

Pilot series 300/A

The **pilot series 300/A** is a mechanical device which enables the working principle and the setpoint modifications of pilot operated gas pressure regulators. The pilot is optimized to enhance the accuracy and minimize the lock-up performances.



Aperflux 851



Aperval



Terval



Aperflux 101



Aperval 101

Features	Values			
Ambient temperature* (TS ¹)	from -20 °C to +60 °C from -4 °F to +140 °F			
Inlet gas temperature*	from -20 °C to +60 °C from -4 °F to +140 °F			
Inlet pressure (MAOP / p _{umax} ¹)	8.5 MPa 1232 psig (depending on the model)			
Range of downstream pressure (Wd ¹)	from 0.5 kPa to 7.4 MPa from 2" w.c. to 1073 psig (depending on the model)			
Models for Aperflux 851 Aperflux 101	302/A + AR100 restrictor	304/A + AR100 restrictor	305/A + AR100 restrictor	307/A + AR100 restrictor
Design pressure* (PS ¹ / DP ²)	up to 8.5 MPa up to 1232 psig			
Minimum set-point P _{ds min}	80 kPa 11 psig	0.7 MPa 101 psig	2 MPa 290 psig	4.1 MPa 595 psig
Maximum set-point P _{ds max}	0.95 MPa 138 psig	4.3 MPa 624 psig	6 MPa 870 psig	7.4 MPa 1073 psig
Models for Aperval Aperval 101 Terval	301/A + AR100 restrictor	301/A/TR + AR100 restrictor	302/A + AR100 restrictor	
Design pressure* (PS ¹ / DP ²)	up to 2.5 MPa up to 363 psig			
Minimum set-point P _{ds min}	0.5 kPa 2" w.c.	10 kPa 1.45 psig	80 kPa 11.6 psig	
Maximum set-point P _{ds max}	10 kPa 1.45 psig	0.2 MPa 29 psig	0.95 MPa 138 psig	

(¹) according to EN334 standard

(²) according to ISO 23555-1 standard

(*) NOTE: Different functional features and/or extended temperature ranges may be available on request. Stated inlet gas temperature range is the maximum for which the equipment's full performance, including accuracy is guaranteed. Product may have a different pressure or temperature ranges according to the version and/or installed accessories.

Table 1 Features

Materials and Approvals

Part	Material
Body	Aluminum
Cover	Aluminum
Obturator	NBR + Stainless steel
Seat	Stainless steel
Diaphragms	Nitrile rubber
Sealing rings	NBR
Screws	Stainless steel

NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

Table 2 Materials

The **Pilot 300/A** is designed according to the EN334 where applicable. Directive 2014/68/EU (PED) is not applicable due to Article 4 paragraph 3 of the Directive.



EN 334

Pilot series 300/A competitive advantages



Compact and simple design



High accuracy



Remote set-point variation option (CS | FIO | MP)



Easy maintenance