dependent upon configuration, see page 4*
- **MAXIMUM OUTLET PRESSURE:**
 - 10000 PSIG (690 BAR)*
**dependent upon configuration, see page 4*
- **FLOW (Cv):** 3.3

MATERIALS OF CONSTRUCTION

- **BODY:**
 - 316 Stainless Steel
- **PISTON:**
 - 316 Stainless Steel
- **VALVE HOUSING:**
 - 316 Stainless Steel
- **MAIN VALVE SEAT OPTIONS:**
 - PTFE filled PEEK
 - VESPEL® SP-1
 - PEEK®
- **O-RING OPTIONS:**
 - BUNA-N
 - Viton®
 - EPDM
- **BACK-UP RINGS:**
 - PTFE
- **STANDARD LUBRICANT:**
 - Krytox® GPL 206

PORTING

- **INLET & OUTLET OPTIONS:**
 - 9/16 Medium Pressure
 - 3/4 FNPT, SAE AS5202, SAE J1926, Medium Pressure
 - 1" FNPT, SAE AS5202, SAE J1926, Medium Pressure
- **EXTERNAL SENSING PORT OPTIONS:**
 - 1/4 FNPT, SAE AS5202, SAE J1926
- **DOMEST PORT OPTIONS:**
 - 1/4 FNPT, SAE J1926, SAE AS5202**
*** (SAE AS5202 supersedes MS33649)*

OPTIONS

- Private Label

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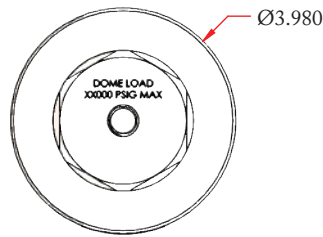
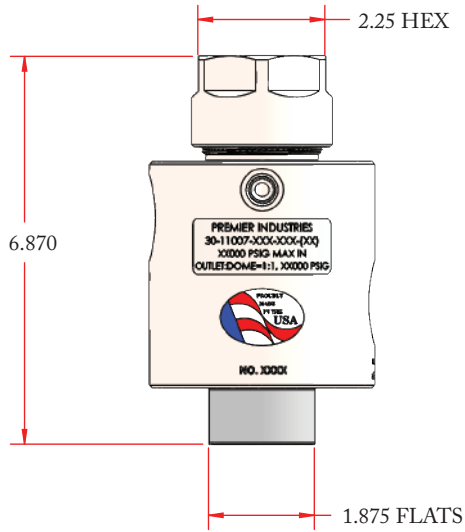
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Contact factory for material certifications. Fees may apply.

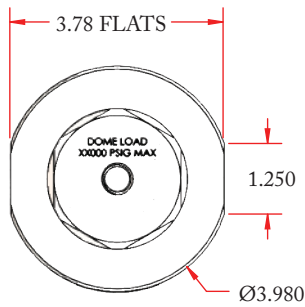
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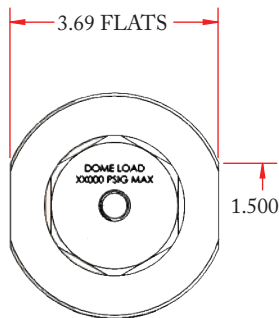
PART NUMBER: H30-11110



PORTS: 3/4" NPT, & 1" NPT



PORTS: 9/16" MP, 3/4" MP



PORTS: 3/4" SAE J1926,
3/4" SAE AS5202, 1" MP



PORTS: 1" SAE J1926,
1" SAE AS5202,

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| PART NUMBER: | - | 1 | 2 | 3 | - | 4 | 5 | 6 | - | MODS |
|--------------|---|---|---|---|---|---|---|---|---|------|
| H30-11110 | - | | | | - | | | | | |

| 1 | SEAT MATERIAL OPTIONS |
|---|---------------------------------|
| 1 | PTFE FILLED PEEK® |
| 2 | PEEK® |
| 3 | VESPEL SP-1® |
| 2 | O-RING MATERIAL OPTIONS |
| 0 | BUNA-N |
| 2 | VITON® |
| 5 | EPDM |
| 3 | BODY MATERIAL |
| 1 | 316 STAINLESS STEEL |
| 4 | PORT SIZE |
| 2 | 9/16" (medium pressure only) |
| 3 | 3/4" |
| 4 | 1" |

| 5 | PORT TYPE |
|---|---|
| 1 | NPT (10000 PSIG MAX/690 BAR) |
| 2 | SAE J1926 (6000 PSIG MAX/414 BAR) |
| 3 | SAE AS5202 (6000 PSIG MAX/414 BAR) |
| 4 | MEDIUM PRESSURE (10000 PSIG MAX/690 BAR) |
| 6 | DOMES PORT OPTIONS |
| 1 | 1/4" FNPT |
| 2 | 1/4" SAE J1926 |
| 3 | 1/4" SAE AS5202 |

| MODIFICATIONS | |
|---------------|--|
| BLANK | None |
| E1 | 1/4" FNPT external sensing port |
| E2 | 1/4" SAE J1926 external sensing port |
| E3 | 1/4" SAE AS5202 external sensing port |
| AC | KRYTOX 240AC |

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