

# Oil-injected Air-end V90



**PROFILE:** Designed to offer maximum performance even in extreme conditions, efficiency and duration. It guarantees high airflow with a minimum energy consumption.

**BEARINGS:** Radial and thrust bearings are created to be lasting. Only first-quality bearings are used.

**FRONT SEALINGS:** No oil loss thanks to excellent materials and suitable dimensions.

User-friendliness for a simple and fast replacement.

**APPLICATION:** For belt and direct connections.

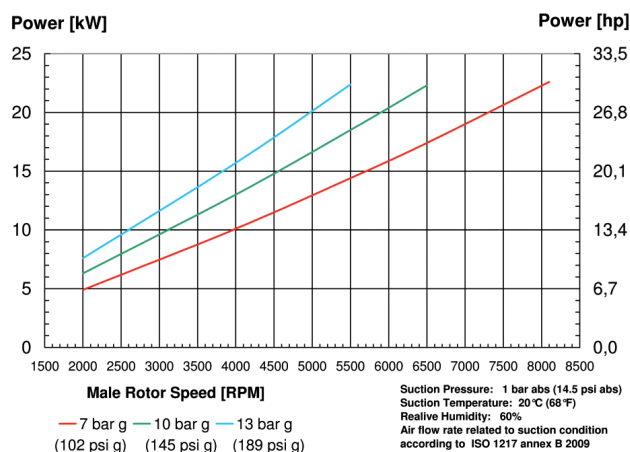
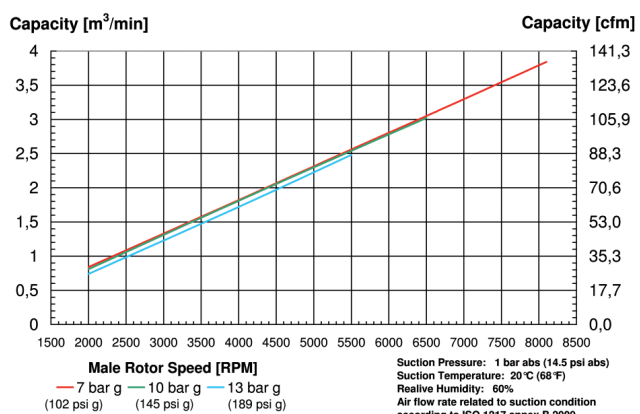
**ASSEMBLY:** Body parts are joined with O-rings. In this way, the maintenance is easy, fast and reliable.

**ROTOR ADJUSTMENT:** Threaded rings are used to adjust rotors for a very fast, reliable and repeatable maintenance.

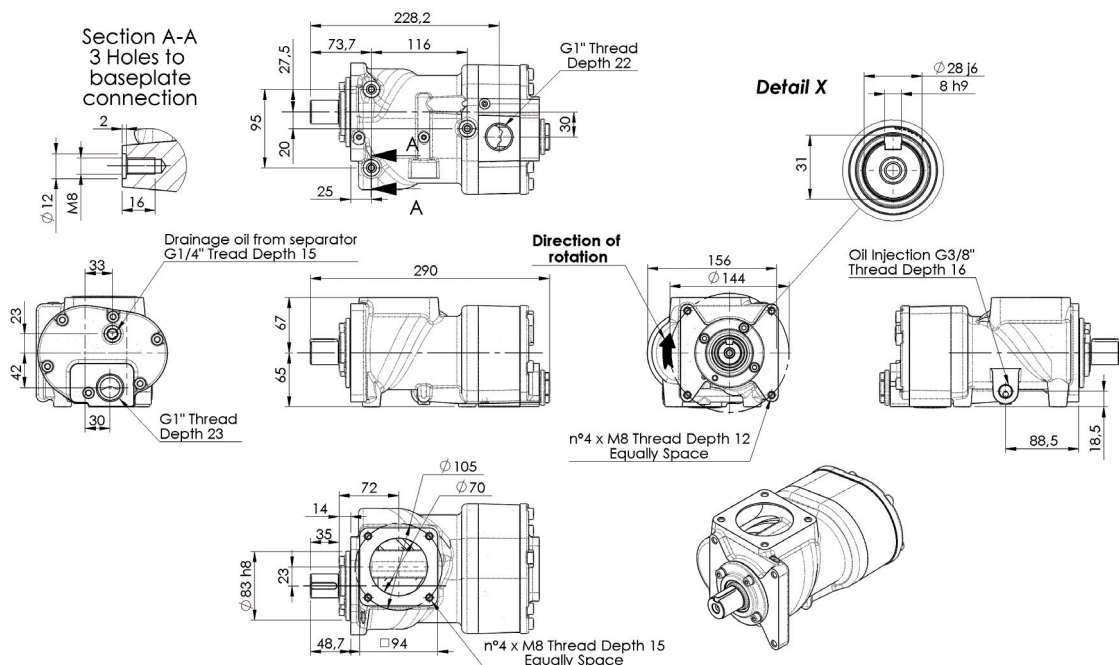
## TECHNICAL DATA

Size	V90	
Drive	Direct by coupling or belt	
Outside male diameter:	mm	89,4
	inch	3,51
Outside female diameter:	mm	71,2
	inch	2,8
L/D:	1,55	
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	0,76-3,83
	cfm	27 - 135
Max Working Pressure	bar g	13
	psi g	189
Min Working Pressure	bar g	5
	psi g	73
Oil injected Quantity	L/min	29-40
	gal/min (US)	7,7 - 10,5
Max Input Power	kW	22
	hp	30
Max main rotor speed	rpm	8100
Max outlet air/oil Temperature	°C	105
	°F	221
Weight	kg	25,5
	lb	56,2

Air flow rate related to suction condition according to ISO 1217 Annex B 2009: relative humidity=60%; suction press. (abs)=1 bar; suction temp.=20°C; disch. temp.=80°C



Drawing dimensions in mm.  
 Inch dimensions available  
 on VMC website.



# Integrated System V90/VTDM



This system integrates the properly designed combination block to the AIR-END series. It offers a unique, compact system user-friendly and fast to be assembled. The air outlet and oil inlet have been designed for simple and fast connections. Pipe length has been designed to be short for a better performance and reduce pressure drop. The position of inside components has been engineered for easy, fast and safe maintenance operations. The system offers high interchangeability.

## TECHNICAL DATA

Size		V90/VTDM
		For performances data see V90 technical data
Oil Inlet/Outlet		Rp 3/4"
Air outlet (From Air-end)	mm	Ø 60
	inch	Ø 2,36
Air Inlet (From Tank)		Rp 1-1/4"
Air outlet (From MPV )		Rp 1-1/4"
Oil nipples Size		3/4" 16 UNF, G 3/4" or 1" -12 UNF
Air nipples Size		M32x1,5 or M39x1,5
Thermostat Temp. Setting	°C	Three thermostat available: 55-70; 71-85 or 83-95
	°F	Three thermostat available: 131-158; 159,8-185 or 181,4-203
Materials		Unit is made in anodized aluminium alloy, steel and cast iron. Inside parts in aluminium alloy, steel, brass and viton sealing.
A	mm	110
	inch	4,33
A1	mm	225
	inch	8,85
B	mm	207
	inch	8,14
C1	mm	300
	inch	11,81
Y	mm	482
	inch	18,97
Weight	kg	30
	lb	70,5

