

# Single Vessel NGV Fuel Gas Dryers

# NG-SV



**NG series**



**MADE IN THE U.S.A.**

**PSB INDUSTRIES INC.  
ISO 9001:2008 CERTIFIED**

# NG-SV Single Vessel Natural Gas Dryer

PSB type NG-SV is an ideal system for drying small volumes of natural gas for stations with intermittent use. Each unit is conservatively sized to remove moisture from gas upstream of the natural gas compressor.

When the initial charge of desiccant has reached maximum drying capacity, it can either be replaced or regenerated with an external regeneration package, consult PSB for more information.

An optional “DDP” Digital Dew Point meter will provide indication of effluent dew point confirming performance or need for desiccant replacement/regeneration.

PSB’s standard package includes factory fit pre-filter and particulate after-filter.

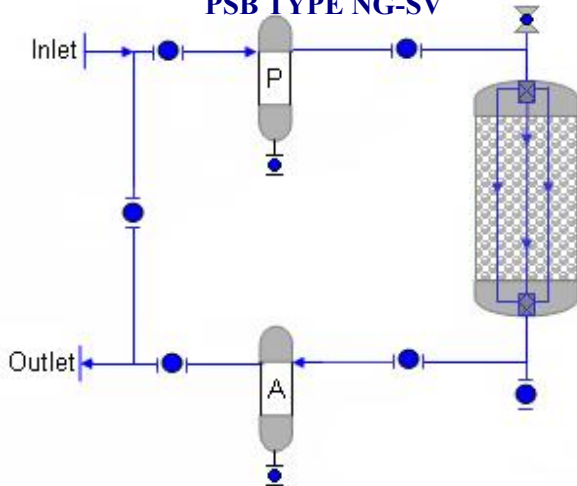
PSB Model	(1) MMSCF Capacity @ 7 lb. H <sub>2</sub> O/MMSCF	Flow Capacity SCFM @ PSIG 25/50/100	Process Connections Inches	Dimensions Inches			Package Weight lbs.
				L	W	H	
NG-SV-0.45-0.5	0.45	30 / 38 / 50	½ NPT	24	20	75	200
NG-SV-0.7-1.0	0.7	59 / 75 / 100	1 NPT	28	20	75	350
NG-SV-1.5-1.0	1.5	59 / 75 / 100	1 NPT	28	20	88	430
NG-SV-3.0-1.5	3.0	191 / 244 / 325	1.5 NPT	38	34	96	700
NG-SV-5.0-1.5	5.0	191 / 244 / 325	1.5 NPT	42	38	96	1,000
NG-SV-6.5-2	6.5	324 / 413 / 550	2 NPT	45	40	96	1,700
NG-SV-10-2	10	324 / 413 / 550	2 NPT	50	45	96	2,100
NG-SV-10-3	10	648 / 826 / 1100	3 FLG	50	45	96	2,150
NG-SV-15-3	15	648 / 826 / 1100	3 FLG	56	52	110	2,750
NG-SV-21-3	21	648 / 826 / 1100	3 FLG	62	58	110	3,500
NG-SV-21-4	21	1178 / 1502 / 2000	4 FLG	62	58	110	3,700

Specifications and information subject to change

(1) Capacity Multiplier for moisture contents other than 7 lb. H<sub>2</sub>O/MMSCF

Actual lb. H <sub>2</sub> O/MMSCF	2	4	6	7	10	15	20	40	50
Multiplier	2.27	1.49	1.11	1.0	0.7	0.5	0.39	0.21	0.17

**TYPICAL FLOW DIAGRAM  
PSB TYPE NG-SV**



## DESIGN FEATURES

- Adsorber vessel designed, manufactured, and stamped per ASME code Section VIII
- Stainless steel desiccant screens
- Installed pre-filter & after-filter with ΔP indicators and drain valve
- Three valve system block and bypass package
- Initial charge of desiccant
- Two (2) manual regeneration valves on NG-SV-3.0-1.5 and larger models
- Modular design matches regeneration package

### Typical Options:

- DDP – Digital Dew Point Meter with 2 alarms (CL 1, DIV 2, GR C, D)
- Higher design pressure (> 150 PSIG)
- Vessel insulation
- Regeneration package, see NG-SR bulletin



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