



# Pipe Separator Series 1690

## Connection to Compression Fitting, e.g. acc. to DIN 2353 Type L

- Application** Mounting to Bourdon tube pressure gauges or to pressure transmitters for indirect pressure measurement, to be fitted to compression fittings with metric dimensions by ferrule and union nut in the chemical and union process industry.
- Execution** The pipe separator is inseparably fixed with the pressure measuring instrument to a hydraulic measuring unit, either directly, via a cooling element or via a capillary tube of stainless steel.
- Type of construction** Pipe separator with internal moulded diaphragm, manufactured by the patented HAENNI procedure. All parts in stainless steel, welded.
- Connection** To compression fittings with ferrule e.g. acc. to DIN 2353 Type L.
- Temperature of medium** Up to 80°C (1/2 h up to 140°C), other temperature limits (up to 300°C) on request.
- Hydraulic transmission fluid** Glysantine (standard), others on request.



### Selection chart

Type	Material <sup>1)</sup> of Separator body	Material <sup>1)</sup> of Separation element (tube diaphragm)				Material <sup>1)</sup> of Connecting muff (not in contact with the medium)			Pipe <sup>1)</sup> Outside diameter [mm]	PN	Ordering code
Pipe separator	stainless steel 1.4571	stainless steel 1.4435	stainless steel 1.4301	12	18	22	28	35	42	250	1693
		stainless steel 1.4435								160	1695
		stainless steel 1.4404 / 1.4435								160	1696
		stainless steel 1.4435								100	1697
		stainless steel 1.4571								100	1698
		stainless steel 1.4404 / 1.4435								100	1699
Capillary tube 1.4571	Length [m]	0.5	1	1.5	2	2.5	3	3.5			
	Ordering code	1205	1210	1215	1220	1225	1230	1235			
Additional metallic protection hose for capillary tube											1299
Temperature of measured medium (e.g. 100 °C)											9007/0100
Ordering example: <b>DRC 100/811.111/095 / 1697 / 1210 / 1299 / 9007/0100</b>											

<sup>1)</sup>Other materials and diameters on request.

### Construction and Function

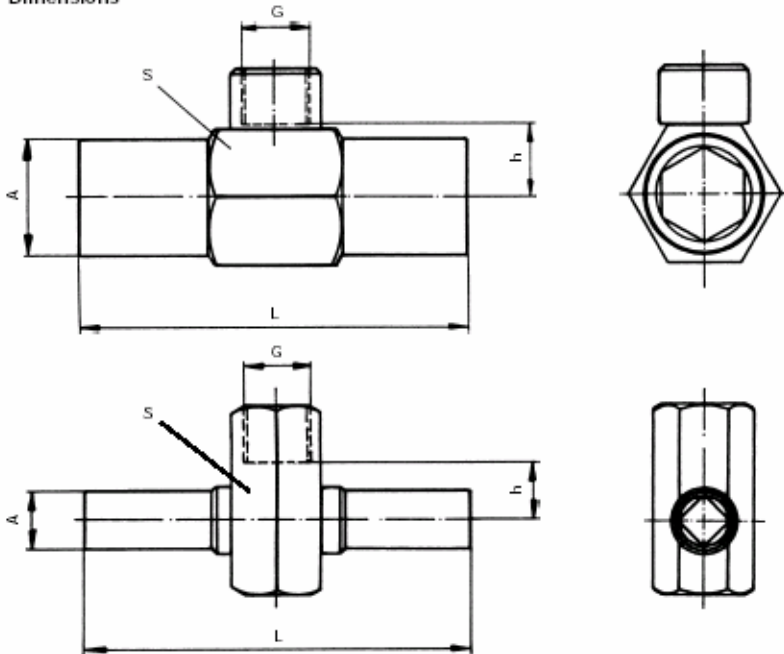
The separator body is produced from one piece. This construction guarantees absolute safety even at higher pressures in the pipe system. The maximum permitted pressure is limited by the compression fitting parts mounted by the user on site. The tubular diaphragm, longitudinal in flow direction, is welded at both ends to the separator body and has a square- or hexagonal profile (depending on pipe DN). The pipe separator transmits the pressure of fluids flowing in pipes. Dead-zone-free transitions to the connection fittings and the optimal-flow design prevent the formation of deposits and make cleaning possible without dismantling the separator from the pipe system. The interior shape does not cause considerable cross-section reduction.



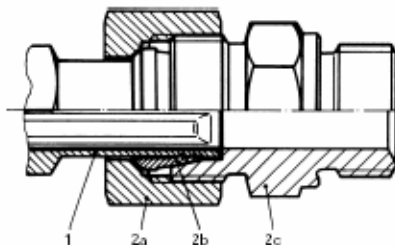
## Pipe Separator Series 1690

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#### Dimensions



#### Connection example



- 1 Separator body
- 2 Compression fitting<sup>1)</sup>
- 2a Union nut
- 2b Ferrule
- 2c Threaded body

#### Dimension chart

A [mm]	Pipe outside diameter	L [mm]	h [mm]	G	S [mm]	Weight [kg]	Inner shape
12		120	16	G 1/2	27	0.3	4-sided
18		120	16	G 1/2	27	0.3	4-sided
22		120	16	G 1/2	32	0.4	4-sided
28		120	18	G 1/2	36	0.5	4-sided
35		120	20	G 1/2	41	0.6	6-sided
42		120	25	G 1/2	50	0.7	6-sided

#### Pressure ranges (directive values)

Mounting to pressure gauge or pressure transmitter		NS 63 <sup>2)</sup>	NS 80	NS 100	ED 518
Pressure ranges [bar] with pipe O.D.	12	10...250	10...250	25...250	3)
	18	6...160	6...160	16...160	
	22	4...160	4...160	10...100	
	28	1.6...100	1.6...100	4...100	
	35	1.6...100	1.6...100	4...100	
	42	1.6...100	1.6...100	4...100	

<sup>1)</sup> Not included in delivery.

<sup>2)</sup> Only possible with transition piece G 1/4 inside / G 1/2 outside.

<sup>3)</sup> On request: Electronic pressure transmitters can be used for pressures > 250 mbar without impairing the accuracy. Please fill in page D1.201 so that we can properly assess your needs.