

COMPACT EJECTORS

SERIES VEN

Compact vacuum generators with a high suction capacity and reduced air consumption.
Nozzle diameter: 2,0 - 2,5 mm.



- Easy monitoring of system conditions thanks to the large, bright display
- I/O Link version
- Reduced energy costs
- Contained dimensions
- Optimum weight for high accelerations

Series VEN compact ejectors are available in two sizes (20 and 25) with I/O-Link communication and air saving circuit (I). This series is suitable for handling smooth, non porous or slightly porous items in vacuum applications with very swift pick & place operations. These devices are frequently used in automated pick & place systems in processing metal sheets, in the automotive industry, in packaging machines and robotics.

GENERAL DATA

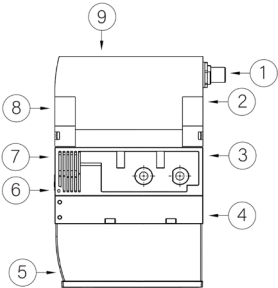
Description	Basic ejector
Materials	Technopolymer body Brass nozzle
Suction capacity	From 140 to 195 l/min.
Vacuum max.	85 %
Nozzle	2,0 mm (20) - 2,5 mm (25)

COMPACT EJECTORS
SERIES VEN - CODING EXAMPLE

CODING EXAMPLE

VEN	-	20	NC	-	I
VEN	SERIES VEN = Vacuum ejector				
20	NOZZLE DIAMETER 20 = 2,0 mm 25 = 2,5 mm				
NC	VALVE FUNCTION NC = Normally Closed (at rest, no vacuum generation) NO = Normally Open (at rest, vacuum is present)				
I	VERSION I = with air saving circuit and I/O Link communication				

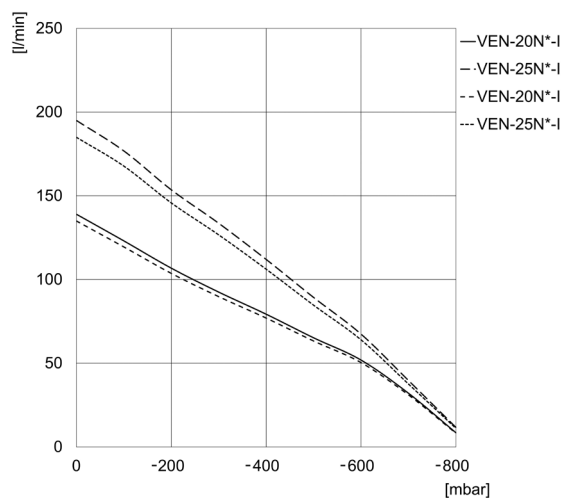
Technical data



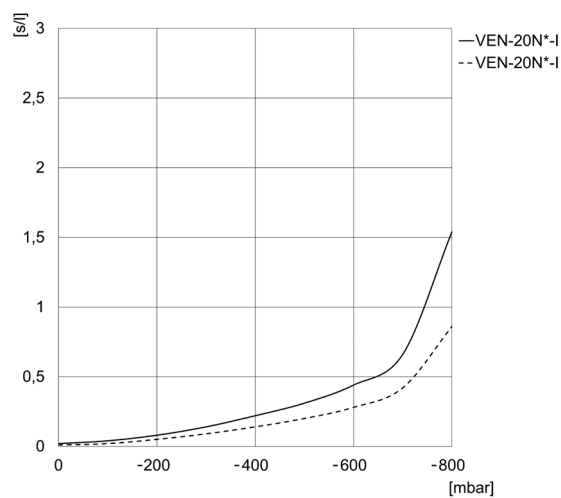
- EJECTOR SYSTEM
1 = Electrical connection M12
2 = Pneumatic valves
3 = Pneumatic connections (G3/8 e G1/4)
4 = Power blow off piston SMPi
5 = Integrated silencer
6 = Adjusting screw
7 = Protective filters
8 = Switch
9 = Display

Mod.	Nozzle Ø (mm)	Degree of evacuation (%)	Suction rate max. (l/min)	Suction rate max. (m³/h)	Air consumption (l/min)	Air consumption (m³/h)	Air cons. blow-off (l/min)	Noise level workp. gripped [db(A)]	Noise level free [db(A)]	Optimum working pressure (bar)	Internal hose diameter compressed air [mm]	Internal hose diameter vacuum [mm]	Temperature range
VEN-20N [®] -I	2	85	140	8,4	180	11,7	200	65	75	4-7	6	8	0 / 50°
VEN-25N [®] -I	2,5	85	195	11,7	290	17,4	200	75	78	4-7	8	9	0 / 50°

Diagrams VEN

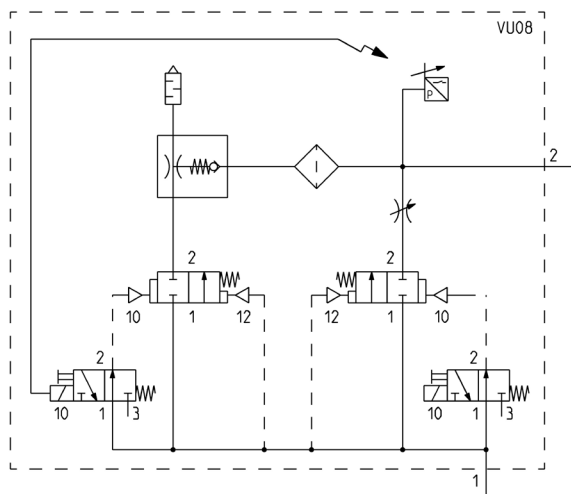


Suction rate with different vacuum values

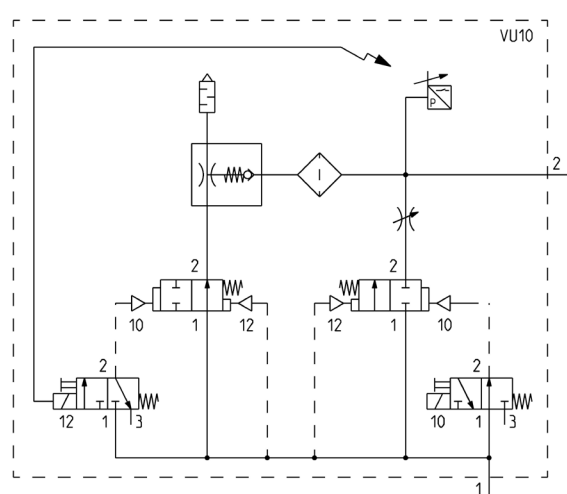


Evacuation time for different vacuum values

Operation diagram with normally closed valve

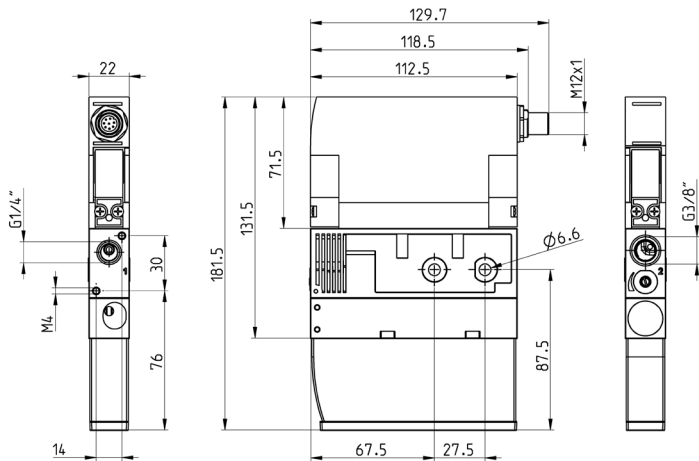


Operation diagram with normally open valve



COMPACT EJECTORS
SERIES VEN - DIMENSIONAL CHARACTERISTICS

Ven Ejectors 20 - 25



VACUUM TECHNOLOGY

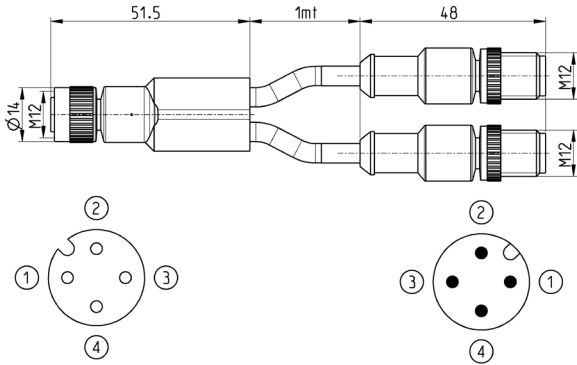
5

Mod.
VEN- ⁰⁰ N ⁰⁰ -I

Y-cable with straight M12 - 4 pin connectors

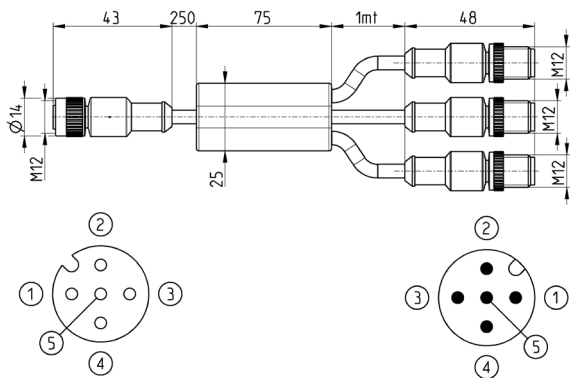


Cable for power supply and control of blow-off and suction valves, single connector



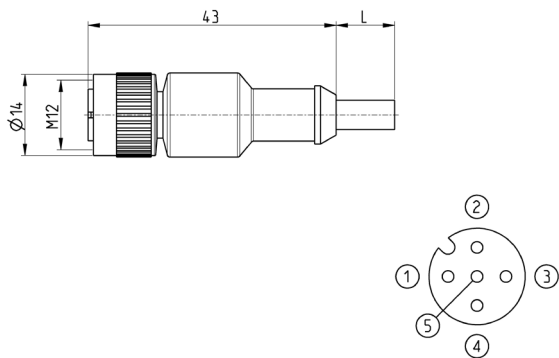
Mod.	Description	Type of connection	Connection	L [cable length] (m)
SCP-CS-Y-A	moulded cable	straight	M12 4 pin male / female	1

Y-cable with straight M12 - 5 pin connectors



Mod.				L [cable length] (m)
SCP-CS-Y-B	moulded cable	straight	M12, 5 pin male/female	1

Cable with straight M12 - 5 pin connector



Mod.	Description	Type of connector	Connection	L [cable length] (m)
CS-LF05HB-C500	moulded cable	straight	M12, 5 pin female	5