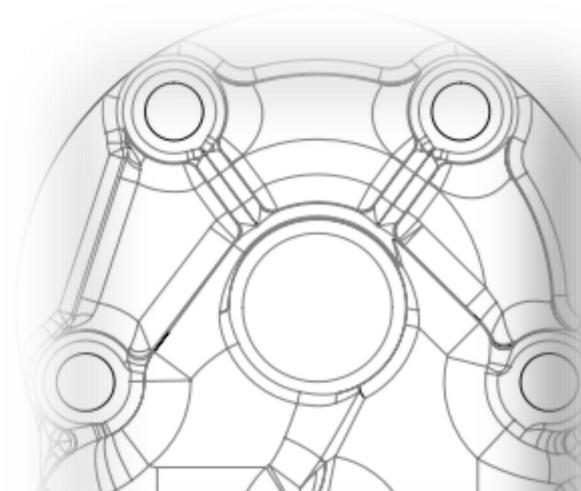


***SAI***

POWER THROUGH EFFICIENCY

DISTRIBUTORS



## DISTRIBUTORS

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# TECHNICAL CATALOGUE

## INDEX

- 
- 2 GENERAL INFORMATION
  - 12 OPTIONS
  - 16 TECHNICAL DATA

## INTRODUCTION TO THE CATALOGUE AND SYMBOLS USED

This catalogue consists of:

- A topic index;
- An introduction page;
- Texts and warnings divided into chapters, paragraphs and subsections.

SYMBOLS INDICATING DANGEROUS SITUATIONS OR VERY IMPORTANT INFORMATION.



### **WARNING!**

Indicates risky situations for people, refers to accident prevention and suggests behavioral procedures.



### **NOTE!**

Indicates useful information for the consultation of the manual and the smooth operation of the machine.



## GENERAL INFORMATION

### **Introduction**

Read and store this technical catalogue carefully. The information in it contained will be needed to correctly select the product.

The components are manufactured in compliance with the directives of the European community concerning the free circulation of industrial goods in the E.U. and is therefore supplied with all the necessary documentation.

The manufacturer has designed the components in order to ensure safe usage conditions.



### **Purpose of the catalogue**

This catalogue is aimed to present the products in it contained to aid in the selection of the most suitable component for the required application.

SAI hydraulic motors will not be held liable for damages, accidents or drawbacks resulting to the failure to comply to the instructions given in this manual. SAI will also not be held liable for the modification and/or installation of non-authorized accessories.



### **Updating the catalogue**

It is recommended to constantly keep this catalogue updated by adding amendments, updates or modifications made by the manufacturer. New pages will be sent in the event of minor changes and it will be up to the user to integrate them within the catalogue, replacing the existing ones in the related chapters or paragraphs. A revised copy of the catalogue will be sent to replace the existing version in the event of substantial changes to the components. At which point the old version of the catalogue must be destroyed.



### **COMMON DEFINITIONS**

In this catalogue and most of the SAI documents the following specific terminology is used to describe specific key points of the SAI products.

The peak values indicate the maximum working conditions that the product can withstand. This means that the component can in fact work at its peak working conditions for a period of time that does not exceed 1% per minute and not more than 10 times per hour.

The cont.us working condition values are the ones that can be applied cont.usly without harming the product. This means that it is the working conditions at which the component can run until the end of its calculated lifetime.



## HYDRAULIC FLUIDS

### OLI MINERALI

SAI suggests to use good quality hydraulic mineral oil, preferably with additives for high pressure, anti-corrosive, anti-wear and anti-foaming. The hydraulic fluid used has to be chosen in order for the viscosity is within the indicated range to the normal working temperature conditions.

#### Admissible temperature range:

Ottimale: +30°C a +50°C

Ammissibile: -20°C a +80°C

On request our motors can be manufactured to operate at lower (down to -40°C) or higher (up to +120°C) temperatures.

#### Operating viscosity range:

Ottimale: 40 cSt a 60 cSt

Ammissibile: 10 cSt a 150 cSt

NOTE: motor lifetime is influenced from the oil viscosity, please contact SAI to calculate your application lifetime.



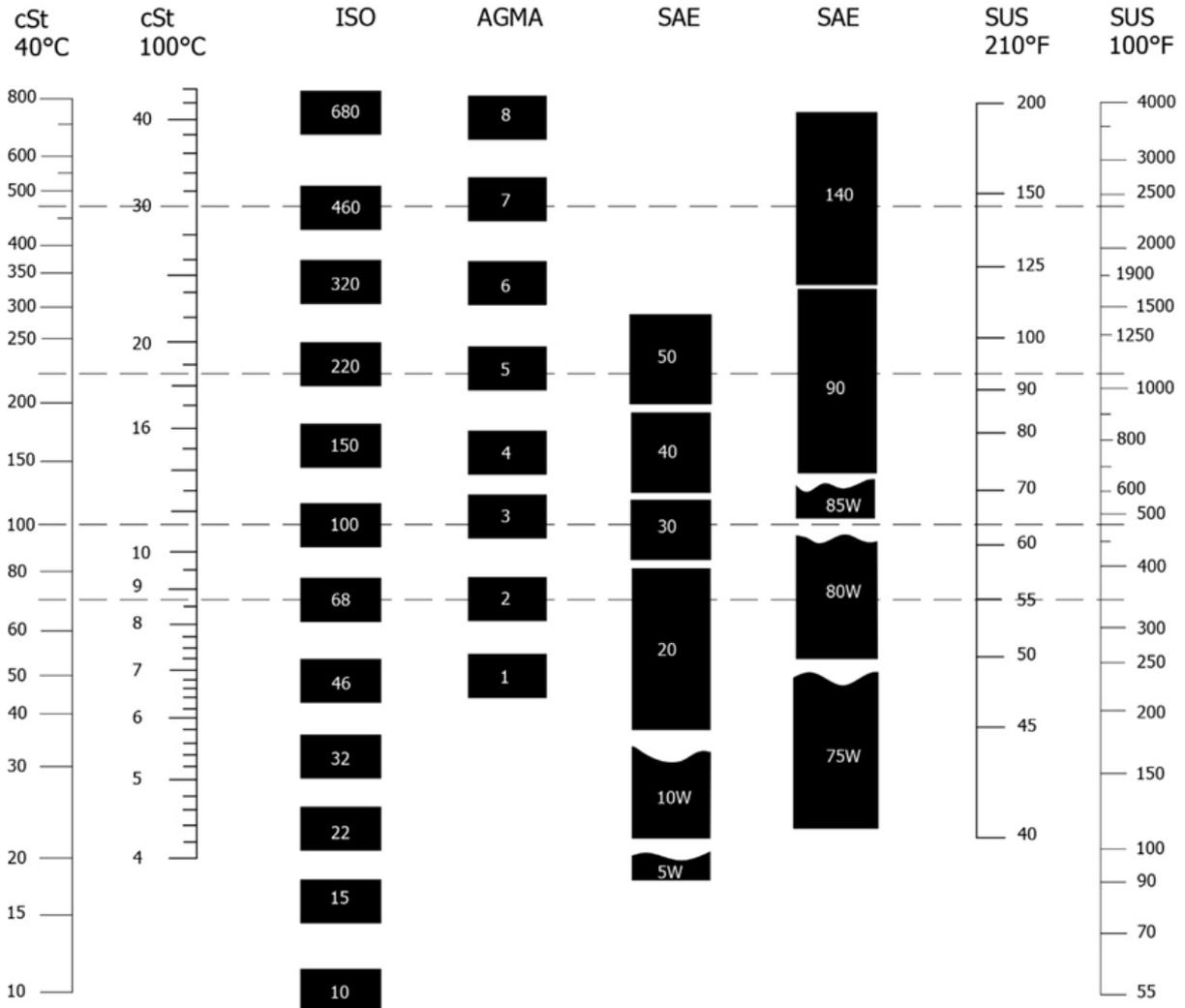
After the initial start up please verify the level of the lubricant periodically and top up whenever necessary. The first oil change has to be made after 15-20 hours of operation. The following changes must be performed after 800-1000 hours, or one year of operation, whichever comes first.

### FIRE RESISTANT FLUIDS

- (i) **Synthetic fluids:** (phosphate esters, polyesters, ...). These fluids have similar characteristics to mineral oils and the same temperature and viscosity ranges are applicable. These kinds of fluids may, however, require seals of suitable material (such as FKM seals) which are available on request.
- (ii) **Water based fluids:** (water-oil emulsions, water-glycol solutions, ...) due to the low viscosity of these fluids the lifetime of the components is reduced.

SAYBOLT VISCOSITIES

KINEMATIC VISCOSITIES **GRADE SYSTEMS** SAYBOLT VISCOSITIES





## START UP

Before connecting the pipes, make sure that they are clean and that there is no rust.

On the first start up remove all air from the hydraulic circuit. Make sure that there are no oil leaks from the joints and from the body.

The products are tested at the factory and do not need a testing period.

## PIPES AND CONNECTIONS

SAI recommends the use of high quality piping and connections for high pressure hydraulic applications.

Follow manufacturer's recommendations for pipe sizes, in any case do not use pipes which are smaller than the port connections; to reduce the effects of oil compressibility, use pipes with minimum possible width and diameter and maximum rigidity; to reduce the effects of a load loss avoid sharp corners, restrictions and high flow speed.



## FILTRATION

SAI recommends using filters with gradation up to 25  $\mu\text{m}$ , preferably 10  $\mu\text{m}$ .

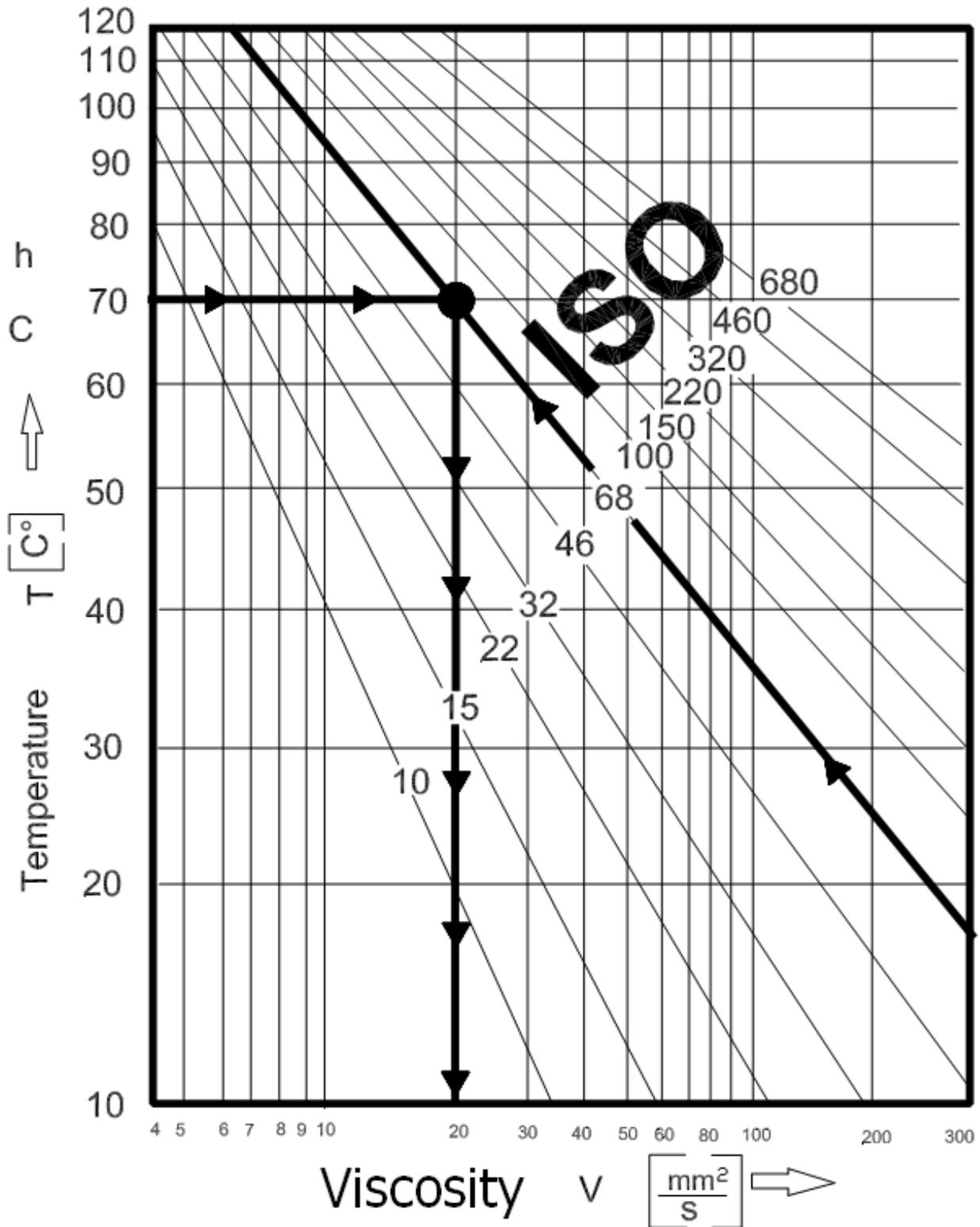
SAI products have a good resistance to contaminated oil; however filter efficiency and therefore clean oil, are important for the correct functioning and reliability of all the components in the hydraulic system.

The efficiency of the filtering agents is greatly reduced with a progressive accumulation of filtered particles, therefore the filters have to be regularly checked. It is recommended to pay close attention at the first start up of the hydraulic system or in the event of a replacement of any component for damage or excessive usage. It is advisable to follow the filter manufacturer's recommendations for its life span and cleaning or substitution cycles.

KINEMATIC VISCOSITIES

GRADE SYSTEMS

SAYBOLT VISCOSITIES





## DISTRIBUTOR COVER ORIENTATION

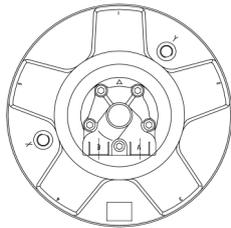
SAI motors can be provided with the distributor cover orientated in any of the following directions. These are selectable among the following positions:

DM1 for position 1, DM2 for position 2 etc.

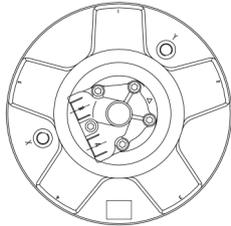
This position has to be stated at the end of the full description of the motor.

If no specification is made the standard position is DM1.

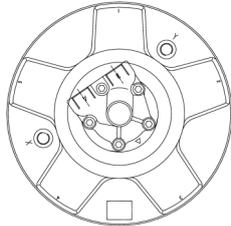
Position 1 DM1



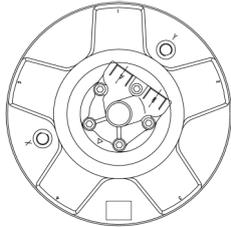
Position 2 DM2



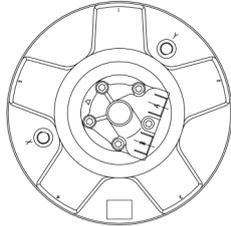
Position 3 DM3



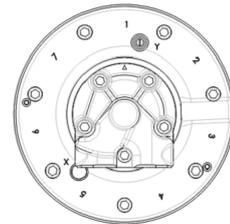
Position 4 DM4



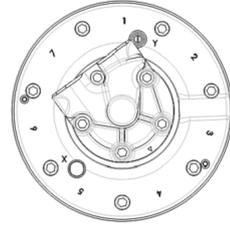
Position 5 DM5



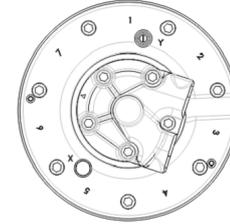
Position 1 DM1



Position 2 DM4



Position 3 DM7



Five piston motor.  
SERIES: GM, GS, BD, GK, BDK, BVK

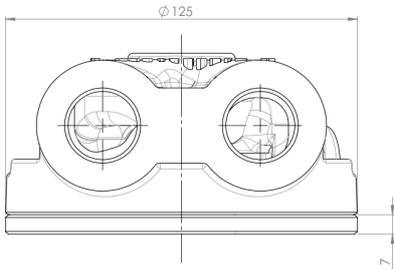
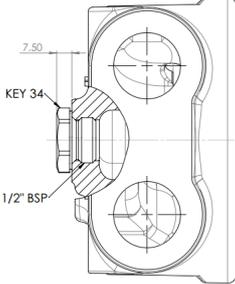
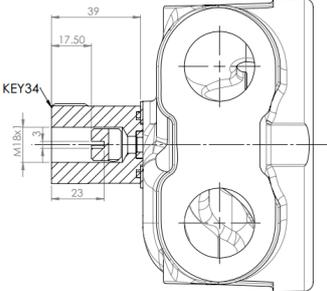
Seven piston motor.  
SERIES: TF, TD, TV, TS8

		Technical Datasheet										Tab.05	
		METRIC SYSTEM BOLT TORQUE SETTINGS										REV.	2
NORM		CLASS OF RESISTANCE											
DIN 267		5.8		6.8		8.8		10.9		12.9			
		5S		6S		8G		10K		12K			
Ø Bolt	Hexagon mm	Pitch coarse mm	Pitch fine Mm	Pitch coarse Nm	Pitch fine Nm								
<b>M2</b>	<b>4</b>	0.4	-	0.2 0.2	- -	0.2 0.3	- -	0.3 0.4	- -	0.4 0.5	- -	0.5 0.6	- -
<b>M2.5</b>	<b>5</b>	0.45	-	0.4 0.5	- -	0.5 0.6	- -	0.6 0.8	- -	0.9 1.1	- -	1.1 1.3	- -
<b>M3</b>	<b>5.5</b>	0.5	-	0.7 0.8	- -	0.8 1.0	- -	1.1 1.3	- -	1.5 1.9	- -	1.8 2.3	- -
<b>M3.5</b>	<b>6</b>	0.6	-	1.1 1.3	- -	1.3 1.5	- -	1.7 2.1	- -	2.4 2.9	- -	2.8 3.5	- -
<b>M4</b>	<b>7</b>	0.7	-	1.6 1.9	- -	1.9 2.3	- -	2.5 3.1	- -	3.5 4.3	- -	4.2 52	- -
<b>M5</b>	<b>8</b>	0.8	-	3.1 3.8	- -	3.7 4.5	- -	4.9 6.0	- -	6.9 8.5	- -	8.3 10.0	- -
<b>M6</b>	<b>10</b>	1,0	-	5.3 6.5	- -	6.4 7.8	- -	8.5 10.0	- -	12.0 15.0	- -	14.0 18.0	- -
<b>M7</b>	<b>11</b>	1.0	-	8.7 11.0	- -	10.0 13.0	- -	14.0 17.0	- -	20.0 24.0	- -	24.0 29.0	- -
<b>M8</b>	<b>13</b>	1.25	1.0	13.0 16.0	14.0 17.0	15.0 19.0	16.0 20.0	20.0 25.0	22.0 27.0	29.0 35.0	31.0 38.0	34.0 42.0	37.0 46.0
<b>M10</b>	<b>17</b>	1.5	1.25	25.0 31.0	26.0 33.0	30.0 37.0	32.0 39.0	40.0 50.0	42.0 53.0	57.0 70.0	59.0 74.0	68.0 84.0	71.0 89.0
<b>M12</b>	<b>19</b>	1.75	1.5	43.0 53.0	45.0 56.0	52.0 64.0	54.0 67.0	69.0 85.0	72.0 89.0	97.0 119.0	101.0 125.0	116.0 143.0	121.0 150.0
<b>M14</b>	<b>22</b>	2.0	1.5	68.0 84.0	74.0 92.0	82.0 101.0	89.0 111.0	110.0 135.0	118.0 148.0	154.0 190.0	166.0 208.0	185.0 228.0	199.0 250.0
<b>M16</b>	<b>24</b>	2.0	1.5	106.0 132.0	112.0 141.0	128.0 159.0	135.0 170.0	128.0 212.0	180.0 226.0	240.0 298.0	253.0 318.0	287.0 357.0	303.0 382.0
<b>M18</b>	<b>27</b>	2.5	2.0	147.0 182.0	155.0 194.0	176.0 218.0	186.0 233.0	235.0 290.0	248.0 310.0	330.0 402.0	349.0 436.0	397.0 490.0	419.0 523.0
<b>M20</b>	<b>30</b>	2.5	2.0	208.0 258.0	217.0 273.0	249.0 310.0	261.0 327.0	332.0 413.0	347.0 436.0	467.0 580.0	489.0 614.0	561.0 697.0	586.0 736.0
<b>M22</b>	<b>34</b>	2.5	2.0	284.0 355.0	296.0 373.0	341.0 426.0	355.0 448.0	454.0 568.0	474.0 597.0	639.0 798.0	666.0 840.0	767.0 958.0	799.0 1008.0
<b>M24</b>	<b>36</b>	3.0	2.0	359.0 446.0	386.0 488.0	431.0 535.0	463.0 586.0	574.0 714.0	617.0 781.0	808.0 1004.0	868.0 1098.0	969.0 1204.0	1041.0 1317.0
<b>M27</b>	<b>41</b>	3.0	2.0	525.0 656.0	561.0 712.0	630.0 788.0	673.0 855.0	840.0 1050.0	897.0 1139.0	1181.0 1477.0	1261.0 1602.0	1418.0 1772.0	1513.0 1923.0
<b>M30</b>	<b>46</b>	3.5	2.0	716.0 893.0	780.0 994.0	859.0 1072.0	936.0 1193.0	1146.0 1429.0	1248.0 1590.0	1611.0 2009.0	1754.0 2236.0	1933.0 2411.0	2105.0 2648.0
<b>M33</b>	<b>50</b>	3.5	2.0	968.0 1213.0	1045.0 1335.0	1162.0 1456.0	1254.0 1602.0	1549.0 1941.0	1673.0 2136.0	2179.0 2792.0	2351.0 3004.0	2614.0 3275.0	2821.0 3605.0
<b>M36</b>	<b>55</b>	4.0	3.0	1248.0 1561.0	1310.0 1658.0	1498.0 1873.0	1572.0 1989.0	1997.0 2497.0	2096.0 2652.0	2809.0 3511.0	2948.0 3730.0	3370.0 4213.0	3537.0 4476.0
<b>M39</b>	<b>60</b>	4.0	3.0	1615.0 2026.0	1690.0 2144.0	1938.0 2431.0	2028.0 2573.0	2584.0 3242.0	2703.0 3430.0	3633.0 4559.0	3802.0 4824.0	4360.0 5471.0	4562.0 5789.0

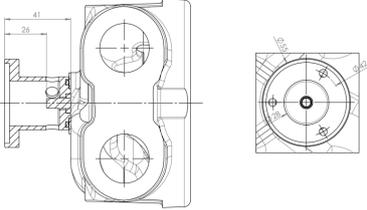
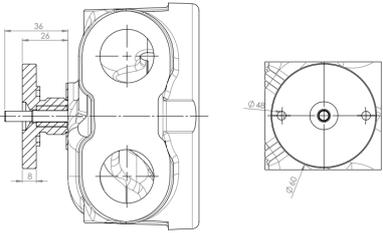
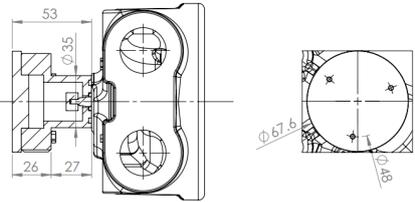
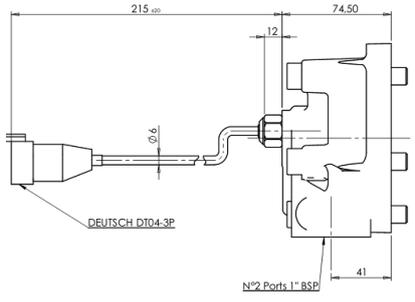
The torque values are to be considered as reference only as they can vary depending on the kind of coupling (rigid, semi-rigid, elastic, etc.), on the material on which the bolts have to be fixed on, on the length of the bolt, on the kind of wrench used (impact wrench, friction wrench, cont.us torque wrench, etc.), on the finishing condition of the thread, etc. Therefore it is advised to test the couplings to identify the most correct way to tighten them. In the event that the coupling is done with locknuts or self-locking nuts the value of the torque has to be increased by approximately 15%.

D30	3/4" BSP	With axial ports
D31	3/4" BSP	
D31G	3/4" BSP	
D36	1" 1/16" UNF	
D37	1" SAE 3000psi	
D310	1" BSP	
D311	1" BSP	With purge valve 20 lit 20 bar
D312	3/4" BSP	With purge valve 20 lit 20 bar
D313	1" BSP	With shuttle valve for high pressure pilot
D314	1" BSP	With anti-cavitation valve
D316	1" 5/16" UNF	
D320	1" BSP	
D322	3/4" BSP	With anti-cavitation valve
D40	1" BSP	
D416	1" 5/16" UNF	
D47	1" SAE 3000psi	
D47R	1" SAE 6000psi	
D47D	1" SAE 6000psi	With the hydraulic valve for the pilot of the dual displacement
D47V	1" SAE 6000psi	With electrical proportional valve for pilot the displacement
D48	1" BSP	With double sliding spool pressure relief valves 150 l/min standard calibration 350 bar
D481	1" BSP	With double sliding spool pressure relief valves 150 l/min standard calibration 350 bar, with purge valve, 20 l/min, 20 bar
D49	1" BSP	With double sliding spool pressure relief valves 150 l/min standard calibration 250 bar
D491	1" BSP	With double sliding spool pressure relief valves 80 l/min standard calibration 250 bar, with purge valve, 20 l/min, 20 bar
D504	1" BSP	With double sliding spool pressure relief valves 80 l/min standard calibration 210 bar, with purge valve, 20 l/min, 20 bar
D51	1" BSP	With overcentre valve and shuttle valve for high pressure pilot, standard calibration 210bar
D510	1" BSP	For free-wheeling in "short-circuit"
D524	1" BSP	With double overcentre valve and shuttle valve for high pressure pilot
D90	1 1/2" SAE 6000psi	
D907	1 1/2" SAE 6000psi	
D907D	1 1/2" SAE 6000psi	With the hydraulic valve for the pilot of the dual displacement
D907V	1 1/2" SAE 6000psi	With electrical valve for pilot the displacement
D250	2" SAE 6000psi	

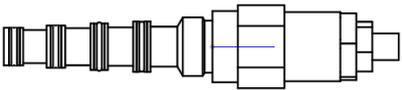
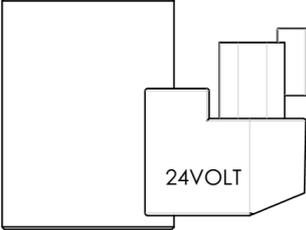
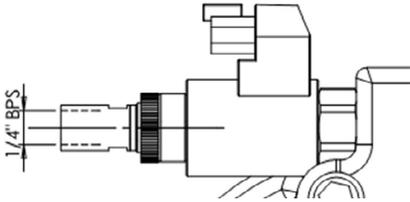
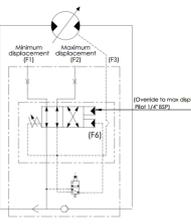
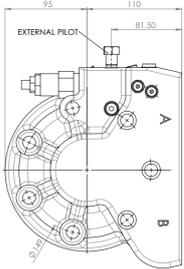
## OPTIONS

<p>DBM</p>		<p>DBM: Kit for high speed distributions D3... with DBM reach the speed limit distributors D4...</p>
<p>C</p>	<p style="text-align: center;">/</p>	<p>Rotary valve for low noise.</p>
<p>K</p>		<p>Threaded hole 1/2 "BSP for installation support on the distributor tacho drive.</p>
<p>J</p>		<p>Tacho drive support.</p>

OPTIONS

<p>JY</p>		<p>Tacho drive support. ROD 400</p>
<p>JD 60</p>		<p>Tacho drive support. JD60</p>
<p>JX</p>		<p>Tacho drive support. JX</p>
<p>HU</p>		<p>Sensor hall effect unidirectional integrated for the speed reading.</p>

## OPTIONS

<p>PI</p>		<p>Only applies to distributions and D47D D907D. Change displacement piloted reversed. Option to pilot the motor to maximum displacement. Without pilot pressure the motor will be in minimum displacement only for speed motor.</p>
<p>V24</p>	<p>DEUTSCH DT042P</p> 	<p>Applicable on dual displacement motors that mount D47V and D907V. Piloting displacement with a voltage of 24 volts. (instead of the standard 12 volts)</p>
<p>OV</p>		<p>Only applies to distributions D47V and D907V. It allows you to stop the driving gear displacement with a pilot signal.</p>
<p>EP</p>	 	<p>Applicable on the following distributor: D47D, D47V, D907D D907V. Increase the displacement switching reactivity using an external pilot line.</p>

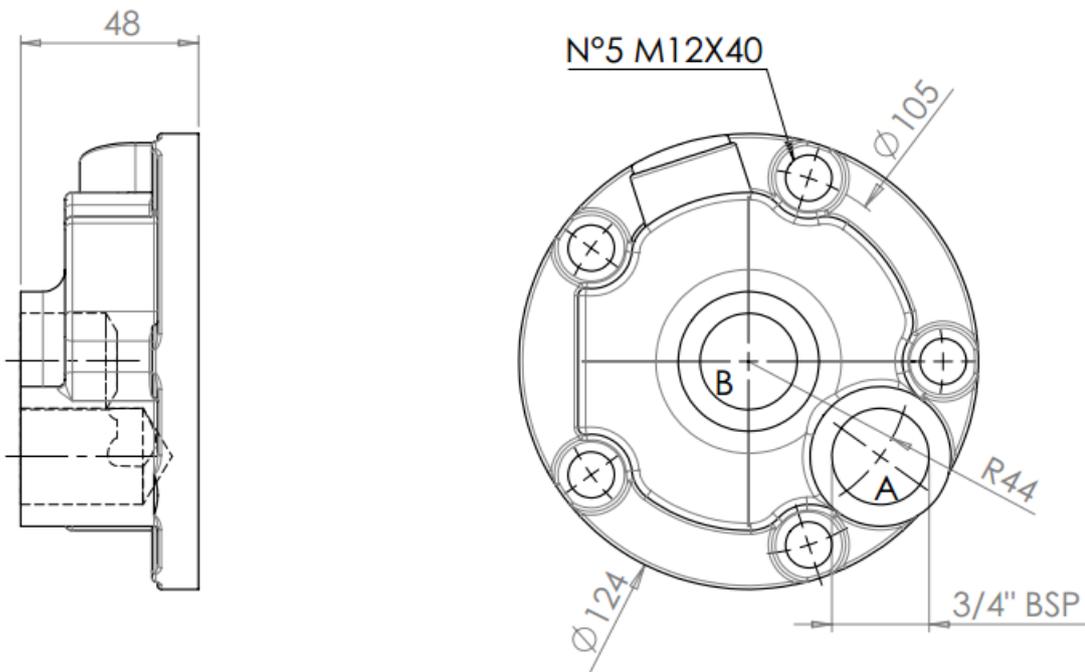
**D30**

Distributor with axial ports 3/4" BSP.

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	140	150
Peak.	500	280	300
Mass 2.5 kg			

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DBM	GM05, GM1, GM2, P1
C	

**D31**

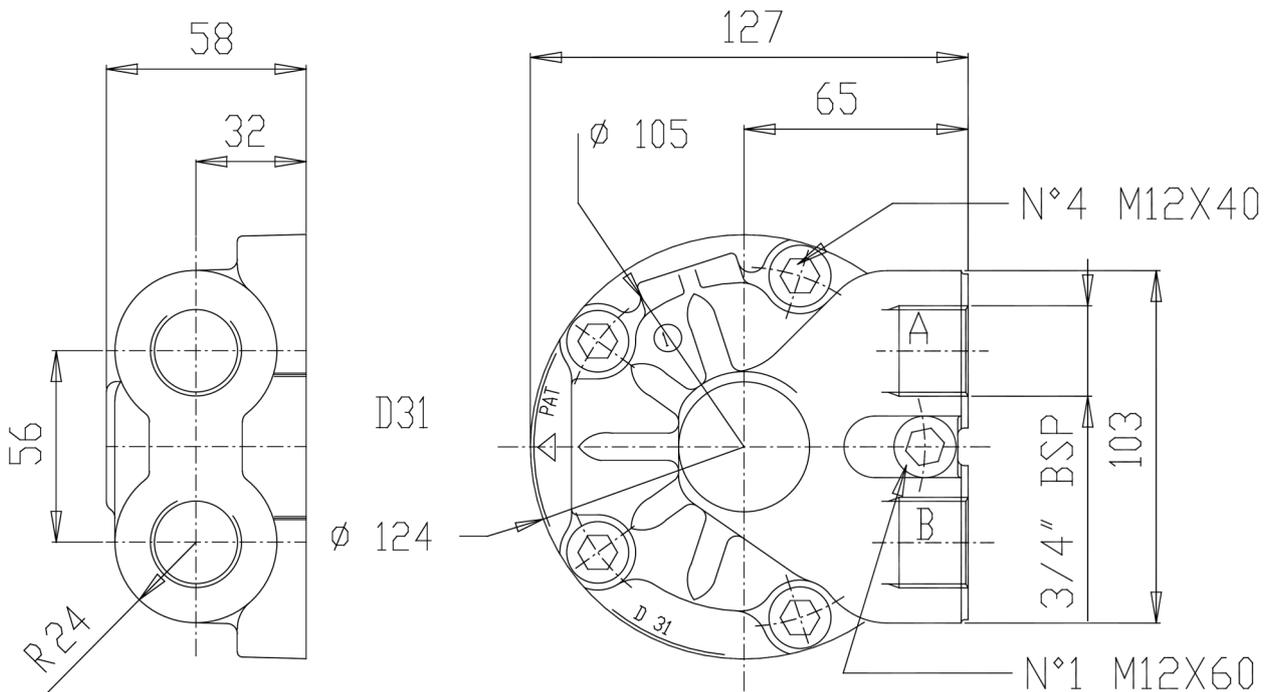
Distributor with ports 3/4" BSP.

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	150
Peak.	500	450	300

Mass 4 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DBM	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C	
K	
J, JX, JD60, JY	

**D31G**

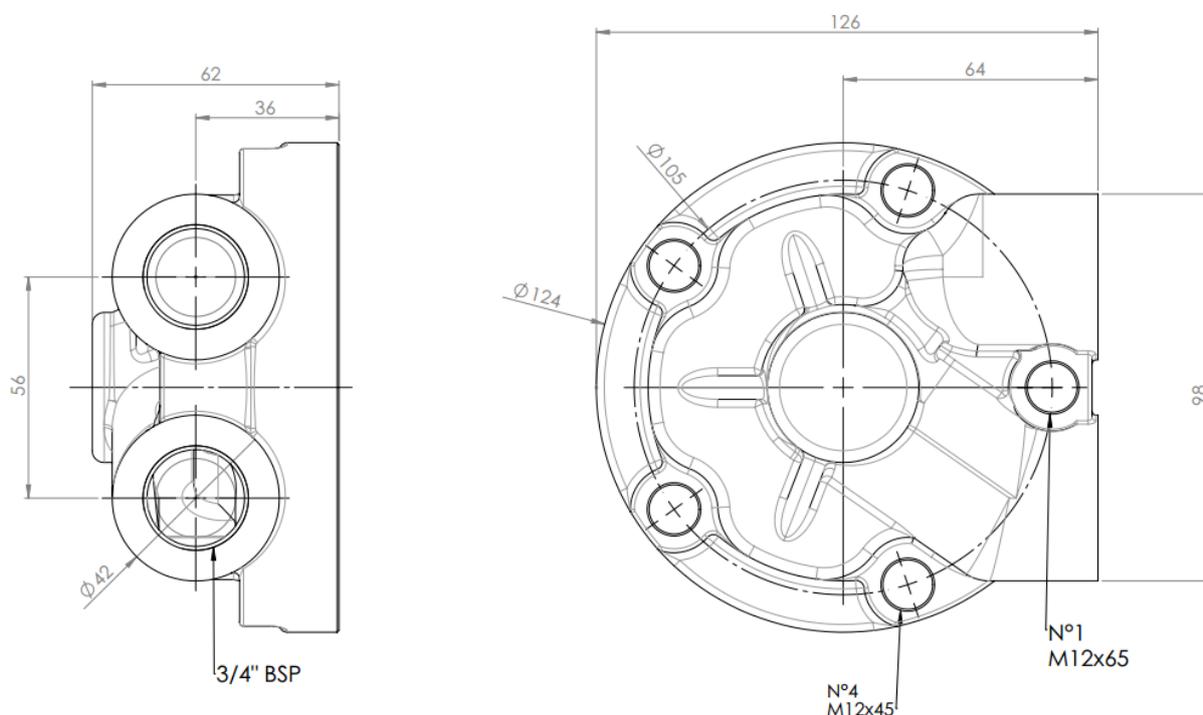
Distributor with ports 3/4" BSP.

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	1600	350	150
Peak.	2400	450	200

Mass 4 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
C	GM05, GM1, GK3
K	

**D36**

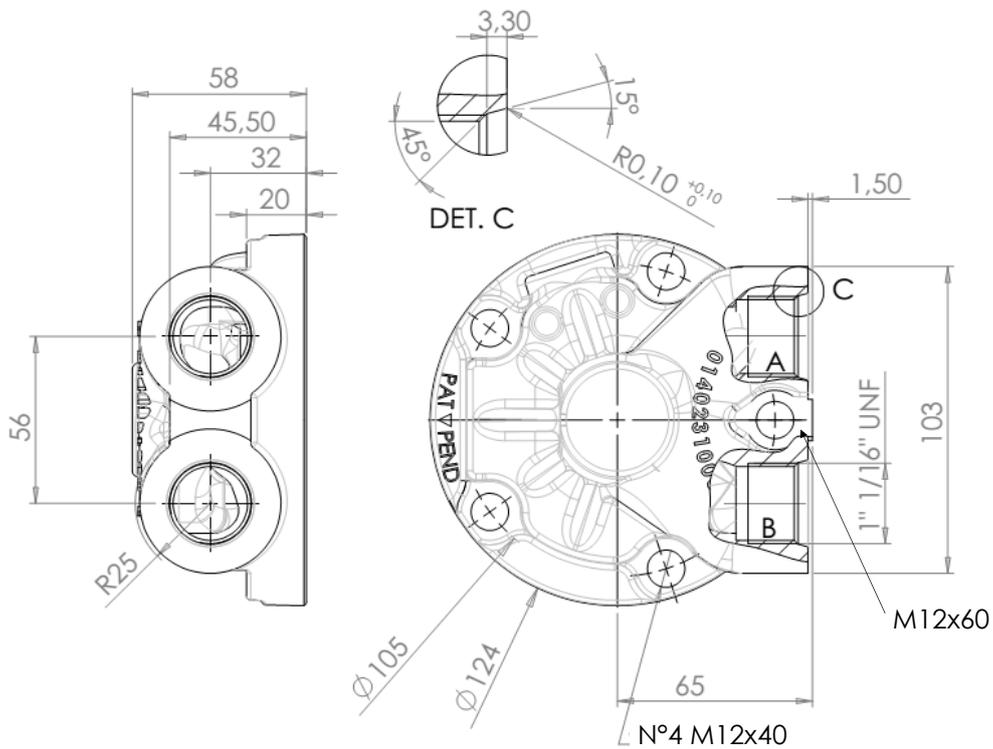
Distributor with ports 1" 1/16" UNF.

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 4 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DBM	GM05, GM1, GM2, GM3, GM4, GM5A P05, P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C	
K	
J, JX, JD60, JY	

**D37**

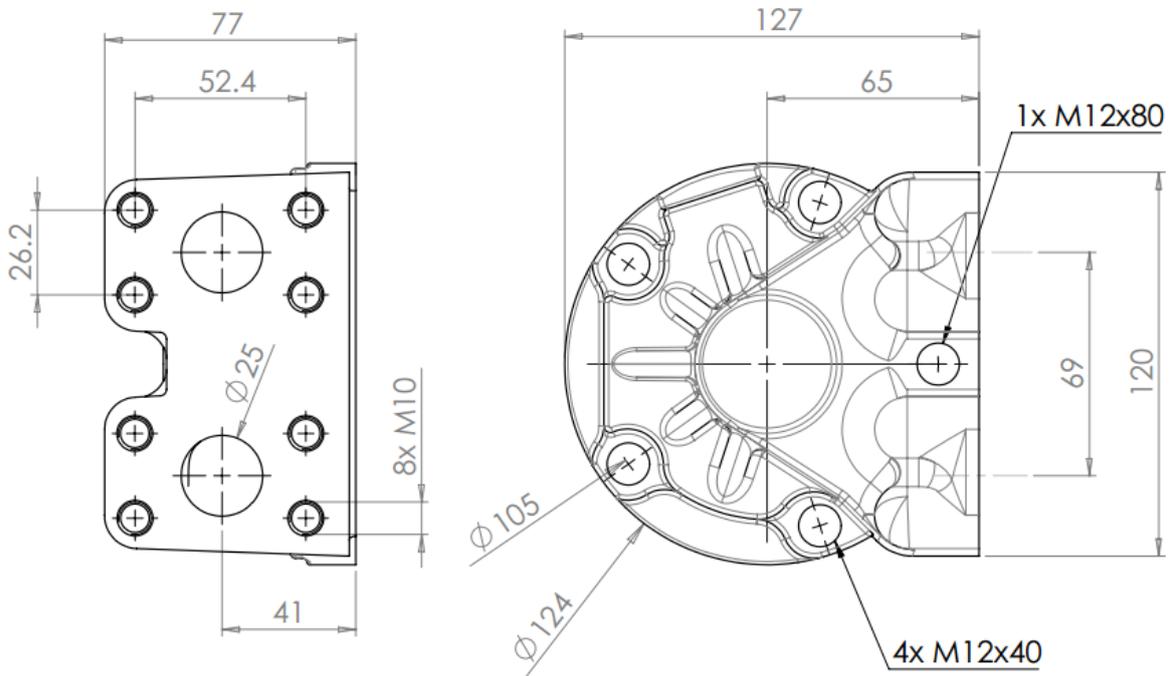
Distributor with ports 1" SAE 3000 psi .

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 4.5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DBM	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C	
K	
J, JX, JD60, JY	

**D310**

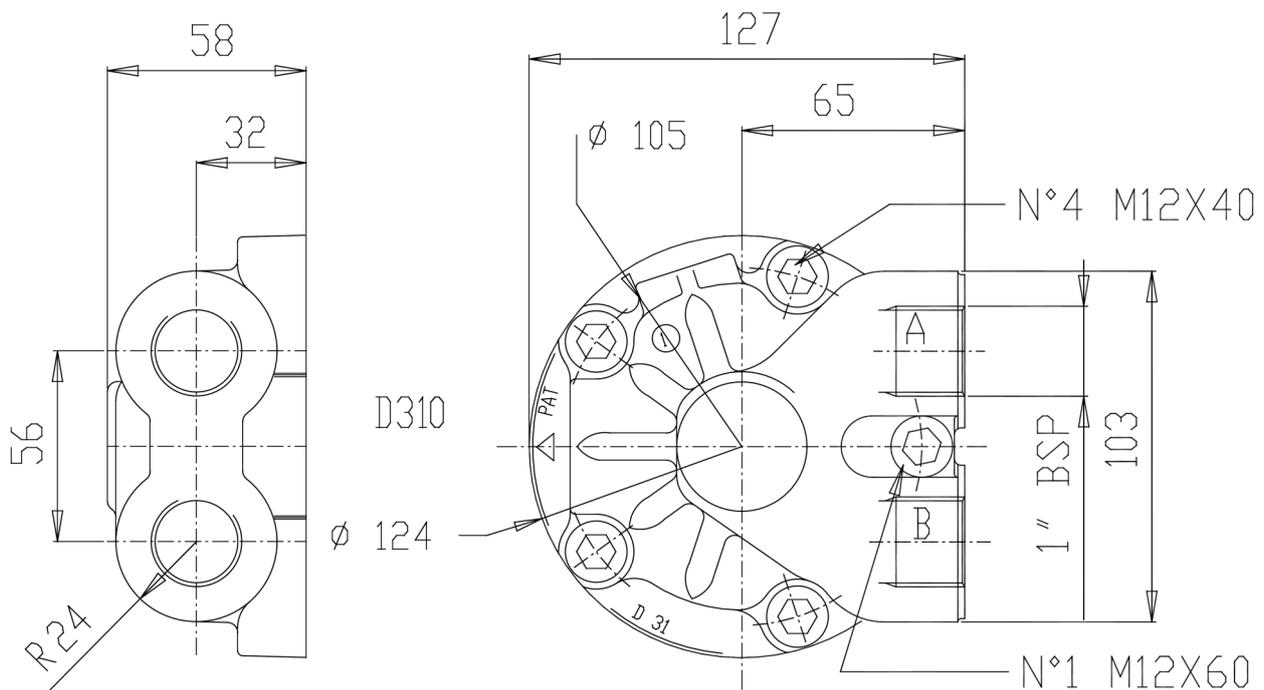
Distributor with ports 1" BSP.

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 4 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DBM	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C	
K	
J, JX, JD60, JY	

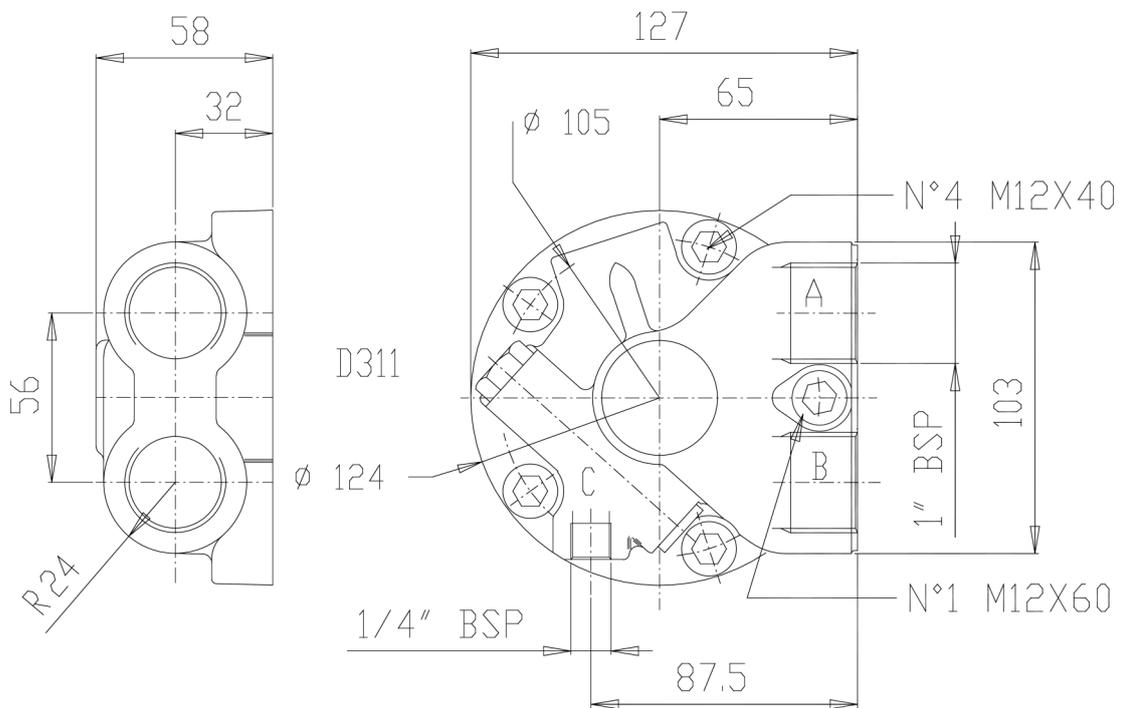
**D311**

Distributor with ports 1" BSP, with purge valve 20 lit. 20 bar.

Details

	Speed [rpm]	Pressure [bar]	Flow [l/min]
* Cont.	300	250	200
Peak.	500	350	400
Mass 4.5 kg			

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
DBM		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C		
K		
J, JX, JD60, JY		

## D311ESB

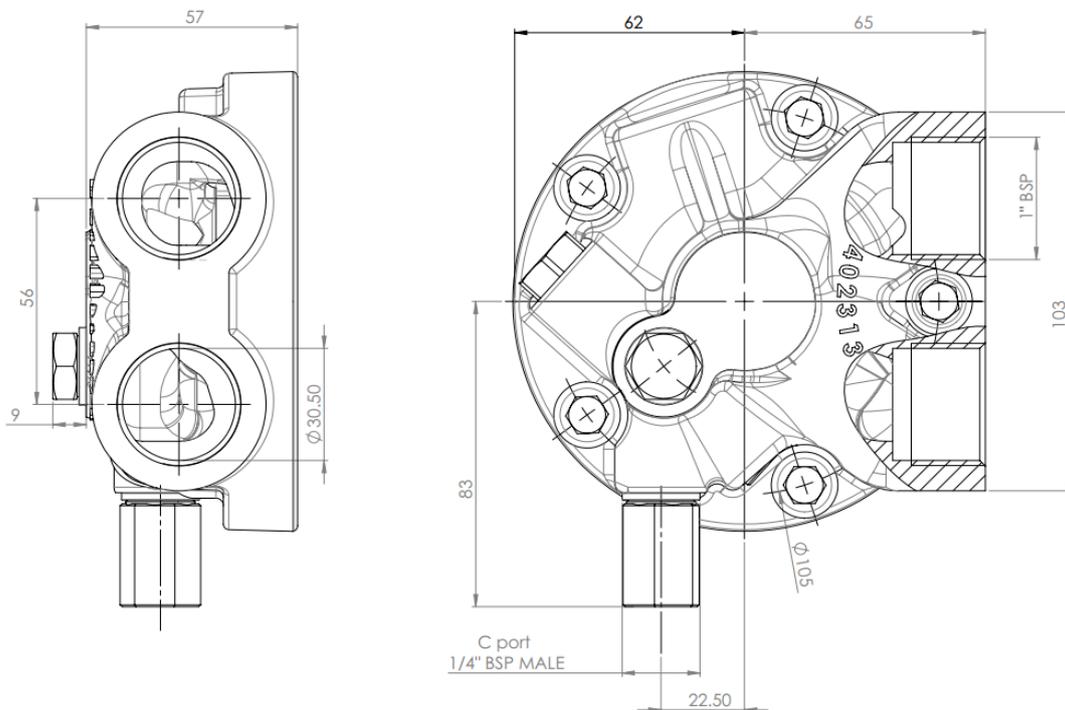
Distributor with ports 1" BSP, with purge valve 8 l/min at 20 bar.  
Calibration craking valve: 16 bar.

### Details

	Speed	Pressure	Flow
*	[rpm]	[bar]	[l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 4.5 kg

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
DBM		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2
C		Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2
K		GK3(A), GFK3(A), GK4, GFK4

**D312**

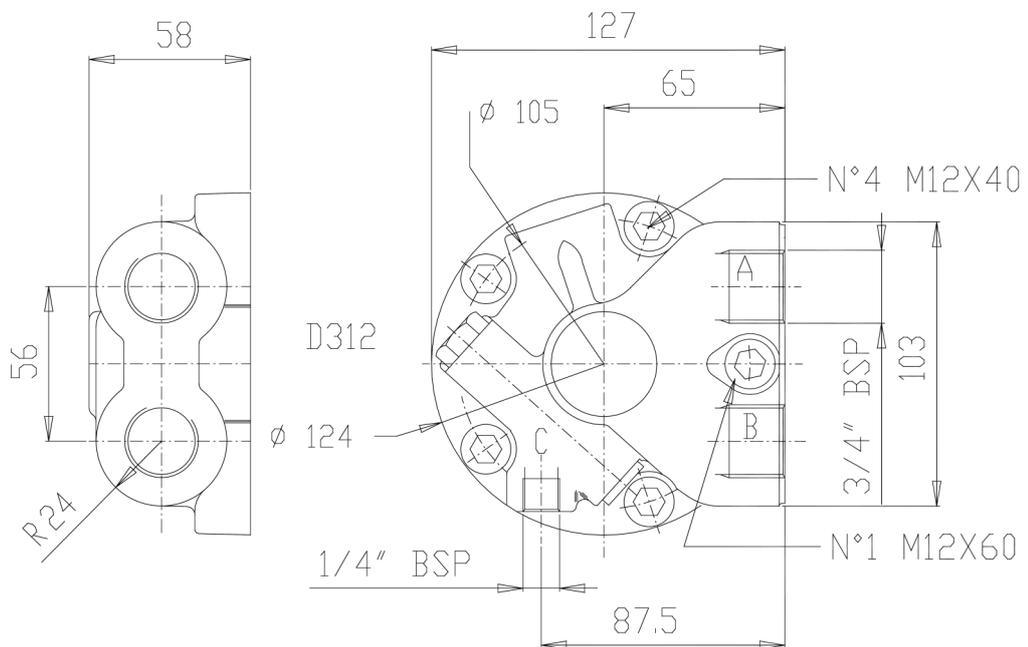
Distributor with ports 3/4" BSP, with purge valve 20 lit. 20 bar.

Details

	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 4.5 kg

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
DBM		GM05, GM1, GM2, GM3, GM4, GM5A P05, P1, P2
C		Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C		
K		

**D313**

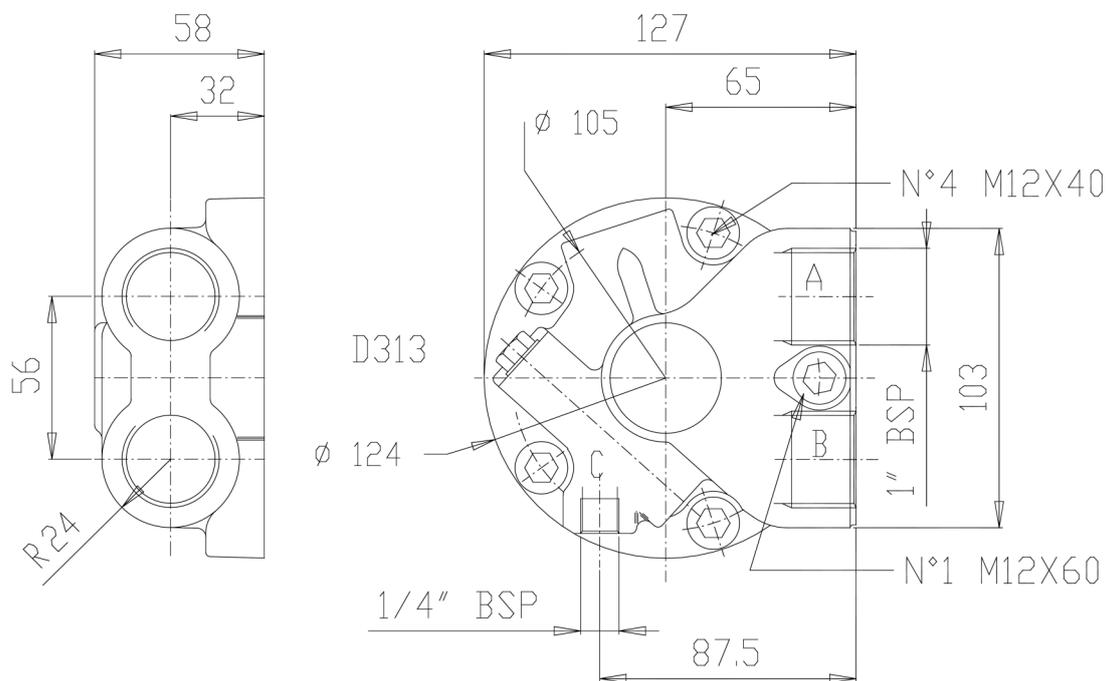
Distributor with ports 1" BSP, with shuttle valve for high pressure pilot.

Details

	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 4.5 kg

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
DBM		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2
C		Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2
K		GK3(A), GFK3(A), GK4, GFK4

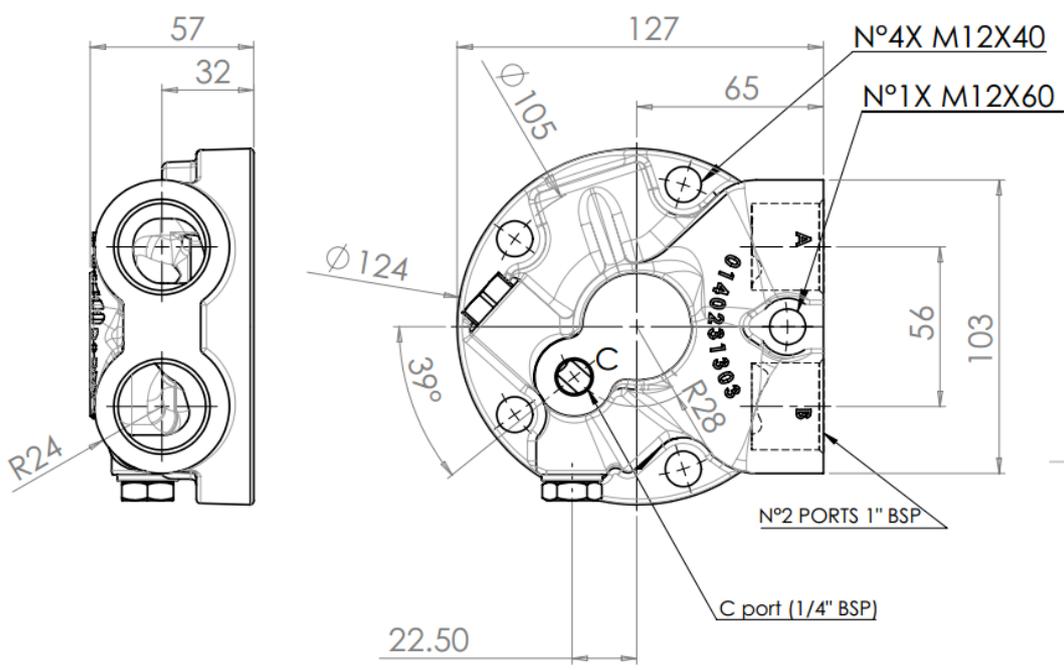
**D314**

Details

Distributor with ports 3/4" BSP, with anti-cavitation valve.

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400
Mass 4.5 kg			

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
DBM		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2
C		Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2
K		GK3(A), GFK3(A), GK4, GFK4
J, JX, JD60, JY		

**D316**

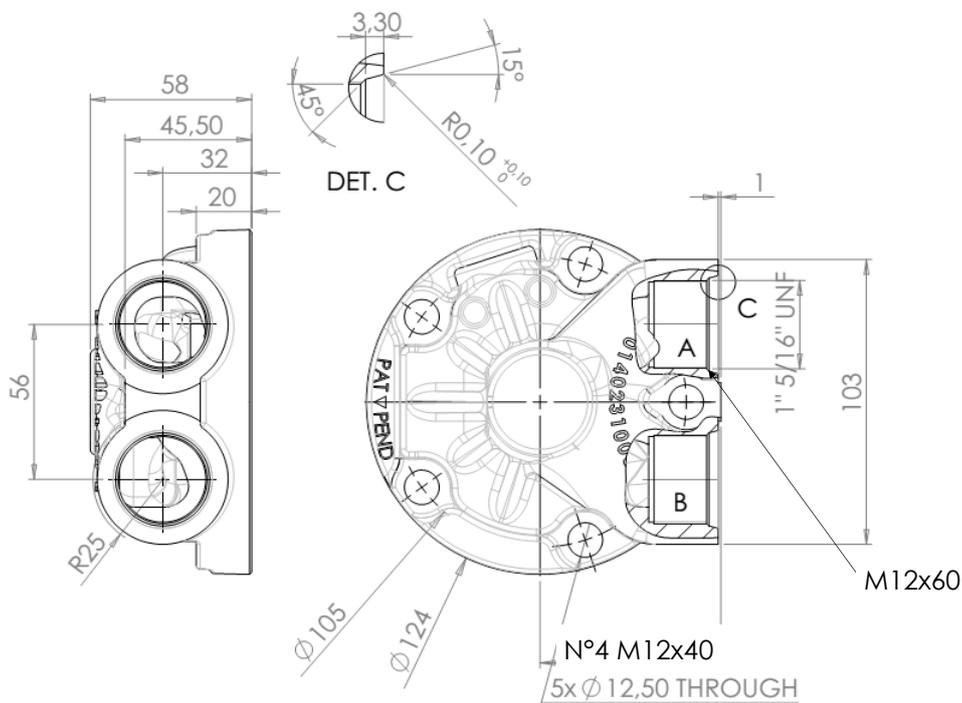
Distributor with ports 1" 5/16" UNF .

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DBM	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C	
K	

**D320**

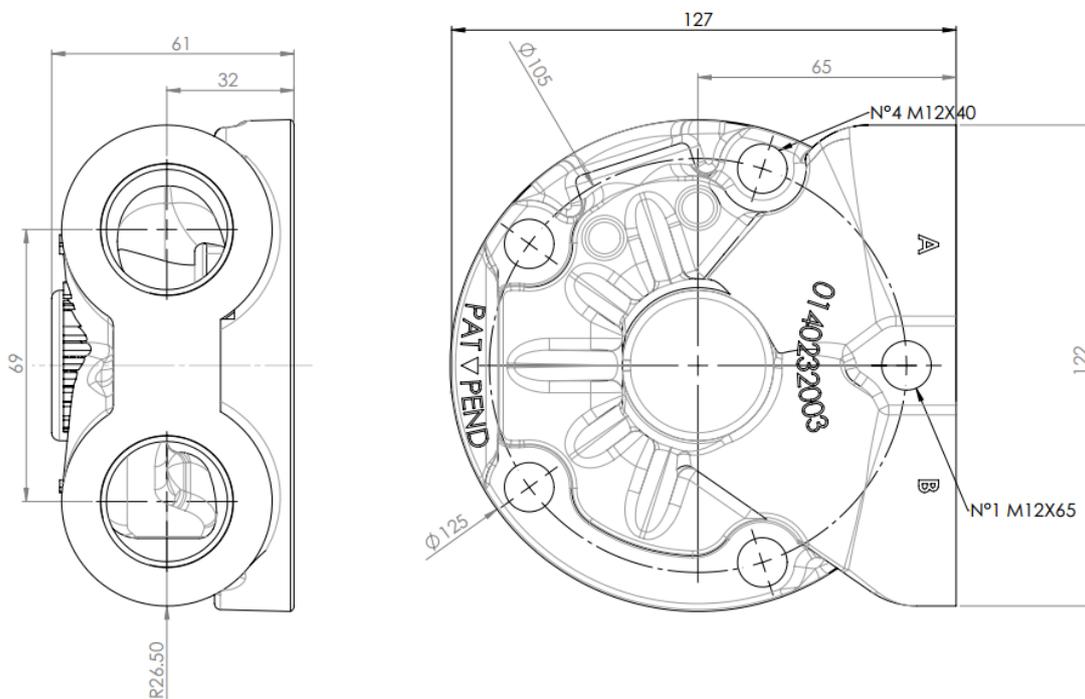
Details

Distributor with ports 1" BSP .

* Cont.	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	300	350	200
Peak.	500	450	400

Mass 4.5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DBM	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C	

**D322**

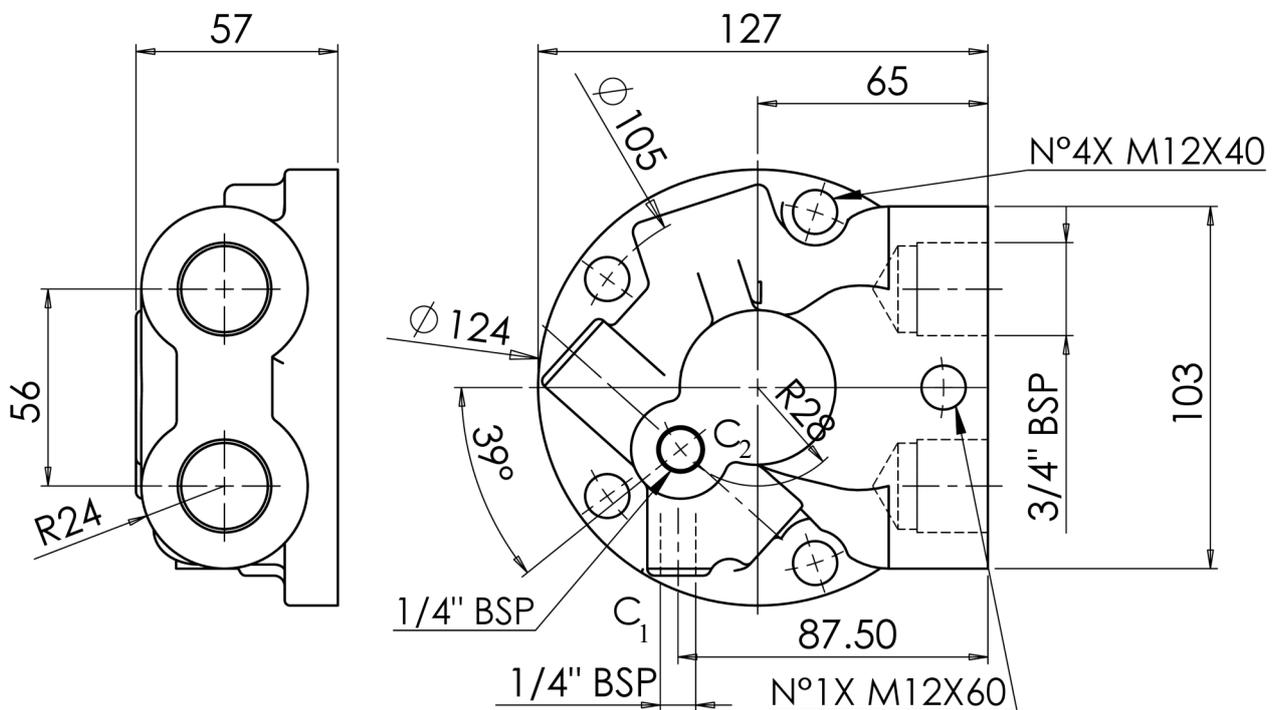
Distributor with ports 3/4" BSP, with anti-cavitation valve and double pilot port C1 radial and C2 axial.

Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont.	350	150
Peak.	450	300

Mass 5 kg

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
DBM		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2
C		Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4

**D40**

Distributor with ports 1" BSP.

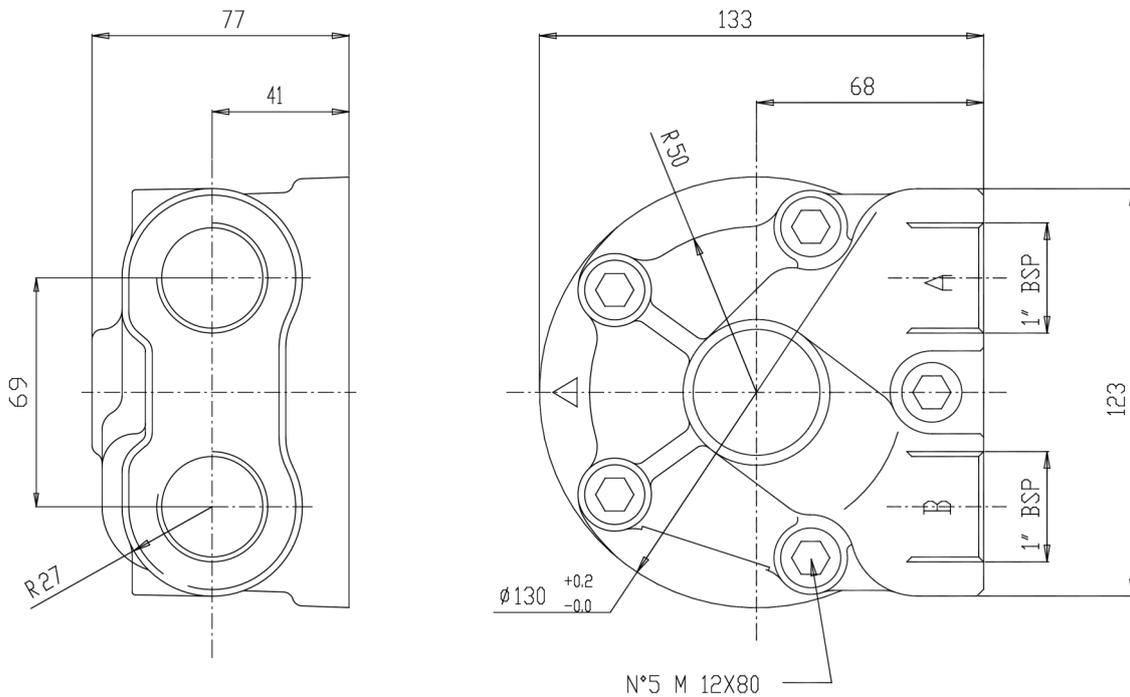
STANDARD ON: GM05, GM1, GM2, GM3, GM4, GM5A, P1, P2, BD1, BD2, BD3, TF1.5, TF2.5, GK3(A), GFK3(A), GK4, GFK4, BDK3(A), BDFK3(A), BDK4, BDFK4

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	1600	350	200
Peak.	2400	450	400

Mass 5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
C	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
K	
J, JX, JD60, JY	
HU	

**D47**

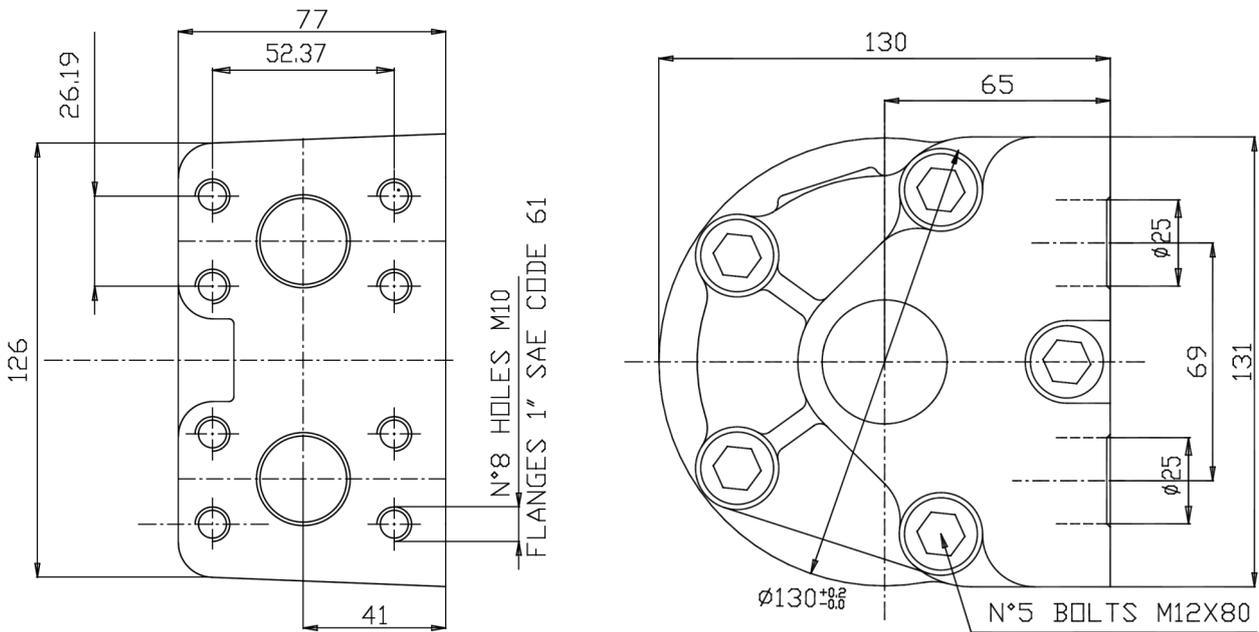
Distributor with ports 1" SAE 3000 psi.

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	1600	350	200
Peak.	2400	450	400

Mass 5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
DGM	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
C	
K	
J, JX, JD60, JY	
HU	

### D47R

Distributor with ports 1" SAE 6000 psi.

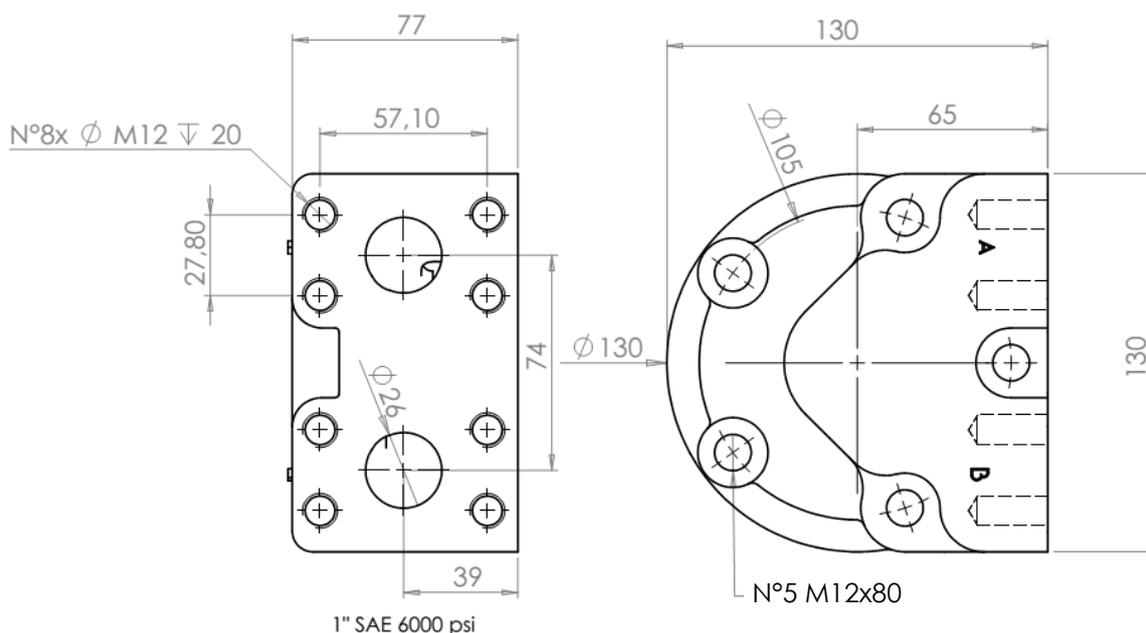
STANDARD ON: GS05, GS1, GS2

Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont. 1600	400	200
Peak. 2400	450	400

Mass 5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
C	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
K	
J, JX, JD60, JY	
HU	

**D47D**

Distributor with ports 1" SAE 6000 psi, with the hydraulic valve for the pilot of the dual displacement:  
 Minimum pressure for the change displacement: 15 bar  
 As a standard is predisposed for slow change, as an options is available the fast change "FC".

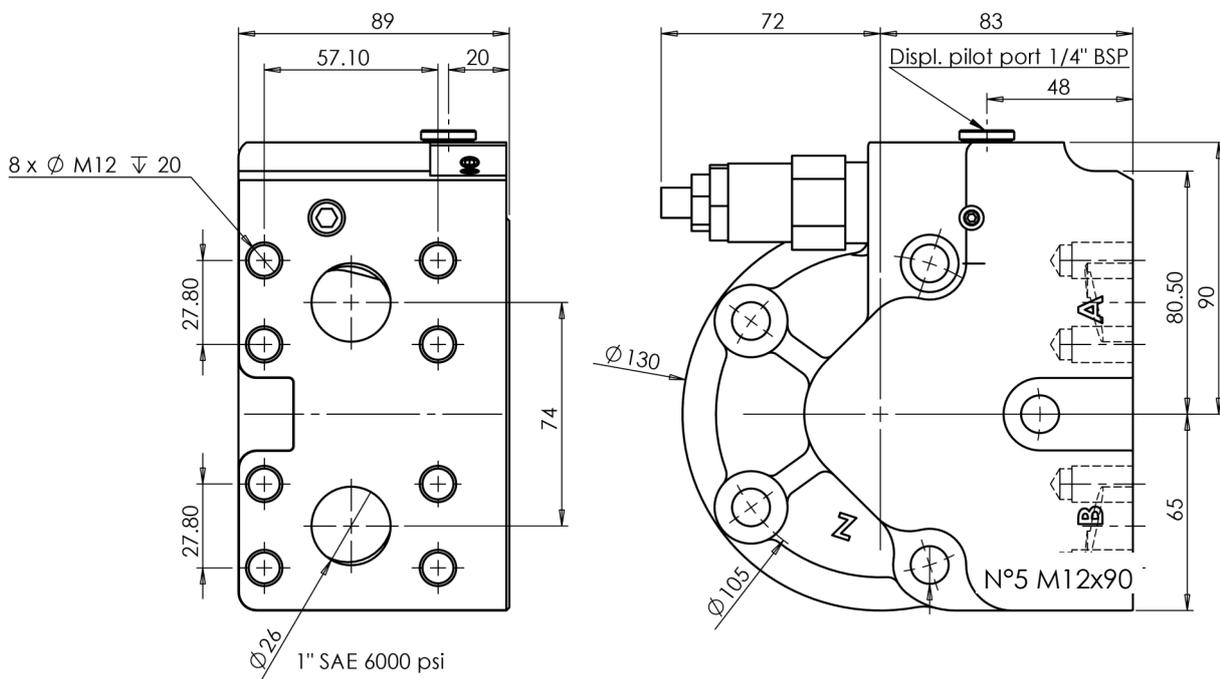
STANDARD on: BD1A, TD1.5, TD2.5, BDK4, BDFK4

Details

	Speed	Pressure	Flow
*	[rpm]	[bar]	[l/min]
Cont.	1600	400	200
Peak.	2400	450	400

Mass 7.5 kg

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
K		BD1(A), BD2 TD1.5, TD2.5 BDK3(A), BDFK3(A), BDK4, BDFK4
J, JX, JD60, JY		
HU		
PI		
VPI		

**D47V**

Distributor with ports 1" SAE 6000 psi, with electrical proportional valve for pilot the displacement:  
Voltage: 12 Volt

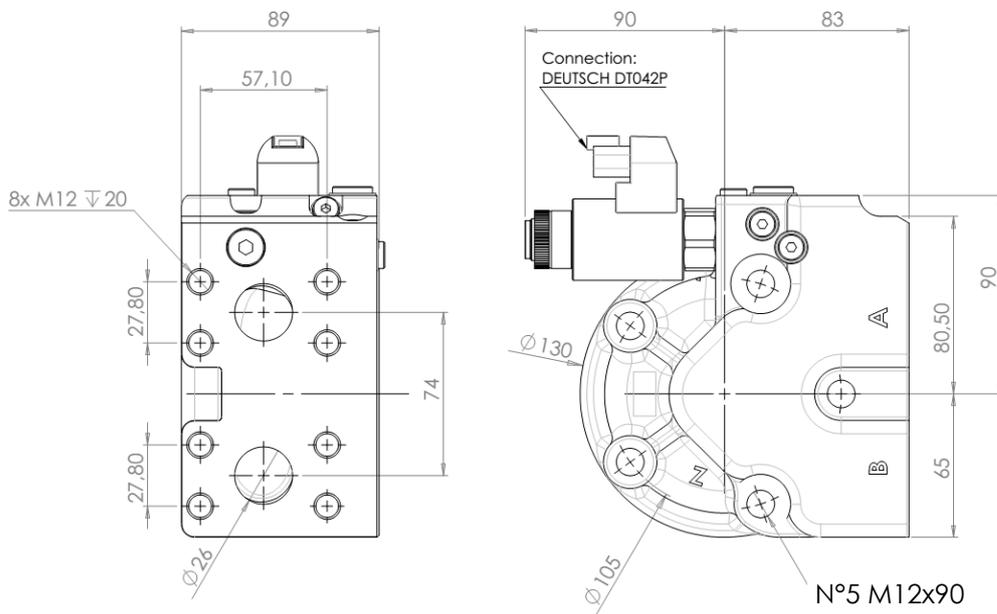
STANDARD ON: BV1(A), BV2, TV1.5, TV2.5, BVK3(A), BVFK3(A), BVK4, BVFK4

Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont.	1600	400
Peak.	2400	400

Mass 7.5 kg

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
K		BV1(A), BV2 TV1.5, TV2.5 BVK3(A), BVFK3(A), BVK4, BVFK4
HU		
V24		
OV		

**D48**

Distributors with ports 1" BSP with double sliding spool pressure relief valves:

Maximum calibration: 420 bar.

Standard calibration 350 bar.

Maximum Flow rate limit valve: 150 l/min

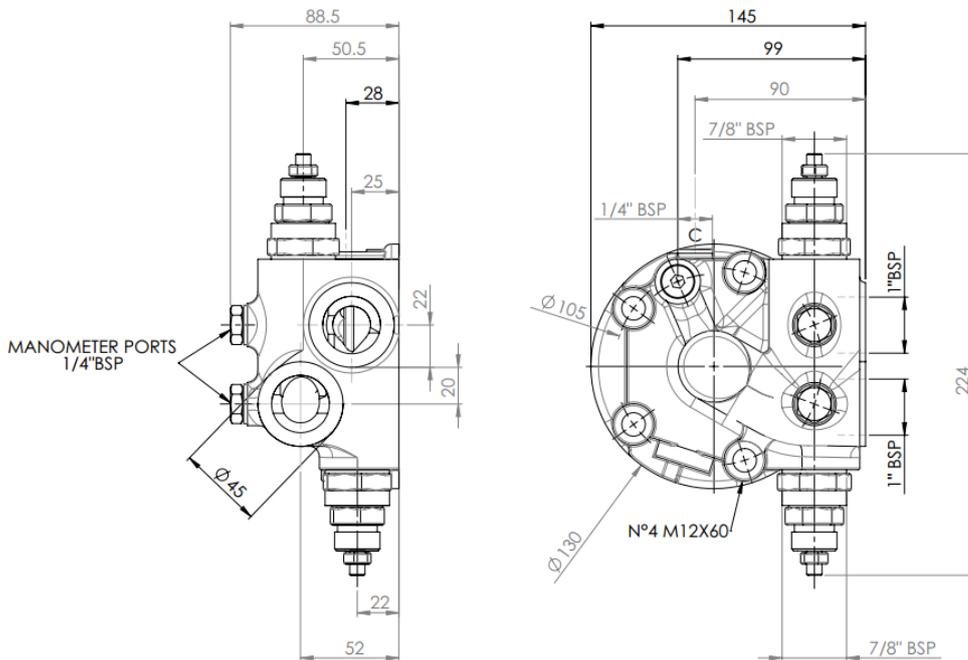
Details

	Speed	Pressure	Flow
*	[rpm]	[bar]	[l/min]
Cont.	1600	**300	200
Peak.	2400	**420	400

Mass 6 kg

\* Please check the performance of the motor selected.

\*\* The pressure limit depends by the type of the valve incorporated.



OPTIONS	A	B	MOUNTABLE ON
C			<p>GM05, GM1, GM2, GM3, GM4, GM5A P1, P2</p> <p>Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4</p>
K			
J, JX, JD60, JY			
HU			

**D481**

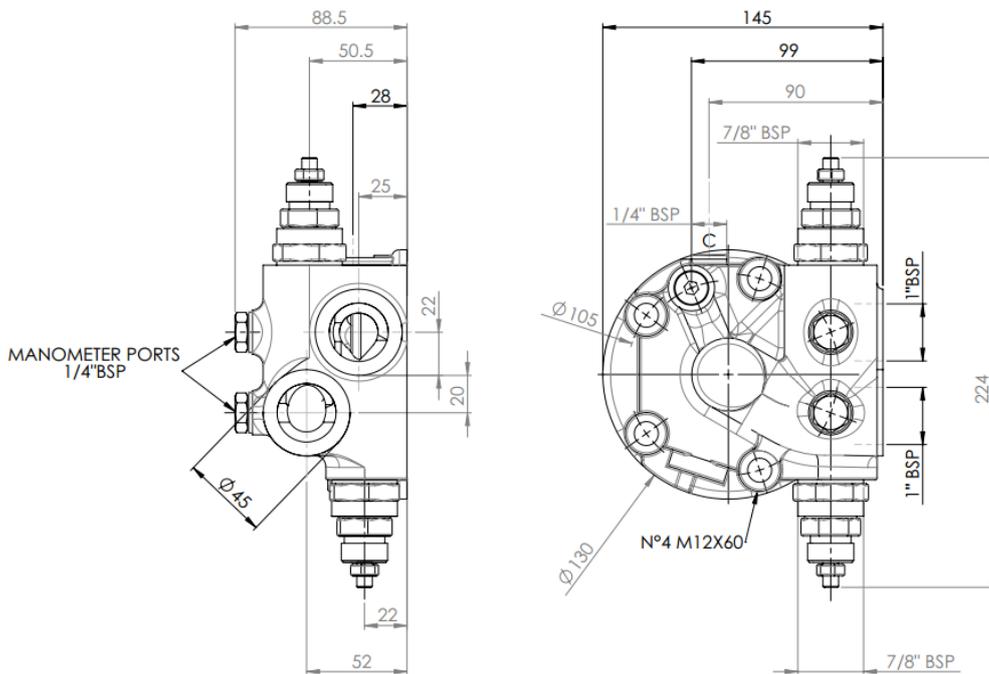
Distributors with ports 1" BSP with double sliding spool pressure relief valves and shuttle valve, 20 lit/min at 20 bar:  
 Maximum calibration: 420 bar.  
 Standard calibration 350 bar.  
 Maximum Flow rate limit valve: 150 l/min

Details

	Speed [rpm]	Pressure [bar]	Flow [l/min]
*			
Cont.	1600	**300	200
Peak.	2400	**420	400

Mass 6 kg

- \* Please check the performance of the motor selected.
- \*\* The pressure limit depends by the type of the valve incorporated.



OPTIONS	A C B	MOUNTABLE ON
C		GM05, GM1, GM2, GM3, GM4, GM5A P05, P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
K		
J, JX, JD60, JY		
HU		

**D49**

Distributor with ports 1" BSP with double sliding spool pressure relief valves:  
 Maximum setting pressure: 250 bar.  
 Standard setting: 200 bar.  
 Maximum Flow rate limit valve: 80 l/min.

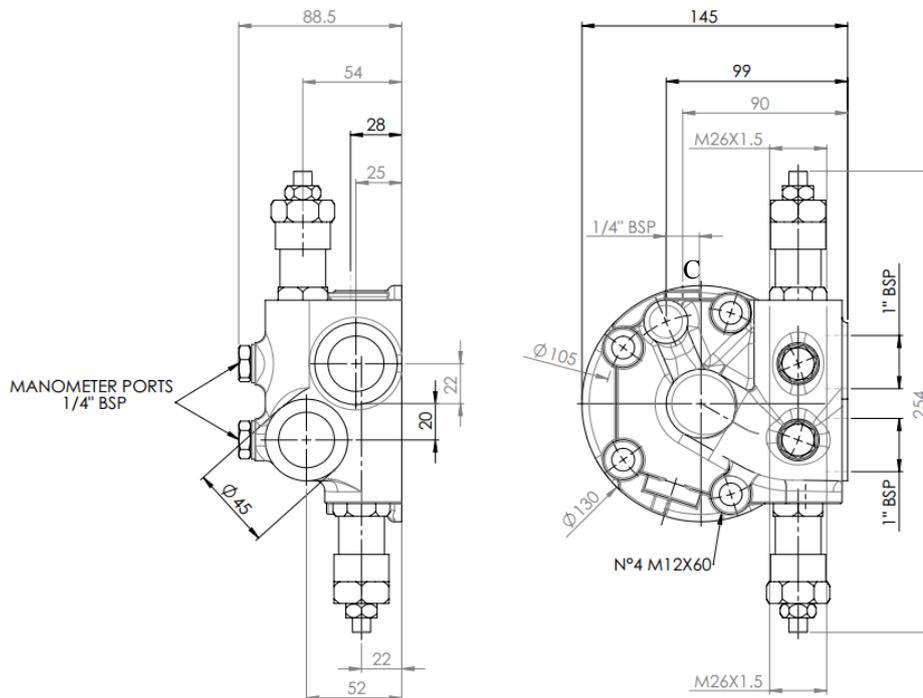
Details

	Speed [rpm]	Pressure [bar]	Flow [l/min]
*			
Cont.	1600	**250	200
Peak.	2400	**250	400

Mass 6 kg

\* Please check the performance of the motor selected.

\*\* The pressure limit depends by the type of the valve incorporated.



OPTIONS	A	B	MOUNTABLE ON
C			GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
K			
J, JX, JD60, JY			
HU			

**D491**

Distributor with ports 1" BSP with double sliding spool pressure relief valves and shuttle valve, 20 lit/min at 20 bar:  
 Maximum setting pressure: 250 bar.  
 Standard setting: 200 bar.  
 Maximum Flow rate limit valve: 80 l/min.

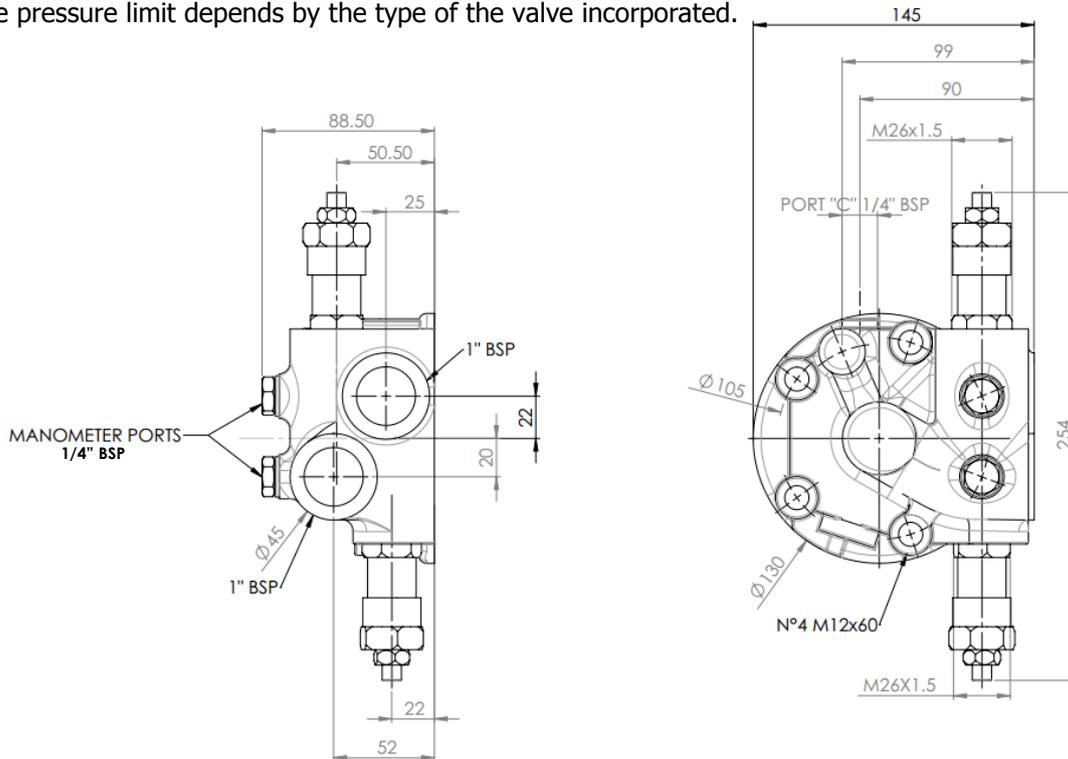
Details

	Speed	Pressure	Flow
*	[rpm]	[bar]	[l/min]
Cont.	1600	**250	200
Peak.	2400	**250	400

Mass 6 kg

\* Please check the performance of the motor selected.

\*\* The pressure limit depends by the type of the valve incorporated.



OPTIONS		MOUNTABLE ON
C		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2
K		Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
J, JX, JD60, JY		
HU		

## D416

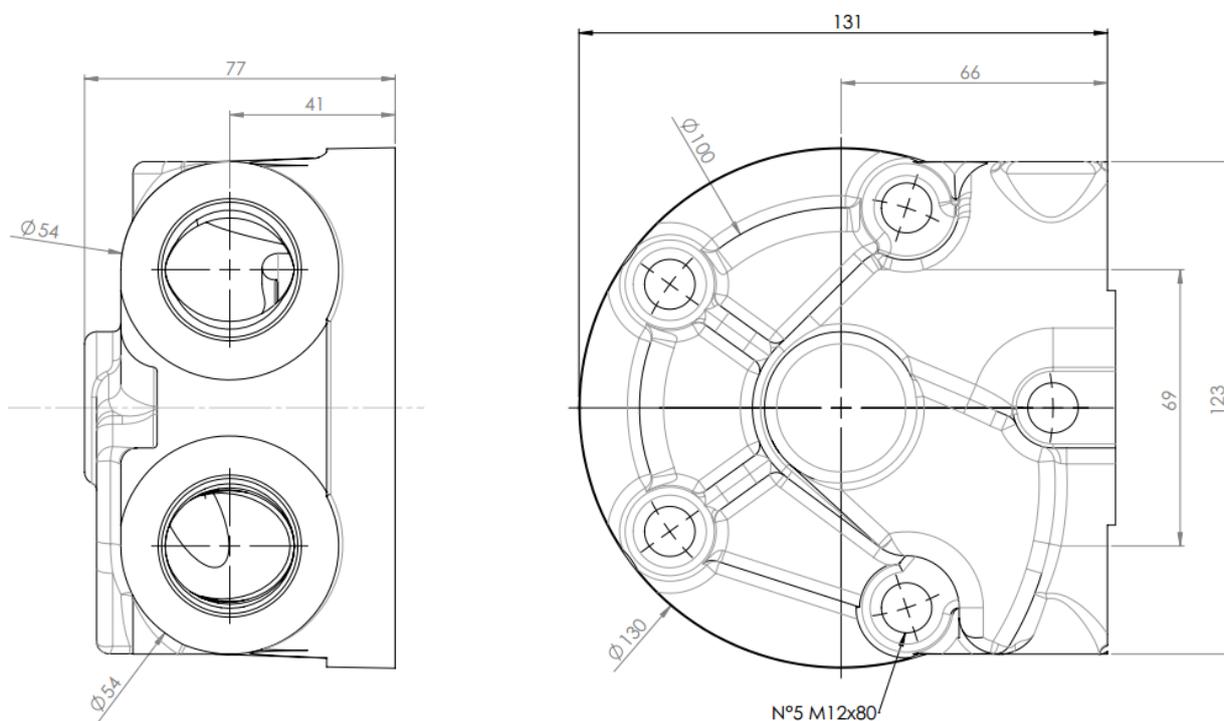
Distributor with ports 1" BSP.

### Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont. 1600	350	200
Peak. 2400	450	400

Mass 5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
C	GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4
K	
HU	

**D504**

Distributor with ports 1" BSP, with double overcentre valve and shuttle valve for high pressure pilot:  
 Pilot ratio: 10:1  
 Max. flow : 120 lit/min  
 Setting : 100-350 bar  
 Reccomended setting pressure: 1.3 x work pressure  
 Standard setting: 210 bar

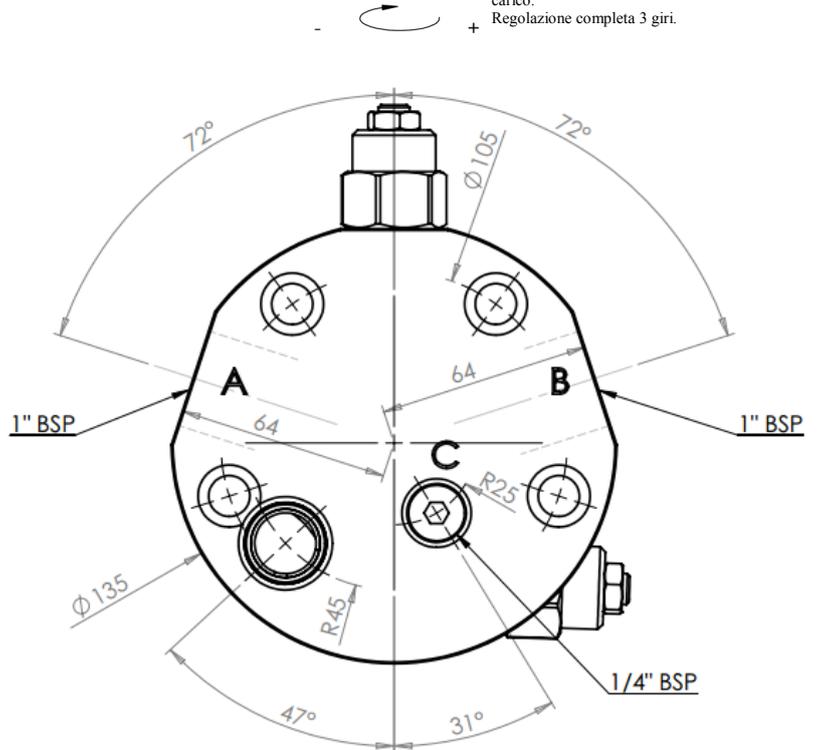
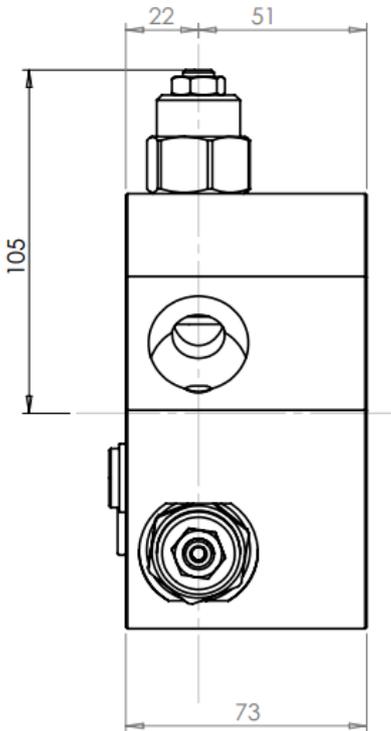
Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont.	1600	120
Peak.	2400	120

Mass 5 kg

\* Please check the performance of the motor selected.

Girare la vite in senso orario per ridurre la taratura e regolare il carico.  
 Regolazione completa 3 giri.



OPTIONS		MOUNTABLE ON
		GM05, GM1, GM2, GM3, GM4, GM5A P05, P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4

**D51**

Distributor with ports 1" BSP, with overcentre valve and shuttle valve for high pressure pilot:  
 Pilot ratio: 10:1  
 Max. flow : 120 lit/min  
 Setting : 100-350 bar  
 Reccomended setting pressure: 1.3 x work pressure  
 Standard setting: 210 bar

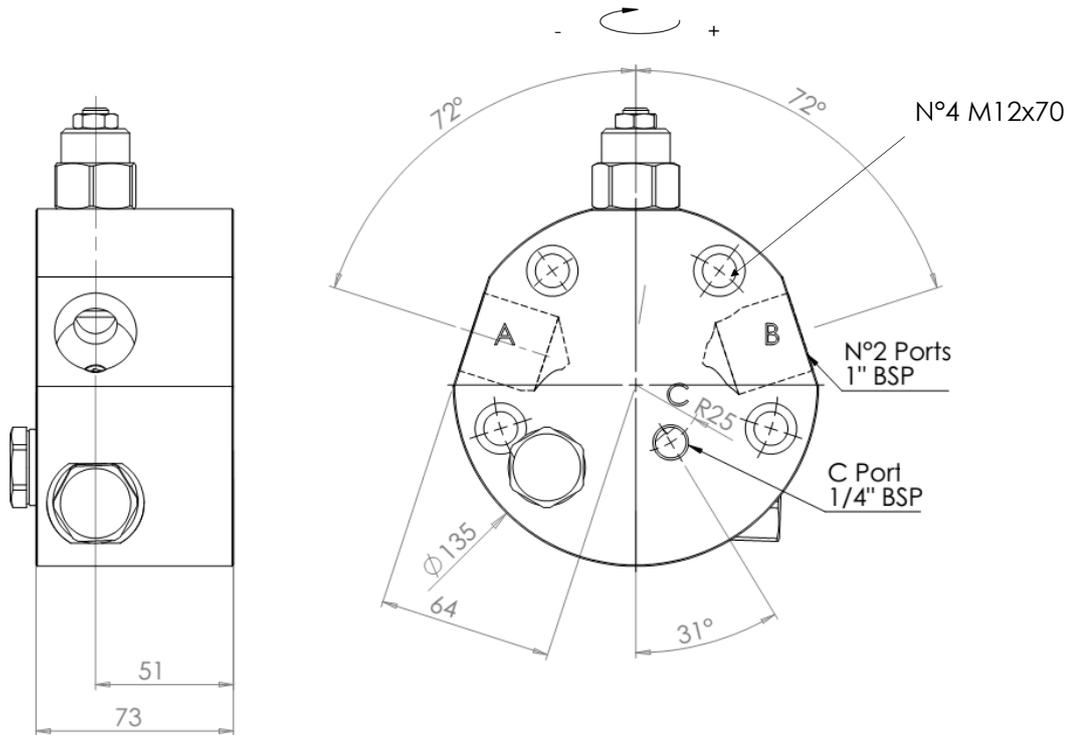
Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	1600	300	120
Peak.	2400	350	120

Mass 5 kg

\* Please check the performance of the motor selected.

Girare la vite in senso orario per ridurre la taratura e regolare il carico. Regolazione completa 3 giri.



OPTIONS		MOUNTABLE ON
		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2
		Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4

**D510**

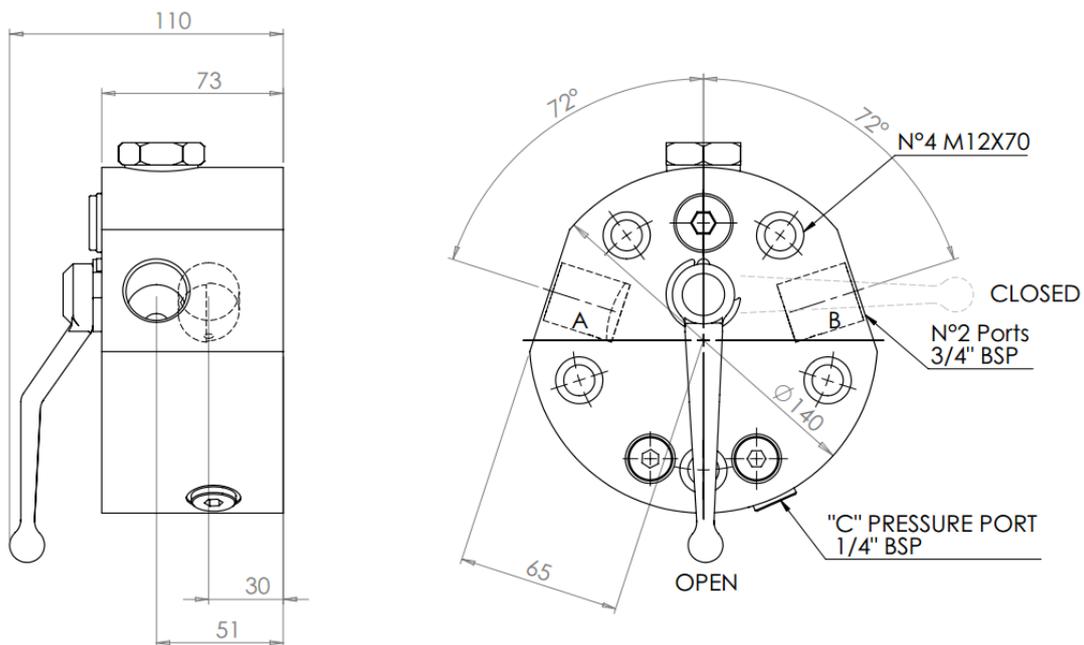
Distributor with ports 3/4" BSP.  
Freewheeling type "C" pag.10.

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	1600	300	200
Peak.	2400	450	400

Mass 5 kg

\* Please check the performance of the motor selected.



OPTIONS	A B	MOUNTABLE ON
		GM05, GM1, GM2, GM3, GM4, GM5A P1, P2  Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4

**D524**

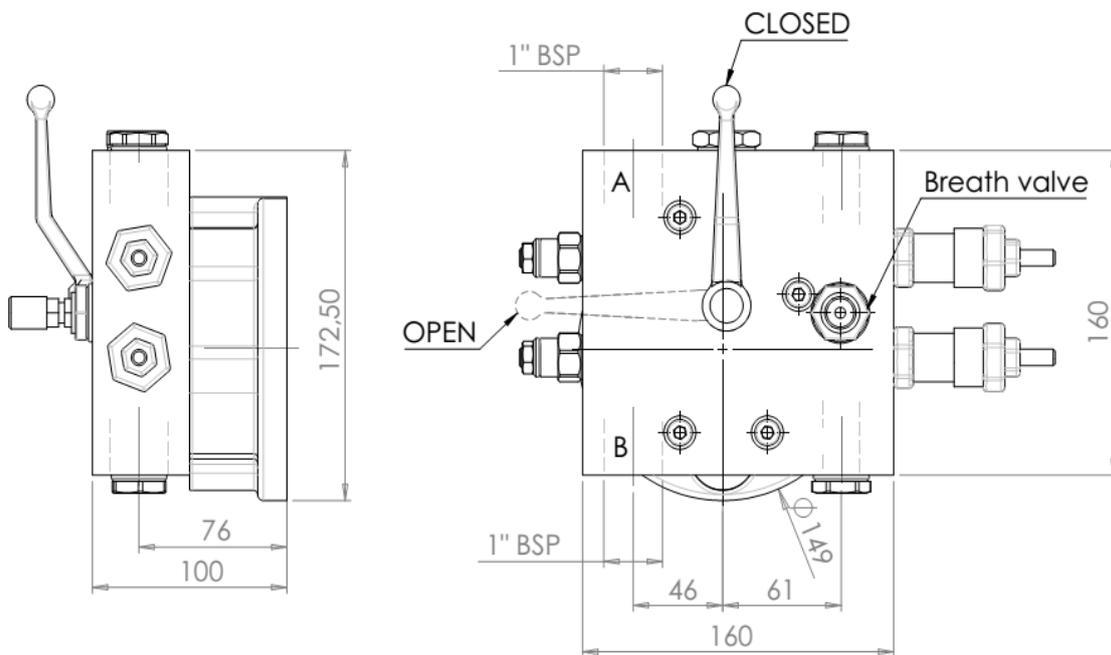
Distributor with ports 1" BSP with double overcentre valve , double sliding spool pressure relief valves, relief valve and with shuttle valve for high pressure pilot:  
Pilot ratio: 4.5:1  
Minimum setting pressure: 140-350 bar  
Recommended setting pressure: 1.3 x work pressure  
Standard setting: 210 bar

Freewheeling type "C" pag.10.

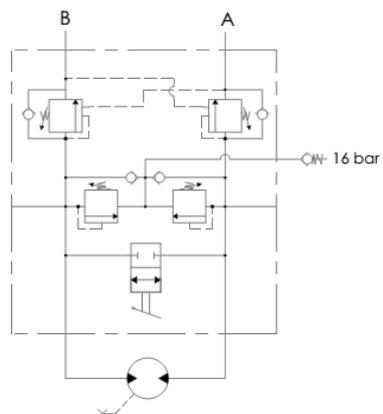
\* Please check the performance of the motor selected.

Details

* Cont.	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	1600	300	60
Peak.	2400	350	120
Mass 5 kg			



OPTIONS	MOUNTABLE ON
	<p>GM05, GM1, GM2, GM3, GM4, GM5A P1, P2</p> <p>Only with DBM: GS05, GS1, GS2, GS3, GS4, GS5A BD1, BD2 GK3(A), GFK3(A), GK4, GFK4</p>



**D90**

Distributor with ports 1" 1/2 SAE 6000 psi.

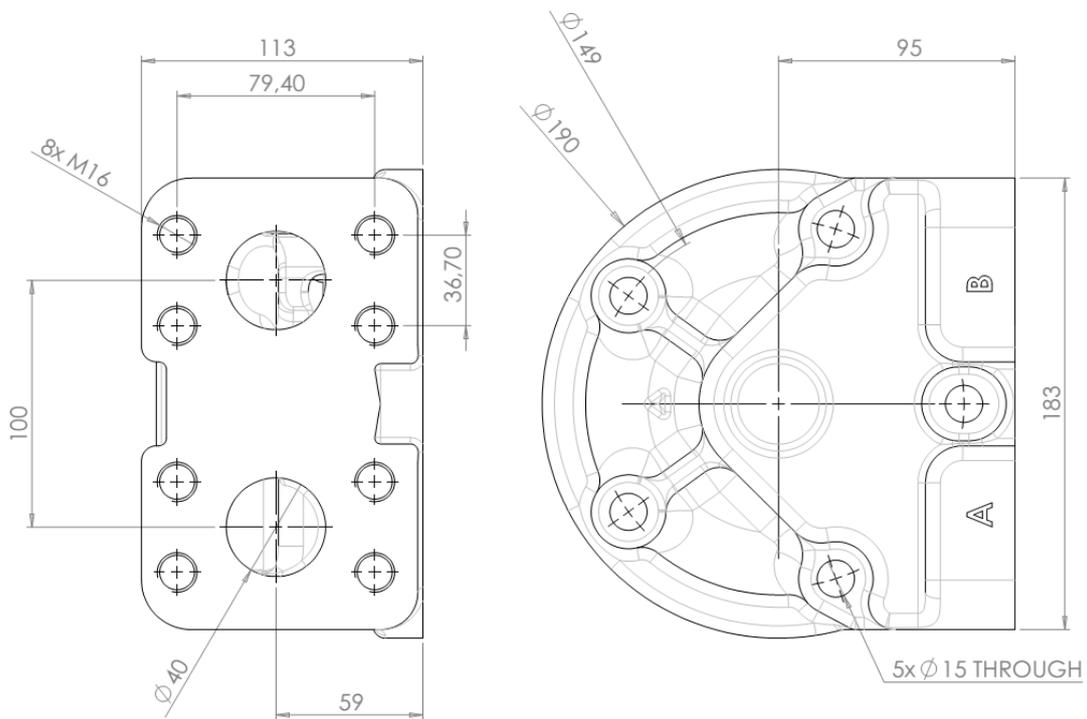
STANDARD ON: GM6, BD5, GS3, GS4, GS5A, L7B

Details

*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	700	350	500
Peak.	1200	420	1000

Mass 14.5 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
K	GM3, GM4, GM5A, GM6 GS3, GS4, GS5A, GS6A L7B S7B BD5, BD6
J	
HU	

**D907**

Distributor with ports 1" 1/2 SAE 6000 psi.

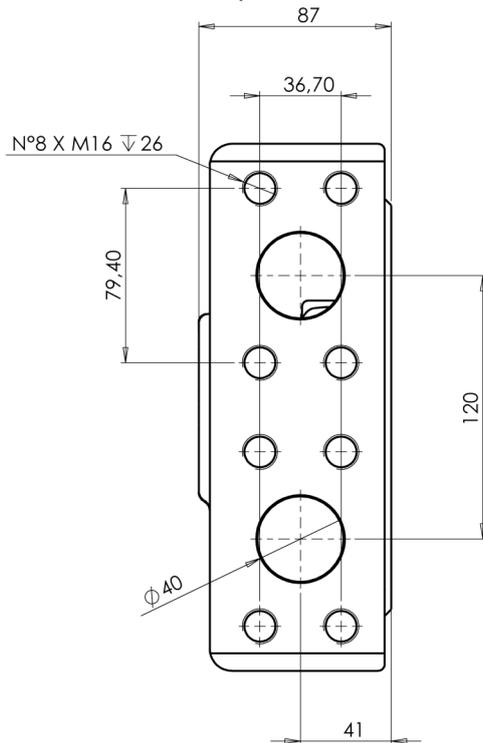
STANDARD ON: TF3.5, TS8F(w).

Details

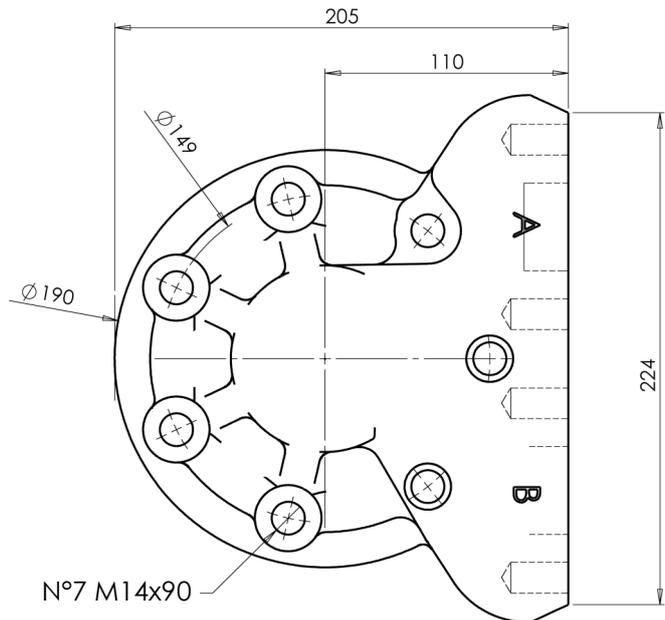
*	Speed [rpm]	Pressure [bar]	Flow [l/min]
Cont.	700	400	500
Peak.	1200	450	1000

Mass 13.5 kg

\* Please check the performance of the motor selected.



1" 1/2 SAE 6000psi



OPTIONS	MOUNTABLE ON
K	TF3.5 TS8F(W)
J	
HU	

**D907D**

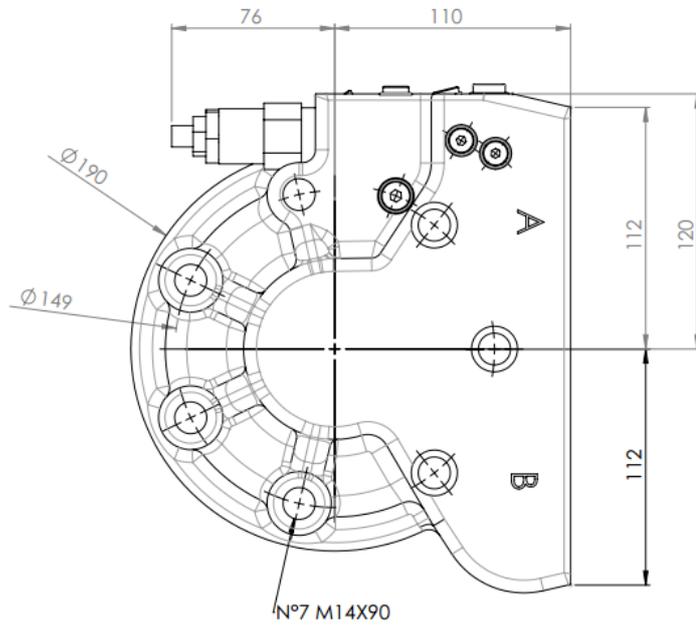
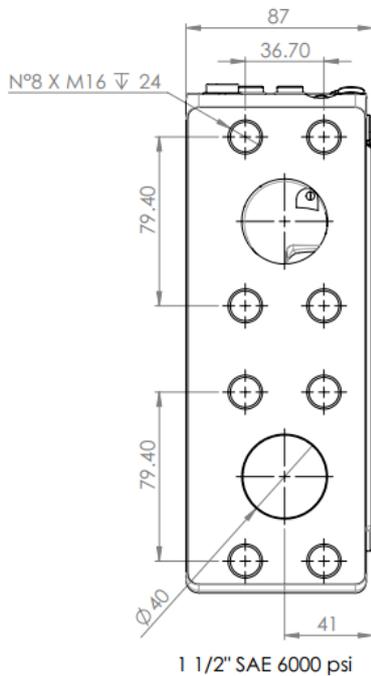
Distributor with ports 1" 1/2 SAE 6000 psi with the hydraulic valve for the pilot of the dual displacement:  
 Minimum pressure for the change displacement: 15 bar.  
 Different calibration on request.  
 As a standard this motor is predisposed for a slow change displacement, as an option is available the fast changing version "FC".

Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont.	400	500
Peak.	450	1000

Mass 14 kg

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
K		<p>TD3.5 TS8DF(W)</p>
J		
HU		
PI		
VPI		
FC		

**D907V**

Distributor with ports 1" 1/2 SAE 6000 psi, with electrical proportional valve for pilot the displacement:  
Voltage: 12 Volt

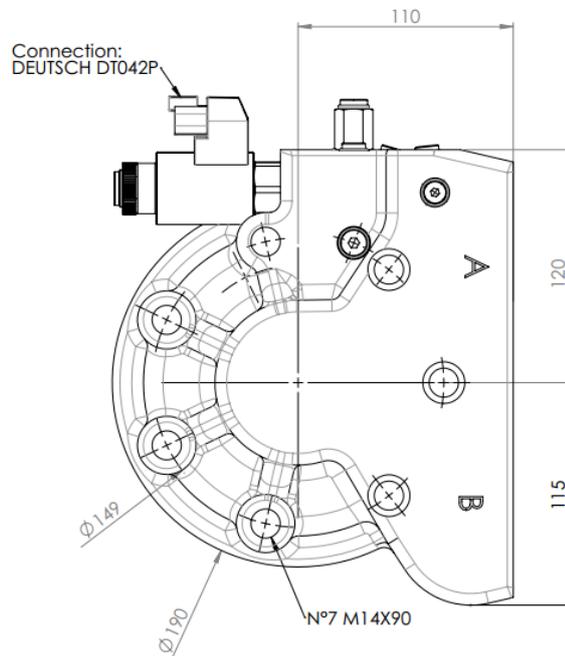
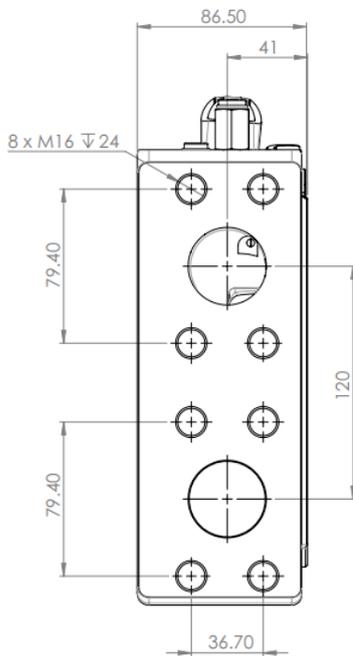
STANDARD ON: TV3.5, TS8VF(W)

As a standard this motor is predisposed for a fast change displacement, as an option is available the slow changing version "SC".

Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont. 1400	400	500
Peak. 1800	450	1000
Mass 14 kg		

\* Please check the performance of the motor selected.



OPTIONS		MOUNTABLE ON
K		TD3.5 TS8DF(W) TV3.5 TS8VF(W)
HU		
V24		
OV		
SC		

**D250**

Distributor with ports 2" SAE 6000 psi.

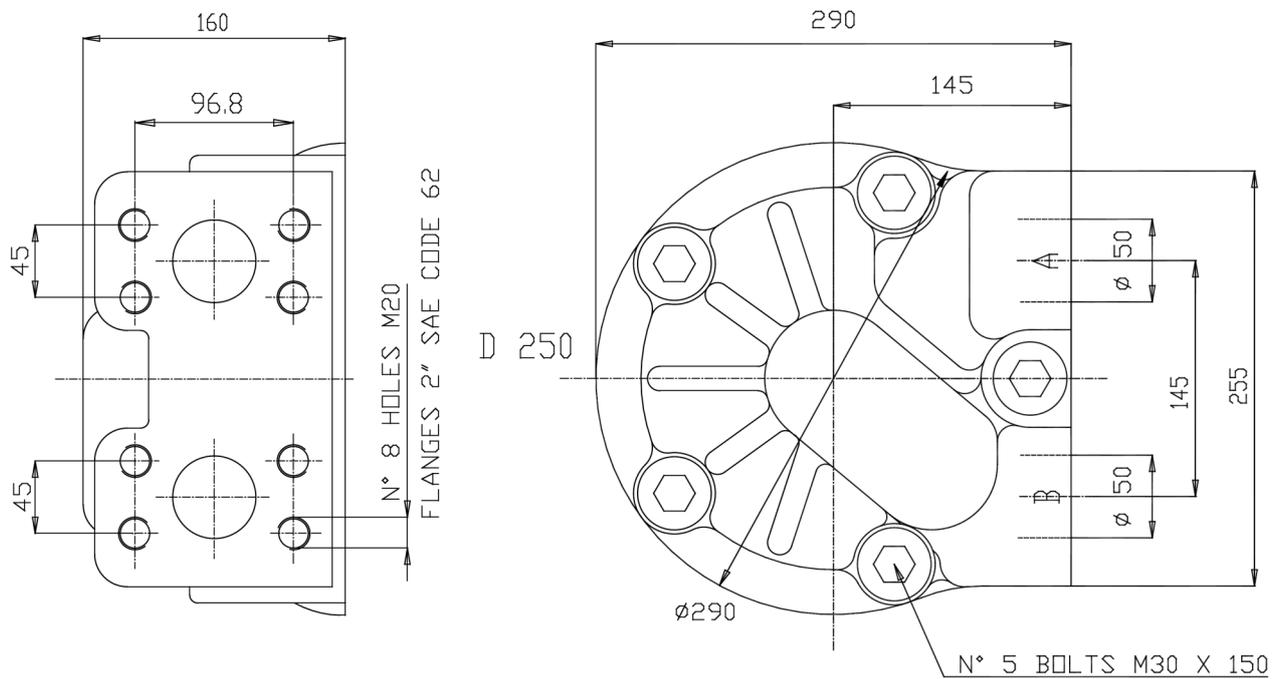
STANDARD ON: GS6A, L7B, L9, BD6, S7B, S9

Details

* Speed	Pressure	Flow
[rpm]	[bar]	[l/min]
Cont.	500	250
Peak.	1000	420

Mass 50 kg

\* Please check the performance of the motor selected.



OPTIONS	MOUNTABLE ON
J	GM6 GS6A L7B, L9 S7B, S9 BD6



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