

# SISTEMA<sup>®</sup>



**PACK SMART**  
RIDE OVER  
STANDARD  
PERFORMANCE



MADE IN ITALY

# PACK SMART RIDING OVER STANDARD PERFORMANCE



## WHEREVER RELIABILITY AND EFFICIENCY ARE REQUESTED

*Pack Smart* is the best expression of integration and technological optimization that *SISTEMA* can offer on the compressor market. Synthesizing all the advantages of a problem-solving philosophy, *SISTEMA* heralds a universal range of products/ solutions for each customer's specific need.

That's why all the innovative companies in the field rely on *SISTEMA's* Pack Smart.



*Innovation concentrate*



*Integrated system*



*Design Made in Italy*



*Compact*



*Resilient*



*Cost-effective*



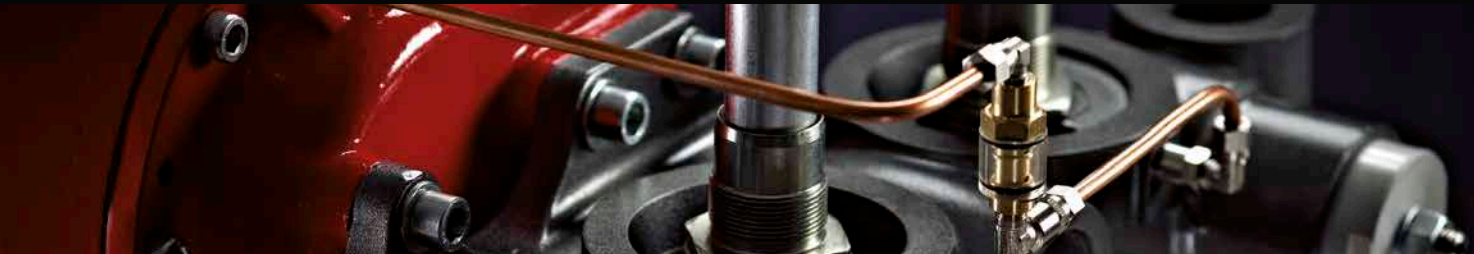
*Functional*



*Eco-sustainability*

































# TOP 10 REASONS TO CHOOSE A PACK SMART



- 1.** *Cost-effectiveness and engineering time-reduction.*
- 2.** *Just one part number for all components.*
- 3.** *Compliance with norm 2006/42/CE and PED norm 97/23/CE. ASME U STAMP no. 41.053, ASME UM STAMP No. 41.354.*
- 4.** *First-rate de-oiling (< 2 ppm) thanks to the innovative and extremely efficient system of patented oil abatement.*
- 5.** *User-friendliness and speed of assembly on a compressor: you need just a few screws to fix a Pack Smart to a machine.*
- 6.** *Reduced overall dimensions thanks to an easy and compact design.*
- 7.** *User-friendliness. All the components to be maintained are positioned appropriately for an easy and quick replacement.*
- 8.** *Testing. Each Pack Smart is tested to guarantee the greatest reliability and safety.*
- 9.** *Excellent performance. Reduced connections and an almost non-existent piping system lead to fewer a lower pressure drop and power savings.*
- 10.** *Extreme resilience and a variety of combinations. Available with on-off versions, proportional model for stationary compressors and motor-compressors, besides a wide range of other possibilities (temperature and operating pressure, voltage, certifications).*

# ALL THE PACK SMART WORLD

PACK SMART BELT  
 PACK SMART GEAR  
 PACK SMART DIRECT DRIVEN\*

	Air-end	Air-end Gear	Integrated system	Pack Smart Belt	Pack Smart Gear
V60					
V75					
V90					
V110					
V130					
V150					
V180					

All the Air-ends, Integrated and Pack Smart Systems are also available for natural gas applications.

FILTERS (air, oil, separator filter) can be supplied separately upon request.



Power	Air Capacity (Iso 1217 Annex B 1996)	Oil-Injected Quantity	Max Main Rotor Speed	Drive	Max. Working Pressure	Min. Working Pressure
kW hp	m <sup>3</sup> /min cfm	l/min gal/min (US)	rpm		bar g psig	bar g psig
From 2,2 to 7,5  From 3 to 10	0,28 - 0,97  10 - 34	11 - 15  2,9 - 4	7500	Cinghia* Ingranaggi*  Belt* Gear*	13  189	5  73
From 7,5 to 15  From 10 to 20	0,65 - 2,1  23 - 74	20 - 28  5,3 - 7,4	7500	Cinghia* Ingranaggi*  Belt* Gear*	13  189	5  73
From 7,5 to 22  From 10 to 30	0,76 - 3,83  27 - 135	29 - 40  7,7 - 10,5	7500	Cinghia* Ingranaggi*  Belt* Gear*	13  189	5  73
From 18,5 to 37  From 25 to 50	0,86 - 6  31 - 212	50 - 70  13,2 - 18,5	6000	Cinghia* Ingranaggi*  Belt* Gear*	13  189	5  73
From 22 to 45  From 30 to 60	2,2 - 8,4  78 - 297	57 - 80  15 - 21	5000	Cinghia* Ingranaggi*  Belt* Gear*	13  189	5  73
From 37 to 75  From 50 to 100	2,6 - 13  92 - 459	75 - 105  20 - 28	5600	Cinghia* Ingranaggi*  Belt* Gear*	13  189	5  73
From 75 to 110  From 101 to 14	7,5 - 17,7  266 - 625	65 - 140  17 - 37	4700	Cinghia* Ingranaggi*  Belt* Gear*	13  189	5  73

\* Air-ends, Integrated and Pack Smart Systems can be supplied with relative direct-driven kit (Bell housing + spider couplings)



# SPECIAL APPLICATIONS

*Products designed for special application fields of compressed air*

## AUTOMOTIVE AND PUBLIC TRANSPORTATION

*The trend to manufacture more and more compact, light, performing, clean and noise-free public vehicles, like trains, buses, subways etc., makes SISTEMA's packsmart the most innovative and cutting-edge solution in the field as to compressed air feeding of a braking system, door opening, pneumatic suspensions, service compressed air and so on. Perfectly complying with all the requirements enforced by the Mass Transit Authorities and OEM's most cutting-edge quality and safety standards, a packsmart can be easily mounted in machines already running, thanks to SISTEMA Engineering's support available to customers during all the phases of its relative streamlining.*



## GAS-BIOGAS COMPRESSORS

*The growing expansion in the field of renewable energies in the last years has strongly spurred the request of compressors for biogas and natural gas pumping. SISTEMA's Research & Development department has therefore engineered a special range of products (intake valves, minimum pressure valves, integrated systems) that is able, thanks to an accurate material and treatment selection, to control every interaction with any gas mixture in particularly aggressive environments, guaranteeing great performances and safe reliability in the course of time.*



# OIL-INJECTED AIR-END V60



## MAIN FEATURES:

**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR ADJUSTMENT:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative direct-driven kit (bell housing + spider couplings).

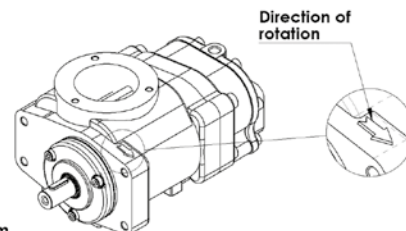
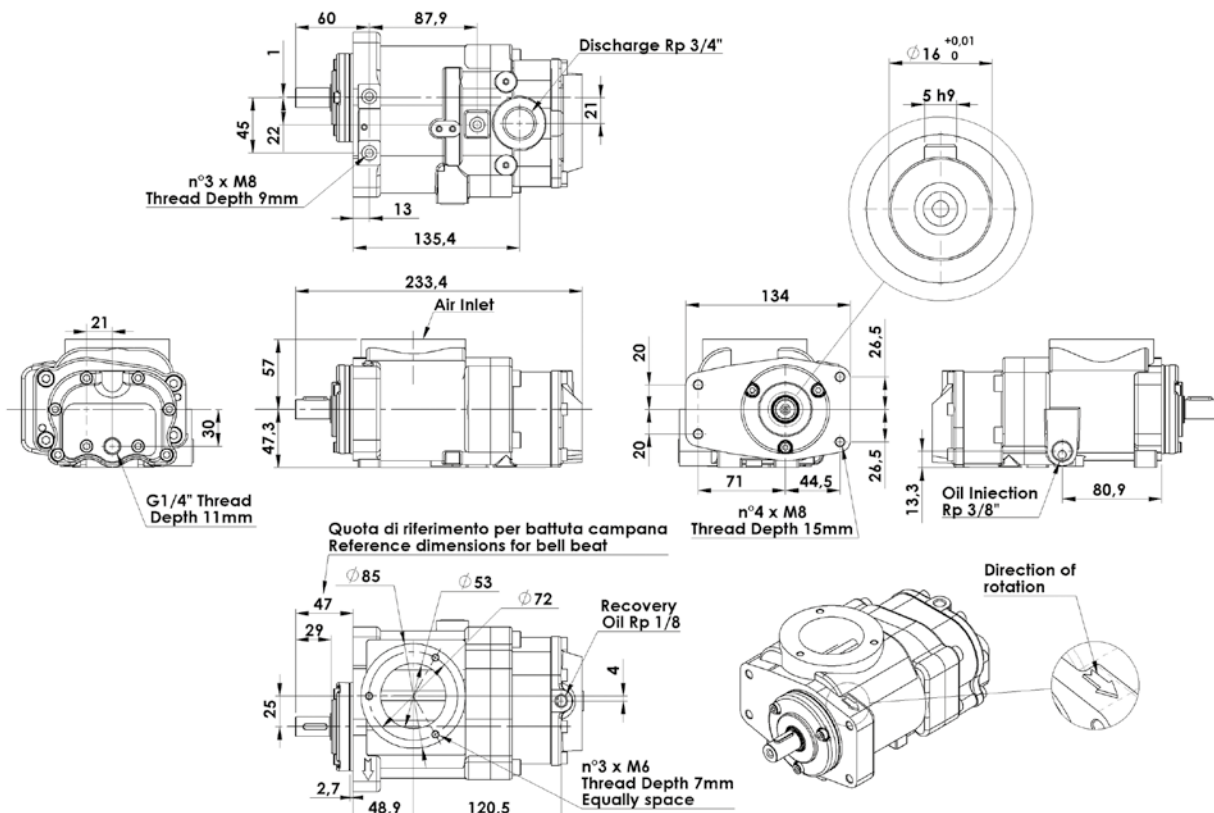
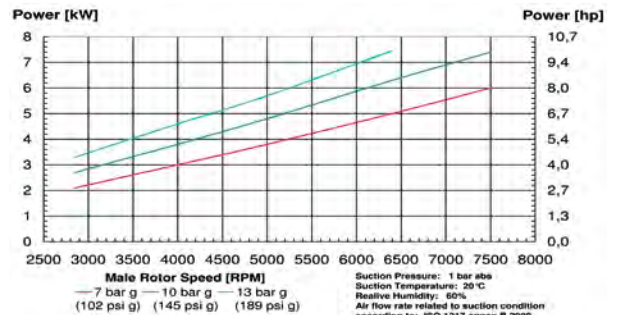
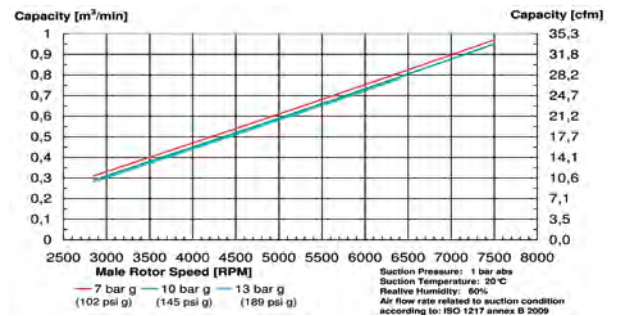
**SPECIAL APPLICATION:** Air-end are also available for Natural Gas applications.

## MAINTENANCE:

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		V60	V60G
Outside male diameter:	mm - inch	59.7 - 2,35	
Outside female diameter:	mm - inch	47.7 - 1,88	
L/D:		1,55	
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	0,28 - 0,97	
	cfm	10 - 34	
Max Working Pressure	bar g - psi g	13 - 189	
Min Working Pressure	bar g - psi g	5 - 73	
Oil injected Quantity	L/min	11 - 15	
	gal/min (US)	2,9 - 4	
Max Input Power	kW	7,5	
	hp	10	
Max main rotor speed	rpm	7500	
Max outlet air/oil Temperature	°C - °F	105 - 221	
Weight	kg - lb	8.9 - 20	11 - 24,2

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



Pack Smart V60



Pack Smart V61G



Pack Smart V60D

**MAIN FEATURES:**

**AIR-END:** Top-quality components and cutting-edge technology ensure reliability and long-lasting performance. Available in belt and gear-driven versions. **INTAKE VALVE:** Different working systems available: E (on-off), PM (totally pneumatic), P (hybrid) and NR (only with a check valve). **COMBINATION BLOCK SYSTEM:** It includes a **thermostatic** and **minimum** pressure valve, supports for **spin-on separators** and oil filters, a relative wide range of nipples. Thermostatic units available at different working temperatures. **OIL RECOVERY VIEWER:** Equipped with a check valve and calibrated nozzle. **SAFETY VALVE:** CE certified, available for different working pressures. **TANK SEPARATOR:** Tested and certified for working pressures up to 15 bars. Equipped with filling plug, drainage tap and oil level viewer. Different certifications (CE, ASME, etc.) provided upon request. **FILTERS:** air, oil and separator filters supplied separately on demand. **DIRECT DRIVEN:** Pack Smart can be supplied with relative direct-driven kit (bell housing + spider couplings).

**SPECIAL APPLICATION:** PackSmart are also available for Natural Gas applications.

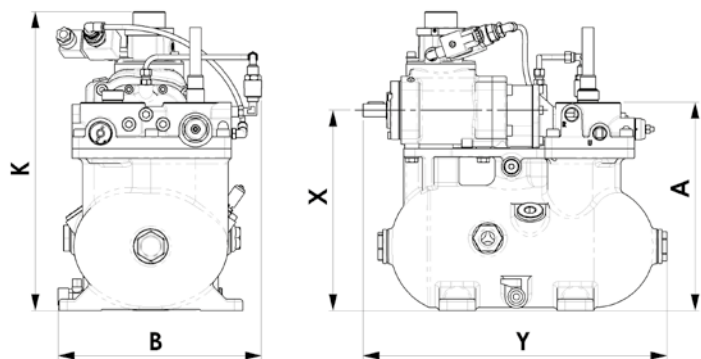
**MAINTENANCE:**

The wear-and-tear of the Integrated and PackSmart systems depends on compressor applications and operating parameters. Their inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions indicated in the maintenance and trouble-shooting document.

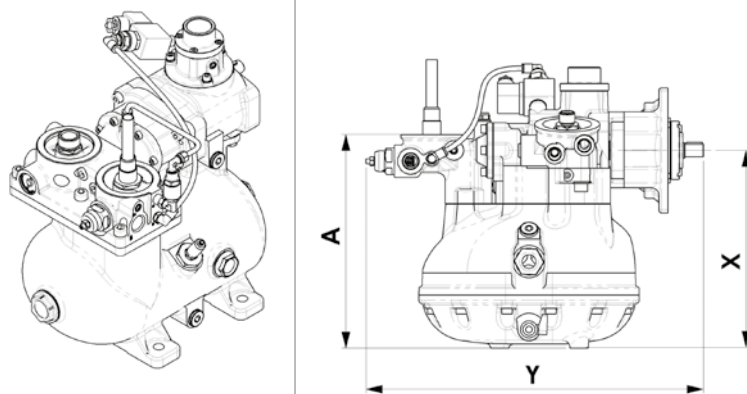
TECHNICAL DATA		PackSmart V60D	PackSmart V60B	PackSmart V61B	PackSmart V61G
Power	kW	from 2,2 to 3	from 4 to 7,5		
	hp	from 3 to 4	from 5,5 to 10		
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	see diagram of V60			
Working Pressure	bar	see diagram of V60			
Oil Flow Rate	L/min	12.5 max	15 max		
	gal/min (US)	3,3 max	4 max		
Oil Inlet/Outlet	inch	3/8" Gas	3/8" Gas		
Air outlet (From MPV )	inch	1/2" Gas	1/2" Gas		
Oil nipples Size	inch	3/4"-16 UNF or 3/4"GAS or 1"-12 UNF			
Air nipples Size	mm	M22 x 1.5 or M24 x 1.5			
Thermostat Temperature Setting available	°C	55-70 or 71-85 or 83-95			
	°F	131-158 or 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 FPM/FKM sealing.			
Dimension		PackSmart V60D	PackSmart V60B	PackSmart V61B	PackSmart V61G
Weight	kg - lb	19 - 42	31 - 68	16.5 - 36,4	19 - 42
Y	mm - inch	424 - 16,7	369 - 14,52	364 - 14,3	416 - 16,4
X	mm - inch	213 - 8,38	246 - 9,68	243.5 - 9,6	
K	mm - inch	330 - 12,99	368 - 14,48	350 - 13,8	
B	mm - inch	270 - 10,62	254 - 10	260 - 10,2	
A	mm - inch	223 - 8,77	256 - 10,07	263 - 10,3	

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

Pack Smart V60



Pack Smart V61G





# OIL- INJECTED AIR-END V75



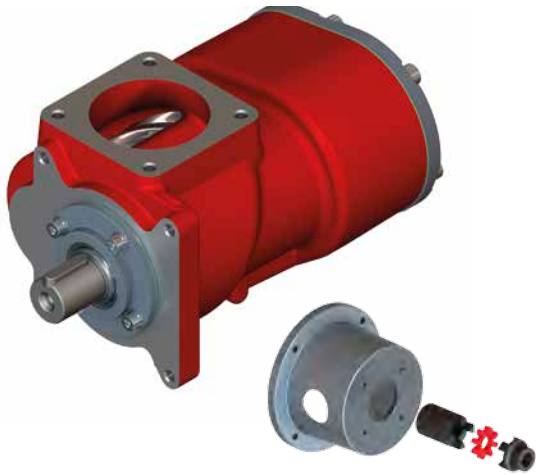
## MAIN FEATURES:

**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR Adjustment:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative direct-driven kit (bell housing + spider couplings).

**SPECIAL APPLICATION:** Air-end are also available for Natural Gas applications.

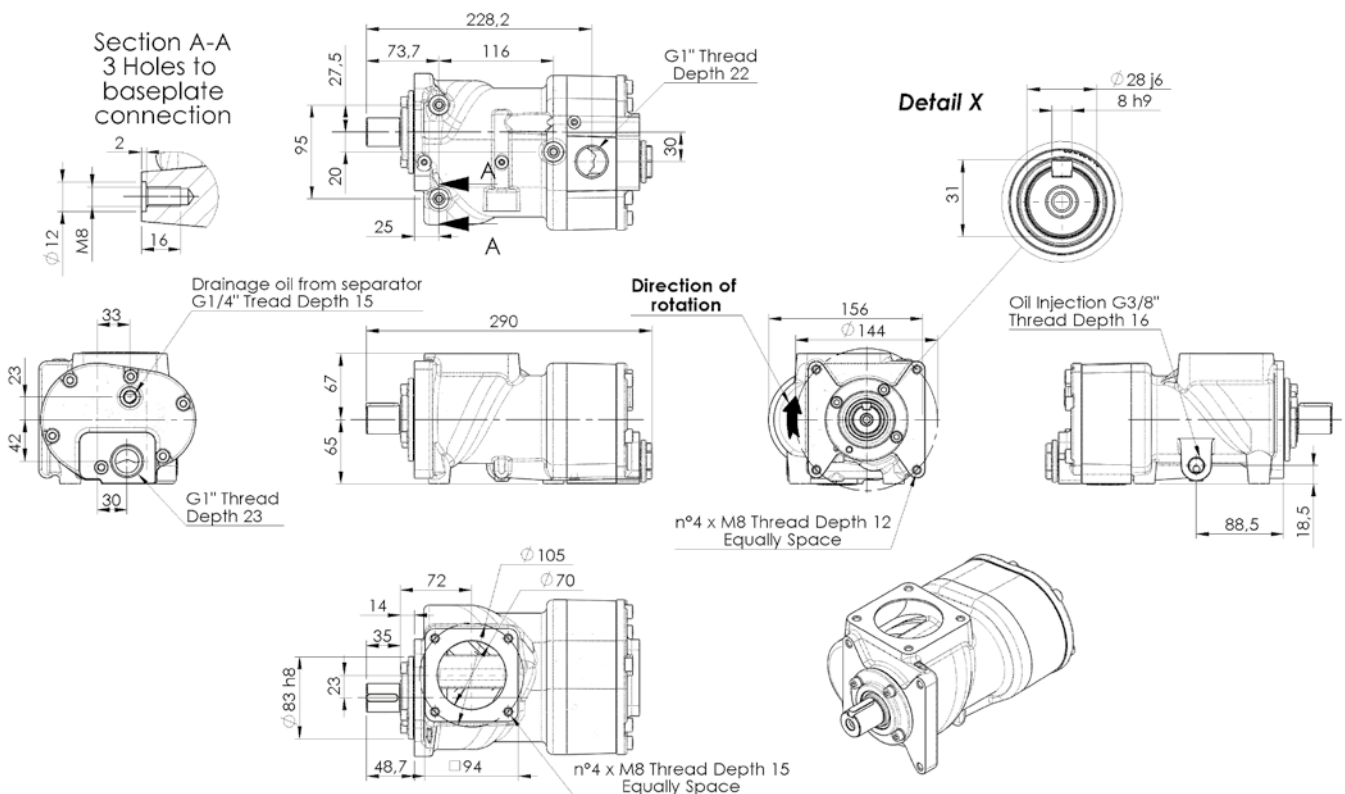
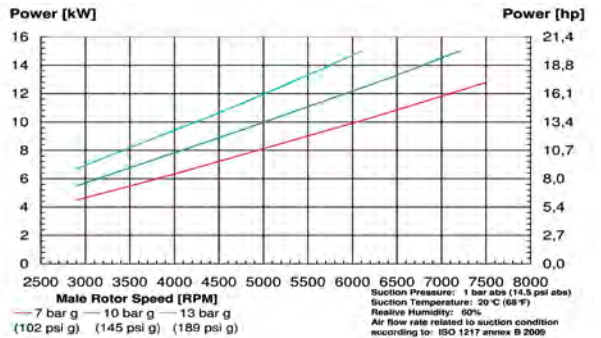
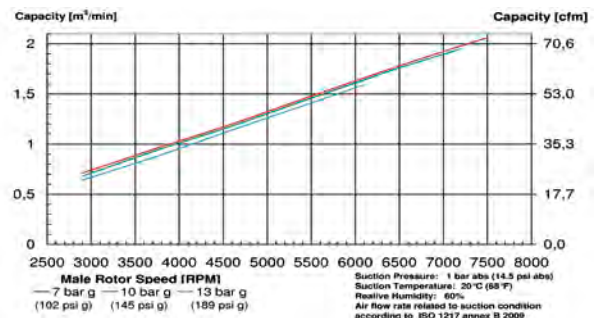
## MAINTENANCE:

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.



TECHNICAL DATA		V75	V75G
Outside male diameter:	mm - inch	73.4 - 2.88	
Outside female diameter:	mm - inch	56.6 - 2.22	
L/D:		1,65	
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	0,65 - 2,1	
	cfm	23 - 74	
Max Working Pressure	bar g - psi g	13 - 189	
Min Working Pressure	bar g - psi g	5 - 73	
Oil injected Quantity	L/min	20-28	
	gal/min (US)	5,3 - 7,4	
Max Input Power	kW	15	
	hp	20	
Max main rotor speed	rpm	7500	
Max outlet air/oil Temperature	°C - °F	105 - 221	
Weight	kg - lb	16 - 35	23 - 51

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



# PACK SMART V75 PACK SMART V76G



Pack Smart V75

Pack Smart V76G

**MAIN FEATURES:**

**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR Adjustment:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative direct-driven kit (bell housing + spider couplings).

**SPECIAL APPLICATION:** PackSmart are also available for Natural Gas applications.

**MAINTENANCE:**

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.



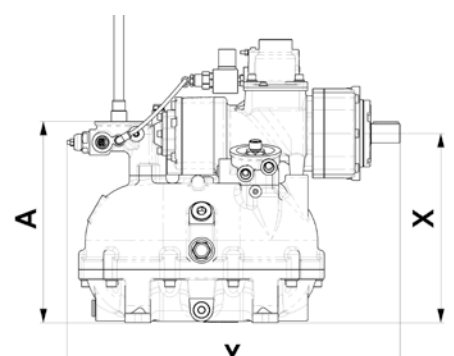
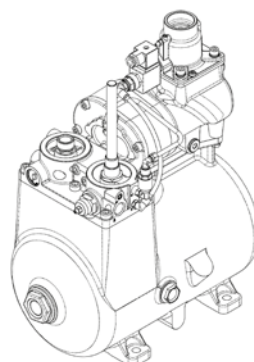
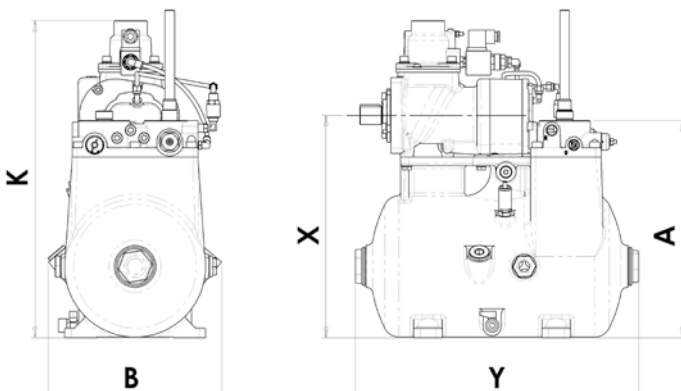
Pack Smart V75D

TECHNICAL DATA		For performances data see V75 technical data		
Oil Inlet/Outlet	inch	3/8" Gas		
Air Outlet (From MPV)	inch	1/2" Gas		
Oil nipples Size	inch	3/4"-16 UNF or 3/4"GAS or 1"-12 UNF		
Air nipples Size	mm	M22 x 1.5 or M24 x 1.5		
Thermostat Temperature Setting available	°C	55-70 or 71-85 or 83-95		
	°F	131-158 or 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 FPM/FKM sealing.		
Dimension		Pack Smart V75	Pack Smart V76	Pack Smart V76G
Weight	kg - lb	53 - 111	46 - 101.4	53 - 111
Y	mm - inch	442 - 17,4	434 - 17,1	522 - 2,5
X	mm - inch	345 - 13,6	297 - 11,7	
K	mm - inch	492 - 19,4	444 - 17,5	
B	mm - inch	270 - 10,6	318 - 12,5	
A	mm - inch	337 - 13,3	316 - 12,4	

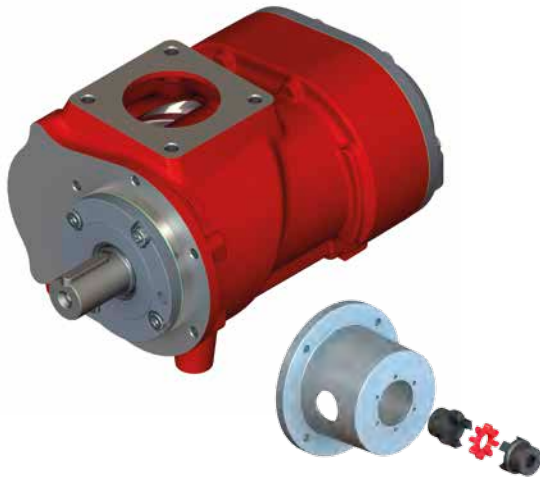
Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

Pack Smart V75

Pack Smart V76G



# OIL- INJECTED AIR-END V90



## MAIN FEATURES:

**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR Adjustment:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative **direct-driven kit (bell housing + spider couplings).**

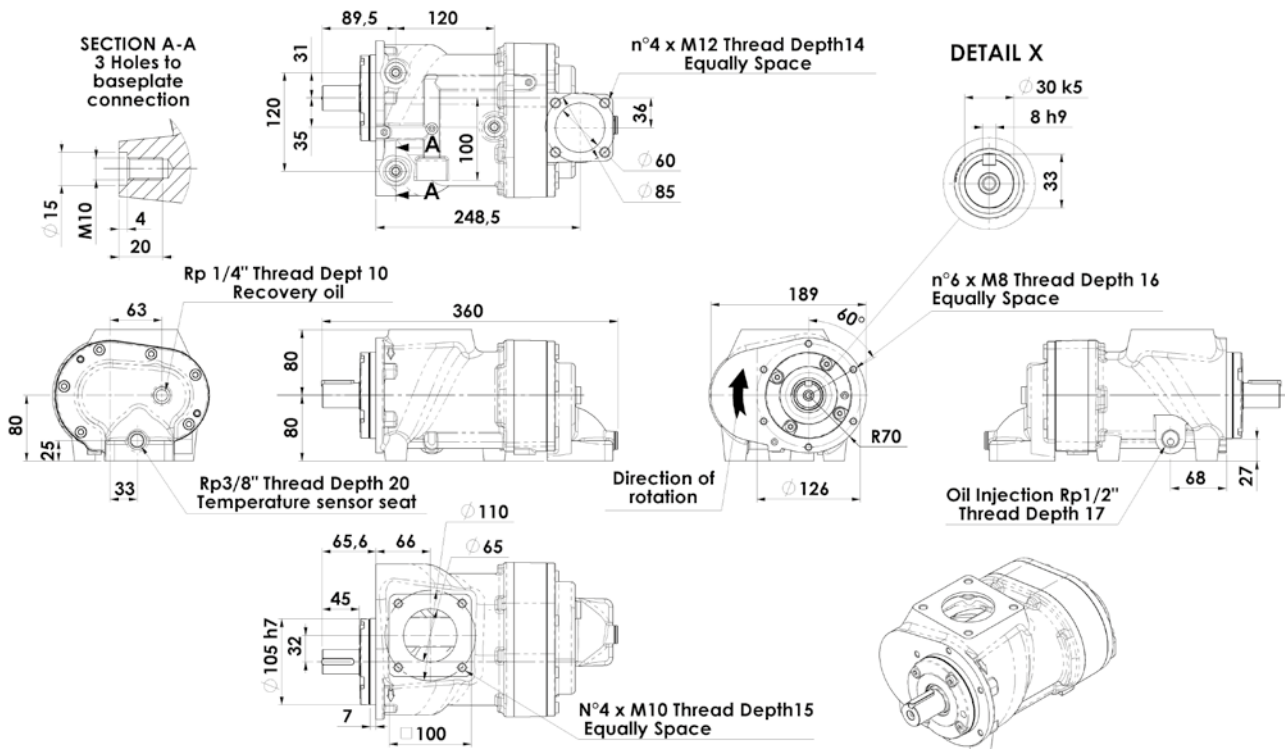
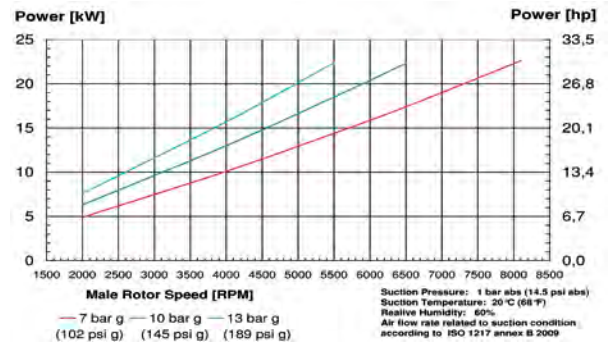
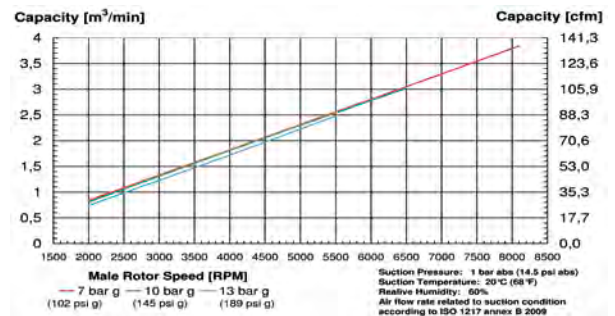
**SPECIAL APPLICATION:** Air-end are also available for Natural Gas applications.

## MAINTENANCE:

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		V90	V90G
Outside male diameter:	mm - inch	89,4 - 3,51	
Outside female diameter:	mm - inch	71,2 - 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 - psi g	13 - 189	
Min Working Pressure	bar g - psi g	5 - 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 - °F	105 - 221	
Weight	kg - lb	25,5 - 56,2	33 - 73

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



# INTEGRATED SYSTEM V90/ VTDM PACK SMART V90G



## Integrated System V90/VTDM

## Pack Smart V90G

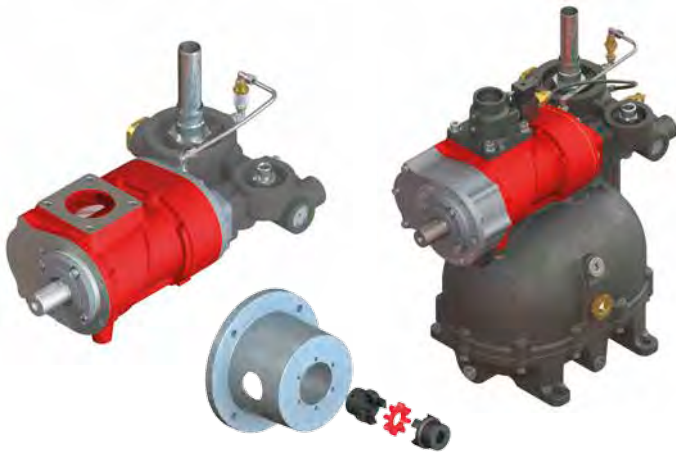
### MAIN FEATURES:

**AIR-END:** Top-quality components and cutting-edge technology ensure reliability and long-lasting performance. Available in belt and gear-driven versions.  
**INTAKE VALVE:** Different working systems available: E (on-off), PM (totally pneumatic), P (hybrid) and NR (only with a check valve).  
**COMBINATION BLOCK SYSTEM:** It includes a thermostatic and minimum pressure valve, supports for spin-on separators and oil filters, a relative wide range of nipples. Thermostatic units available at different working temperatures.  
**OIL RECOVERY VIEWER:** Equipped with a check valve and calibrated nozzle.  
**SAFETY VALVE:** CE certified, available for different working pressures.  
**TANK SEPARATOR:** Tested and certified for working pressures up to 15 bars. Equipped with filling plug, drainage tap and oil level viewer. Different certifications (CE, ASME, etc.) provided upon request.  
**FILTERS:** air, oil and separator filters supplied separately on demand.  
**DIRECT DRIVEN:** Integrated and Pack Smart systems supplied with relative direct-driven kit (bell housing + spider couplings).

**SPECIAL APPLICATION:** PackSmart are also available for Natural Gas applications.

### MAINTENANCE:

The wear-and-tear of the Integrated and PackSmart systems depends on compressor applications and operating parameters. Their inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions indicated in the maintenance and trouble-shooting document.

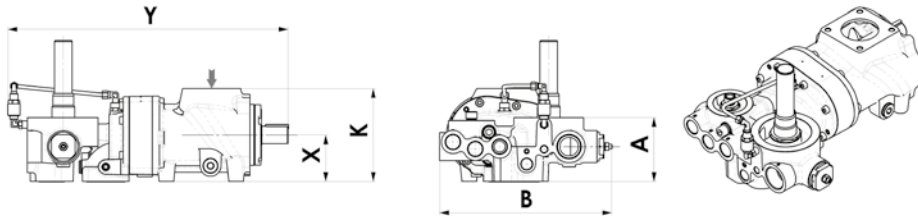


Pack Smart V90D

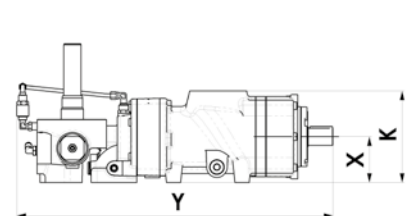
TECHNICAL DATA		For performances data see V90 technical data			
Oil Inlet/Outlet	inch	3/4" Gas			
Air outlet (From Air-end)	mm - inch	Ø60 - Ø2,36			
Air Inlet (From Tank)	inch	1 1/4" Gas			
Air outlet (From MPV)	inch	1 1/4" Gas			
Oil nipples Size	inch	3/4"-16 UNF or 3/4"GAS or 1"-12 UNF			
Air nipples Size	mm	M32x1,5 or M39x1,5			
Thermostat Temperature Setting available	°C	55-70 or 71-85 or 83-95			
	°F	131-158 or 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 FPM/FKM sealing.				
Dimensions		V90/VTDM	V90G/VTDM	Pack Smart V90	Pack Smart V90G
Weight	kg - lb	30 - 70,5	36.5 - 80,5	67 - 147	73.5 - 162
Y	mm - inch	482 - 18,97	553 - 21,8	522 - 20,6	593 - 23,3
X	mm - inch	80 - 3,15		389 - 15,31	
K	mm - inch	160 - 6,3		549 - 21,61	
B	mm - inch	300 - 11,81		345 - 13,6	
A	mm - inch	110 - 4,33		418 - 16,46	

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

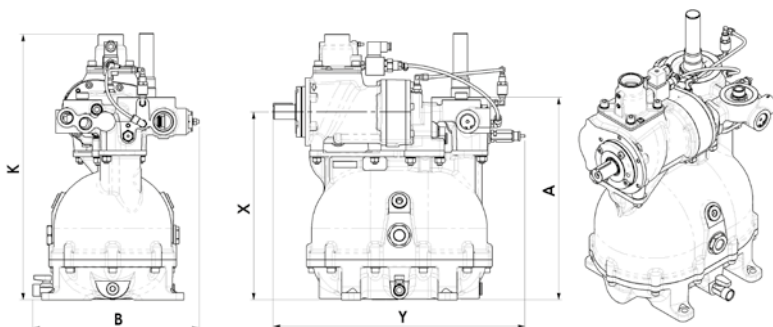
### V90 / VTDM



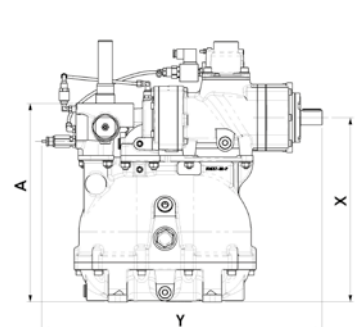
### V90G / VTDM



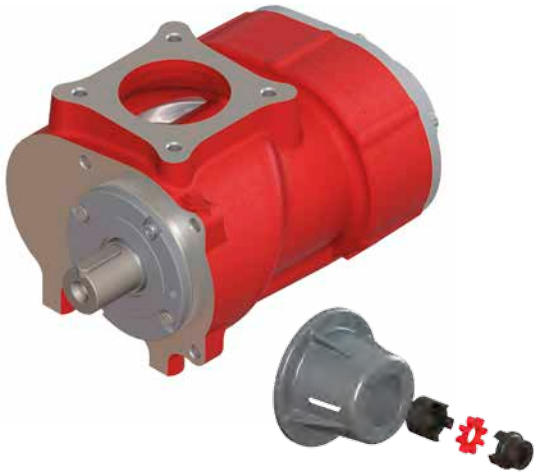
### Pack Smart V90



### Pack Smart V90G



# OIL-INJECTED AIR-END V110



## MAIN FEATURES:

**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR Adjustment:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative **direct-driven kit (bell housing + spider couplings).**

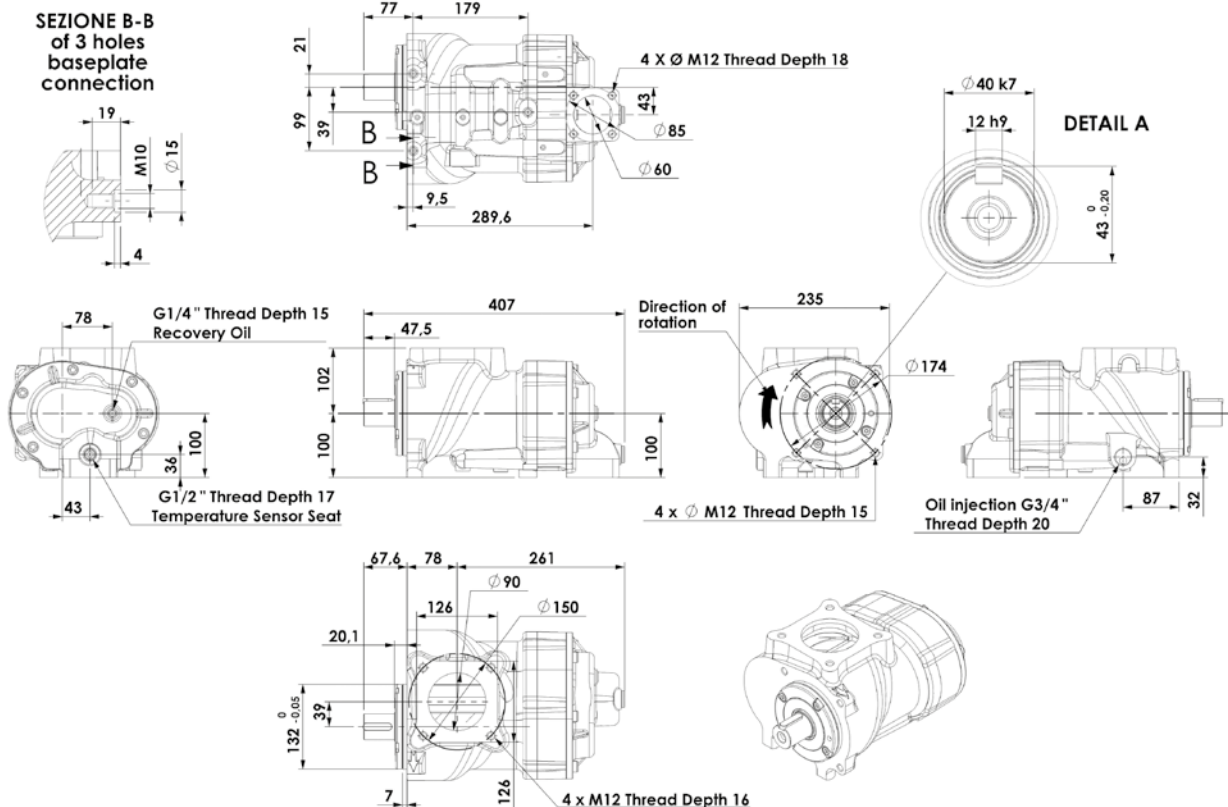
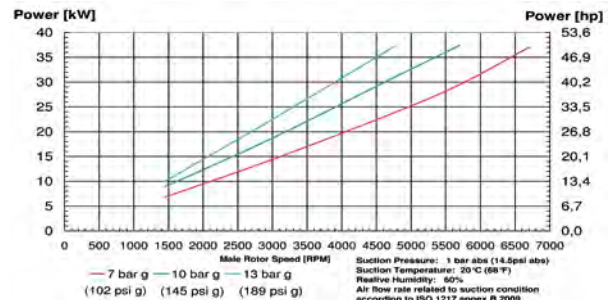
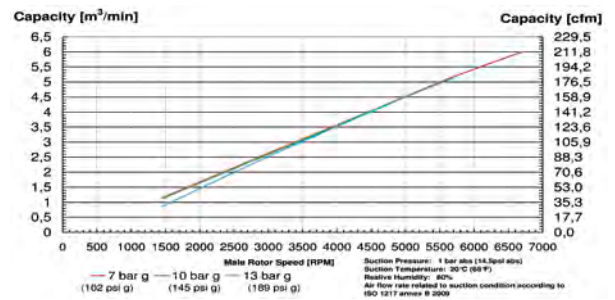
**SPECIAL APPLICATION:** Air-end are also available for Natural Gas applications.

## MAINTENANCE:

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		V110	V110G
Outside male diameter:	mm - inch	111.3 - 4,4	
Outside female diameter:	mm - inch	88 - 3,46	
L/D:		1,55	
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	0,86 - 6	
	cfm	31 - 212	
Max Working Pressure	bar g - psi g	13 - 189	
Min Working Pressure	bar g - psi g	5 - 73	
Oil injected Quantity	L/min	50 - 70	
	gal/min (US)	13,2 - 18,5	
Max Input Power	kW	37	
	hp	50	
Max main rotor speed	rpm	6700	
Max outlet air/oil Temperature	°C - °F	105 - 221	
Weight	kg - lb	45 - 99	53 - 117

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



# INTEGRATED SYSTEM V110/ VTDM PACK SMART V110G



## Integrated System V110/VTDM

## Pack Smart V110G

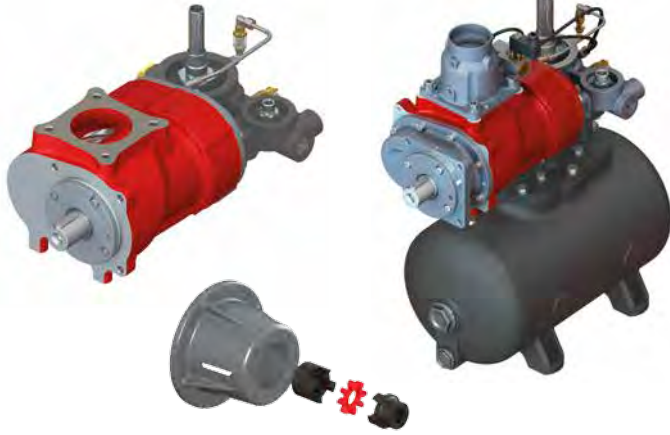
### MAIN FEATURES:

**AIR-END:** Top-quality components and cutting-edge technology ensure reliability and long-lasting performance. Available in belt and gear-driven versions. **INTAKE VALVE:** Different working systems available: E (on-off), PM (totally pneumatic), P (hybrid) and NR (only with a check valve). **COMBINATION BLOCK SYSTEM:** It includes a thermostatic and minimum pressure valve, supports for spin-on separators and oil filters, a relative wide range of nipples. Thermostatic units available at different working temperatures. **OIL RECOVERY VIEWER:** Equipped with a check valve and calibrated nozzle. **SAFETY VALVE:** CE certified, available for different working pressures. **TANK SEPARATOR:** Tested and certified for working pressures up to 15 bars. Equipped with filling plug, drainage tap and oil level viewer. Different certifications (CE, ASME, etc.) provided upon request. **FILTERS:** air, oil and separator filters supplied separately on demand. **DIRECT DRIVEN:** Integrated and Pack Smart systems supplied with relative direct-driven kit (bell housing + spider couplings).

**SPECIAL APPLICATION:** PackSmart are also available for Natural Gas applications.

### MAINTENANCE:

The wear-and-tear of the Integrated and PackSmart systems depends on compressor applications and operating parameters. Their inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions indicated in the maintenance and trouble-shooting document.

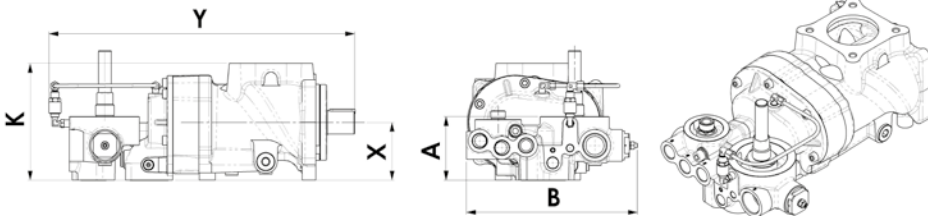


Pack Smart V110D

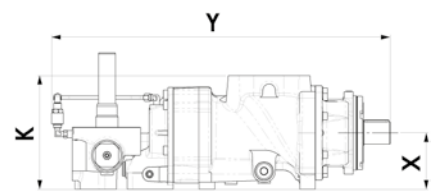
Size		For performances data see V110 technical data			
Oil Inlet/Outlet	inch	3/4" Gas			
Air outlet (From Air-end)	mm - inch	Ø60 - Ø2,36			
Air Inlet (From Tank)	inch	1 1/4" Gas			
Air outlet (From MPV)	inch	1 1/4" Gas			
Oil nipples Size	inch	3/4"-16 UNF or 3/4"GAS or 1"-12 UNF			
Air nipples Size	mm	M32x1,5 or M39x1,5			
Thermostat Temperature Setting available	°C	55-70 or 71-85 or 83-95			
	°F	131-158 or 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 FPM/FKM sealing.			
Dimensions		V110/VTDM	V110G/VTDM	Pack Smart V110	Pack Smart V110G
Weight	kg - lb	52 - 114,5	60 - 132,3	113 - 247	121 - 267
Y	mm - inch	532 - 20,94	602 - 23,7	627 - 24,7	697 - 27,44
X	mm - inch	100 - 9,56		486,5 - 19,2	
K	mm - inch	202 - 7,95		785 - 30,9	
B	mm - inch	300 - 11,8		325 - 12,8	
A	mm - inch	110 - 4,33		497 - 19,6	

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

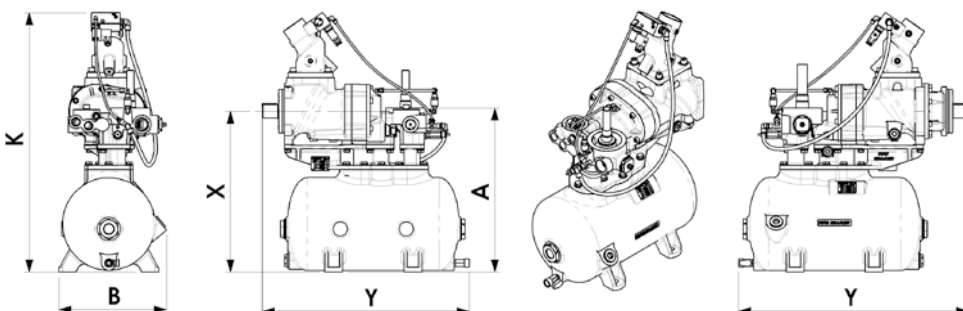
### V110/ VTDM



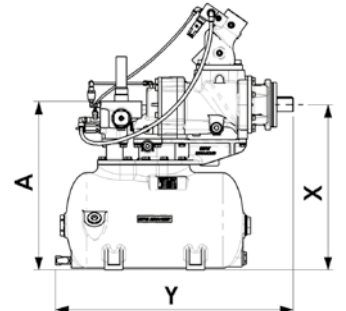
### V110G / VTDM



### Pack Smart V110



### Pack Smart V110G



# OIL- INJECTED AIR-END V130



## MAIN FEATURES:

**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR Adjustment:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative

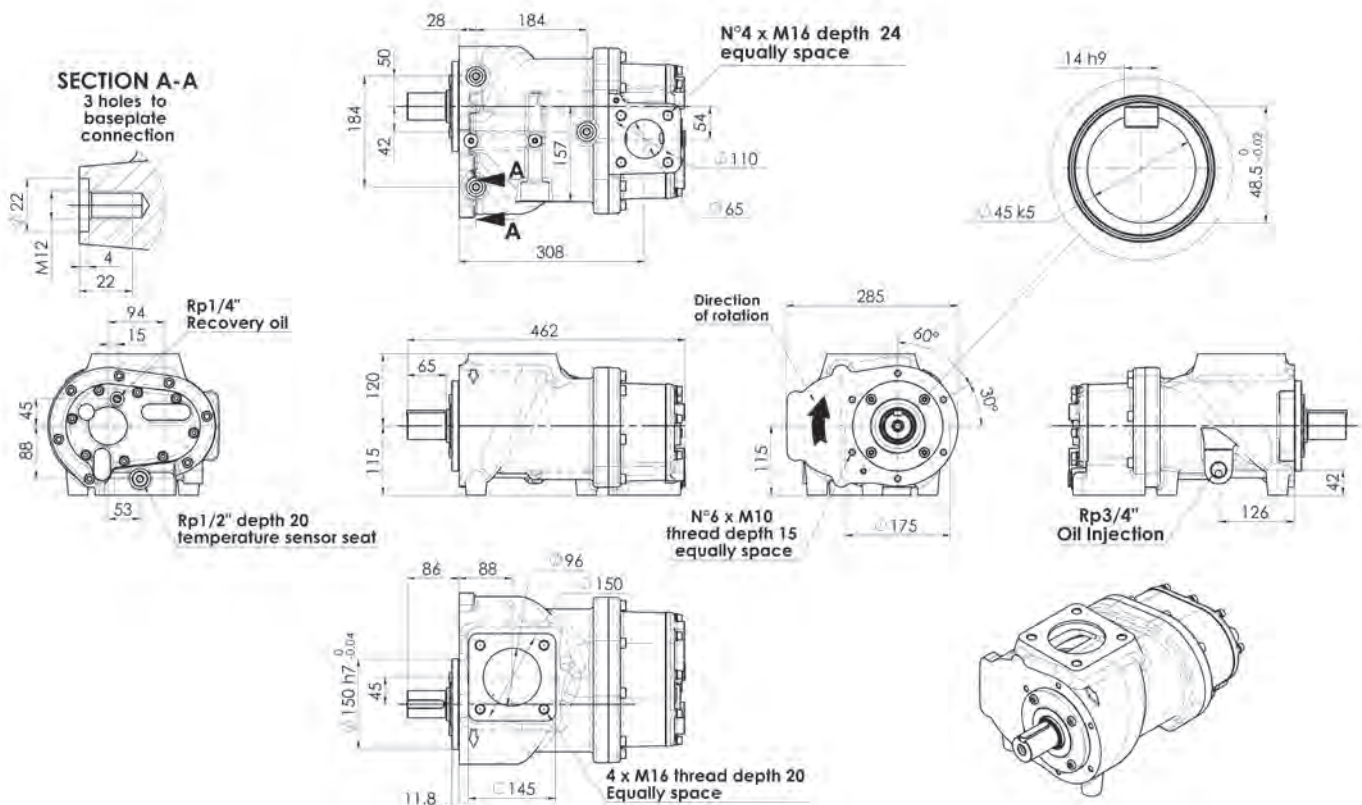
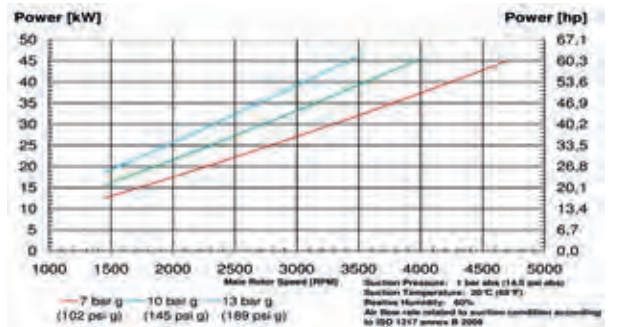
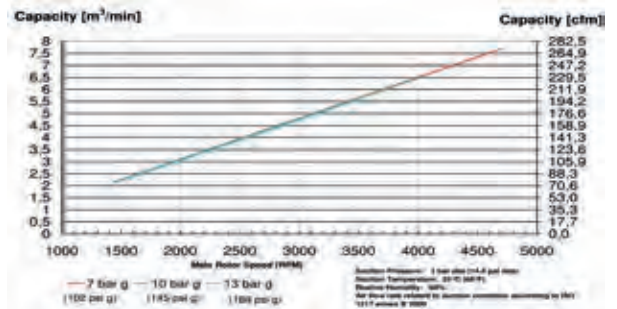
**SPECIAL APPLICATION:** PackSmart are also available for Natural Gas applications.

## MAINTENANCE:

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		V130	V130G
Outside male diameter:	mm - inch	135.5 - 5,33	
Outside female diameter:	mm - inch	106.8 - 4,2	
L/D:		1,55	
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	2,2 - 8,4	
	cfm	78 - 297	
Max Working Pressure	bar g - psi g	13 - 189	
Min Working Pressure	bar g - psi g	5 - 73	
Oil injected Quantity	L/min	57 - 80	
	gal/min (US)	15 - 21	
Max Input Power	kW	45	
	hp	60	
Max main rotor speed	rpm	5000	
Max outlet air/oil Temperature	°C - °F	105 - 221	
Weight	kg - lb	72 - 159	102 - 225

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



# INTEGRATED SYSTEM V130/ VTDM PACK SMART V130C PACK SMART V130C-G



## Integrated System V130/VTDM

## Pack Smart V130C-G

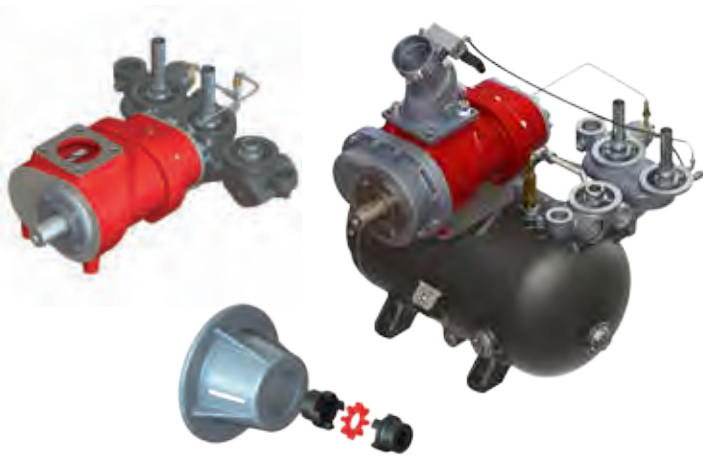
### MAIN FEATURES:

**AIR-END:** Top-quality components and cutting-edge technology ensure reliability and long-lasting performance. Available in belt and gear-driven versions. **INTAKE VALVE:** Different working systems available: E (on-off), PM (totally pneumatic), P (hybrid) and NR (only with a check valve). **COMBINATION BLOCK SYSTEM:** It includes a thermostatic and minimum pressure valve, supports for spin-on separators and oil filters, a relative wide range of nipples. Thermostatic units available at different working temperatures. **OIL RECOVERY VIEWER:** Equipped with a check valve and calibrated nozzle. **SAFETY VALVE:** CE certified, available for different working pressures. **TANK SEPARATOR:** Tested and certified for working pressures up to 15 bars. Equipped with filling plug, drainage tap and oil level viewer. Different certifications (CE, ASME, etc.) provided upon request. **FILTERS:** air, oil and separator filters supplied separately on demand. **DIRECT DRIVEN:** Integrated and Pack Smart systems supplied with relative direct-driven kit (bell housing + spider couplings).

**SPECIAL Application:** Integrated and PackSmart are also available for Natural Gas applications.

### MAINTENANCE:

The wear-and-tear of the Integrated and PackSmart systems depends on compressor applications and operating parameters. Their inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions indicated in the maintenance and trouble-shooting document.

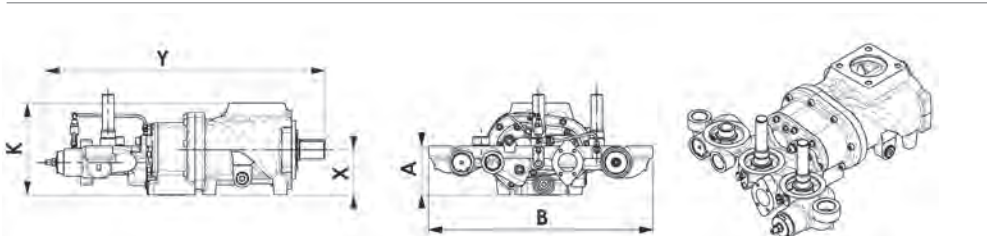


Pack Smart V130D

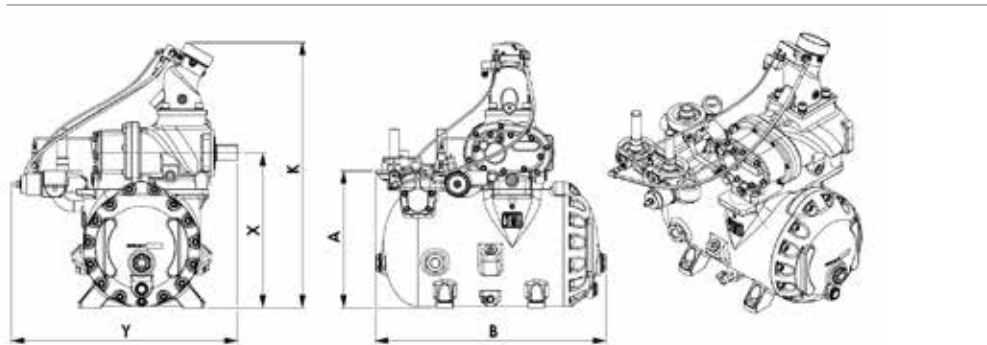
TECHNICAL DATA		For performances data see V130 technical data			
Oil Inlet/Outlet	inch	1" 1/4 Gas			
Air outlet (From Air-end)	mm - inch	Ø65 - Ø 2,56			
Air Inlet (From Tank)	inch	2" Gas			
Air outlet (From MPV)	inch	1 1/2" Gas			
Oil nipples Size	inch	3/4"-16 UNF or 3/4"GAS or 1"-12 UNF			
Air nipples Size	mm	M32x1,5 No.2 or M39x1,5 No.2			
Thermostat Temperature Setting available	°C	55-70 or 71-85 or 83-95			
	°F	131-158 or 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 FPM/FKM sealing.				
Dimensions		V130/VTDM	V130/VTDM	Pack Smart V130C	Pack Smart V130C-G
Weight	kg - lb	83 - 183	116 - 256	200 - 441	225 - 496
Y	mm - inch	705 - 27,75	807 - 31,8	714 - 29,11	817 - 32,16
X	mm - inch	115 - 4,52		490 - 19,3	
K	mm - inch	235 - 9,25		840 - 33	
B	mm - inch	578 - 22,7		730 - 28,74	
A	mm - inch	125 - 4,92		433 - 14,04	

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

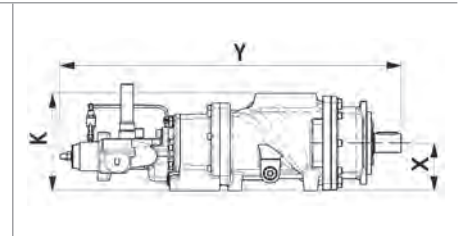
### V130/ VTDM



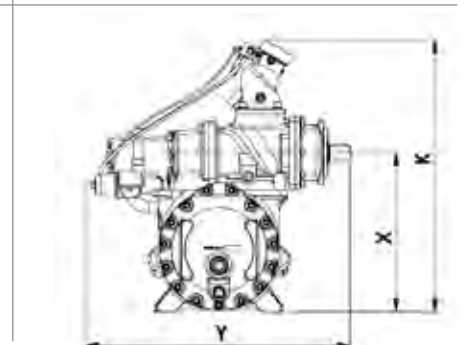
### Pack Smart V130C



### V130G / VTDM



### Pack Smart V130C-G





# OIL-INJECTED AIR-END V150



## MAIN FEATURES:

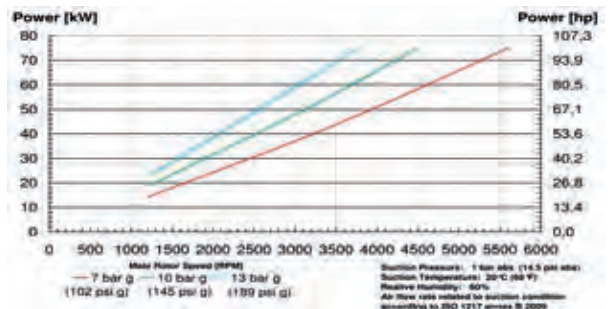
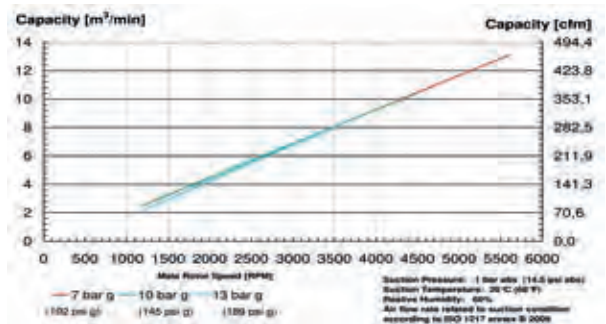
**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR Adjustment:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative **direct-driven kit (bell housing + spider couplings).**

**SPECIAL APPLICATION:** Air-end are also available for Natural Gas applications.

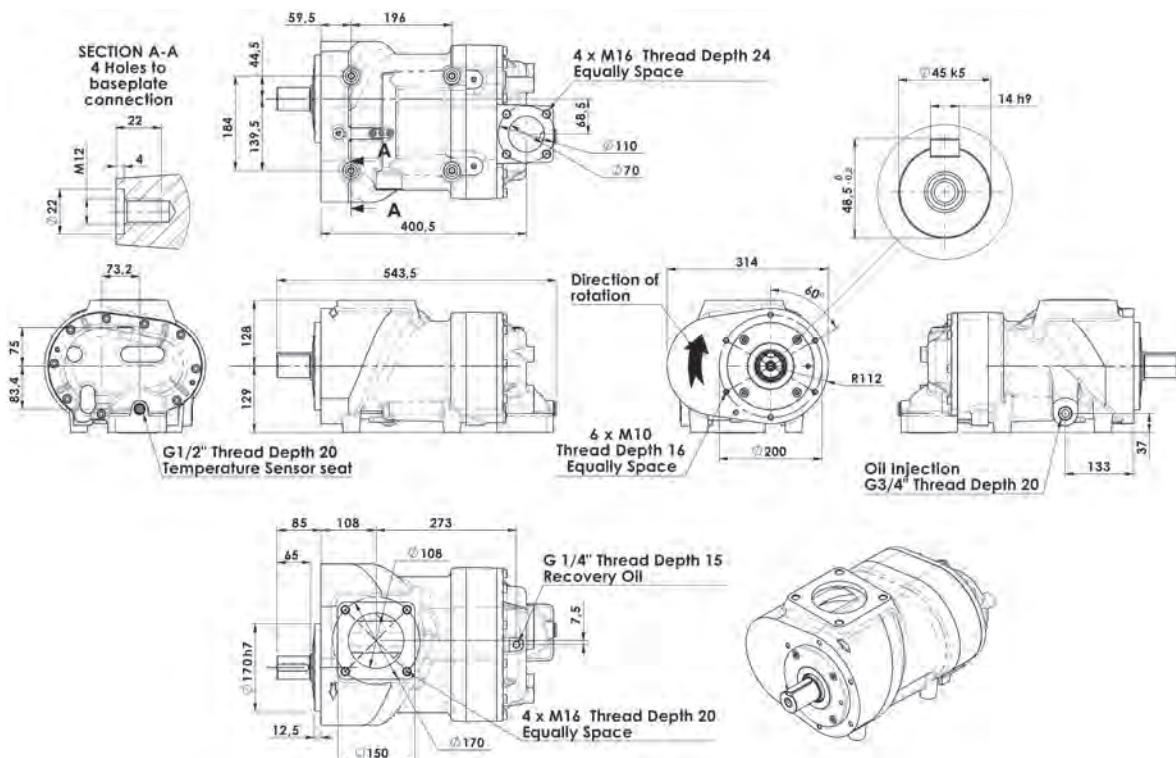
## MAINTENANCE:

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		V150	V150G
Outside male diameter:	mm - inch	150.3 - 5,93	
Outside female diameter:	mm - inch	119.2 - 4,69	
L/D:		1,55	
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	2,6 - 13	
	cfm	92 - 459	
Max Working Pressure	bar g - psi g	13 - 189	
Min Working Pressure	bar g - psi g	5 - 73	
Oil injected Quantity	L/min	75 - 105	
	gal/min (US)	20 - 28	
Max Input Power	kW	75	
	hp	100	
Max main rotor speed	rpm	5600	
Max outlet air/oil Temperature	°C - °F	105 - 221	
Weight	kg - lb	105 - 231	135 - 298



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

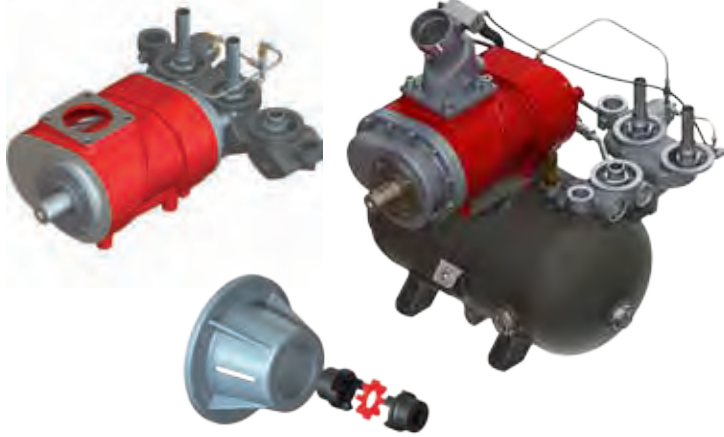


# INTEGRATED SYSTEM V150/ VTDM PACK SMART V150C PACK SMART V150C-G



Integrated System V150/VTDM

Pack Smart V150C-G



Pack Smart V150D

**MAIN FEATURES:**

**AIR-END:** Top-quality components and cutting-edge technology ensure reliability and long-lasting performance. Available in belt and gear-driven versions. **INTAKE VALVE:** Different working systems available: E (on-off), PM (totally pneumatic), P (hybrid) and NR (only with a check valve). **COMBINATION BLOCK SYSTEM:** It includes a thermostatic and minimum pressure valve, supports for spin-on separators and oil filters, a relative wide range of nipples. **Thermostatic units** available at different working temperatures. **OIL RECOVERY VIEWER:** Equipped with a check valve and calibrated nozzle. **SAFETY VALVE:** CE certified, available for different working pressures. **TANK SEPARATOR:** Tested and certified for working pressures up to 15 bars. Equipped with filling plug, drainage tap and oil level viewer. Different certifications (CE, ASME, etc.) provided upon request. **FILTERS:** air, oil and separator filters supplied separately on demand. **DIRECT DRIVEN:** Integrated and Pack Smart systems supplied with relative direct-driven kit (bell housing + spider couplings).

**SPECIAL Application:** Integrated and PackSmart are also available for Natural Gas applications.

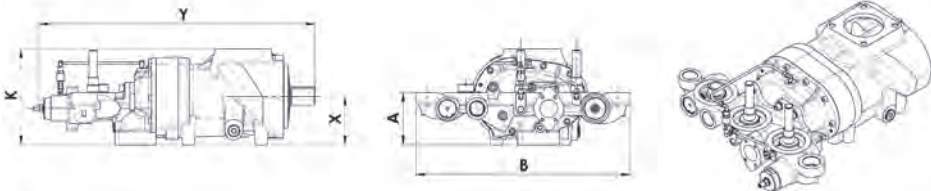
**MAINTENANCE:**

The wear-and-tear of the Integrated and PackSmart systems depends on compressor applications and operating parameters. Their inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions indicated in the maintenance and trouble-shooting document.

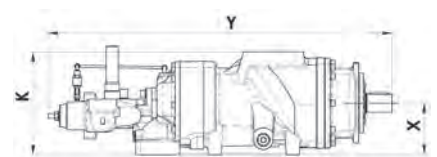
TECHNICAL DATA		For performances data see V150 technical data			
Oil Inlet/Outlet	inch	1" 1/4 Gas			
Air outlet (From Air-end)	mm - inch	Ø70 - Ø2,76			
Air Inlet (From Tank)	inch	2" Gas			
Air outlet (From MPV)	inch	1 1/2" Gas			
Oil nipples Size	inch	3/4"-16 UNF or 3/4"GAS or 1"-12 UNF			
Air nipples Size	mm	M32x1,5 No.2 or M39x1,5 No.2			
Thermostat Temperature Setting available	°C	55-70 or 71-85 or 83-95			
	°F	131-158 or 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 FPM/FKM sealing.				
Dimensions		V150/VTDM	V150G/VTDM	Pack Smart V150C	Pack Smart V150C-G
Weight	kg - lb	115 - 253	148 - 326,3	233 - 513,7	258 - 568,8
Y	mm - inch	742 - 29,2	846 - 33,3	478 - 29,4	854 - 33,6
X	mm - inch	129 - 5,1		504 - 19,84	
K	mm - inch	257 - 10,1		862 - 34	
B	mm - inch	578 - 22,75		730 - 28,7	
A	mm - inch	139 - 5,47		433 - 17	

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

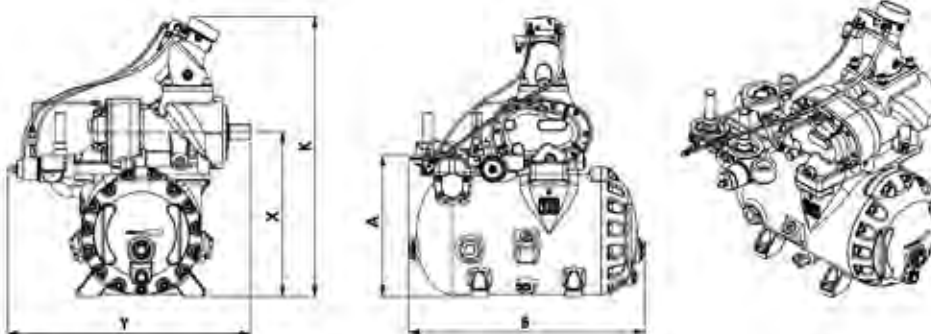
V150/ VTDM



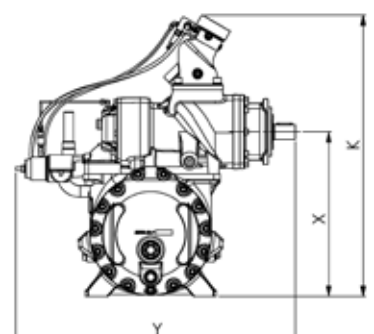
V150G / VTDM



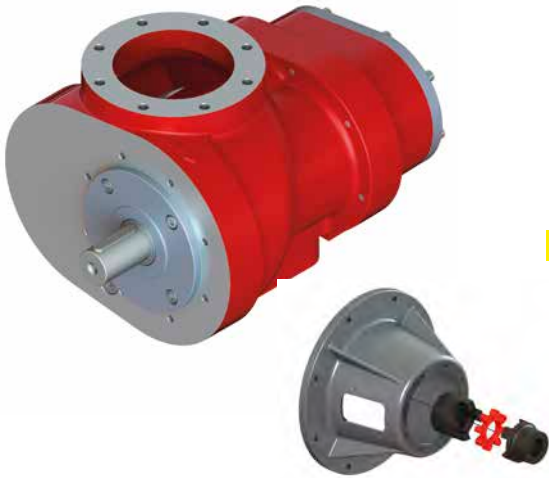
Pack Smart V150C



Pack Smart V150C-G



# OIL- INJECTED AIR-END V180



### MAIN FEATURES:

**ROTOR PROFILE:** SISTEMA has engineered its own rotor profile in order to reach maximum performance even in the most extreme conditions and guarantee efficiency and duration. This means higher air-flow rate for less energy consumption. **ROTOR Adjustment:** Threaded nuts are used to adjust rotors for a very fast and reliable maintenance. **BEARINGS:** Radial and thrust bearings have been engineered for generous reserve. Only first-quality bearings are used. **SHAFT SEAL:** An excellent reliability of shaft seal, thanks to the use of first-rate quality materials leads to no oil leakages. **VERSIONS available:** belt and gear-driven. **DIRECT DRIVEN:** Air-ends can be supplied with relative **direct-driven kit (bell housing + spider couplings).**

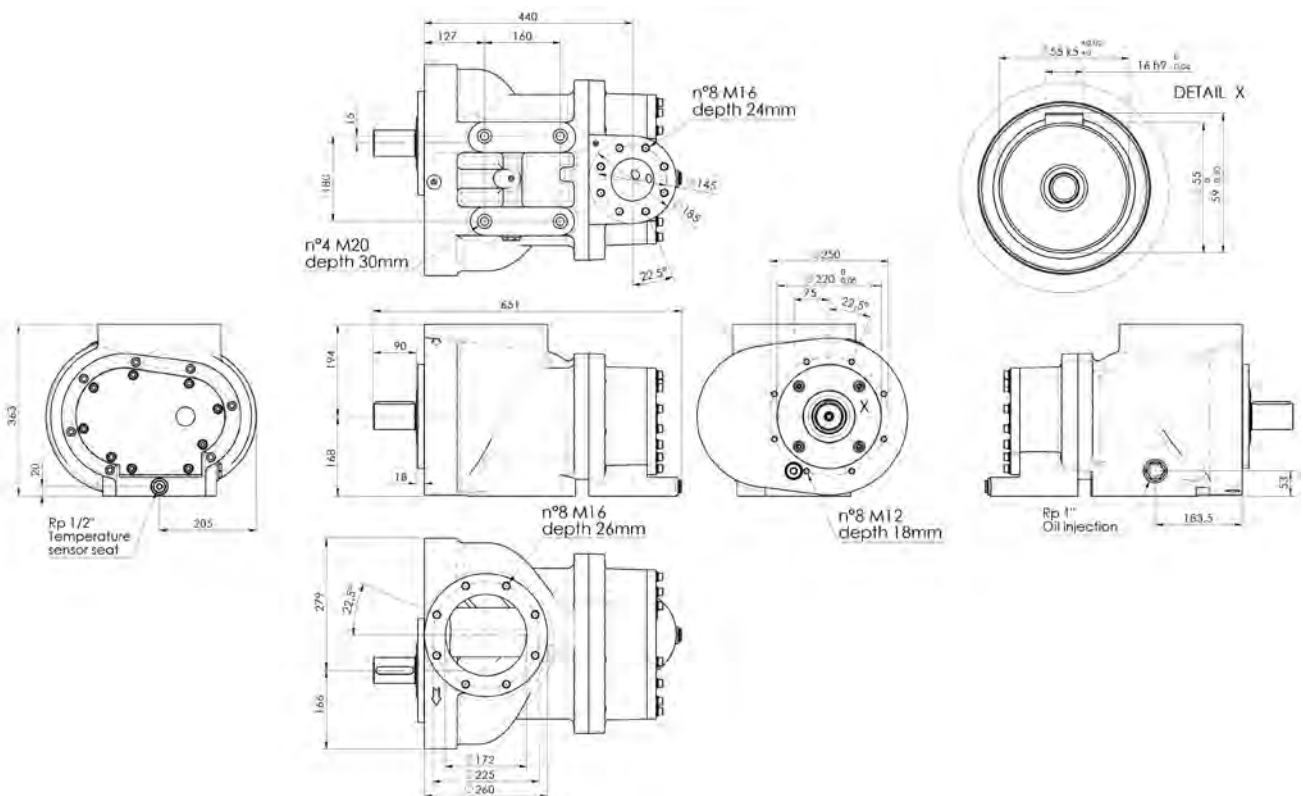
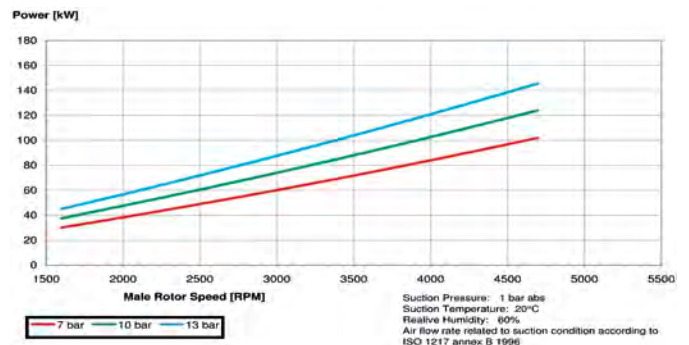
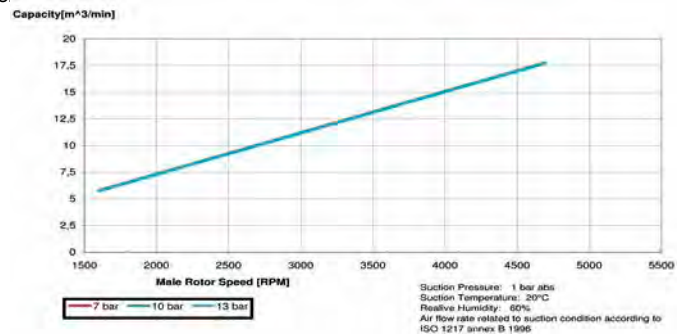
**SPECIAL APPLICATION:** Air-end are also available for Natural Gas applications.

### MAINTENANCE:

The wear-and-tear of air-end components depends on compressor applications and operating parameters. Air-end inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		V180	V180G
Outside male diameter:	mm - inch	179 - 7,05	
Outside female diameter:	mm - inch	147 - 5,79	
L/D:		1,55	
Air Capacity (ISO 1217 ANNEX B 2009)	m <sup>3</sup> /min	7,5 - 17	
	cfm	266 - 603	
Max Working Pressure	bar g - psi g	13 - 189	
Min Working Pressure	bar g - psi g	5 - 73	
Oil injected Quantity	L/min	65 - 140	
	gal/min (US)	17 - 37	
Max Input Power	kW	110	
	hp	147	
Max main rotor speed	rpm	4500	
Max outlet air/oil Temperature	°C - °F	105 - 221	
Weight	kg - lb	230 - 508	280 - 617,3

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



# PRACTIKO UD SERIES



### MAIN FEATURES:

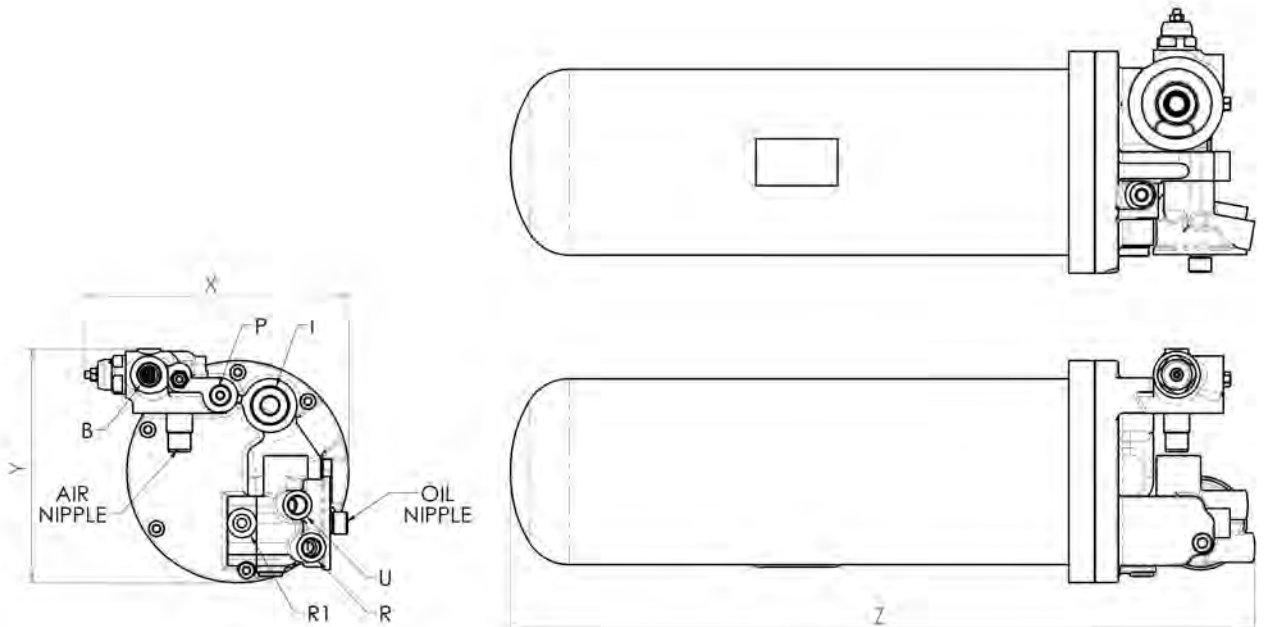
A Practiko UD is made up of a cover flange assembled on the horizontal separator tank. The flange system includes supports for spin-on separators and oil filters, a thermostatic valve, a minimum pressure valve, an oil level viewer, oil-to-be-filled-up ports and a drainage tap. A Practiko UD has to be connected to the outlet port of the air-end housing and to the inlet/outlet ports of the cooler. A wide range of nipples at different sizes are available as well as thermostatic units at various temperatures.

### MAINTENANCE:

The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		PRACTIKO 10 UD	PRACTIKO 36 UD
Air Flow rate	m <sup>3</sup> /min - cfm	1 - 35	4 - 140
Oil Flow rate	Lt/min - gal/min(US)	40 - 10,6	70 - 18,5
Oil Inlet/Outlet ( U, R, R1 )		G 3/8"	G 3/4"
Air/Oil Inlet ( I )		G 1"	G 1-1/4"
Air Outlet ( B )		G 1/2"	G 1-1/4"
Safety Valve ( P )		G 1/4"	G 1/2"
Oil Nipple Size		3/4"-16 UNF 3/4" Gas	3/4"-16 UNF 3/4" Gas 1"-12 UNF
Separator Nipple Size		M22x1,5	M39x1.5 M32x1,5
Thermostat Temperature Setting available	°C - °F	55/70 - 131/158	55/70 - 131/158
	°C - °F	71/85 - 160/185	71/85 - 160/185
	°C - °F	83/95 - 181/203	83/95 - 181/203
<b>DIMENSIONS</b>			
X	mm - inch	229 - 9,02	311 - 12,24
Y	mm - inch	200 - 7,87	216 - 8,5
Z	mm - inch	638 - 25,11	698 - 27,5
Weight	Kg - lb	11,5 - 25,3	23 - 50,7
Materials	Unit is made in anodized aluminium alloy, carbon steel and cast iron. Inside parts in aluminium alloy, steel, brass and FPM/FKM sealing.		

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.



# INTAKE VALVE RH - RHC SERIES



## MAIN FEATURES:

Assembled on the inlet port of an air-end housing, the intake valves of the **RH & RHC Series** are Normally Open (**NO**) and only with a vertical design. They include a poppet operated by an internal piston controlling the air flow-rate and accordingly, the working pressure, a check valve preventing backflow of oil at a compressor shutdown and a blow-down valve setting up the discharge time upon request. A wide range of versions of **RH & RHC** intake valves is available: **E** (ON-OFF working system for stationary machines), **PM** (totally pneumatic working system for portable machines), **P** (hybrid working system for stationary and portable machines), **NR** (only with a check valve). They are available at different voltages, if requested, as well as with connection flanges and certifications. These valves have to be connected pneumatically to the separator tank and, where requested, electrically (in case of E & P version) to the pressure switch.

The RH & RHC Series are also available for Natural Gas and Water Lubricated applications.

## MAINTENANCE:

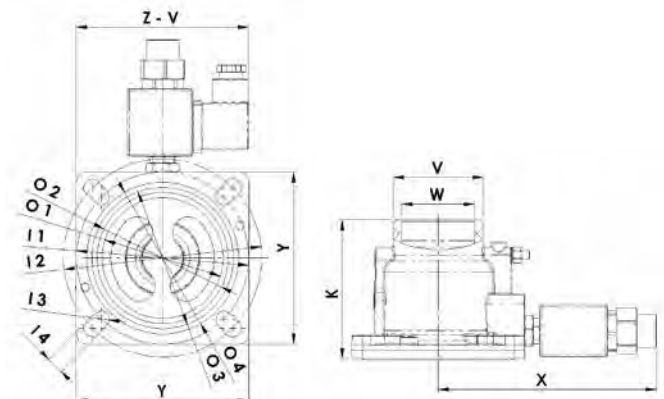
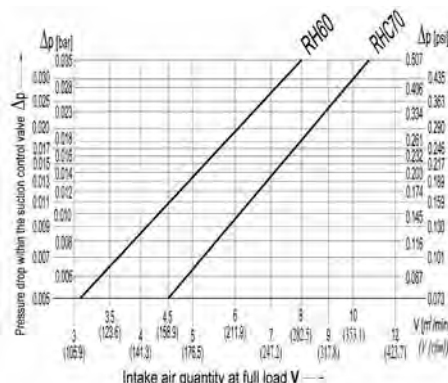
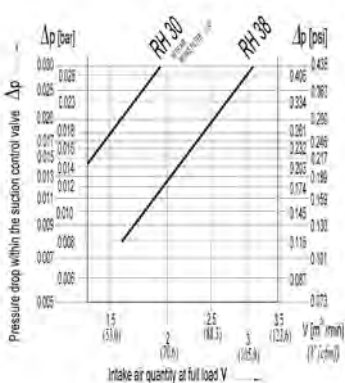
The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		RH30		RH38	RH60	RHC70
Air flow rate	m3/min-cfm	See the diagram				
Inlet size	mm - inch	Ø 30.5 - 1,2	Ø 20 - 0,79			Ø 38.5 - 1,51   Ø 62 - 2,44   Ø 70 - 2,75
Working pressure	bar - psi	up to 16 - up to 232				
Solenoid-valve voltage		24V or 110V or 230V				
Materials		Unit is made in aluminium alloy. Inside parts in aluminium alloy, stainless steel, brass, viton sealings and PTFE				

## DIMENSIONS

X	Circular base		Rectangular base		125 - 4,92	126 - 4,96	133 - 5,23	
	mm - inch							
Y	mm - inch	Ø 84 - 3,3	80x73 - 3,15x2,87		100 - 3,94	135 - 5,31	150 - 5,9	
*Z_V	mm - inch	132 - 5,2	155 - 6,1		100 - 3,94	194 - 7,63	150 - 5,9	
K	mm - inch	64 - 2,52		80,5 - 3,17		124,5 - 4,9	138,5 - 5,45	
W	mm - inch	Rp 1"	Ø 20 - 0,78	Ø 20 - 0,78	Rp 1"	Ø 20 - 0,78	Ø 20 - 0,78	
V	mm - inch	Ø 40 - 1,57	Ø 30 - 1,18	Rp 3/4"	Ø 40 - 1,57	Ø 30 - 1,18	Rp 3/4"	
11	mm - inch	Ø 73 - 2,87		62x55 - 2,44x2,16		Ø 100 - 3,93	Ø 129 - 5,07	Ø 143 - 5,63
12	mm - inch	-		-		Ø 115 - 4,52	Ø 150 - 5,9	Ø 170 - 6,7
13	mm - inch	Ø 7,2 - 0,28		Ø 8,5 - 0,33		Ø 9 - 0,35	Ø 12,5 - 0,49	Ø 16,5 - 0,64
14	mm - inch	-		-		Ø 10,2 - 0,4	Ø 16,5 - 0,65	Ø 16,5 - 0,64
O1	mm - inch	Ø 59,5 - 2,34		-		Ø 70 - 2,75	Ø 95 - 3,74	Ø 110 - 4,33
O2	mm - inch	Ø 63,5 - 2,5		-		Ø 76 - 3	Ø 101 - 3,97	Ø 118 - 4,64
O3	mm - inch	-		-		Ø 82 - 3,22	Ø 107 - 4,2	-
O4	mm - inch	-		-		Ø 88 - 3,46	Ø 113 - 4,45	-
Weight	kg - lb	0,6 - 1,32		-		0,8 - 1,76	1,5 - 3,3	2 - 4,4

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.



# INTAKE VALVE C SERIES



## MAIN FEATURES:

Assembled on the inlet port of an air-end housing, the intake valves of the **C Series** are Normally Open (**NO**) and only with a horizontal design. They include a poppet operated by an internal piston controlling the air flow-rate and accordingly, the working pressure, a check valve preventing backflow of oil at a compressor shutdown and a blow-down valve setting up the discharge time upon request. A wide range of versions of **C** intake valves is available: **E** (*ON-OFF working system for stationary machines*), **PM** (*totally pneumatic working system for portable machines*), **P** (*hybrid working system for stationary and portable machines*), **NR** (*only with a check valve*). They are available at different voltages, if requested, as well as with connection flanges and certifications. These valves have to be connected pneumatically to the separator tank and, where requested, electrically (*in case of E & P version*) to the pressure switch.

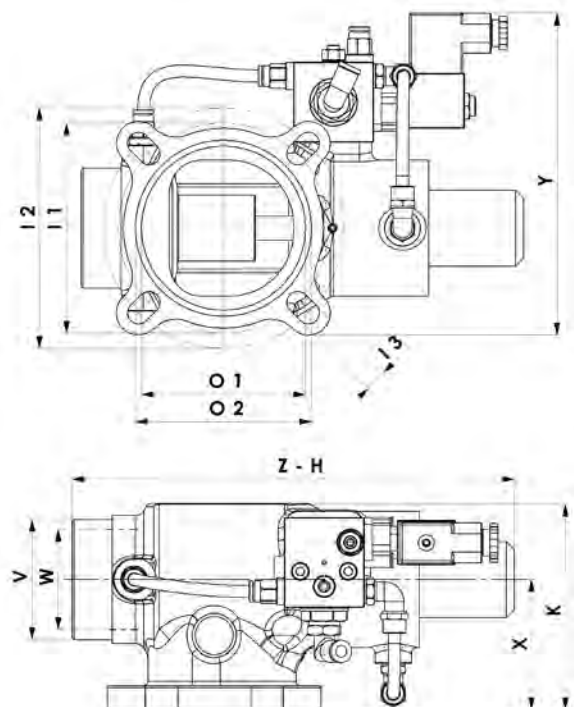
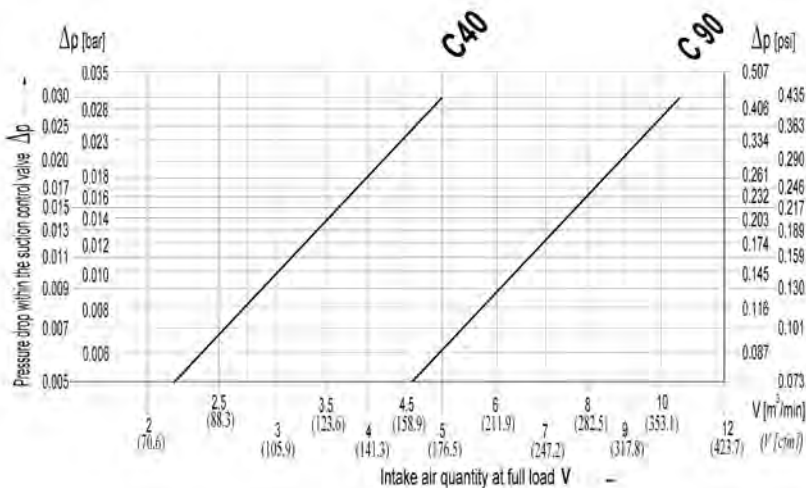
The C serie is also available for Natural Gas and Water Lubricated applications.

## MAINTENANCE:

The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		C40	C90
Air flow rate		See the diagram	
Inlet size	mm - inch	Ø 50 - 1,96	Ø 70 - 2,75
Working pressure	bar - psi	up to 16 - up to 232	
Solenoid-valve voltage		24V or 110V or 230V	
Materials	Unit is made in aluminium alloy. Inside parts in aluminium alloy, stainless steel, brass, FPM/FKM sealings and PTFE		
DIMENSIONS			
Y	mm - inch	161 - 6,33	187 - 7,36
Z_H	mm - inch	221 - 8,7	257 - 10,11
K 1	mm - inch	103 - 4,05	132 - 5,19
V	mm - inch	Ø 60 - 2,36	Ø 80 - 3,15
W	mm - inch	Ø 52 - 2,04	Ø 72 - 2,83
I1	mm - inch	Ø 105 - 4.13	Ø 143 - 5,63
I2	mm - inch	Ø 120 - 4.72	Ø 170 - 6,69
I3	mm - inch	11 - 0,43	16.5 - 0,65
O1	mm - inch	Ø 82 - 3.22	Ø 113 - 4,45
O2	mm - inch	Ø 88 - 3.46	Ø 119 - 4,69
X	mm - inch	65 - 2,55	82 - 3,23
Weight	Kg - lb	2 - 4,4	3,2 - 7,05

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.



# INTAKE VALVE RB - RBC SERIES



## MAIN FEATURES:

Assembled on the inlet port of an air-end housing, the intake valves of the RB & RBC series are Normally Closed. They include a butterfly operated by a servo-cylinder controlling the air flow-rate and accordingly, the working pressure, a check valve preventing backflow of oil at a compressor shutdown and a blow-down valve setting up the discharge time upon request.

A wide range of versions of RB & RBC intake valves is available: **E** (ON-OFF working system for stationary machines), **PM** (totally pneumatic working system for portable machines), **P** (hybrid working system for stationary and portable machines), **NR** (only with a check valve).

They are available at different voltages, if requested, as well as with connection flanges and certifications.

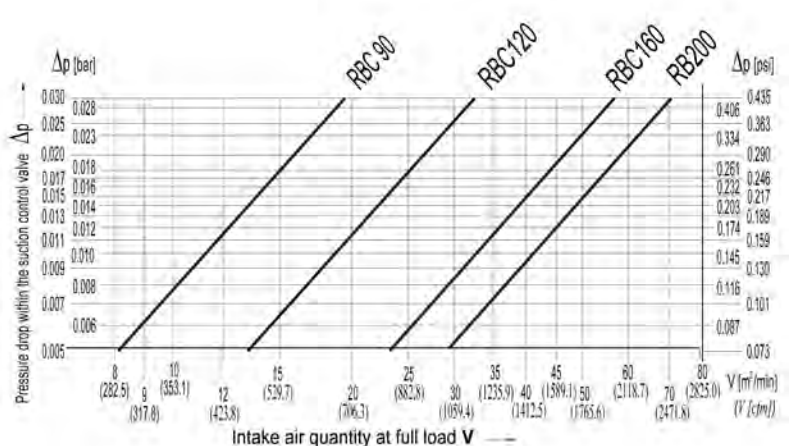
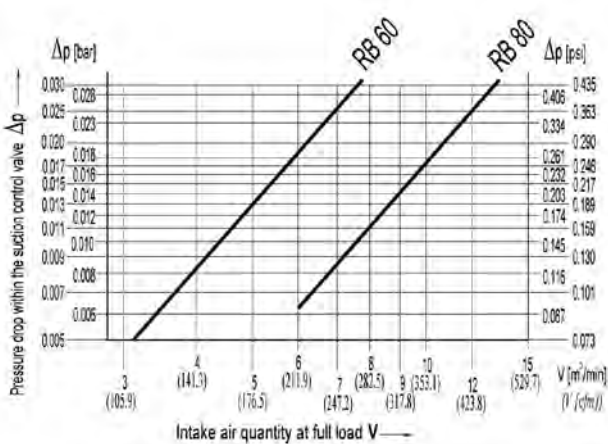
These valves have to be connected pneumatically to the separator tank and electrically (in case of E & P version) to the pressure switch.

The RB & RBC Series are also available for Natural Gas and Water Lubricated applications.

## MAINTENANCE:

The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		RB60	RB80	RBC90	RBC120	RBC160	RB200
Air flow rate	m <sup>3</sup> /min - cfm	See diagram					
Inlet size	mm - inch	Ø60 - Ø2,36	Ø80 - Ø3,15	Ø90 - Ø3,54	Ø120 - Ø4,72	Ø160 - Ø5,5	2xØ140 - 2xØ5,5
Working pressure		up to 16 bar - up to 232 Psi					
Solenoid valve voltage		24V or 110V or 230V					
Materials		Housing in Aluminium alloy. Internal parts in Aluminium alloy anodized, Viton sealings, and Brass.					
Weight	Kg - lb	2,2 - 4,85	3 - 6,6	5,8 - 12,78	9,8 - 21,6	13,3 - 29,32	25,3 - 55,77



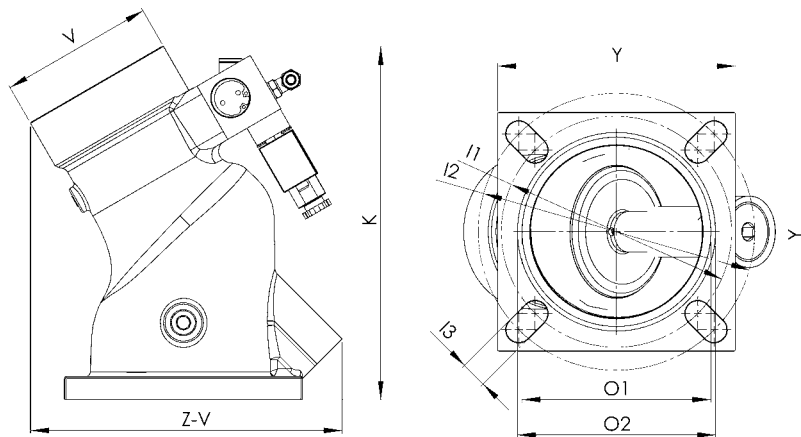
# INTAKE VALVE RB - RBC SERIES



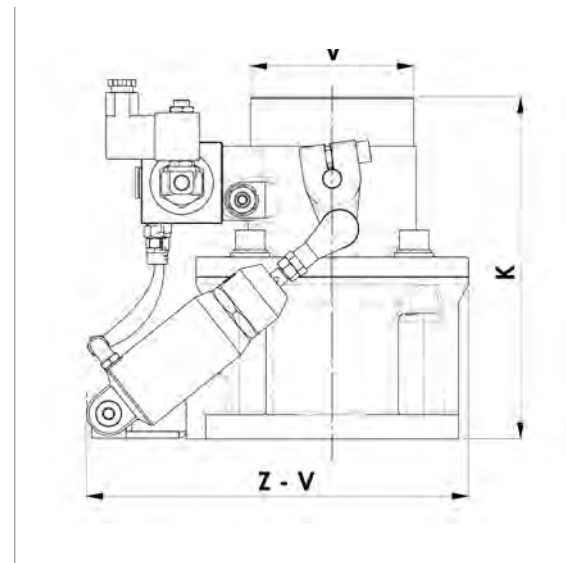
DIMENSION		RB60R	RB60T	RB60GT	RB80	RBC90	RBC120		RBC160	RB200
Bolt holes	Nr.	4	4	4	4	4	8		12	12
Y	mm-inch	125 - 4,92	135 - 5,3	135 - 5,3	155 - 6,1	155 - 6,1	Ø255 - Ø10,04		Ø330	Ø460 - Ø18,1
Z-V	mm-inch	177 - 6,96	177 - 6,96	177 - 6,96	203 - 8	225 - 8,85	318 - 12,51		350	500 - 19,68
K	mm-inch	197 - 7,75	197 - 7,75	197 - 7,75	230 - 9,05	210 - 8,26	308 - 12,13		332	350 - 13,77
V	mm-inch	Ø70 - Ø2,75	Ø70 - Ø2,75	Ø70 - Ø2,75	Ø100 - Ø3,93	Ø100 - Ø3,93	Ø150 - Ø5,91		Ø201	2xØ150 - 2xØ5,9
I1	mm-inch	Ø110 - Ø4,33	Ø129 - Ø5,07	-	Ø150 - Ø5,9	Ø160 - Ø6,3	Ø225 - Ø8,86	Ø240 - Ø9,44	Ø295	Ø410 - Ø16,14
I2	mm-inch	Ø135 - Ø5,3	Ø150 - Ø5,9	Ø150 - Ø5,9	Ø180 - Ø7,1	Ø180 - Ø7,1	-		-	-
I3	mm-inch	Ø13 - Ø0,51	Ø13 - Ø0,51	Ø17 - Ø0,67	Ø17 - Ø0,67	Ø17 - Ø0,67	Ø17 - Ø0,67	Ø21 - Ø0,82	Ø21 - Ø0,82	Ø25 - Ø0,98
O1	mm-inch	Ø86 - Ø3,38	Ø107 - Ø4,21	Ø107 - Ø4,21	Ø123 - Ø4,84	Ø127 - Ø5	Ø195 - Ø7,68		Ø248 - Ø9,76	Ø329,5 - Ø12,97
O2	mm-inch	Ø92 - Ø3,62	Ø113 - Ø4,45	Ø113 - Ø4,45	Ø129 - Ø5,07	Ø133 - Ø5,23	Ø203 - Ø8		Ø259 - Ø10,2	Ø341,5 - Ø13,44

**ATTENTION:** The drawing below is not suitable for all models. Please log on to our website for specific drawings.

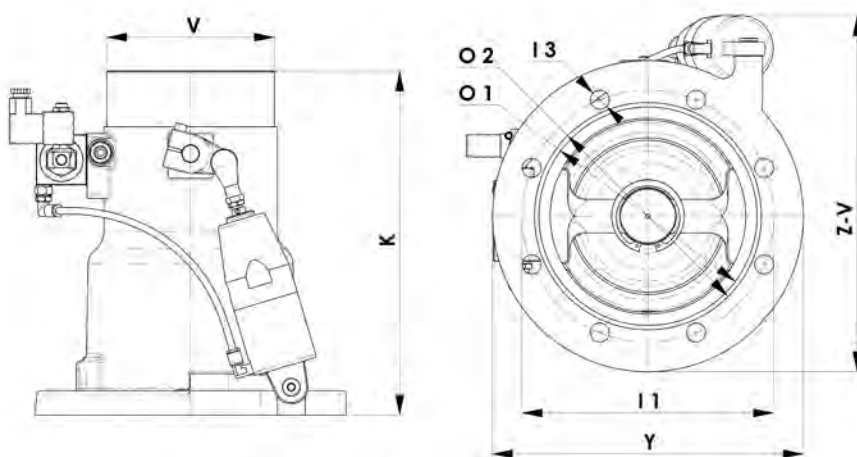
## RB60 - RB80



## RBC90



## RBC120 - RBC160 - RB200





# COMBINATION BLOCK VTDM SERIES



## MAIN FEATURES:

The VTDM Combination Block system includes a thermostatic valve, a minimum pressure valve, supports for spin-on separators, oil filters and relative nipples, as well as extra ports to monitor pressure in the separator tank and connections to the intake valve and scavenge line. Combination blocks can be threaded or flanged on a separator tank or assembled separately. Some VTDM are also available in 'upside-down' version (with oil and air filters at the bottom position). Thermostatic units are available at different working temperatures. The oil and separator nipples are available with different sizes upon request. Filters can be supplied separately on demand. **The VTDM Combination Block are also available for Natural Gas and Water Lubricated applications.**

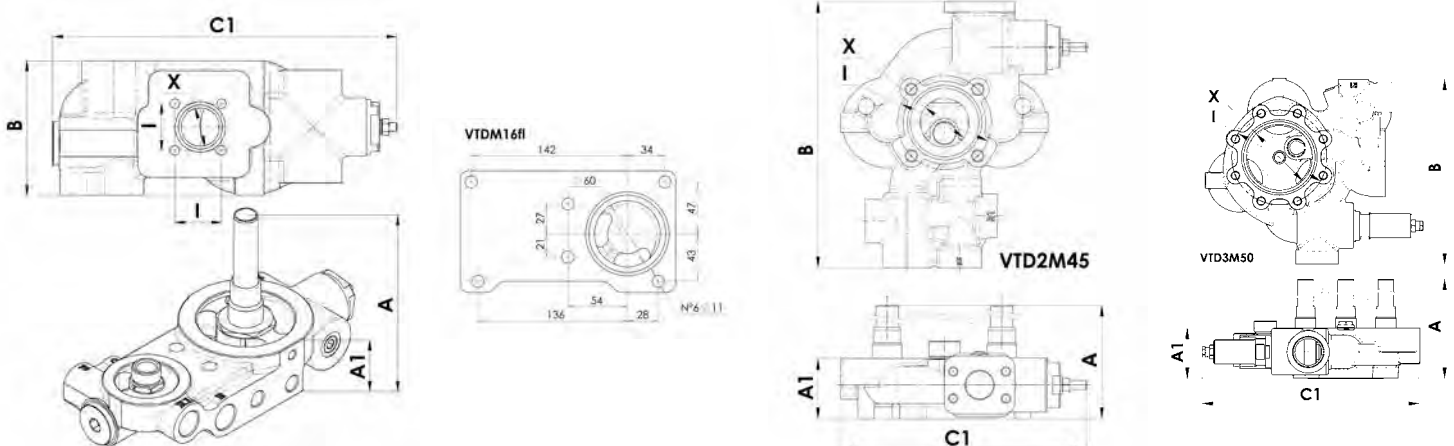
## MAINTENANCE:

The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble shooting document.

## TECHNICAL DATA

THREADED VERSION		VTDM15	VTDM16 Flanged version only	VTDM29	VTDM39S	VTDM39	VTD2M45	VTD3M50 Flanged version only
Air Flow rate	m <sup>3</sup> /min - cfm	1,5 - 53	1,5 - 53	2 - 70,6	3 - 106	5,5 - 194,2	13 - 459	19,5 - 670,9
Oil Flow rate	Lt/min - gal/min	45 - 11,9	45 - 11,9	45 - 11,9	80 - 21,15	80 - 21,15	180 - 47,5	180 - 47,5
Oil Inlet/Outlet		Rp 1/2"	Rp 3/8"	Rp 1/2"	Rp 3/4"		Rp 1 1/4"	Rp 1 1/4"
Air Inlet		Rp 1"	Ø60 - 2,36	Rp 1"	Rp 1 1/4"		Ø 65 - 2,56	Ø 125 - 4,92
Air outlet		Rp 1/2"	Rp 1/2"	Rp 1"	Rp 1"	Rp 1 1/4"	Ø 37 - 1,45	Rp 2"
Oil nipple Size		3/4"-16 UNF	3/4"-16 UNF	3/4"-16 UNF	G 3/4"		G 1 1/4"	G 1 1/4"
		G 3/4"	G 3/4"	G 3/4"	1"-12 UNF		1 1/2" -16 UNF	1 1/2"-16 UNF
Separator Nipple Size		1"-12 UNF	1"-12 UNF	1"-12 UNF				
		M 22x1,5	M 22x1,5	M 22x1,5	M 32x1,5		M 32x1,5 No.2	M 32x1,5 No.3
		M 24x1,5	M 24x1,5	M 24x1,5	M 39x1,5		M 39x1,5 No.2	M 39x1,5 No.3
Thermostat Temperature	°C - °F	Three thermostat temperatures available: 55-70 or 71-85 or 83-95; 131-158 or 159,8-185 or 181,4-203						
Materials		Housing in anodized Aluminium alloy. Inside parts in Brass, stainless steel and Viton seaqlings.						
A1	mm - inch	60 - 2,36	57 - 2,24	60 - 2,36	61 - 2,4		80 - 3,15	95 - 3,74
A	mm - inch	152 - 3,15	230 - 9	232 - 9,13	192 - 7,56		213 - 8,38	230 - 9
B	mm - inch	80 - 3,15	138 - 5,43	87 - 3,42	120 - 4,72		354 - 13,93	353 - 13,9
C1	mm - inch	241 - 9,49	196 - 7,7	263 - 10,35	294 - 11,57	315 - 12,4	325 - 12,8	415 - 16,33
THREADED VERSION		VTDM15	VTDM16	VTDM29	VTDM39S	VTDM39	VTD2M45	VTD3M50
X	mm - inch	Ø 29 - 1,14	Ø 60 - 2,36	Ø 28 - 1,1	Ø 35 - 1,37		Ø 65 - 2,56	Ø 125 - 4,92
I	mm - inch	42,4 - 1,67	See below	40 - 1,57	42,4 - 1,67		Ø 125 - 4,92	Ø 180 - 7,08
Holes	mm - inch	N°4 x Ø 8,5 N°4 x Ø 0,33	No. 6 x Ø 11 N°6 x Ø 0,43	No. 4 x Ø 8,5 N° 4 x Ø 0,33	No. 4 x Ø 8,5 N°4 x Ø 0,33		N°4 x Ø 12,5 N°4 x Ø 0,49	No. 8 x M16
Weight	kg - lb	2,6 - 5,73	2,6 - 5,73	2,4 - 5,29	3,9 - 8,6	4,2 - 9,26	7,5 - 16,53	11,5 - 25,35

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.



# COMBINATION BLOCK VDM SERIES



## MAIN FEATURES:

The VDM Combination Block system includes a minimum pressure valve, supports for spin-on separators and relative nipples, as well as extra ports to monitor pressure in the separator tank and connections to the intake valve and scavenge line. Combination blocks can be threaded or flanged on a separator tank or assembled separately. Some VDM are also available in 'upside-down' version (with oil and air filters at the bottom position). The separator nipples are available with different sizes upon request. Filters can be supplied separately on demand.

The VDM Combination Block is also available for Natural Gas and Water Lubricated applications.

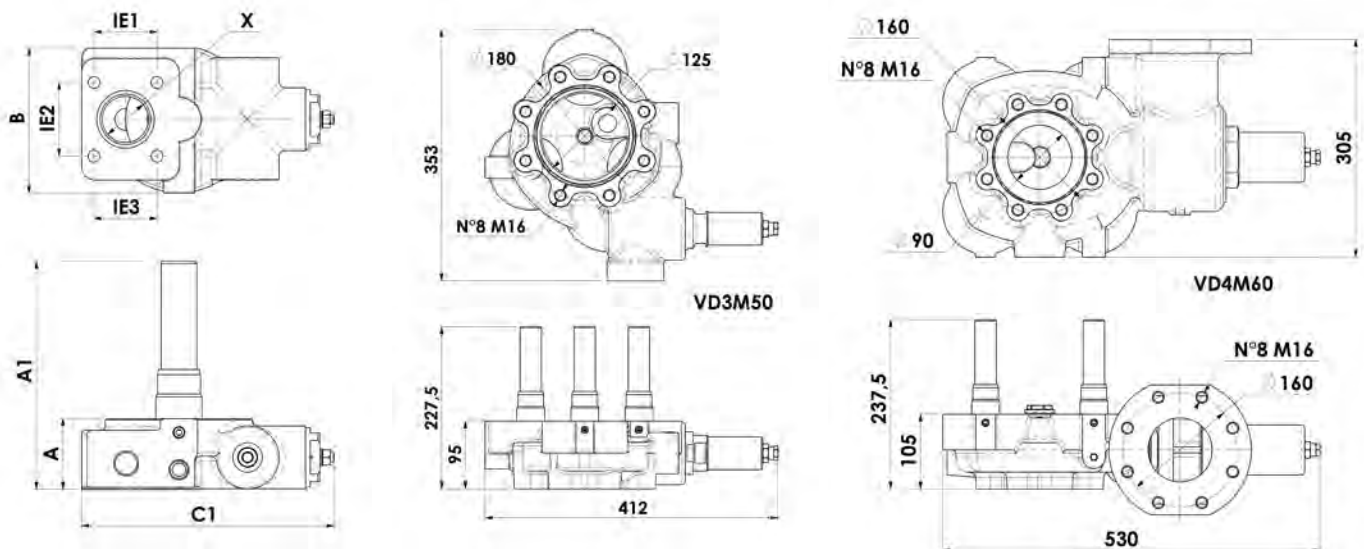
## MAINTENANCE:

The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble shooting document.

## TECHNICAL DATA

Threaded Version		VDM15	VDM28	VDM39S	VDM39	VD2M40	VD3M50	VD4M60
Air Flow rate	m <sup>3</sup> /min-cfm	1,5 - 53	2 - 70,6	3 - 106	5,5 - 194,2	13 - 459	19,5 - 688,6	26 - 918,1
Air Inlet size		Rp1"	Rp1"	Rp 1-1/4"	Rp 1-1/4"	Rp 1-1/2"	Ø125 - Ø4,92	Ø90 - Ø3,54
Air Outlet size		Rp1/2"	Rp1"	Rp1"	Rp 1-1/4"	Ø37 - Ø1,45	2"	Ø90 - Ø3,54
Separator		M 22x1,5	M 22x1,5	M 32x1,5	M 32x1,5	M 32x1,5	M 32x1,5	M 32x1,5
Nipple Size		M 24x1,5	M 24x1,5	M 39x1,5	M 39x1,5	M 39x1,5	M 39x1,5	M 39x1,5
Materials	Housing in anodized Aluminium alloy. Inside parts in Brass, stainless steel and Viton sealings.							
A	mm-inch	58 - 2,28	58 - 2,28	60 - 2,36	60 - 2,36	73,5 - 2,9	See below	See below
A1	mm-inch	152 - 5,98	232 - 9,13	191 - 7,52	191 - 7,52	204 - 8		
B	mm-inch	80 - 3,15	80 - 3,15	120 - 4,72	120 - 4,72	221 - 12,5		
C1	mm-inch	126 - 4,96	194 - 7,63	194 - 7,63	217 - 8,54	317 - 12,5		
Flanged Version		VDM15	VDM28	VDM39S	VDM39	VD2M40	VD3M50	VD4M60
X	mm-inch	30,5 - 1,2	28 - 1,1	35 - 1,37	35 - 1,37	45 - 1,77	See below	See below
IE1	mm-inch	31,5 - 1,24	42,4 - 1,67	42,4 - 1,67	53 - 2,09	208 - 8,18		
IE2	mm-inch	39 - 1,54	42,4 - 1,67	42,4 - 1,67	62 - 2,44	52,5 - 2,07		
IE3	mm-inch	31,5 - 1,24	42,4 - 1,67	42,4 - 1,67	42,4 - 1,67	116 - 4,56		
Holes	mm	Nr. 4 x Ø8,5	Nr. 4 x Ø8,5	Nr. 4 x Ø8,5	Nr. 4 x Ø10	Nr. 4 x Ø12,5		
	inch	Nr. 4 x Ø0,33	Nr. 4 x Ø0,33	Nr. 4 x Ø0,33	Nr. 4 x Ø0,39	Nr. 4 x Ø0,49		
Weight	kg-lb	2,6 - 5,73	3,1 - 6,83	3,9 - 8,6	4,2 - 9,25	4,6 - 10,14	8,9 - 19,6	16,2 - 35,7

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.



# MINIMUM PRESSURE VALVE



## MAIN FEATURES:

Usually installed on the discharge port of the separator tank, minimum pressure valves are available in a threaded or flanged version. They include a poppet to maintain minimum pressure in the separator tank when the compressor is started and a check valve to prevent air backflow from the line. The **Minimum pressure valve series is also available for Natural Gas and Water Lubricated applications.**

## MAINTENANCE:

The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

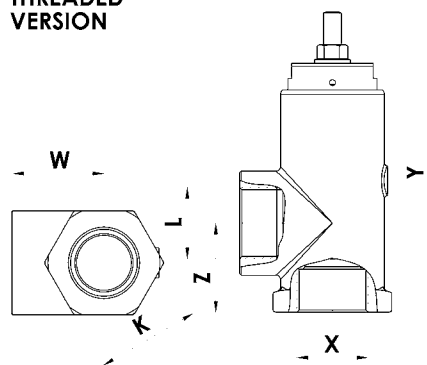
TECHNICAL DATA		G10 1/2"	G10 3/4"	G26	G36	G46	G50T	G55R	G60R
Air Flow rate	m <sup>3</sup> /min - cfm	1 - 35,31	1,5 - 52,97	3,5 - 123,58	6 - 211,86	12 - 423,72	22 - 776,82	40 - 1412,4	60 - 2118,6
Pressure Drop	bar - psi	From 0,03 to 0,2 - From 0,435 to 2,9							
Materials		Housing in Aluminium alloy anodized. Internal parts in Stainless Steel, FPM/FKM sealings and Brass.							
Set opening pressure	bar - psi	From 3 to 5,5 bar. Standard settings : 4,5 ± 0,25 - From 43,5 to 79,8 psi. Standard settings : 65,25 ± 3,6							

THREADED VERSION		G10 1/2"	G10 3/4"	G26	G36	G46	G50T	Flanged version only	Flanged version only
X		G 1/2"	G 3/4"	G 1"	G 1-1/4"	G 1-1/2"	Rp 2"		-
Y	mm - inch	86 - 3,38	86 - 3,38	106 - 4,17	132 - 5,2	196 - 7,7	276 - 10,86	-	-
Z	mm - inch	32 - 1,26	32 - 1,26	50 - 1,97	61 - 2,4	59 - 2,32	67,5 - 2,65	-	-
L	mm - inch	Rp 1/2"	Rp 3/4"	Rp 1"	Rp 1 - 1/4"	Rp 1 - 1/2"	Rp 2"	-	-
K (hexagon)	mm - inch	36 - 1,41	36 - 1,41	45 - 1,77	55 - 2,16	70 - 2,75	86 - 3,38	-	-
W	mm - inch	33 - 1,3	33 - 1,3	38,5 - 1,51	47,5 - 1,87	70 - 2,75	70,5 - 2,77	-	-
Weight	kg - lb	0,3 - 0,66	0,3 - 0,66	0,6 - 1,32	1 - 2,2	1,8 - 3,96	3,2 - 7	-	-

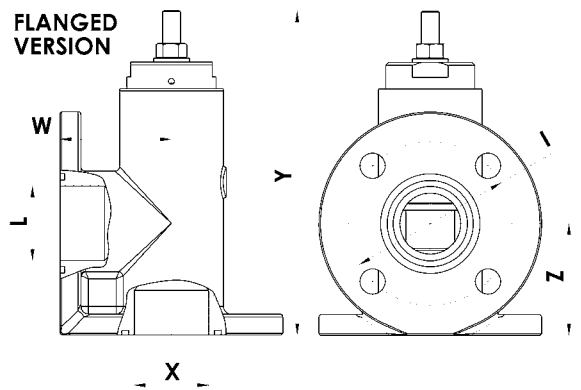
FLANGED VERSION		Threaded version only	Threaded version only	G25F	G35F	G40F	G50	G55R	G60R
X	mm - inch	-	-	Ø30,5 - Ø1,2	Ø35 - Ø1,37	Ø50 - Ø1,96	Ø56,5 - Ø2,2	Ø80 - Ø3,15	Ø82 - Ø3,22
Y	mm - inch	-	-	95 - 3,74	113 - 4,44	200 - 7,87	276 - 10,86	281 - 11,06	328 - 12,9
Z	mm - inch	-	-	42 - 1,65	46,5 - 1,83	75 - 2,95	67,5 - 2,65	114,5 - 4,5	130 - 5,11
L	mm - inch	-	-	Rp 1"	Rp 1 - 1/4"	Ø40,3 - Ø1,58	Ø60 - Ø2,36	Ø80 - Ø3,15	Ø90 - Ø3,54
W	mm - inch	-	-	38 - 1,5	47 - 1,85	75 - 2,95	69,5 - 2,73	126 - 4,96	132 - 5,2
I (Inlet flange)	mm - inch	-	-	67 - 2,63	78 - 3,07	110 - 4,33	105 - 4,13	160 - 6,3	160 - 6,3
O (Outlet flange)	mm - inch	-	-	-	-	110 - 4,33	105 - 4,13	160 - 6,3	180 - 7
Flange Bores	mm	-	-	No. 2xØ11	No. 2xØ10,5	No. 4xØ17	No. 4xM12	No. 8xØ18	No. 8xØ18
	inch	-	-	N°2x 0,43	N°2x 0,41	N°4x 0,67	-	N°4x 0,71	N°4x 0,71
Weight	kg - lb	-	-	0,6 - 1,32	1 - 2,2	3,2 - 7,05	3,2 - 7,05	7,5 - 16,53	8 - 17,63

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

### THREADED VERSION



### FLANGED VERSION



# THERMOSTATIC VALVE



## MAIN FEATURES:

A thermostatic valve is installed among the separator tank, the cooler and air-end housing. It is run by a thermostatic unit available at different working temperatures by-passing the oil towards the cooler when it reaches the set-up temperature. Different versions of thermostatic valves are available (with or without support for spin-on oil filter). **The Thermostatic Valve series is also available for Natural Gas and Water Lubricated applications.**

## MAINTENANCE:

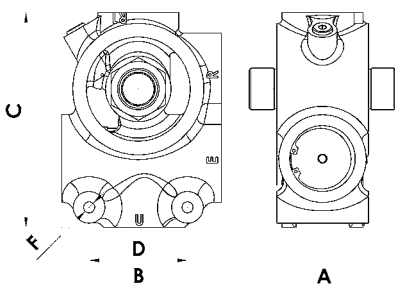
The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble shooting document.

VTFT TECHNICAL DATA		VTFT27 1/2"	VTFT27 3/4"	VT2FT37	VTFT47	VTFT57
Max Oil Flow rate	Lt/min-gal/min	45 - 11,9	80 - 21,15	140 - 37	180 - 47,5	360 - 95,1
Thread Connections		G 1/2"	G 3/4"	1"	Rp 1" 1/4	Rp 1" 1/2
Oil nipples Size		G 3/4"	G 3/4"	Nr. 2 x G3/4"	G 1-1/4"	Nr. 2 x G 1-1/4"
		1"-12 UNF	1"-12 UNF	Nr. 2 x 1"-12UNF	1-1/2" 16UN	Nr. 2 x 1-1/2" 16UN
Thermostat	°C	Three thermostat temperatures available: 55-70; 71-85 or 83-95				
Temperature Setting	°F	131-158; 159,8-185 or 181,4-203				
Materials		Housing in anodized Aluminium alloy. Inside parts in Brass and Viton sealings.				
A	mm - inch	60,8 - 2,4	60,8 - 2,4	63 - 2,5	68 - 2,67	84 - 3,3
B	mm - inch	95 - 3,75	95 - 3,75	122 - 4,8	125 - 4,9	146 - 5,75
C	mm - inch	107 - 4,2	107 - 4,2	142 - 5,6	182 - 7,16	197 - 7,76
D	mm - inch	50 - 2	50 - 2	60 - 2,36	70 - 2,75	90 - 3,55
F	mm - inch	Nr. 4xM8	Nr. 4xM8	Nr. 2xM10	Nr. 2xM12	Nr. 2xØ10,2
Weight	kg-lb	0,9 - 2	0,9 - 2	1,6 - 3,52	2,5 - 5,5	3,7 - 8,15

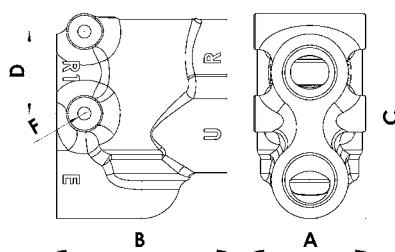
VT-VTS TECHNICAL DATA		VT27 1/2" VTS27 1/2"	VT27 3/4" VTS27 3/4"	VT37 VTS37	VTS47	VTS57
Max Oil Flow rate	Lt/min-gal/min	45 - 11,9	80 - 21,15	140 - 37	180 - 47,5	360 - 95,1
Thread Connections		Rp 1/2"	Rp 3/4"	Rp 1"	Rp 1-1/4"	Rp 1-1/2"
Thermostat	°C	Three thermostat temperatures available: 55-70; 71-85 or 83-95				
Temperature Setting	°F	131-158; 159,8-185 or 181,4-203				
Materials		Housing in anodized Aluminium alloy. Inside parts in Brass and Viton sealings.				
A	mm - inch	45 - 1,77	45 - 1,77	68 - 2,67	72 - 2,83	88 - 3,46
B	mm - inch	80 - 3,15	80 - 3,15	104 - 4,1	114 - 4,49	126 - 4,96
C	mm - inch	110 - 4,33	110 - 4,33	125 - 4,92	125 - 4,92	146 - 5,75
D	mm - inch	50 - 1,97	50 - 1,97	50 - 1,97	70 - 2,75	90 - 3,54
F	mm	Nr. 2xØ6,5	Nr. 2xØ6,5	Nr. 2xØ8,5	Nr. 2xØ10,2	Nr. 2xØ10,2
	inch	Nr. 2 x Ø0,25	Nr. 2 x Ø0,25	Nr. 2 x Ø0,33	Nr. 2 x Ø0,4	Nr. 2 x Ø0,4"
Weight	kg-lb	0,7 - 1,55	0,7 - 1,55	1,2 - 2,64	1,2 - 2,64	1,9 - 4,2

Attention: The drawing below is not suitable for all models. Please log on to our website for specific drawings.

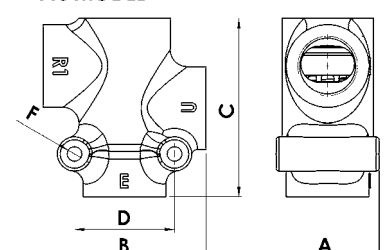
### VTFT MODEL



### VT MODEL



### VTS MODEL



## OIL RECOVERY VIEWER mod. VRO



It allows seeing the oil recovered from the separator filter and flowing to the air-end. Outfitted with a check valve and available with different orifice sizes (from 0,6mm up to 3,5mm), this valve has to be installed between the separator filter and the air-end. It can also be supplied in STAINLESS STEEL upon request.

## PROPORTIONAL CONTROL VALVE mod. GE300



It modulates the intake valve opening and closing based on the requested working pressure from the line. Outfitted with extra ports to be connected to the accelerator/ actuator and manometer, it is available both in a positive and negative version. Working pressure can be set up through an adjusting screw from 6 to 15 barg. It has to be installed between the separator tank and intake valve.

## AIR-INJECTION VALVE mod. ISGN



This valve eliminates any noise during the idling phase through air injection into the air-end. It is usually installed directly on the intake valve and connected to the separator tank.

## BLOW DOWN VALVE mod. GHS

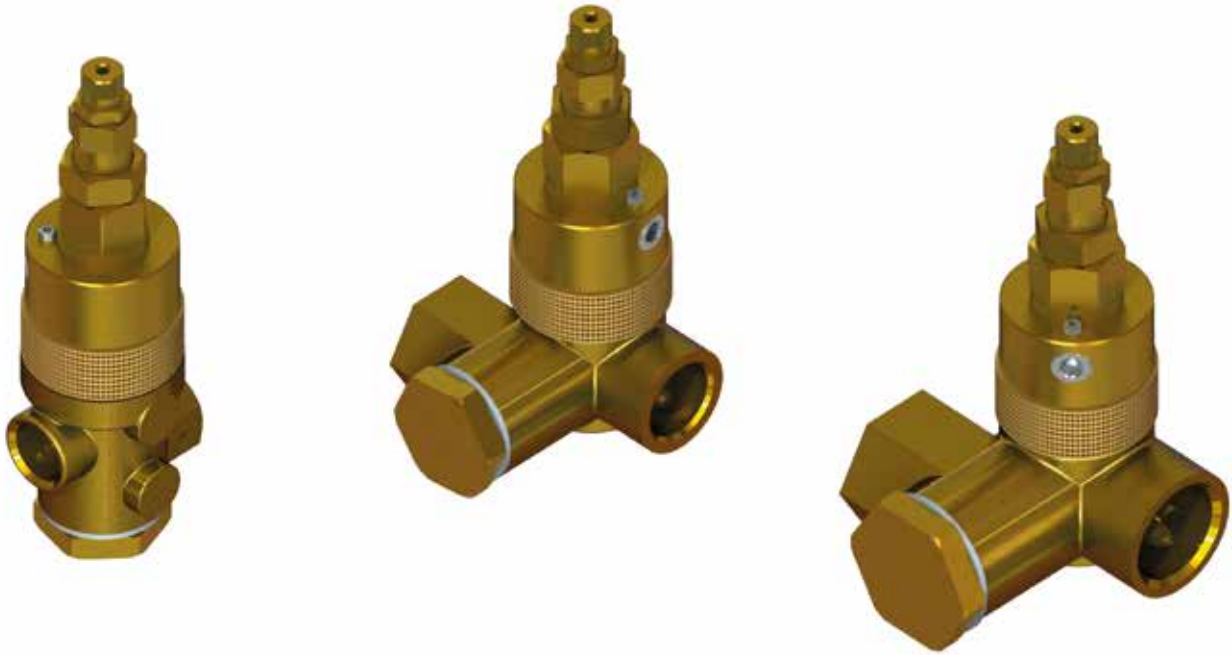


This pneumatic valve is used to blow down pressure from the pumping circuit when the compressor is shut down. This valve is usually installed directly either on the intake valve or the air-end and connected with the separator tank.

## ACCELERATOR mod. H



This pneumatic device is used to control the diesel engine speed based on the working pressure of the machine. It is usually installed directly on the diesel motor and connected to the proportional control valve.



### MAIN FEATURES:

An idling device is usually installed on the air tank receiver of a piston compressor to control its working pressure. It includes a non-return valve and an adjusting screw setting up the cut-on/cut-off pressure, an extra port that can be connected to the accelerator/actuator. It is available in different versions based on the various piston compressor sizes.

### MAINTENANCE:

The wear-and-tear of valve components depends on compressor applications and operating parameters. Valve inspection and ordinary maintenance are recommended using SISTEMA's original spare parts kits whose instructions are indicated in the maintenance and trouble-shooting document.

TECHNICAL DATA		A1	B2	C2	D2	E1
Air Flow	m <sup>3</sup> /min - cfm	0,18 - 6,3	0,35 - 12,3	0,8 - 28,2	1,5 - 53	3 - 106
Air Inlet-Outlet		G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1-1/4"
DIMENSIONS						
X	mm/inch	-	-	49 - 1,92	56 - 2,2	89 - 3,5
J	mm/inch	45 - 1,77	45 - 1,77	57 - 2,24	68 - 2,67	87 - 3,42
Z	mm/inch	Ø38 - Ø1,49	Ø38 - Ø1,49	70 - 2,75	76 - 2,99	118 - 4,64
K	mm/inch	118 - 4,64	140 - 5,5	117 - 4,6	122 - 4,8	132 - 5,2
P		G 1/8"	G 1/8"	G 1/8"	G 1/8"	-

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