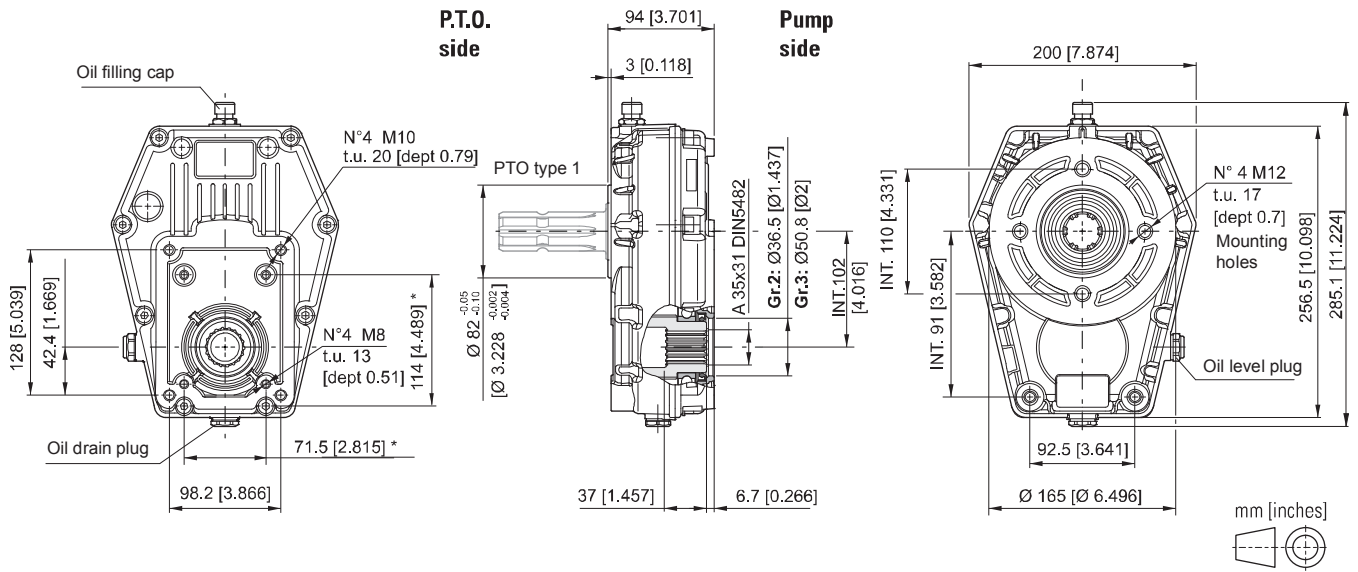
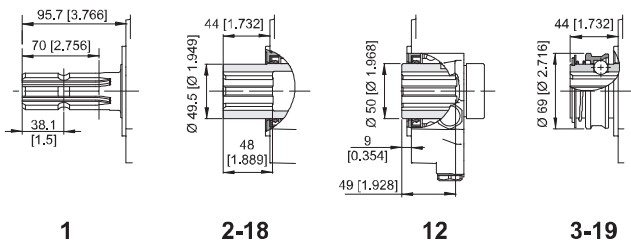


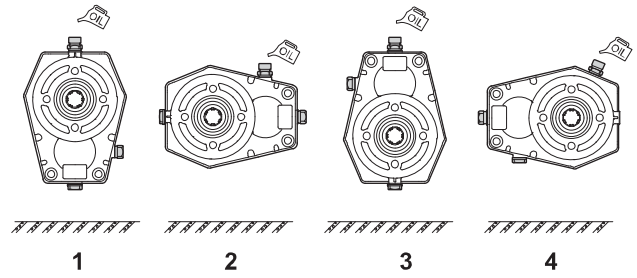
SPEED INCREASER GEARBOX FOR PUMPS GR.2/3 WITH EUROPEAN UNIFIED FLANGE



P.T.O.



Mounting positions



ORDERING CODE

ML52 - ** -1/ *** - * - *

ML52 = Speed increaser (aluminium body)

P.T.O.

- 1** = Male 1" 3/8 DIN 9611
- 2** = Female 1" 3/8 DIN 9611
- 3** = Female 1" 3/8 DIN 9611 + tightening
- 12** = Female 1" 3/8 DIN 9611 short
- 18** = Female z21 - 16/32 DIN 9611
- 19** = Female z21 - 16/32 DIN 9611 + tightening

Coupling for pump to be required to our sales department.

Flange

- Omit for pumps GR.3
- C** = predisposition for pumps GR.2 - GR.3
- S** = SAE A - see page 30
- T** = SAE B - see page 30

Mounting positions

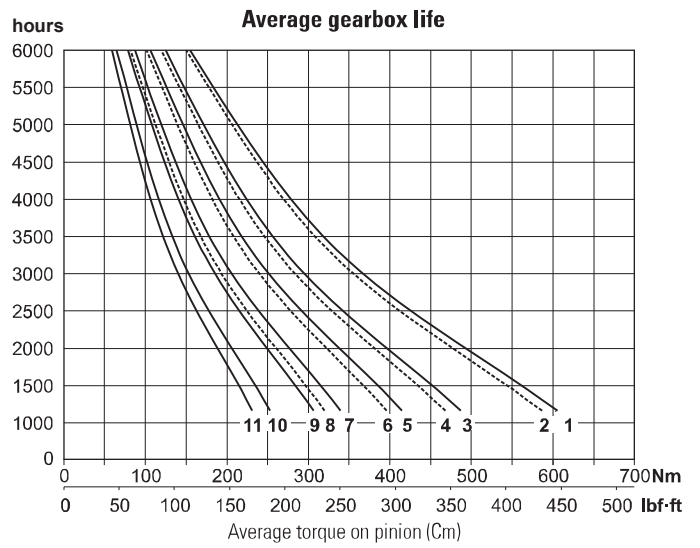
1 / 2 / 3 / 4

Transmission ratio

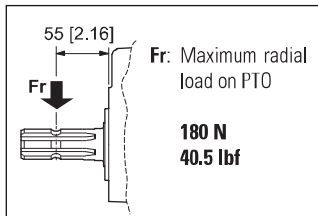
- 1** = 1 : 1.0
- 1,5** = 1 : 1.5
- 2** = 1 : 2.0
- 2,6** = 1 : 2.6
- 3** = 1 : 3.0
- 3,4** = 1 : 3.4
- 3,8** = 1 : 3.8

TECHNICAL DATA

Transmission ratio	Maximum torque Nm [lbf-ft]				Weight kg [lb]
	540 rpm		1000 rpm		
	C1*	C2*	C1*	C2*	
1 : 1.0	604 [445]	318 [235]	585 [431]	308 [227]	9 [19.8]
1 : 1.5	486 [358]	256 [189]	467 [344]	246 [181]	8,4 [18.5]
1 : 2.0	414 [305]	218 [161]	395 [291]	208 [153]	8 [17.6]
1 : 2.6	339 [250]	178 [131]	319 [235]	168 [124]	7,9 [17.4]
1 : 3.0	306 [226]	161 [119]	—	—	7,7 [17]
1 : 3.4	253 [187]	133 [98]	—	—	8,1 [17.9]
1 : 3.8	231 [170]	122 [89]	—	—	8,1 [17.9]



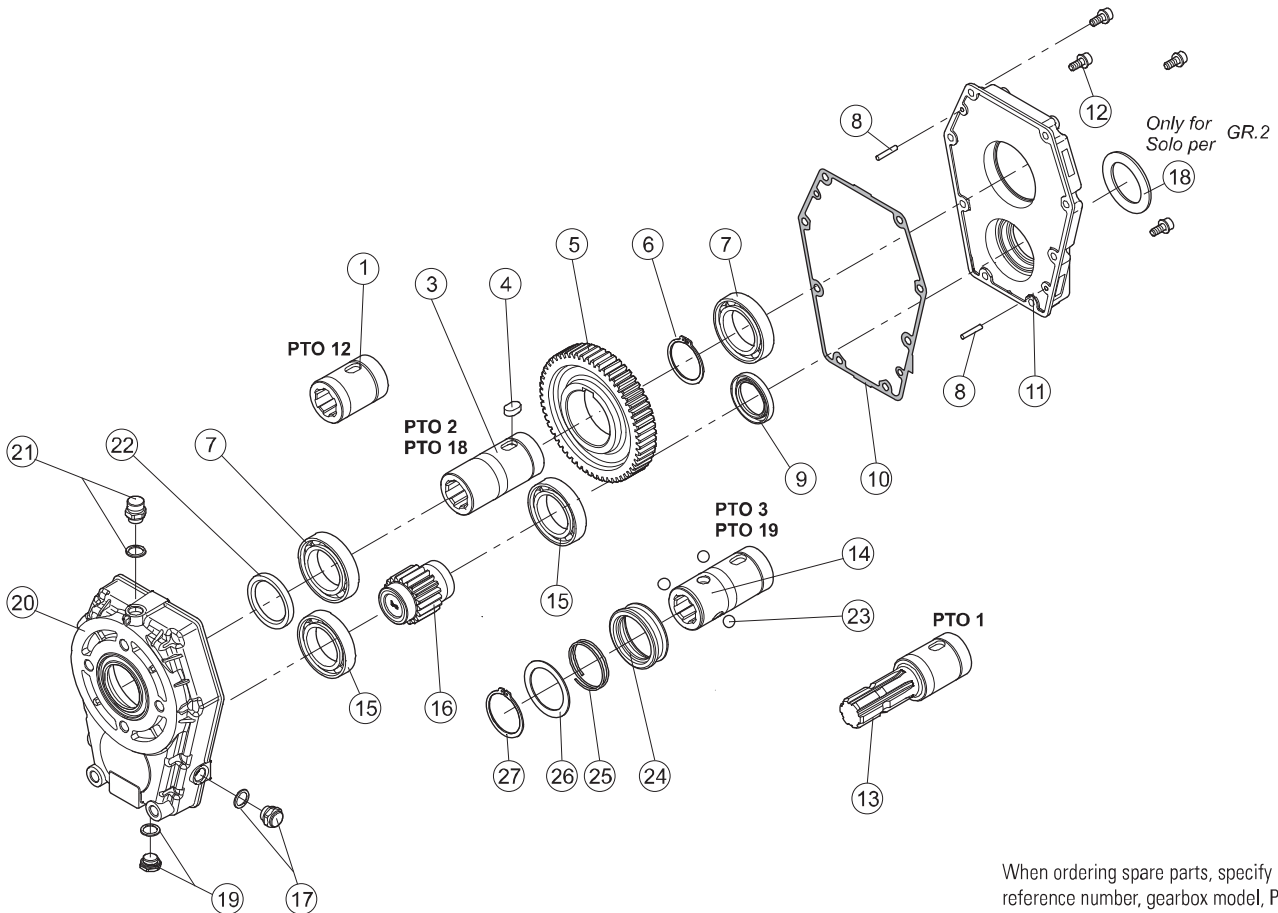
* Maximum torque on pump:
C1= maximum starting torque; C2= maximum torque for continuous duty.



Mounting positions	Oil liters [US gallon]
1	0.34 [0.09]
2	0.80 [0.21]
3	0.52 [0.14]
4	0.75 [0.20]

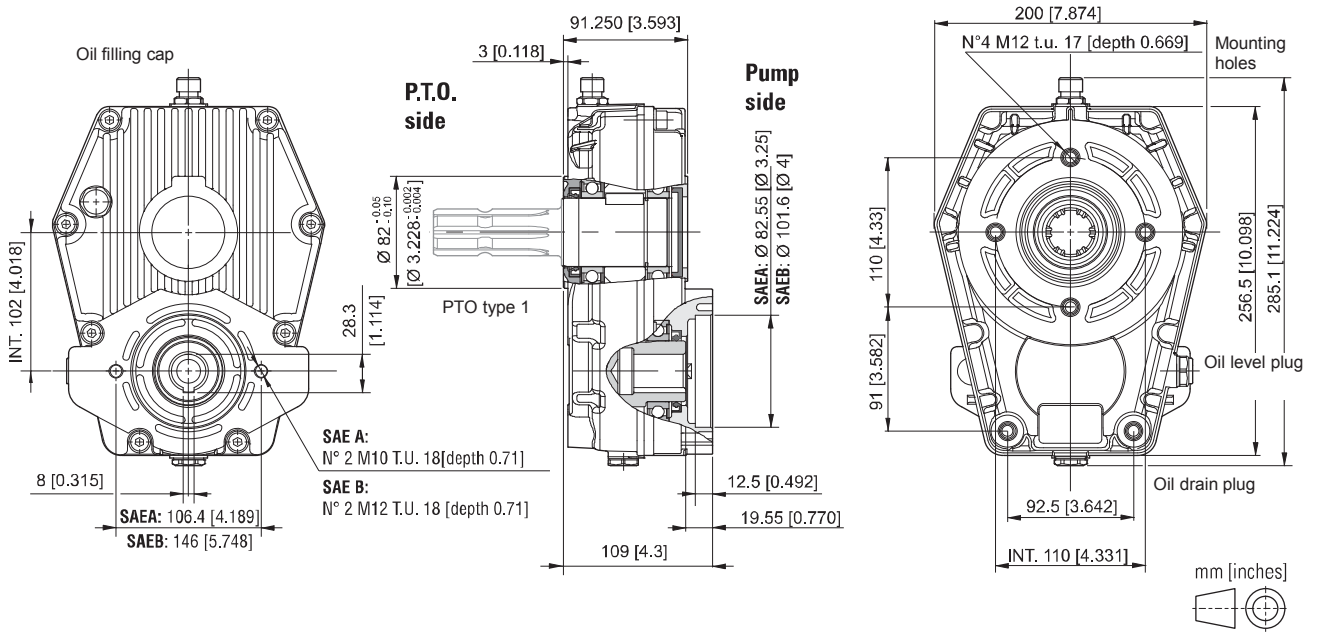
Input rpm		Output (transmission ratio)						
		1 : 1.0	1 : 1.5	1 : 2.0	1 : 2.6	1 : 3.0	1 : 3.4	1 : 3.8
540	curve	1	3	5	7	9	10	11
	rpm	540	810	1080	1408	1620	1836	2057
1000	curve	2	4	6	8	—	—	—
	rpm	1000	1500	2000	2607	—	—	—

SPARE PARTS

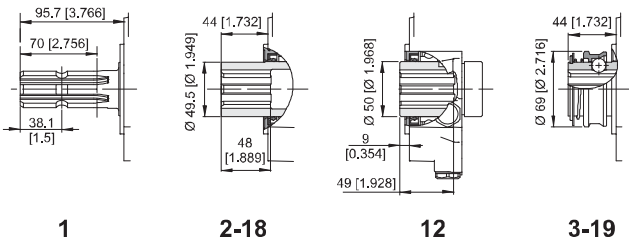


When ordering spare parts, specify reference number, gearbox model, PTO type and transmission ratio.

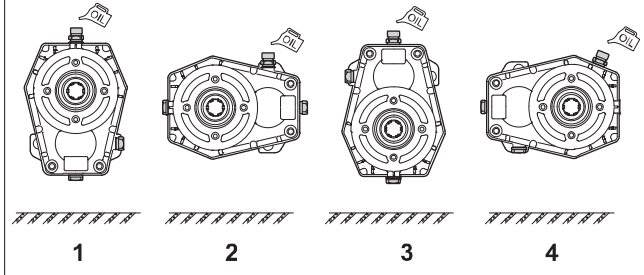
SPEED INCREASER GEARBOX FOR PUMPS SAE A/B



P.T.O.



Mounting positions



ORDERING CODE

ML52/SAE* - ** -1/ *** - ** - *

ML52/SAE A = Speed increaser (aluminium body)
ML52/SAE B = Speed increaser (aluminium body)

P.T.O.

1 = Male 1" 3/8 DIN 9611
2 = Female 1" 3/8 DIN 9611
3 = Female 1" 3/8 DIN 9611 + tightening
12 = Female 1" 3/8 DIN 9611 short
18 = Female z21 - 16/32 DIN 9611
19 = Female z21 - 16/32 DIN 9611 + tightening

Coupling for pump to be required to our sales department.

Mounting positions
1 / 2 / 3 / 4

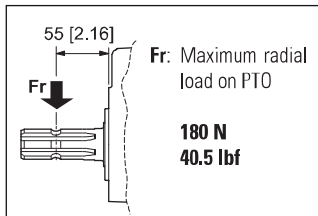
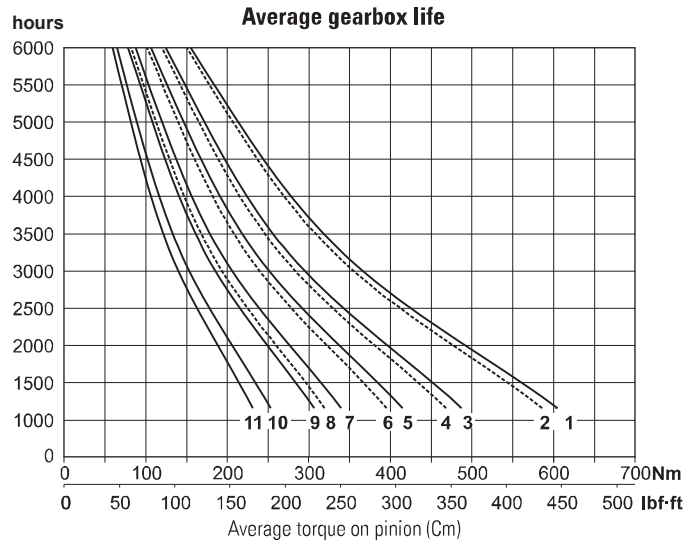
Input shaft
9 = Female Ø 25
16 = Female Z18 DIN 5482 (35x31)

Transmission ratio
1 = 1 : 1.0
1,5 = 1 : 1.5
2 = 1 : 2.0
2,6 = 1 : 2.6
3 = 1 : 3.0
3,4 = 1 : 3.4
3,8 = 1 : 3.8

TECHNICAL DATA

Transmission ratio	Maximum torque Nm [lbf-ft]				Weight kg [lb]
	540 rpm		1000 rpm		
	C1*	C2*	C1*	C2*	
1 : 1.0	604 [445]	318 [235]	585 [431]	308 [227]	9 [19.8]
1 : 1.5	486 [358]	256 [189]	467 [344]	246 [181]	8,4 [18.5]
1 : 2.0	414 [305]	218 [161]	395 [291]	208 [153]	8 [17.6]
1 : 2.6	339 [250]	178 [131]	319 [235]	168 [124]	7,9 [17.4]
1 : 3.0	306 [226]	161 [119]	—	—	7,7 [17]
1 : 3.4	253 [187]	133 [98]	—	—	8,1 [17.9]
1 : 3.8	231 [170]	122 [89]	—	—	8,1 [17.9]

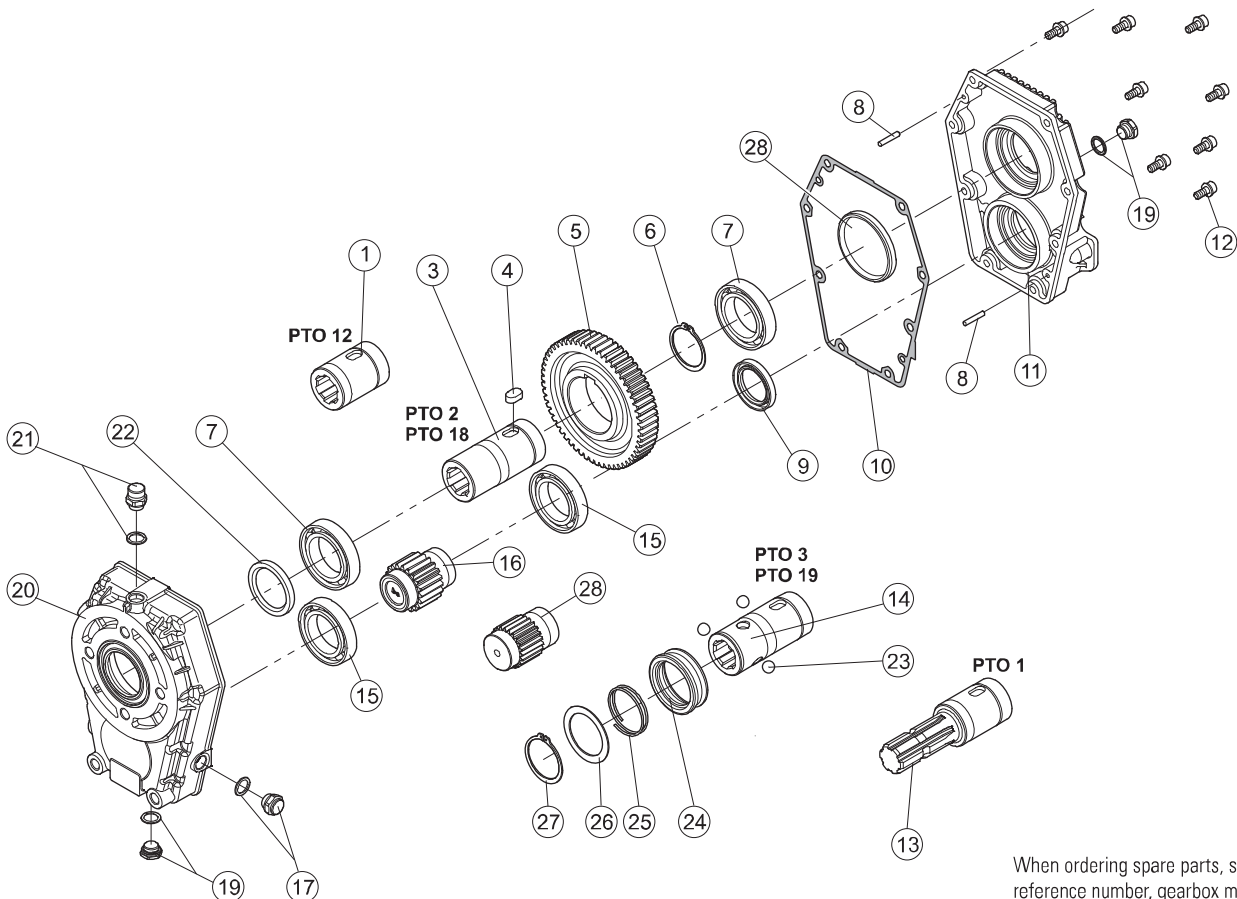
* Maximum torque on pump:
C1= maximum starting torque; C2= maximum torque for continuous duty.



Mounting positions	Oil liters [US gallon]
1	0.34 [0.09]
2	0.80 [0.21]
3	0.52 [0.14]
4	0.75 [0.20]

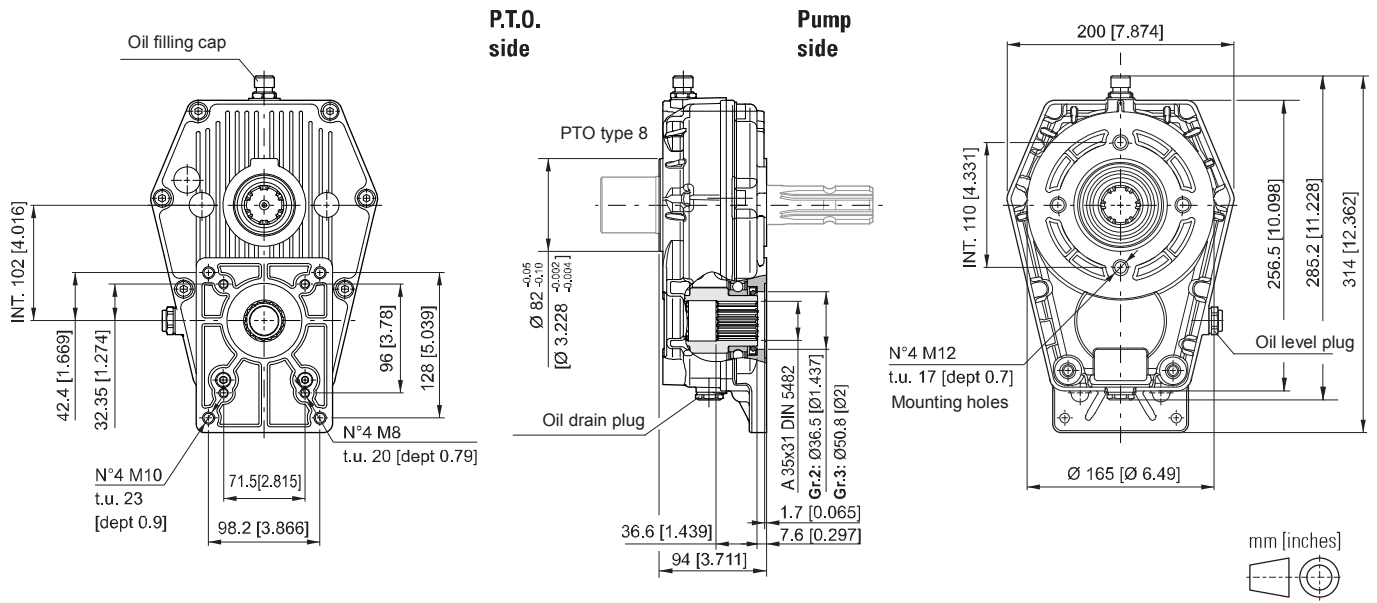
Input rpm		Output (transmission ratio)						
		1 : 1.0	1 : 1.5	1 : 2.0	1 : 2.6	1 : 3.0	1 : 3.4	1 : 3.8
540	curve	1	3	5	7	9	10	11
	rpm	540	810	1080	1408	1620	1836	2057
1000	curve	2	4	6	8	—	—	—
	rpm	1000	1500	2000	2607	—	—	—

SPARE PARTS

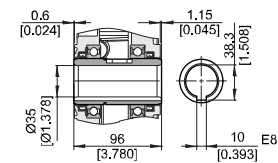


When ordering spare parts, specify reference number, gearbox model, PTO type and transmission ratio.

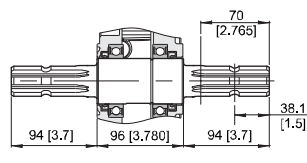
SPEED INCREASER GEARBOX WITH THROUGH-SHAFT FOR PUMPS GR.2/3 WITH EUROPEAN UNIFIED FLANGE



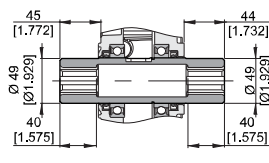
P.T.O.



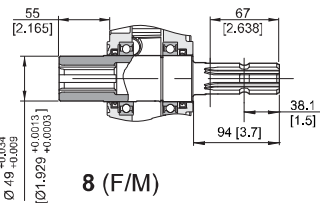
4 (F/F)



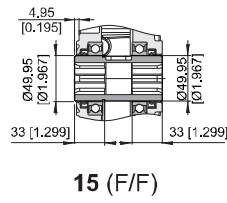
6 (M/M)



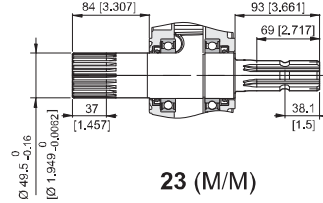
7 (F/F long)



8 (F/M)

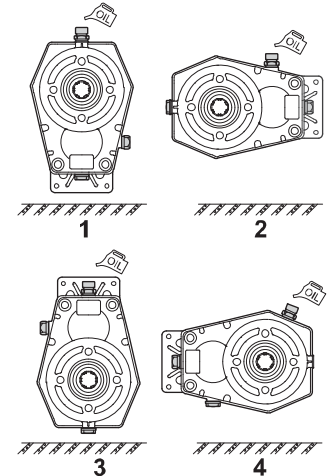


15 (F/F)



23 (M/M)

Mounting positions



ORDERING CODE

ML52B - ** -1/ *** - *

ML52B = Speed increaser (aluminium body)

P.T.O.

- 4 = Female/Female Ø 35 short
- 6 = Male/Male 1" 3/8 DIN 9611
- 7 = Female/Female 1" 3/8 DIN 9611
- 8 = Female/Male 1" 3/8 DIN 9611
- 15 = Female/Female 1" 3/8 DIN 9611 short
- 23 = Male 50x45 Z=24 DIN 5482
Male 1" 3/8 DIN 9611

Mounting positions 1 / 2 / 3 / 4

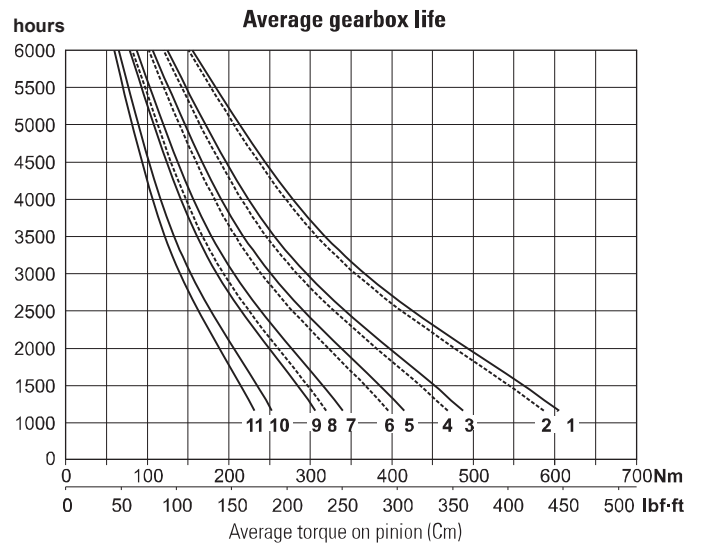
Transmission ratio

- 1 = 1 : 1.0
- 1,5 = 1 : 1.5
- 2 = 1 : 2.0
- 2,6 = 1 : 2.6
- 3 = 1 : 3.0
- 3,4 = 1 : 3.4
- 3,8 = 1 : 3.8

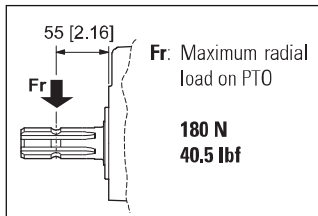
Coupling for pump to be required to our sales department.

TECHNICAL DATA

Transmission ratio	Maximum torque Nm [lbf-ft]				Weight kg [lb]
	540 rpm		1000 rpm		
	C1*	C2*	C1*	C2*	
1 : 1.0	604 [445]	318 [235]	585 [431]	308 [227]	9,4 [20.7]
1 : 1.5	486 [358]	256 [189]	467 [344]	246 [181]	9 [19.8]
1 : 2.0	414 [305]	218 [161]	395 [291]	208 [153]	8,6 [19]
1 : 2.6	339 [250]	178 [131]	319 [235]	168 [124]	8,9 [19.6]
1 : 3.0	306 [226]	161 [119]	—	—	8,6 [19]
1 : 3.4	253 [187]	133 [98]	—	—	9 [19.8]
1 : 3.8	231 [170]	122 [89]	—	—	8,4 [18.5]



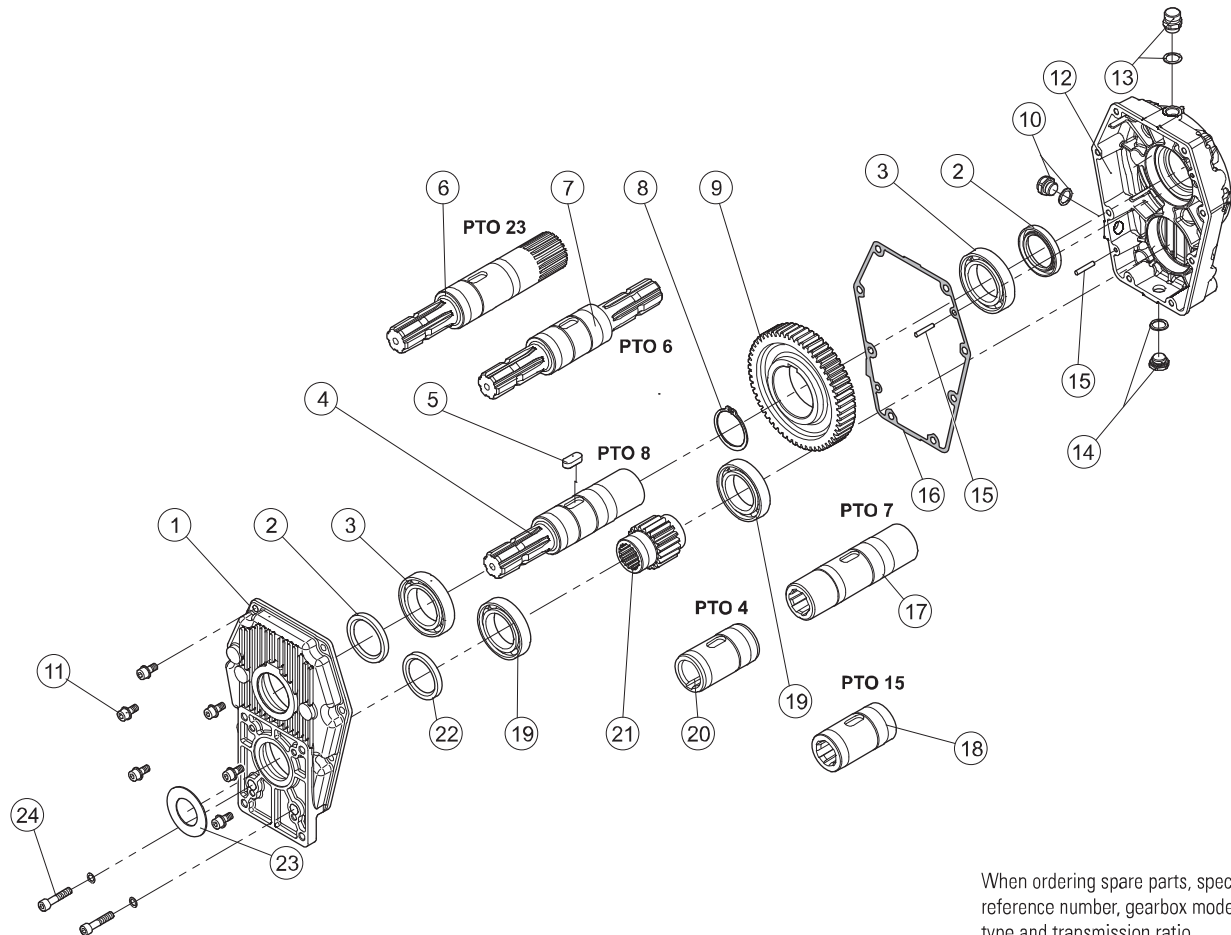
* Maximum torque on pump:
C1= maximum starting torque; C2= maximum torque for continuous duty.



Mounting positions	Oil liters [US gallon]
1	0.34 [0.09]
2	0.80 [0.21]
3	0.52 [0.14]
4	0.75 [0.20]

Input rpm		Output (transmission ratio)						
		1 : 1.0	1 : 1.5	1 : 2.0	1 : 2.6	1 : 3.0	1 : 3.4	1 : 3.8
540	curve	1	3	5	7	9	10	11
	rpm	540	810	1080	1408	1620	1836	2057
1000	curve	2	4	6	8	—	—	—
	rpm	1000	1500	2000	2607	—	—	—

SPARE PARTS



When ordering spare parts, specify reference number, gearbox model, PTO type and transmission ratio.