STAINLESS STEEL LOW PRESSURE REDUCING VALVE TYPE 312R3 - 310R3

FEATURES

The 312R3 - 310R3 low-pressure reducers are designed for pressure reduction in compressed air or gas supply circuits with a constant output pressure of between 5 and 400 mbar. Their robust design means they can be used in a wide range of industrial applications including food. Downstream pressure stability is very good, even with wide variations in upstream pressure. 310R3 - 312R3 reducers are fitted with an EPDM FDA diaphragm and seal. They should only be used with clean non-corrosive, uncharged gases. They are fitted with an adjusting screw and pressure gauge connection for downstream pressure (not included) and ATEX approval.

310R3

312R3

AVAILABLE MODELS

312R3 : G 1/2".
310R3 : G 3/4" to G 1"
Threaded connection G.
Diaphragm and seal : EPDM FDA.
Downstream pressure port : G1/4" (Pressure gauge not included)

LIMITS OF USE

Max allowed fluid pressure : PS	7 bar (310R3) - 10 bar (312R3)	
Upstream pressure :	5 / 45 mbar	10 / 400 mbar
Max allowed fluid temperature : TS :	**G 1/2"** : -40°C / +175°C	**G 3/4" to G 1"** : -20°C / +80°C

REGULATIONS AND STANDARD OF CONSTRUCTION

ITEM	Standard	ITEM	Standard
Pressure equipment directive 2014/68	**G 1/2" to 1''** : Not subject	Food conformity	CE 1935/2004
ATEX Directive 2014/34 EU	EAC Ex TR CU 012		

FLOW COEFFICIENT (Kv (m^3/h)

TYPE 312R3/310R3	G 1/2"	G 3/4"	G 1"
Kv (m^3/h)	1,4	1,4	1,4

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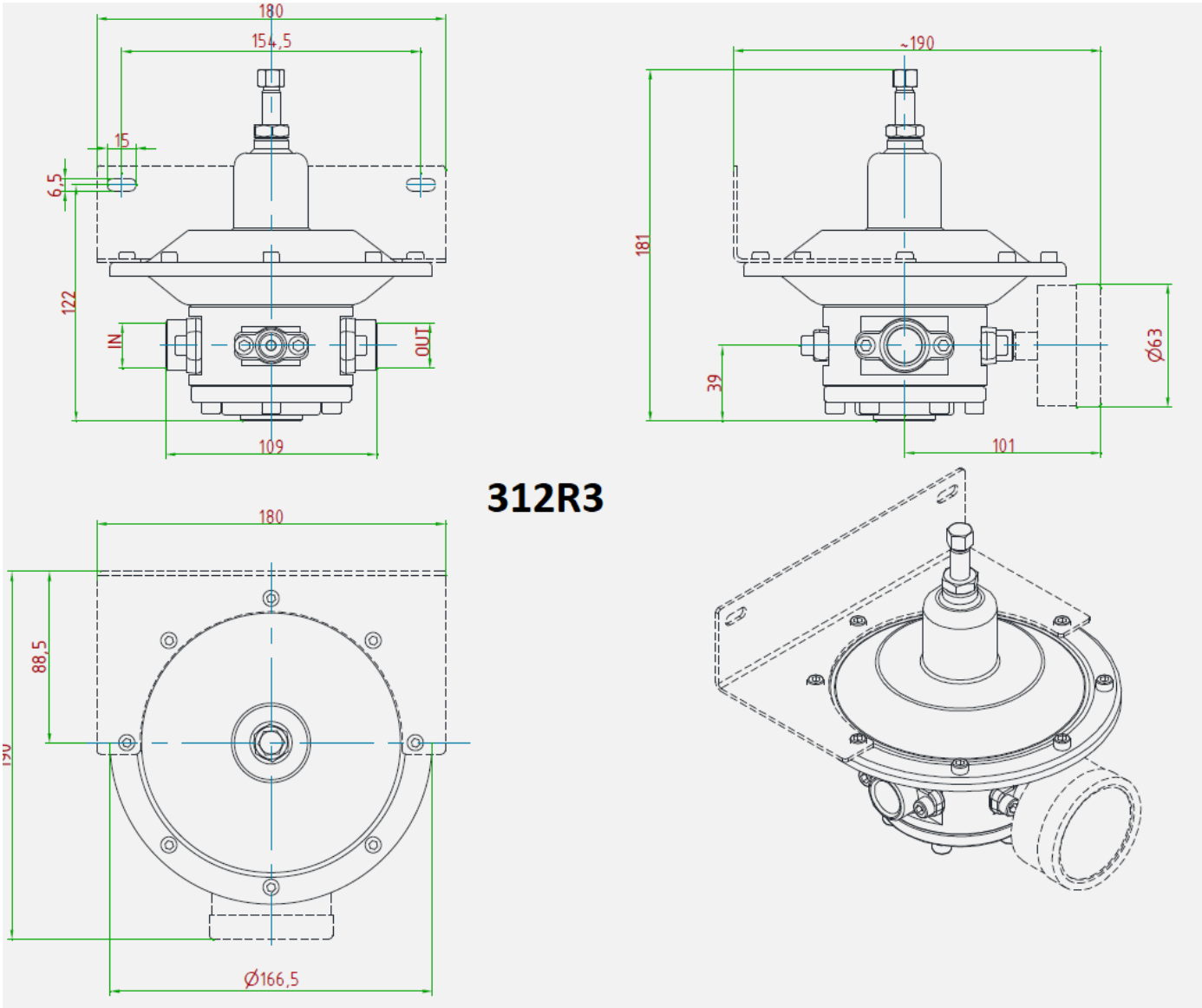
CONSTRUCTION

Material	
Body	Stainless steel AISI 316L
Internal mechanism	Stainless steel AISI 316L
Diaphragm / Seal	EPDM FDA

DIMENSIONS (mm) AND WEIGHT (kg)

DN	TYPE	Weight (Kg)	Pressure gauge port
G 1/2"	312R3	4,2	G 1/4"
G 3/4"	310R3	15,6	
G 1"	310R3	15,6	



Information given as an indication only, and subject to possible modifications

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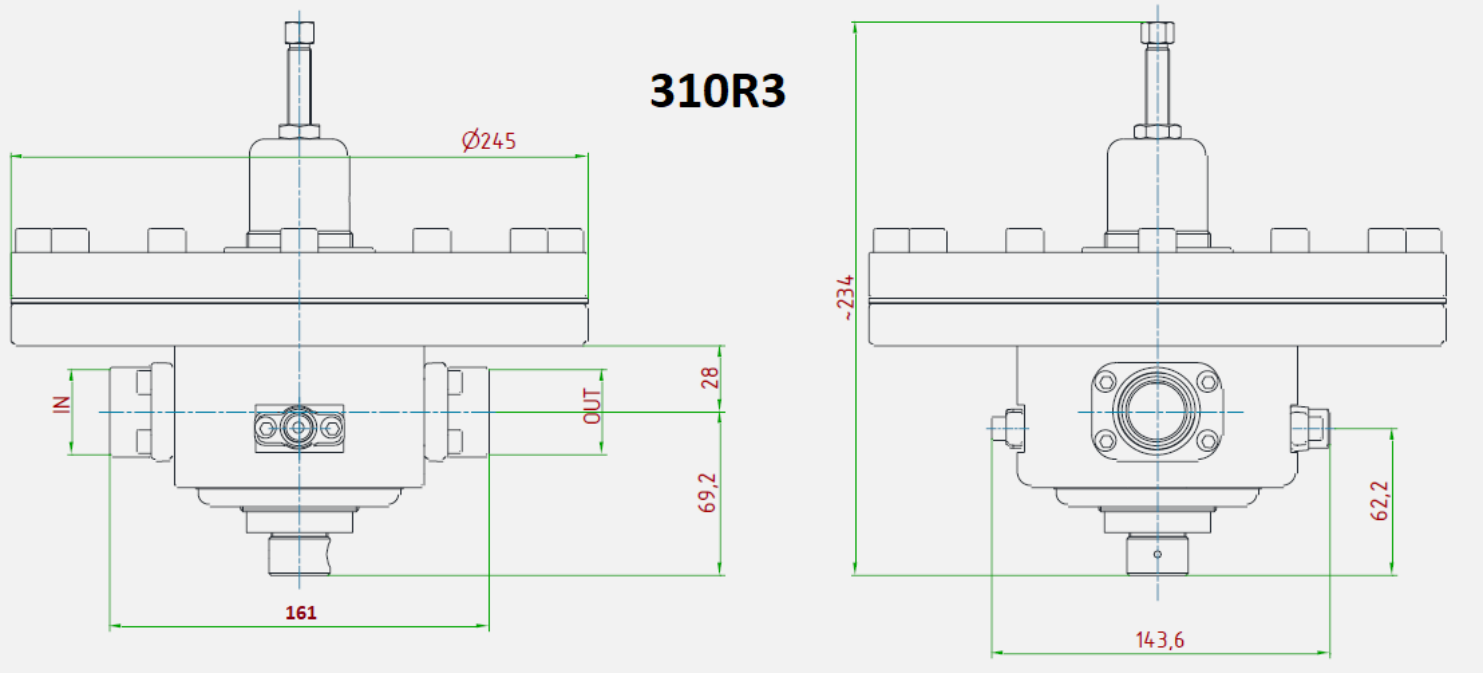
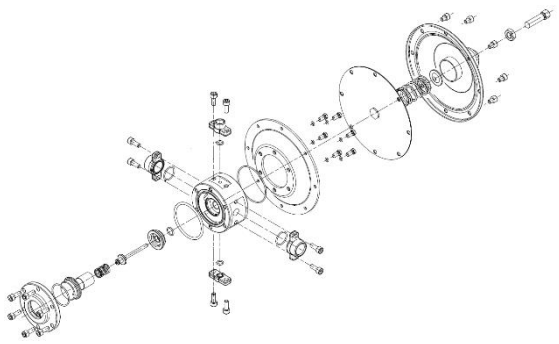


SPARE PARTS

Low pressure reducing 312R3 - 310R3	
Gaskets + Diaphragm kit	
	
https://www. .com/fr/2461-reducteur-inox-basse-pression-epdm-fda-atex.html	

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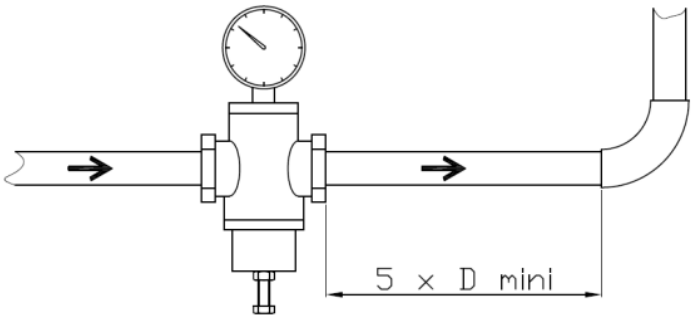
INSTALLATION

Position of mounting : the 312R3 - 310R3 low-pressure reducing can be installed in any position.

Sense of flow : Take care of the sense of mounting indicated by the arrow on the body.

Straight piping lenght : To assure a good stability of the downstream pressure and reduce the turbulences at the exit of the 312R3 - 310R3, plan before any of accident piping or device, a straight piping length at least equal to 5 x DN and 10 x DN if possible. In the case of a double pressure reduction, plan an identical length between both valves.



Upstream isolation : Plan a stop valve upstream to the 312R3 - 310R3. This one is not necessarily tight in zero flowrate and cannot be considered as an isolating valve.

Setting of the downstream pressure : Adjustment screw located at the top of the 312R3 - 310R3 cover. Turn the screw using the spanner to reach the desired pressure. Check the position of the index on the adjustment scale. Also check this value using the downstream pressure gauge.

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