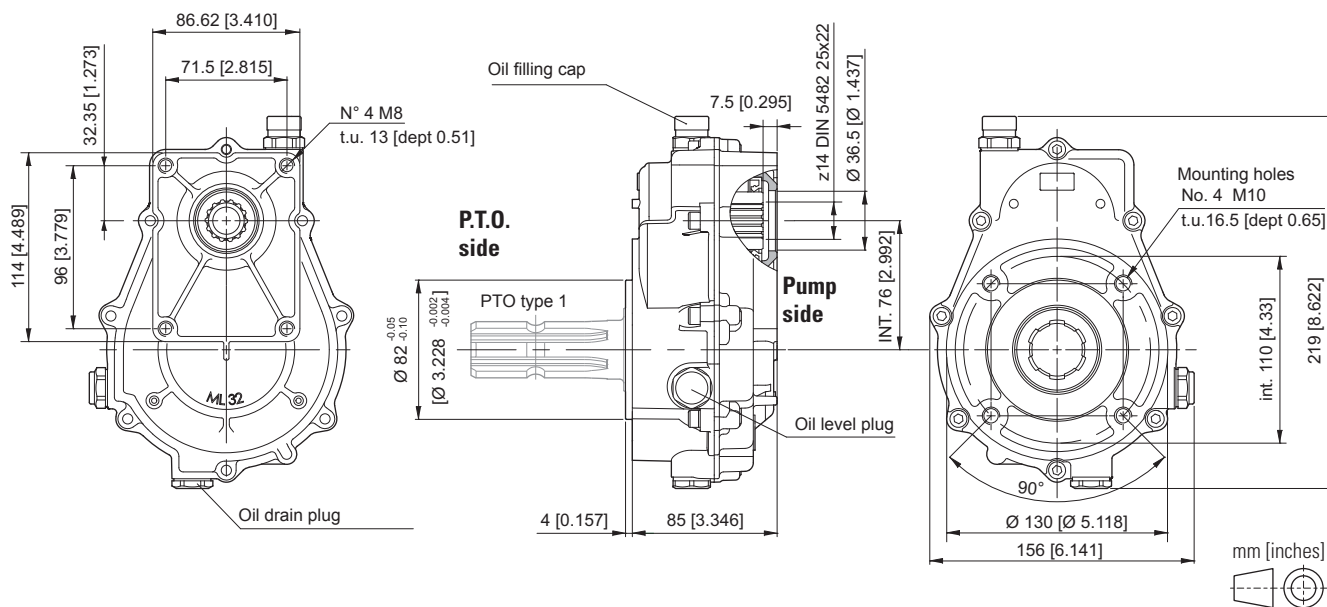
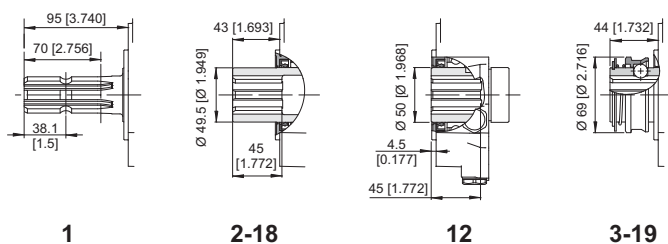


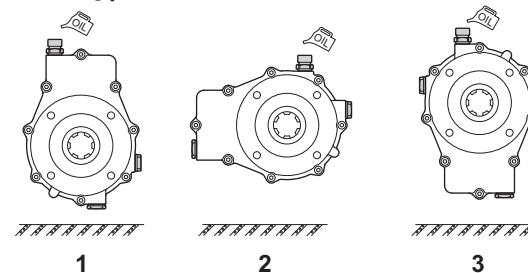
SPEED INCREASER GEARBOX FOR PUMPS GR.2 WITH EUROPEAN UNIFIED FLANGE



P.T.O.



Mounting positions



ORDERING CODE

ML32 - ** -1/ *** - *

ML32 = 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

Mounting positions
1 / 2 / 3

Transmission ratio

- 1,5** = 1 : 1,5
- 2** = 1 : 2,0
- 2,5** = 1 : 2,5
- 3** = 1 : 3,0
- 3,5** = 1 : 3,5
- 3,8** = 1 : 3,8

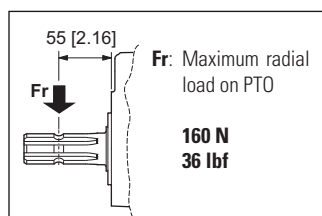
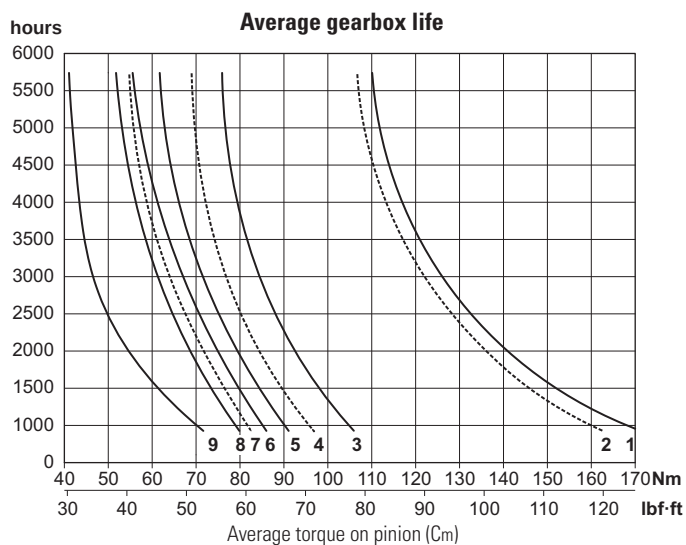
Coupling for pump to be required to our sales department.

TECHNICAL DATA

Transmission ratio	Maximum torque Nm [lbf·ft]				Weight [lb]
	540 rpm		1000 rpm		
	C1*	C2*	C1*	C2*	
1 : 1.5	190 [140.1]	127 [93.7]	183 [135]	122 [90]	4,3 [9.5]
1 : 2.0	170 [125.4]	85 [62.7]	156 [115.1]	78 [57.5]	4,3 [9.5]
1 : 2.5	178 [131.3]	71 [52.4]	163 [120.2]	65 [47.9]	4,2 [9.3]
1 : 3.0	201 [148.2]	67 [49.4]	—	—	4,1 [9]
1 : 3.5	213 [157.1]	61 [45]	—	—	4 [8.8]
1 : 3.8	182 [134.2]	47 [34.7]	—	—	4 [8.8]

* Maximum torque on pump:

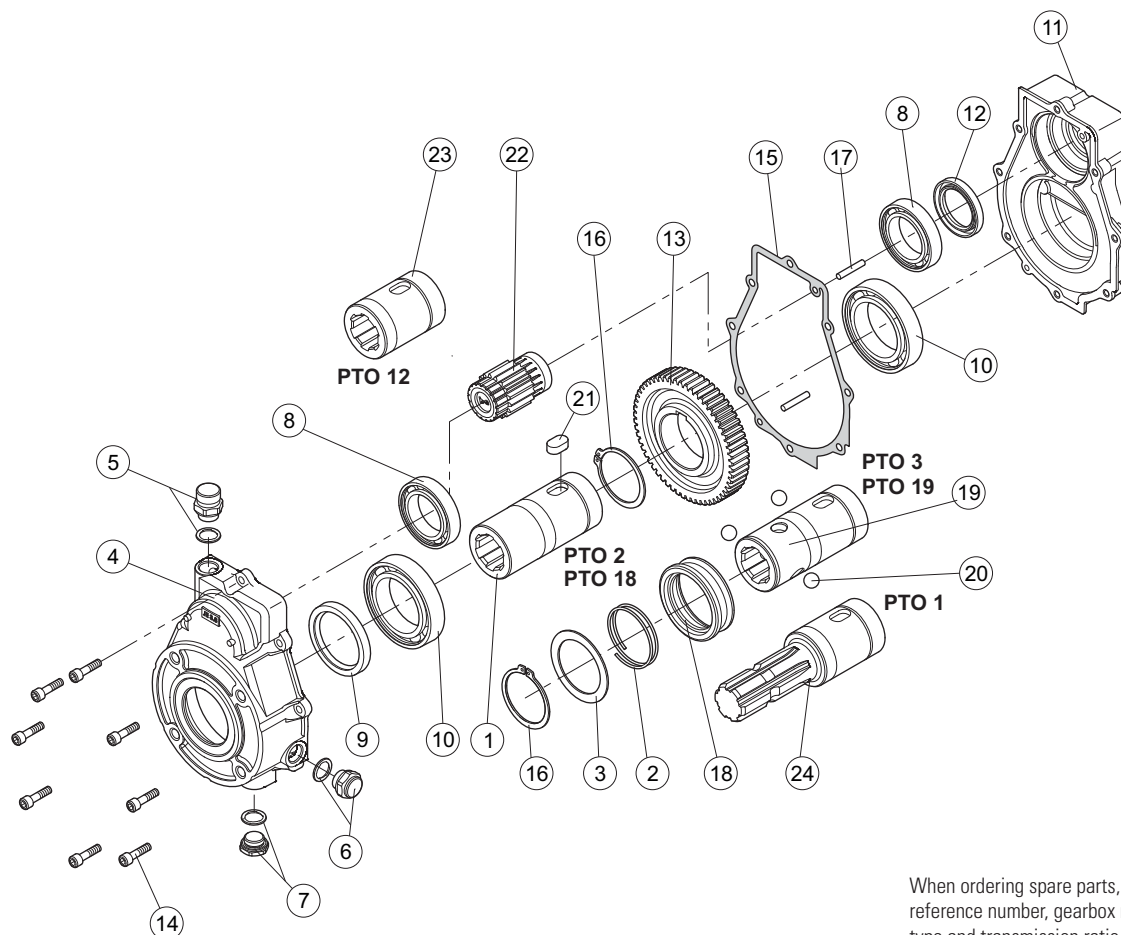
C1= maximum starting torque; C2= maximum torque for continuous duty.



Mounting positions	Oil liters [US gallon]
1	0.15 [0.04]
2	0.11 [0.03]
3	0.09 [0.02]

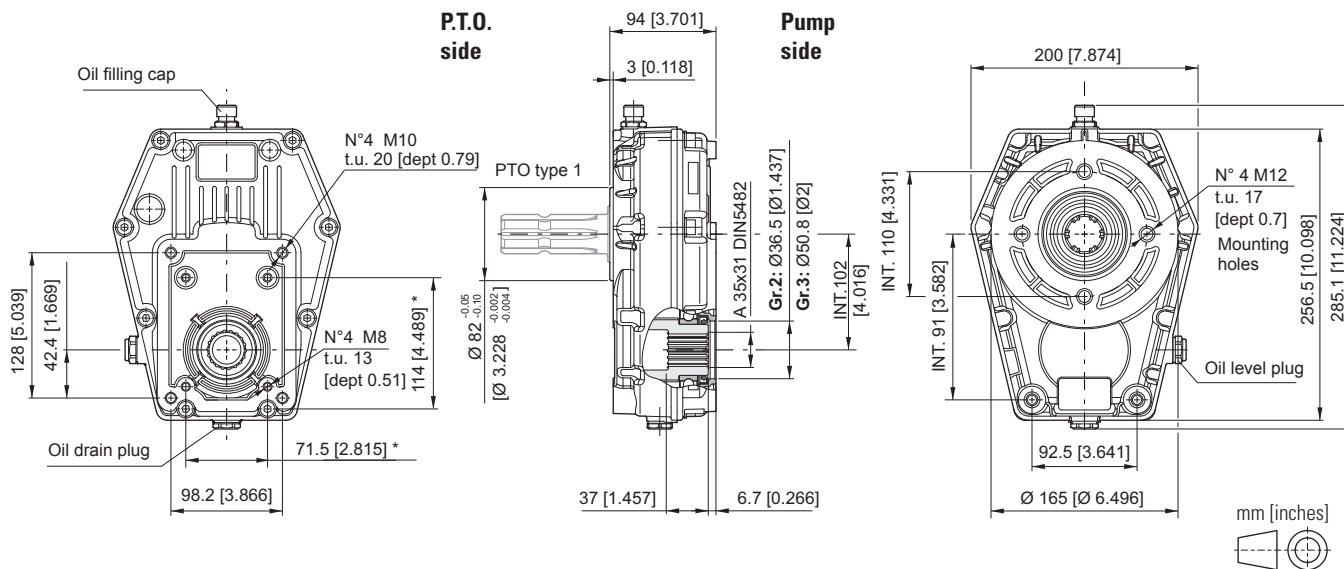
Input rpm		Output (transmission ratio)					
		1 : 1.5	1 : 2.0	1 : 2.5	1 : 3.0	1 : 3.5	1 : 3.8
540	curve	1	3	5	6	8	8
	rpm	810	1080	1350	1680	1836	2052
1000	curve	2	4	7	—	—	—
	rpm	1500	2000	2500	—	—	—

SPARE PARTS

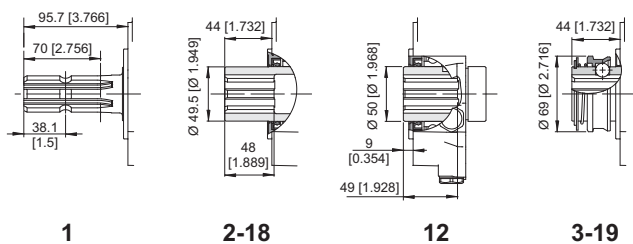


When ordering spare parts, specify reference number, gearbox model, PTO type and transmission ratio.

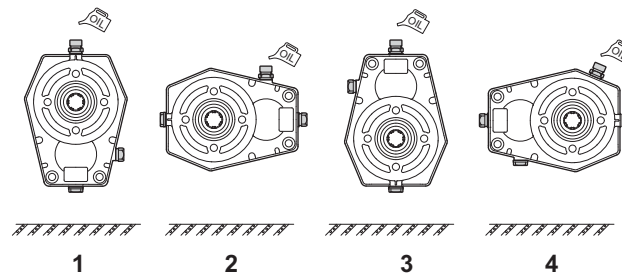
SPEED INCREASER GEARBOX FOR PUMPS GR.2/3 WITH EUROPEAN UNIFIED FLANGE



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

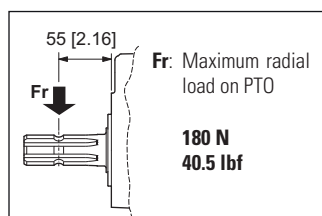
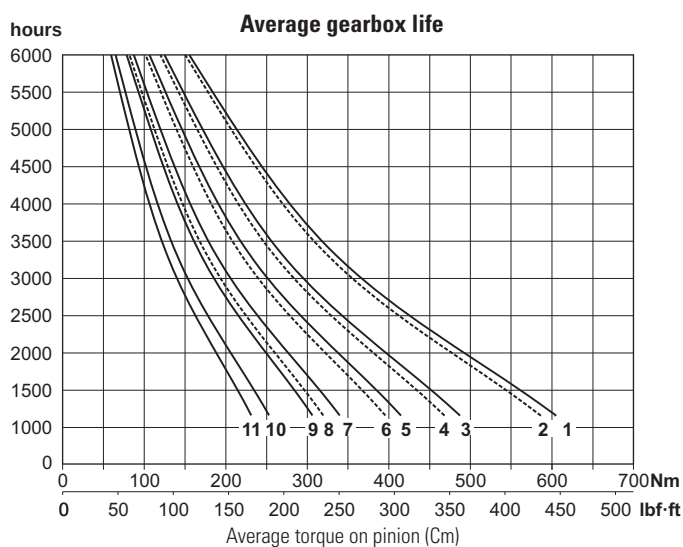
- 1** = 1 : 1.0
- 1,5** = 1 : 1.5
- 2** = 1 : 2.0
- 2,6** = 1 : 2.6
- 3** = 1 : 3.0
- 3,4** = 1 : 3.4
- 3,8** = 1 : 3.8

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:

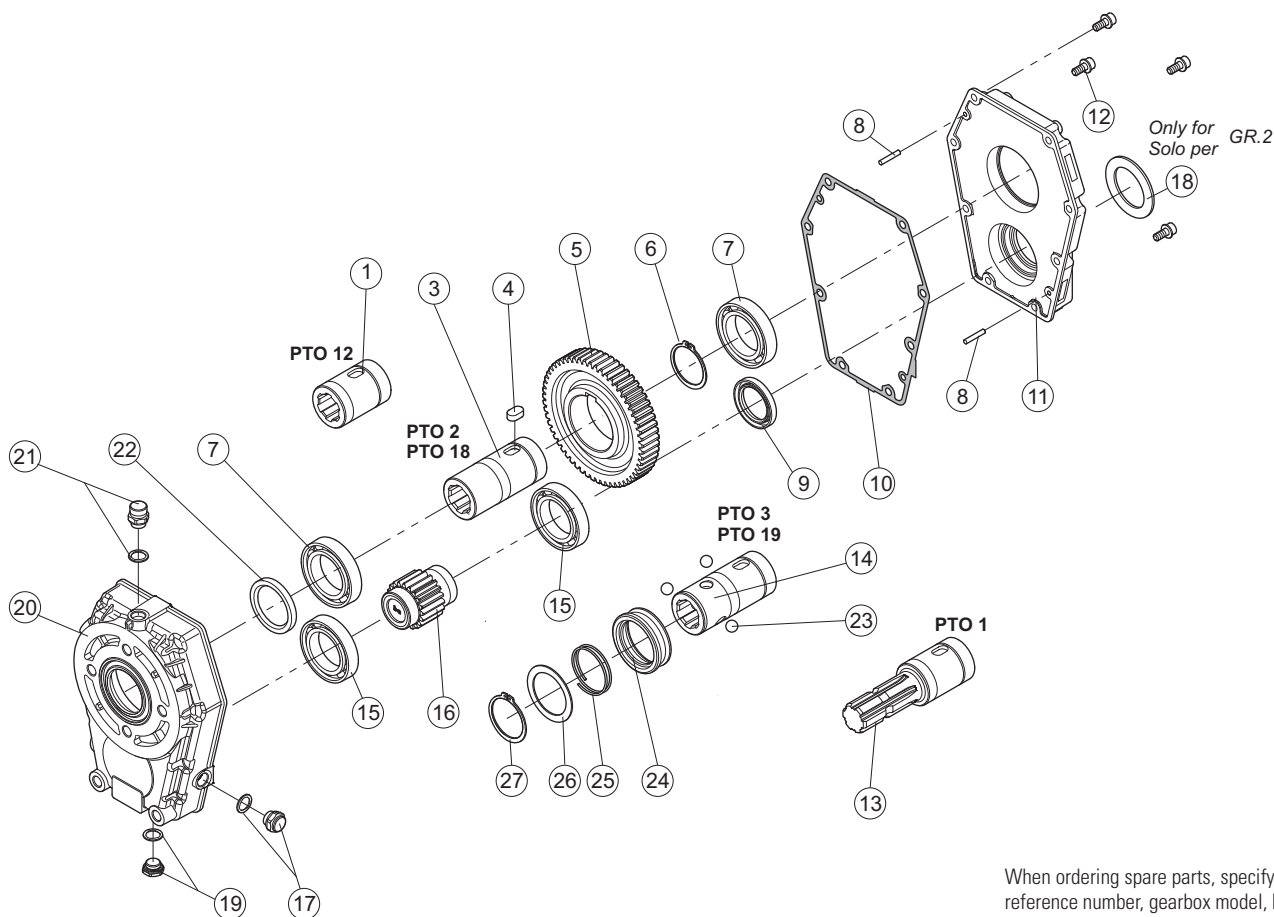
C1= maximum starting torque; C2= maximum torque for continuous duty.



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]

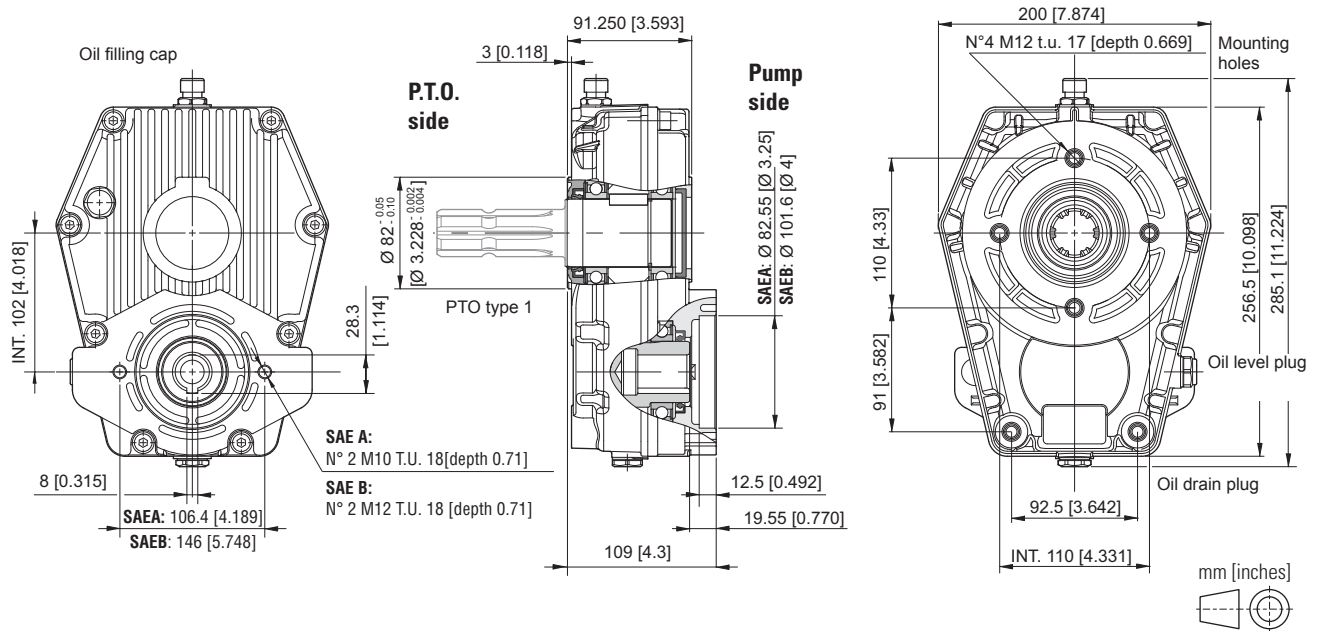
Input rpm		Output (transmission ratio)						
		1 : 1.0	1 : 1.5	1 : 2.0	1 : 2.6	1 : 3.0	1 : 3.4	1 : 3.8
540	curve	1	3	5	7	9	10	11
	rpm	540	810	1080	1408	1620	1836	2057
1000	curve	2	4	6	8	—	—	—
	rpm	1000	1500	2000	2607	—	—	—

SPARE PARTS

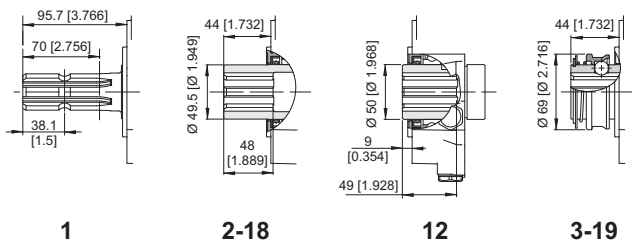


When ordering spare parts, specify reference number, gearbox model, PTO type and transmission ratio.

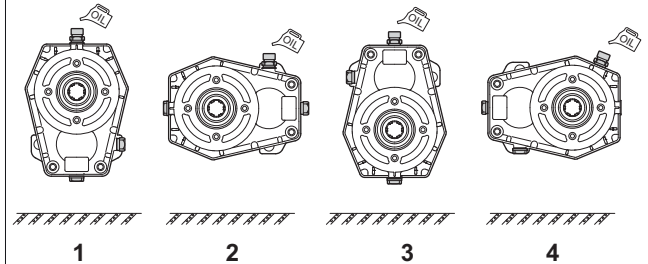
SPEED INCREASER GEARBOX FOR PUMPS SAE A/B



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)

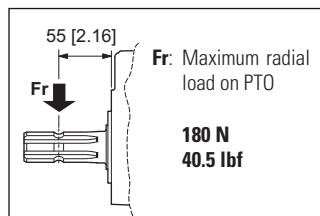
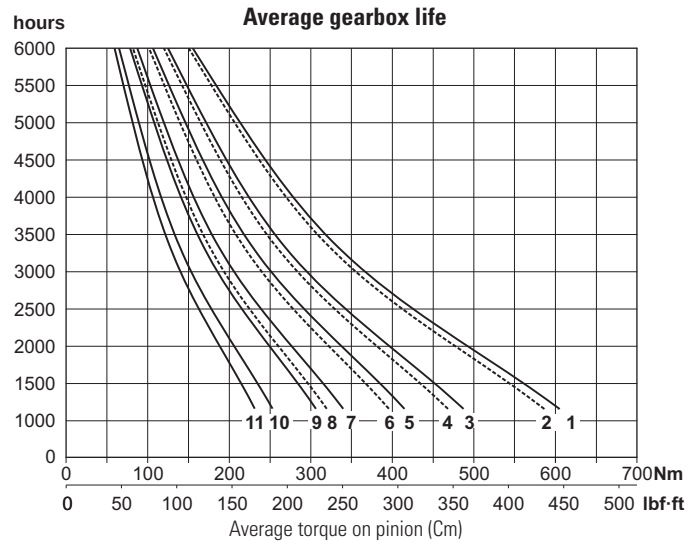
Transmission ratio
1 = 1 : 1.0
1,5 = 1 : 1.5
2 = 1 : 2.0
2,6 = 1 : 2.6
3 = 1 : 3.0
3,4 = 1 : 3.4
3,8 = 1 : 3.8

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:

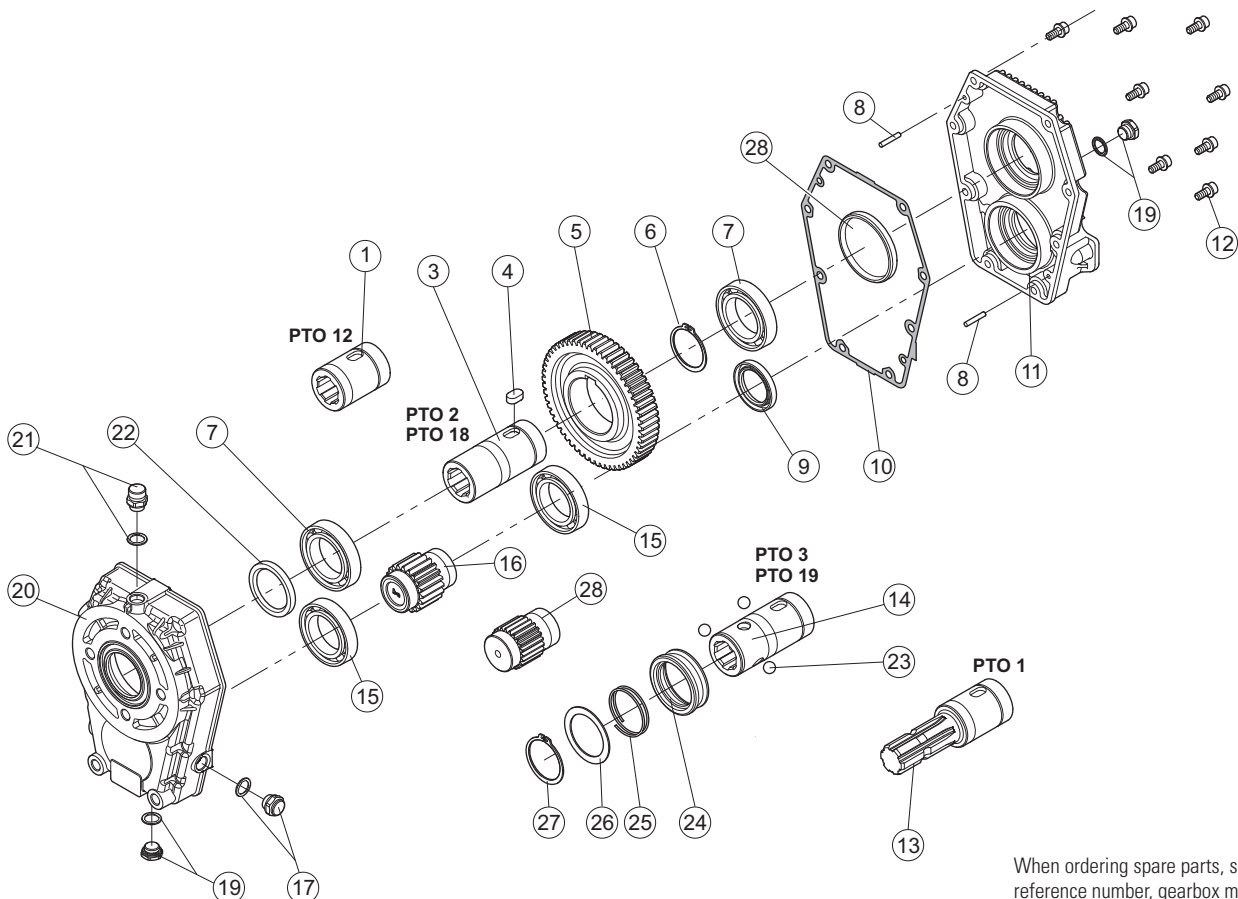
C1= maximum starting torque; C2= maximum torque for continuous duty.



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]

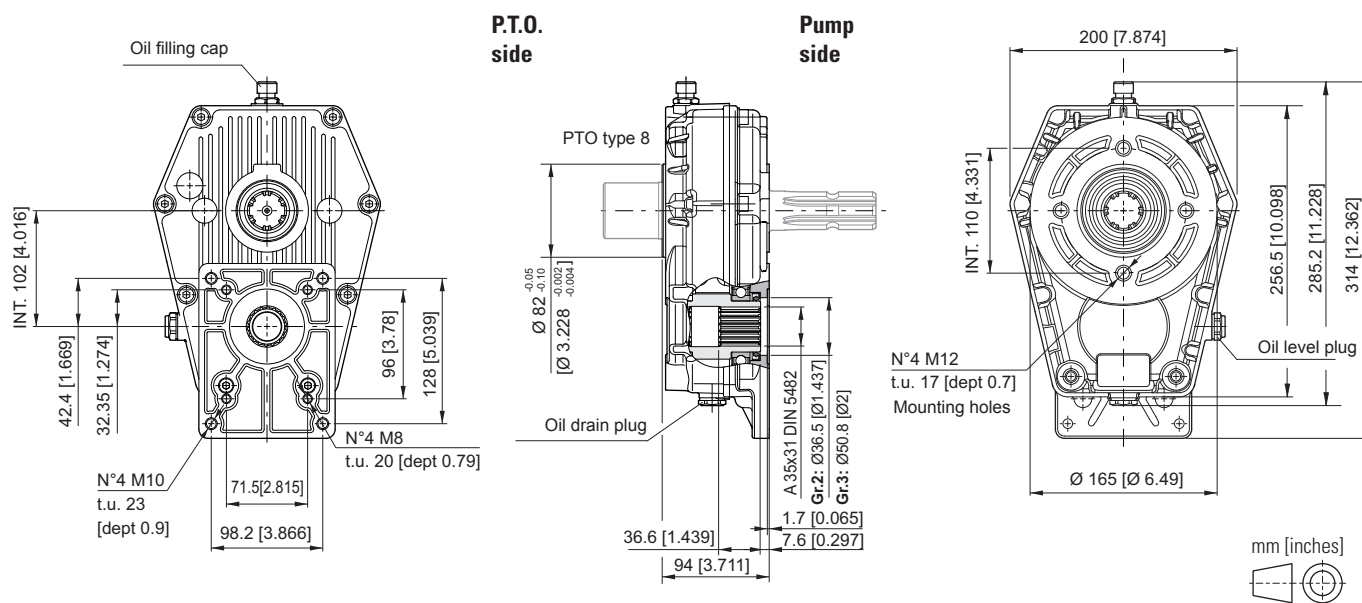
Input rpm		Output (transmission ratio)						
		1 : 1.0	1 : 1.5	1 : 2.0	1 : 2.6	1 : 3.0	1 : 3.4	1 : 3.8
540	curve	1	3	5	7	9	10	11
	rpm	540	810	1080	1408	1620	1836	2057
1000	curve	2	4	6	8	—	—	—
	rpm	1000	1500	2000	2607	—	—	—

SPARE PARTS

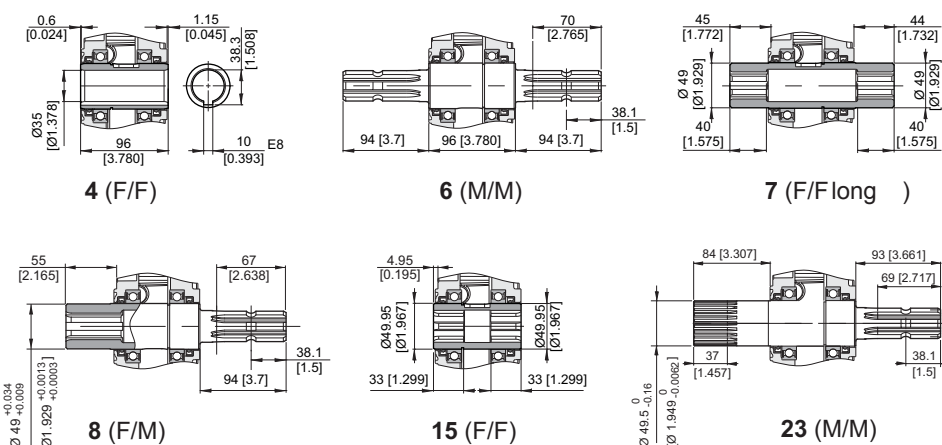


When ordering spare parts, specify reference number, gearbox model, PTO type and transmission ratio.

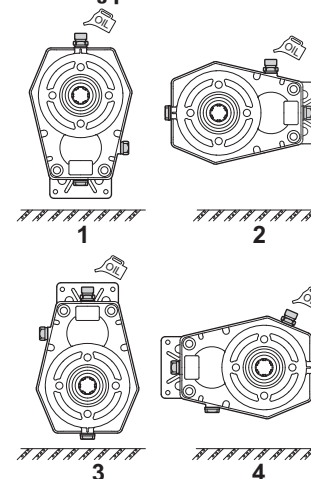
SPEED INCREASER GEARBOX WITH THROUGH-SHAFT FOR PUMPS GR.2/3 WITH EUROPEAN UNIFIED FLANGE



P.T.O.



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

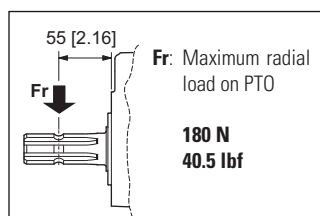
Coupling for pump to be required to our sales department.

TECHNICAL DATA

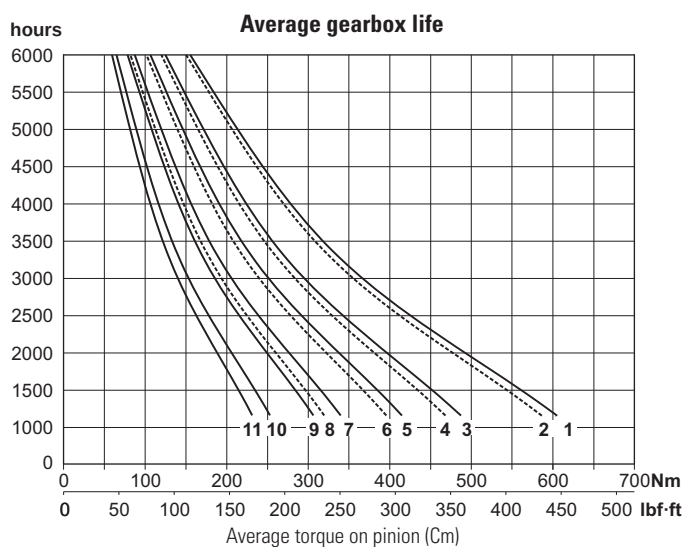
Transmission ratio	Maximum torque Nm [lbf·ft]				Weight kg [lb]
	540 rpm		1000 rpm		
	C1*	C2*	C1*	C2*	
1 : 1.0	604 [445]	318 [235]	585 [431]	308 [227]	9,4 [20.7]
1 : 1.5	486 [358]	256 [189]	467 [344]	246 [181]	9 [19.8]
1 : 2.0	414 [305]	218 [161]	395 [291]	208 [153]	8,6 [19]
1 : 2.6	339 [250]	178 [131]	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.

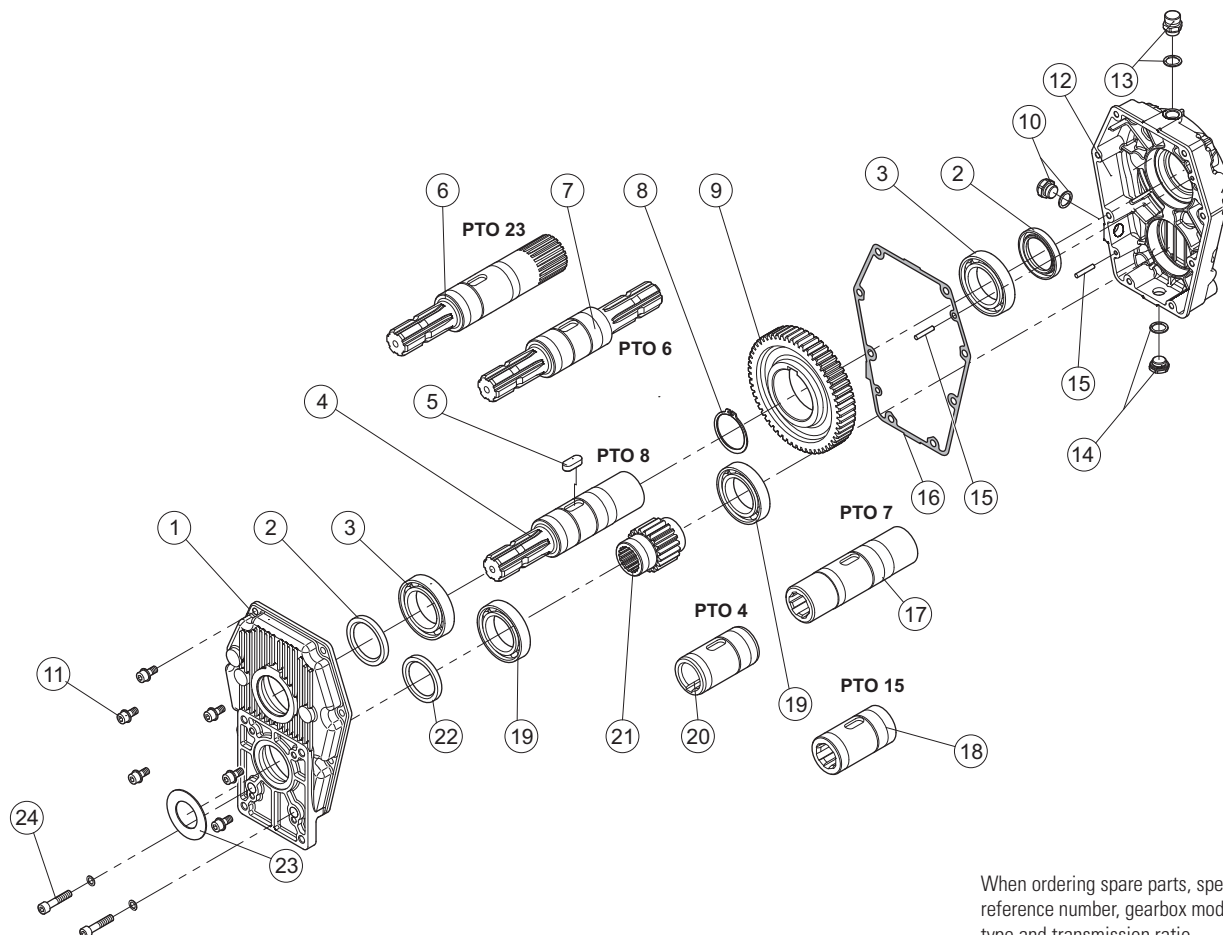


Mounting positions	Oil liters [US gallon]
1	0.34 [0.09]
2	0.80 [0.21]
3	0.52 [0.14]
4	0.75 [0.20]



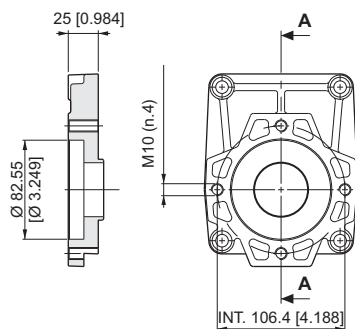
Input rpm		Output (transmission ratio)						
		1 : 1.0	1 : 1.5	1 : 2.0	1 : 2.6	1 : 3.0	1 : 3.4	1 : 3.8
540	curve	1	3	5	7	9	10	11
	rpm	540	810	1080	1408	1620	1836	2057
1000	curve	2	4	6	8	—	—	—
	rpm	1000	1500	2000	2607	—	—	—

SPARE PARTS

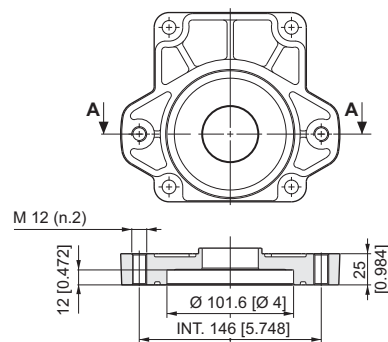


When ordering spare parts, specify reference number, gearbox model, PTO type and transmission ratio.

FLANGES ML52-B502

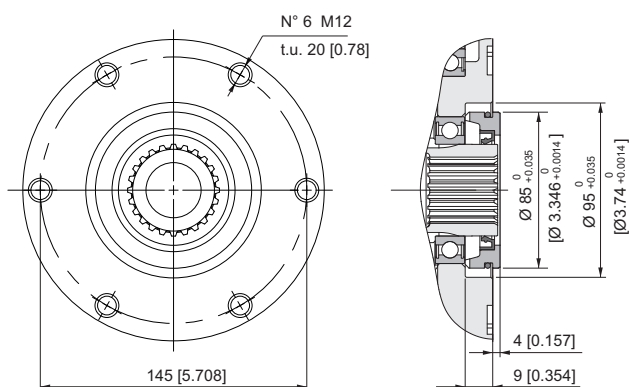


Type "S"
SAE A (2-4 holes) - ML52
Kit flange and screws: 14040004

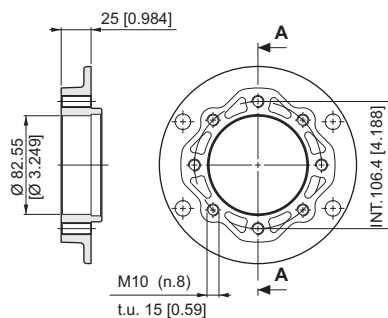


Type "T"
SAE B (2-4 holes) - ML52 - B502
Kit flange and screws: 14040006

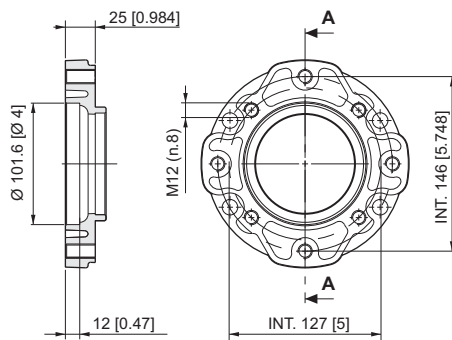
UNIVERSAL FLANGES B580 - B600 - B582 - B602



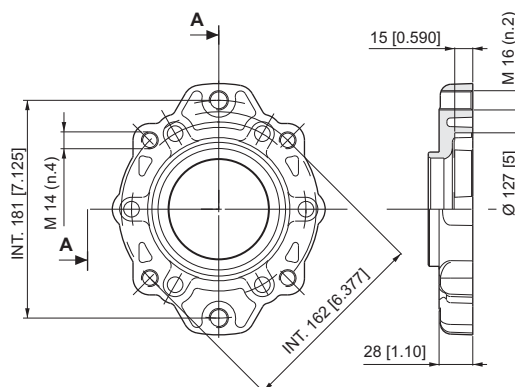
Gearbox
universal flanges



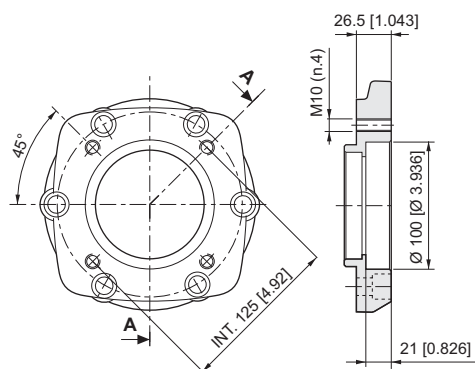
Type "A"
SAE A (2-4 holes)
Kit flange and screws: 14050012



Type "B"
SAE B (2-4 holes)
Kit flange and screws: 14050011

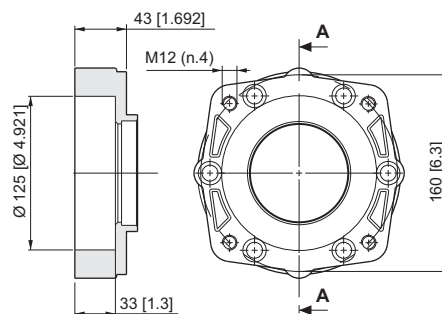


Type "C"
SAE C (2-4 holes)
Kit flange and screws: 14050055



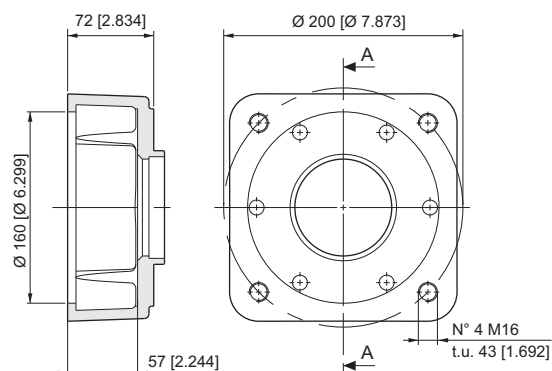
Type "L"
ISO 1

Kit flange and screws: 14050010



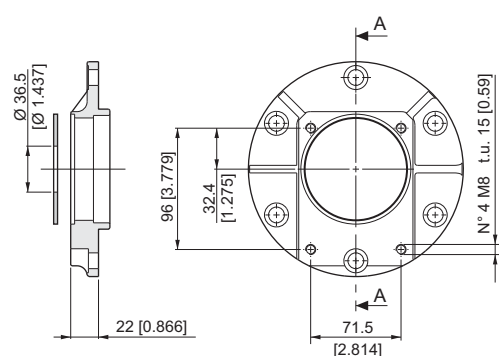
Type "M"
ISO 2

Kit flange and screws: 14050013



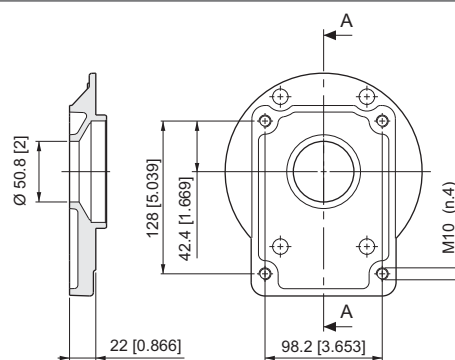
Type "P"
ISO 3

Kit flange and screws: 14050060



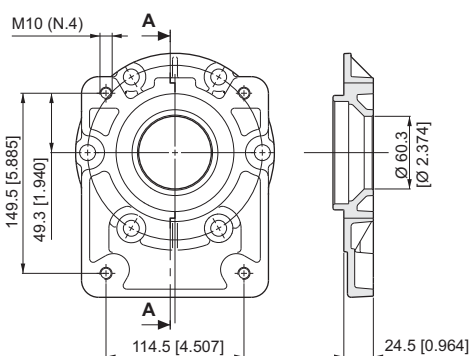
Type "D"
GR 2

Kit flange and screws: 14050008



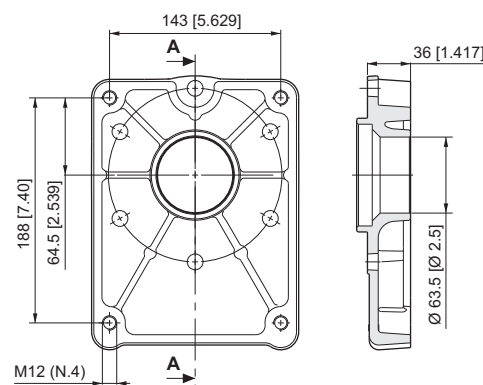
Type "E"
GR 3

Kit flange and screws: 14050005



Type "F"
GR 3,5

Kit flange and screws: 14050006



Type "G"
GR 4

Kit flange and screws: 14050062