CHARACTERISTICS OF THE MSI SERIES MOTORS

Motor model	Displacement (cc/rev)	Continuous max. speed (1) (rpm)	Intermittent max. speed (1) (rpm)	Max. flow absorbed (l/mn)	Torque (N.m/bar)	Torque at 350 bar (N.m)	Max. allowable pressure continuous / peak (bar)	Weight (kg)
MSI 28	27.7	6300	6900	175	0.44	154	400 / 450	11.5
MSI 32	32.1	6300	6900	202	0.51	179	400 / 450	11.5
MSI 41	41.1	5600	6200	230	0.65	229	400 / 450	11.5
MSI 50	50.3	5000	5500	252	0.80	280	400 / 450	19
MSI 63	63	5000	5500	315	1.00	351	400 / 450	19
MSI 80	80.4	4500	5000	362	1.28	448	400 / 450	26
MSI 90	90	4500	5000	405	1.43	501	400 / 450	26
MSI 108	108.3	4000	4400	433	1.72	603	400 / 450	26
MSI 108 R (2)	108.3	3400	4500	368	1.72	603	400 / 450	33
MSI 125	125.4	3400	4500	426	2.00	699	400 / 450	33

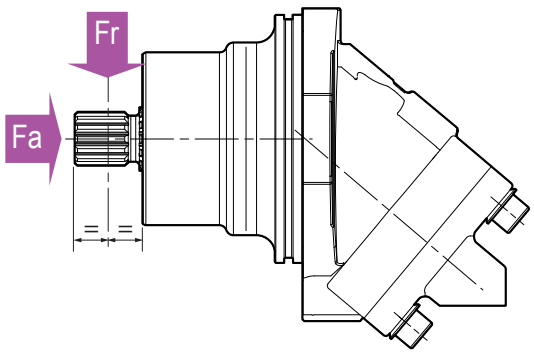
(1) For higher speeds, please contact us.
(2) The MSI 108 R is in the frame size of the MA 125.

►Acceptable forces applied to motor shaft

Motor model		28	32	41	50	63	80	90	108	108 R	125
Fr	N	6200	6500	7000	7500	9000	10500	11000	11500	12500	14500
Fa	N/bar *	28	30	40	40	50	60	67	80	80	86

Fr: radial force measured at mid point of length of shaft.
Fa: axial force which tends to push the shaft inwards.

* Differential pressure between A and B.
For other forces, please contact us.



Order code system of MSI series motors

MSI	...	B	...	L0	M1	.	.	SV
01	02	03	04	05	06	07	08	09

To obtain the code for your motor, complete the different parameters 02, 04, 07 and 08, in the table on the left according to the options you require (see table below).

Motor		
01	Semi-integrated motor	**MSI**

Displacement											
02		28	32	41	50	63	80	90	108	108 R	125	

Mounting flange		
03	2 bolts ISO 3019-2	**B**

Shaft												
04	DIN 5480 splined	W30	W30	W30	W30	W30	W40	W40	W40	W40	W45	**W1**
		-	-	-	-	W35	W35	W35	-	-	W40	**W2**

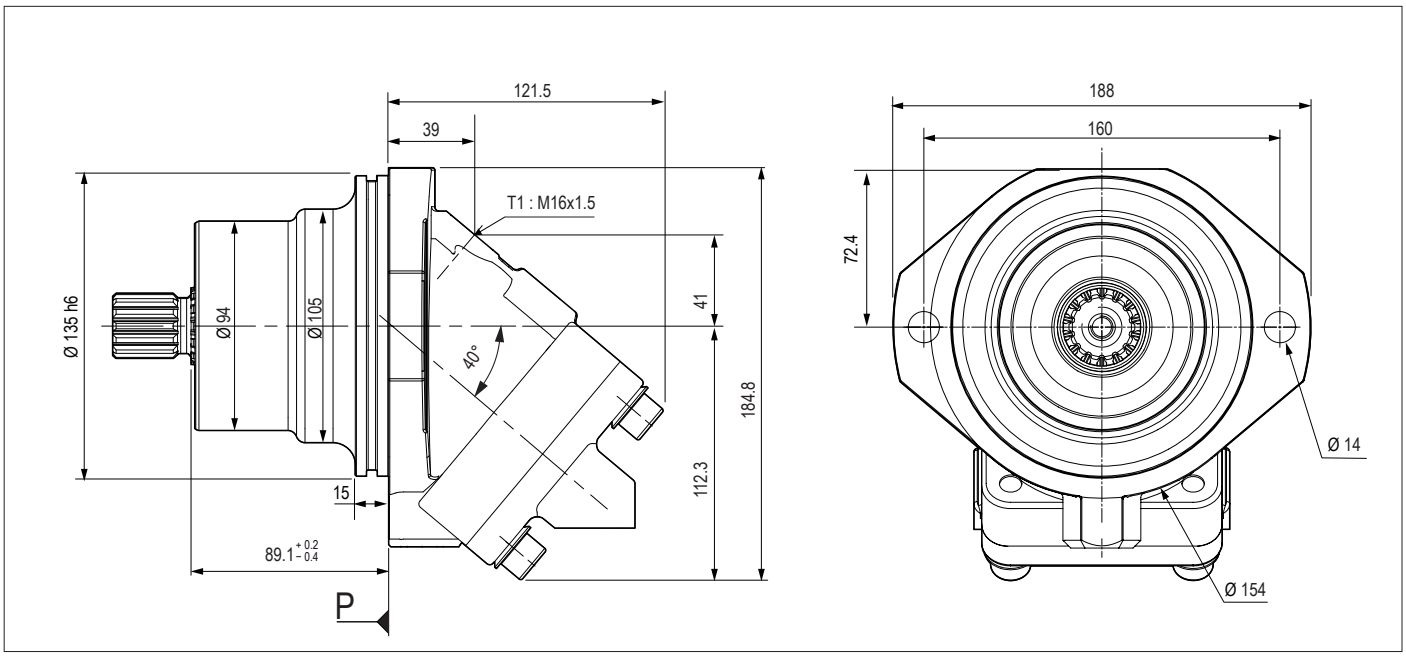
Inlet ports												
05	SAE flange ports, bottom	•	•	•	•	•	•	•	•	•	•	**L0**

Drain												
06		1	1	1	1	1	1	1	1	1	1	**M1**

Suitable for use of speed sensor												
07	Yes	•	•	•	•	•	•	•	•	•	•	**1**
	No	•	•	•	•	•	•	•	•	•	•	**0**

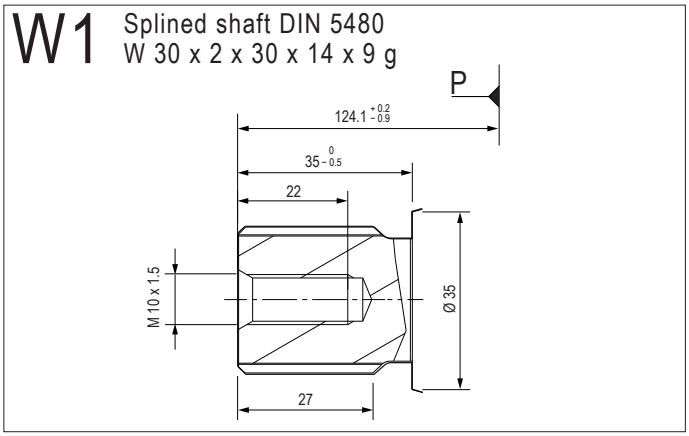
Speed sensor												
08	Yes	•	•	•	•	•	•	•	•	•	•	**1**
	No	•	•	•	•	•	•	•	•	•	•	**0**

Valves												
09	Without	•	•	•	•	•	•	•	•	•	•	**SV**



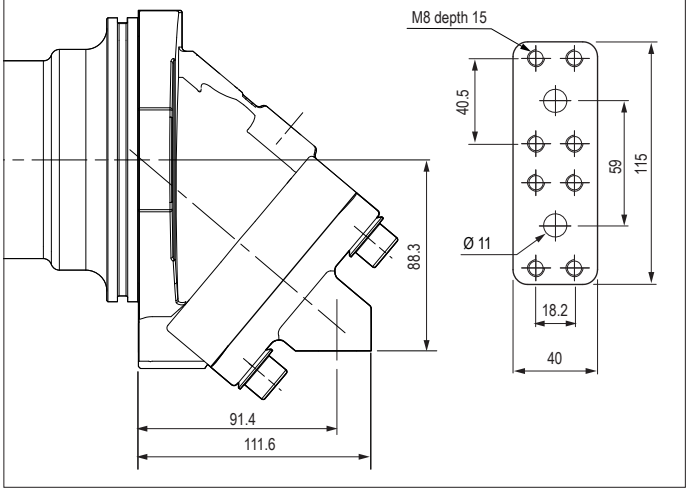
►Shaft end

W1 Splined shaft DIN 5480
W 30 x 2 x 30 x 14 x 9 g

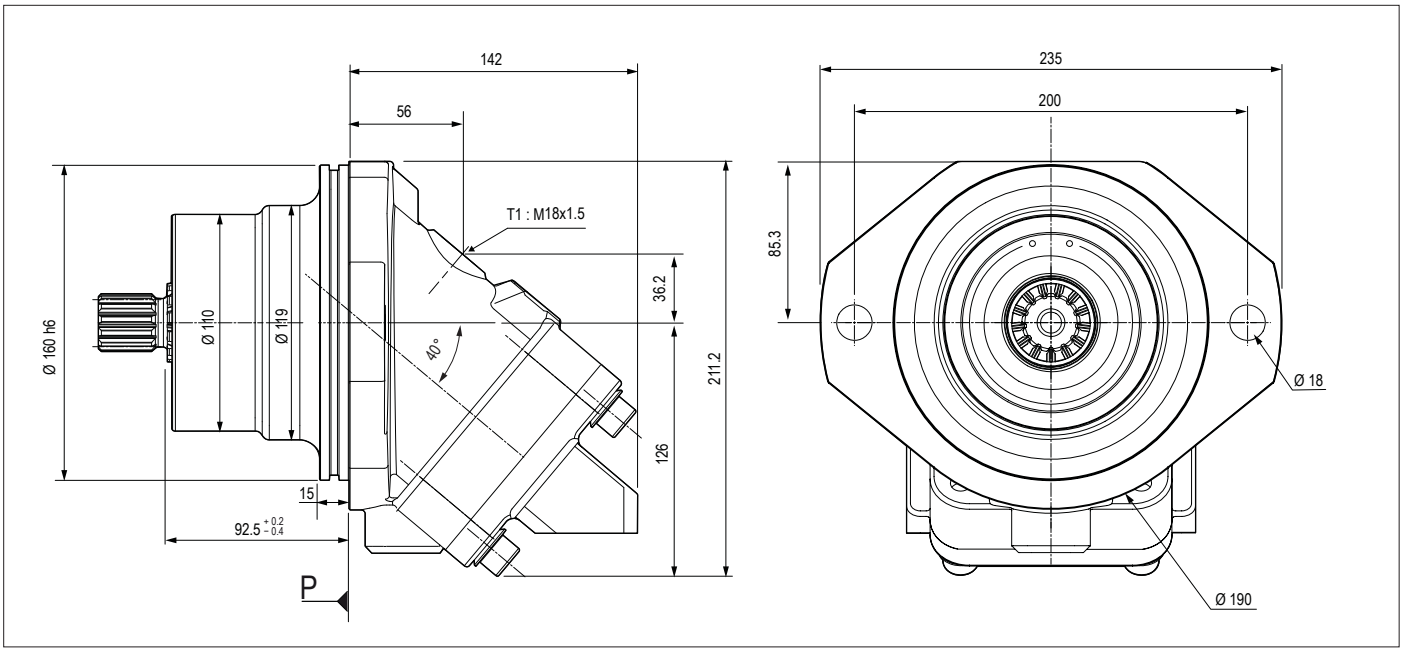


►Inlet ports

L0 SAE flange ports, bottom 40° A and B
SAE 1/2" 6000 psi

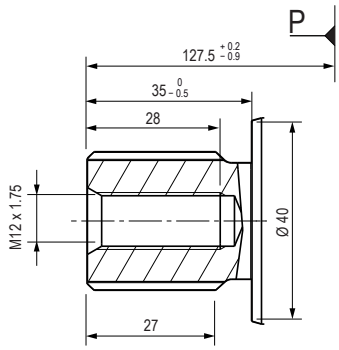


Dimensions in mm are given only as an indication.



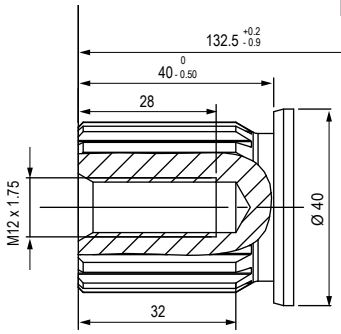
▶ Shaft end

W1 Splined shaft DIN 5480 W 30 x 2 x 30 x 14 x 9 g



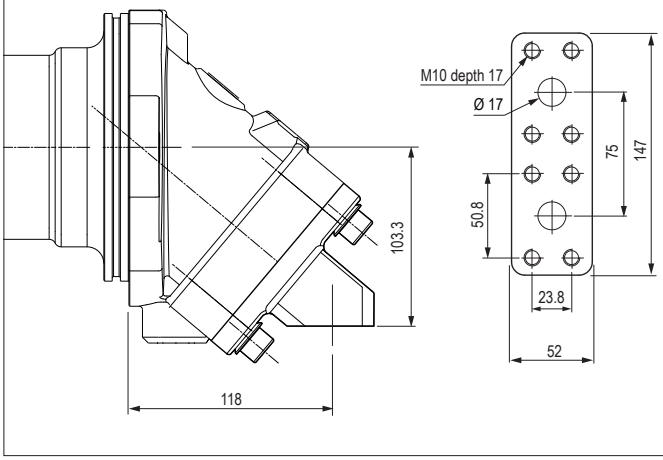
W2 Splined shaft DIN 5480 W 35 x 2 x 30 x 16 x 9 g

For MSI 63 only.

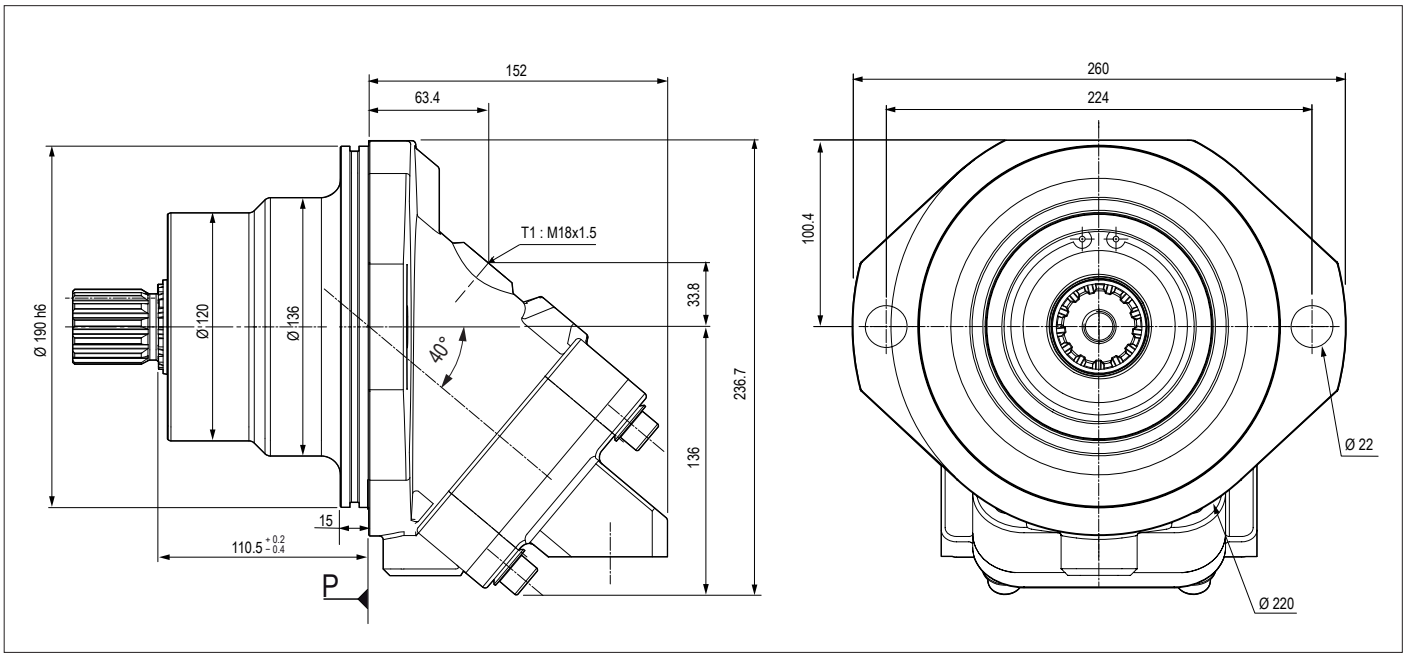


▶ Inlet ports

L0 SAE flange ports, bottom 40° A and B SAE 3/4" 6000 psi

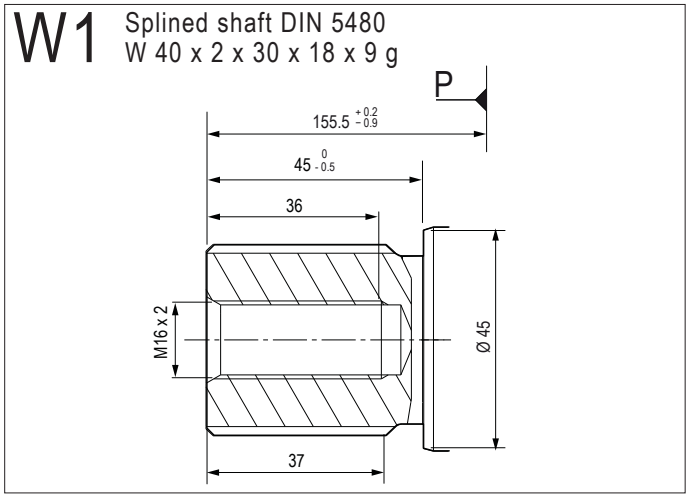


Dimensions in mm are given only as an indication.

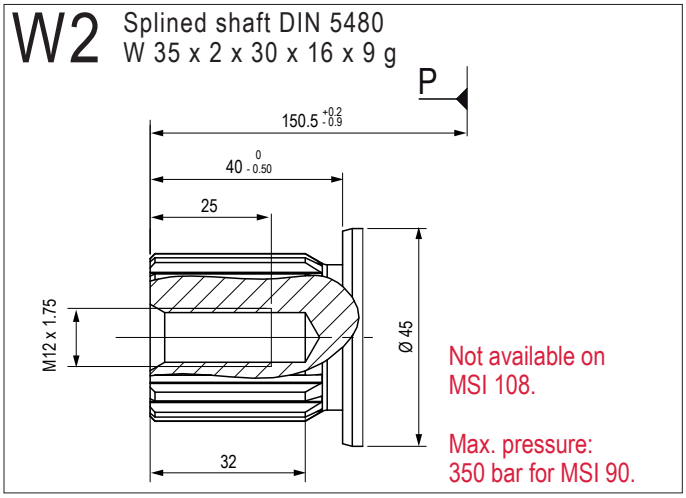


► Shaft end

W1 Splined shaft DIN 5480 W 40 x 2 x 30 x 18 x 9 g



W2 Splined shaft DIN 5480 W 35 x 2 x 30 x 16 x 9 g

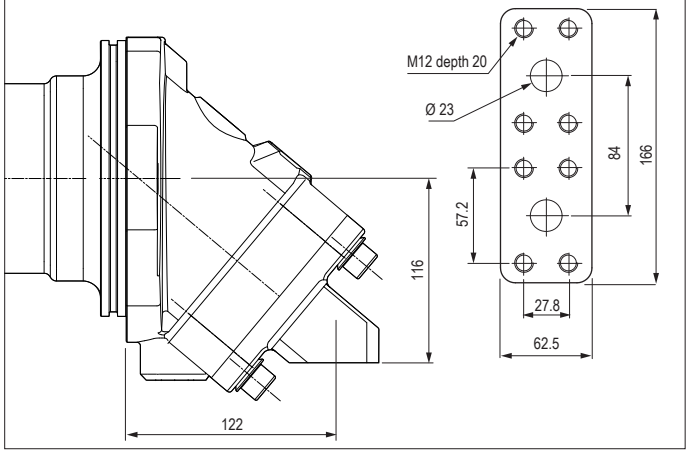


Not available on MSI 108.

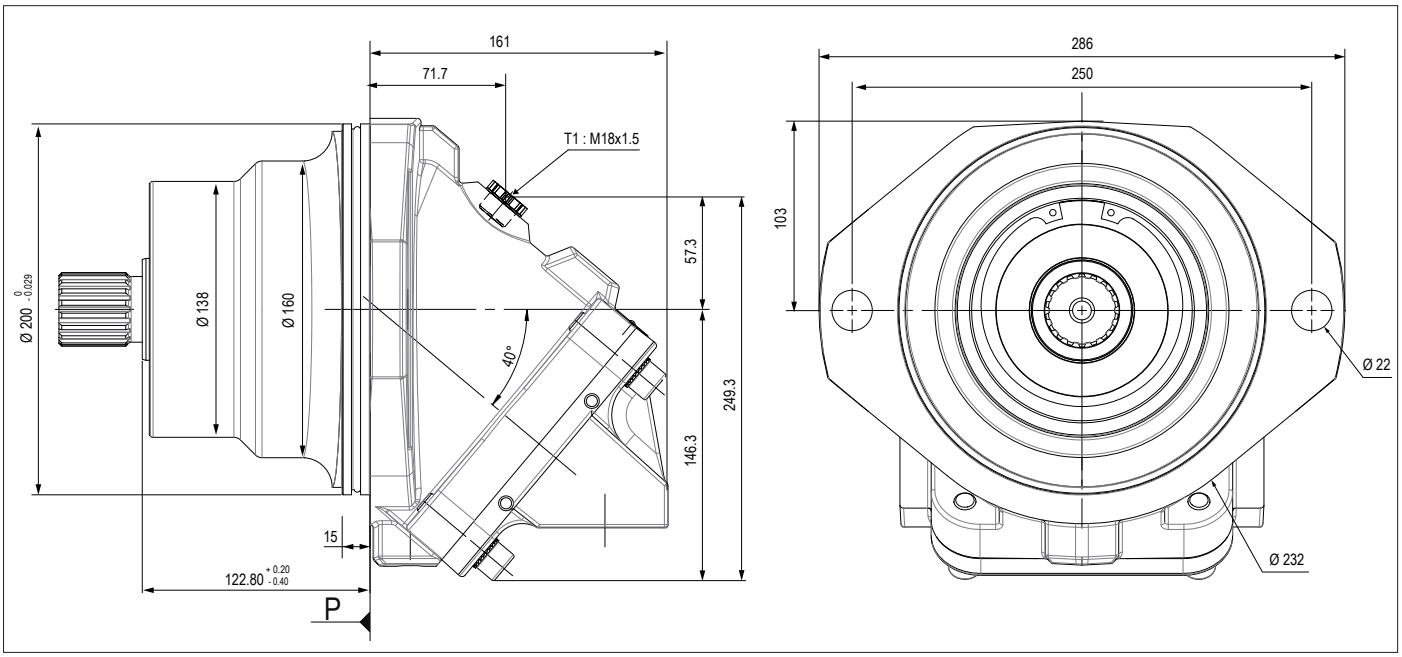
Max. pressure: 350 bar for MSI 90.

► Inlet ports

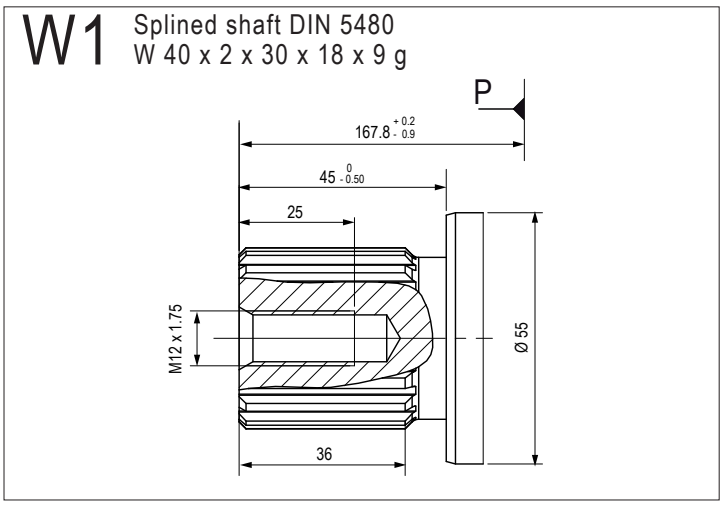
L0 SAE flange ports, bottom 40° A and B SAE 1" 6000 psi



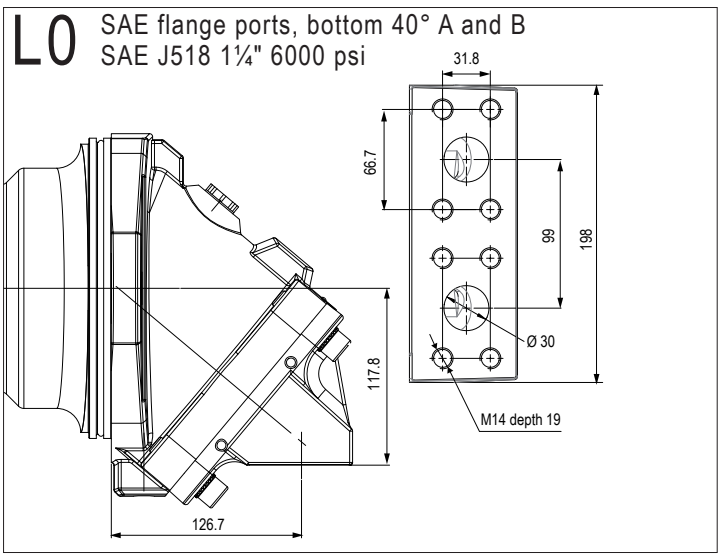
Dimensions in mm are given only as an indication.



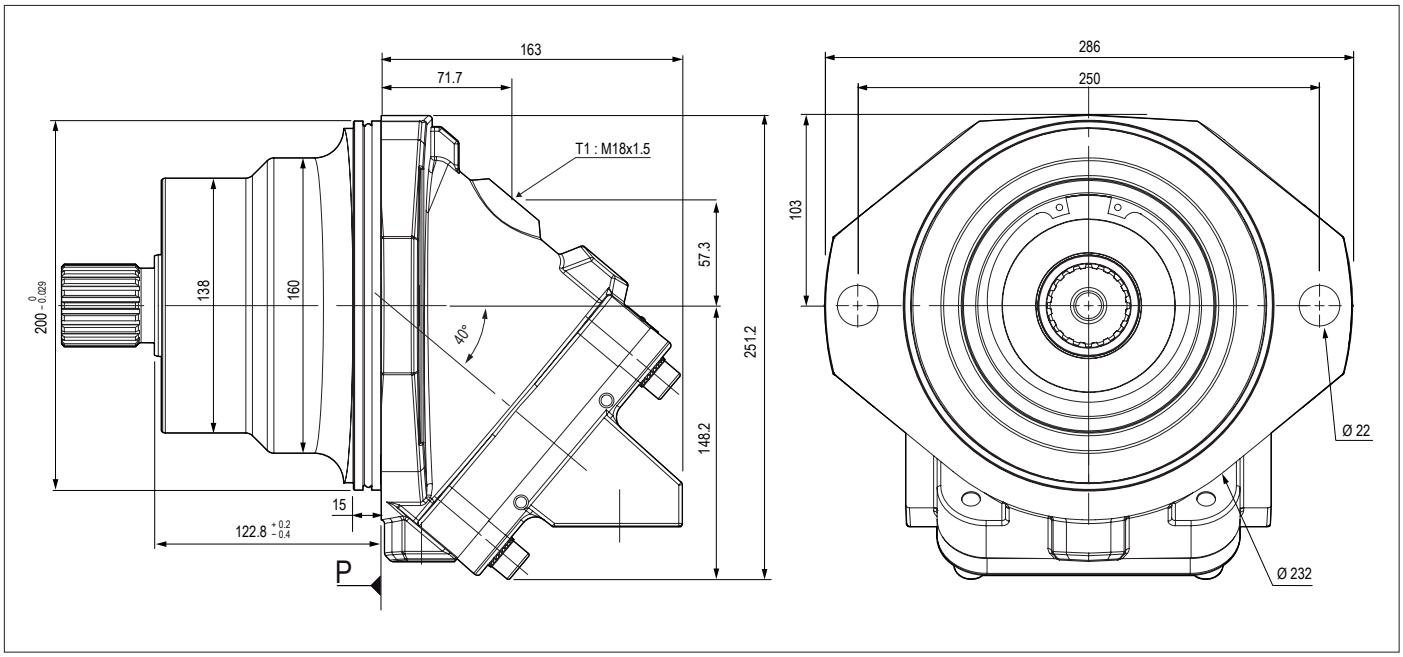
►Shaft end



►Inlet ports

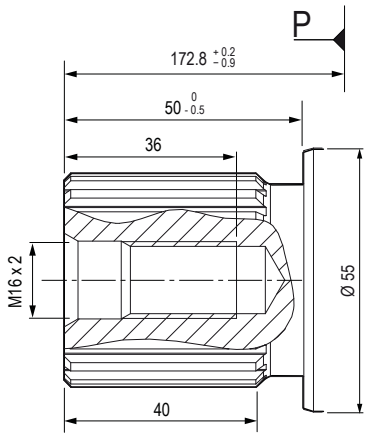


Dimensions in mm are given only as an indication.

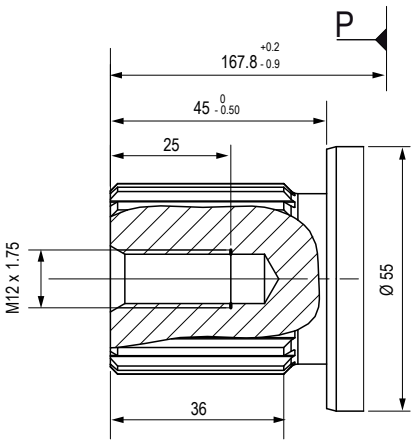


▶ Shaft end

W1 Splined shaft DIN 5480 W 45 x 2 x 30 x 21 x 9 g

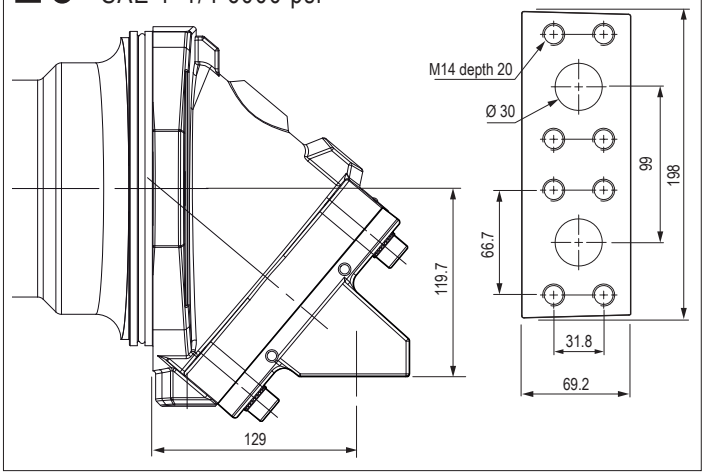


W2 Splined shaft DIN 5480 W 40 X 2 X 30 X 18 X 9 g



▶ Inlet ports

L0 SAE flange ports, bottom 40° A and B SAE 1''1/4 6000 psi



Dimensions in mm are given only as an indication.