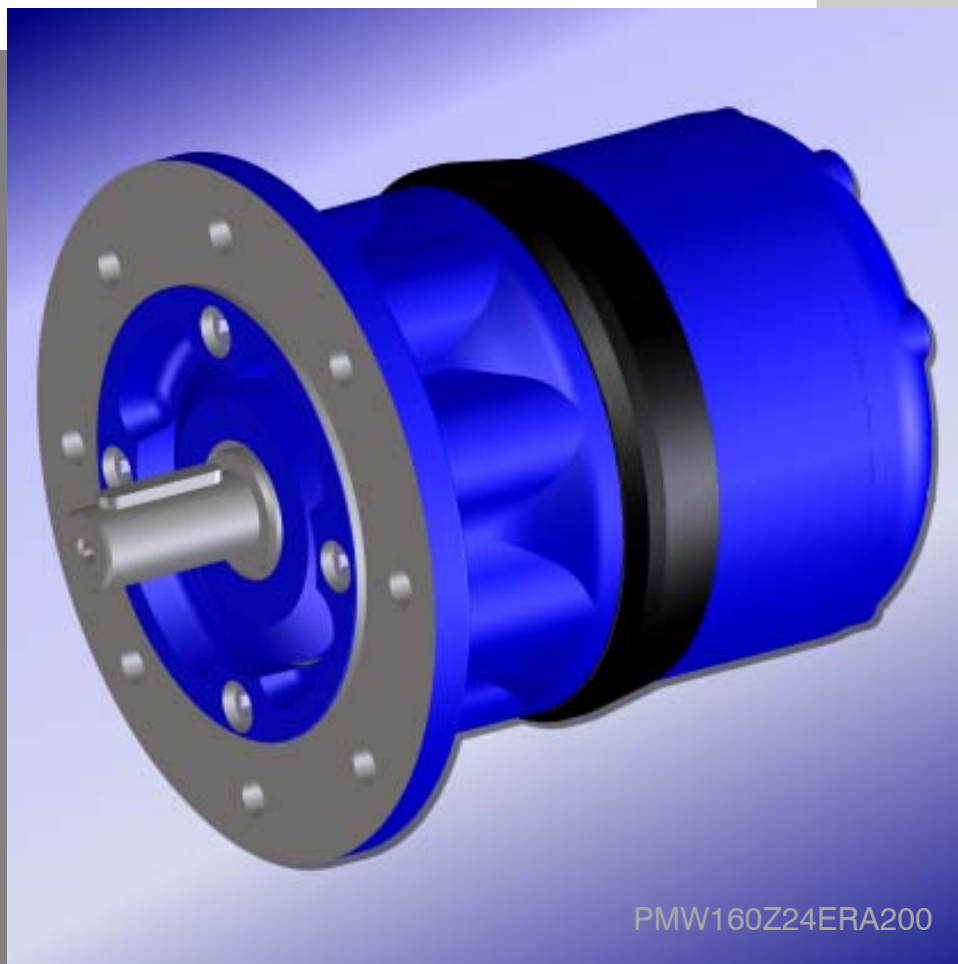




PNEUMATIC MOTORS

Pneumatic gearwheel motors

PMW 160 - PMW 530

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Air conditioner drives
Anchor winches
Assembly line drives

B Bend machines
Breaker

C Cat drives
Caterpillars
Chain conveyors
Chargers
Chemical mixer
Claw winches
Coke emitting machines
Cold-compressor drives
Concrete mixer
Concrete pumps
Convert-drives
Conveyor belts
Conveyor machines
Crane trains

D Drills
Drive helps
Driving-drives

E Elevators

F Fountain-drill-devices

H Hydraulic pumps

L Lifting devices
Lifting winches

M Mining plants
Mixer drives
Mixing plants
Motor drives

N Natural-drill-machines

P Paper machines
Pipeline-main-pusher-drives
Pump drives

R Raw iron mixer
Pipe cleaning devices
Rotary tables
Rudder machines

S Servo drives
Ship winches
Shipping vehicles
Starter
Steel work plants
Steering supporters
Stone drill machines
Swimming docks
Swivel machines

T Trains

U Under-water-drives

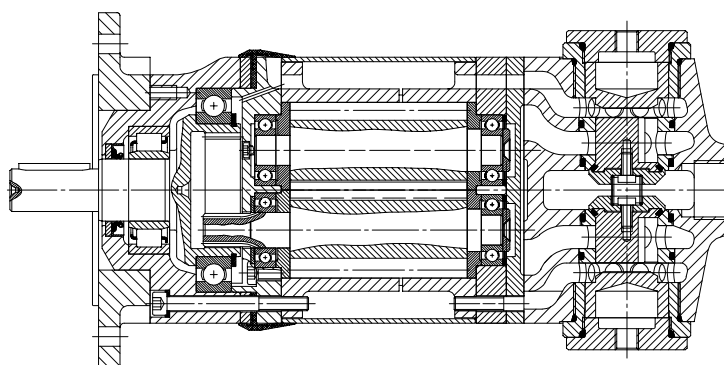
V Vehicle winches

W Winches
Winding machines

Take a closer look at our Pneumatic Motors...

rpm-adjustment by easy throttle control
 Direction change by way-valves with manual or remote control
 Higher start-torque than torque at max. power
 Save also in damp atmosphere and extreme climatical conditions
 With oiler for permanent operation and damp air
 Works with gas, air, nitrogen
 Special construction for operation with unoiiled air
 Time-unlimited overload also at stand still
 Due standardized flange- and shaft dimensions exchangeable with electro-motors

Particularly suited for operation in explosive environment
 Solid construction garantuees high operation security
 High life-time due hardened and grinded rotors
 Good silencing due long exhaust ways
 Additional silencers are available
 IEC flange- and shaft dimensions according DIN 42677
 Waterproofed



PMW530Z24PFA200

Pneumatic-Gearwheel-Motors PMW

Type	Geom. air consumption V_g (cm ³ /U.)	Torque T (Nm)		Revolutions span n (rpm)		Operating pressure p (bar)		Power nominal P (kW)	Air consumption nominal Q (m ³ /min)
		Start	Nominal	Nominal	maximal	Nominal	maximal		
PMW 160	155	10 - 15	9	3000	5000	6	10	2,8	3,9
PMW 250	258	16 - 24	15	3000	5000	6	10	4,7	6,0
PMW 400	387	23 - 34	22	3000	5000	6	10	6,9	8,4
PMW 530	516	30 - 43	27	3000	5000	6	10	8,5	12,0

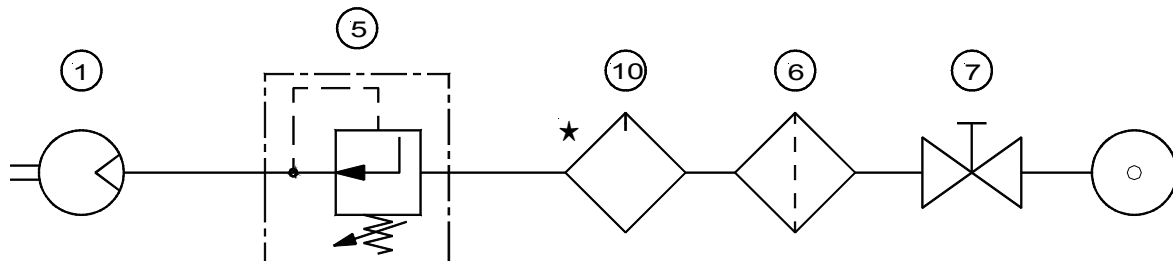
Principle of function

Series PMW 160 - PMW 530

Through different steering-covers gets the compressed air on two straight toothed steelrotors, wich are in a casted housing with bearing for permanent operation. At the bringing down the drive rotor runs in a gearwheel of a beared and sealed drive shaft; by a transmission the revolutions can be reduced. The relaxed air escapes thread with silencer in the environment or will be recycled by the exhaust thread. In damp air a oiler is recommended to avoid corrosion.

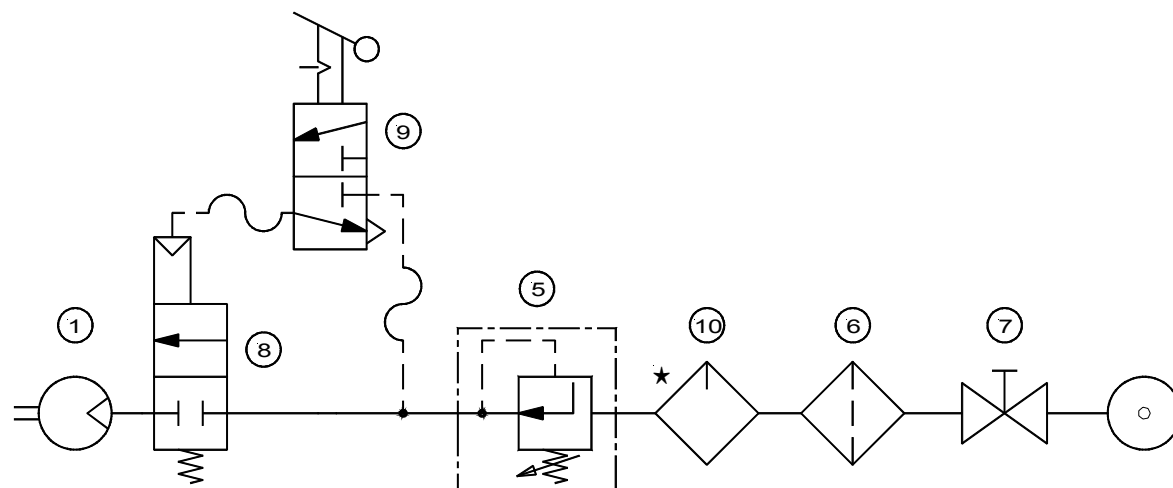
1) Motor version: One direction EL / ER Operating with sphere valve POS 7

Left running EL
Right running ER

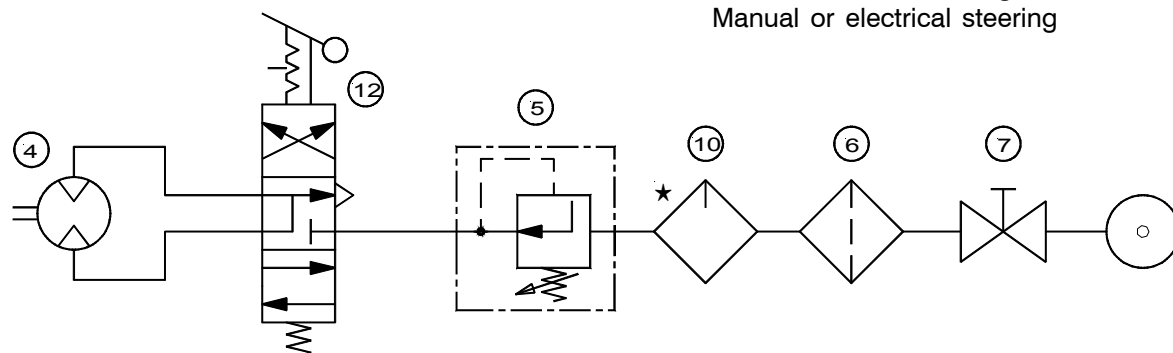


2) Motor version: One direction EL / ER Operating with way-valve POS 8.
Manual or electrical steering

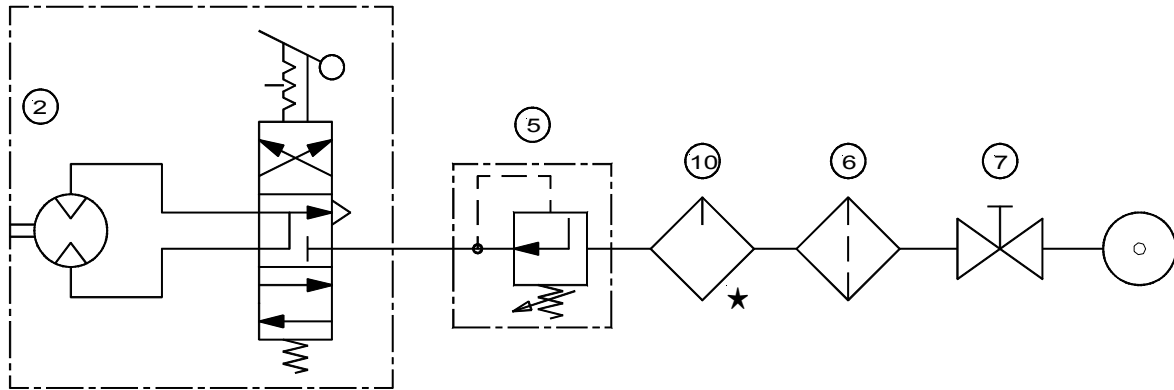
Left running EL
Right running ER



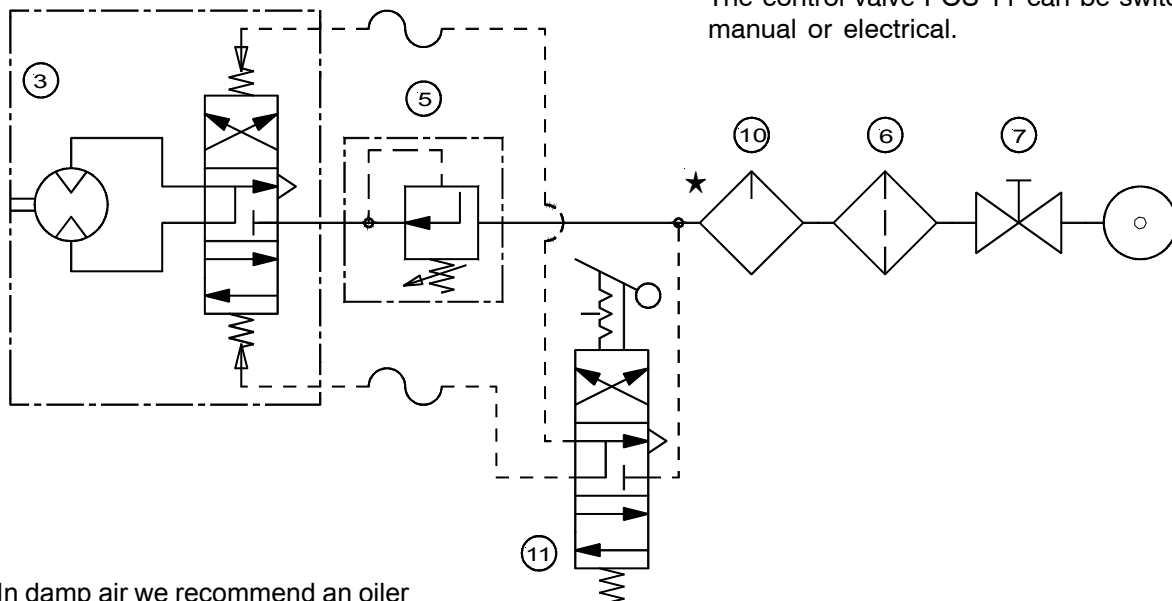
3) Motor version: Two directions PU The external valve POS 12 has three conditions:
Closed, left switched, right switched.
Manual or electrical steering



- 4) Motor version: Two directions ML / MR Two directions, with integrated 4/3 way valve and manual control.
- hand lever left ML
- hand lever right MR



- 5) Motor version: Two directions PF Two directions, with integrated 4/3 way valve and pneumatic control. The control valve POS 11 can be switched manual or electrical.



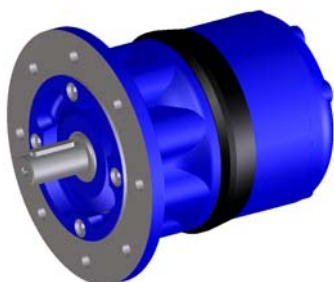
* In damp air we recommend an oiler

POS	Description	Remarks	
1	Pneumatic Motor	PMW EL / ER	The connection-lines from the air supply to the pneumatic motor at max. motor power: PMW 160 - PMW 250 = G1 PMW 400 - PMW 530 = G1 1/2
2	Pneumatic Motor	PMW ML / MR	
3	Pneumatic Motor	PMW PF	
4	Pneumatic Motor	PMW PU	
5	Pressure Regulator	G3/4 or G1	
6	Dirt trap	G1 or G1 1/2	
7	Sphere valve	G3/4 or G1	
8	Way valve	G3/4 or G1	
9	3/2 way valve	DN 7	
10	Oiler	G3/4 or G1	
11	4/3 way valve	DN 7	
12	4/3 way valve	G3/4 or G1	

ev. sphere valve

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PMW160Z24ERA200

Operating instructions and maintenance on separate datasheet
Nr.: 02.000.087AE
Lubrication instructions and oil changes of planetary gear on
separate datasheet No: PG1 - 010E

Motor characteristics

Geometric displacement volume	$V_g = 155$	ccm/rev
Nominal pressure	$p_N = 85$	PSI
max. operating pressure	$p_{max} = 140$	PSI
Nominal speed	$n_N = 3000$	rpm
max. speed	$n_{max} = 4000$	rpm

Technical data at $n=3000$ rpm ; $p=6$ bar

Nominal air consumption	$Q_{abs} = 3,9$	Nm ³ /min
Nominal torque	$T_N = 9$	Nm
minimal start torque	$T_A = 10$	Nm
maximal start torque	$T_A = 15$	Nm
Nominal power	$P_N = 2,8$	kW

Pressure medium:

Compressed air

if the compressed air is damp, we recommend
an oiler.

Nitrogen, natural gas etc.

in case of order please indicate the medium.

Mounting position: any

Direction of rotation: Looking at drive off shaft cone
Please see data sheet

Control types:

EL/ER : One direction left running / one direction right running.

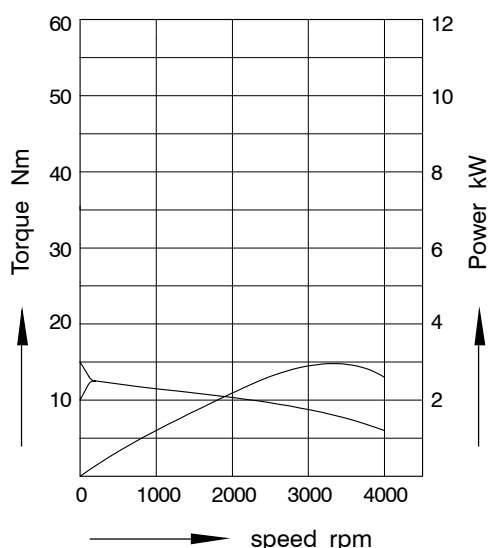
PU/PU1 : Running in two directions with remote control.

Additional compressed air escapes over air-outlet cuff or air-outlet thread. PU1 with added steering connections G1/4.

PF : With integrated valves, depending on control- left or right running. Control pressure $p = 3 - 10$ bar for direction- left or right and neutral position. By exoneration control pressure, neutral position.

ML/MR : A hand lever controls the left- or right running and neutral position on control type PF.

Characteristic line at 85 PSI



Power, torque and air consumption are rising proportional about the working pressure.

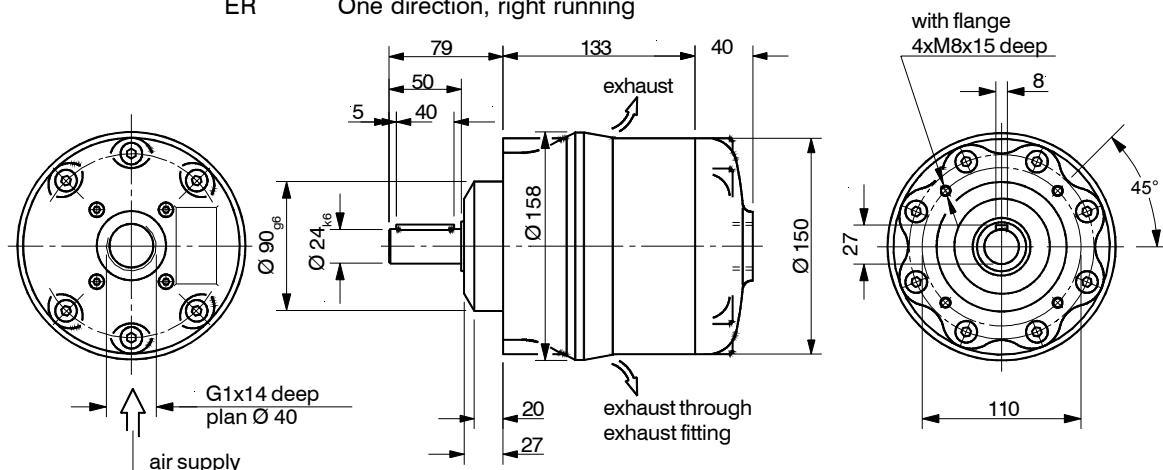
Ordering data for pneumatic gearwheel motor PMW 160

Motor type	Nominal size	Drive shaft	Exhaust	Controlling	Additional data
PMW	160	with key $\varnothing 24$ Z24 $\varnothing 28$ Z28	fitting thread G1½ W thread G1½ with silencer WS	1 direction of rotation right ER left EL 2 directions of rotation PU PU1 Remote control 2 directions of rotation PF Hand lever control right MR left ML	Flange DIN 42948 A200 A250 A300 A350 B14 Foot B3

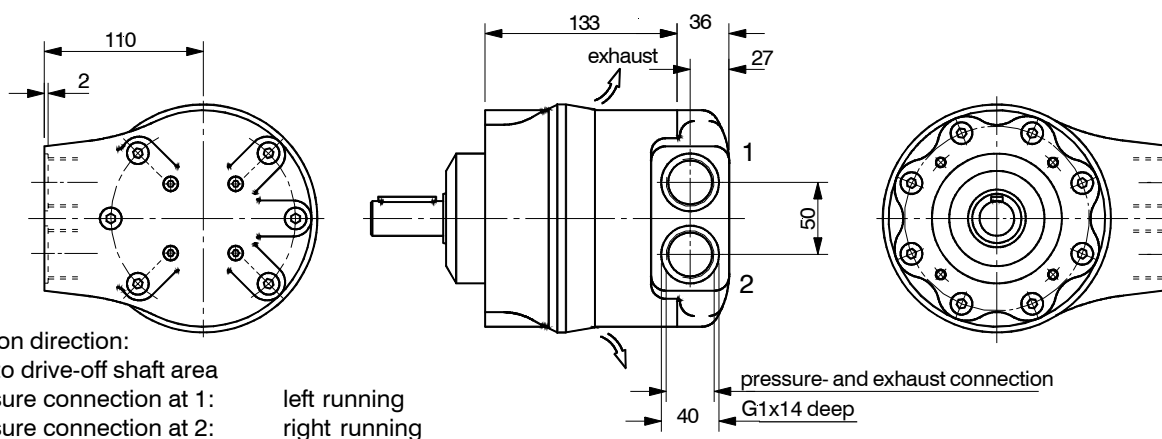
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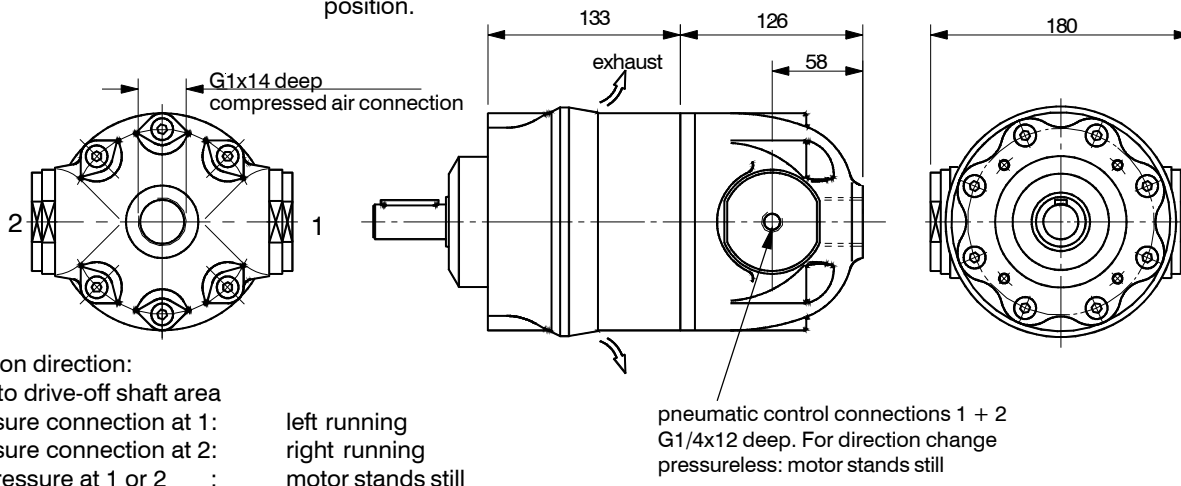
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 17,5 kg
 DIN 6885 A 8x7x40
 Steering control: EL One direction, left running
 ER One direction, right running



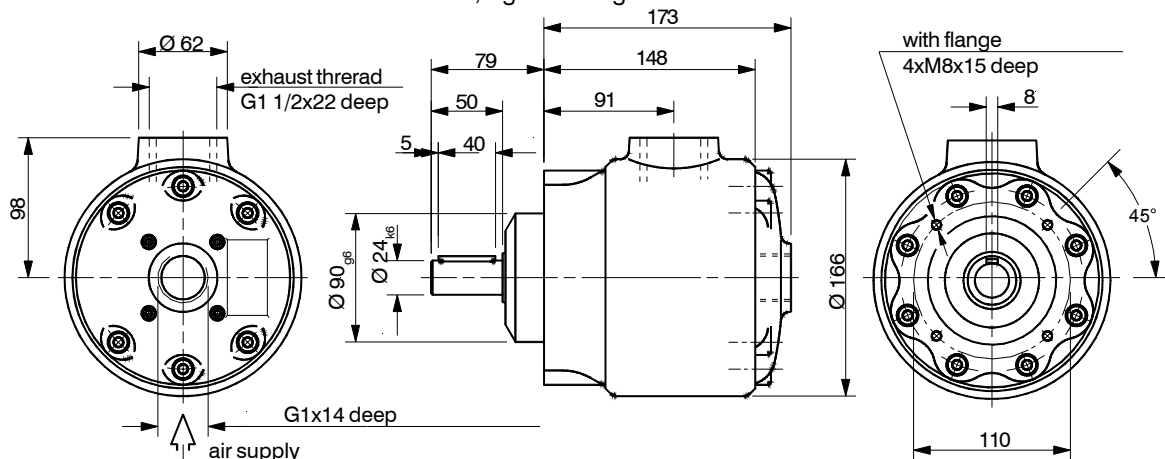
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 21 kg
 DIN 6885 A 8x7x40
 Steering control: PU Two directions
 PU1 additional two steering connections G1/4 additional dimensions



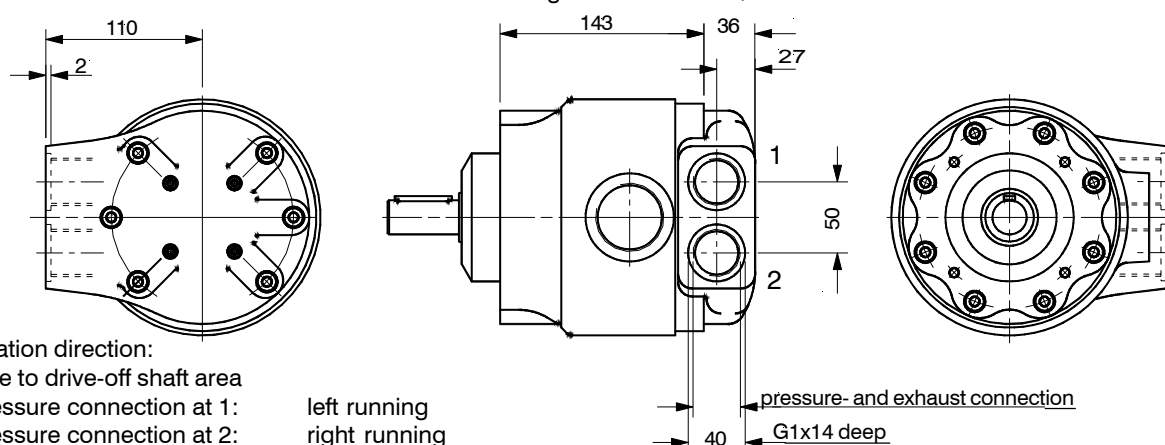
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 24 kg
 DIN 6885 A 8x7x40
 Steering control: PF Two directions with locking PF additional dimensions
 position.



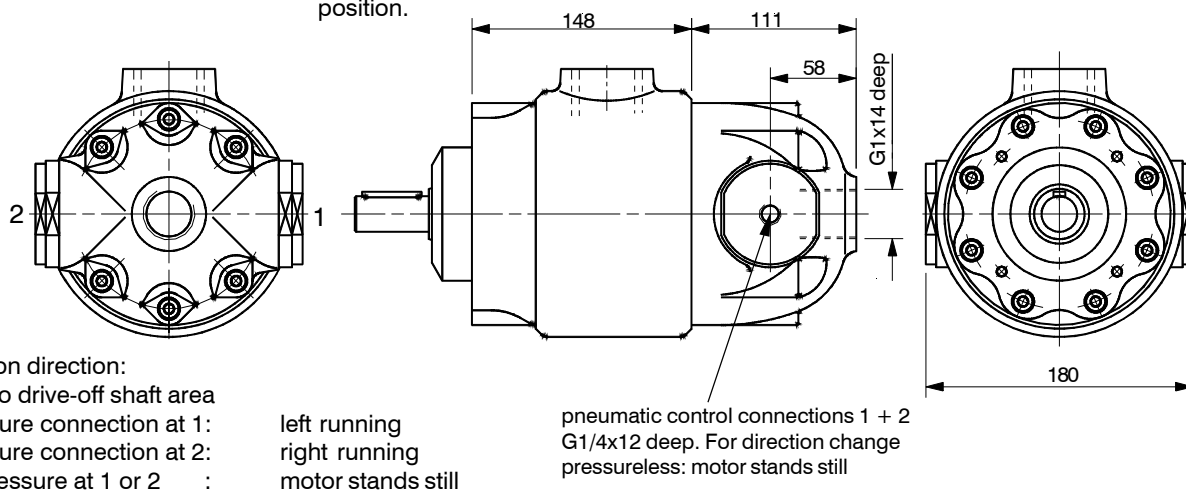
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 18,5 kg
DIN 6885 A 8x7x40
Steering control: EL One direction, left running
ER One direction, right running



Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 22 kg
DIN 6885 A 8x7x40
Steering control: PU Two directions additional dimensions
PU1 additional 2 steering connections G 1/4



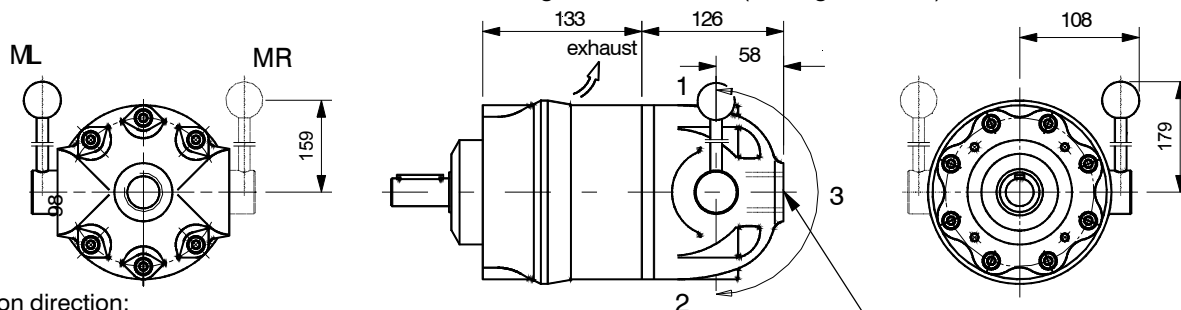
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 25 kg
DIN 6885 A 8x7x40
Steering control: PF Two directions with locking PF additional dimensions
position.



Basic version with exhaust fitting

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 24 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

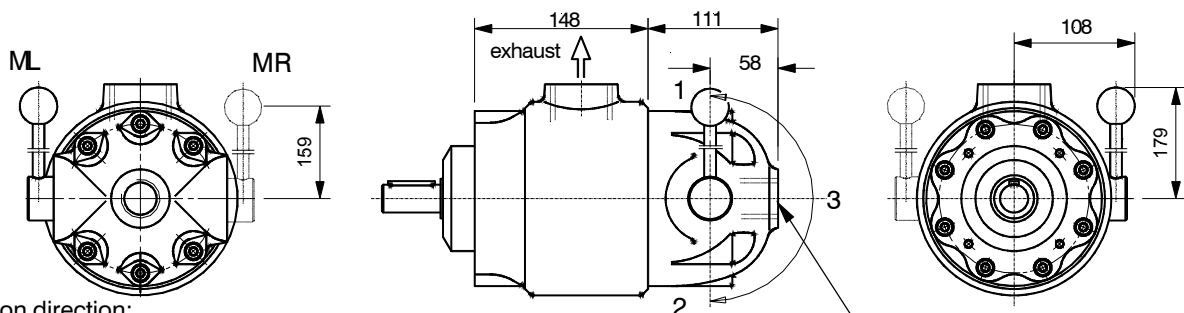
lever position at 1: left running
lever position at 2: right running
lever position at 3: motor stands still

air supply G1x14 deep

Basic version with exhaust thread

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 25 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

pressure connection at 1: left running
pressure connection at 2: right running

air supply G1x14 deep

Accessories:

Drive-off flange:

Dimensions according IEC 72 part 7 (electric motors)
and DIN 42948
A200; A250; A300; A350; B14

Feet version:

Dimensions according IEC 72 B3 (electric motors)
and DIN 42948

Silencer:

Only for version "W" with exhaust thread to deliver

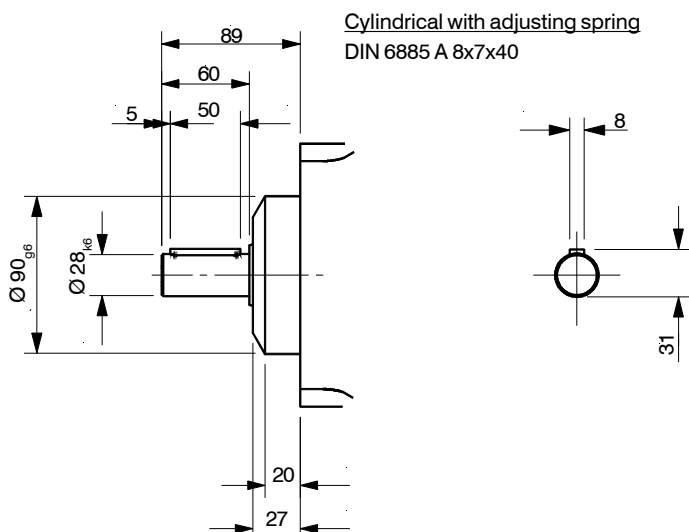
Throttle device:

For exhaust speed regulation
Only for version "W" with exhaust thread to deliver

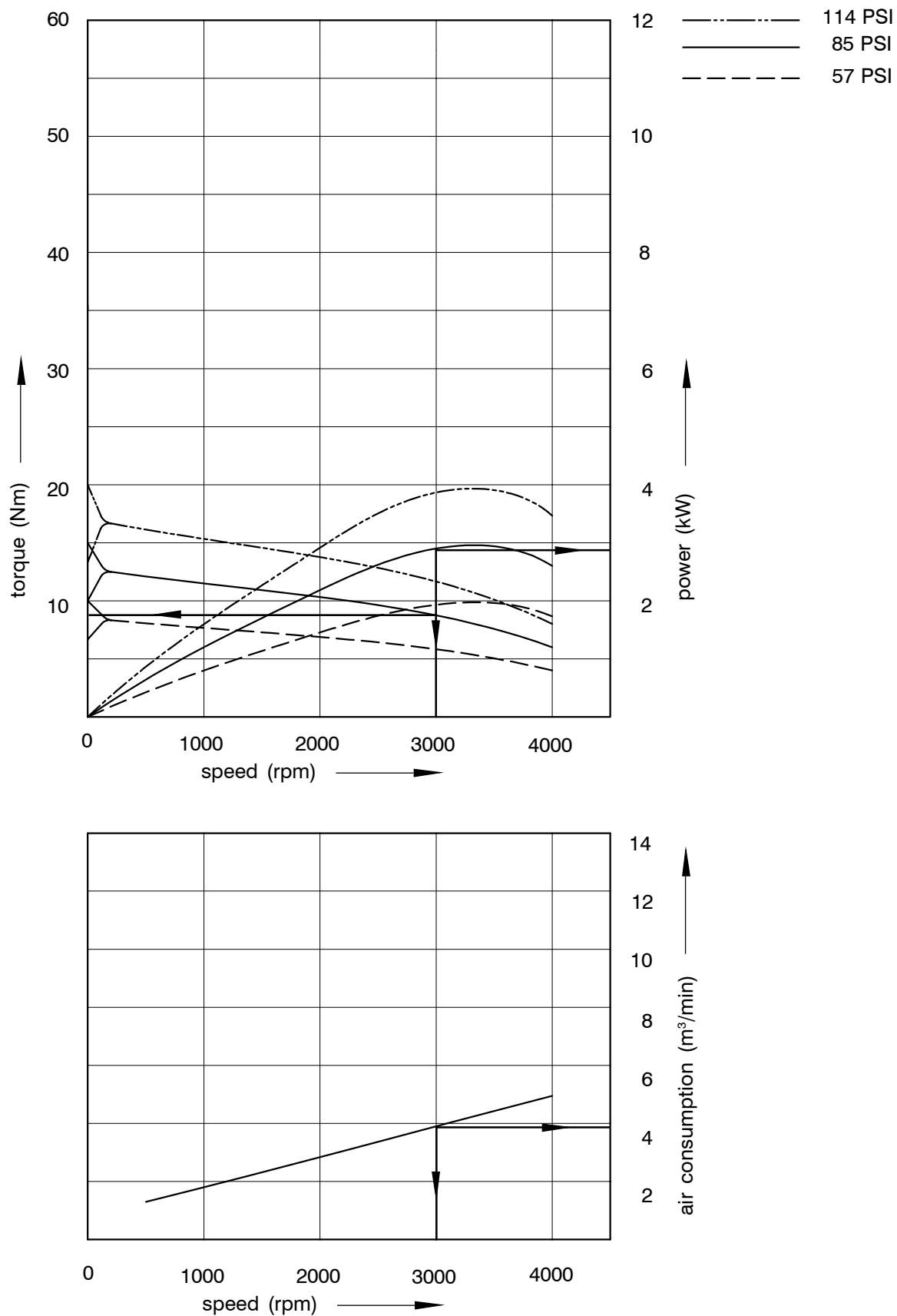
Combined with gear and/or holding brake

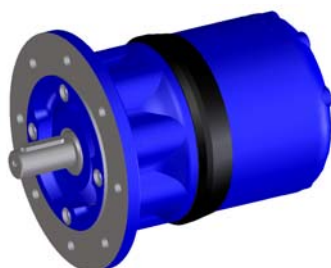
For individual motor solutions

Drive-off shaft: Z28



Cylindrical with adjusting spring
DIN 6885 A 8x7x40





PMW250Z24ERA200

Operating instructions and maintenance on separate datasheet
Nr.: 02.000.087AE
Lubrication instructions and oil changes of planetary gear on
separate datasheet No: PG1 - 010E

Motor characteristics

Geometric displacement volume	$V_g = 258$	ccm/rev
Nominal pressure	$p_N = 85$	PSI
max. operating pressure	$p_{max} = 140$	PSI
Nominal speed	$n_N = 3000$	rpm
max. speed	$n_{max} = 4000$	rpm

Technical data at $n=3000$ rpm ; $p=6$ bar

Nominal air consumption	$Q_{abs} = 6$	Nm ³ /min
Nominal torque	$T_N = 15$	Nm
minimal start torque	$T_A = 16$	Nm
maximal start torque	$T_A = 24$	Nm
Nominal power	$P_N = 4,7$	kW

Pressure medium:

Compressed air

if the compressed air is damp, we recommend
an oiler.

Nitrogen, natural gas etc.

in case of order please indicate the medium.

Mounting position: any

Direction of rotation: Looking at drive off shaft cone
Please see data sheet

Control types:

EL/ER : One direction left running / one direction right running.

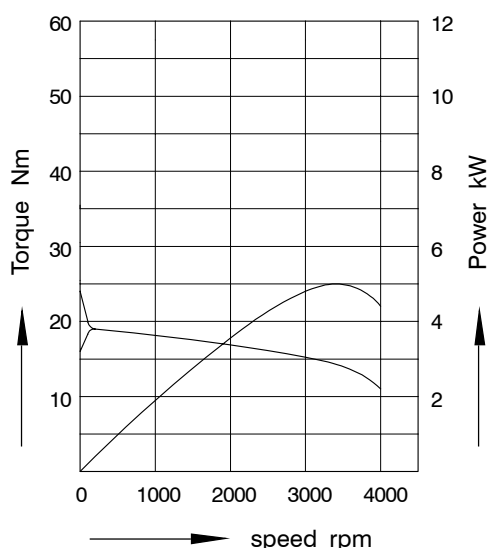
PU/PU1 : Running in two directions with remote control.

Additional compressed air escapes over air-outlet cuff or air-outlet thread. PU1 with added steering connections G1/4.

PF : With integrated valves, depending on control- left or right running. Control pressure $p = 3 - 10$ bar for direction- left or right and neutral position. By exoneration control pressure, neutral position.

ML/MR : A hand lever controls the left- or right running and neutral position on control type PF.

Characteristic line at 85 PSI



Power, torque and air consumption are rising proportional about the working pressure.

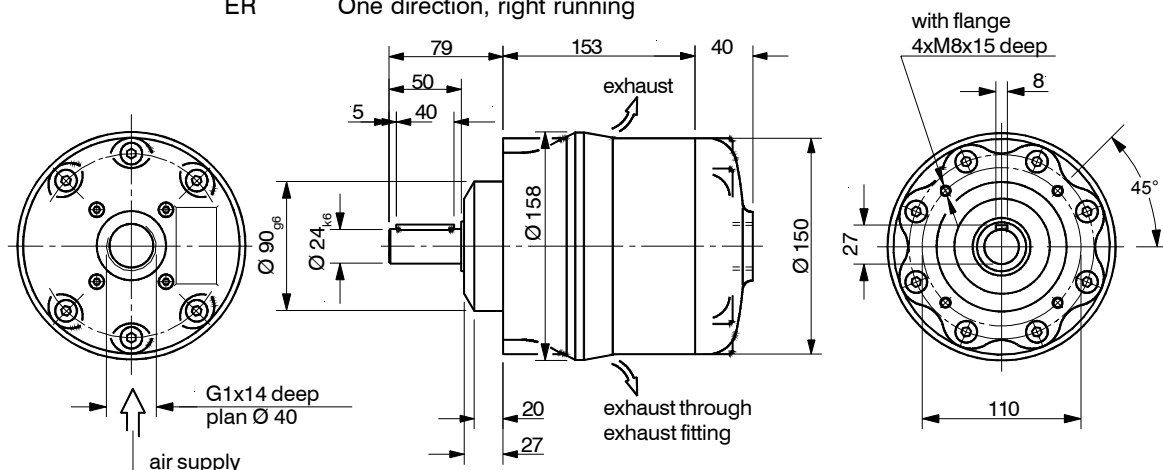
Ordering data for pneumatic gearwheel motor PMW 250

Motortype	Nominal size	Drive shaft	Exhaust	Controlling	Additional data
PMW	250	with key $\varnothing 24$ ☐ Z24 $\varnothing 28$ ☐ Z28	fitting ☐ thread G1½ ☐ W thread G1½ ☐ WS with silencer ☐	1 direction of rotation right ☐ ER left ☐ EL 2 directions of rotation ☐ PU ☐ PU1 Remote control 2 directions of rotation ☐ PF Hand lever control right ☐ MR left ☐ ML	☐ Flange DIN 42948 ☐ A200 ☐ A250 ☐ A300 ☐ A350 ☐ B14 Foot ☐ B3

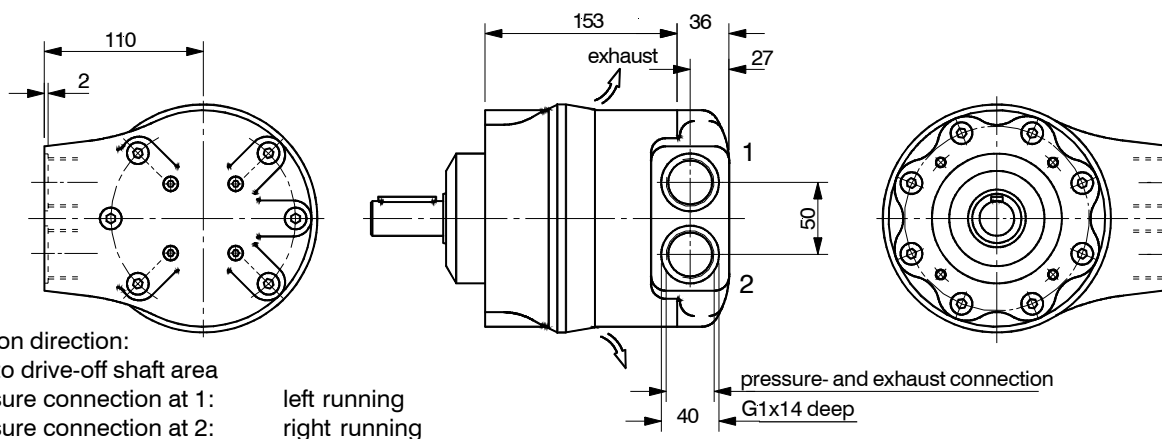
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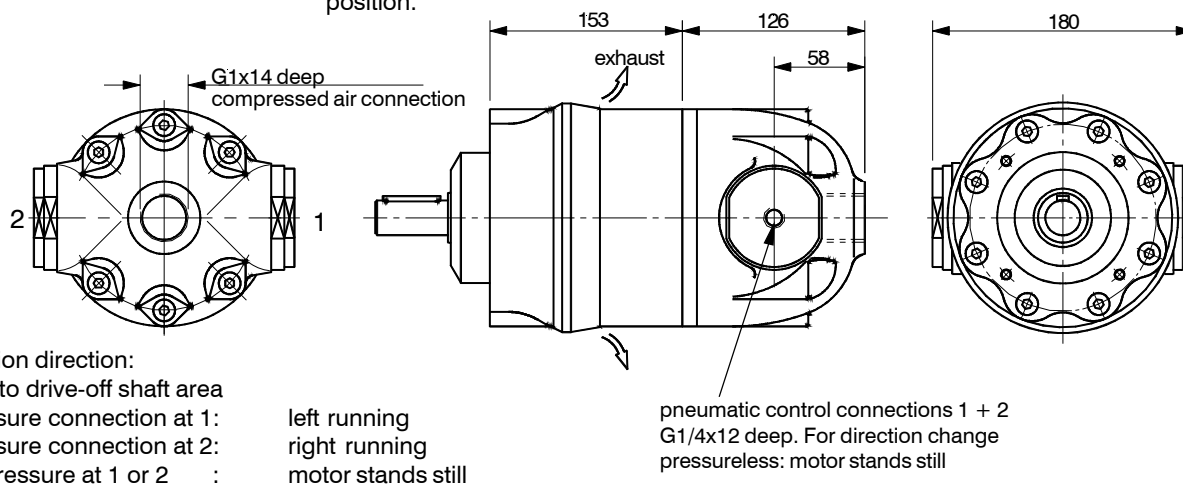
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 19 kg
 DIN 6885 A 8x7x40
 Steering control: EL One direction, left running
 ER One direction, right running



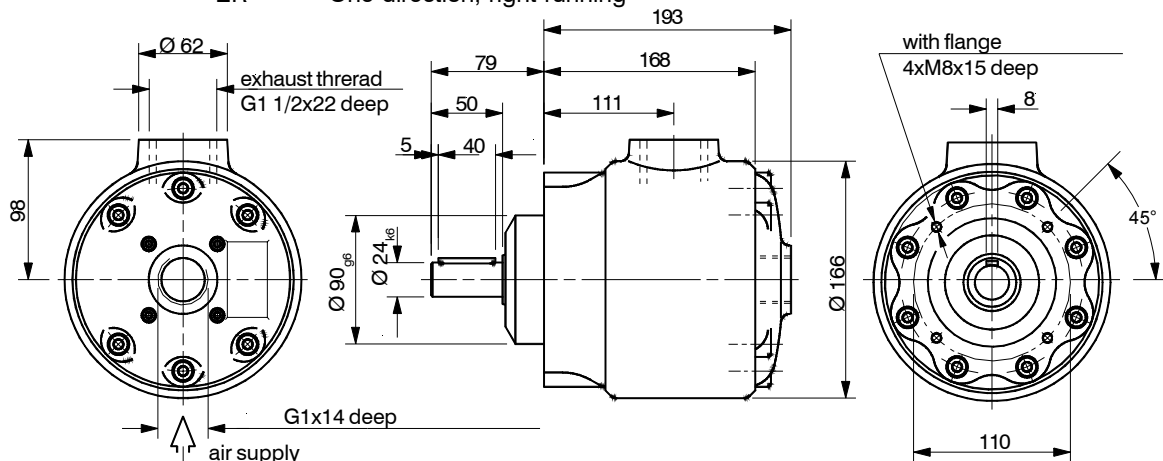
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 22,5 kg
 DIN 6885 A 8x7x40
 Steering control: PU Two directions
 PU1 additional two steering connections G1/4 additional dimensions



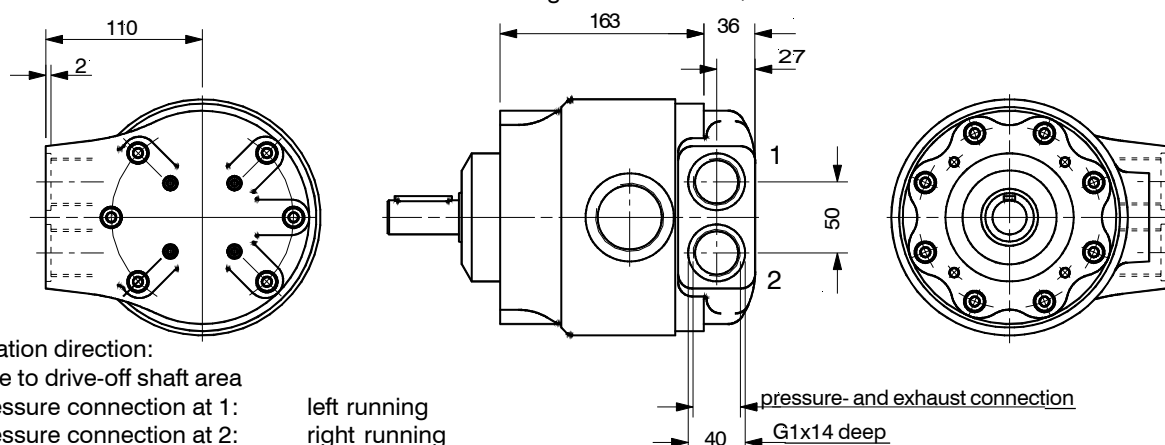
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 22,5 kg
 DIN 6885 A 8x7x40
 Steering control: PF Two directions with locking PF additional dimensions
 position.



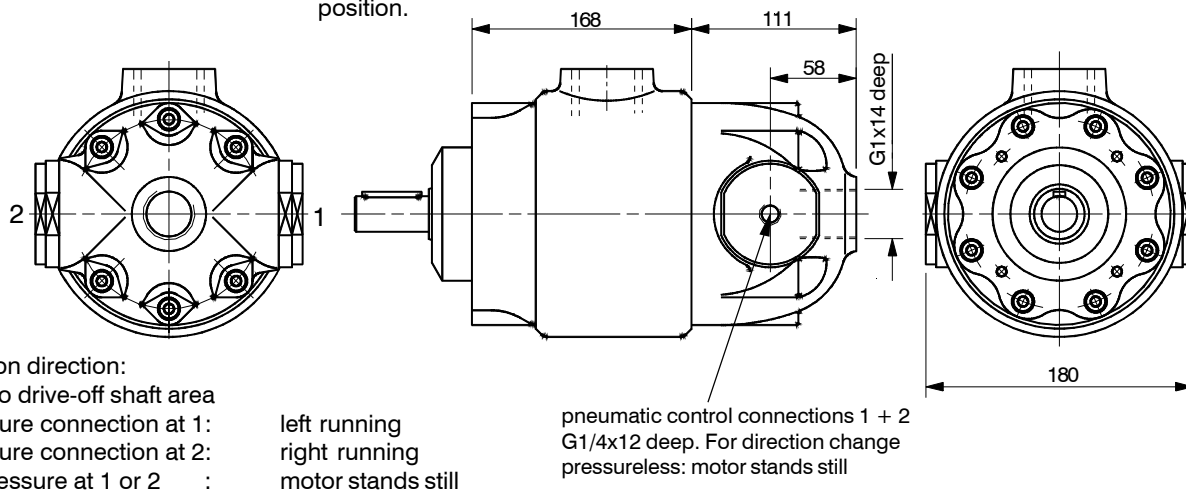
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 20 kg
DIN 6885 A 8x7x40
Steering control: EL One direction, left running
ER One direction, right running



Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 23,5 kg
DIN 6885 A 8x7x40
Steering control: PU Two directions additional dimensions
PU1 additional 2 steering connections G 1/4



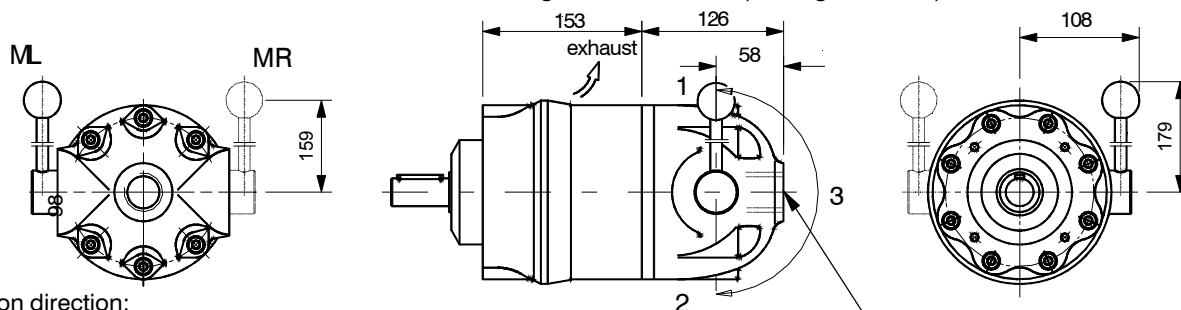
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 26,5 kg
DIN 6885 A 8x7x40
Steering control: PF Two directions with locking PF additional dimensions
position.



Basic version with exhaust fitting

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 25,5 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

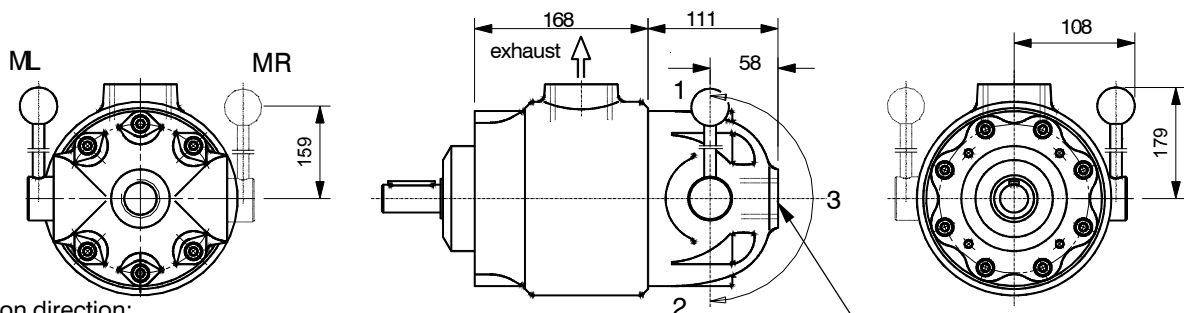
lever position at 1: left running
lever position at 2: right running
lever position at 3: motor stands still

air supply G1x14 deep

Basic version with exhaust thread

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 26,5 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

pressure connection at 1: left running
pressure connection at 2: right running

air supply G1x14 deep

Accessories:

Drive-off flange:

Dimensions according IEC 72 part 7 (electric motors)
and DIN 42948
A200; A250; A300; A350; B14

Feet version:

Dimensions according IEC 72 B3 (electric motors)
and DIN 42948

Silencer:

Only for version "W" with exhaust thread to deliver

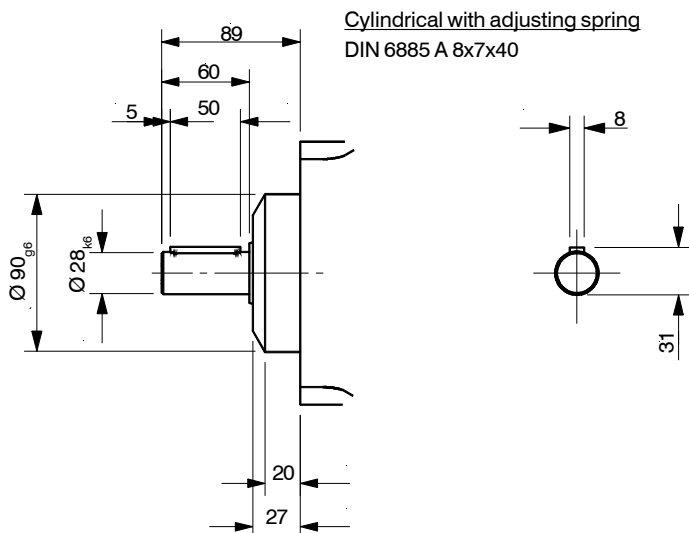
Throttle device:

For exhaust speed regulation
Only for version "W" with exhaust thread to deliver

Combined with gear and/or holding brake

For individual motor solutions

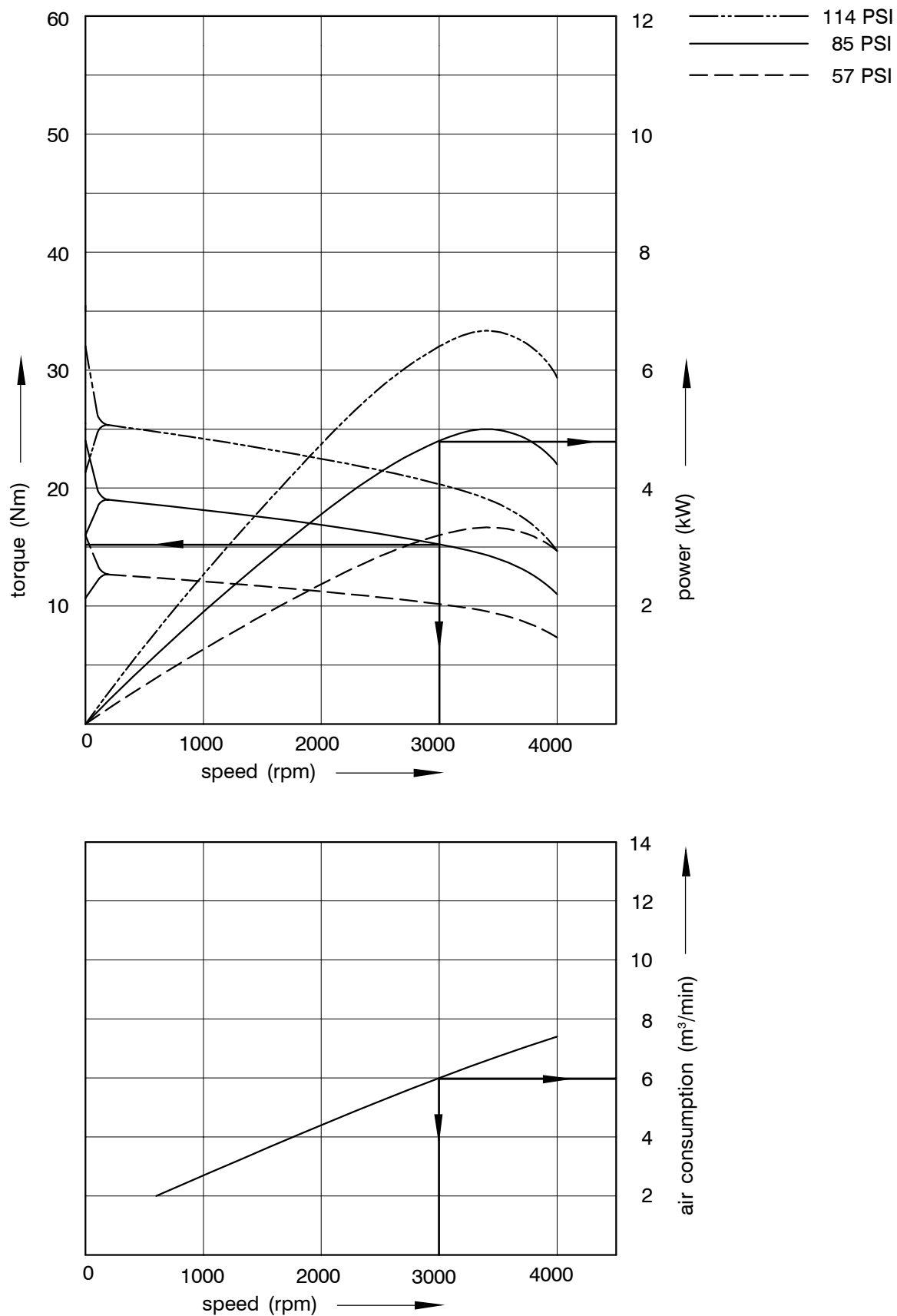
Drive-off shaft: Z28

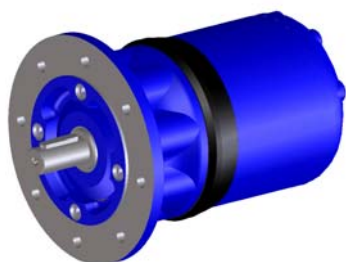


Cylindrical with adjusting spring
DIN 6885 A 8x7x40

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PMW400Z24ERA200

Operating instructions and maintenance on separate datasheet
Nr.: 02.000.087AE
Lubrication instructions and oil changes of planetary gear on
separate datasheet No: PG1 - 010E

Motor characteristics

Geometric displacement volume	$V_g = 387$	ccm/rev
Nominal pressure	$p_N = 85$	PSI
max. operating pressure	$p_{max} = 140$	PSI
Nominal speed	$n_N = 3000$	rpm
max. speed	$n_{max} = 4000$	rpm

Technical data at $n=3000$ rpm ; $p=6$ bar

Nominal air consumption	$Q_{abs} = 8,4$	Nm ³ /min
Nominal torque	$T_N = 22$	Nm
minimal start torque	$T_A = 23$	Nm
maximal start torque	$T_A = 34$	Nm
Nominal power	$P_N = 6,9$	kW

Pressure medium:

Compressed air

if the compressed air is damp, we recommend
an oiler.

Nitrogen, natural gas etc.

in case of order please indicate the medium.

Mounting position: any

Direction of rotation: Looking at drive off shaft cone
Please see data sheet

Control types:

EL/ER : One direction left running / one direction right running.

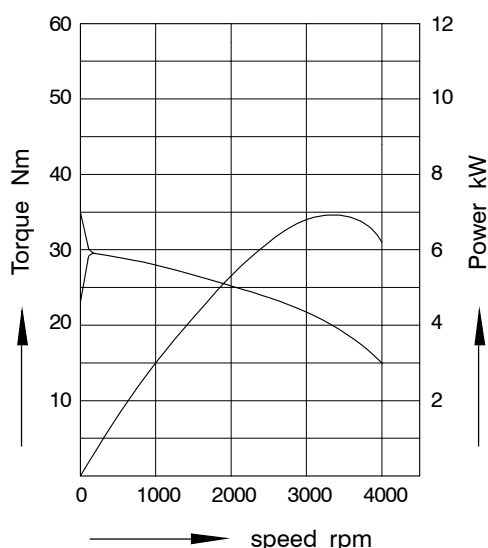
PU/PU1 : Running in two directions with remote control.

Additional compressed air escapes over air-outlet cuff or air-outlet thread. PU1 with added steering connections G1/4.

PF : With integrated valves, depending on control- left or right running. Control pressure $p = 3 - 10$ bar for direction- left or right and neutral position. By exoneration control pressure, neutral position.

ML/MR : A hand lever controls the left- or right running and neutral position on control type PF.

Characteristic line at 85 PSI



Power, torque and air consumption are rising proportional about the working pressure.

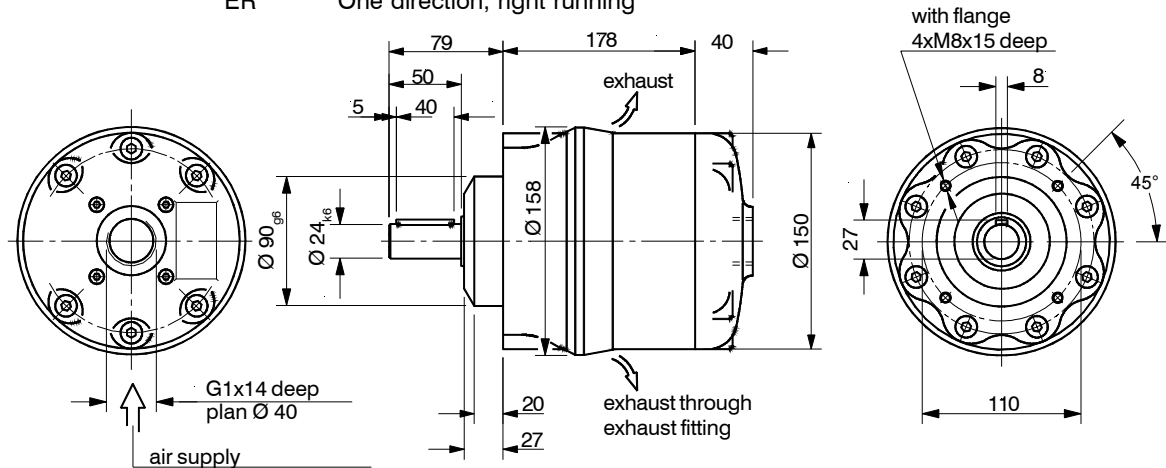
Ordering data for pneumatic gearwheel motor PMW 400

Motor type	Nominal size	Drive shaft	Exhaust	Controlling	Additional data
PMW	400	with key $\varnothing 24$ ☐ Z24 $\varnothing 28$ ☐ Z28	fitting ☐ thread G1½ ☐ W thread G1½ ☐ WS with silencer ☐	1 direction of rotation right ☐ ER left ☐ EL 2 directions of rotation ☐ PU ☐ PU1 Remote control 2 directions of rotation ☐ PF Hand lever control right ☐ MR left ☐ ML	☐ Flange DIN 42948 ☐ A200 ☐ A250 ☐ A300 ☐ A350 ☐ B14 Foot ☐ B3

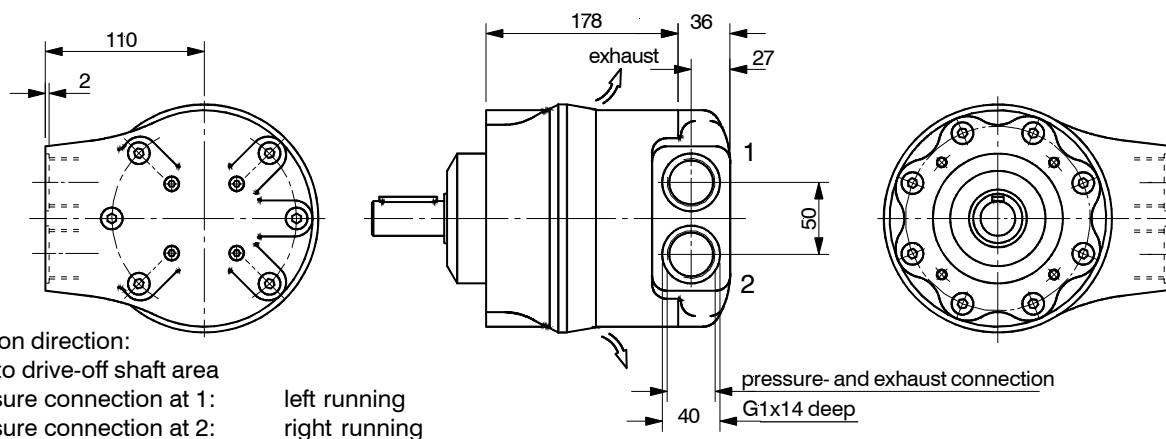
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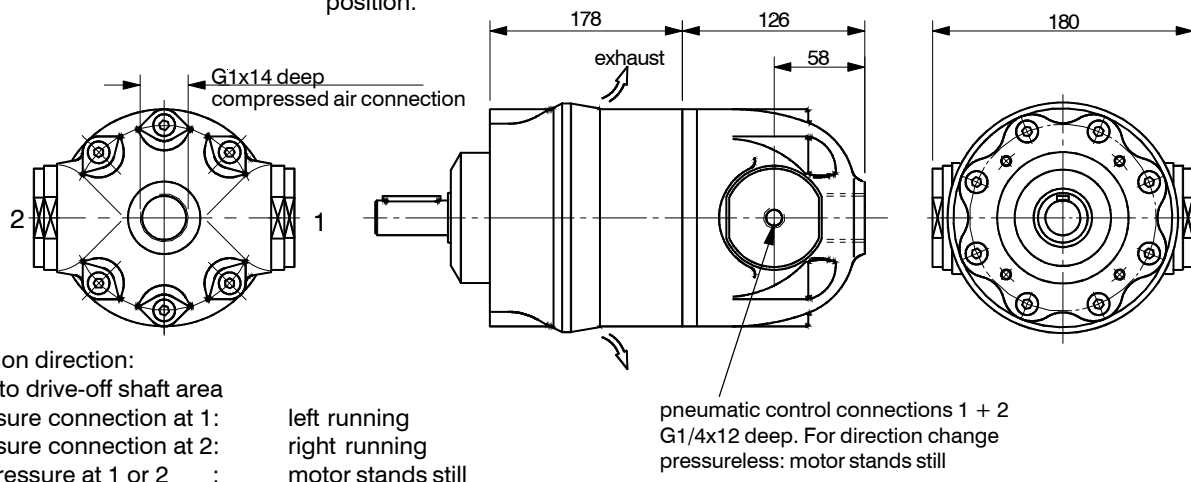
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 21 kg
DIN 6885 A 8x7x40
Steering control: EL One direction, left running
ER One direction, right running



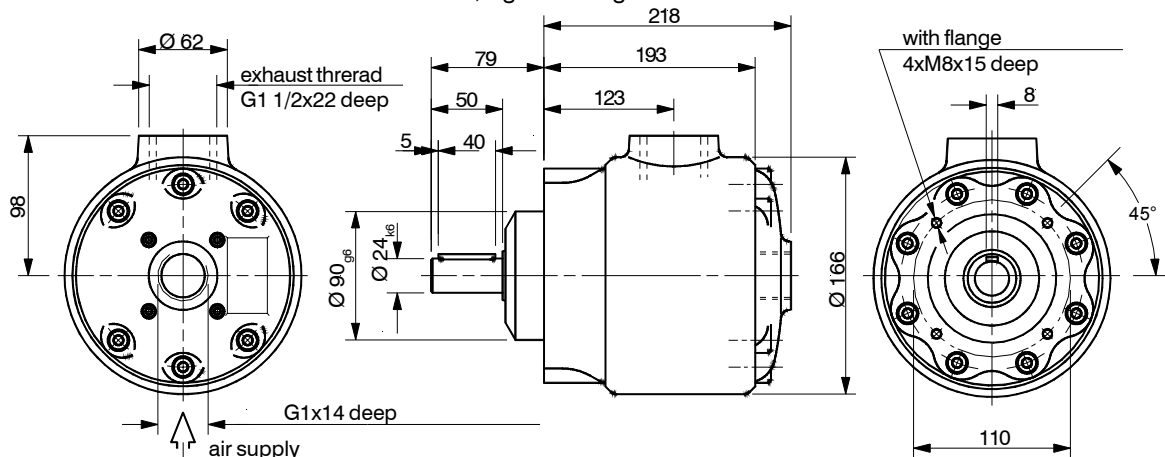
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 24,5 kg
DIN 6885 A 8x7x40
Steering control: PU Two directions
PU1 additional two steering connections G1/4 additional dimensions



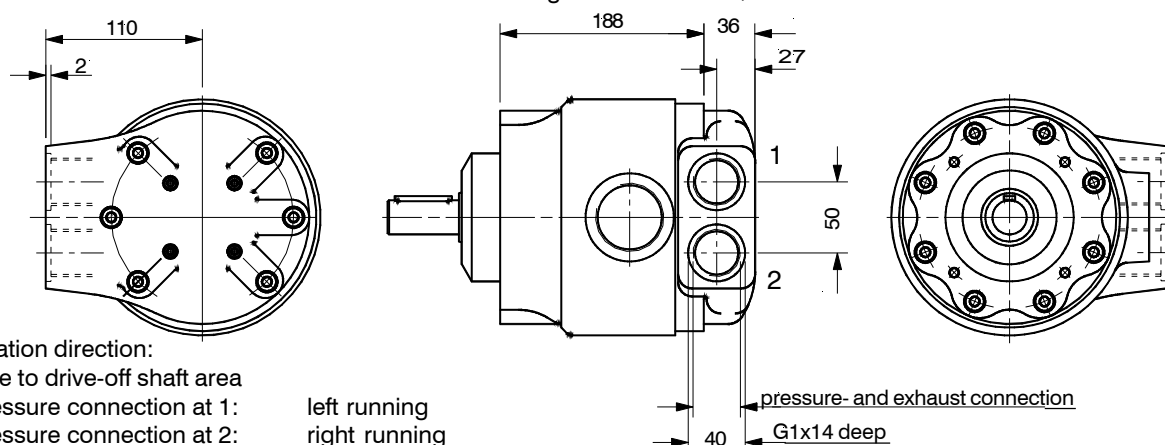
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 27,5 kg
DIN 6885 A 8x7x40
Steering control: PF Two directions with locking PF additional dimensions
position.



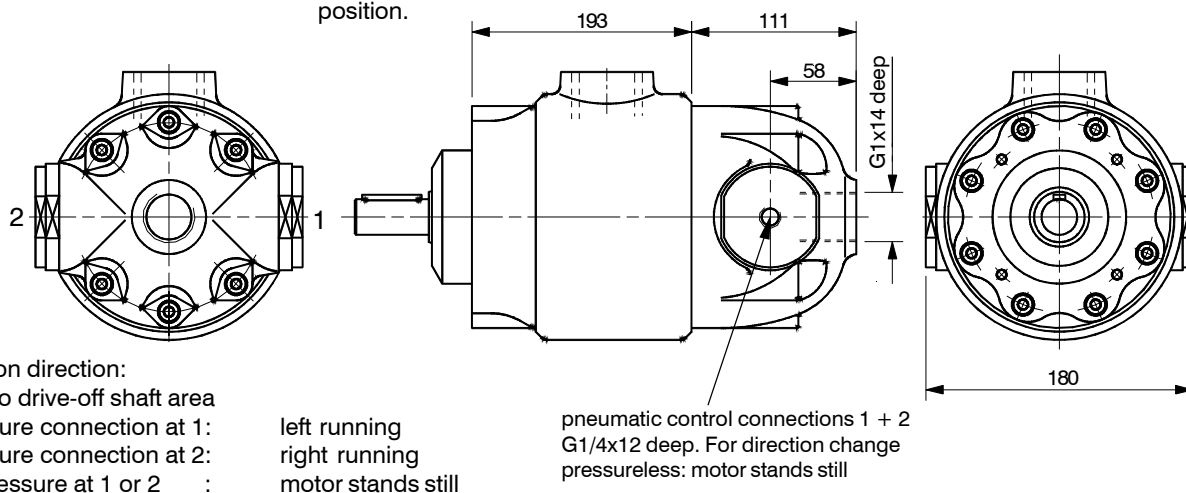
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 22 kg
DIN 6885 A 8x7x40
Steering control: EL One direction, left running
ER One direction, right running



Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 25,5 kg
DIN 6885 A 8x7x40
Steering control: PU Two directions additional dimensions
PU1 additional 2 steering connections G 1/4



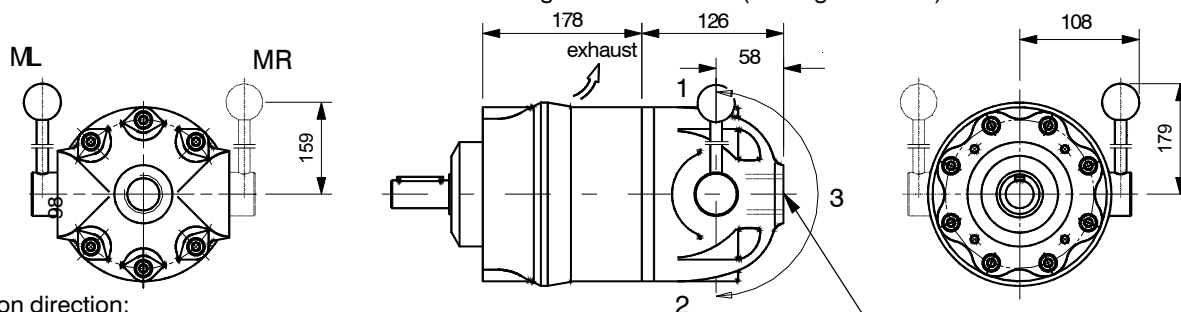
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 28,5 kg
DIN 6885 A 8x7x40
Steering control: PF Two directions with locking PF additional dimensions
position.



Basic version with exhaust fitting

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 27,5 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

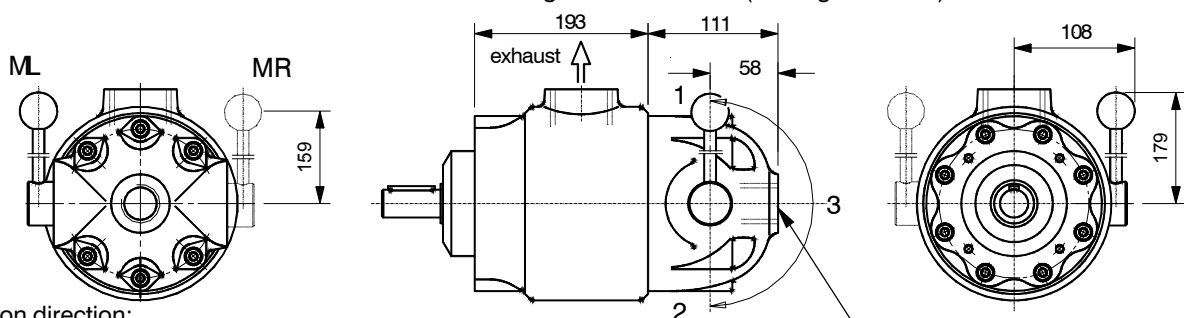
lever position at 1: left running
lever position at 2: right running
lever position at 3: motor stands still

air supply G1x14 deep

Basic version with exhaust thread

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 28,5 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

pressure connection at 1: left running
pressure connection at 2: right running

air supply G1x14 deep

Accessories:

Drive-off flange:

Dimensions according IEC 72 part 7 (electric motors)
and DIN 42948
A200; A250; A300; A350; B14

Feet version:

Dimensions according IEC 72 B3 (electric motors)
and DIN 42948

Silencer:

Only for version "W" with exhaust thread to deliver

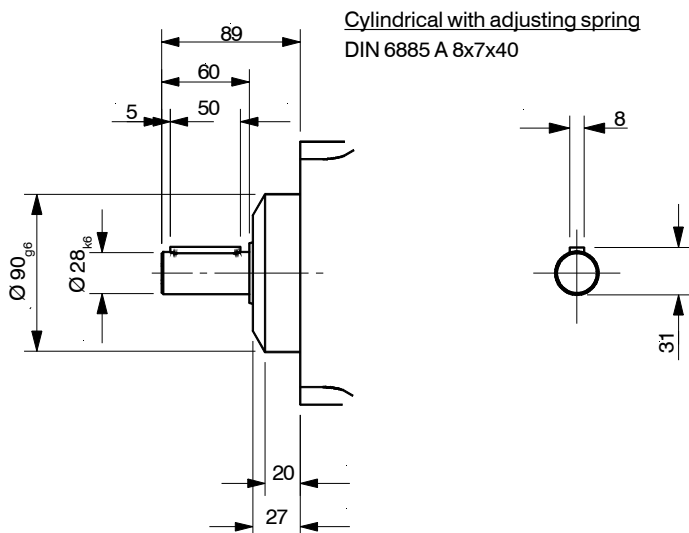
Throttle device:

For exhaust speed regulation
Only for version "W" with exhaust thread to deliver

Combined with gear and/or holding brake

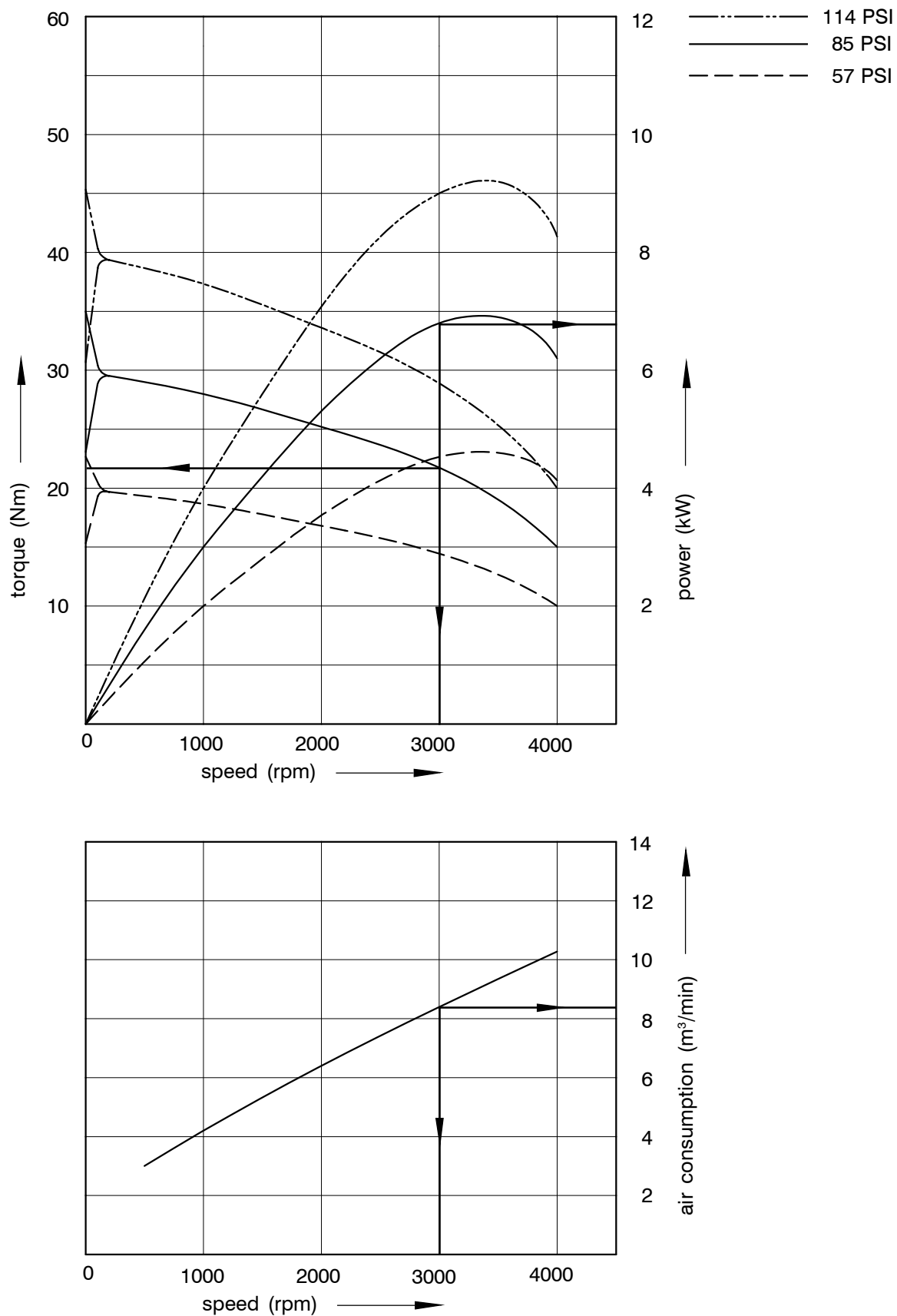
For individual motor solutions

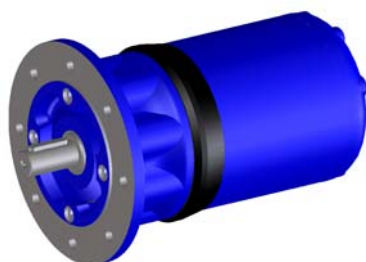
Drive-off shaft: Z28



Changes reserved!

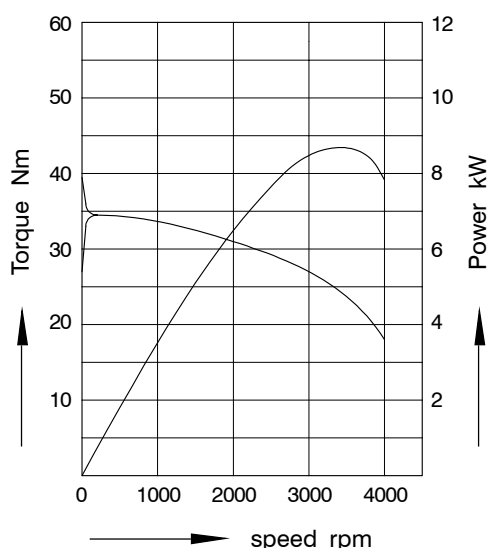
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PMW530Z24ERA200

Characteristic line at 85 PSI



Power, torque and air consumption are rising proportional about the working pressure.

Operating instructions and maintenance on separate datasheet
Nr.: 02.000.087AE
Lubrication instructions and oil changes of planetary gear on
separate datasheet No: PG1 - 010E

Motor characteristics

Geometric displacement volume	$V_g = 516$	ccm/rev
Nominal pressure	$p_N = 85$	PSI
max. operating pressure	$p_{max} = 140$	PSI
Nominal speed	$n_N = 3000$	rpm
max. speed	$n_{max} = 4000$	rpm

Technical data at $n=3000$ rpm ; $p=6$ bar

Nominal air consumption	$Q_{abs} = 12$	Nm ³ /min
Nominal torque	$T_N = 27$	Nm
minimal start torque	$T_A = 30$	Nm
maximal start torque	$T_A = 43$	Nm
Nominal power	$P_N = 8,5$	kW

Pressure medium:

Compressed air

if the compressed air is damp, we recommend
an oiler.

Nitrogen, natural gas etc.

in case of order please indicate the medium.

Mounting position: any

Direction of rotation: Looking at drive off shaft cone
Please see data sheet

Control types:

EL/ER : One direction left running / one direction right running.

PU/PU1 : Running in two directions with remote control.

Additional compressed air escapes over air-outlet cuff or air-outlet thread. PU1 with added steering connections G1/4.

PF : With integrated valves, depending on control- left or right running. Control pressure $p = 3 - 10$ bar for direction- left or right and neutral position. By exoneration control pressure, neutral position.

ML/MR : A hand lever controls the left- or right running and neutral position on control type PF.

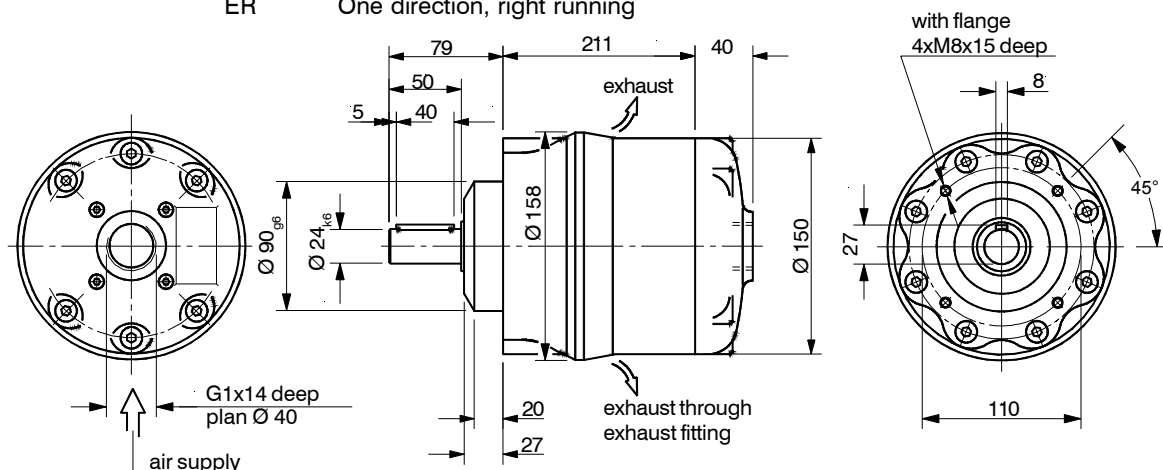
Ordering data for pneumatic gearwheel motor PMW 530

Motortype	Nominal size	Drive shaft	Exhaust	Controlling	Additional data
PMW	530	with key $\varnothing 24$ ☐ Z24 $\varnothing 28$ ☐ Z28	fitting ☐ thread G1½ ☐ W thread G1½ ☐ WS with silencer ☐	1 direction of rotation right ☐ ER left ☐ EL 2 directions of rotation ☐ PU ☐ PU1 Remote control 2 directions of rotation ☐ PF Hand lever control right ☐ MR left ☐ ML	Flange DIN 42948 ☐ A200 ☐ A250 ☐ A300 ☐ A350 ☐ B14 Foot ☐ B3

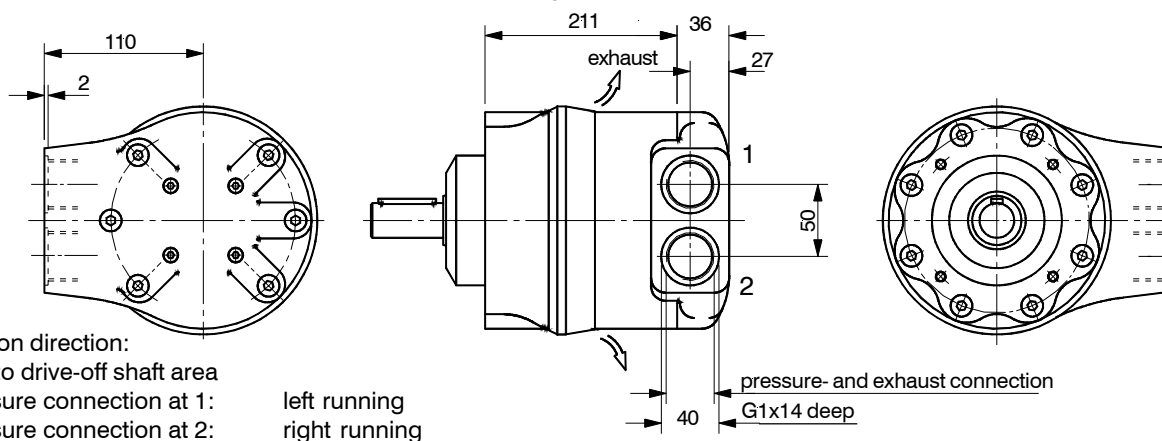
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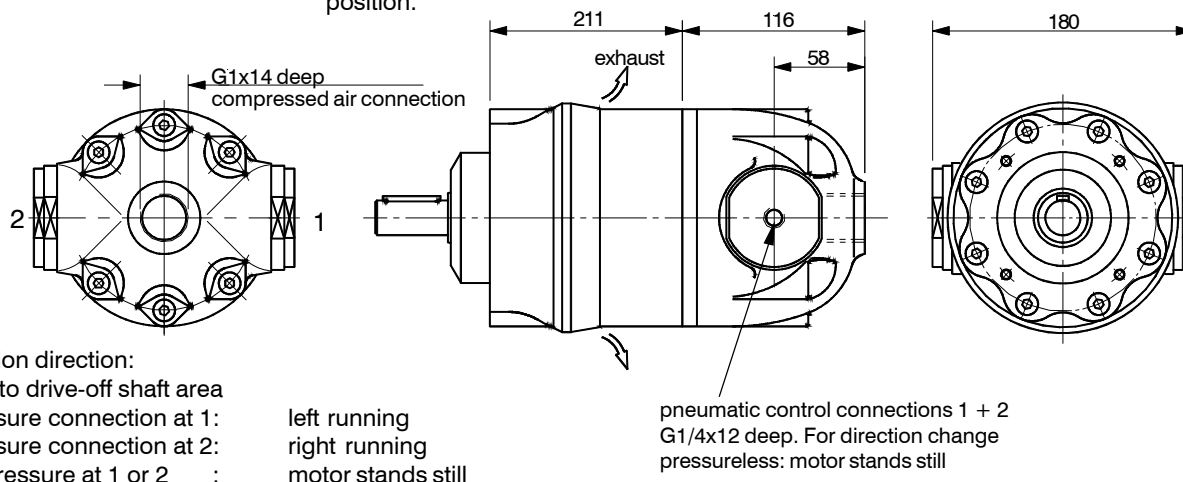
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 22,5 kg
 DIN 6885 A 8x7x40
 Steering control: EL One direction, left running
 ER One direction, right running



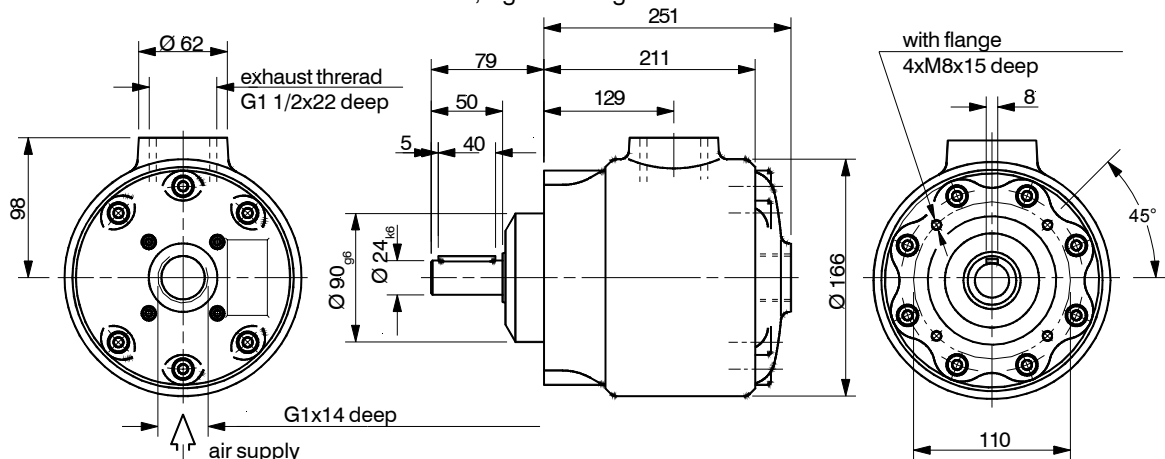
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 26 kg
 DIN 6885 A 8x7x40
 Steering control: PU Two directions
 PU1 additional two steering connections G1/4 additional dimensions



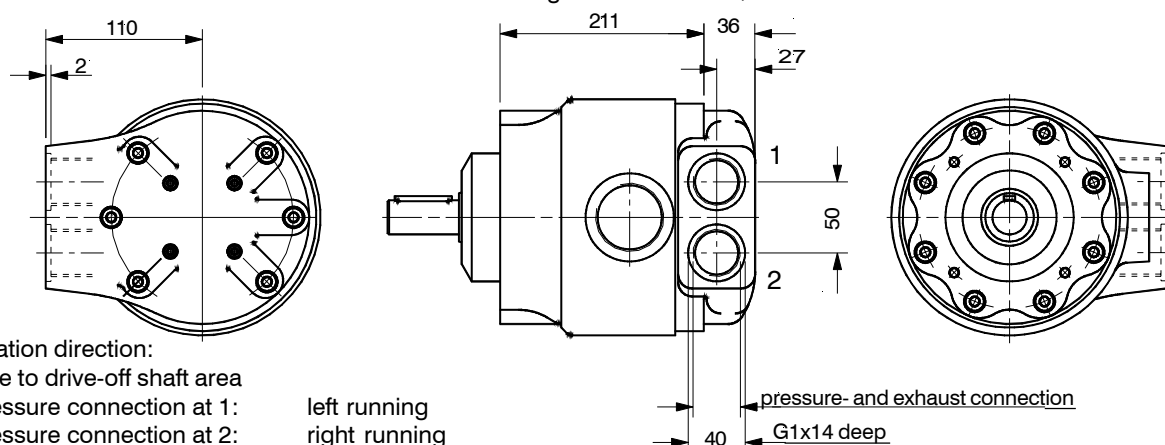
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 29 kg
 DIN 6885 A 8x7x40
 Steering control: PF Two directions with locking PF additional dimensions
 position.



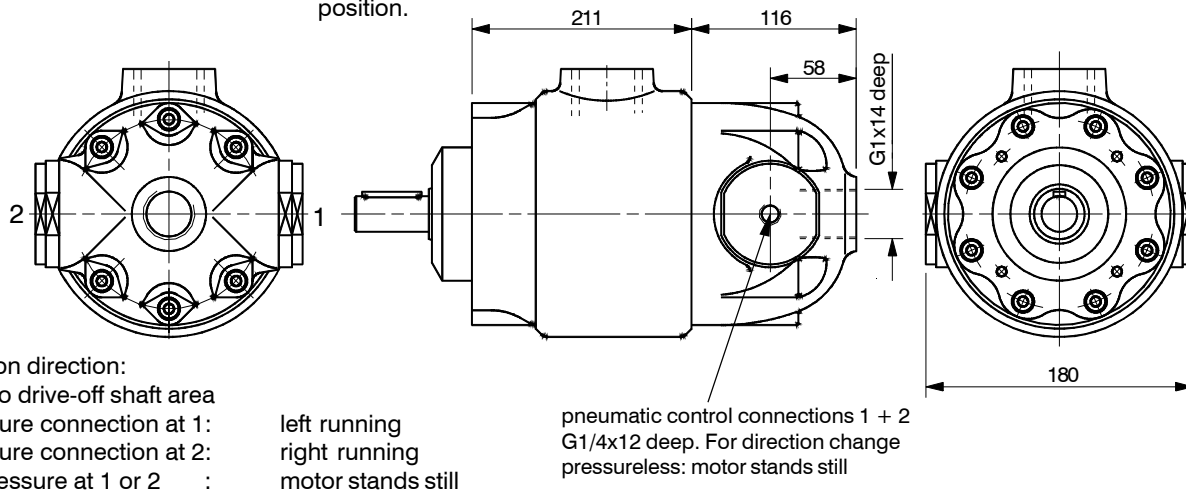
Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 23,5 kg
DIN 6885 A 8x7x40
Steering control: EL One direction, left running
ER One direction, right running



Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 27 kg
DIN 6885 A 8x7x40
Steering control: PU Two directions additional dimensions
PU1 additional 2 steering connections G 1/4



Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 30 kg
DIN 6885 A 8x7x40
Steering control: PF Two directions with locking PF additional dimensions
position.



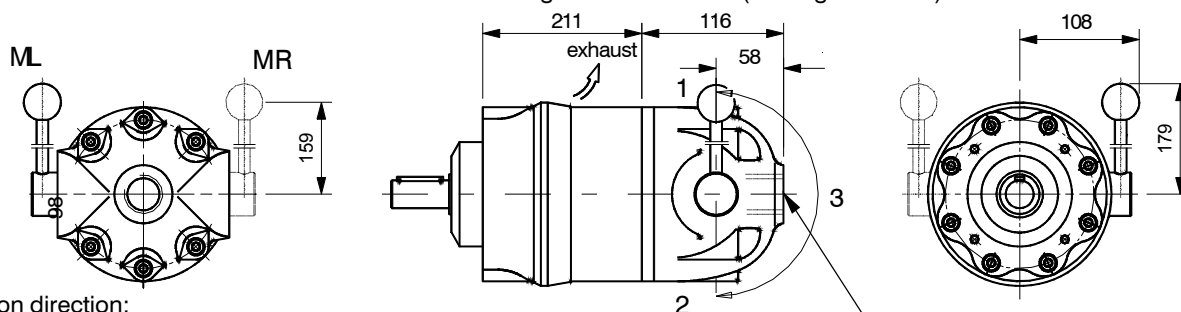
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Basic version with exhaust fitting

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 29 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

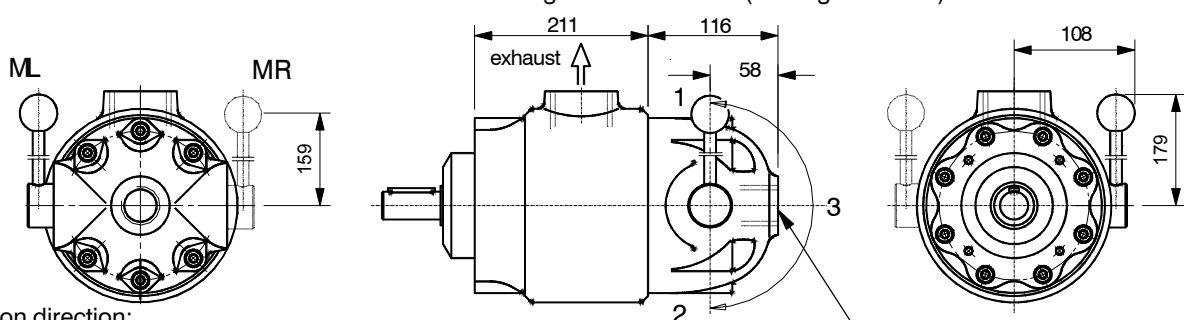
lever position at 1: left running
lever position at 2: right running
lever position at 3: motor stands still

air supply G1x14 deep

Basic version with exhaust thread

Drive-off shaft: Cylindrical with adjusting spring Z24 / Z28 weight: 30 kg
DIN 6885 A 8x7x40

Steering control: ML two directions with left mounted lever (looking at control)
MR two directions with right mounted lever (looking at control)



rotation direction:
face to drive-off shaft area

pressure connection at 1: left running
pressure connection at 2: right running

air supply G1x14 deep

Accessories:

Drive-off flange:

Dimensions according IEC 72 part 7 (electric motors)
and DIN 42948
A200; A250; A300; A350; B14

Feet version:

Dimensions according IEC 72 B3 (electric motors)
and DIN 42948

Silencer:

Only for version "W" with exhaust thread to deliver

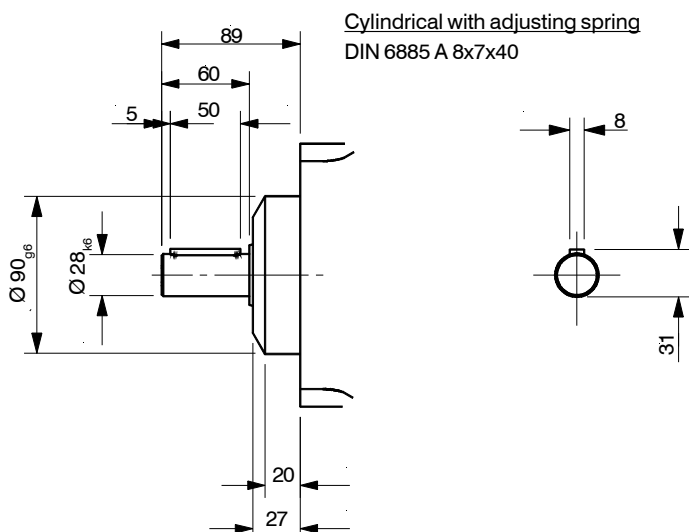
Throttle device:

For exhaust speed regulation
Only for version "W" with exhaust thread to deliver

Combined with gear and/or holding brake

For individual motor solutions

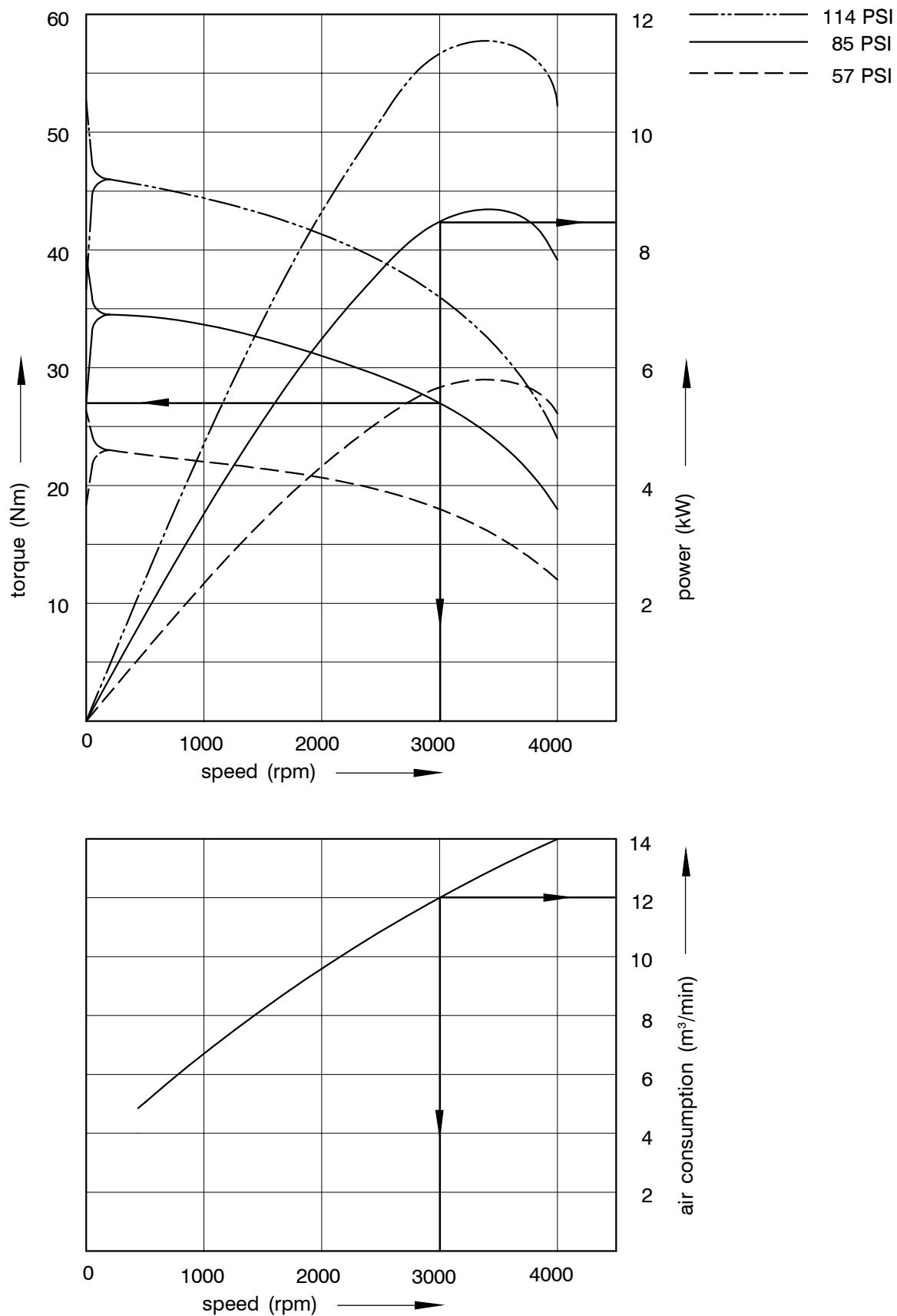
Drive-off shaft: Z28



Cylindrical with adjusting spring
DIN 6885 A 8x7x40

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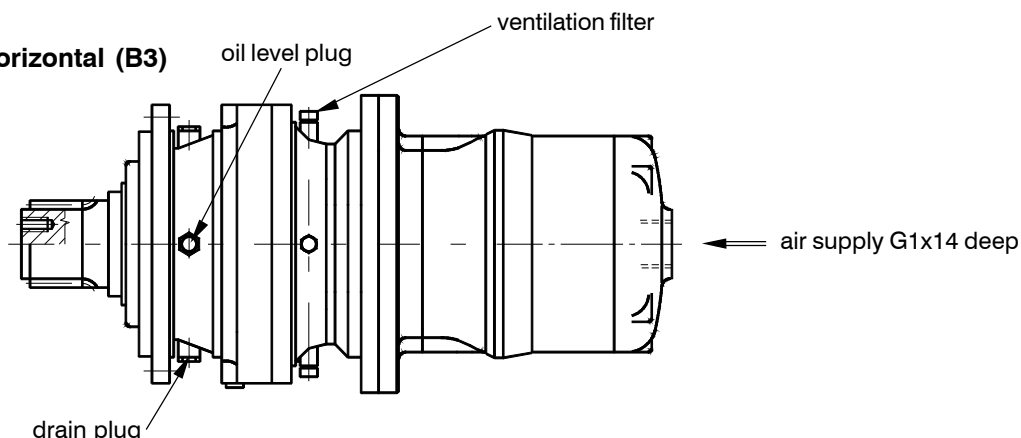


These motors have a pneumatic-gear-wheel-motor of the size PMW 160, PMW 250, PMW 400 or PMW 530 with flanged planetary gear of 1, 2 or 3 stages. A holding brake can be flanged between motor and gear.

Please demand for other gear ratios or gear types (foot-gear, angular-gear, worm gear etc.).

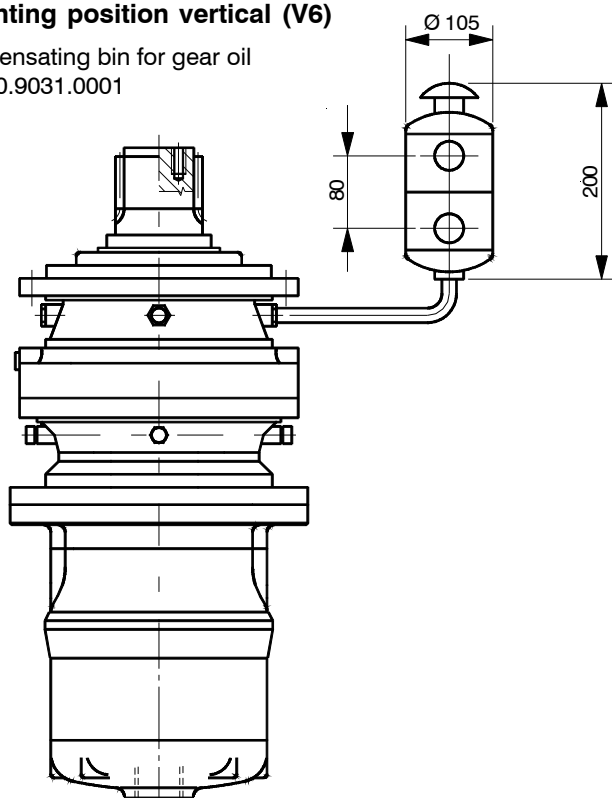
The rpm should not be higher than in the tables as max. rpm indicated. The rpm will be regulated or limited by the charge or a throttle valve. Depending to the mounting position it must be guaranteed, that the gear parts inside are provided with oil. For a vertical mounting there should therefore be an oil-compensating bin.

Mounting position horizontal (B3)

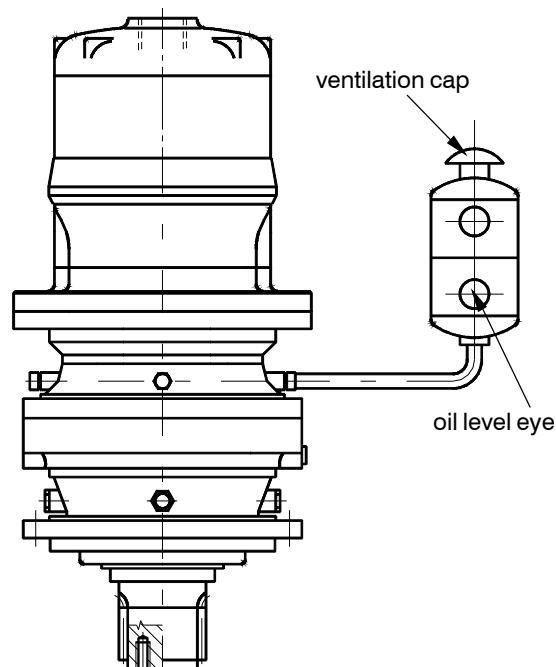


Mounting position vertical (V6)

compensating bin for gear oil
AN: 80.9031.0001



Mounting position vertical (V5)



Please use gear oils with EP- addition, a minimum viscosity of 95 and a viscosity-class according ISO-standardization 3448, temperature-independant. For usual applications use for operating temperatures between +40°C and +65°C - viscosity VG 320 according ISO 3448. For other temperatures please see operating instructions.

Commissioning: Fill in oil; see operating and servicing manual.

Technical data:

Nominal pressure : $p_{\text{Nom}} = 85 \text{ PSI}$ Nominal power : $P_{\text{Nom}} = 2,8 \text{ kW}$
max. operating pressure : $p_{\text{max}} = 114 \text{ PSI}$ air consumption absolute : $Q_{\text{abs}} = 3,9 \text{ Nm}^3/\text{min}$
Nominal speed : $n_{\text{Nom}} = 3000 \text{ rpm}$

The technical data (nominal power and absolute nominal air consumption) concerns to the nominal pressure and nominal motor speed.

Type	i	Start torque		Nominal torque (Nm)	security faktor K_{Nom}	speed minimal (rpm)	speed maximall (rpm)
		minimal (Nm)	maximal (Nm)				
PMW160...-EM1010...	3,38	31	47	30	33,9	296	888
PMW160...-EM1010...	4,39	40	61	38	22,7	228	683
PMW160...-EM1010...	6,00	55	83	52	12,2	167	500
PMW160...-EM1010...	6,94	64	96	61	9,6	144	432
PMW160...-EM1010...	10,50	97	145	92	3,3	95	286
PMW160...-ED2010...	11,42	102	152	97	10,4	88	263
PMW160...-ED2010...	14,84	132	198	126	8,0	67	202
PMW160...-ED2010...	19,27	172	257	163	5,4	52	156
PMW160...-ED2010...	20,28	180	271	172	5,8	49	148
PMW160...-ED2010...	23,46	209	313	198	5,1	43	128
PMW160...-ED2010...	26,34	234	352	223	3,9	38	114
PMW160...-ED2010...	30,47	271	407	258	3,4	33	98
PMW160...-ED2010...	36,00	320	481	305	2,1	28	83
PMW160...-ED2020MR...	41,64	371	556	352	4,0	24	72
PMW160...-ED2020MR...	50,32	448	672	426	3,1	20	59
PMW160...-ET3020MR...	59,36	516	775	486	3,7	17	50
PMW160...-ET3020MR...	61,28	533	780	502	3,6	16	48
PMW160...-ET3020MR...	70,98	618	926	581	3,4	14	42
PMW160...-ET3020MR...	82,10	714	1070	672	3,0	12	36
PMW160...-ET3020MR...	92,19	802	1200	755	2,7	11	32
PMW160...-ET3020MR...	106,60	927	1390	873	2,3	9,4	28
PMW160...-ET3030MR...	108,60	947	1420	891	3,8	9,2	27
PMW160...-ET3030MR...	124,2	1080	1620	1020	3,4	8,0	24
PMW160...-ET3030MR...	146,6	1275	1915	1200	2,8	6,8	20
PMW160...-ET3030MR...	157,5	1370	2060	1290	2,3	6,3	19
PMW160...-ET3030MR...	186,1	1620	2430	1525	1,9	5,4	16
PMW160...-ET3045MR...	207,8	1810	2710	1700	2,0	4,8	14
PMW160...-ET3065MR...	217,5	1890	2840	1780	3,1	4,6	13
PMW160...-ET3065MR...	251,6	2190	3280	2060	2,7	4,0	12
PMW160...-ET3065MR...	272,8	2370	3560	2230	2,6	3,7	11

Indications for listed data:

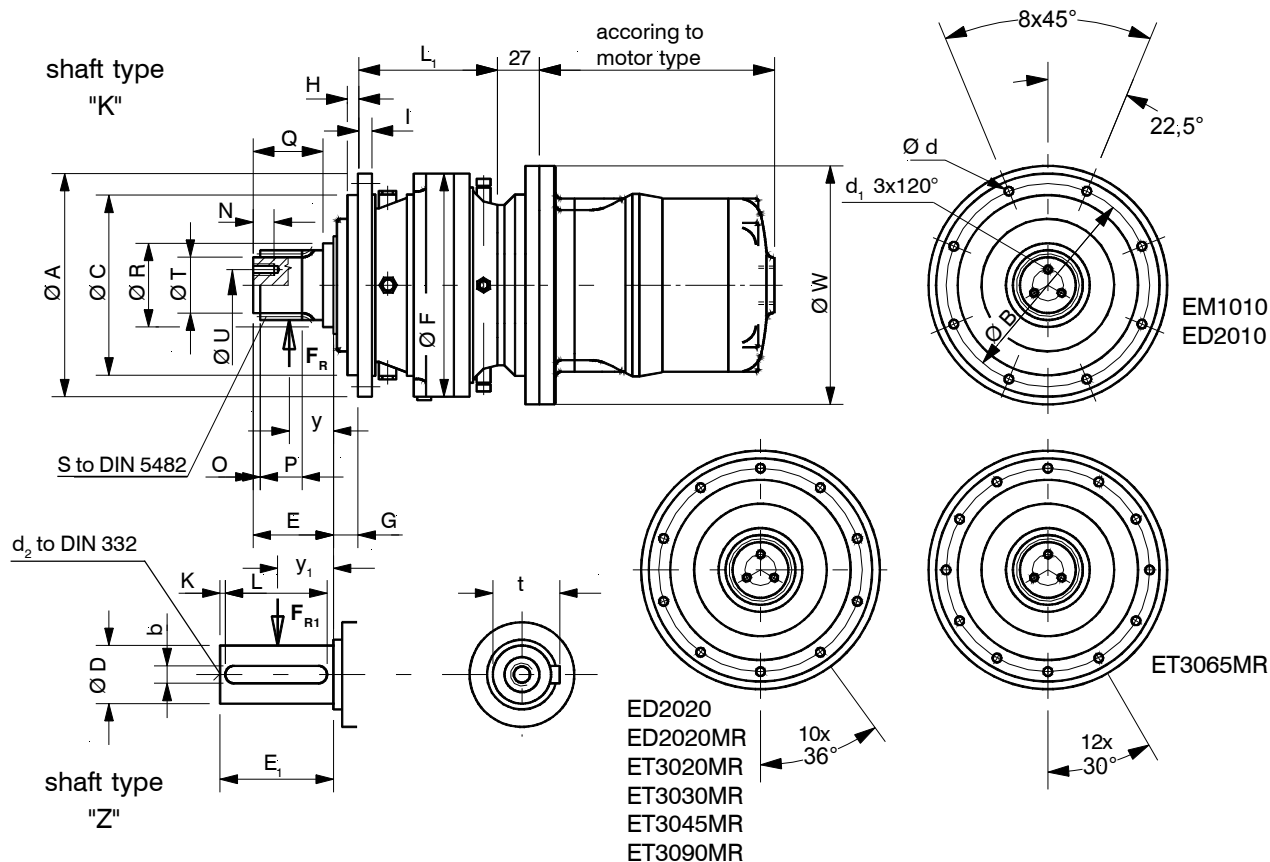
Start torque : The minimal / maximal start torque depends to the tooth position.
Nominal torque : Nominal torque at nominal pressure of 6 bar and nominal speed.
Security factor : Gear-security factor allowed gear torque / nominal torque
Speed, minimal : The minimum speed can be reached by motor throttling.
Speed, nominal : Nominal and maximal speed of the gear motor.

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Specifications:

The gear housing has a ventilation filter, an oil level plug for oil control and a drain plug for oil change.



Type	A	B	C ₁₇	D	E	E ₁	F	G	H	I	K	L	L ₁	N	O	P	Q
PMW160...-EM1010...	180	165	110	42 _{k6}	55	82	183	7	6	13	6	70	127	20	5	30	48
PMW160...-ED2010...	180	165	110	42 _{k6}	55	82	183	7	6	13	6	70	167	20	5	30	48
PMW160...-ED2020MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	245	20	8	38	58
PMW160...-ET3020MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	284	20	8	38	58
PMW160...-ET3030MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	284	20	8	38	58
PMW160...-ET3045MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	312	20	8	38	58
PMW160...-ET3065MR...	280	250	200	80 _{m6}	90	130	280	40	15	20	10	110	375	20	10	50	80

Type	R ₁₇	S	T ₁₇	U	W	b	d	d ₁	d ₂	t	y	y ₁	F _r (N)	F _{r1} (N)	kg
PMW160...-EM1010...	42	B40x36	35	24	200	12	9	M6	M16x36	45	27,5	41	10000	8000	39
PMW160...-ED2010...	42	B40x36	35	24	200	12	9	M6	M16x36	45	27,5	41	10000	8000	39
PMW160...-ED2020MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	56
PMW160...-ET3020MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	58
PMW160...-ET3030MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	66
PMW160...-ET3045MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	75
PMW160...-ET3065MR...	72	B70x64	62	40	200	22	16	M10	M20x42	85	45	65	70000	63000	104

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Technical data:

Nominal pressure : $p_{\text{Nom}} = 85 \text{ PSI}$ Nominal power : $P_{\text{Nom}} = 4,7 \text{ kW}$
 max. operating pressure : $p_{\text{max}} = 114 \text{ PSI}$ air consumption absolute : $Q_{\text{abs}} = 6,0 \text{ Nm}^3/\text{min}$
 Nominal speed : $n_{\text{Nom}} = 3000 \text{ rpm}$

The technical data (nominal power and absolute nominal air consumption) concerns to the nominal pressure and nominal motor speed.

Type	i	Start torque		Nominal torque (Nm)	security faktor K_{Nom}	speed minimal (rpm)	speed maximall (rpm)
		minimal (Nm)	maximal (Nm)				
PMW250...-EM1010...	3,38	50	75	49	20,3	296	888
PMW250...-EM1010...	4,39	65	97	64	13,6	228	683
PMW250...-EM1010...	6,00	88	132	87	7,3	167	500
PMW250...-EM1010...	6,94	102	153	101	5,7	144	432
PMW250...-ED2010...	11,42	162	244	161	6,2	88	263
PMW250...-ED2010...	14,84	211	317	209	4,8	67	202
PMW250...-ED2010...	19,27	274	412	272	3,2	52	156
PMW250...-ED2010...	20,28	289	433	286	3,5	49	148
PMW250...-ED2010...	23,46	434	501	331	3,0	43	128
PMW250...-ED2020MR...	24,78	353	529	349	5,2	40	121
PMW250...-ED2020MR...	28,66	408	612	404	4,5	35	105
PMW250...-ED2020MR...	31,02	442	663	437	3,4	32	97
PMW250...-ED2020MR...	35,88	511	766	506	3,0	28	84
PMW250...-ED2020MR...	41,64	593	889	587	2,4	24	72
PMW250...-ED2030MR...	43,5	619	929	613	3,8	23	69
PMW250...-ED2030MR...	50,32	717	1075	710	3,2	20	59
PMW250...-ET3030MR...	59,06	822	1235	806	3,6	17	50
PMW250...-ET3030MR...	61,28	853	1280	836	4,1	16	48
PMW250...-ET3030MR...	70,98	988	1480	969	3,6	14	42
PMW250...-ET3030MR...	83,76	1165	1750	1145	3,0	12	35
PMW250...-ET3030MR...	89,03	1240	1860	1215	2,2	11	33
PMW250...-ET3045MR...	100,3	1400	2090	1370	2,7	10	29
PMW250...-ET3045MR...	108,6	1510	2270	1480	2,5	9	27
PMW250...-ET3045MR...	125,6	1750	2620	1715	2,2	8	23
PMW250...-ET3065MR...	134,3	1870	2800	1835	3,1	7	22
PMW250...-ET3065MR...	155,1	2160	3240	2120	2,6	6	19
PMW250...-ET3065MR...	180,0	2510	3760	2460	2,2	5	16
PMW250...-ET3090MR...	209,2	2910	4370	2860	2,4	4	14
PMW250...-ET3090MR...	219,7	3060	4590	3000	2,6	3	13

Indications for listed data:

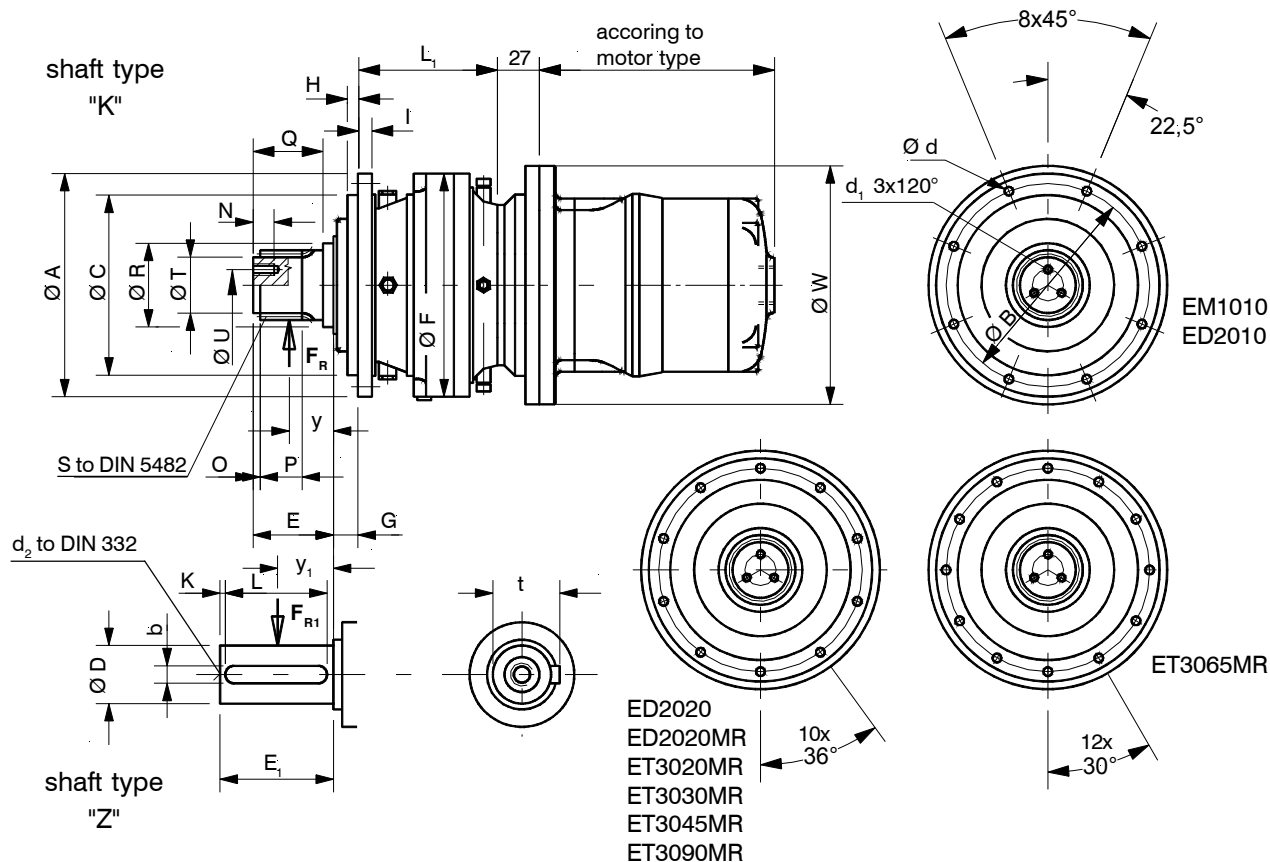
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 Nominal torque : Nominal torque at nominal pressure of 6 bar and nominal speed.
 Security factor : Gear-security factor allowed gear torque / nominal torque
 Speed, minimal : The minimum speed can be reached by motor throttling.
 Speed, nominal : Nominal and maximal speed of the gear motor.

Changes reserved!

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Specifications:

The gear housing has a ventilation filter, an oil level plug for oil control and a drain plug for oil change.



Type	A	B	C ₁₇	D	E	E ₁	F	G	H	I	K	L	L ₁	N	O	P	Q
PMW250...-EM1010...	180	165	110	42 _{k6}	55	82	183	7	6	13	6	70	127	20	5	30	48
PMW250...-ED2010...	180	165	110	42 _{k6}	55	82	183	7	6	13	6	70	167	20	5	30	48
PMW250...-ED2020MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	245	20	8	38	58
PMW250...-ED2030MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	245	20	8	38	58
PMW250...-ET3030MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	284	20	8	38	58
PMW250...-ET3045MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	312	20	8	38	58
PMW250...-ET3065MR...	280	250	200	80 _{m6}	90	130	280	40	15	20	10	110	375	20	10	50	80
PMW250...-ET3090MR...	325	295	230	90 _{m6}	90	170	355	36	5	25	5	160	376	25	10	50	80

Type	R ₁₇	S	T ₁₇	U	W	b	d	d ₁	d ₂	t	y	y ₁	F _r (N)	F _{r1} (N)	kg
PMW250...-EM1010...	42	B40x36	35	24	200	12	9	M6	M16x36	45	27,5	41	10000	8000	39
PMW250...-ED2010...	42	B40x36	35	24	200	12	9	M6	M16x36	45	27,5	41	10000	8000	39
PMW250...-ED2020MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	56
PMW250...-ED2030MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	58
PMW250...-ET3030MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	66
PMW250...-ET3045MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	75
PMW250...-ET3065MR...	72	B70x64	62	40	200	22	16	M10	M20x42	85	45	65	70000	63000	104
PMW250...-ET3090MR...	85	B80x74	70	45	200	25	18	M10	M24x50	95	45	85	70000	58000	143

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Technical data:

Nominal pressure : $p_{\text{Nom}} = 85 \text{ PSI}$ Nominal power : $P_{\text{Nom}} = 6,9 \text{ kW}$
max. operating pressure : $p_{\text{max}} = 114 \text{ PSI}$ air consumption absolute : $Q_{\text{abs}} = 8,4 \text{ Nm}^3/\text{min}$
Nominal speed : $n_{\text{Nom}} = 3000 \text{ rpm}$

The technical data (nominal power and absolute nominal air consumption) concerns to the nominal pressure and nominal motor speed.

Type	i	Start torque		Nominal torque (Nm)	security faktor K_{Nom}	speed minimal (rpm)	speed maximall (rpm)
		minimal (Nm)	maximal (Nm)				
PMW400...-EM1010...	3,38	72	106	72	13,9	296	888
PMW400...-EM1010...	4,39	93	137	94	9,3	228	683
PMW400...-EM1010...	6,00	127	188	128	5,0	167	500
PMW400...-EM1010...	6,94	147	217	148	3,9	144	432
PMW400...-ED2010...	11,42	250	370	252	4,0	88	263
PMW400...-ED2020MR...	13,52	277	400	280	6,4	74	221
PMW400...-ED2020MR...	15,37	315	465	318	6,3	65	195
PMW400...-ED2020MR...	18,13	371	549	375	4,8	56	165
PMW400...-ED2020MR...	21,00	430	635	434	4,6	48	142
PMW400...-ED2020MR...	22,70	465	687	469	3,2	44	132
PMW400...-ED2020MR...	24,78	507	750	512	3,5	41	121
PMW400...-ED2020MR...	28,66	587	867	593	3,0	35	104
PMW400...-ED2020MR...	31,02	635	939	641	2,3	33	96
PMW400...-ED2030MR...	36,00	737	1090	744	3,6	28	83
PMW400...-ED2030MR...	41,64	852	1260	861	3,1	24	72
PMW400...-ED2030MR...	43,50	890	1315	890	2,6	23	69
PMW400...-ED2030MR...	50,32	1030	1520	1040	2,2	20	59
PMW400...-ET3030MR...	59,06	1180	1745	1180	2,5	17	50
PMW400...-ET3045MR...	63,46	1270	1875	1270	2,9	16	47
PMW400...-ET3045MR...	73,50	1470	2170	1470	2,5	14	40
PMW400...-ET3045MR...	79,44	1570	2350	1590	2,3	13	37
PMW400...-ET3065MR...	90,93	1820	2690	1820	3,1	11	33
PMW400...-ET3065MR...	98,27	1970	2910	1960	2,9	10	30
PMW400...-ET3065MR...	110,60	2210	3270	2210	2,6	9	27
PMW400...-ET3090MR...	126,60	2530	3740	2530	3,6	8	24
PMW400...-ET3090MR...	146,90	2940	4350	2940	3,1	7	20
PMW400...-ET3090MR...	152,90	3060	4520	3060	2,9	6	18
PMW400...-ET3090MR...	177,50	3550	5250	3550	2,5	5	16

Indications for listed data:

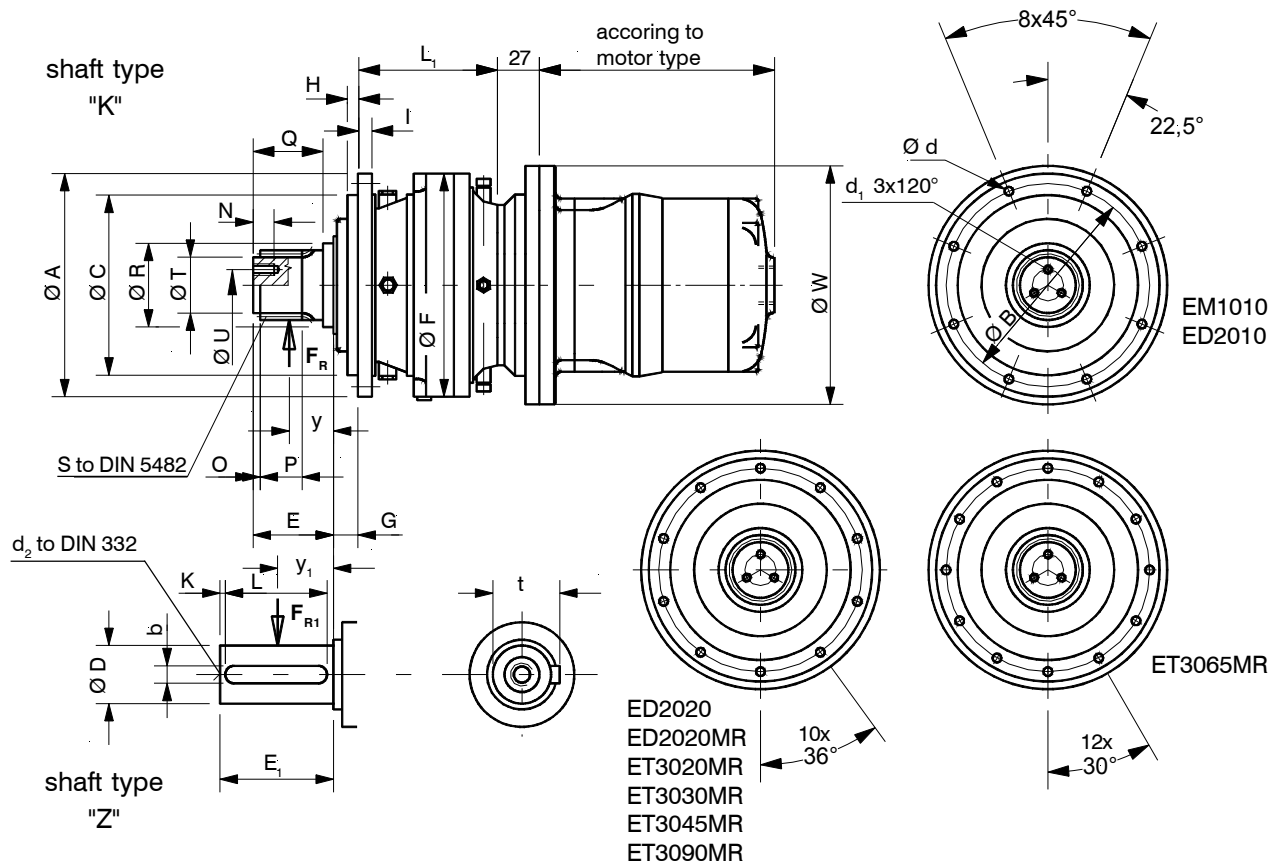
Start torque : The minimal / maximal start torque depends to the tooth position.
Nominal torque : Nominal torque at nominal pressure of 6 bar and nominal speed.
Security factor : Gear-security factor allowed gear torque / nominal torque
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Speed, nominal : Nominal and maximal speed of the gear motor.

Changes reserved!

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Specifications:

The gear housing has a ventilation filter, an oil level plug for oil control and a drain plug for oil change.



Type	A	B	C ₁₇	D	E	E ₁	F	G	H	I	K	L	L ₁	N	O	P	Q
PMW400...-EM1010...	180	165	110	42 _{k6}	55	82	183	7	6	13	6	70	127	20	5	30	48
PMW400...-ED2010...	180	165	110	42 _{k6}	55	82	183	7	6	13	6	70	167	20	5	30	48
PMW400...-ED2020MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	245	20	8	38	58
PMW400...-ED2030MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	245	20	8	38	58
PMW400...-ET3030MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	284	20	8	38	58
PMW400...-ET3045MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	312	20	8	38	58
PMW400...-ET3065MR...	280	250	200	80 _{m6}	90	130	280	40	15	20	10	110	375	20	10	50	80
PMW400...-ET3090MR...	325	295	230	90 _{m6}	90	170	355	36	5	25	5	160	376	25	10	50	80

Type	R ₁₇	S	T ₁₇	U	W	b	d	d ₁	d ₂	t	y	y ₁	F _r (N)	F _{r1} (N)	kg
PMW400...-EM1010...	42	B40x36	35	24	200	12	9	M6	M16x36	45	27,5	41	10000	8000	39
PMW400...-ED2010...	42	B40x36	35	24	200	12	9	M6	M16x36	45	27,5	41	10000	8000	39
PMW400...-ED2020MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	56
PMW400...-ED2030MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	58
PMW400...-ET3030MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	66
PMW400...-ET3045MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	75
PMW400...-ET3065MR...	72	B70x64	62	40	200	22	16	M10	M20x42	85	45	65	70000	63000	104
PMW400...-ET3090MR...	85	B80x74	70	45	200	25	18	M10	M24x50	95	45	85	70000	58000	143

Changes reserved!

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Technical data:

Nominal pressure : $p_{\text{Nom}} = 85 \text{ PSI}$ Nominal power : $P_{\text{Nom}} = 8,5 \text{ kW}$
 max. operating pressure : $p_{\text{max}} = 114 \text{ PSI}$ air consumption absolute : $Q_{\text{abs}} = 12 \text{ Nm}^3/\text{min}$
 Nominal speed : $n_{\text{Nom}} = 3000 \text{ rpm}$

The technical data (nominal power and absolute nominal air consumption) concerns to the nominal pressure and nominal motor speed.

Type	i	Start torque		Nominal torque (Nm)	security faktor K_{Nom}	speed minimal (rpm)	speed maximall (rpm)
		minimal (Nm)	maximal (Nm)				
PMW530...-EM1010...	3,38	93	134	89	11,3	296	888
PMW530...-EM1010...	4,39	121	174	115	7,6	228	683
PMW530...-EM1010...	6,00	166	237	157	4,1	167	500
PMW530...-EM1010...	6,94	192	275	182	3,2	144	432
PMW530...-ED2020MR...	11,83	316	453	300	6,7	85	254
PMW530...-ED2020MR...	13,52	361	517	343	5,3	74	221
PMW530...-ED2020MR...	15,37	410	588	390	5,1	65	195
PMW530...-ED2020MR...	18,13	484	694	460	3,9	56	165
PMW530...-ED2020MR...	21,00	561	804	533	3,8	48	142
PMW530...-ED2020MR...	22,70	606	869	576	2,6	44	132
PMW530...-ED2020MR...	24,78	662	948	629	2,9	41	121
PMW530...-ED2020MR...	28,66	765	1095	727	2,5	35	104
PMW530...-ED2030MR...	31,02	828	1190	787	3,7	33	96
PMW530...-ED2030MR...	36,00	961	1380	914	3,0	28	83
PMW530...-ED2030MR...	41,64	1110	1505	1055	2,6	24	72
PMW530...-ED2045MR...	43,50	1160	1665	1105	2,5	23	69
PMW530...-ET3045MR...	53,78	1405	2010	1320	2,8	20	59
PMW530...-ET3065MR...	60,44	1585	2270	1485	3,8	16	50
PMW530...-ET3065MR...	73,50	1920	2750	1805	3,4	14	41
PMW530...-ET3065MR...	78,51	2050	2940	1930	3,0	13	38
PMW530...-ET3065MR...	90,93	2375	3400	2230	2,6	11	33
PMW530...-ET3090MR...	101,10	2640	3780	2480	3,6	10	30
PMW530...-ET3090MR...	109,10	2850	4080	2680	3,4	9	27
PMW530...-ET3090MR...	126,60	3300	4740	3110	2,9	8	24
PMW530...-ET3090MR...	146,90	3830	5500	3610	2,5	7	20
PMW530...-ET3090MR...	152,90	3990	5720	3760	2,4	6	18

Indications for listed data:

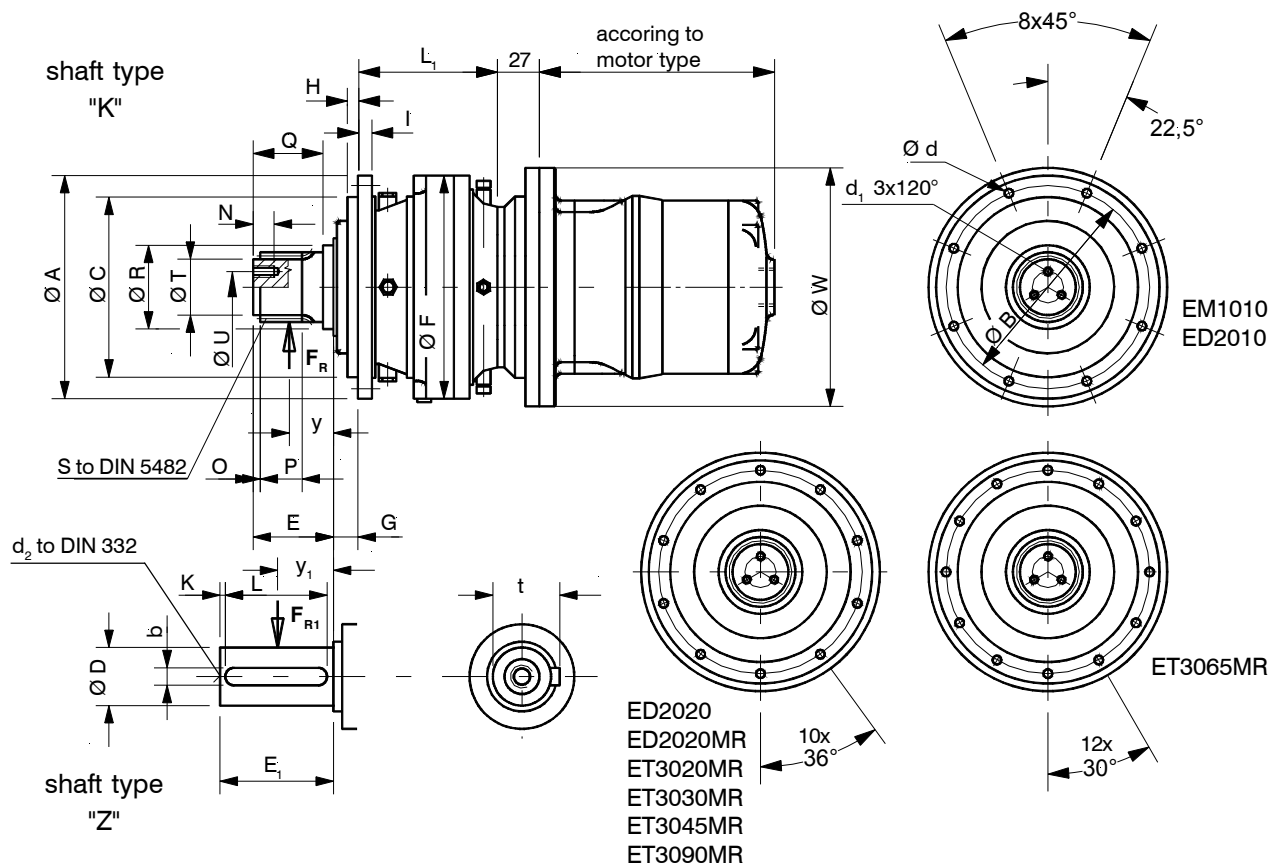
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Specifications:

The gear housing has a ventilation filter, an oil level plug for oil control and a drain plug for oil change.



Type	A	B	C ₁₇	D	E	E ₁	F	G	H	I	K	L	L ₁	N	O	P	Q
PMW530...-EM1010...	180	165	110	42 _{k6}	55	82	183	7	6	13	6	70	127	20	5	30	48
PMW530...-ED2020MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	245	20	8	38	58
PMW530...-ED2030MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	245	20	8	38	58
PMW530...-ED2045MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	260	20	8	38	58
PMW530...-ET3045MR...	220	195	150	65 _{m6}	68	105	240	15	5	16	7,5	90	312	20	8	38	58
PMW530...-ET3065MR...	280	250	200	80 _{m6}	90	130	280	40	15	20	10	110	375	20	10	50	80
PMW530...-ET3090MR...	325	295	230	90 _{m6}	90	170	355	36	5	25	5	160	376	25	10	50	80

Type	R ₁₇	S	T ₁₇	U	W	b	d	d ₁	d ₂	t	y	y ₁	F _r (N)	F _{r1} (N)	kg
PMW530...-EM1010...	42	B40x36	35	24	200	12	9	M6	M16x36	45	27,5	41	10000	8000	39
PMW530...-ED2020MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	56
PMW530...-ET2030MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	58
PMW530...-ED2045MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	75
PMW530...-ET3045MR...	60	B58x53	50	32	200	18	14	M10	M20x42	69	34	52,5	30000	28000	79
PMW530...-ET3065MR...	72	B70x64	62	40	200	22	16	M10	M20x42	85	45	65	70000	63000	104
PMW530...-ET3090MR...	85	B80x74	70	45	200	25	18	M10	M24x50	95	45	85	70000	58000	143

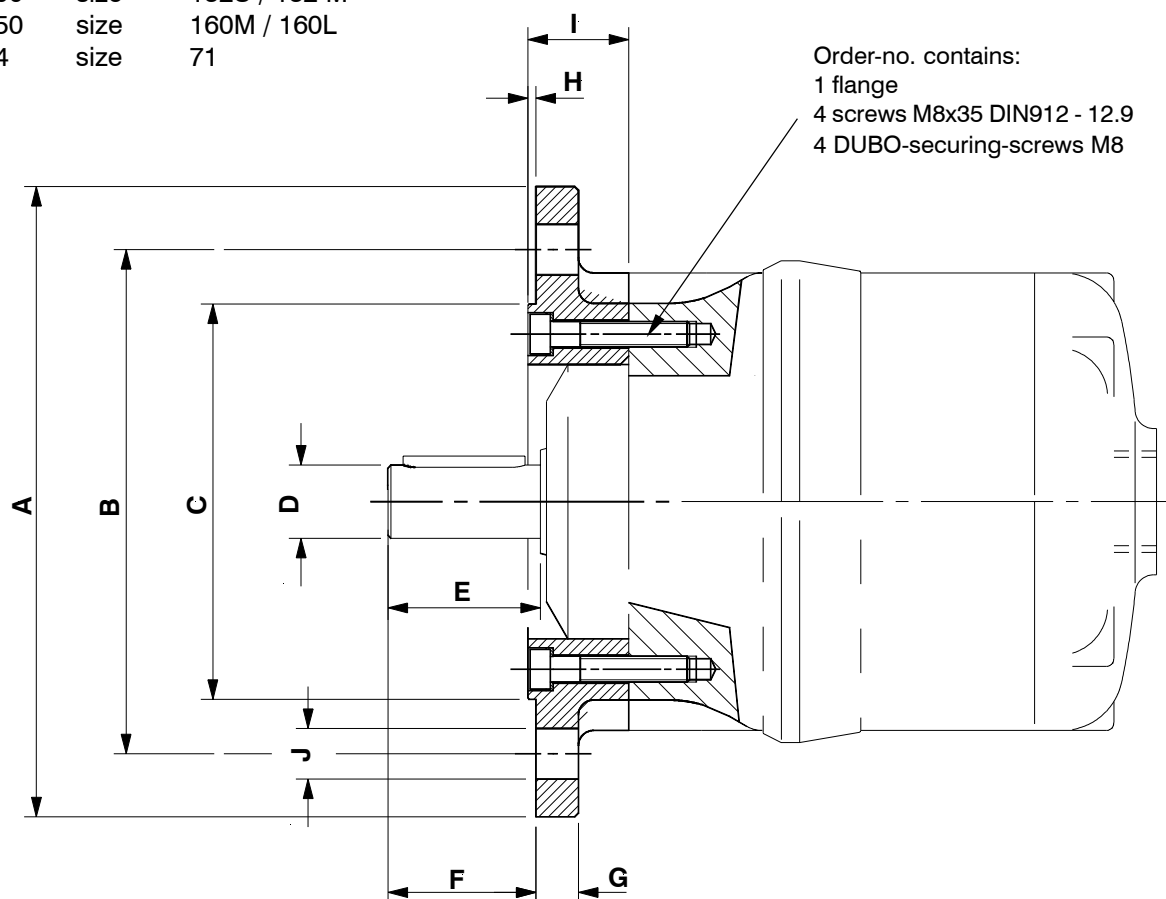
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Drive-off flange:

Flange dimensions according IEC72 part 7 (electro-motors) and DIN42948.

A200	size	80 / 90S / 90L
A250	size	100L / 112M
A300	size	132S / 132 M
A350	size	160M / 160L
B14	size	71



Order-no.	flange	A	B	C	D	E	F	G	H	I	J	weight (kg)
12.2000.04	A200	Ø 200	Ø 165	Ø 130 _{g6}	Ø 24 Ø 28	50 60	50 60	12	3,5	32,5	8 borings Ø11	3
12.3000.04	A250	Ø 250	Ø 215	Ø 180 _{g6}	Ø 24 Ø 28	50 60	50 60	12	4	33	8 borings Ø13,5	3,5
12.3000.14	A300	Ø 300	Ø 265	Ø 230 _{g6}	Ø 24 Ø 28	50 60	50 60	12	4	33	4 borings Ø13,5	4
12.3000.24	A350	Ø 350	Ø 300	Ø 250 _{g6}	Ø 24 Ø 28	50 60	50 60	12	5	34	4 borings Ø17,5	4,5
12.3000.34	B14	Ø 160	Ø 130	Ø 110 _{g6}	Ø 24 Ø 28	50 60	50 60	10	3,5	33	4 thread-holes M8x14, 19 deep	2,5

indications in (mm)

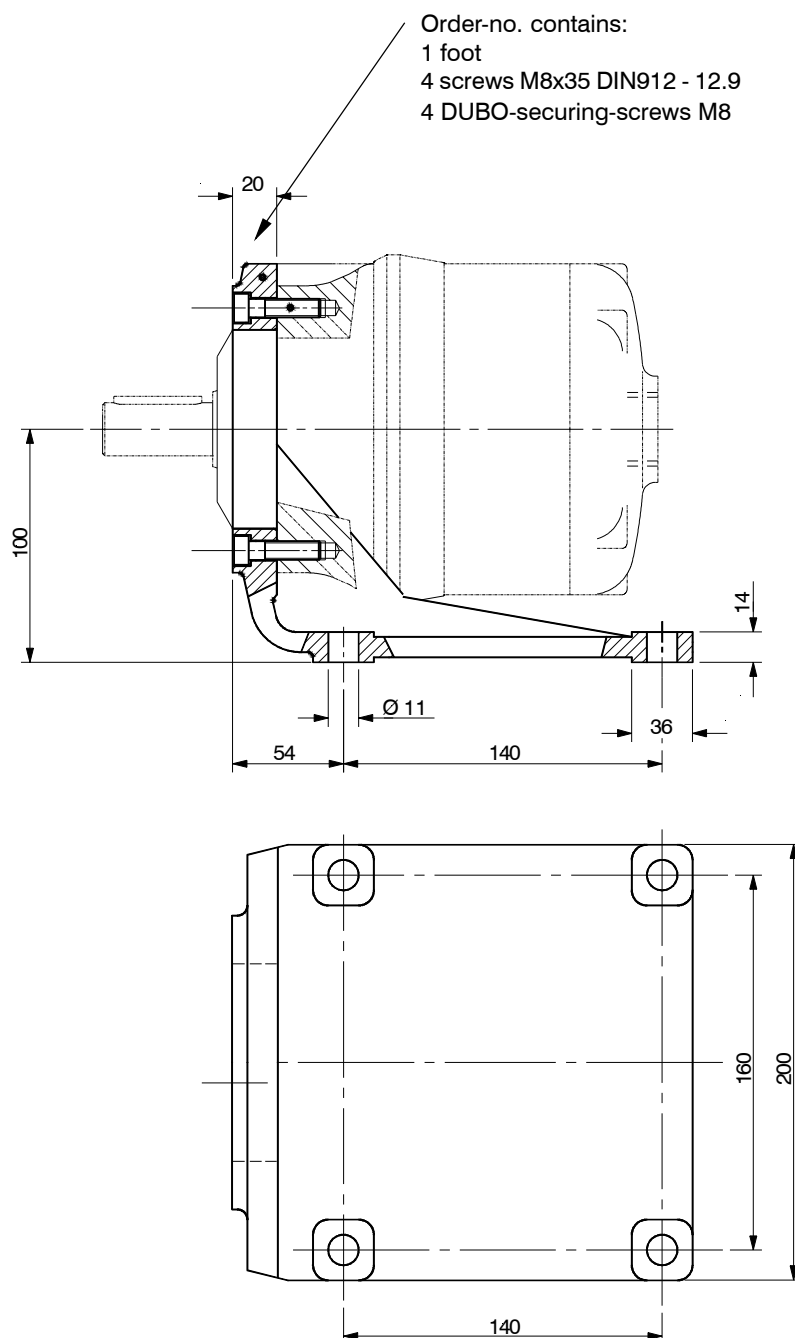
Changes reserved!

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The motor foot is developed for the pneumatic motors and is corresponding for the IEC-electronical standard B3 100L. The foot is fixed with 4 screws and 4 DUBO-safety screws on the drift flange.

weight: 4,5 kg

order declaration: foot F, AN: 12.2000.14



Technical details: nominal pressure $p_n = 6 \text{ bar}$; wight $m = 2,5 \text{ kg}$

thread diameter: G1 1/2 ; temperature range: $-10 \text{ }^\circ\text{C} - +150 \text{ }^\circ\text{C}$

any mounting position ; multiple system DBP

order declaration: silencer G1 1/2, AN: 20.5070.0111

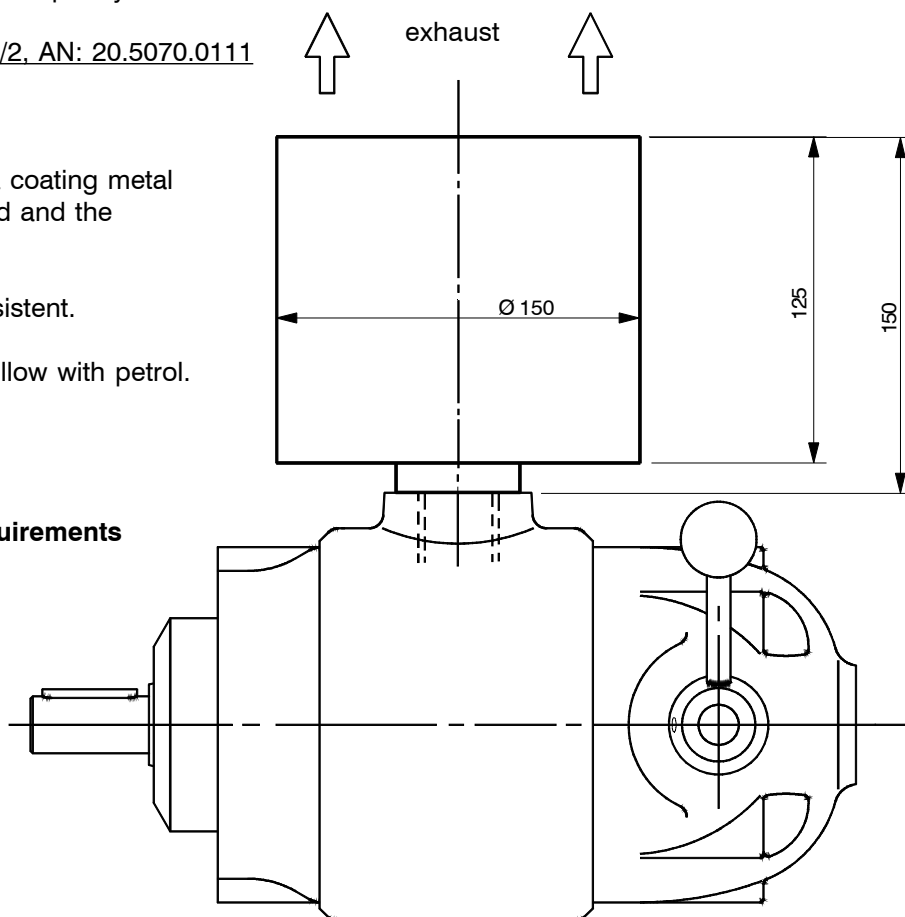
The housing case consists as a coating metal plate. Hole plates are galvanized and the synthetec felt is age resistant.

The silencer is oil and water resistant.

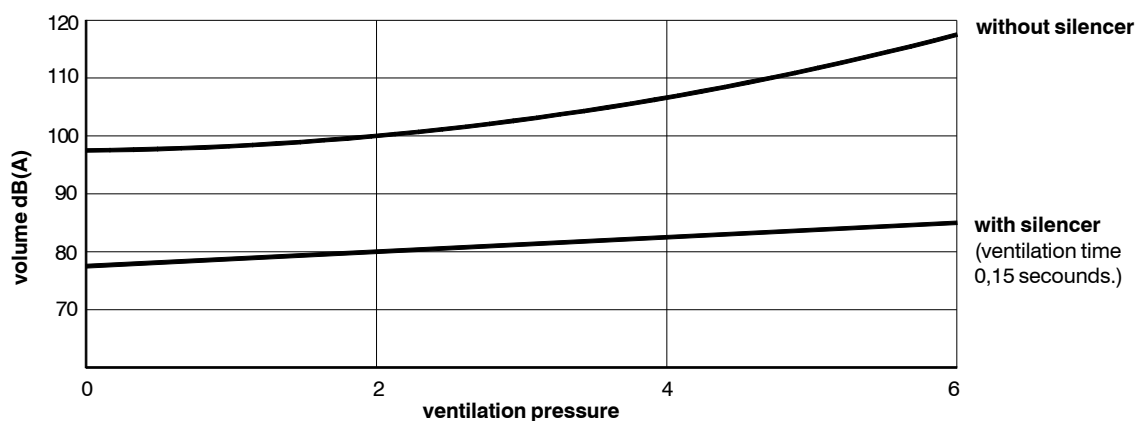
The silencer cleaning can be follow with petrol.

The three most important requirements are joint in this type:

- 1) high exhaust
- 2) short ventilation time
- 3) high sound absorbing

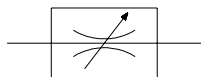
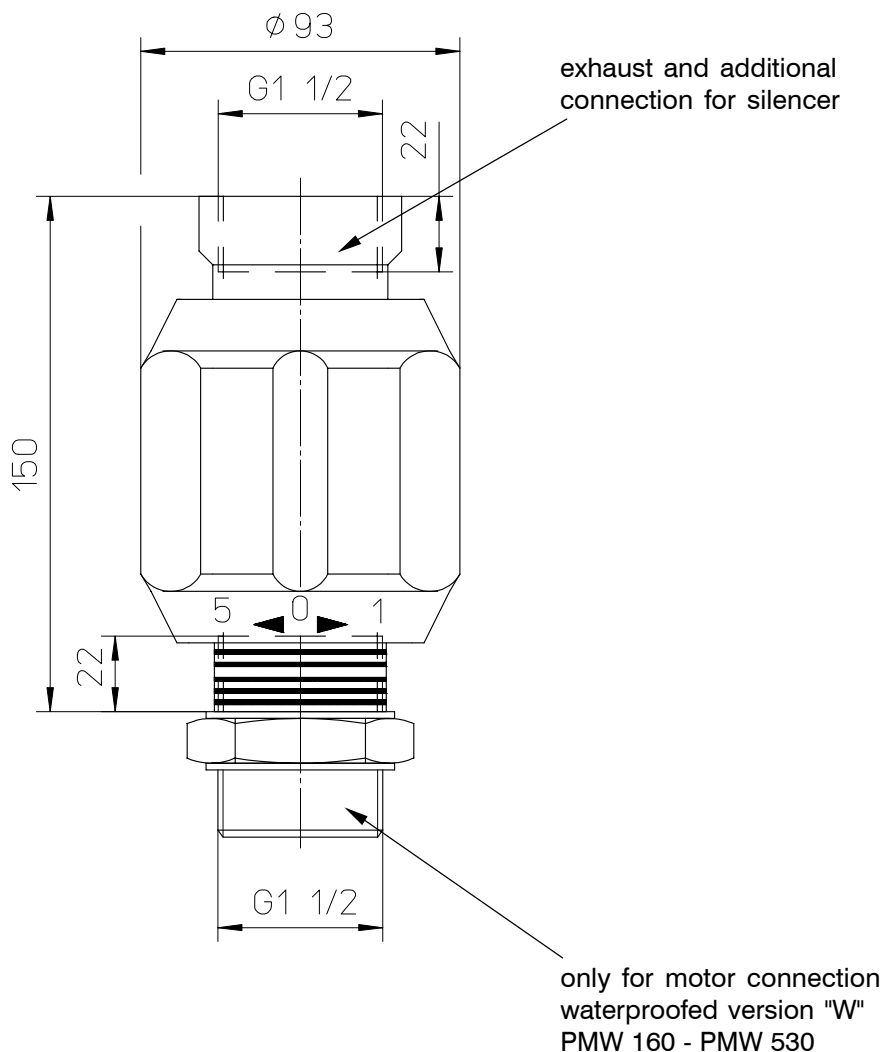


Sound calibration by a ventilation time over an air volume about 6 litre in a distance over 1,5 m.



This valve throttles in both flow directions. The compressed air flows through side drillings to the throttling point. This is formed between the housing and the adjustable sleeves. The throttle crosssection may be steplessly varied by rotating the sleeve.

weight: 4,1 kg



order declaration:

exhaust throttling, complete AN: 93.0000.0024

Order-no. contains:

1 throttle valve NG 30, AN: 80.4121.3010

1 twin plug G1 1/2 - G1 1/2, AN: 18.1070.1212

2 o-ring seal A48 x 55 DIN 7603 CU, AN: 18.1160.1169

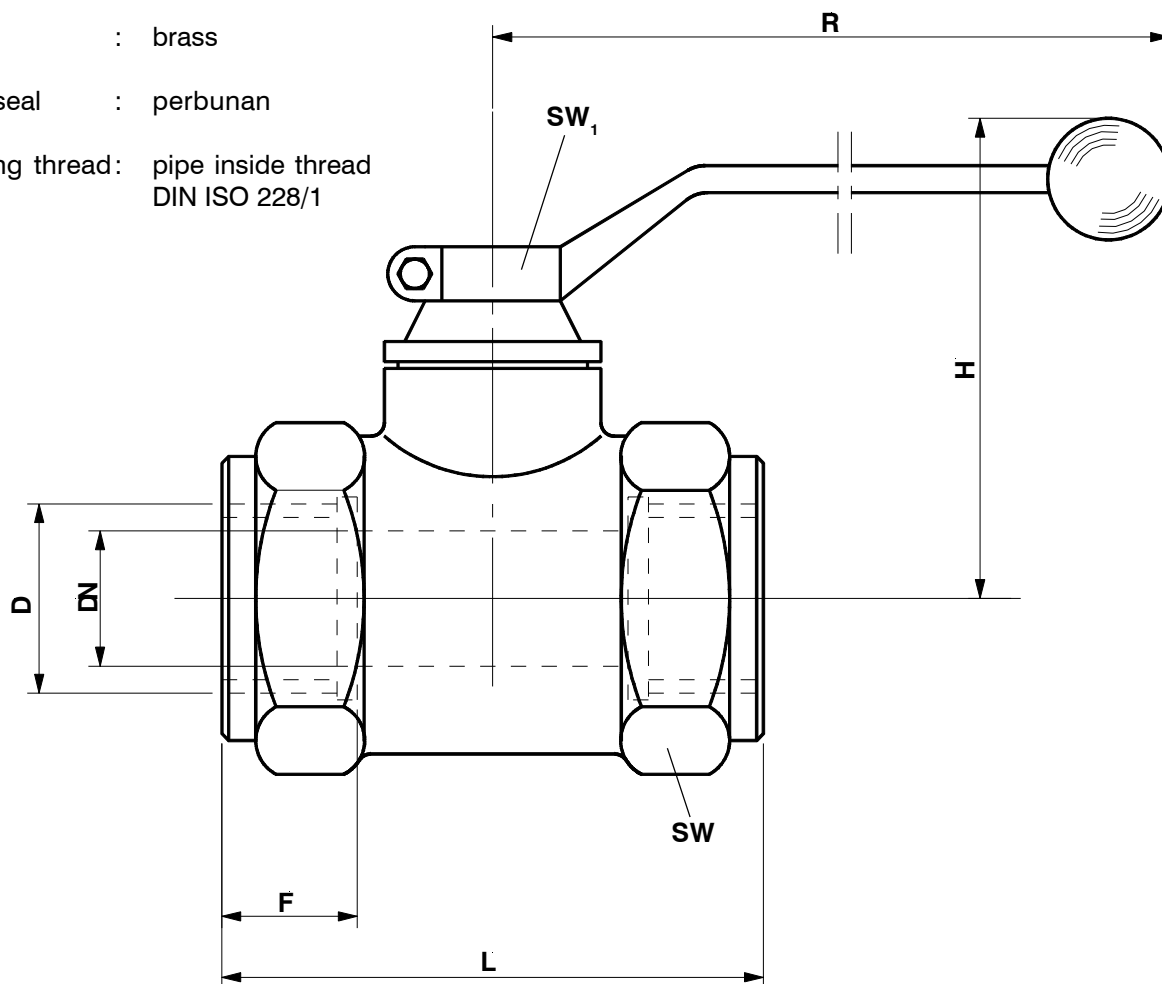
DN4 - DN25 : steel case

DN32 - DN50 : gray cast case

ball : brass

packing seal : perbunan

connecting thread: pipe inside thread
DIN ISO 228/1



Order-no.	DN	D	F	L	SW	H	R	SW ₁	PN (kp/cm ²)	weight (kg)
20.2076.0004	4	G1/8	11	50	24	44	60	8	25	0,3
20.2076.0006	6	G1/4	12,5	50	24	44	60	8	25	0,3
20.2076.0010	10	G3/8	12,5	60	30	50	60	8	25	0,4
20.2076.0013	12	G1/2	15	75	36	55	100	10	25	0,6
20.2076.0016	16	G1/2	15	75	41	68	130	10	25	0,7
20.2076.0020	20	G3/4	18	80	46	70	130	10	25	0,8
20.2076.0025	25	G1	20	90	55	82	180	12	25	1,2
20.2076.0032	32	G1 1/4	21	110	70	110	205	16	25	2,5
20.2076.0040	40	G1 1/2	23	120	80	115	205	16	25	3,2
20.2076.0050	50	G2	24	140	100	125	205	16	25	5,2

indications in (mm)

The dirty trap sleeve protects the electrical- and pneumatical valves for pollution.

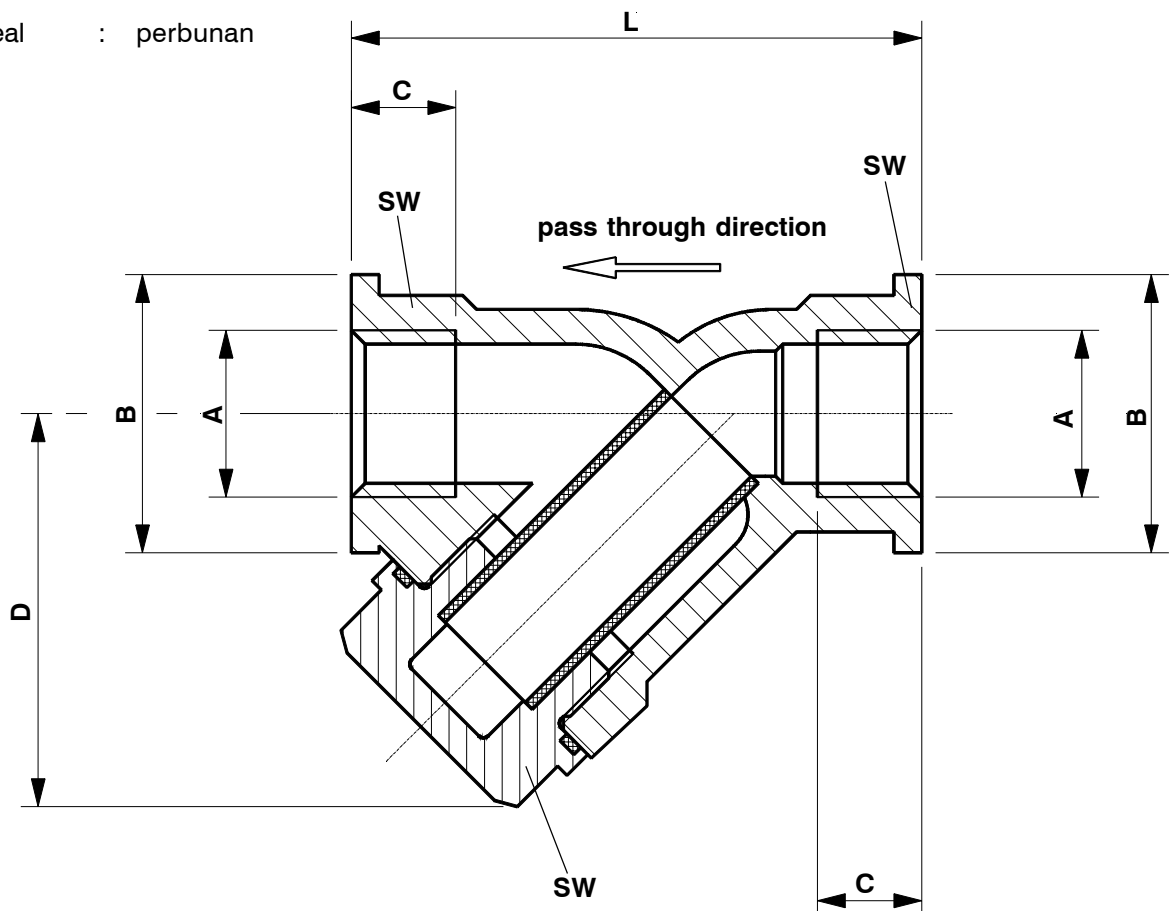
To avoid the falling out of the motor during obstruction or sailed particles, it is recommended to install the dirty trap sleeve between the pressure tank and the pressure reducing valve. Increase the operation reliability, the dirty trap sleeve protect the motor and the following instruments for falling out.

material : brass case

installation position: sieve insertion shown down
Please notice the pass through direction!

non corrosive double screen

packing seal : perbunan



Order-no.		Ø A	Ø B	C	D	L	SW		p _{max} (bar)	weight (kg)
20.2080.0500	×	G1/4	24	8,5	32	56	24		16	0,16
20.2080.1000	+	G3/8	38	9,5	42	66	32		32	0,27
20.2080.1100	+	G1	48	11	54	75	40		32	0,39
20.2080.1200	+	G1 ½	66	12	76	105	57		32	0,94
20.2080.1300	+	G2	82	15	91	123	70		32	1,4

Replacement sieve

indications in (mm)

20.2080.0501		G1/4
20.2080.1001		G3/4
20.2080.1201		G1 ½
20.2080.1101		G1
20.2080.1301		G2

× sieve mesh size : 0,35 mm
+ sieve mesh size : 0,8 - 1 mm

Changes reserved!

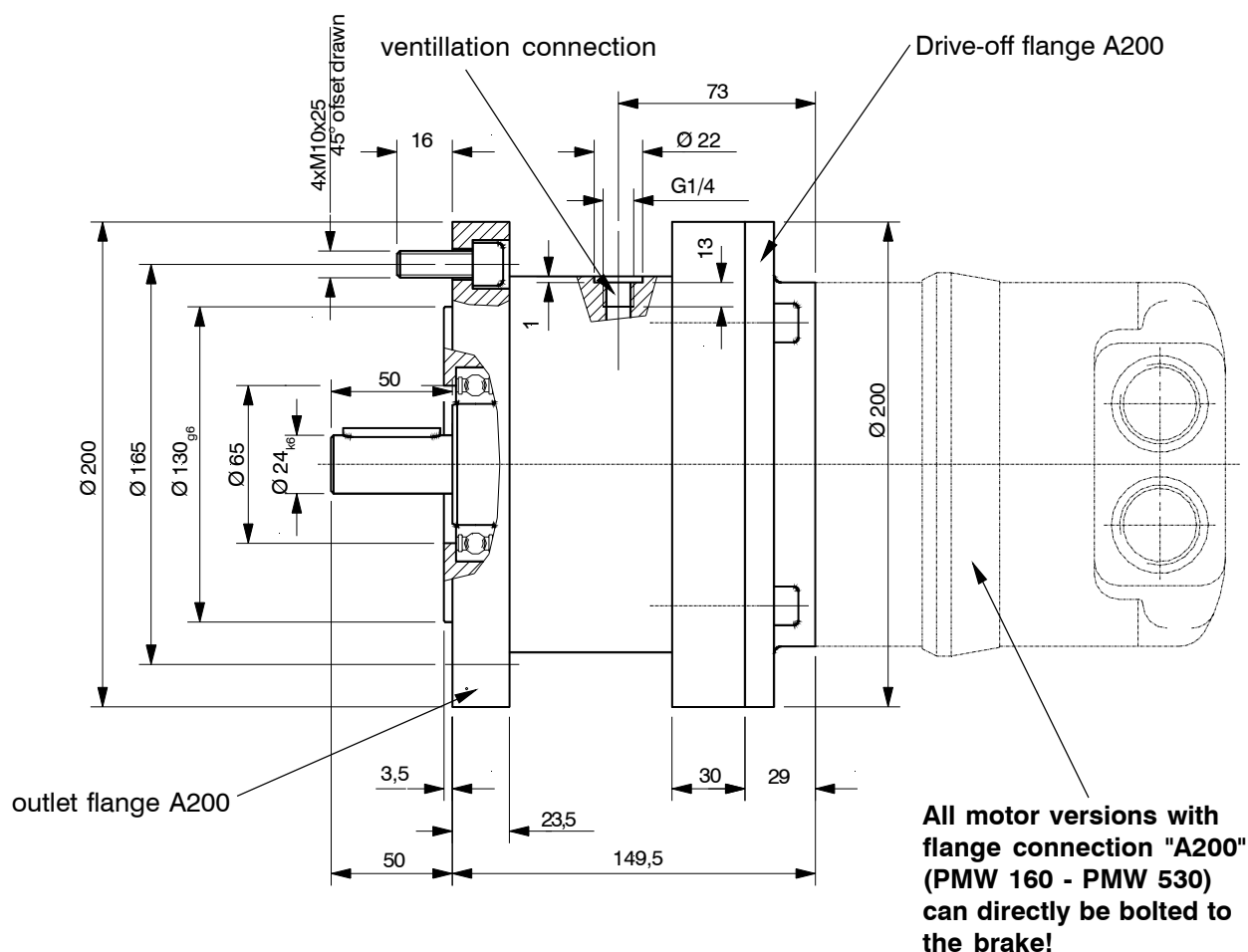
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The spring-operated multi-disk brake serves as a holding brake and can be opened at connection G1/4 with a working pressure about 2 - 10 bar.

The outlet flange A200 corresponds to DIN 42948.

The air should be filtered and have 1 up to 3 drops of oil per m³.

Ordering information: Spring-operated multi-disk brake LB42A200 to part No.: 12.1720.29
(Fastening material of PMW motors is belonging to scope of supply.)



Function:

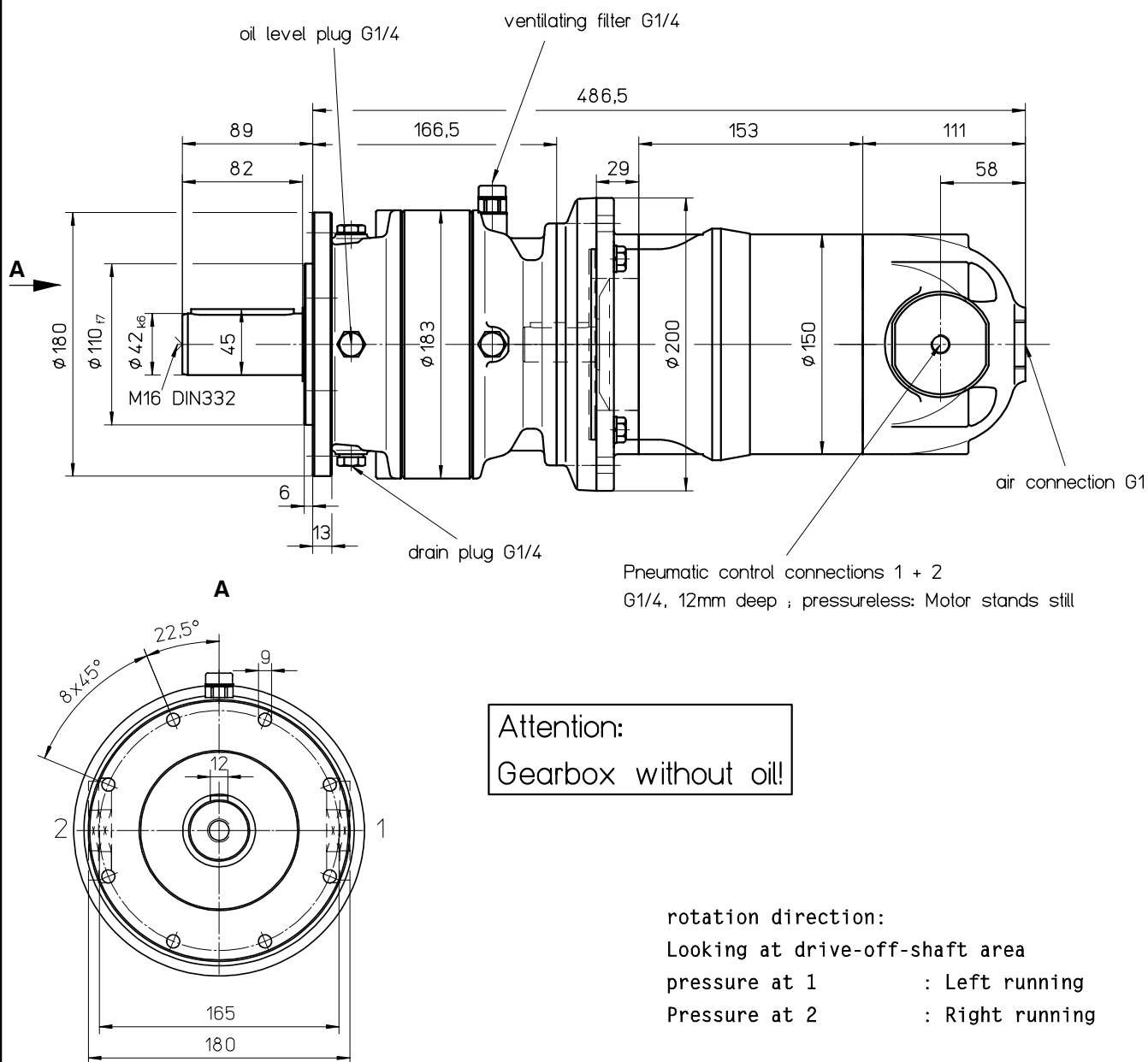
The axial pressure being necessary for the holding torque is being produced by spring power. The opening of the brake ensues at venting connection with 2 up to 10 bar. The full holding torque is reached at pressureless condition only. A reduced holding torque is possible as well.

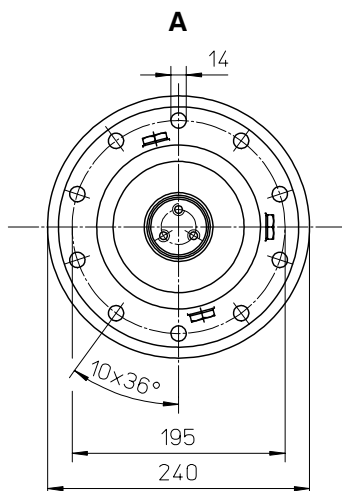
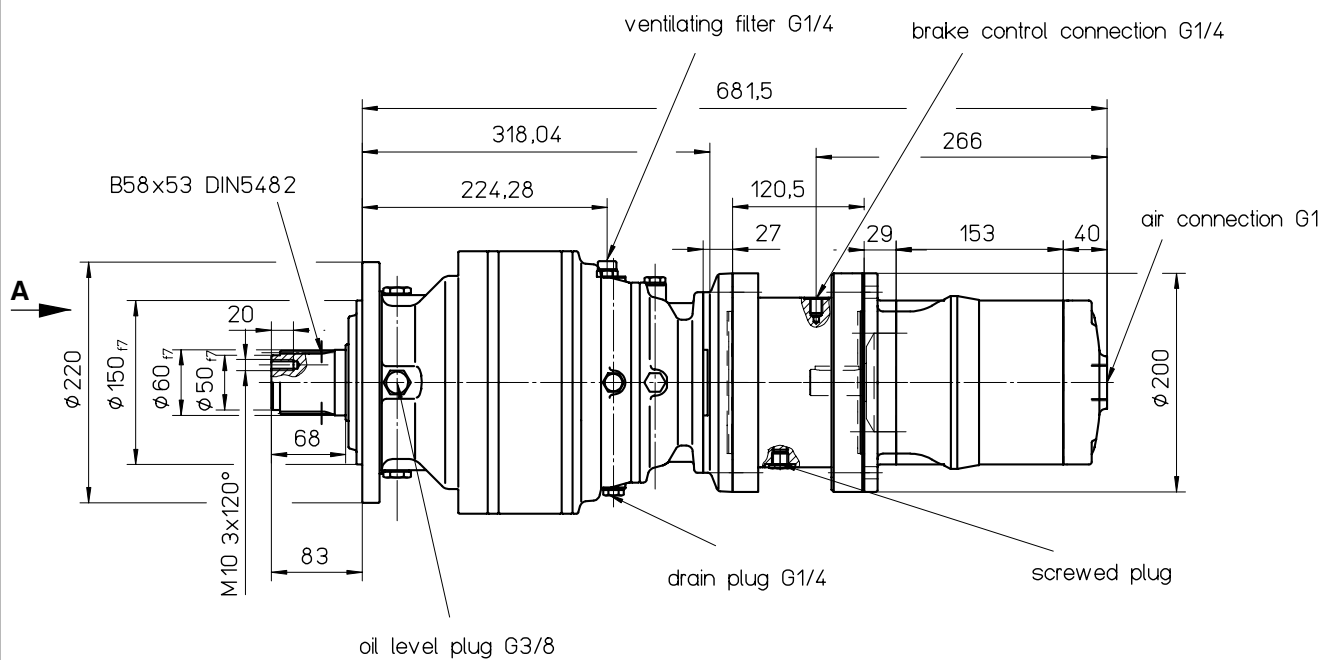
Technical data:

Medium	:	compressed air
Operating pressure	:	2 up to 10 bar
Brake laminas	:	dry running
Holding torque static	:	42 Nm
Holding torque dynamic	:	33 Nm
Temperature range	:	up to 90°C
Shutter speed	:	50 - 70 ms (regardless of steering vale reaktion time)
Weight	:	15 kg

Changes reserved!

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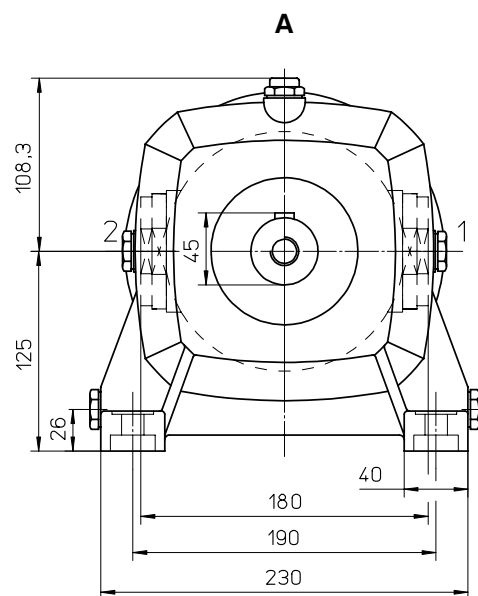
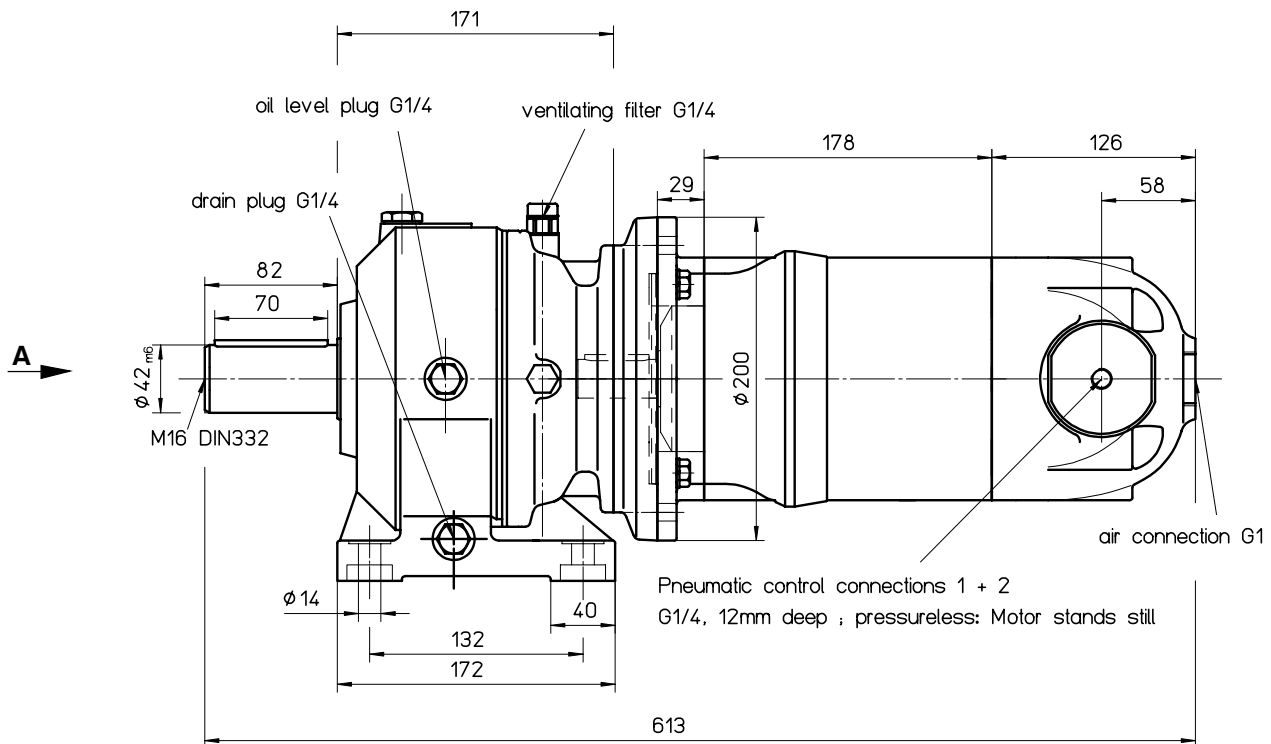


Attention:
 Gearbox without oil!

Rotation direction: left running
looking at drive-off-shaft area

Technical details in relation to the gearbox driving shaft

power : P= 4,7 KW
 torque : T= 1629 Nm
 pressure : p= 85 PSI
 speed : n= 9 - 27 rpm
 air consumption : Q= 6 cbm/min
 gear ration : i= 108,6
 installation position : horizontal B3



rotation direction:

Looking at drive-off-shaft area

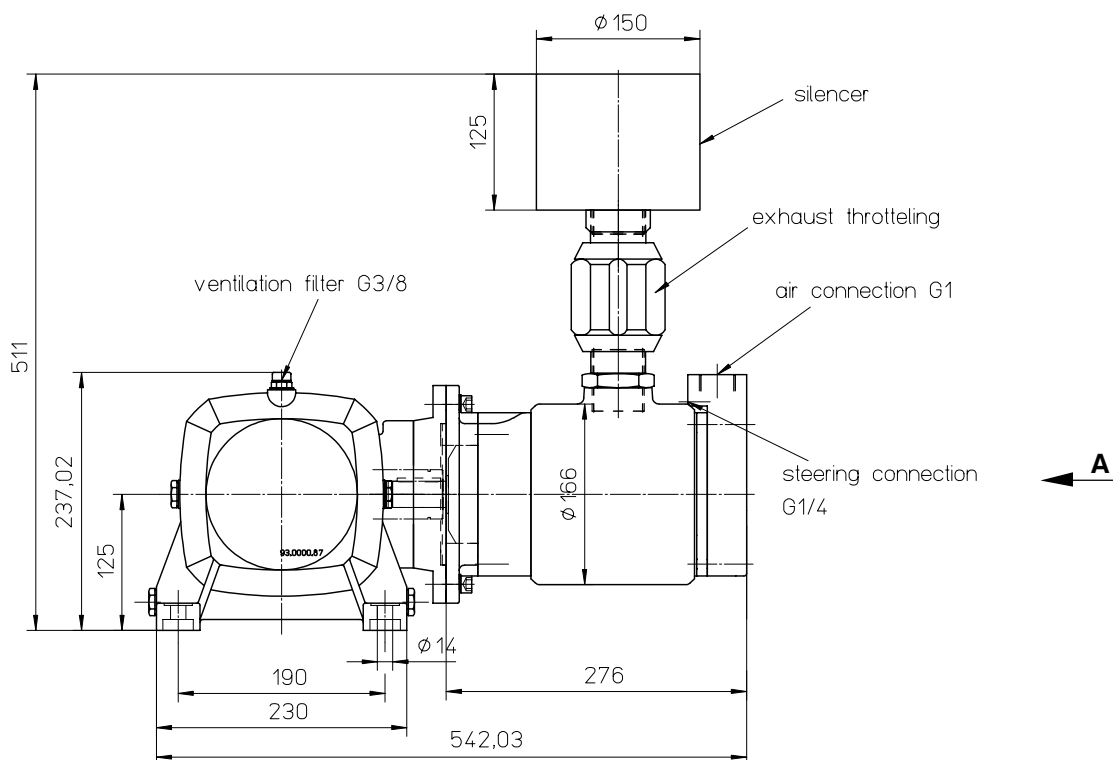
pressure at 1 : Left running

Pressure at 2 : Right running

Technical details in relation at the gearbox driving shaft

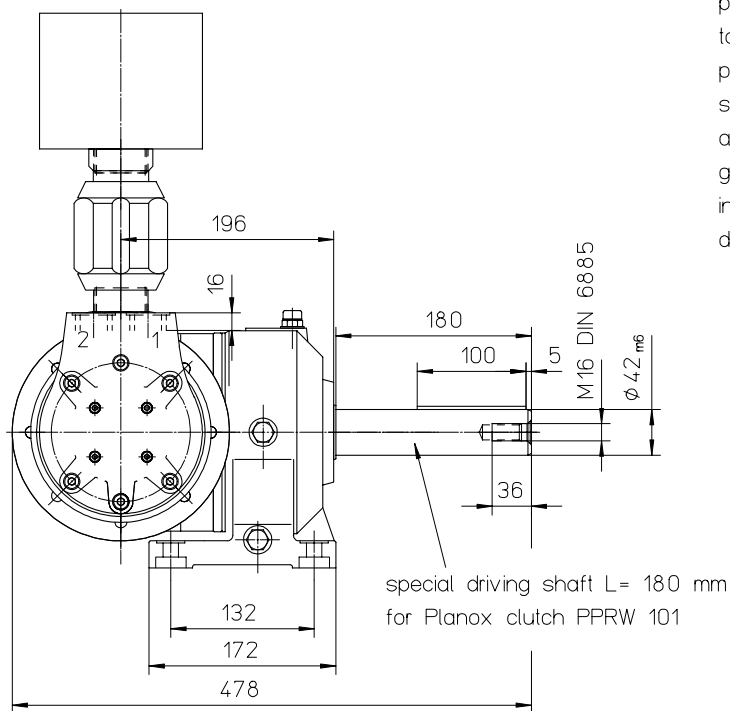
power : P= 7,8 KW
torque : T= 172 Nm
pressure : p= 96 PSI
speed range : n= 144 - 432 rpm
air consumption : Q= 9,5 cbm/min
gear ratio : i= 6,94
installation position : horizontal (B3)

Attention:
Gearbox without oil!



Technical details in relation at the gearbox driving shaft

A



power : P= 8,4 KW
torque : T= 400 Nm
pressure : p= 85 PSI
speed range : n= 60 - 200 rpm
air consumption : Q= 12,0 cbm/min
gear ratio : i= 16,53
installation position : horizontal
drive shaft position : right

Attention:
Gearbox without oil!

rotation direction:
Looking at drive-off-shaft area
pressure at 1 : Left running
Pressure at 2 : Right running



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