**TI-IBR16-38IN** 

Issue 1

# spirax sarco

# Carbon Steel Separator DN65 to DN350

# **Description**

The S7 is a carbon steel baffle type separator for the efficient removal of entrained liquids from steam, air and gas systems. A suitable steam trap (FT) or liquid drainer (CA) is required to drain the collected condensate/liquid depending on the application:

For steam service fit an FT ball float steam trap and AV air vent

For air / gas service fit a CA ball float liquid drainer

#### Standards

This product fully complies with the requirements of the Indian Boiler Regulations, 1950.

### Certification

This product is available with a manufacturers 'Typical Test Report and IBR Certification'

**Note:** All certification / inspection requirements must be stated at the time of order placement.

#### Sizes and pipeline connections

 ${\rm DN65,\ DN80,\ DN100,\ DN125,\ DN150,\ DN200,\ DN250,\ DN300}$  and  ${\rm DN350.}$ 

Flanged ASME B16.5 Class 150 and 300 with screwed NPT vent and drain connections.

Screwed, socket weld and other connections are available to special order – consult Spirax Sarco.

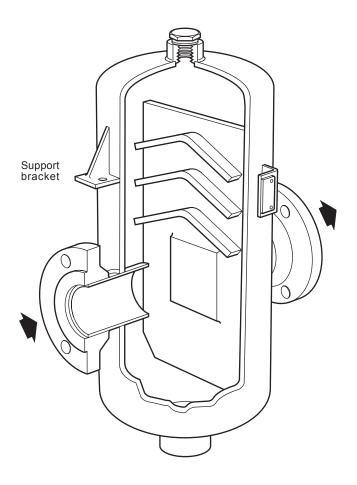
#### Materials

All components of the S7 are manufactured from carbon steel.

# Pressure / temperature limits

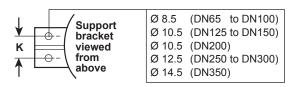
Size	Flange standard	Design pressure bar g	Design temperature °C	Designed for a maximum cold hydraulic test pressure of: bar g		
DN65	ASME 150	20	213	30.0		
to DN350	ASME 300	25	225	37.5		

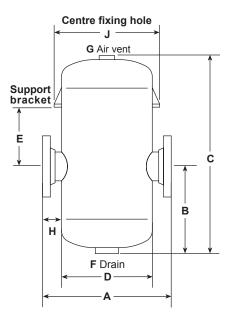
**Please note:** For pressures and temperatures that exceed these operating conditions please contact Spirax Sarco for a quotation.



# Dimensions, weight and volume (approximate) in mm, kg and litres

Size	Design pressure (bar g)	Α	В	С	D	E	F	G	Н	J	K	Weight	Volume
DN65	20	420	266.4	638	219	152.3	1"	3/4"	100.5	319.1	30	38	14
	25	420	266.4	638	219	152.3	1"	3/4"	100.5	319.1	30	38	14
DN80	20	489	350.5	735	273	166.3	1"	3/4"	107.9	373.1	30	58	31
	25	489	350.5	735	273	166.3	1"	3/4"	107.9	373.1	30	58	31
DN100	20	574	358.1	795	324	133.3	2"	3/4"	125	423.9	40	83	48
	25	574	358.1	795	324	133.3	2"	3/4"	125	423.9	40	83	48
DN125	20	656	358.1	843	406.4	178.7	2"	3/4"	124.8	506.4	44	118	66
	25	656	358.1	843	406.4	178.7	2"	3/4"	124.8	506.4	44	118	66
DN150	20	706	426.2	935	457.2	166.5	2"	3/4"	124.4	567.2	60	154	110
	25	706	426.2	935	457.2	166.5	2"	3/4"	124.4	567.2	60	154	110
DN200	20	858	460	1200	530	372	2"	2"	175	560	60	292	223
	25	858	460	1200	530	372	2"	2"	175	560	60	292	223
DN250	20	950	615	1580	600	530	2"	2"	175	688	72	440	376
	25	950	615	1580	600	530	2"	2"	175	688	72	440	376
DN300	20	1010	740	1700	600	540	2"	2"	200	698	72	564	415
	25	1010	740	1700	600	540	2"	2"	200	698	72	564	415
DN350	20	1100	754	1800	700	525	2"	2"	200	816	108	735	623
	25	1100	754	1800	700	525	2"	2"	200	816	108	735	623



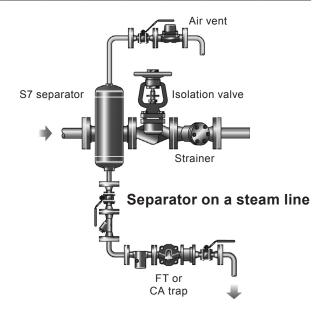


# **Capacities**

See TI-S33-06 for full details of capacities.

## How to order

**Example:** 1 off Spirax Sarco DN80 S7 carbon steel separator with ASME 300 flanges. Suitable for pressures up to 25 bar (please specify design conditions).



# Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-IBR16-19IN) supplied with the product.

**Installation note:** To ensure efficient drainage of condensate a suitable ball float trap and air vent should be installed. For air/gas applications a balance line is required between the CA trap and the main line or top of the separator – consult Spirax Sarco for further details.

#### Disposal

The product is recyclable. No ecological hazard is anticipated with disposal of this product providing due care is taken.

# Spare parts

The S7 is non maintainable - No spare parts are available.