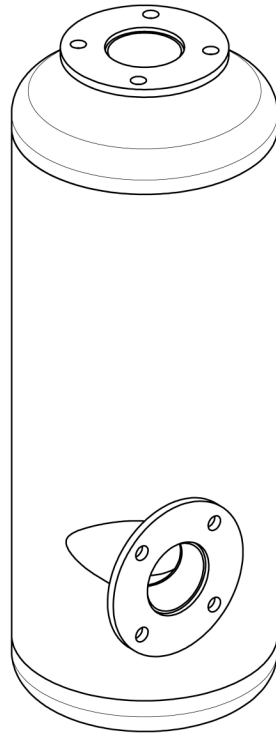


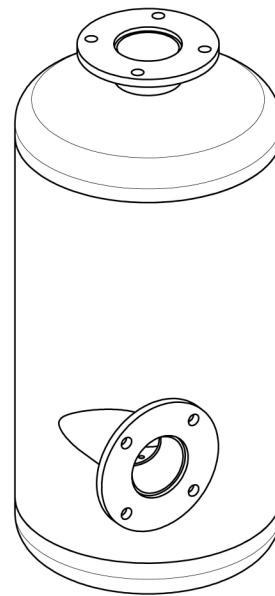
ORIGINAL INSTRUCTIONS



*PNR 122-155 SILENCER*

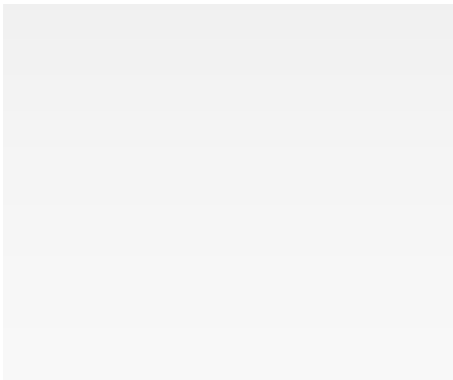


*PN 23-58 SILENCER*



TECHNICAL DATA SHEET

CODE 15470 043 00  
CODE 15470 D2C B0



COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =

## 1. General warnings

This technical data sheet contains technical information concerning silencers – oil separators suitable for decompressors of the PN and PNR series and the main installation and maintenance instructions.

Complying with the instructions contained in this technical data sheet is crucial for the recognition of warranty against defective parts. Upon receiving the goods, ensure that they are intact and have not been accidentally damaged during transport. In the event parts of the accessory must be replaced, **use only genuine spare parts**.

## 2. Technical data

The PN - PNR silencers are designed to be installed in correspondence of the discharge line of vane decompressors (typically of the PN and PNR series), used to create vacuum inside tanks.

PN - PNR silencers carry out two main functions:

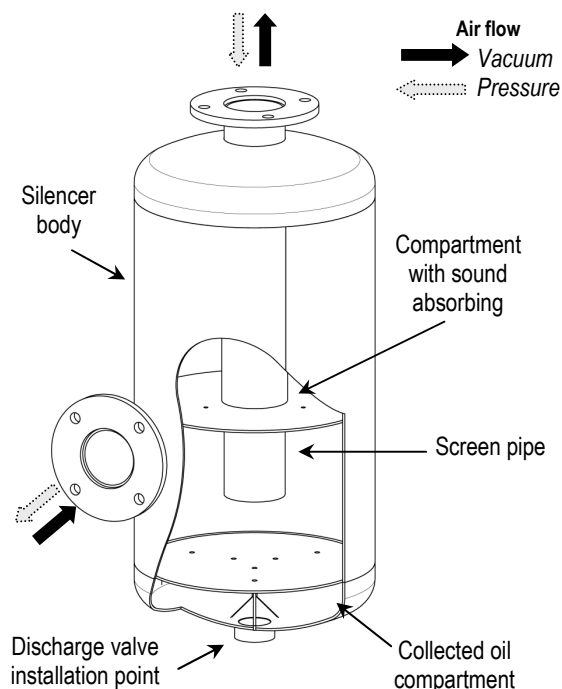
- Attenuate the noise produced by decompressor operation;
- Separate the air that is discharged in the atmosphere and the suspended oil necessary for decompressor lubrication.

PN - PNR silencers are available in two versions:

- **Iron PN 23-58 silencer**, made of **painted S235JR mild steel** (code 15470 043 00);
- **Iron PNR 122-155 silencer**, made of **painted S235JR mild steel** (code 15470 D2C B0).

All silencers are equipped with flanges for coupling to inlet and outlet piping. The PN-PNR silencers are designed to operate as muffler/exhauster (with the decompressor vacuum pump drawing air from the tank) and in compression (decompressor that pumps air into the tank e.g., discharge the material contained in it) mode.

The following figure shows a schematic diagram of a silencer, highlighting the main components.



The following table shows the main operating parameters concerning maximum flow rate, oil tank capacity, and weight of the silencer.

### Operating parameters

Parameter	PN 23-58 silencer code 15470 043 00 (mild steel)	PNR 122-155 silencer code 15470 D2C B0 (mild steel)
MAXIMUM FLOW RATE	540 m <sup>3</sup> /h	912 m <sup>3</sup> /h
OIL TRAP	3.8 l	4.4 l
WEIGHT	27 Kg	35 Kg

The following table indicates the Jurop decompressors suitable for being coupled to the various types of silencers.

Type of decompressor	PN 23-58 silencer – code 15470 043 00	PNR 122-155 silencer - 15470 D2C B0
LC 300 – LC 420		x
RV 360 – RV 520		x
PN 23 – PN 33 – PN 45 – PN 58 – PN 84	x	
PN 106 – PN 140 – PN 155		x
PNR 72 – PNR 82	x	
PNR 102 – PNR 122 – PNR 142		x

### 3. Installation

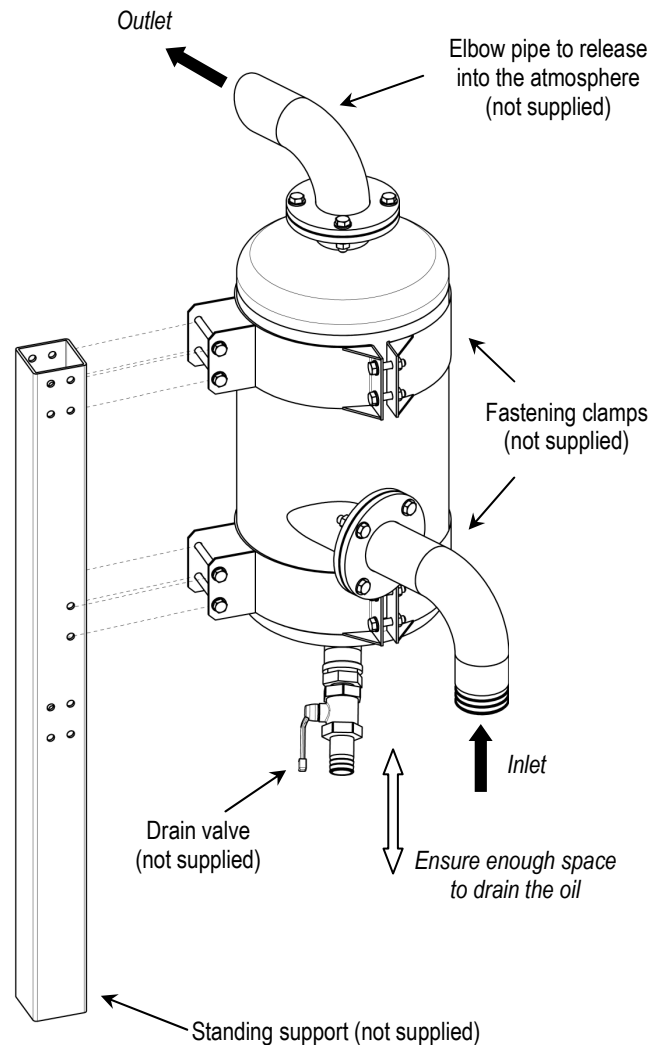
The PN - PNR silencer is designed to be installed in correspondence of the discharge line of a vane decompressor.


To ensure the reduction of the exhaust noise produced by the decompressor, we recommend installing the silencer as close as possible to it and minimising the hose section in the end part of the vacuum line.

Its operation as oil separator requires the silencer to be installed in a vertical position.

The following figure shows a schematic diagram of a possible installation of the silencer (the flow refers to operation in intake/vacuum mode). To be installed correctly, the silencer must be supported by two fastening points (e.g. with metal clamps, see spare part data sheet). The silencer requires a valve to be installed at its lower end to allow draining the oil separated from the air released in the atmosphere. We recommend positioning the silencer in order for the discharge area to be accessible.


The silencer is crossed by high temperature air, which can cause its overheating.



 **Attention: place the silencer away from the reach of operators or provide suitable guards.**


We recommend installing a curve on the outlet to prevent rain from entering. The curve must not have an excessive length (we recommend max. 300 mm); otherwise, noise attenuation performance will be affected.

Pay special attention to the vapour intaken by the vacuum pump and emitted through the silencer.

 **Attention: direct the discharge away from the intake duct of the vehicle engine.**

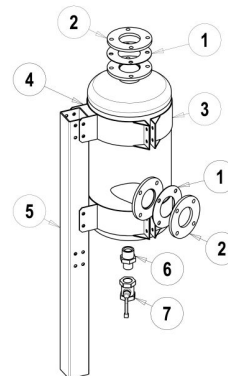
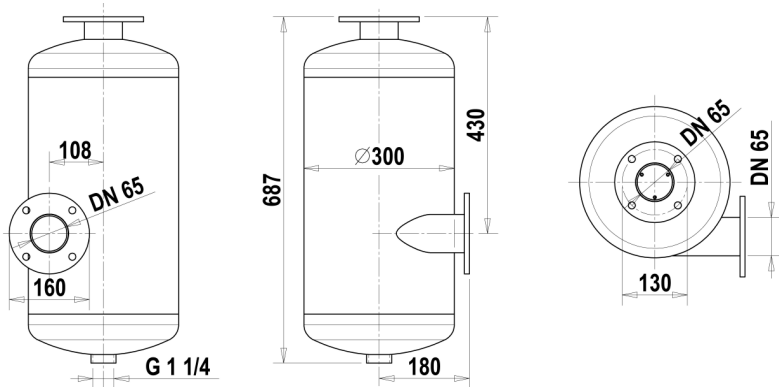
### 4. Maintenance

Besides reducing the noise produced by the air flow along the vacuum line, the silencer also traps the oil vapour at the outlet due to decompressor lubrication. Under ordinary use conditions, we recommend discharging the silencer on a daily basis.

 **Recover the drained material and dispose of it in compliance with the standards in force.**

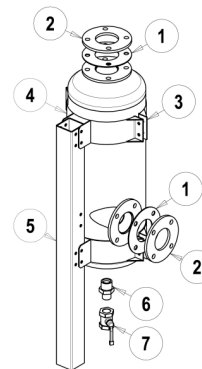
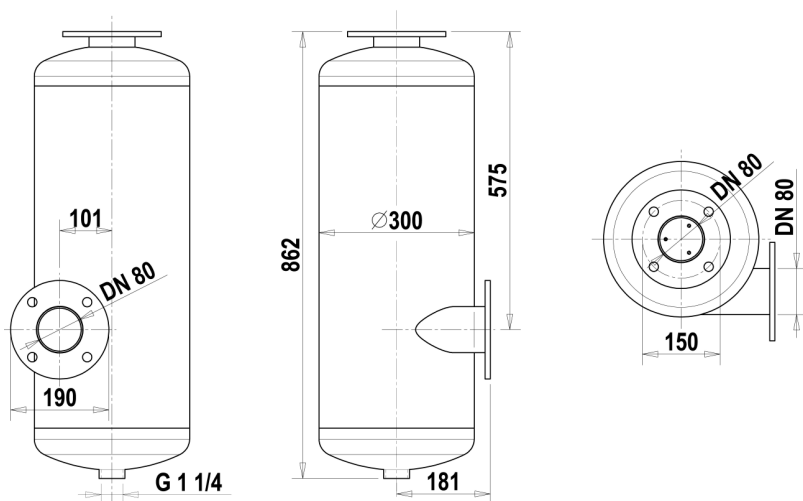
The oil must be drained through the drain valve that must be installed in correspondence of the lower hole.

Every time the silencer is drained, it is important to ensure that the volume of drained material does not exceed the volume of the silencer tank (see values indicated in paragraph 2). If so, reduce the maintenance intervals.

**PN - PNR SILENCERS**
**PN 23-58 silencer – code 15470 043 00 (MILD STEEL)**

**Accessories available upon request**

Pos.	Code	Description	Qty
1	16807BYDB0	SEALS DN65 PN6	2
2	4026713705	4-HOLE FLANGE TH.10 (IRON)	2
3	1513003IB0	IRON CLAMP D.300	2
4	15130ZURA0	IRON CLAMP D.300 WITH SUP.	2
5	1613043600	STANDING SUPPORT	1
6	4026740106	RED. NIPPLE 1" 1/4X1"	1
7	4024405004	1" BALL VALVE	1

These accessories do not include nuts and bolts.

**PN 122-155 silencer – code 15470 D2C B0 (MILD STEEL)**

**Accessories available upon request**

Pos.	Code	Description	Qty
1	16807ZSPA0	SEAL DN80 PN6	2
2	4026713006	4-HOLE FLANGE TH.10 (IRON)	2
3	1513003IB0	IRON CLAMP D.300	2
4	15130ZURA0	IRON CLAMP D.300 WITH SUP.	2
5	1613043600	STANDING SUPPORT	1
6	4026740106	RED. NIPPLE 1" 1/4X1"	1
7	4024405004	1" BALL VALVE	1

These accessories do not include nuts and bolts.