

# 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.

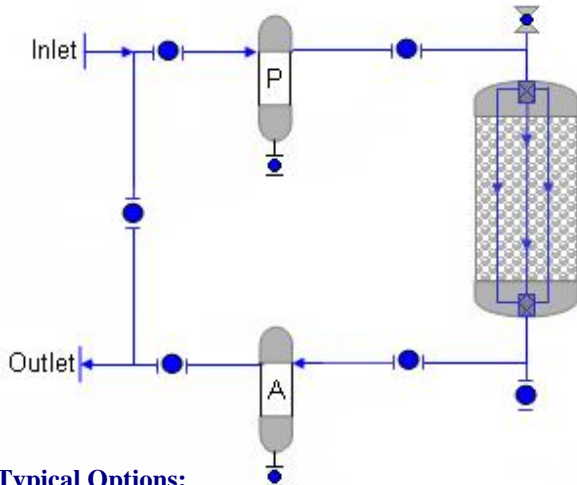
PSB Model	(1) MMSCF Capacity @ 7 lb. H <sub>2</sub> O/MMSCF	Flow Capacity SCFM @ PSIG 20/100	Process Connections Inches	Dimensions Inches			Package Weight lbs.
				L	W	H	
NG-SV-1.5-1.0	1.5	50 / 100	1 NPT	28	20	88	430
NG-SV-3.0-1.5	3.0	145 / 510	1.5 FLG	50	34	94	950
NG-SV-5.0-1.5	5.0	145 / 510	1.5 FLG	50	34	96	1,225
NG-SV-6.5-2	6.5	240 / 765	2 FLG	50	40	96	1,750
NG-SV-10-2	10	240 / 820	2 FLG	50	40	101	2,200
NG-SV-10-3	10	525 / 1,375	3 FLG	50	48	101	2,470
NG-SV-15-3	15	525 / 1,400	3 FLG	52	57	110	2,750
NG-SV-15-4	15	615 / 2,160	4 FLG	52	57	120	2,950
NG-SV-21-3	21	525 / 1,700	3 FLG	76	79	92	3,700
NG-SV-21-4	21	900 / 2,300	4 FLG	72	66	110	4,400

Specifications and information subject to change. Contact factory for your specific application.

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

Actual lb. H <sub>2</sub> O/MMSCF Multiplier	2	3	4	5	6	7	10	15	20	30	40	50
	2.27	1.82	1.49	1.25	1.11	1.0	0.7	0.5	0.39	0.30	0.21	0.17

## TYPICAL FLOW DIAGRAM PSB TYPE NG-SV



## DESIGN FEATURES

- Adsorber vessel designed, manufactured, and per ASME code Section VIII
- Stainless steel desiccant screens
- Installed pre-filter & after-filter
- 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)
- MI – Color change moisture indicator
- Higher design pressure (> 200 PSIG)
- Vessel insulation
- Regeneration skid, see NGR bulletin



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