# HV-7000

HV7000


- Max Inlet Pressure: 875 bar
- Outlet Pressure: 10-30 bar
- Temperaturområde: -40 til 85°C
- CV: 0.17
- Lækage: Bubble-tight

## PRODUKTBESKRIVELSE

**TESCOM HV-7000 Serien**

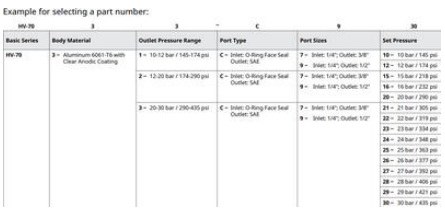
Two Stage Pressure Reducing Regulator er en pålidlig, low-maintenance pressure kontrol løsning speicelt designet til brug ombord på industrial og commercial heavy-duty hydrogen-powered vehicles med lager tanke op til 700 bar.

HV-7000 hjælper med at maksimere vehicle fuel efficiency ved at kontinuerligt at levere flow op til 5 g / s hydrogen fuel ved det rigtige tryk som det kræves af fuel cell eller hydrogen combustion engine over full range operating conditions.

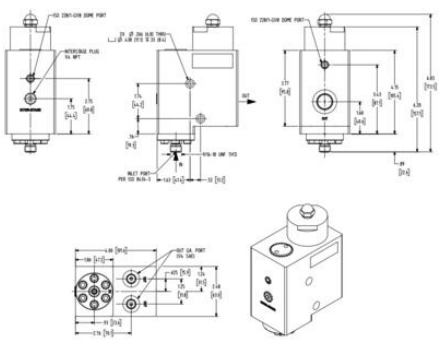
The contamination-resistant design of the HV-7000 sikre en pålidlig og long service life, hvilke minimere cost of ownership.

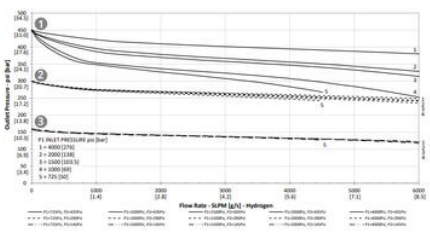
**Applikationer**

- Onboard fuel cell electric vehicles (FCEV) or hydrogen internal combustion engine vehicles (HICEV)
- Pressure reduction from fuel tank in hydrogen powered vehicles or stationary back-up power


Example for selecting a part number:

| HV-70 | 3 | - | 3 | - | C | 9 | 30 |
|---|---|---|---|---|---|---|---|
| Basic Series | Body Material | | Outlet Pressure Range | | Port Type | Port Sizes | Set Pressure |
| HV-70 | 3 = Aluminum 6061-T6 with Clear Anodic Coating | | 1 = 10-12 bar / 145-174 psi | | C = Inlet: O-Ring Face Seal Outlet: SAE | 7 = Inlet: 1/4"; Outlet: 3/8"<br>9 = Inlet: 1/4"; Outlet: 1/2" | 10 = 10 bar / 145 psi<br>12 = 12 bar / 174 psi |
| | | | 2 = 12-20 bar / 174-290 psi | | C = Inlet: O-Ring Face Seal Outlet: SAE | 7 = Inlet: 1/4"; Outlet: 3/8"<br>9 = Inlet: 1/4"; Outlet: 1/2" | 15 = 15 bar / 218 psi<br>16 = 16 bar / 232 psi<br>20 = 20 bar / 290 psi |
| | | | 3 = 20-30 bar / 290-435 psi | | C = Inlet: O-Ring Face Seal Outlet: SAE | 7 = Inlet: 1/4"; Outlet: 3/8"<br>9 = Inlet: 1/4"; Outlet: 1/2" | 21 = 21 bar / 305 psi<br>22 = 22 bar / 319 psi<br>23 = 23 bar / 334 psi<br>24 = 24 bar / 348 psi<br>25 = 25 bar / 363 psi<br>26 = 26 bar / 377 psi<br>27 = 27 bar / 392 psi<br>28 = 28 bar / 406 psi<br>29 = 29 bar / 421 psi<br>30 = 30 bar / 435 psi |





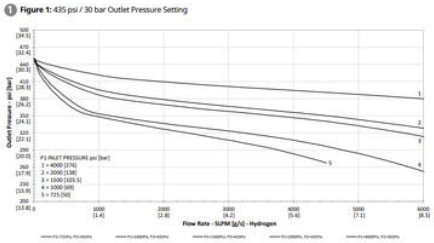
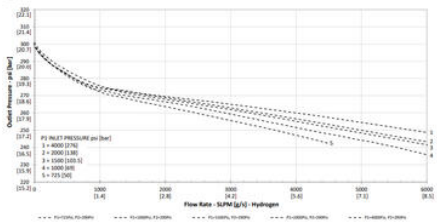



**Figure 2:** 290 psi / 20 bar Outlet Pressure Setting




Example for selecting a part number:

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| **Basic Series** | **Body Material** | **Outlet Pressure Range** | | **Port Type** | **Port Sizes** | **Set Pressure** |
| **HV-70** | **3** = Aluminum 6061-T6 with Clear Anodic Coating | **1** = 10-12 bar / 145-174 psi | | **C** = Inlet: O-Ring Face Seal Outlet: SAE | **7** = Inlet: 1/4"; Outlet: 3/8" | **10** = 10 bar / 145 psi |
| | | | | | **9** = Inlet: 1/4"; Outlet: 1/2" | **12** = 12 bar / 174 psi |
| | | **2** = 12-20 bar / 174-290 psi | | **C** = Inlet: O-Ring Face Seal Outlet: SAE | **7** = Inlet: 1/4"; Outlet: 3/8" | **15** = 15 bar / 218 psi |
| | | | | | **9** = Inlet: 1/4"; Outlet: 1/2" | **16** = 16 bar / 232 psi |
| | | | | | | **20** = 20 bar / 290 psi |
| | | **3** = 20-30 bar / 290-435 psi | | **C** = Inlet: O-Ring Face Seal Outlet: SAE | **7** = Inlet: 1/4"; Outlet: 3/8" | **21** = 21 bar / 305 psi |
| | | | | | **9** = Inlet: 1/4"; Outlet: 1/2" | **22** = 22 bar / 319 psi |
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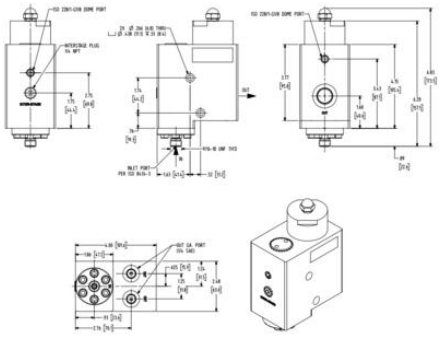
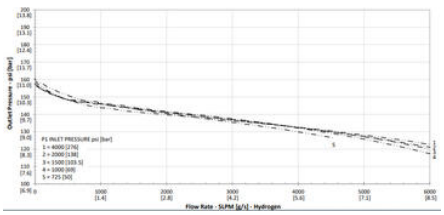



**Figure 3:** 145 psi / 10 bar Outlet Pressure Setting



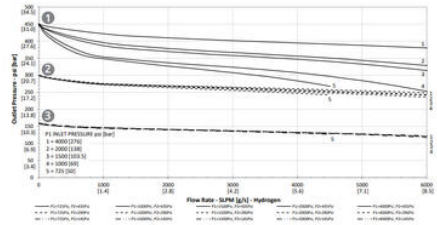




**Figure 2:** 290 psi / 20 bar Outlet Pressure Setting

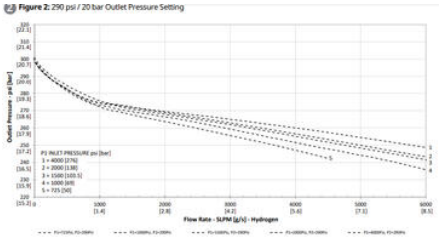



**Figure 1:** 435 psi / 30 bar Outlet Pressure Setting

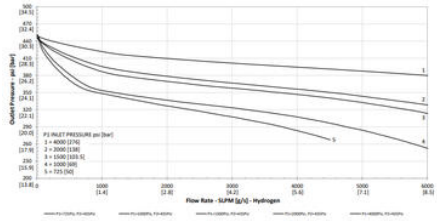



**Figure 3:** 145 psi / 10 bar Outlet Pressure Setting