

Liquid Separators

WSA / WS0

 = "Most Popular"

Specifications

Maximum Operating Pressure	(WSA)	200 PSIG (13.8 bar)
	(WS0)	232 PSIG (16.0 bar)
Operating Temperature	(WSA)	32° to 150°F (0° to 65.5°C)
	(WS0)	35° to 176°F (1.6° to 80°C)
Pressure Differential at Rated Flow		1.0 PSID (0.07 bar)

Materials of Construction

	WSA	WS0
Housing	Zinc	Aluminum
Seals	Nitrile	Fluorocarbon

Liquid Separators

Our unique design combines the techniques of centrifugal action and other mechanical separation principles (Impingement, Separation, Laminar Flow and Stokes Law) to remove large quantities of liquid and solid contamination.

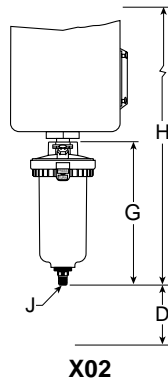
Typical applications include water separation downstream of aftercoolers, protection of refrigerant and heatless regenerative desiccant dryers, downstream of air receivers, and other liquid / gas separation duties where the volume of water and solids poses a real problem.

Features

- High Flow Rates
- Less than 1 PSIG Differential Pressure
- Lightweight Cast Aluminum Housing with 1" to 3" NPT Connections (WS0)
- Cast Zinc Housings with 1/4" to 1" NPT Connections (WSA)
- External Surfaces Epoxy Painted for Maximum Corrosion Protection
- Standard Equipped with Quick Disconnect Bowls for Ease of Service (WSA)
- Three (3) Optional Automatic Drains Available

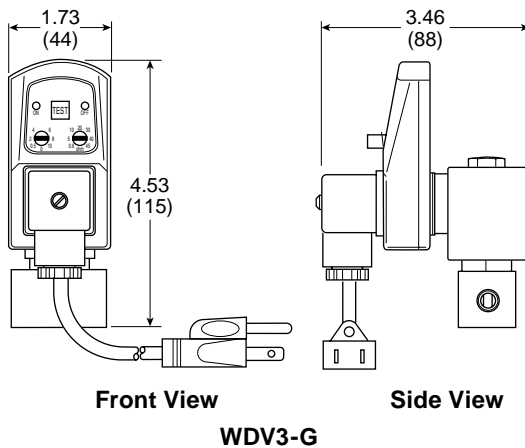
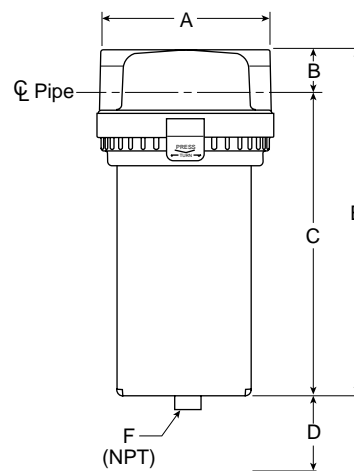
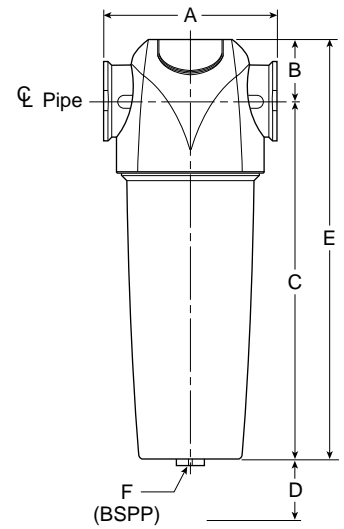
Model Number	In / Out NPT Pipe Conn.	Rated Flow (SCFM) @ 100 PSIG*	Approx. Weight lbs.	Recommended Automatic Drain
WSA-02-M00**	1/4"	25	2.2	Optional
WSA-02-FM0	1/4"	25	2.2	Internal
WSA-03-M00**	3/8"	50	2.6	Optional
WSA-03-FM0	3/8"	50	2.6	Internal
WSA-04-M00**	1/2"	50	2.6	Optional
WSA-04-FM0	1/2"	50	2.6	Internal
WSA-06-M00**	3/4"	100	6.0	Optional
WSA-06-FM0	3/4"	100	6.0	Internal
WSA-08-M00**	1"	120	6.0	Optional
WSA-08-FM0	1"	120	6.0	Internal
WS0-08-000B	1"	233	4.8	X02-04-FM0 WDV3-G
WS0-0B-000B	1-1/2"	742	11.2	X02-04-FM0 WDV3-G
WS0-0C-000B	2"	742	11.2	X02-04-FM0 WDV3-G
WS0-0E-000B	3"	1700	22.0	X02-04-FM0 WDV3-G

*1 PSID maximum differential. **Models have petcock.

**X02**

D = Bowl Removal Clearance Dimension

J = External Drain Discharge Port (NPT)

**Front View****Side View****WDV3-G****WSA****WS0**

NOTE: MAXIMUM separator efficiency of 98%+ is achieved in the range of 15 to 100% of rated flow in SCFM. At flow rates of <15% or >100%, separator efficiency is reduced considerably. Consult your Wilkerson distributor or contact Wilkerson for assistance in selecting the correct separator model for your application.

Model Number	A	B	C	D	E	NPT F	G	H	NPT J
WSA-02-M00*	3.00	.90	5.51	3.50	6.41	1/8	—	—	—
WSA-02-FM0	3.00	.90	5.51	3.50	6.41	1/8	—	—	—
WSA-03-M00*	3.35	.98	6.36	3.50	7.34	1/8	—	—	—
WSA-03-FM0	3.35	.98	6.36	3.50	7.34	1/8	—	—	—
WSA-04-M00*	3.35	.98	6.36	3.50	7.34	1/8	—	—	—
WSA-04-FM0	3.35	.98	6.36	3.50	7.34	1/8	—	—	—
WSA-06-M00*	4.62	1.00	9.00	3.50	10.00	1/8	—	—	—
WSA-06-FM0	4.62	1.00	9.00	3.50	10.00	1/8	—	—	—
WSA-08-M00*	4.62	1.00	9.00	3.50	10.00	1/8	—	—	—
WSA-08-FM0	4.62	1.00	9.00	3.50	10.00	1/8	—	—	—
WS0-08-000B	5.10	1.60	9.20	3.00	10.80	1/2	5.90	18.00	1/4
WDV3-G	—	—	—	—	—	—	1.62	13.72	—
WS0-0B-000B	6.70	2.00	15.00	4.00	17.00	1/2	5.90	18.00	1/4
WDV3-G	—	—	—	—	—	—	1.62	13.72	—
WS0-0C-000B	6.70	2.00	15.00	4.00	17.00	1/2	5.90	24.50	1/4
WDV3-G	—	—	—	—	—	—	1.62	20.22	—
WS0-0E-000B	8.10	2.40	17.50	4.72	19.90	1/2	5.90	28.90	1/4
WDV3-G	—	—	—	—	—	—	1.62	24.62	—

*Models have petcock.

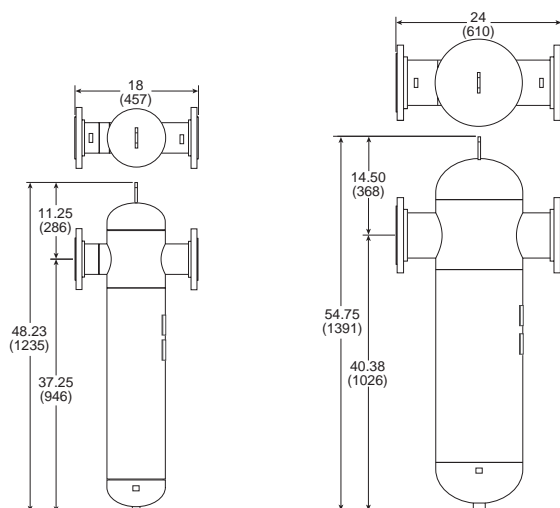
WWSA Bulk Liquid Separators



WWSA Series

Features

- Designed in Accordance with ASME and CRN
- Connection Sizes: 4 Inch & 6 Inch
- High Liquid Removal Efficiencies at All Flow Conditions
- Suitable for Variable Flow Compressors
- Works With All Types of Compressor and Compressor Condensate
- External Surface Epoxy Painted for Maximum Corrosion Resistance



WWSA1000F

WWSA1800F

Specifications

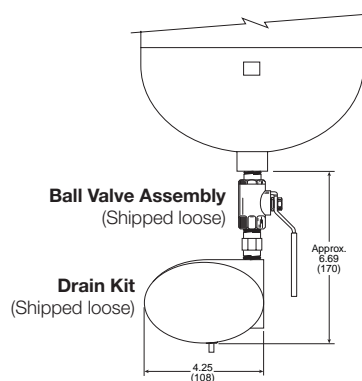
Operating Pressure	232 PSIG (16 bar)
Operating Temperature	35°F to 150°F (1.5°C to 66°C)

Materials of Construction

Baffle	Plated Steel
Body	Steel
Deflector	Plated Steel
Seals	Fluorocarbon
Stud	Plated Steel

Service Kits

DP Gauge Replacement Kit	DPG-Kit
Drain Kit - 1/2" NPT	HDF-120-NPT-A



Inlet Air Pressure Correction

PSI	15	29	44	58	73	87	100	116	131	145
bar	1	2	3	4	5	6	7	8	9	10
Factor	2.65	1.87	1.53	1.32	1.18	1.08	1.00	.94	0.88	0.84

For pressures above 232 PSIG (16 bar), use manual drain.										
PSI	160	174	189	203	218	232	247	261	275	290
bar	11	12	13	14	15	16	17	18	19	20
Factor	0.80	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.61	0.59

Ordering Information

Model Type	Port Size	Flow SCFM	Element Type	Number of Elements
WWSA1000F	4" Flange	2119	0.01 micron	4
WWSA1800F	6" Flange	3814	1.0 micron	6