

 TORUS	- Owner PROCESS DATASHEET, PCV-161 AND PCV-162 FUEL GAS REGULATORS	Document No.	PRO-DS-003		
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		Issue purpose	Issued for Review		
PROCESS ·PROCESS DATASHEET, PCV-161 AND PCV-162 FUEL GAS REGULATORS					
Rev.	Date	Revision description	Prepared	Reviewed	Approved
A	2026-09-29	Issued for Review			

OPERATING CONDITIONS

Item	PCV-161, first cut	PCV-162, second cut
Service	Fuel gas after E-161	Fuel to H-101 and G-101
Inlet pressure, psig	897 to 1,148	150
Inlet temperature, °F	105 to 120	46 to 70
Set pressure, psig	150	15
Design flow, scf/h	6,760	6,760
Design flow, lb/h	330	330
Minimum flow, scf/h	25, pilot only	25, pilot only
Flow regime	Choked	Choked
Required C_v	0.18	1.00
Wide-open C_v	0.6	4.0
Wide-open flow at maximum inlet, lb/h	1,650	Limited by PCV-161

REGULATOR

Item	PCV-161	PCV-162
Size and rating	NPS 1, Class 600 inlet, Class 150 outlet	NPS 1, Class 150
Type	Pilot-operated, soft seat	Direct-acting or pilot-operated
Elastomers	Rated to -40 °F	Rated to -40 °F
Downstream protection	PSV-161, set 250 psig	PSV-161; components rated 285 psig

NOTES

1. Sizing per  PRO-CAL-010, Fuel Gas System. The flow equation uses the isentropic exponent κ .
2. The wide-open flow of PCV-161 is the PSV-161 relief load. Wide-open C_v : Vendor to confirm (HOLD H-15).
3. Process data only. The mechanical, instrument and electrical datasheets complete the purchase specification.
4. Pressures are gauge unless stated. Standard conditions are 14.73 psia and 60 °F; local atmospheric pressure is 14.10 psia.
5. Values marked HOLD H-15 are typical and shall be confirmed by the selected vendor.