

Type code for Standard program

| | | | | | | | | | | | | | | | |
|----|-------------|----|----------|----|----|---|----|----|---|----|----|----|----|----|----|
| | A4VS | | O | | | / | | | - | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | | 09 | 10 | 11 | 12 | 13 | 14 |

| Hydraulic fluid / Version | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | |
|---------------------------|---|----|----|-----|-----|-----|-----|-----|-----|------|---|
| 01 | Mineral oil and HFD-fluids (no code) | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | HFA-, HFB- and HFC-Fluids | ● | ● | - | - | - | - | ● | - | - | E |
| | For operation on HFC-special performance version see RE 92053 (HFA and HFB see RE 90223) | | | ● | ● | ● | ● | | | | |
| | High-Speed-Version | - | - | - | - | ● | ● | ● | - | - | H |

| Axial piston unit | | |
|-------------------|------------------------------|------|
| 02 | Swash plate design, variable | A4VS |

| Boost pump (Impeller) | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | |
|-----------------------|--|----|----|-----|-----|-----|-----|-----|-----|------|---|
| 03 | without boost pump (no coden) | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | with boost pump (Impeller) only with port plate 25 (service port connections) | - | - | - | - | - | - | - | ● | - | L |

| Type of operation | | |
|-------------------|--------------------|---|
| 04 | Pump, open circuit | O |

| Size | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 |
|------|---|----|----|-----|-----|-----|-----|-----|-----|------|
| 05 | Displacement $V_{g,max}$ [cm ³] | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 |

| Control devices | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | |
|-----------------|--|-----|-----------------|-----------------|-----|-----|-----|-----|-----|------|----------------------|
| 06 | Pressure control | DR | ● | ● | ● | ● | ● | ● | ● | ● | DR.. |
| | Pressure control for parallel operation (RE 92060) | DP | ● | ● | ● | ● | ● | ● | ● | ● | DP.. |
| | Flow control | FR | ● | ● | ● | ● | ● | - | - | - | FR.. |
| | Pressure and flow control | DFR | ● | ● | ● | ● | ● | - | - | - | DFR.. |
| | Power control with hyperbolic curve (RE 92064) | LR | ● | ● | ● | ● | ● | ● | ● | ● | LR.. ¹⁾ |
| | Manual control (RE 92072) | MA | ● | ● | ● | ● | ● | ● | - | - | MA.. |
| | Electric motor control | EM | ● | ● | ● | ● | ● | ● | - | - | EM.. |
| | Hydraulic control, control volume dependent | HM | ● | ● | ● | ● | ● | ● | ● | ● | HM.. |
| | Hydr. control, with servo/proportional valve (RE 92076) | HS | ● | ● | ● | ● | ● | ● | ● | ● | HS.. ¹⁾ |
| | Electronic control | EO | ● | ● | ● | ● | ● | ● | ● | ● | EO.. ¹⁾ |
| | Hydraulic control, pilot pressure dependent (RE 92080) | HD | ● ²⁾ | ● ²⁾ | ● | ● | ● | ● | ● | ● | HD.. ¹⁾ |
| | Secondary speed control (RE 92056) | DS1 | ● | ● | ● | ● | ● | ● | ● | ○ | DS1.. ¹⁾ |
| | Electro-hydraulic control system DFE1 (RE 92088) System solution SYHDFEE (RE 30035) | | ● | ● | ● | ● | ● | - | - | - | DFE1.. ¹⁾ |

| Series | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | |
|--------|--|----|----|-----|-----|-----|-----|-----|-----|------|----------------------|
| 07 | | ● | ● | - | - | - | - | - | - | - | 10(11) ²⁾ |
| | | - | - | ● | ● | ● | ● | ● | ● | ● | 30 |

● available ○ in preparation - not available = preferred program

¹⁾ when operating on HF-fluids, observe the limitations as shown in the relevant data sheets of the control devices and the mounted valves

²⁾ Versions with HD-controls only in series 11

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| | | | | | | | | | | | | | | | |
|----|-------------|----|----------|----|----|---|----|----|---|----|----|----|----|----|----|
| | A4VS | | O | | | / | | | - | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | | 09 | 10 | 11 | 12 | 13 | 14 |

Direction of rotation

| | | | |
|----|------------------------|------------|----------|
| 08 | with view on shaft end | right hand | R |
| | | left hand | L |

Seals

| | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | |
|----|---|----|----|-----|-----|-----|-----|-----|-----|------|----------|
| 09 | NBR (Nitrile-rubber), Shaft seal FKM (Fluoro-rubber) | ● | ● | ● | ● | ● | ● | ● | ● | ● | P |
| | FKM (Fluoro-rubber) / for operation on HFD | ● | ● | ● | ● | ● | ● | ● | ● | ● | V |
| | HFC-special performance version see RE 92053 | - | - | ● | ● | ● | ● | - | - | - | F |

Shaft end

| | | |
|----|----------------------------------|----------|
| 10 | Keyed parallel shaft to DIN 6885 | P |
| | Splined shaft to DIN 5480 | Z |

Mounting flange

| | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | |
|----|------------------------------|----|----|-----|-----|-----|-----|-----|-----|------|----------|
| 11 | similar to ISO 3019-2 metric | ● | ● | ● | ● | ● | ● | - | - | - | B |
| | 4-hole | | | | | | | | | | |
| | 8-hole | - | - | - | - | - | - | ● | ● | ● | H |

Service line connections

| | | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|---|------------------|
| 12 | Port B and S: SAE flange on side, 90° offset, metric fixing screws | ● | ● | ● | ● | ● | ● | - | - | - | 13 ¹⁾ |
| | Port B and S: SAE flange on side, 90° offset, metric fixing screws 2. pressure port B ₁ opposite B – closed with blanking plate on delivery | ● | ● | ● | ● | ● | ● | ● | ● | ● | 25 |

● available ○ in preparation = preferred program

¹⁾ only with through drive code N00 and K..

continuation of type code see page 4

Type code for Standard program

| | | | | | | | | | | | | | | | |
|----|-------------|----|----------|----|----|---|----|----|---|----|----|----|----|----|----|
| | A4VS | | O | | | / | | | - | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | | 09 | 10 | 11 | 12 | 13 | 14 |

Through drive

| | | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | |
|--|------------------------|---------------------------------------|----|----|-----|-----|-----|-----|-----|-----|------|------|
| without auxiliary pump, without through drive | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | N00 |
| with through drive for mounting an axial piston unit, gear or radial piston pump | | | ● | ● | - | - | - | - | ● | ● | ● | K... |
| Universal through drive, can be adapted | | | - | - | ● | ● | ● | ● | - | - | - | U... |
| Flange splined shaft coupler ¹⁾ to mount | | | | | | | | | | | | |
| 125, 4-hole (ISO ²⁾) | 32x2x14x9g | A4VSO/G 40 | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | 31 |
| 140, 4-hole (ISO ²⁾) | 40x2x18x9g | A4VSO/G 71 | - | ● | ● | ● | ● | ● | ● | ● | ○ | 33 |
| 160, 4-hole (ISO ²⁾) | 50x2x24x9g | A4VSO/G 125 | - | - | ● | ● | ● | ● | ● | ● | ○ | 34 |
| 160, 4-hole (ISO ²⁾) | 50x2x24x9g | A4VSO/G 180 | - | - | - | ● | ● | ● | ● | ● | ○ | 34 |
| 224, 4-hole (ISO ²⁾) | 60x2x28x9g | A4VSO/G, A4CSG 250 | - | - | - | - | ● | ● | ● | ● | ○ | 35 |
| 224, 4-hole (ISO ²⁾) | 70x3x22x9g | A4VSO/G, A4CSG 355 | - | - | - | - | - | ● | ● | ○ | ○ | 77 |
| 315, 8-hole (ISO ²⁾) | 80x3x25x9g | A4VSO/G, A4CSG 500 | - | - | - | - | - | - | ● | ● | ○ | 43 |
| 400, 8-hole (ISO ²⁾) | 90x3x28x9g | A4VSO/G, A4CSG 750 | - | - | - | - | - | - | - | ● | ○ | 76 |
| 400, 8-hole (ISO ²⁾) | 100x3x32x9g | A4VSO/G 1000 | - | - | - | - | - | - | - | - | ● | 88 |
| 80, 2-hole (ISO ²⁾) | 3/4in 19-4 (SAE A-B) | A10VSO 10/52, 18/31 | ○ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | B2 |
| 100, 2-hole (ISO ²⁾) | 7/8in 22-4 (SAE B) | A10VSO 28/31 | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | B3 |
| 100, 2-hole (ISO ²⁾) | 1in 25-4 (SAE B-B) | A10VSO 45/31 | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | B4 |
| 125, 2-hole (ISO ²⁾) | 1 1/4in 32-4 (SAE C) | A10VSO 71/31 | - | ● | ● | ● | ● | ● | ○ | ○ | ○ | B5 |
| 160, 4-hole (ISO ²⁾) | 1 1/4in 32-4 (SAE C) | A10VSO 71/32 | - | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | B8 |
| 125, 2-hole (ISO ²⁾) | 1 1/2in 38-4 (SAE C-C) | A10VSO 100/31 | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | B6 |
| 180, 4-hole (ISO ²⁾) | 1 1/2in 38-4 (SAE C-C) | A10VSO 100/32 | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | B9 |
| 180, 4-hole (ISO ²⁾) | 1 3/4in 44-4 (SAE D) | A10VSO 140/31/32 | - | - | - | ● | ● | ● | ● | ○ | ○ | B7 |
| 82-2 (SAE A) | 5/8in 16-4 (SAE A) | AZ-PF-1X-004...022 | ● | ● | ● | ● | ● | ● | ● | ● | ○ | 01 |
| 82-2 (SAE A) | 3/4in 19-4 (SAE A-B) | A10VSO 10, 18/31/52(3) | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 52 |
| 101-2 (SAE B) | 7/8in 22-4 (SAE B) | AZ-PN-1X-020...032, A10VO 28/31/52(3) | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | 68 |
| 101-2 (SAE B) | 1in 25-4 (SAE B-B) | PGH4, A10VO45/31 | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | 04 |
| 127-2 (SAE C) | 1 1/4in 32-4 (SAE C) | A10VO 71/31 | - | ● | ● | ● | ● | ● | ● | ○ | ○ | 07 |
| 127-2 (SAE C) | 1 1/2in 38-4 (SAE C-C) | PGH5, A10VO100/31 | - | - | ● | ● | ● | ● | ● | ○ | ○ | 24 |
| 152-4 (SAE D) | 1 3/4in 44-4 (SAE D) | A10VO 140/31 | - | - | - | ● | ● | ● | ● | ○ | ○ | 17 |
| Ø 63, metr.4-hole | for keyed shaft Ø 25 | R4 | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 57 |
| with through drive shaft, without coupler, without adapter flange, closed with cover plate | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | 99 |

Filtration (only with HS- and DS-control)

| | | |
|----|---|---|
| 14 | without filter | N |
| | Sandwich plate filter (with HS- and DS-control see RE 92076 and RE 92056) | Z |

¹⁾ Keyed shaft coupler on K/U 57 through drive ²⁾ to ISO 3019-2 metric

Combination pumps

- Combination pumps consisting of axial piston units – ordering example see page 38; overview mounting options see page 39
- if delivery with mounted gear or radial piston pump is desired, please consult us.

● available ○ in preparation - not available = preferred program

Technical data

Table of values (theoretical values, without considering efficiencies and tolerances; values rounded off)

| Size | | 40 | 71 | 125 | 180 | 250/ H ¹⁾ | 355/ H ¹⁾ | 500/ H ¹⁾ | 750 | 750 with Impeller | 1000 |
|--|-------------------------------|--------|--------|------|-------|-------------------------|-------------------------|-------------------------|-------------------|-------------------------|------|
| Displacement | $V_{g \max}$ cm ³ | 40 | 71 | 125 | 180 | 250/ 250 | 355/ 355 | 500/ 500 | 750 | 750 | 1000 |
| Speed ²⁾ | | | | | | | | | | | |
| max. at $V_{g \max}$ | $n_{o \max}$ rpm | 2600 | 2200 | 1800 | 1800 | 1500/ 1900 | 1500/ 1700 | 1320/ 1500 | 1200 | 1500 | 1000 |
| max. at $V_g \leq V_{g \max}$ (speed limit) | $n_{o \max \text{ zul.}}$ rpm | 3200 | 2700 | 2200 | 2100 | 1800/ 2100 | 1700/ 1900 | 1600/ 1800 | 1500 | 1500 | 1200 |
| Flow | | | | | | | | | | | |
| at $n_{o \max}$ | $q_{vo \max}$ L/min | 104 | 156 | 225 | 324 | 375/ 475 | 533/ 604 | 660/ 750 | 900 | 1125 | 1000 |
| at $n_E = 1500$ rpm | $q_{VE \max}$ L/min | 60 | 107 | 186 | 270 | 375 | 533 | 581 ³⁾ | 770 ³⁾ | 1125 | – |
| Power $\Delta p = 350$ bar | | | | | | | | | | | |
| at $n_{o \max}$ | $P_{o \max}$ kW | 61 | 91 | 131 | 189 | 219/ 277 | 311/ 352 | 385/ 437 | 525 | 656 | 583 |
| at $n_E = 1500$ rpm | $P_{E \max}$ kW | 35 | 62 | 109 | 158 | 219 | 311 | 339 ³⁾ | 449 ³⁾ | 656 | – |
| Torque | | | | | | | | | | | |
| bat $V_{g \max}$ $\Delta p = 350$ bar | T_{\max} Nm | 223 | 395 | 696 | 1002 | 1391 | 1976 | 2783 | 4174 | 4174 | 5565 |
| $\Delta p = 100$ bar | T Nm | 64 | 113 | 199 | 286 | 398 | 564 | 795 | 1193 | 1193 | 1590 |
| Rotary stiffness | | | | | | | | | | | |
| Shaft end P | c kNm/rad | 80 | 146 | 260 | 328 | 527 | 800 | 1145 | 1860 | 1860 | 2730 |
| Shaft end Z | c kNm/rad | 77 | 146 | 263 | 332 | 543 | 770 | 1136 | 1812 | 1812 | 2845 |
| Moment of inertia rotary group | J_{TW} kgm ² | 0,0049 | 0,0121 | 0,03 | 0,055 | 0,0959 | 0,19 | 0,3325 | 0,66 | 0,66 | 1,20 |
| Angular acceleration max. ⁴⁾ | α rad/s ² | 17000 | 11000 | 8000 | 6800 | 4800 | 3600 | 2800 | 2000 | 2000 | 1450 |
| Case volume | V L | 2 | 2,5 | 5 | 4 | 10 | 8 | 14 | 19 | 22 | 27 |
| Weight (with press. contr.) approx. | m kg | 39 | 53 | 88 | 102 | 184 | 207 | 320 | 460 | 490 | 605 |

1) High-Speed-Version

2) Values are valid with inlet pressure p_{abs} 1 bar at inlet port S, with increased speed up to speed limit please observe diagram, page 7

3) $V_g < V_{g \max}$

4) – The range of validity lies between zero and the maximum permissible drive speeds.

Valid for external excitation (eg. diesel engine 2- to 8-fold rotary frequency, cardan shaft 2-fold rotary frequency).

– The limiting value is only valid for a single pump.

– The loading capacity of the connecting parts must be considered.

Notes

Exceeding the maximum or falling below the minimum permissible values can lead to a loss of function, a reduction in operational service life or total destruction of the axial piston unit.

The permissible values can be determined through calculation.

Determination of pump size

$$\text{Flow } q_v = \frac{V_g \cdot n \cdot \eta_v}{1000} \quad [\text{L/min}]$$

V_g = geometr. displacement per rev. in cm³

Δp = pressure difference in bar

$$\text{Drive torque } T = \frac{V_g \cdot \Delta p}{20 \cdot \pi \cdot \eta_{mh}} \quad [\text{Nm}]$$

n = speed in rpm

η_v = volumetric efficiency

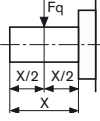
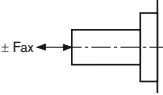
$$\text{Power } P = \frac{2\pi \cdot T \cdot n}{60000} = \frac{q_v \cdot \Delta p}{600 \cdot \eta_t} \quad [\text{kW}]$$

η_{mh} = mechanical-hydraulic efficiency

η_t = overall efficiency ($\eta_t = \eta_v \cdot \eta_{mh}$)

Technical data

Permissible radial and axial forces on the drive shaft

| Size | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750* | 1000 |
|--|------|------|------|------|------|------|------|------|------|
| Radial force, max.  at X/2 $F_{q\ max}$ N | 1000 | 1200 | 1600 | 2000 | 2000 | 2200 | 2500 | 3000 | 3500 |
| Axial force, max.  $\pm F_{ax\ max}$ N | 600 | 800 | 1000 | 1400 | 1800 | 2000 | 2000 | 2200 | 2200 |

* also valid for versions with boost pump

Summary of controls

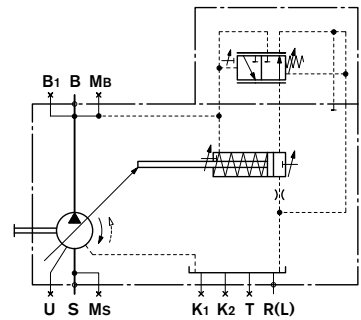
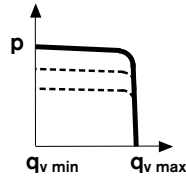
Pressure control DR

The DR- pressure control limits the maximum pressure at the pump outlet within the pump's control range. This max. pressure level can be steplessly set at the control valve.

Setting range 20...350 bar

Optional:

Remote control (DRG)

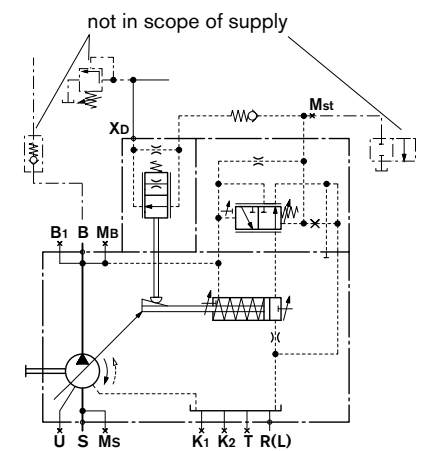
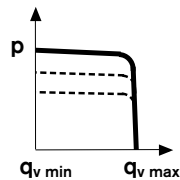


Pressure control for parallel operation DP

Suitable for pressure control with multiple A4VSO axial piston pumps in parallel operation.

Optional:

Flow control (DPF)



Flow control FR

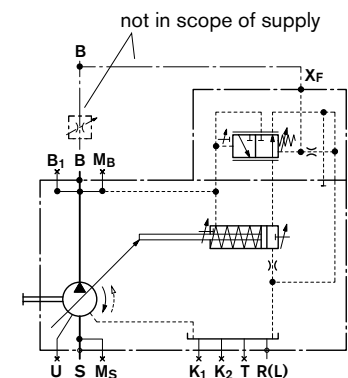
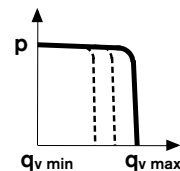
Maintains a constant flow in a hydraulic system.

Optional:

Remote pressure control (FRG)

connection between X_F and tank closed

(FR1, FRG1)

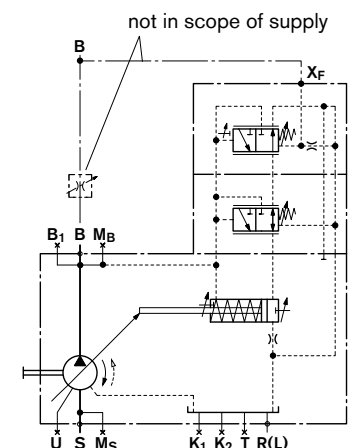
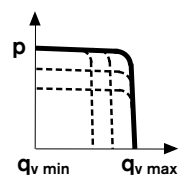


Pressure and flow control DFR

This control maintains a constant flow from the pump even under varying operating conditions. Overriding this control is a mechanically adjustable pressure control.

Optional:

connection between X_F and tank closed (DFR1)



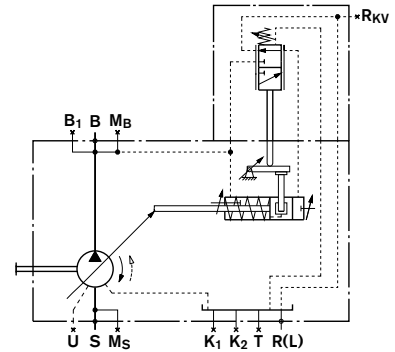
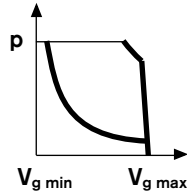
Summary of controls

Power control LR2 with hyperbolic characteristic

The hyperbolic power control maintains a constant preset drive power at the same input speed.

Optional:

- Pressure control (LR2D), remotely controlled (LR2G);
- Flow control (LR2F, LR2S);
- Hydraulic stroke limiter (LR2H);
- Mechanical stroke limiter (LR2M);
- Hydraulic two-point control (LR2Z);
- with electric unloading valve for easy start (LR2Y).

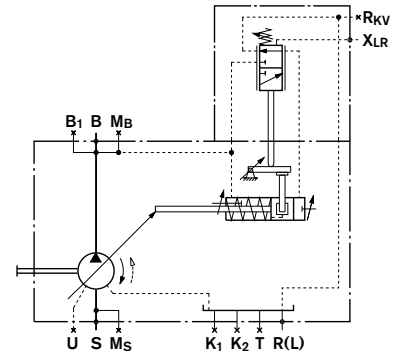
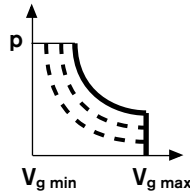


Power control LR3 with remote control of power characteristics

This power control maintains a constant preset drive power, with remote control of the power characteristics.

Optional:

- Pressure control (LR3D), remotely controlled (LR3G);
- Flow control (LR3F, LR3S);
- Hydraulic stroke control (LR3H);
- Mechanical stroke control (LR3M);
- Hydraulic two-point control (LR3Z).
- with electric unloading valve for easy start (LR3Y)



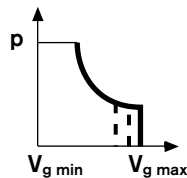
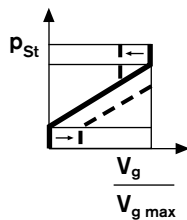
Hydraulic control LR2N and LR3N pilot pressure dependent, initial position $V_{g \min}$

With overriding power control.

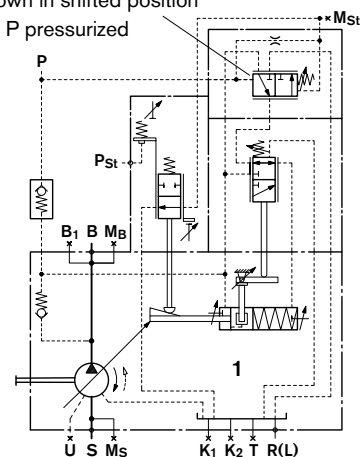
The pump displacement is proportional to a pilot pressure signal in P_{St} .
The additional hyperbolic power control overrides the pilot pressure signal and holds the preset drive power constant.

Optional:

- Remote control of power characteristics (LR3N)
- Pressure control (LR.DN),
- Remote pressure control (LR.GN)
- Electric control of pilot pressure signal (LR.NT)



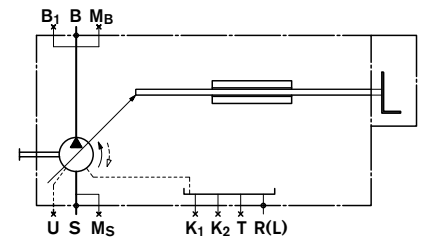
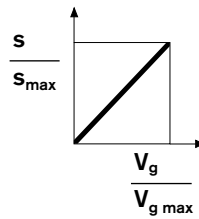
shown in shifted position
i.e. P pressurized



Summary of controls

Manual control MA

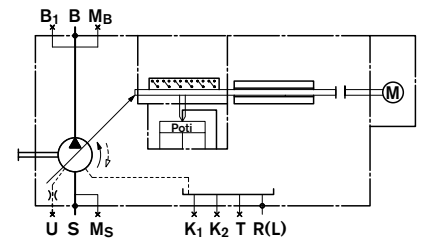
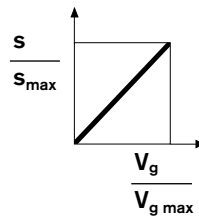
Stepless adjustment of displacement by means of a handwheel.



Electric motor control EM

Stepless adjustment of displacement via an electric motor.

Various intermediate displacement values can be selected with a programmed sequence control, by means of built on limit switches and an optional potentiometer for feedback signal.



Hydraulic control HD pilot pressure dependent

Stepless adjustment of displacement proportional to a pilot pressure signal. The displacement is proportional to the applied pilot pressure (Difference between pilot pressure level and pump case pressure).

Optional:

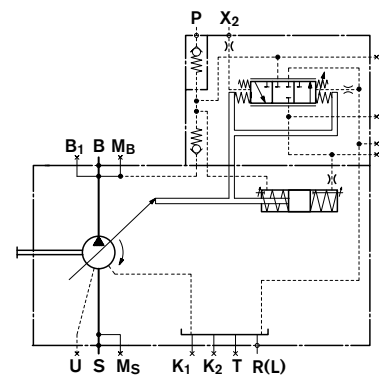
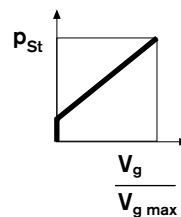
Pilot pressure curves (HD1, HD2, HD3)

Pressure control (HD.B),

Remote pressure control (HD.GB)

Power control (HD1P)

with electric control of pilot pressure (HD1T)



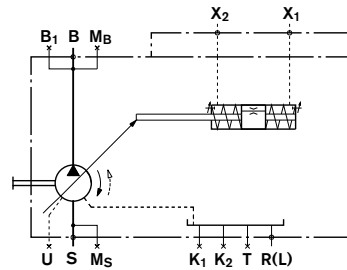
Summary of controls

Hydraulic control HM 1/2, control volume dependent

The pump displacement is infinitely variable in relation to the control oil volume in ports X₁ and X₂.

Application:

- 2-point control
- basic control device for servo or proportional valve control



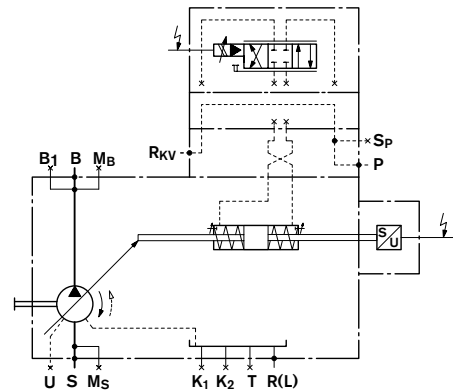
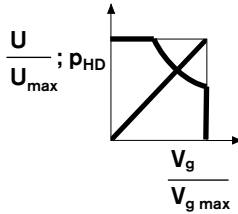
Control system HS, HS4, with servo or proportional valve

The stepless displacement control is accomplished by means of servo or proportional valve with electrical feedback of the swivel angle.

The HS4P-control system is fitted with a built on pressure transducer so that it can be utilized for electrical pressure and power control.

Optional:

- Servo valve (HS);
- Proportional valve (HS4);
- Short circuit valve (HSK, HS4K, HS4KP);
- Without valves (HSE, HS4E).
- For oil-immersed use (HS4M)



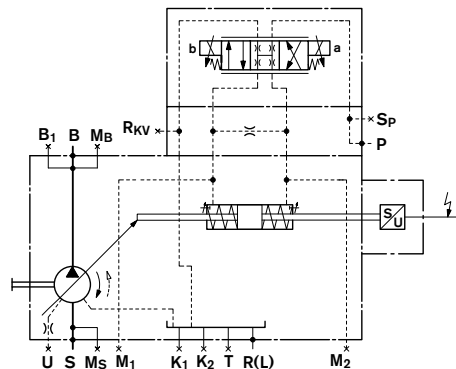
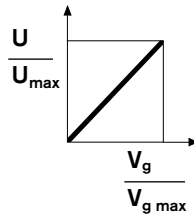
Control system EO1/2

The stepless adjustment of the displacement is accomplished by means of a proportional valve with electrical feedback of the swivel angle.

This control can be utilized as an electric control of displacement.

Optional:

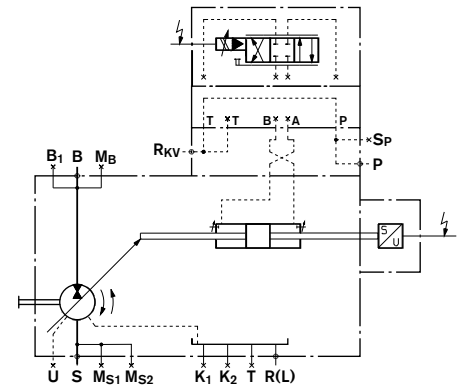
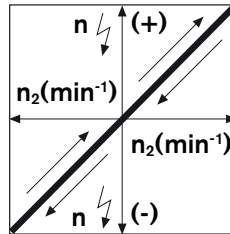
- Control pressure range (EO1, EO2)
- Short circuit valve (EO1K, EO2K)
- Without valves (EO1E, EO2E)



Summary of controls

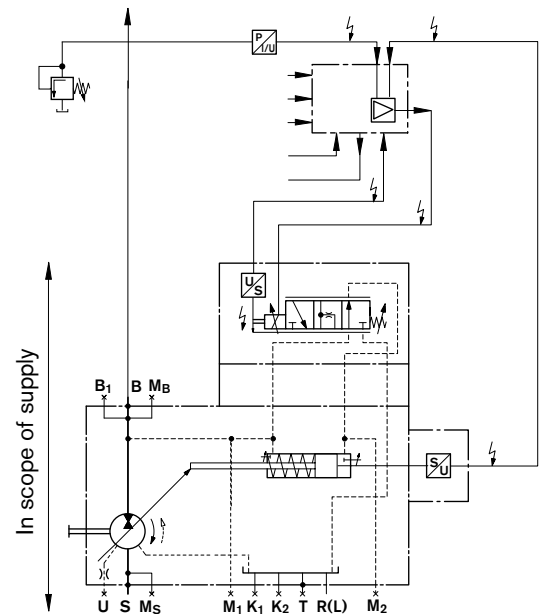
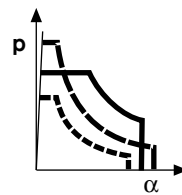
Speed control DS1, secondary controlled

The speed control DS1 controls the secondary unit (motor) in such a manner, that this motor delivers sufficient torque to maintain the required output speed. When connected to a constant pressure system, this torque is proportional to motor displacement and thus also proportional to the swivel angle.



Electro hydraulic control system DFE1

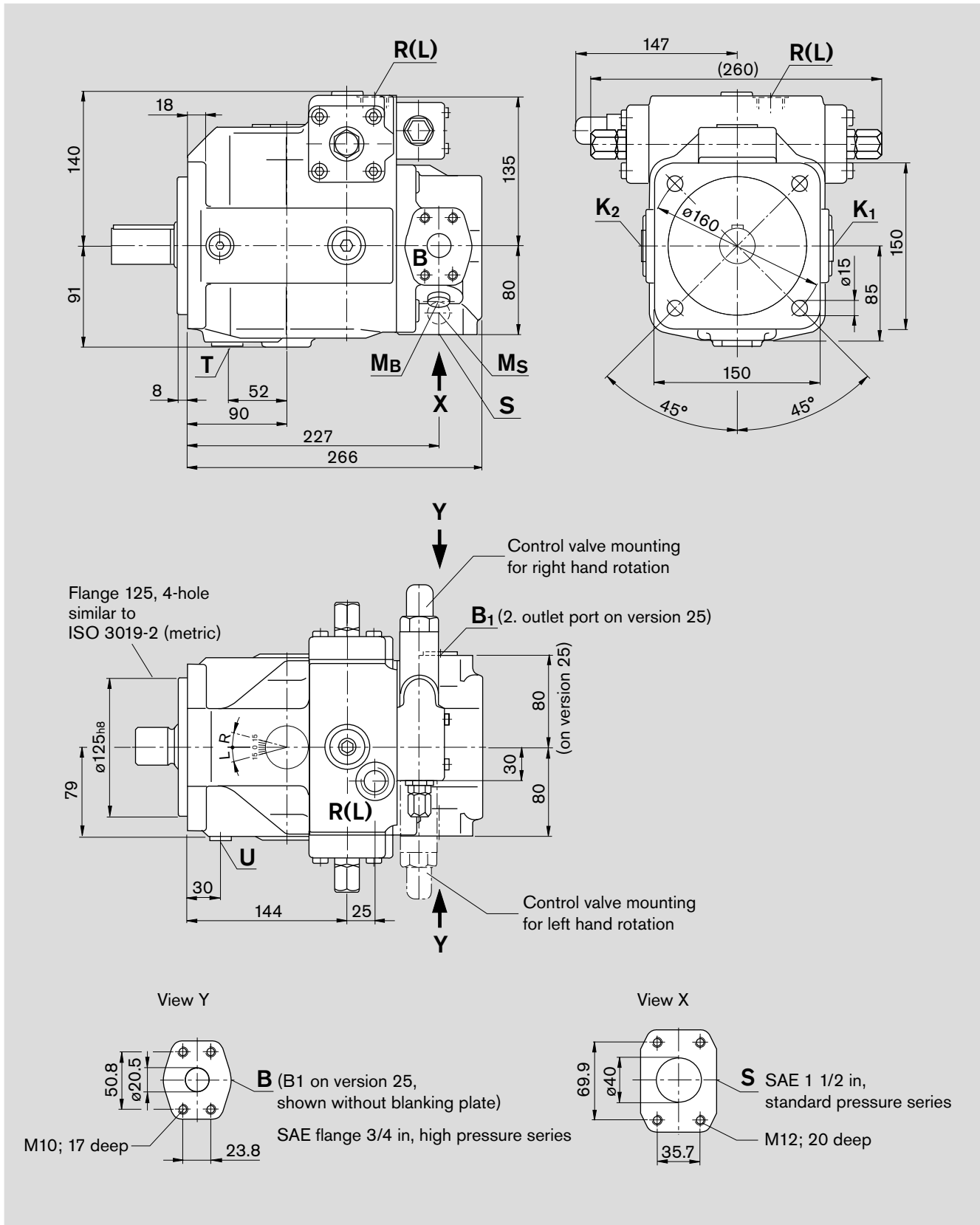
The power, pressure and swivel angle control of the variable pump A4VSO...DFE1 is accomplished by means of an electrically controlled proportional valve. A current signal to the proportional valve moves the control piston and determines via an integrated positional transducer the cradle's swivel angle and thus the pump flow. When the electric drive motor is switched off and the system is pressureless, the bias spring in the control chamber will swivel the pump to max. displacement ($V_{g \text{ max}}$).



Dimensions, size 40

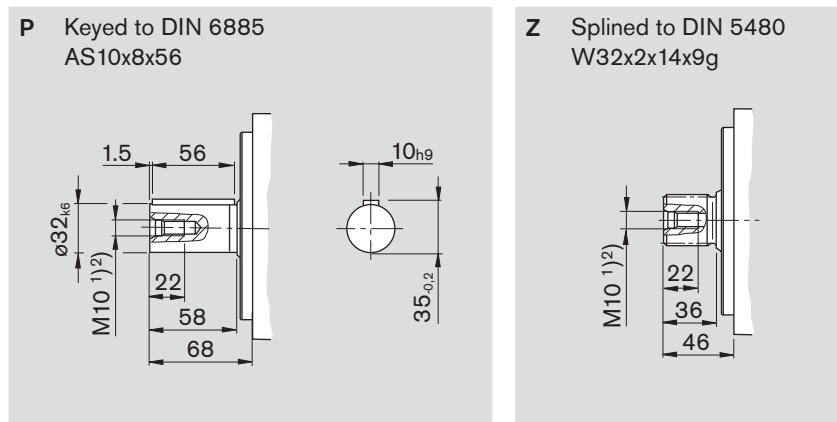
Series 1

(Example: pressure control; for exact dimensions of the control devices see separate data sheets)



Dimensions, size 40

Shaft ends



Ports

| | | | max. tightening torque ²⁾ |
|---------------------------------|--|---|--------------------------------------|
| S | Suction port (standard pressure series) Fixing thread | SAE J518 ³⁾ 1 1/2 in DIN 13 M12x1,75; 20 deep ²⁾ | |
| K ₁ , K ₂ | Flushing port | DIN 3852 M22x1,5;14 deep (plugged) | 210 Nm |
| T | Drain | DIN 3852 M22x1,5;14 deep (plugged) | 210 Nm |
| M _B | Measuring port outlet pressure | DIN 3852 M14x1,5;12 deep (plugged) | 80 Nm |
| M _S | Measuring port suction pressure | DIN 3852 M14x1,5;12 deep (plugged) | 80 Nm |
| R(L) | Fill and bleed (case drain port) | DIN 3852 M22x1,5; 14 deep | 210 Nm |
| U | Flushing port | DIN 3852 M14x1,5;12 deep (plugged) | 80 Nm |
| on version 13 | | | |
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 3/4 in DIN 13 M10x1,5; 17 deep ²⁾ | |
| B ₁ | Additional port | DIN 3852 M22x1,5;14 deep (plugged) | 210 Nm |
| on version 25 | | | |
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 3/4 in DIN 13 M10x1,5; 17 deep ²⁾ | |
| B ₁ | 2. press. port (high pressre series) Fixing thread | SAE J518 ³⁾ 3/4 in (closed with blanking plate) DIN 13 M10x1,5; 17 deep ²⁾ | |

¹⁾ Center bore to DIN 332 (threaded to DIN 13)

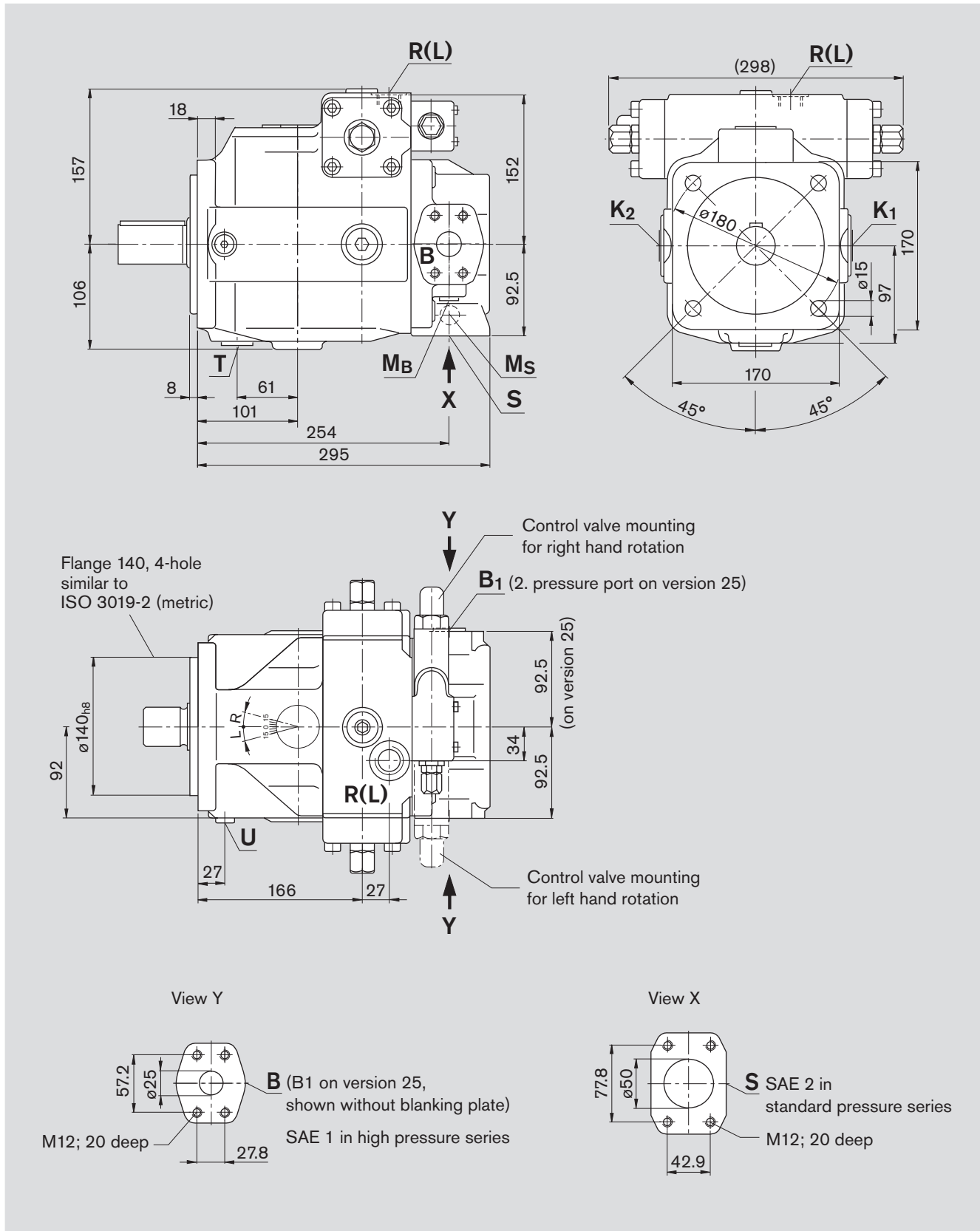
²⁾ for the max. tightening torques please observe the manufacturer's information on the used fittings and the general information on page 68

³⁾ Caution: metric thread deviates from standard

Dimensions, size 71

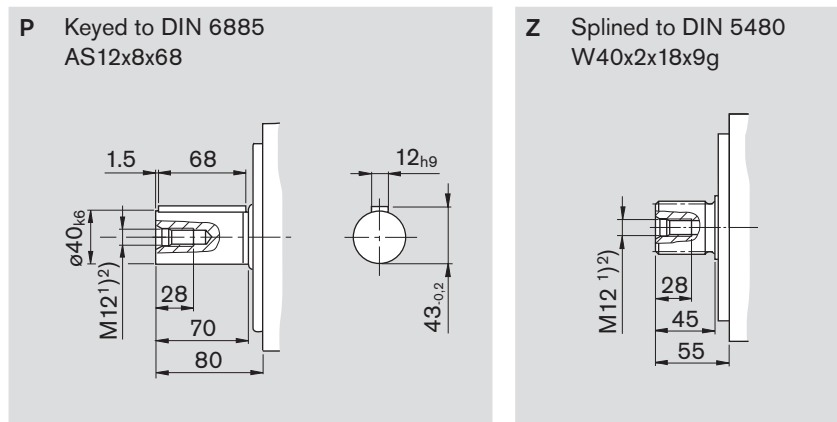
Series 1

(Example: pressure control; for exact dimensions of control devices see separate data sheets)



Dimensions, size 71

Shaft ends



Ports

| | | | | max. tightening torque ²⁾ |
|---------------------------------|---|------------------------|-----------------------------------|--------------------------------------|
| S | Suction port (standard pressure series) | SAE J518 ³⁾ | 2 in | |
| | Fixing thread | DIN 13 | M12x1,75; 20 deep ²⁾ | |
| K ₁ , K ₂ | Flushing port | DIN 3852 | M27x2;16 deep (plugged) | 330 Nm |
| T | Drain | DIN 3852 | M27x2;16 deep (plugged) | 330 Nm |
| M _B | Measuring port outlet pressure | DIN 3852 | M14x1,5;12 deep (plugged) | 80 Nm |
| M _S | Measuring port suction pressure | DIN 3852 | M14x1,5;12 deep (plugged) | 80 Nm |
| R(L) | Fill + air bleed (case drain port) | DIN 3852 | M27x2; 16 deep | 330 Nm |
| U | Flushing port | DIN 3852 | M14x1,5;12 deep (plugged) | 80 Nm |
| on version 13 | | | | |
| B | Pressure port (high pressure series) | SAE J518 ³⁾ | 1 in | |
| | Fixing thread | DIN 13 | M12x1,75; 20 deep ²⁾ | |
| B ₁ | Additional port | DIN 3852 | M27x2;16 deep (plugged) | 330 Nm |
| on version 25 | | | | |
| B | Pressure port (high pressure series) | SAE J518 ³⁾ | 1 in | |
| | Fixing thread | DIN 13 | M12x1,75; 20 deep ²⁾ | |
| B ₁ | 2. pressure port (high pressure series) | SAE J518 ³⁾ | 1 in (closed with blanking plate) | |
| | Fixing thread | DIN 13 | M12x1,75; 20 deep ²⁾ | |

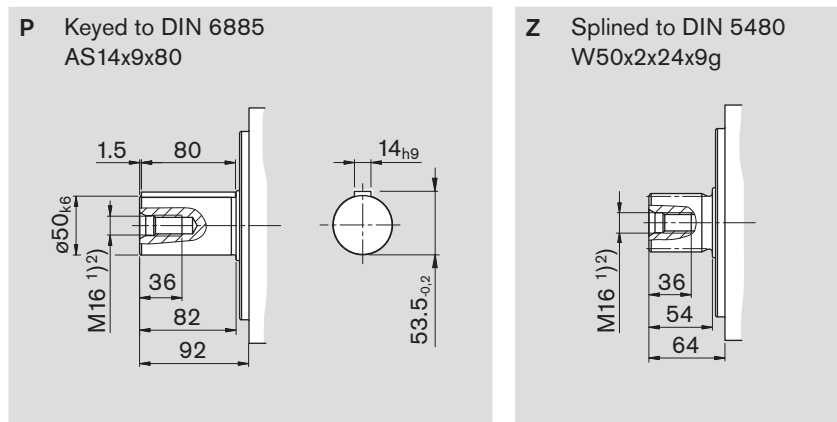
¹⁾ Center bore to DIN 332 (thread to DIN 13)

²⁾ for the max. tightening torques please observe the manufacturer's information on the used fittings and the general information on page 68

³⁾ Caution: metric thread deviates from standard

Dimensions, size 125

Shaft ends



Ports

| | | | max. tightening torque ²⁾ |
|---------------------------------|--|---|--------------------------------------|
| S | Suction port (standard pressure series) Fixing thread | SAE J518 ³⁾ 2 1/2 in DIN 13 M12x1,75; 17 deep ²⁾ | |
| K ₁ , K ₂ | Flushing port | DIN 3852 M33x2; 18 deep (plugged) | 540 Nm |
| T | Drain | DIN 3852 M33x2; 18 deep (plugged) | 540 Nm |
| M _B | Measuring port outlet pressure | DIN 3852 M14x1,5; 12 deep (plugged) | 80 Nm |
| M _S | Measuring port suction pressure | DIN 3852 M14x1,5; 12 deep (plugged) | 80 Nm |
| R(L) | Fill + air bleed (case drain port) | DIN 3852 M33x2; 18 deep | 540 Nm |
| U | Flushing port | DIN 3852 M14x1,5; 12 deep (plugged) | 80 Nm |
| M ₁ , M ₂ | Measuring port control chamber press. | DIN 3852 M14x1,5; 12 deep (plugged) | 80 Nm |
| on version 13 | | | |
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/4 in DIN 13 M14x2; 19 deep ²⁾ | |
| B ₁ | Additional port | DIN 3852 M33x2; 18 deep (plugged) | 540 Nm |
| on version 25 | | | |
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/4 in DIN 13 M14x2; 19 deep ²⁾ | |
| B ₁ | 2. pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/4 in (closed with blanking plate) DIN 13 M14x2; 19 deep ²⁾ | |

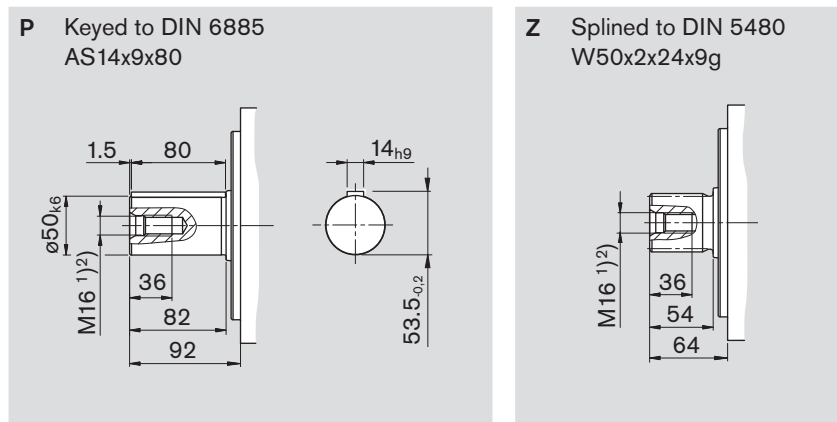
¹⁾ Center bore to DIN 332 (thread to DIN 13)

²⁾ for the max. tightening torques please observe the manufacturer's information on the used fittings and the general information on page 68

³⁾ Caution: metric thread deviates from standard

Dimensions, size 180

Shaft ends



Ports

| | | | | max. tightening torque ²⁾ |
|---------------------------------|--|--|--|--------------------------------------|
| S | Suction port (standard pressure series) Fixing thread | SAE J518 ³⁾ 3 in DIN 13 M16x2; 24 deep ²⁾ | | |
| K ₁ , K ₂ | Flushing port | DIN 3852 M33x2; 18 deep (plugged) | | 540 Nm |
| T | Drain | DIN 3852 M33x2; 18 deep (plugged) | | 540 Nm |
| M _B | Measuring port outlet pressure | DIN 3852 M14x1,5; 12 deep (plugged) | | 80 Nm |
| M _S | Measuring port suction pressure | DIN 3852 M14x1,5; 12 deep (plugged) | | 80 Nm |
| R(L) | Fill + air bleed (case drain port) | DIN 3852 M33x2; 18 deep | | 540 Nm |
| U | Flushing port | DIN 3852 M14x1,5; 12 deep (plugged) | | 80 Nm |
| M ₁ , M ₂ | Measuring port control chamber pressure | DIN 3852 M14x1,5; 12 deep (plugged) | | 80 Nm |

on version 13

| | | | | |
|----------------|---|---|--|--------|
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/4 in deep ²⁾ DIN 13 M14x2; 19 deep ²⁾ | | |
| B ₁ | Additional port | DIN 3852 M33x2; 18 deep (plugged) | | 540 Nm |

on version 25

| | | | | |
|----------------|--|---|--|--|
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/4 in DIN 13 M14x2; 19 deep ²⁾ | | |
| B ₁ | 2. pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/4 in (closed with blanking plate) DIN 13 M14x2; 19 deep ²⁾ | | |

¹⁾ Center bore to DIN 332 (thread to DIN 13)

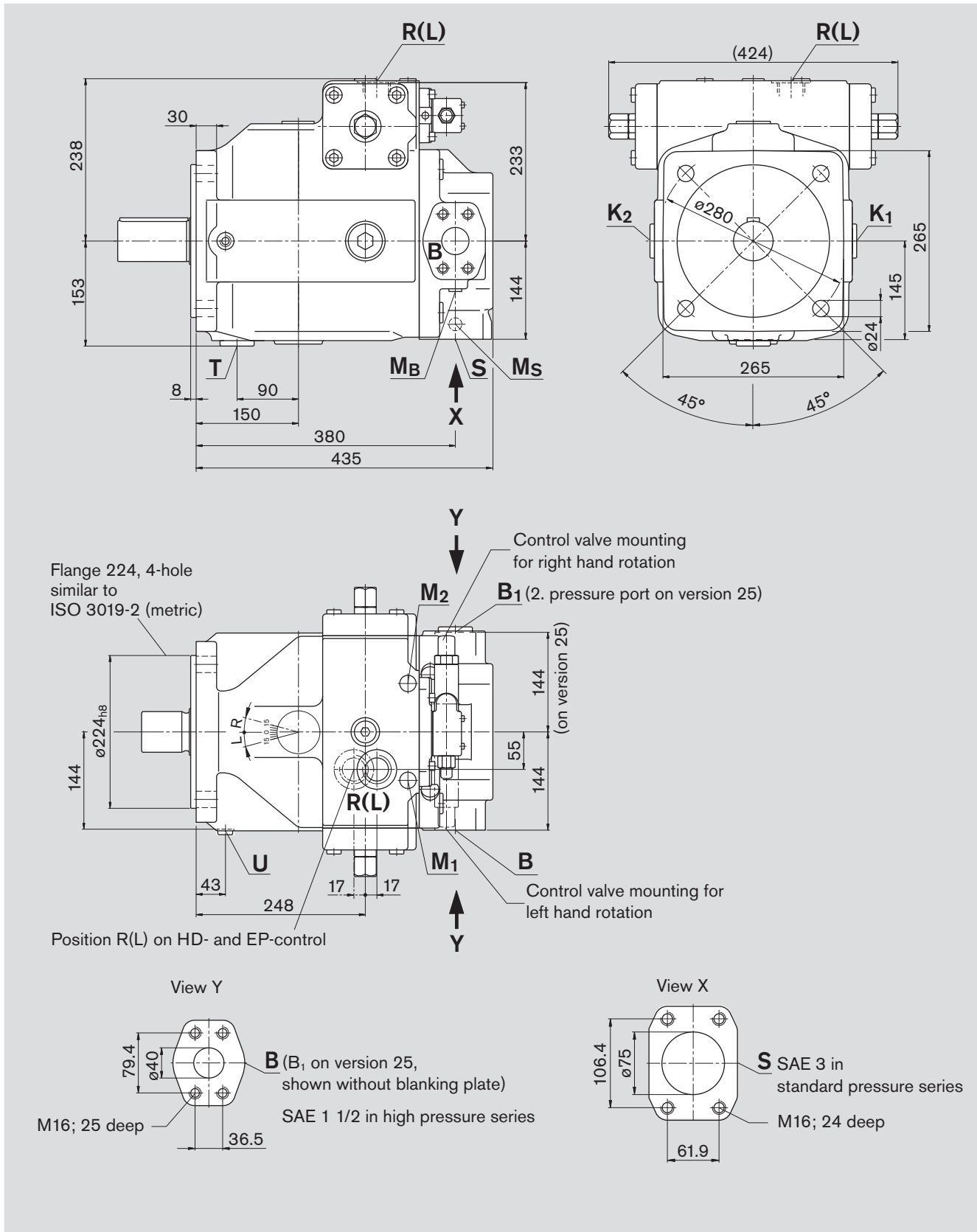
²⁾ for the max. tightening torques please observe the manufacturer's information on the used fittings and the general information on page 68

³⁾ Caution: metric thread deviates from standard

Dimensions, size 250

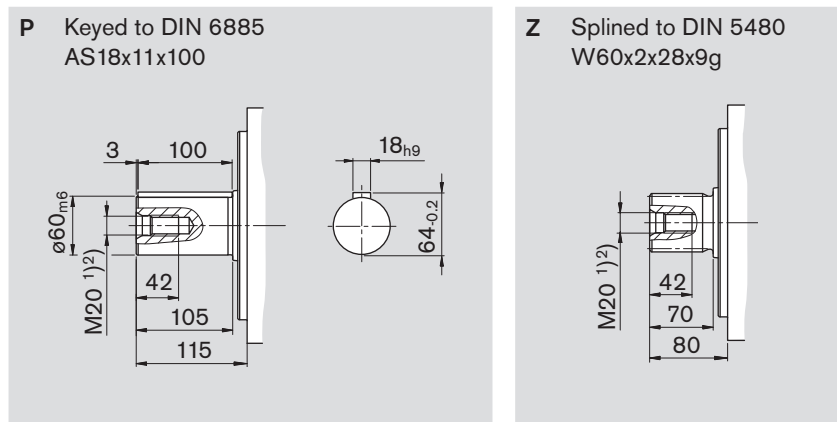
Series 3

(Example: pressure control; for exact dimensions of control devices see separate data sheets)



Dimensions, size 250

Shaft ends



Ports

| | | | max. tightening torque ²⁾ |
|---------------------------------|--|---|--------------------------------------|
| S | Suction port (standard pressure series) Fixing thread | SAE J518 ³⁾ 3 in DIN 13 M16x2; 24 deep ²⁾ | |
| K ₁ , K ₂ | Flushing port | DIN 3852 M42x2; 20 deep (plugged) | 720 Nm |
| T | Drain | DIN 3852 M42x2; 20 deep (plugged) | 720 Nm |
| M _B | Measuring port outlet pressure | DIN 3852 M14x1,5; 12 deep (plugged) | 80 Nm |
| M _S | Measuring port suction pressure | DIN 3852 M14x1,5; 12 deep (plugged) | 80 Nm |
| R(L) | Fill + air bleed (case drain port) | DIN 3852 M42x2; 20 deep | 720 Nm |
| U | Flushing port | DIN 3852 M14x1,5; 12 deep (plugged) | 80 Nm |
| M ₁ , M ₂ | Measuring port control chamber pressure | DIN 3852 M18x1,5; 12 deep (plugged) | 140 Nm |
| on version 13 | | | |
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/2 in DIN 13 M16x2; 25 deep ²⁾ | |
| B ₁ | Additional port | DIN 3852 M42x2; 20 deep (plugged) | 720 Nm |
| on version 25 | | | |
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/2 in DIN 13 M16x2; 25 deep ²⁾ | |
| B ₁ | 2. pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 1 1/2 in (closed with blanking plate) DIN 13 M16x2; 25 deep ²⁾ | |

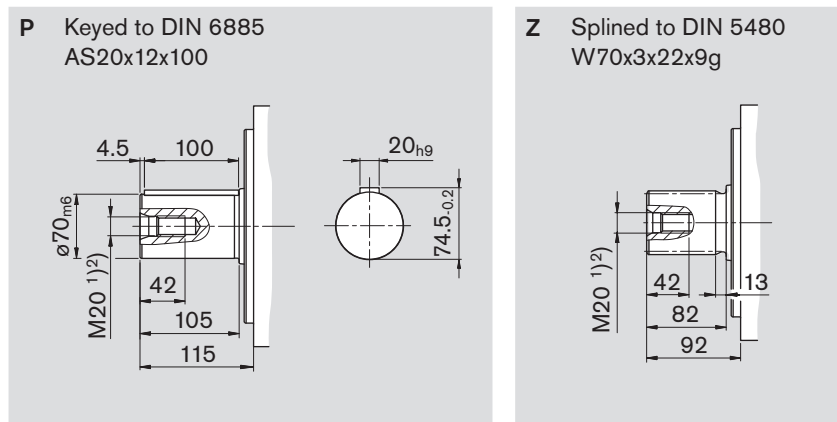
¹⁾ Center bore to DIN 332 (thread to DIN 13)

²⁾ for the max. tightening torques please observe the manufacturer's information on the used fittings and the general information on page 68

³⁾ Caution: thread deviates from standard

Dimensions, size 355

Shaft ends



Ports

| | | | | max. tightening torque ²⁾ |
|---------------------------------|---|------------------------|------------------------------|--------------------------------------|
| S | Suction port (standard pressure series) | SAE J518 ³⁾ | 4 in | |
| | Fixing thread | DIN 13 | M16x2; 21 deep ²⁾ | |
| K ₁ , K ₂ | Flushing port | DIN 3852 | M42x2; 20 deep (plugged) | 720 Nm |
| T | Drain | DIN 3852 | M42x2; 20 deep (plugged) | 720 Nm |
| M _B | Measuring port outlet pressure | DIN 3852 | M14x1,5; 12 deep (plugged) | 80 Nm |
| M _S | Measuring port suction pressure | DIN 3852 | M14x1,5; 12 deep (plugged) | 80 Nm |
| R(L) | Fill + air bleed (case drain port) | DIN 3852 | M42x2; 20 deep | 720 Nm |
| U | Flushing port | DIN 3852 | M18x1,5; 12 deep (plugged) | 140 Nm |
| M ₁ , M ₂ | Measuring port control chamber pressure | DIN 3852 | M18x1,5; 12 deep (plugged) | 140 Nm |

on version 13

| | | | | |
|----------------|--------------------------------------|------------------------|------------------------------|--------|
| B | Pressure port (high pressure series) | SAE J518 ³⁾ | 1 1/2 in | |
| | Fixing thread | DIN 13 | M16x2; 25 deep ²⁾ | |
| B ₁ | Additional port | DIN 3852 | M42x2; 20 deep (plugged) | 720 Nm |

on version 25

| | | | | |
|----------------|---|------------------------|---------------------------------------|--|
| B | Pressure port (high pressure series) | SAE J518 ³⁾ | 1 1/2 in | |
| | Fixing thread | DIN 13 | M16x2; 25 deep ²⁾ | |
| B ₁ | 2. pressure port (high pressure series) | SAE J518 ³⁾ | 1 1/2 in (closed with blanking plate) | |
| | Fixing thread | DIN 13 | M16x2; 25 deep ²⁾ | |

¹⁾ Center bore to DIN 332 (thread to DIN 13)

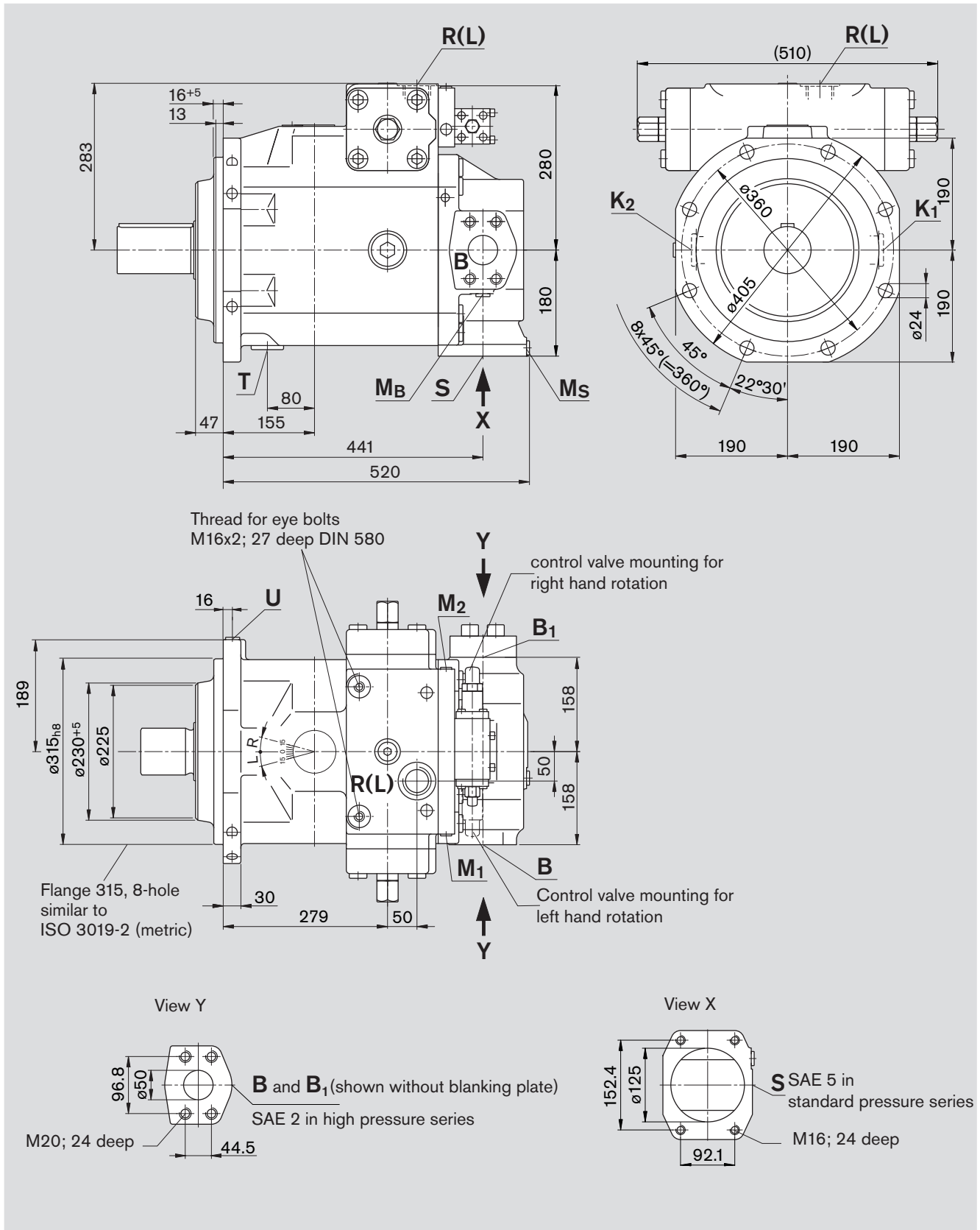
²⁾ for the max. tightening torques please observe the manufacturer's information on the used fittings and the general information on page 68

³⁾ Caution: metric thread deviates from standard

Dimensions, size 500

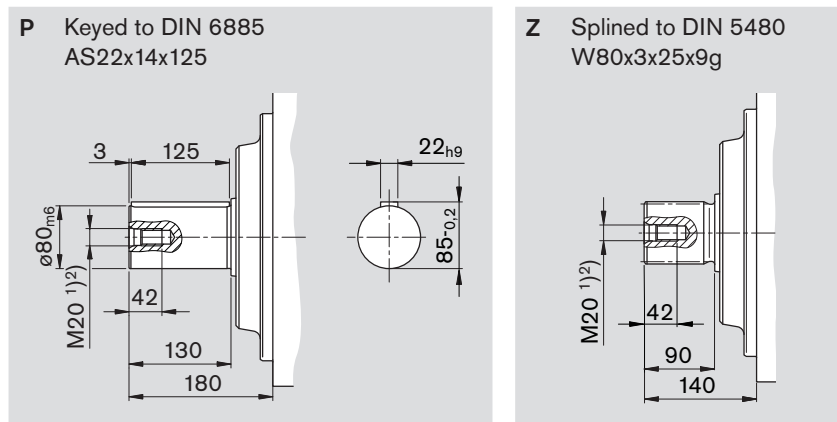
Series 3

(Example: pressure control; for exact dimensions of control devices see separate data sheets)



Dimensions, size 500

Shaft ends



Ports

| | | | max. tightening torque ²⁾ |
|---------------------------------|---|---|--------------------------------------|
| S | Suction port (standard pressure series) Fixing thread | SAE J518 ³⁾ 5 in DIN 13 M16x2; 24 deep ²⁾ | |
| K ₁ , K ₂ | Flushing port | DIN 3852 M48x2; 22 deep (plugged) | 960 Nm |
| T | Drain | DIN 3852 M48x2; 22 deep (plugged) | 960 Nm |
| M _B | Measuring port outlet pressure | DIN 3852 M18x1,5; 12 deep (plugged) | 140 Nm |
| M _S | Measuring port suction pressure | DIN 3852 M18x1,5; 12 deep (plugged) | 140 Nm |
| R(L) | Fill + air bleed (case drain port) | DIN 3852 M48x2; 22 deep | 960 Nm |
| U | Flushing port | DIN 3852 M18x1,5; 12 deep (plugged) | 140 Nm |
| M ₁ , M ₂ | Measuring port control chamber pressure or dependent on control device | DIN 3852 M18x1,5; 12 deep (plugged) DIN 3852 M14x1,5; 12 deep (plugged) | 140 Nm 80 Nm |
| B | Pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 2 in DIN 13 M20x2,5; 24 deep ²⁾ | |
| B ₁ | 2. pressure port (high pressure series) Fixing thread | SAE J518 ³⁾ 2 in (closed with blanking plate) DIN 13 M20x2,5; 24 deep ²⁾ | |

¹⁾ Center bore to DIN 332 (thread to DIN 13)

²⁾ for the max. tightening torques please observe the manufacturer's information on the used fittings and the general information on page 68

³⁾ Caution: metric thread deviates from standard

Through drive

The through drive execution is designated by the code K/U 31...99.

We recommend, that no more than three pumps be coupled together.

Permissible input and through drive torques

| Size | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 | | |
|---|----------------------------|----------------|----|-----|-----|------|------|------|------|------|------|-------|
| Splined shaft | | | | | | | | | | | | |
| Max. perm. total input torque at shaft of pump 1 (Pump 1 + pump 2) | | $T_{tot\ max}$ | Nm | 446 | 790 | 1392 | 2004 | 2782 | 3952 | 5566 | 8348 | 11130 |
| A | Perm.through drive torque | $T_{D1\ max}$ | Nm | 223 | 395 | 696 | 1002 | 1391 | 1976 | 2783 | 4174 | 5565 |
| | | $T_{D2\ max}$ | Nm | 223 | 395 | 696 | 1002 | 1391 | 1976 | 2783 | 4174 | 5565 |
| B | Perm. through drive torque | $T_{D1\ max}$ | Nm | 223 | 395 | 696 | 1002 | 1391 | 1976 | 2783 | 4174 | 5565 |
| | | $T_{D2\ max}$ | Nm | 223 | 395 | 696 | 1002 | 1391 | 1976 | 2783 | 4174 | 5565 |
| Keyed shaft | | | | | | | | | | | | |
| Max. perm. total input torque at shaft of pump 1 (Pump 1 + pump 2) | | $T_{tot\ max}$ | Nm | 380 | 700 | 1392 | 1400 | 2300 | 3557 | 5200 | 7513 | 9444 |
| A | Perm. through drive torque | $T_{D1\ max}$ | Nm | 223 | 395 | 696 | 1002 | 1391 | 1976 | 2783 | 4174 | 5565 |
| | | $T_{D2\ max}$ | Nm | 157 | 305 | 696 | 398 | 909 | 1581 | 2417 | 3339 | 3879 |
| B | Perm. through drive torque | $T_{D1\ max}$ | Nm | 157 | 305 | 696 | 398 | 909 | 1581 | 2417 | 3339 | 3879 |
| | | $T_{D2\ max}$ | Nm | 223 | 395 | 696 | 1002 | 1391 | 1976 | 2783 | 4174 | 5565 |

Distribution of torques



Single pump with through drive

If no further pumps are factory-mounted the simple type code is sufficient.

included in this case are:

on all through drives except K/U 99

shaft coupler, mounting screws, seal and if required an adapter flange

on K/U 99

with through drive shaft, without shaft coupler, without adapter flange; unit is closed with pressure tight cover.

Universal through drive

On pump sizes 125...355 all through drives are supplied as universal through drives „U“ .

These have the advantage, that they can be adapted later on.

Simply by exchanging the adapter flange and the shaft coupler it is possible to convert the through drive option.

Combination pumps

Independent circuits are available for the user when further pumps are built on.

1. If the combination consists of **2 Rexroth axial piston pumps**, and if this must be **factory mounted**, the two individual type codes must be joined by a „+“ .

Ordering example:

A4VSO 125 DR / 30 R – PPB13K33 + A4VSO 71 DR / 10 R – PZB13N00

2. If a **gear** or a radial piston pump must be **factory mounted** as the second pump please consult us.

Overview of A4VSO through drive options

| Through drive - A4VSO | | | Mounting option 2. pump | | | | | Through drive |
|--------------------------------------|---|--------------|-------------------------|--------------------|---|-----------------------------|----------------------------------|--------------------|
| Flange | Coupler for splined shaft ⁶⁾ | Code | A4VSO/G size (shaft) | A4CSG size (shaft) | A10V(S)O/31(2) ⁵⁾ size (shaft) | A10V(S)O/52(3) size (shaft) | External/internal gear pump | available for size |
| Flange ISO 3019-2 (metric) | | | | | | | | |
| 80, 2-hole | 19-4 (3/4in, 11T) ³⁾ | K/UB2 | – | – | 18 (S)/31 | 10 (S) | – | 71 |
| 100, 2-hole | 22-4 (7/8in, 13T) ³⁾ | K/UB3 | – | – | 28 (S)/31 | – | – | 40...180 |
| | 25-4 (1in, 15T) ³⁾ | K/UB4 | – | – | 45 (S)/31 | – | – | 40...500 |
| 125, 2-hole | 32-4 (1 1/4in, 14T) ³⁾ | K/UB5 | – | – | 71 (S)/31 | – | – | 71...355 |
| | 38-4(1 1/2in, 17T) ³⁾ | UB6 | – | – | 100 (S)/31 | – | – | in preparation |
| 125, 4-hole | W 32x2x14x9g ²⁾ | K/U31 | 40 (Z) | – | – | – | – | 40...500 |
| 140, 4-hole | W 40x2x18x9g ²⁾ | K/U33 | 71 (Z) | – | – | – | – | 71...750 |
| 160, 4-hole | W 50x2x24x9g ²⁾ | K/U34 | 125 (Z) | – | – | – | – | 125...750 |
| | | | 180 (Z) | – | – | – | – | 180...750 |
| | 32-4 (1 1/4in, 14T) ³⁾ | UB8 | – | – | 71 (S)/32 | – | – | 250 |
| 180, 4-hole | 44-4 (1 3/4in, 13T) ³⁾ | K/UB7 | – | – | 140 (S)/31/32 | – | – | 180... 500 |
| | 38-4 (1 1/2in, 17T) ³⁾ | UB9 | – | – | 100 (S)/32 | – | – | in preparation |
| 224, 4-hole | W 60x2x28x9g ²⁾ | K/U35 | 250 (Z) | 250 (Z) | – | – | – | 250...750 |
| | W 70x3x22x9g ²⁾ | K/U77 | 355 (Z) | 355 (Z) | – | – | – | 355, 500 |
| 315, 8-hole | W 80x3x25x9g ²⁾ | K43 | 500 (Z) | 500 (Z) | – | – | – | 500, 750 |
| 400, 8-hole | W 90x3x28x9g ²⁾ | K76 | 750 (Z) | 750 (Z) | – | – | – | 750 |
| | W 100x3x32x9g ²⁾ | K88 | 1000 (Z) | – | – | – | – | 1000 |
| Flange SAE J 744 (ISO 3019-1) | | | | | | | | |
| 82-2 (A) ¹⁾ | 16-4 (5/8in, 9T) ³⁾ | K/U01 | – | – | – | – | AZ-PF-1X-004...022 ⁴⁾ | 40...750 |
| | 19-4 (3/4in, 11T) ³⁾ | K/U52 | – | – | 18 (S)/31 | 10, 18 (S) | – | 40 u. 71 |
| 101-2 (B) ¹⁾ | 22-4 (7/8in, 13T) ³⁾ | K/U68 | – | – | 28 (S)/31 | 28 (S) | AZ-PN-1X-020...032 ⁴⁾ | 40...500 |
| | 25-4 (1in, 15T) ³⁾ | K/U04 | – | – | 45 (S)/31 | 45 (S) | PGH4 | 40...500 |
| 127-2 (C) ¹⁾ | 32-4 (1 1/4in, 14T) ³⁾ | K/U07 | – | – | 71 (S)/31 | – | – | 71...500 |
| | 38-4 (1 1/2in, 17T) ³⁾ | K/U24 | – | – | 100 (S)/31 | 85 (S) | PGH5 | 125...500 |
| 152-4 (D) ¹⁾ | 44-4 (1 3/4in, 13T) ³⁾ | K/U17 | – | – | 140 (S)/31 | – | – | 180...500 |
| Dia 63-4, metr. | Keyed dia 25 | K/U57 | – | – | – | – | R4 | 40 u. 71 |

¹⁾ 2 = 2-hole, 4 = 4-hole

²⁾ to DIN 5480

³⁾ Splined shafts acc. to SAEJ744 OCT83

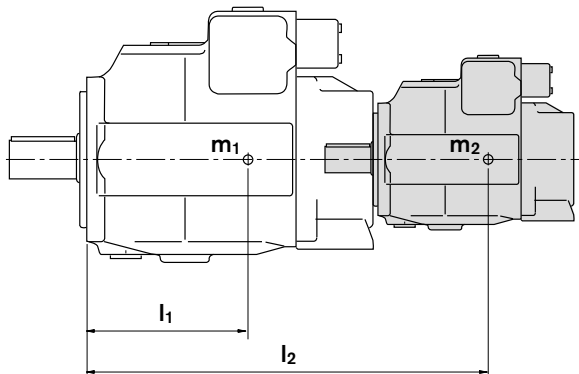
⁴⁾ Rexroth recommends special executions of the gear pumps. Please consult us.

⁵⁾ If a through drive for an A10V(S)O with R-shaft is desired, please consult us.

⁶⁾ Keyed shaft on through drive code K/U57

Permissible mass moment of inertia

referred to the mounting flange of the main pump



m_1, m_2 [kg] Weight of pump

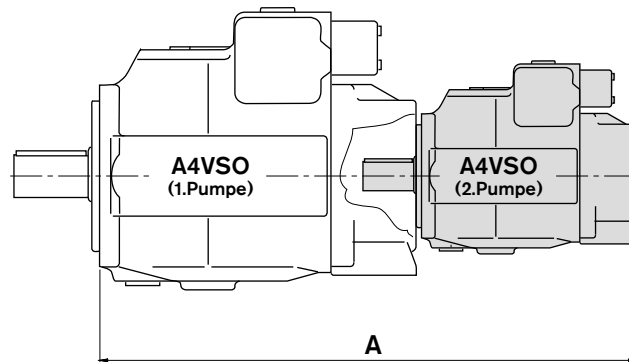
l_1, l_2 [mm] Distance center of gravity

$$T_m = m_1 \cdot l_1 \cdot \frac{1}{102} + m_2 \cdot l_2 \cdot \frac{1}{102} \text{ [Nm]}$$

| Size | | 40 | 71 | 125 | 180 | 250 | 355 | 500 | 750 | 1000 |
|---|--------------------------|------|------|------|------|------|------|-------|-------|-------|
| Perm. mass moment of inertia | $T_{m \text{ perm.}}$ Nm | 1800 | 2000 | 4200 | 4200 | 9300 | 9300 | 15600 | 19500 | 19500 |
| Perm. mass moment at dynam. acceleration of $10 \text{ g} \hat{=} 98,1 \text{ m/sec}^2$ | $T_{m \text{ perm.}}$ Nm | 180 | 200 | 420 | 420 | 930 | 930 | 1560 | 1950 | 1950 |
| Weight (A4VSO...DR) | m kg | 39 | 53 | 88 | 102 | 184 | 207 | 320 | 460 | 605 |
| Distance center of gravity | l_1 mm | 120 | 140 | 170 | 180 | 210 | 220 | 230 | 260 | 290 |

Dimensions combination pumps

A4VSO + A4VSO



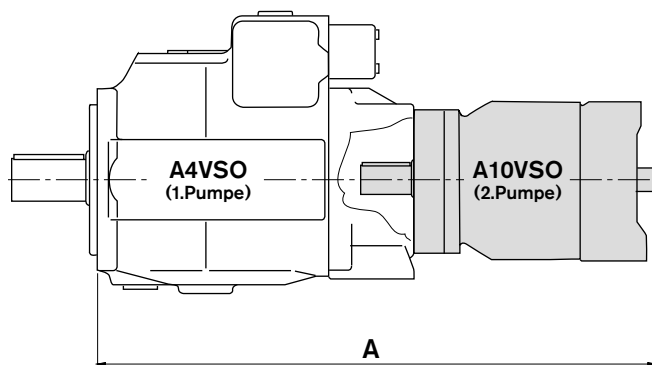
Overall length A

| A4VSO (1. pump) | A4VSO..DR..N00 (2. pump) | | | | | | | | |
|--------------------|--------------------------|---------|----------|----------|----------|----------|----------|----------|-----------|
| | Size 40 | Size 71 | Size 125 | Size 180 | Size 250 | Size 355 | Size 500 | size 750 | Size 1000 |
| Size 40 | 554 | – | – | – | – | – | – | – | – |
| Size 71 | 582 | 611 | – | – | – | – | – | – | – |
| Size 125 | 635 | 664 | 724 | – | – | – | – | – | – |
| Size 180 | 659 | 688 | 748 | 768 | – | – | – | – | – |
| Size 250 | 719 | 748 | 808 | 828 | 904 | – | – | – | – |
| Size 355 | 748 | 777 | 837 | 857 | 933 | 962 | – | – | – |
| Size 500 | 771 | 800 | 860 | 880 | 976 | 1005 | 1110 | – | – |
| Size 750 | 821 | 850 | 910 | 930 | 1026 | 1055 | 1160 | 1214 | – |
| Size 1000 | * | * | * | * | * | * | * | * | 1368 |

* on request

Dimensions combination pumps

A4VSO + A10VSO



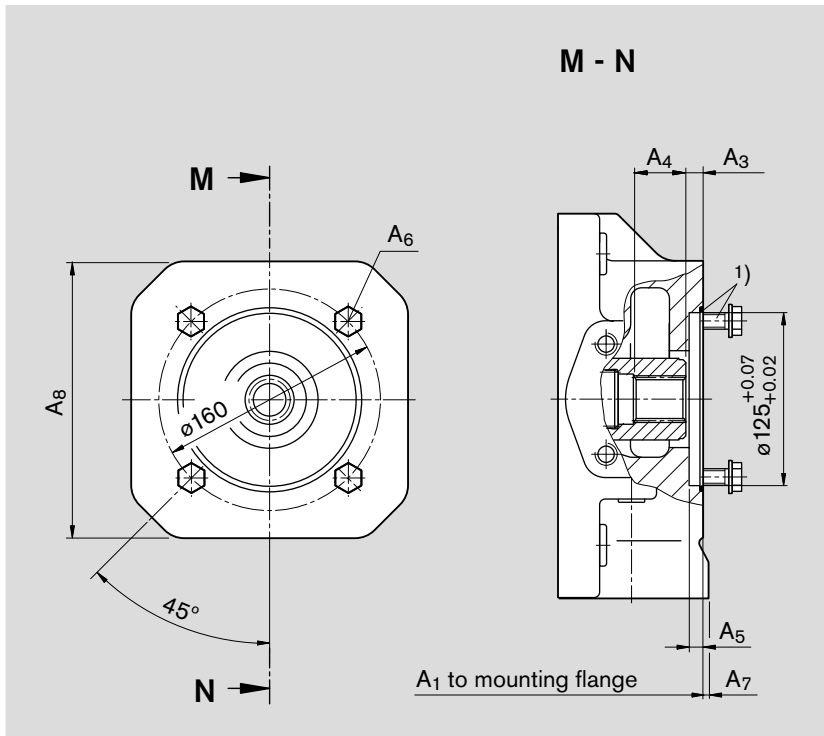
Overall length A

| A4VSO (1. pump) | A10VSO.../31 (2. pump) | | | | | |
|--------------------|------------------------|---------|---------|---------|----------|----------|
| | Size 18 | Size 28 | Size 45 | Size 71 | Size 100 | Size 140 |
| Size 40 | 458 | 496 | 514 | – | – | – |
| Size 71 | 486 | 497 | 540 | 580 | – | – |
| Size 125 | 564 | 575 | 593 | 628 | 698 | – |
| Size 180 | 588 | 599 | 617 | 652 | 722 | 744 |
| Size 250 | 648 | 659 | 677 | 712 | 782 | 791 |
| Size 355 | * | * | 706 | 741 | * | 820 |
| Size 500 | 700 | 711 | 729 | 764 | 857 | 868 |
| Size 750 | 750 | 761 | 779 | 812 | 907 | 917 |
| Size 1000 | * | * | * | * | * | * |

* on request

Dimensions through drives

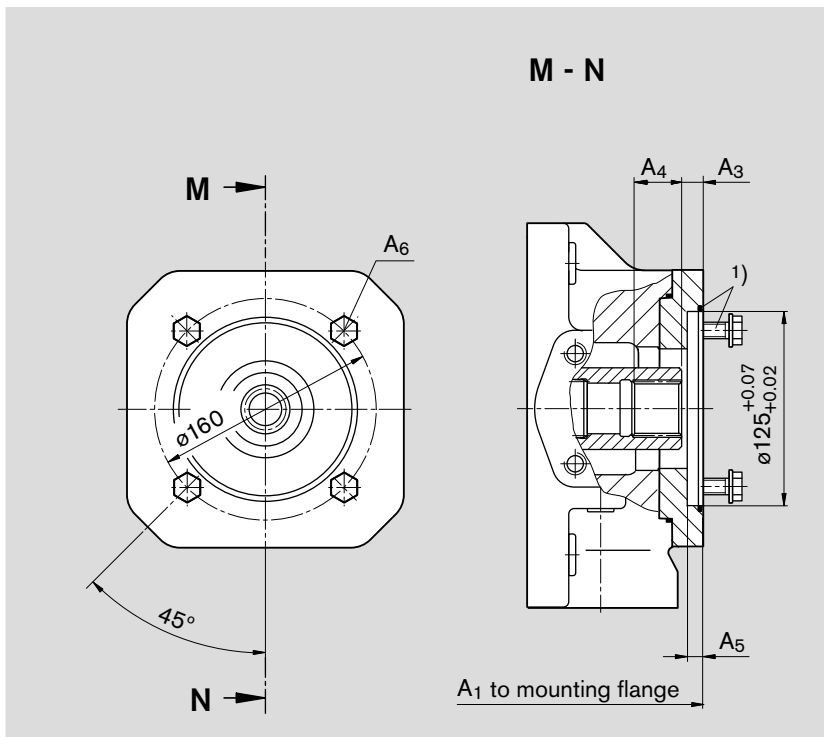
K31 Flange ISO 3019-2 125, 4-hole
 Shaft coupler to DIN 5480 N32x2x14x8H
 for mounting an A4VSO/G 40 splined shaft



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | 288 | 12,5 | 40 | 9 | M12 |
| 71 | 316 | 12,5 | 33,6 | 9 | M12 |
| 500 | 505 | 12,5 | 38,5 | 9 | M12 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

| Size | A ₇ | A ₈ |
|------|----------------|----------------|
| 40 | - | - |
| 71 | - | - |
| 500 | 15 | 240 |
| 750 | in preparation | |
| 1000 | in preparation | |

U31 Flange ISO 3019-2 125, 4-hole
 Shaft coupler to DIN 5480 N32x2x14x8H
 for mounting an A4VSO/G 40 splined shaft

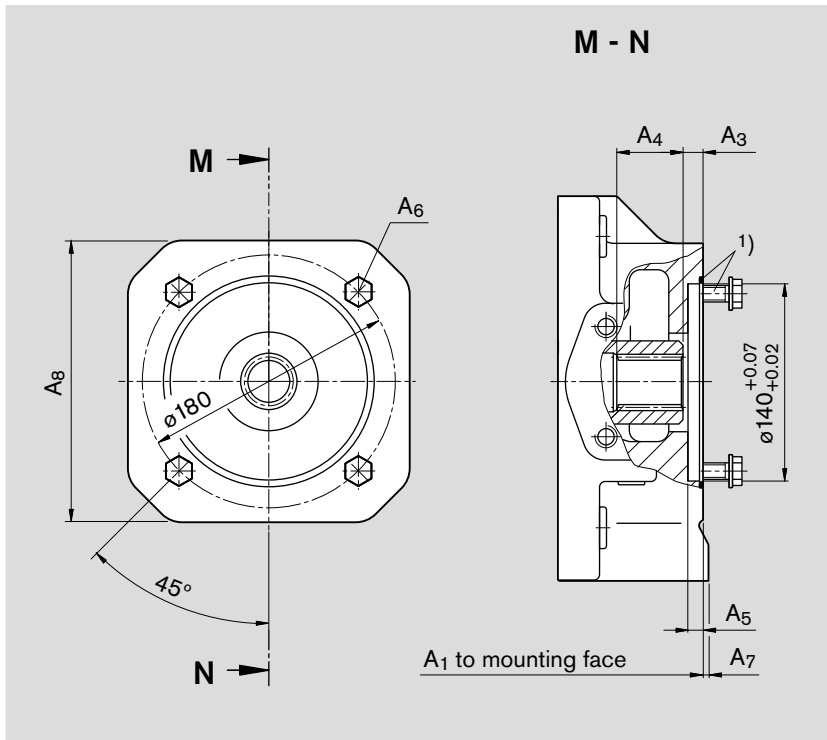


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 12,5 | 35,6 | 9 | M12 |
| 180 | 393 | 12,5 | 35,6 | 9 | M12 |
| 250 | 453 | 12,5 | 38 | 9 | M12 |
| 355 | 482 | 12,5 | 38 | 9 | M12 |

¹⁾ Mounting screws and O-ring seal are included with supply

Dimensions through drives

K33 Flange ISO 3019-2 140, 4-hole
 Shaft coupler to DIN 5480 N40x2x18x8H
 for mounting an A4VSO/G 71 splined shaft

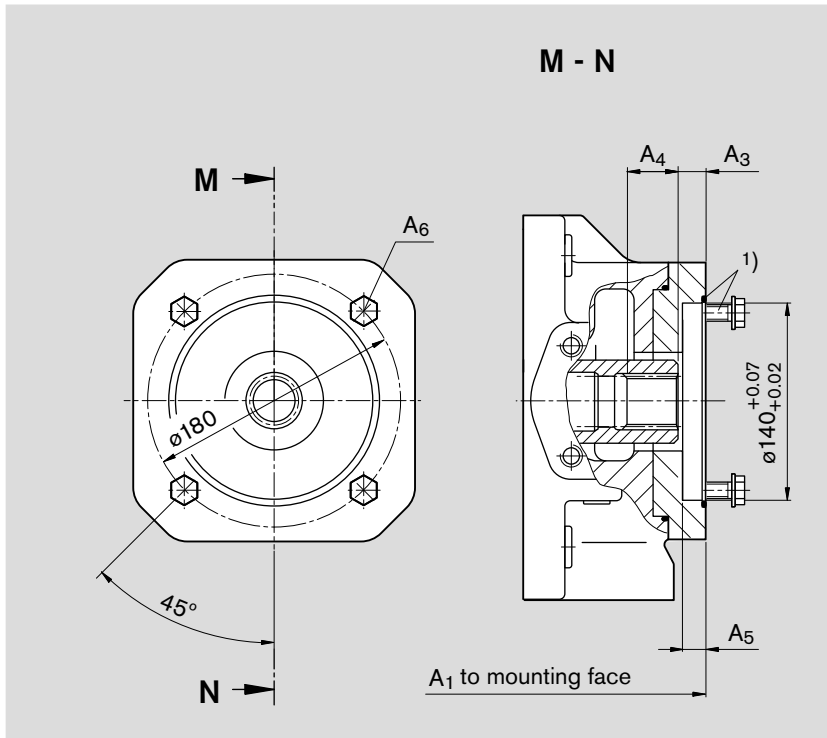


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|-------|----------------|----------------|----------------|----------------|------------------------------|
| 71 | 316 | 11,5 | 42,8 | 9 | M12 |
| 500 | 505 | 12,5 | 57 | 9 | M12 |
| 750 | 555 | 12,5 | 44,5 | 9 | M12 |
| 750 * | in preparation | | | | |
| 1000 | in preparation | | | | |

| Size | A ₇ | A ₈ |
|-------|----------------|----------------|
| 71 | - | - |
| 500 | 15 | 240 |
| 750 | - | - |
| 750 * | in preparation | |
| 1000 | in preparation | |

* with boost pump

U33 Flange ISO 3019-2 140, 4-hole
 Shaft coupler to DIN 5480 N40x2x18x8H
 for mounting an A4VSO/G 71 splined shaft

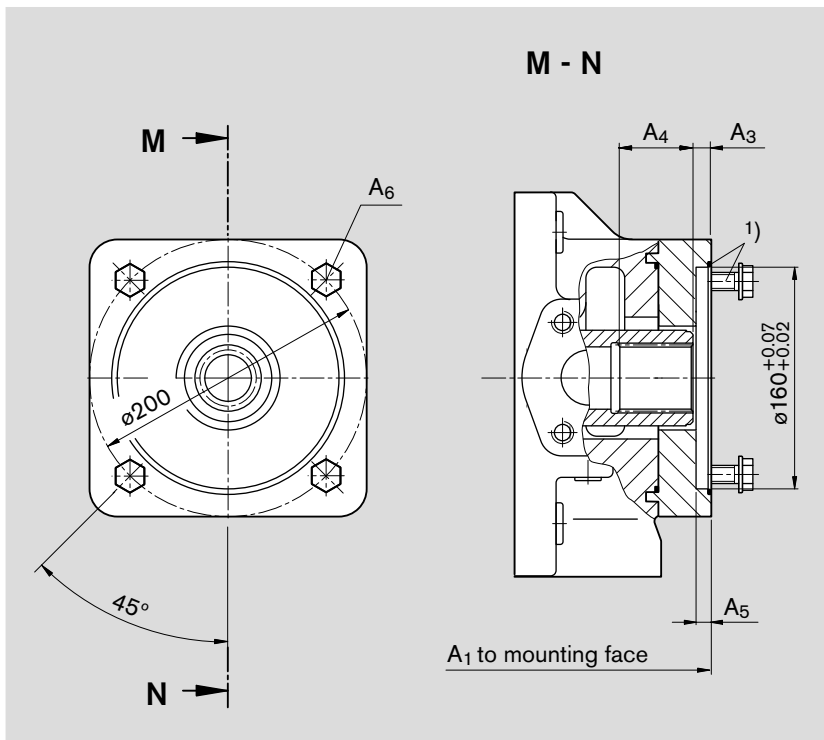


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 12,5 | 43,8 | 9 | M12 |
| 180 | 393 | 12,5 | 43,8 | 9 | M12 |
| 250 | 453 | 12,5 | 48,9 | 9 | M12 |
| 355 | 482 | 12,5 | 48 | 9 | M12 |

¹⁾ Mounting screws and O-ring seal are included with supply

Dimensions through drives

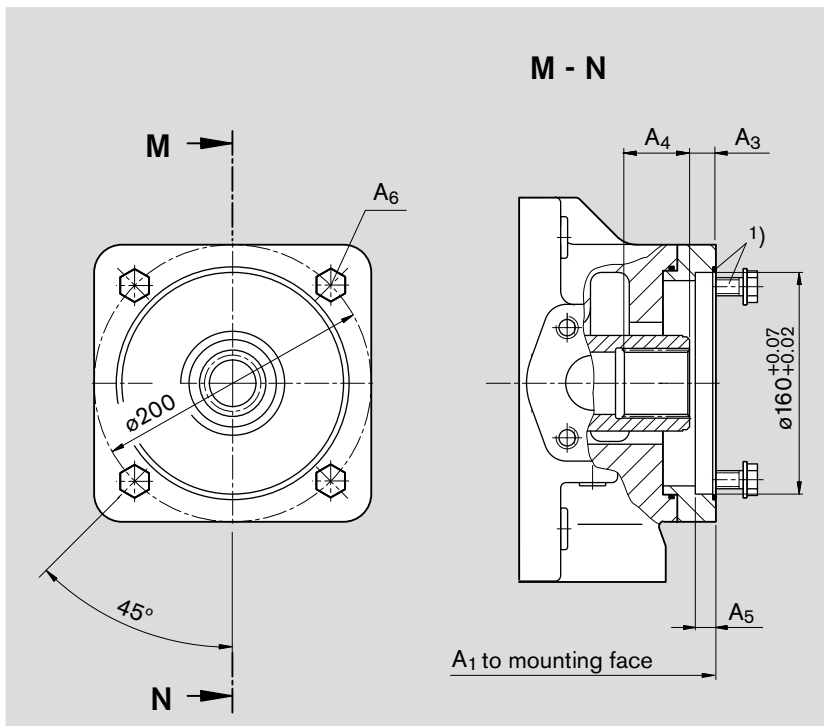
K34 Flange ISO 3019-2 160, 4-hole
Shaft coupler to DIN 5480 N50x2x24x8H
 for mounting an A4VSO/G 125 or 180 splined shaft



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|-------|----------------|----------------|----------------|----------------|------------------------------|
| 500 | 505 | 13,5 | 54,5 | 9 | M16 |
| 750 | 555 | 12,5 | 55,5 | 9 | M16 |
| 750 * | in preparation | | | | |
| 1000 | in preparation | | | | |

* with boost pump

U34 Flange ISO 3019-2 160, 4-hole
Shaft coupler to DIN 5480 N50x2x24x8H
 for mounting an A4VSO/G 125 or 180 splined shaft

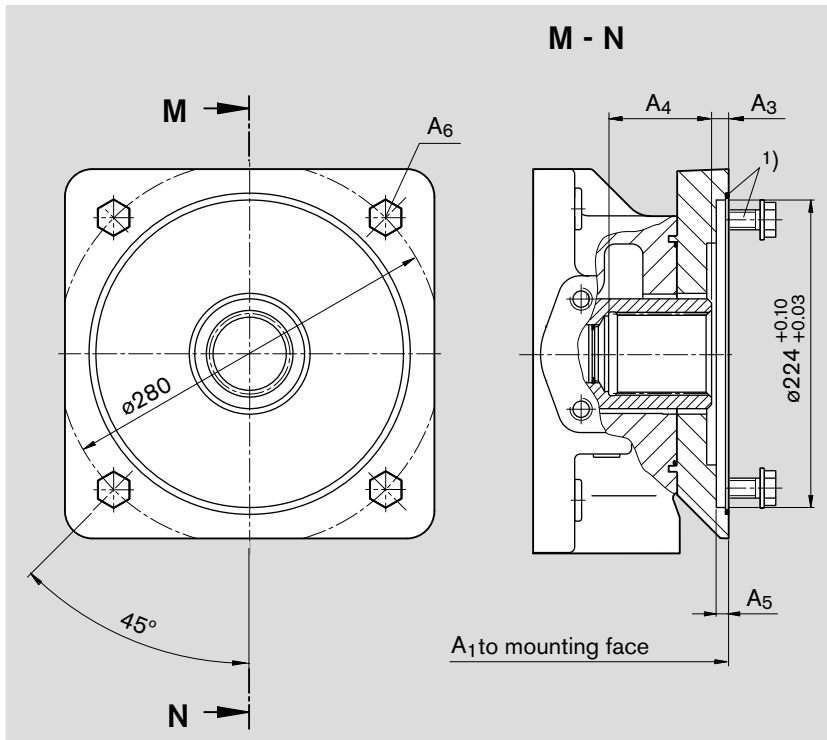


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 12,5 | 51,6 | 9 | M16 |
| 180 | 393 | 12,5 | 51,6 | 9 | M16 |
| 250 | 453 | 12,5 | 54 | 9 | M16 |
| 355 | 482 | 12,5 | 54 | 9 | M16 |

¹⁾ Mounting screws and O-ring seal are included with supply

Dimensions through drives

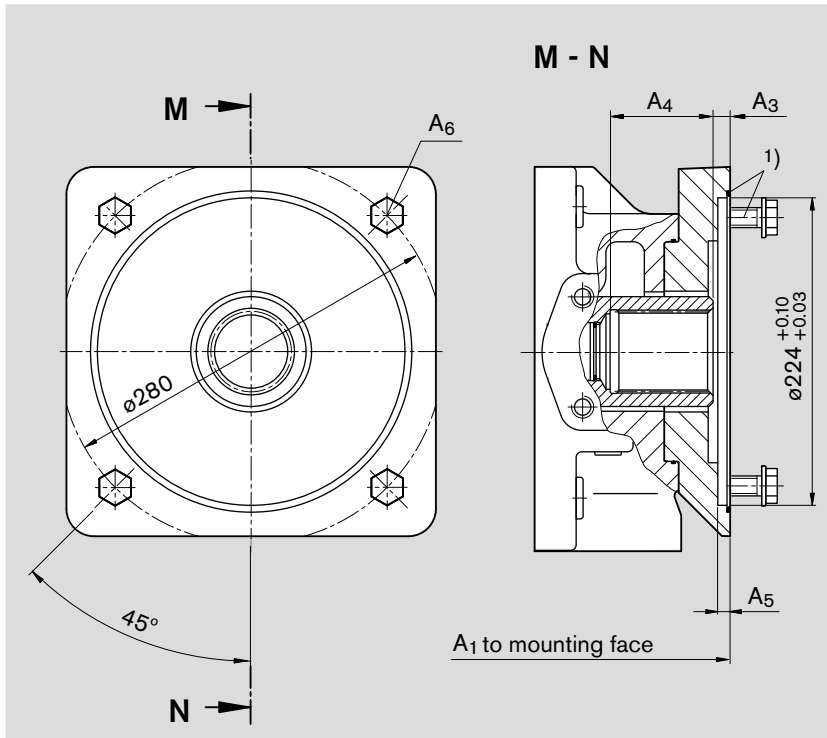
K35 Flange ISO 3019-2 224, 4-hole
Shaft coupler to DIN 5480 N60x2x28x8H
 for mounting an A4VSO/G or A4CSG 250 splined shaft



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 500 | 541 | 12,5 | 74 | 9 | M20 |
| 750 | 591 | 12,5 | 74 | 9 | M20 |
| 750* | in preparation | | | | |
| 1000 | in preparation | | | | |

* with boost pump

U35 Flange ISO 3019-2 224, 4-hole
Shaft coupler to DIN 5480 N60x2x28x8H
 for mounting an A4VSO/G or A4CSG 250 splined shaft

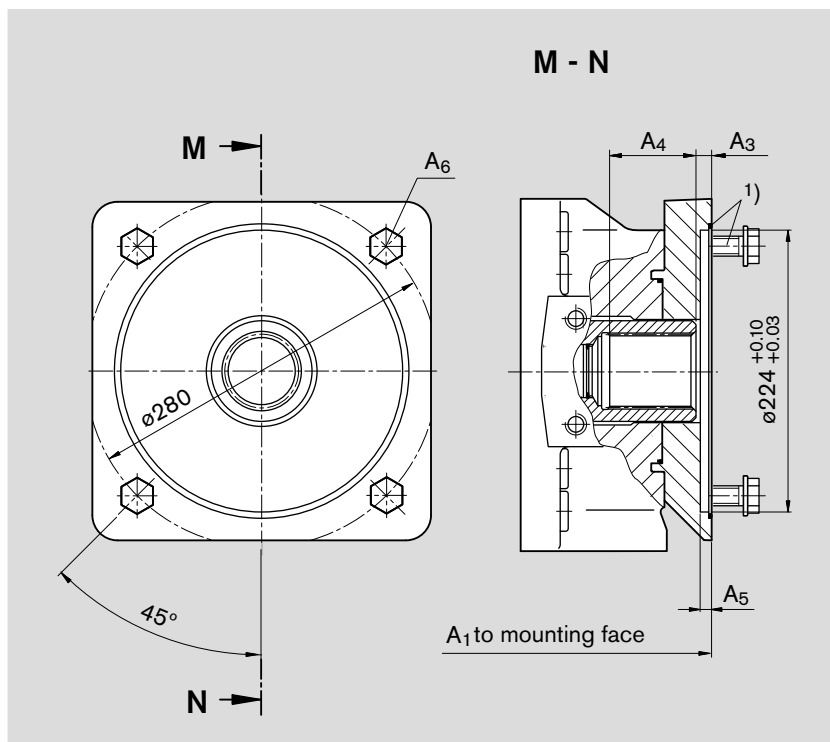


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 250 | 469 | 12,5 | 75 | 9 | M20 |
| 355 | 498 | 12,5 | 75 | 9 | M20 |

¹⁾ Mounting screws and O-ring seal are included with supply

Dimensions through drives

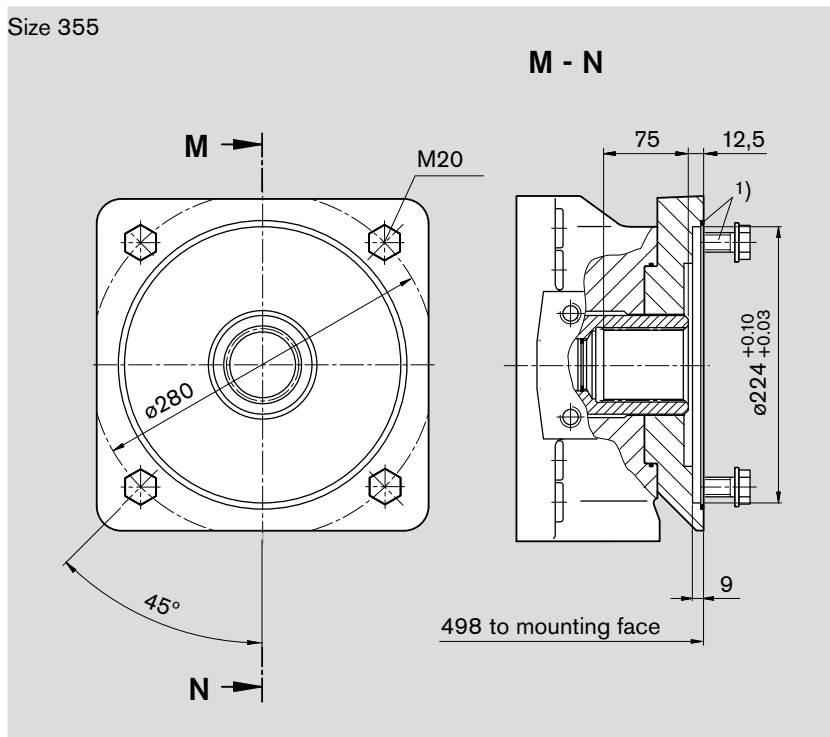
K77 Flange ISO 3019-2 224, 4-hole
Shaft coupler to DIN 5480 N70x3x22x8H
 for mounting an A4VSO/G or A4CSG 355 splined shaft



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 500 | 541 | 12,5 | 76 | 9 | M20 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

U77 Flange ISO 3019-2 224, 4-hole
Shaft coupler to DIN 5480 N70x3x22x8H
 for mounting an A4VSO/G or A4CSG 355 splined shaft

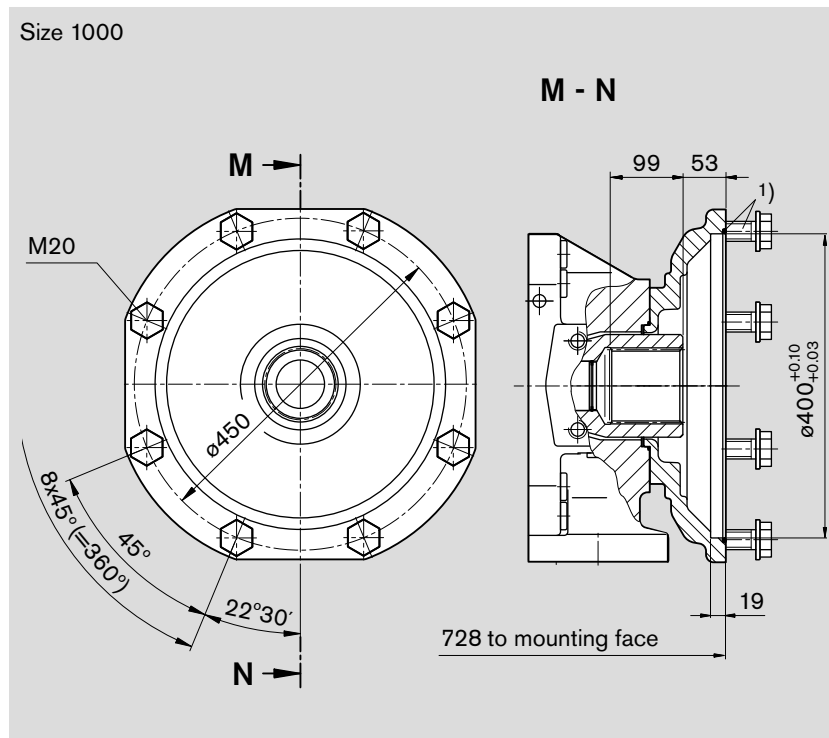
Size 355



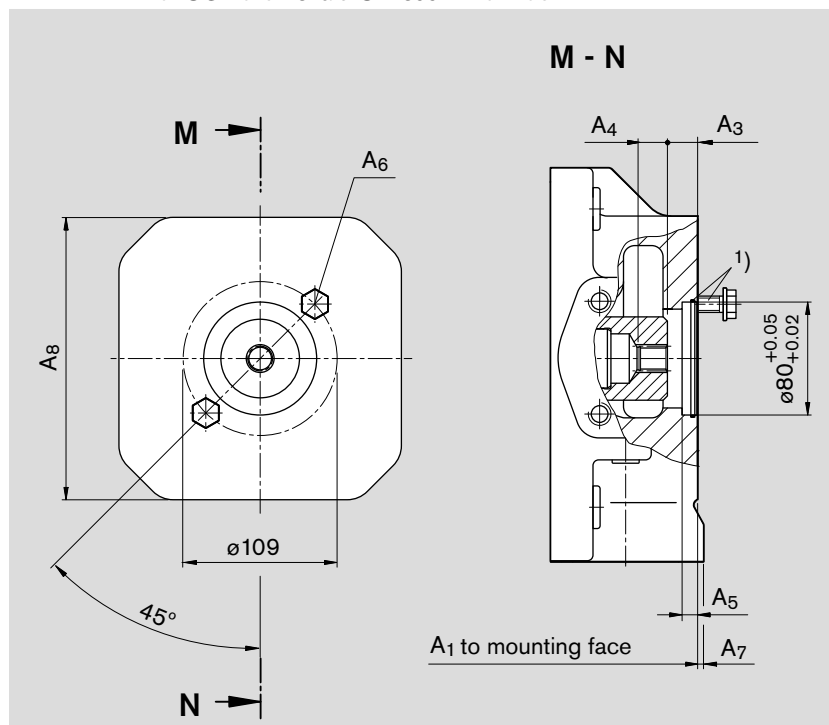
1) Mounting screws and O-ring seal are included with supply

Dimensions through drives

K88 Flange ISO 3019-2 400, 8-hole
Shaft coupler to DIN 5480 N100x3x32x8H
 for mounting an A4VSO/G 1000 splined shaft



KB2 Flange ISO 3019-2 80, 2-hole
Shaft coupler for splined shaft, 19-4 SAE A-B, 3/4 in, 16/32 DP; 11T³⁾
 for mounting an A10VSO 18/31 shaft S – see RE 92712 or an
 A10VSO 10/52 shaft S – see RE 92703



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | in preparation | | | | |
| 71 | 291 | 21,5 | 19 | 10 | M10 |
| 500 | in preparation | | | | |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

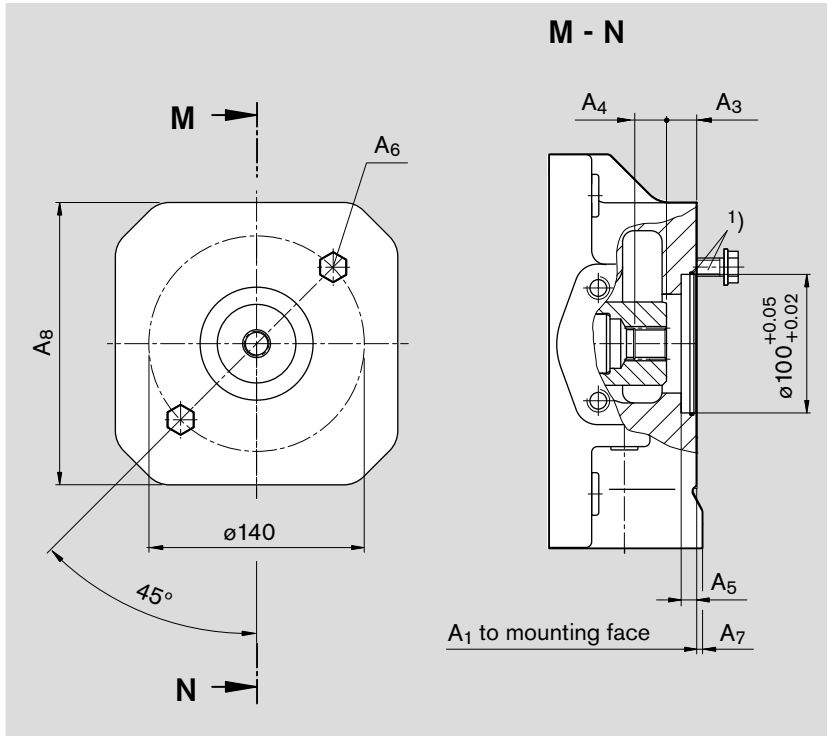
| Size | A ₇ | A ₈ |
|------|----------------|----------------|
| 40 | in preparation | |
| 71 | 2 | 140 |
| 500 | in preparation | |
| 750 | in preparation | |
| 1000 | in preparation | |

Sizes 125...355 with U-through drive in preparation

¹⁾ Mounting screws and O-ring seal are included with supply

Dimensions through drives

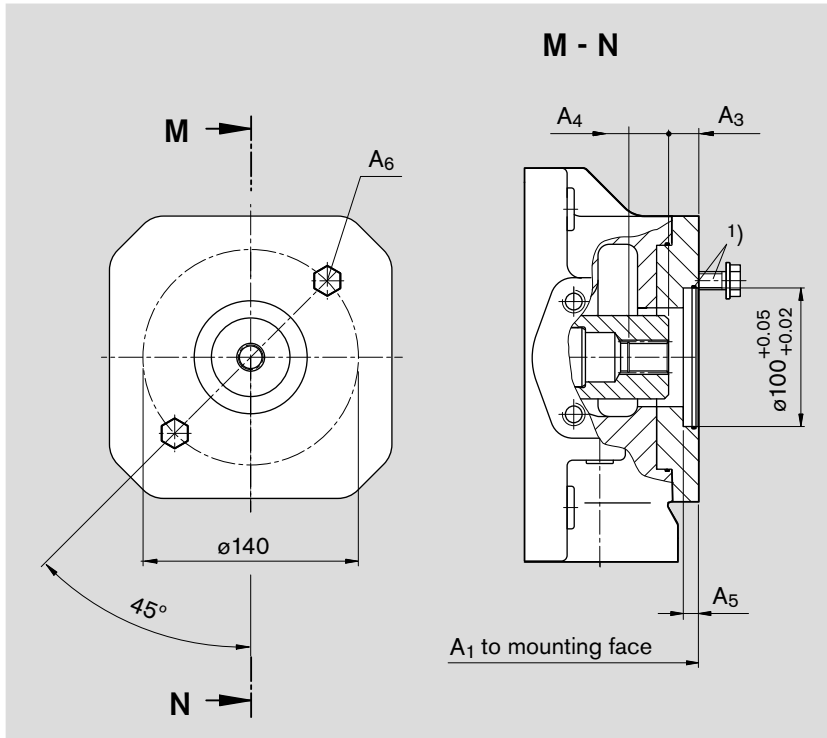
KB3 Flange ISO 3019-2 100, 2-hole
Shaft coupler for splined shaft, 22-4 SAE B, 7/8 in, 16/32 DP; 13T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | 290 | 20,3 | 23 | 10 | M12 |
| 71 | 291 | 20,4 | 23 | 10 | M12 |
| 500 | in preparation | | | | |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

| Size | A ₇ | A ₈ |
|------|----------------|----------------|
| 40 | - | - |
| 71 | 2 | 140 |
| 500 | in preparation | |
| 750 | in preparation | |
| 1000 | in preparation | |

UB3 Flange ISO 3019-2 100, 2-hole
Shaft coupler for splined shaft, 22-4 SAE B, 7/8 in, 16/32 DP; 13T³⁾
 for mounting an A10VSO 28/31 splined shaft S (see RE 92711)

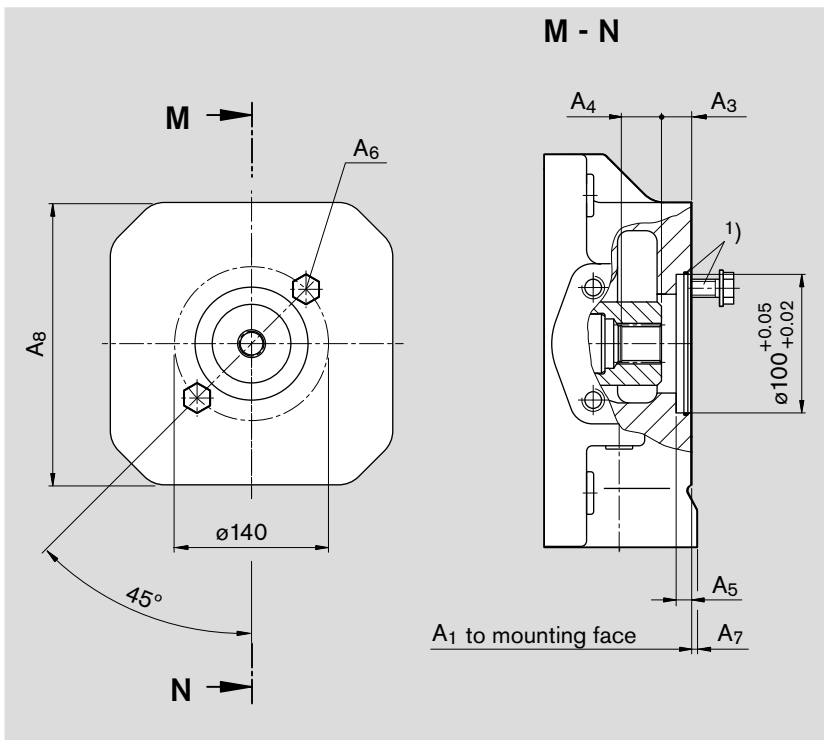


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 20,5 | 24,9 | 10 | M12 |
| 180 | 393 | 20,5 | 24,9 | 10 | M12 |
| 250 | in preparation | | | | |
| 355 | in preparation | | | | |

¹⁾ 2 mounting screws and O-ring seal are included with supply

Dimensions through drives

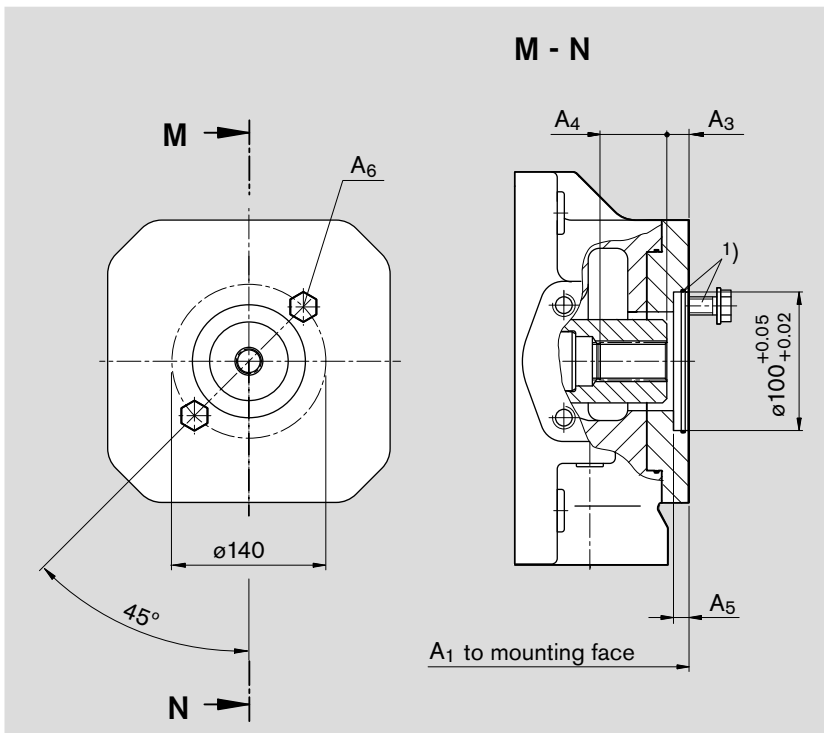
KB4 Flange ISO 3019-2 100, 2-hole
Shaft coupler for splined shaft, 25-4 SAE B-B, 1 in, 16/32 DP; 15T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | 290 | 20,8 | 27,5 | 10 | M12 |
| 71 | 316 | 20,8 | 27,5 | 8 | M12 |
| 500 | 505 | 20,4 | 28,9 | 10 | M12 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

| Size | A ₇ | A ₈ |
|------|----------------|----------------|
| 40 | - | - |
| 71 | - | - |
| 500 | 15 | 240 |
| 750 | in preparation | |
| 1000 | in preparation | |

UB4 Flange ISO 3019-2 100, 2-hole
Shaft coupler for splined shaft, 25-4 SAE B-B, 1 in, 16/32 DP; 15T³⁾
 for mounting an A10VSO 45/31 splined shaft S – see RE 92711

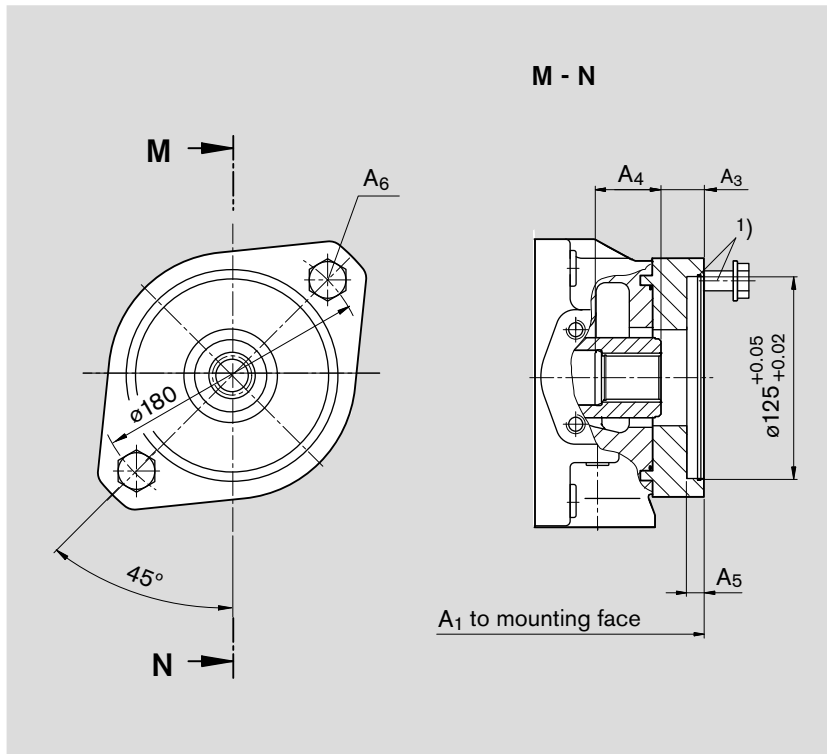


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 18,9 | 29,5 | 10 | M12 |
| 180 | 393 | 18,9 | 29,5 | 10 | M12 |
| 250 | 453 | 20,9 | 29,5 | 10 | M12 |
| 355 | 482 | 20,9 | 29,5 | 10 | M12 |

¹⁾ 2 mounting screws and O-ring seal are included with supply

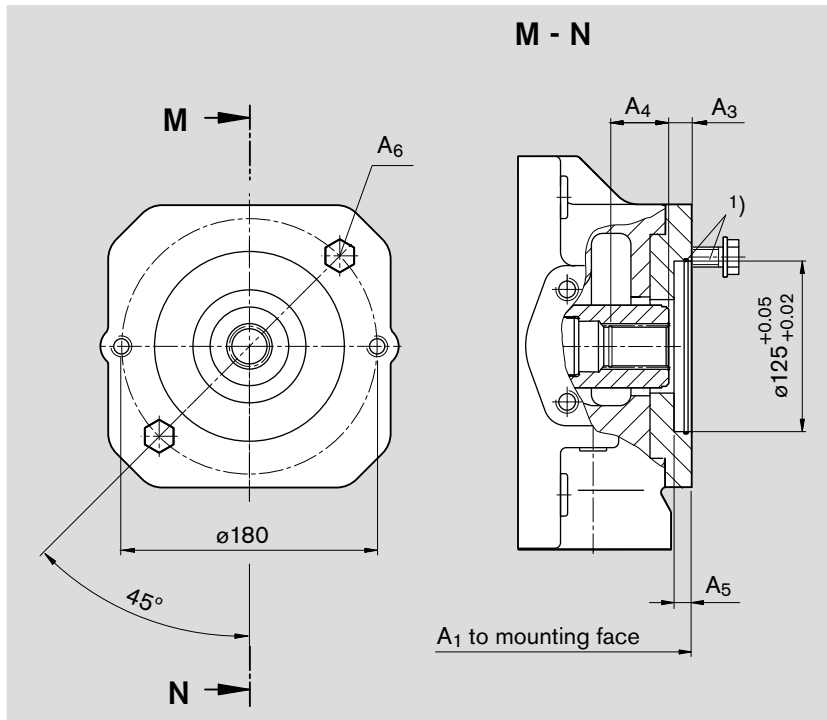
Dimensions through drives

KB5 Flange ISO 3019-2 125, 2-hole
Shaft coupler for splined shaft, 32-4 SAE C, 1 1/4 in, 12/24 DP; 14T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 71 | 321 | 23 | 38 | 10 | M20 |
| 500 | in preparation | | | | |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

UB5 Flange ISO 3019-2 125, 2-hole
Shaft coupler for splined shaft, 32-4 SAE C, 1 1/4 in, 12/24 DP; 14T³⁾
 for mounting an A10VSO 71/31 splined shaft S (see RE 92711)

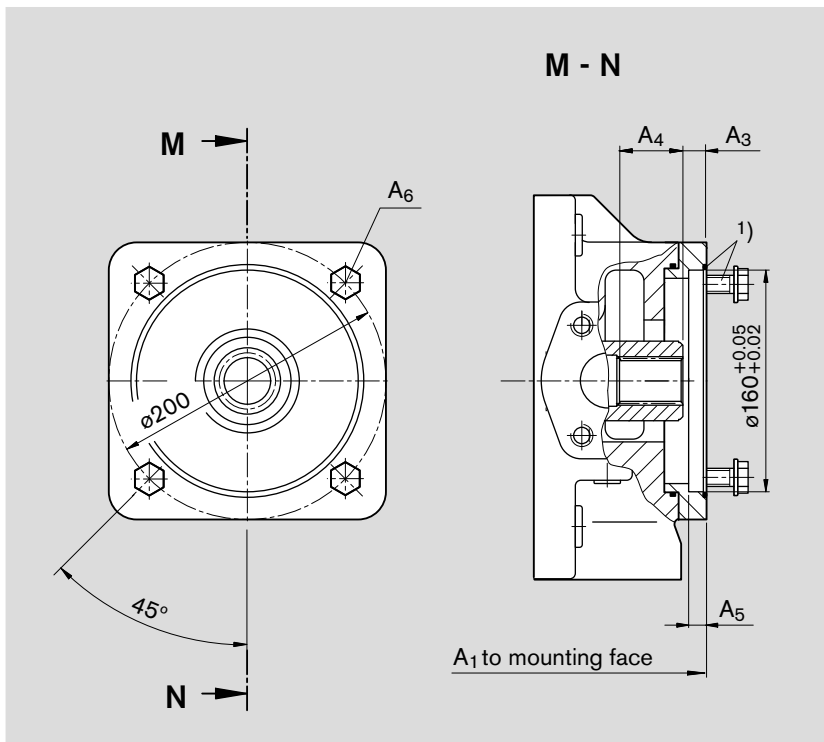


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 20 | 38 | 9 | M16 |
| 180 | 393 | 20 | 38 | 9 | M16 |
| 250 | 453 | 20,9 | 37,9 | 9 | M16 |
| 355 | 482 | 20,9 | 37,9 | 9 | M16 |

1) 2 mounting screws and O-ring seal are included with supply

Dimensions through drives

UB8 Flange ISO 3019-2 160, 4-hole
 Shaft coupler for splined shaft, 32-4 SAE C, 1 1/4 in, 12/24 DP; 14T³⁾

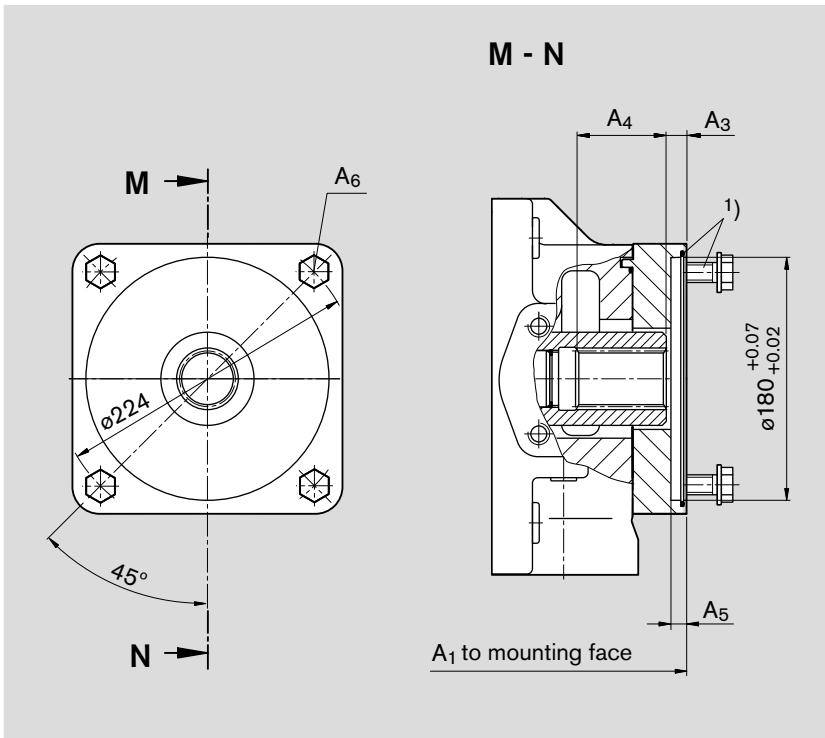


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | in preparation | | | | |
| 180 | in preparation | | | | |
| 250 | 453 | 20,9 | 38 | 9 | M16 |
| 355 | in preparation | | | | |

1) Mounting screws and O-ring seal are included with supply

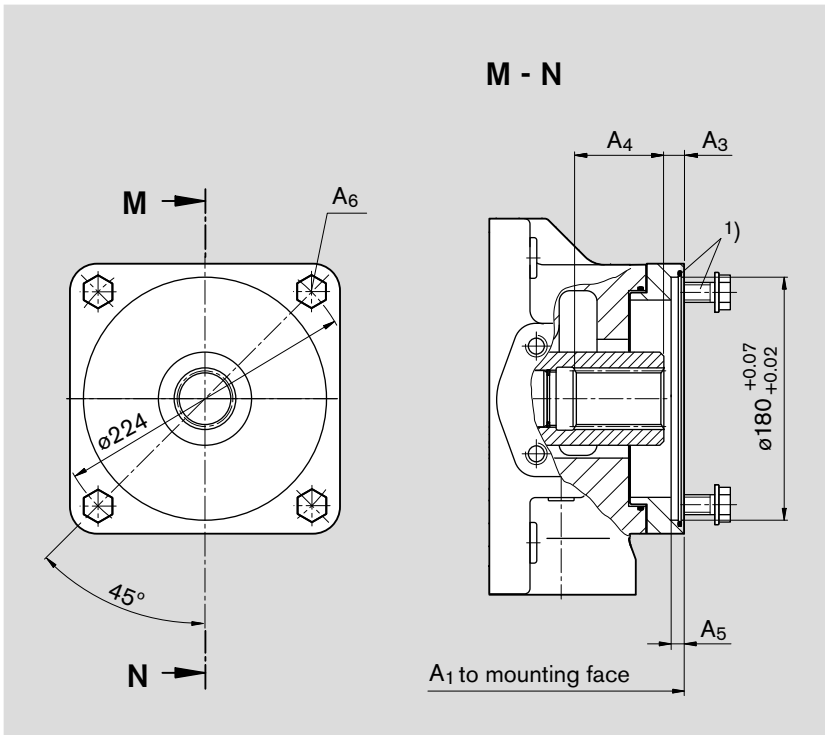
Dimensions through drives

KB7 Flange ISO 3019-2 180, 4-hole
 Shaft coupler for splined shaft, 44-4 SAE D, 1 3/4 in, 8/16 DP; 13T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 500 | 530 | 10,4 | 63,6 | 10 | M16 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

UB7 Flange ISO 3019-2 180, 4-hole
 Shaft coupler for splined shaft, 44-4 SAE D, 1 3/4 in, 8/16 DP; 13T³⁾

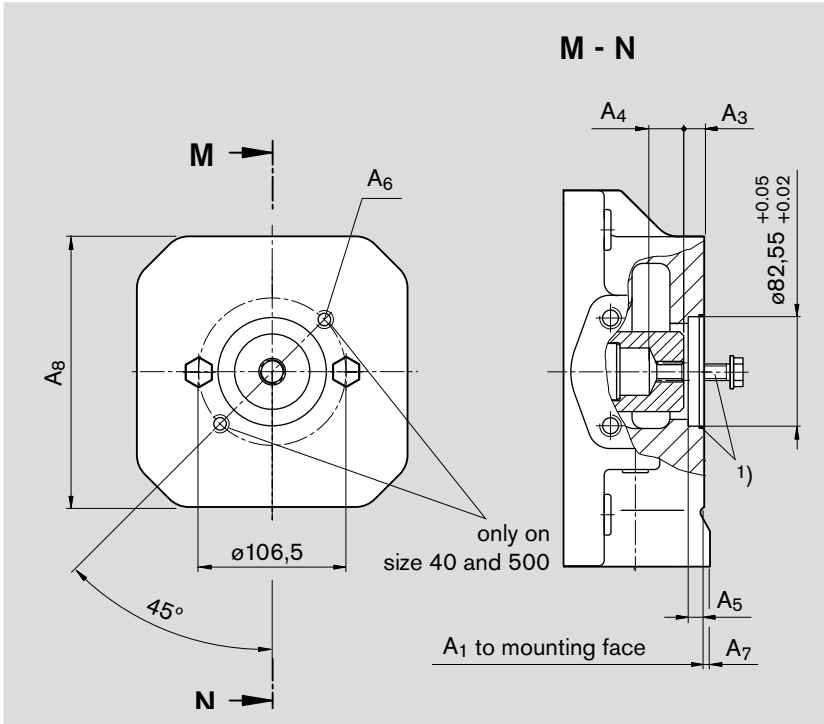


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 180 | 406 | 10,6 | 62 | 9 | M16 |
| 250 | 453 | 10,6 | 64 | 9 | M16 |
| 355 | 482 | 10,6 | 64 | 9 | M16 |

¹⁾ Mounting screws and O-ring seal are included with supply

Dimensions through drives

K01 Flange ISO 3019-1 82-2 (SAE A)
Shaft coupler for splined shaft, 16-4 SAE A, 5/8 in, 16/32 DP; 9T³⁾
 Rexroth recommends a special execution of the gear pump, please consult us

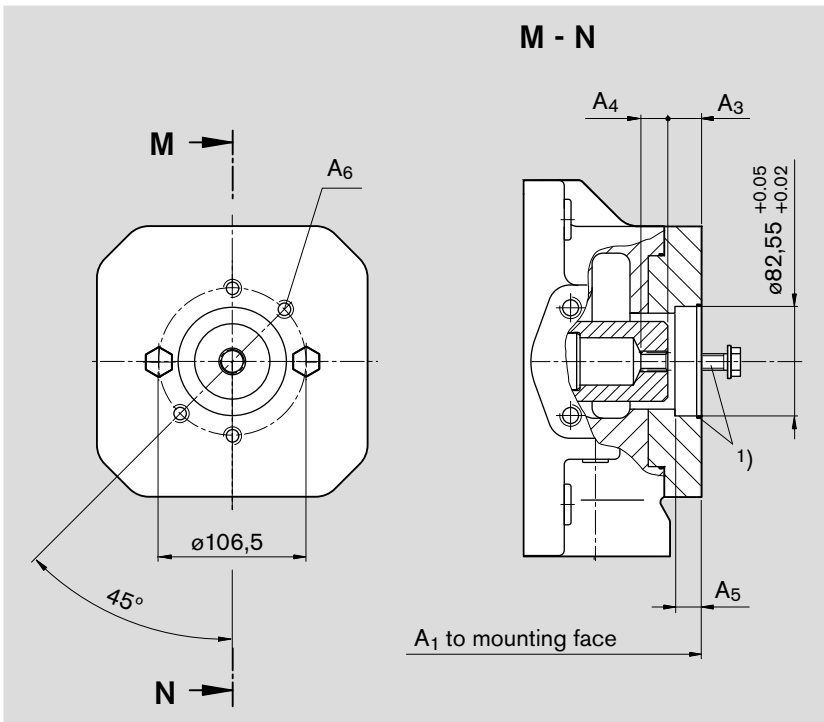


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | 263 | 10,3 | 25,9 | 10 | M10 |
| 71 | 291 | 10,3 | 24,6 | 10 | M10 |
| 500 | 505 | 10,3 | 32,7 | 10 | M10 |
| 750 | 555 | 10,3 | 32,7 | 10 | M10 |
| 750* | in preparation | | | | |
| 1000 | in preparation | | | | |

| NG | A ₇ | A ₈ |
|------|----------------|----------------|
| 40 | - | - |
| 71 | 2 | 140 |
| 500 | 15 | 240 |
| 750 | - | - |
| 750* | in preparation | |
| 1000 | in preparation | |

* with boost pump

U01 Flange ISO 3019-1 82-2 (SAE A)
Shaft coupler for splined shaft, 16-4 SAE A, 5/8 in, 16/32 DP; 9T³⁾
 Rexroth recommends a special execution of the gear pump, please consult us

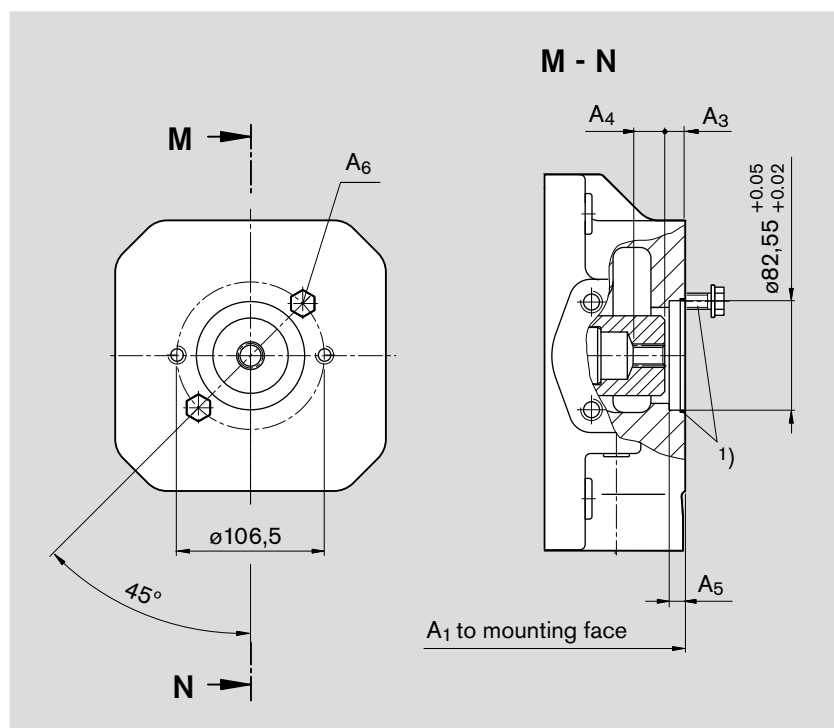


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 16 | 19,4 | 13 | M10 |
| 180 | 393 | 16 | 19,4 | 13 | M10 |
| 250 | 453 | 16 | 19,4 | 13 | M10 |
| 355 | 482 | 16 | 19,4 | 13 | M10 |

1) 2 mounting screws and O-ring seal are included with supply

Dimensions through drives

K52 Flange ISO 3019-1 82-2 (SAE A)
 Shaft coupler for splined shaft, 19-4 SAE A-B, 3/4 in, 16/32 DP; 11T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | 263 | 10,5 | 33,8 | 10 | M10 |
| 71 | 315 | 10,5 | 30 | 10 | M10 |
| 500 | in preparation | | | | |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

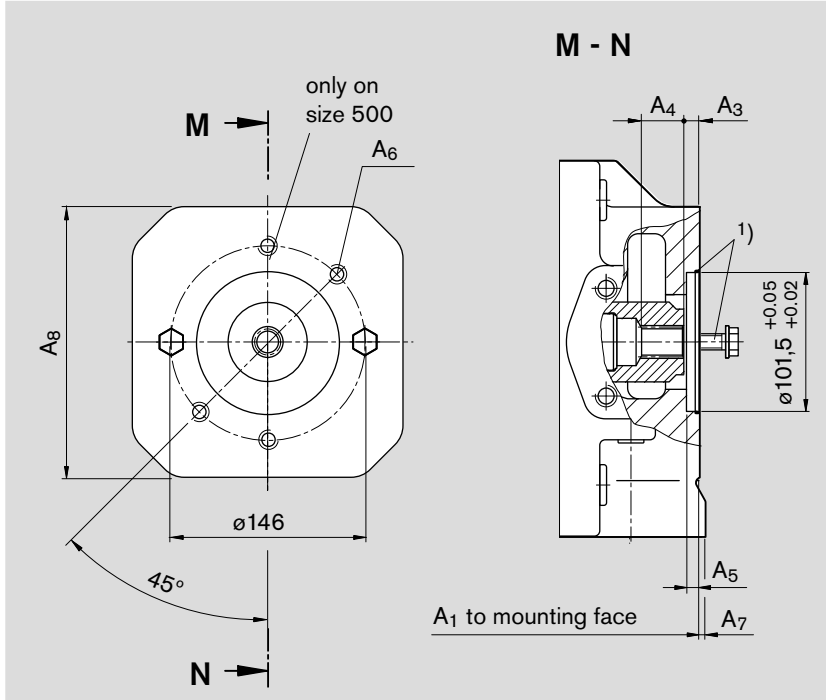
Sizes 125...355 with U-through drive in preparation

¹⁾ 2 mounting screws and O-ring seal are included with supply

Dimensions through drives

K68 Flange ISO 3019-1 101-2 (SAE B)
Shaft coupler for splined shaft 22-4 SAE B, 7/8 in, 16/32 DP; 13T³⁾

Rexroth recommends a special excution of the gear pump, please consult us

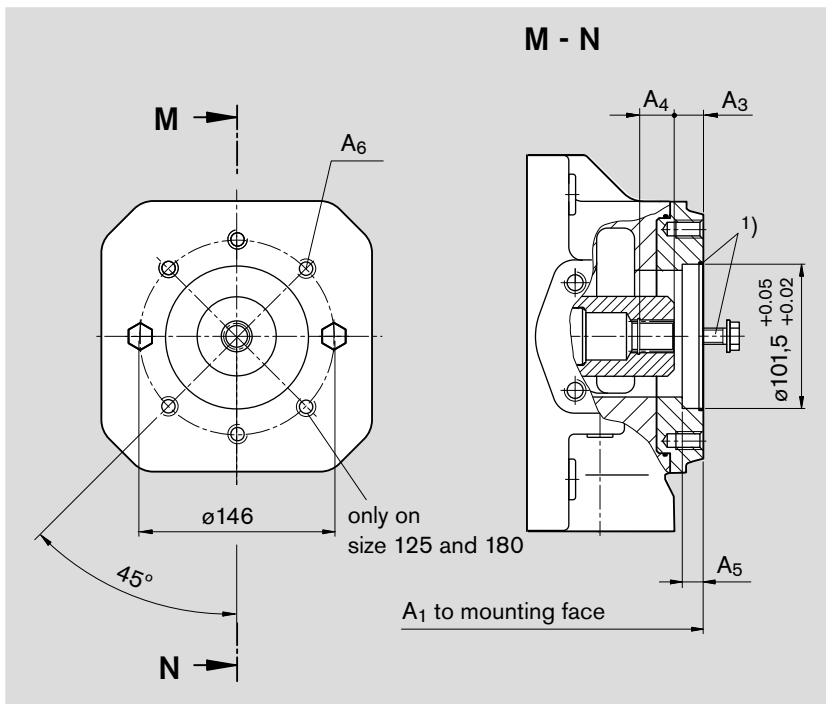


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | 290 | 20,4 | 23,1 | 10 | M12 |
| 71 | 322 | 10,4 | 35,1 | 10 | M12 |
| 500 | 505 | 19,5 | 25 | 10 | M12 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

| Size | A ₇ | A ₈ |
|------|----------------|----------------|
| 40 | - | - |
| 71 | - | - |
| 500 | 15 | 240 |
| 750 | in preparation | |
| 1000 | in preparation | |

U68 Flange ISO 3019-1 101-2 (SAE B)
Shaft coupler for splined shaft 22-4 SAE B, 7/8 in, 16/32 DP; 13T³⁾

Rexroth recommends a special excution of the gear pump, please consult us

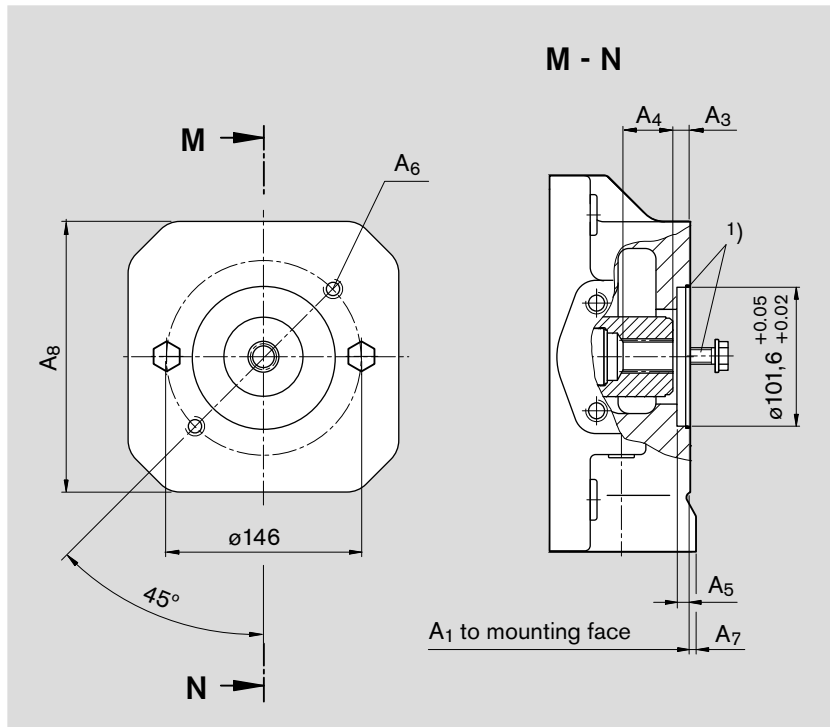


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 28 | 25 | 13 | M12 |
| 180 | 393 | 28 | 25 | 13 | M12 |
| 250 | 453 | 19,5 | 23,1 | 13 | M12 |
| 355 | 482 | 19,5 | 23,1 | 13 | M12 |

¹⁾ 2 mounting screws and O-ring seal are included with supply

Dimensions through drives

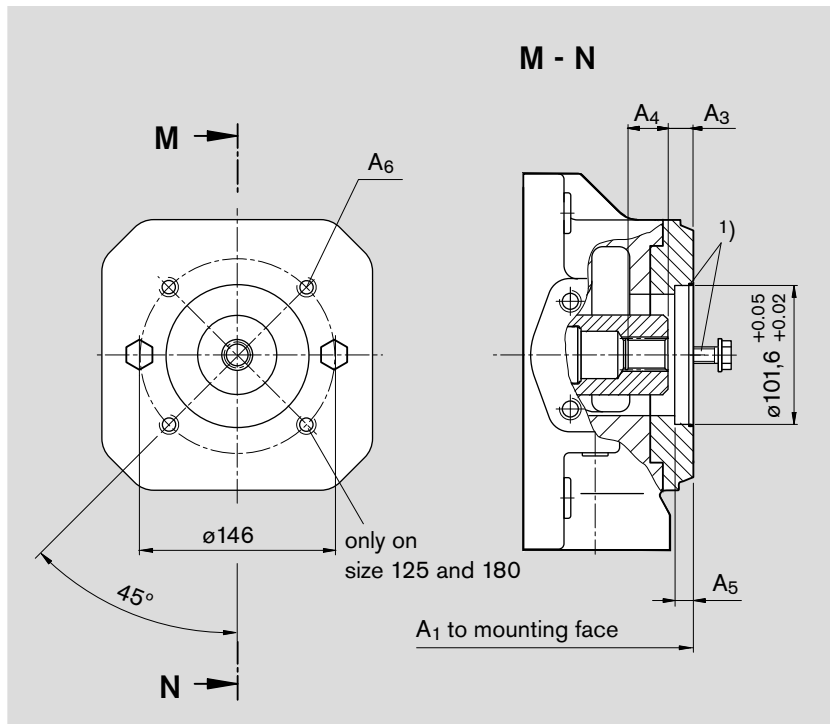
K04 Flange ISO 3019-1 101-2 (SAE B)
Shaft coupler for splined shaft 25-4 SAE B-B, 1 in, 16/32 DP; 15T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 40 | 290 | 10,4 | 37,9 | 10 | M12 |
| 71 | 322 | 10,3 | 35,7 | 10 | M12 |
| 500 | 505 | 10,3 | 28,9 | 10 | M12 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

| Size | A ₇ | A ₈ |
|------|----------------|----------------|
| 40 | - | - |
| 71 | - | - |
| 500 | 15 | 240 |
| 750 | in preparation | |
| 1000 | in preparation | |

U04 Flange ISO 3019-1 101-2 (SAE B)
Shaft coupler for splined shaft 25-4 SAE B-B, 1 in, 16/32 DP; 15T³⁾
 for mounting an A10VO 45/31 and 52 (53) splined shaft S (see RE 92701 and 92703) or an internal gear pump PGH4 (see RE 10223)

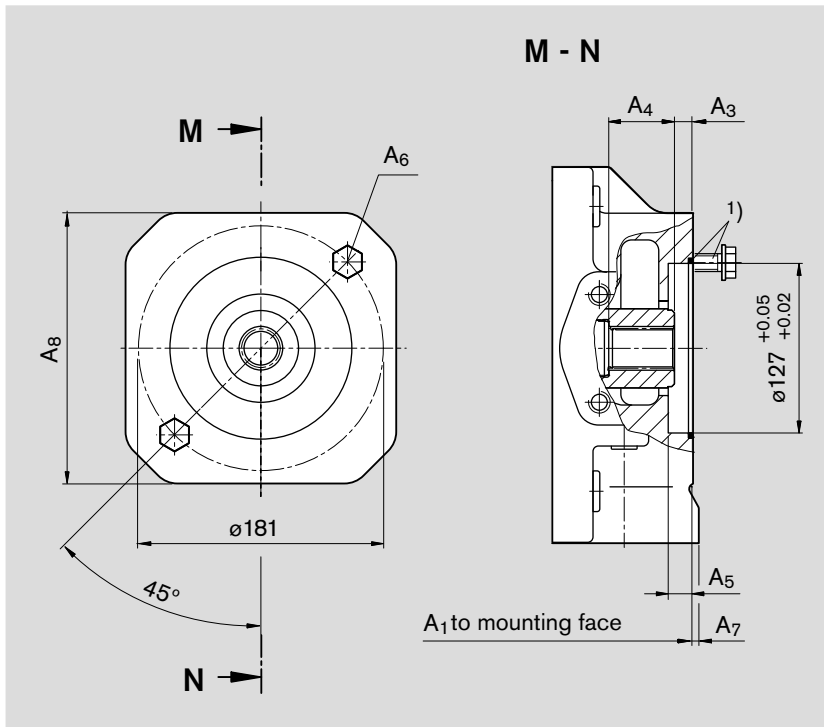


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 18,9 | 29,4 | 13 | M12 |
| 180 | 393 | 18,9 | 29,4 | 13 | M12 |
| 250 | 453 | 18,9 | 29,4 | 13 | M12 |
| 355 | 482 | 18,9 | 29,4 | 13 | M12 |

¹⁾ 2 mounting screws and O-ring seal are included with supply

Dimensions through drives

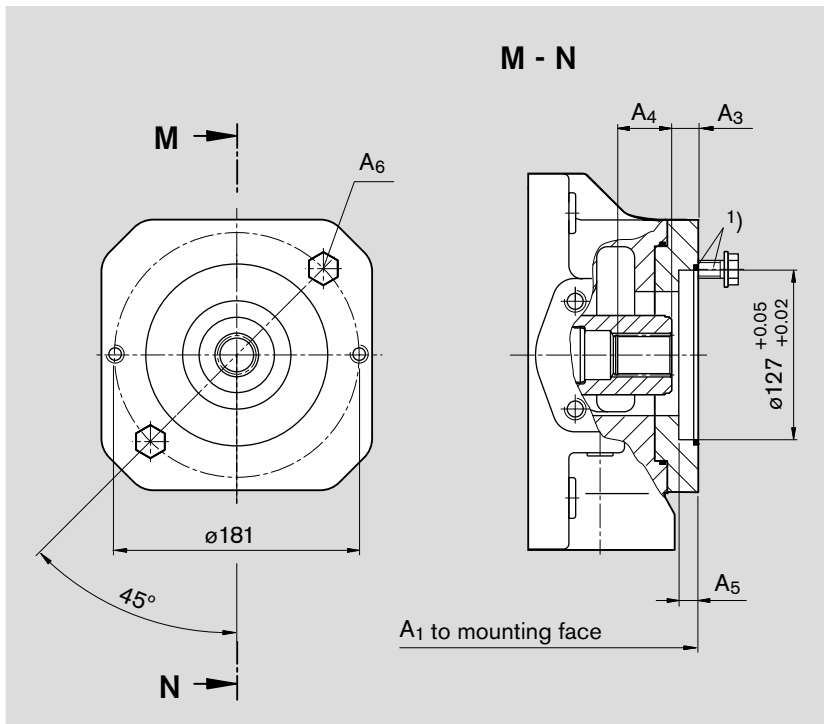
K07 Flange ISO 3019-1 127-2 (SAE C)
 Shaft coupler for splined shaft 32-4 SAE C, 1 1/4 in, 12/24 DP; 14T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 71 | 321 | 10,4 | 47,6 | 13 | M16 |
| 500 | 505 | 11,3 | 40,2 | 13 | M16 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

| Size | A ₇ | A ₈ |
|------|----------------|----------------|
| 71 | - | - |
| 500 | 15 | 240 |
| 750 | in preparation | |
| 1000 | in preparation | |

U07 Flange ISO 3019-1 127-2 (SAE C)
 Shaft coupler for splined shaft 32-4 SAE C, 1 1/4 in, 12/24 DP; 14T³⁾

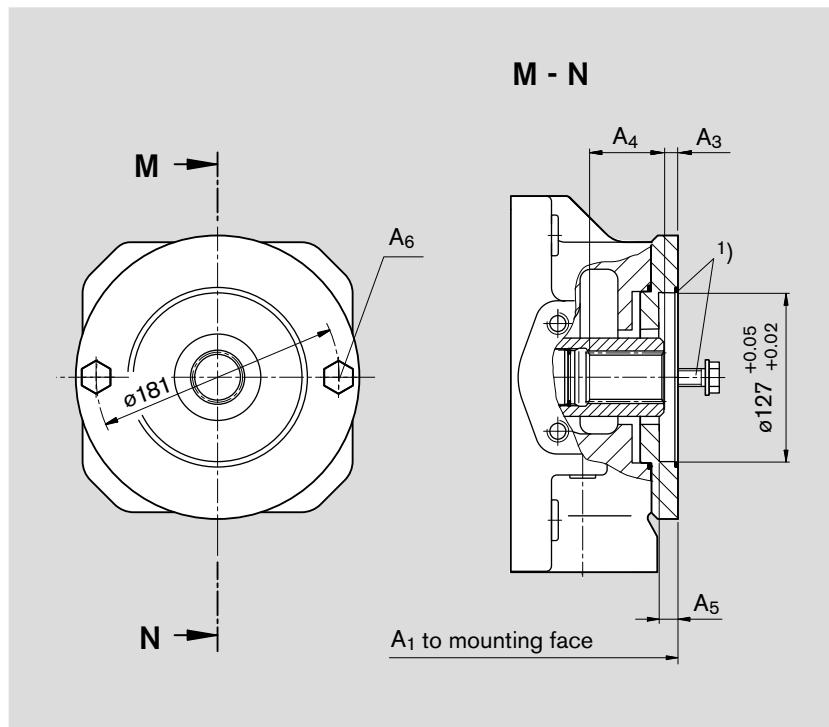


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 20,9 | 37,9 | 13 | M16 |
| 180 | 393 | 20,9 | 37,9 | 13 | M16 |
| 250 | 453 | 20,9 | 37,9 | 13 | M16 |
| 355 | 482 | 20,9 | 37,9 | 13 | M16 |

¹⁾ 2 mounting screws and O-ring seal are included with supply

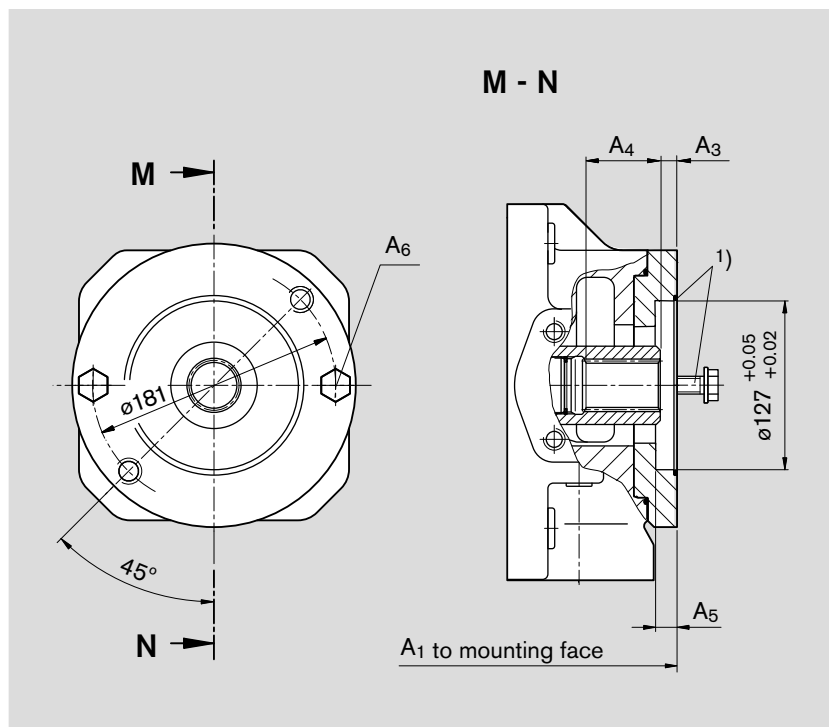
Dimensions through drives

K24 Flange ISO 3019-1 127-2 (SAE C)
 Shaft coupler for splined shaft 38-4 SAE C-C, 1 1/2 in, 12/24 DP; 17T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 500 | 505 | 10,3 | 56,7 | 13 | M16 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

U24 Flange ISO 3019-1 127-2 (SAE C)
 Shaft coupler for splined shaft 38-4 SAE C-C, 1 1/2 in, 12/24 DP; 17T³⁾

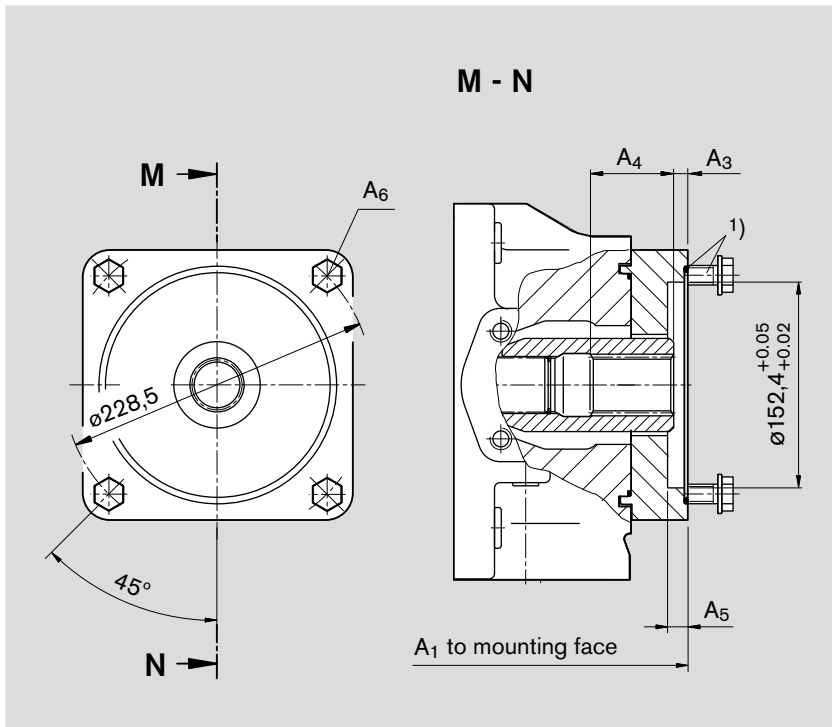


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 125 | 369 | 10,4 | 50 | 13 | M16 |
| 180 | 393 | 10,4 | 50 | 13 | M16 |
| 250 | 453 | 12,4 | 55 | 13 | M16 |
| 355 | 482 | 12,4 | 55 | 13 | M16 |

¹⁾ 2 mounting screws and O-ring seal are included with supply

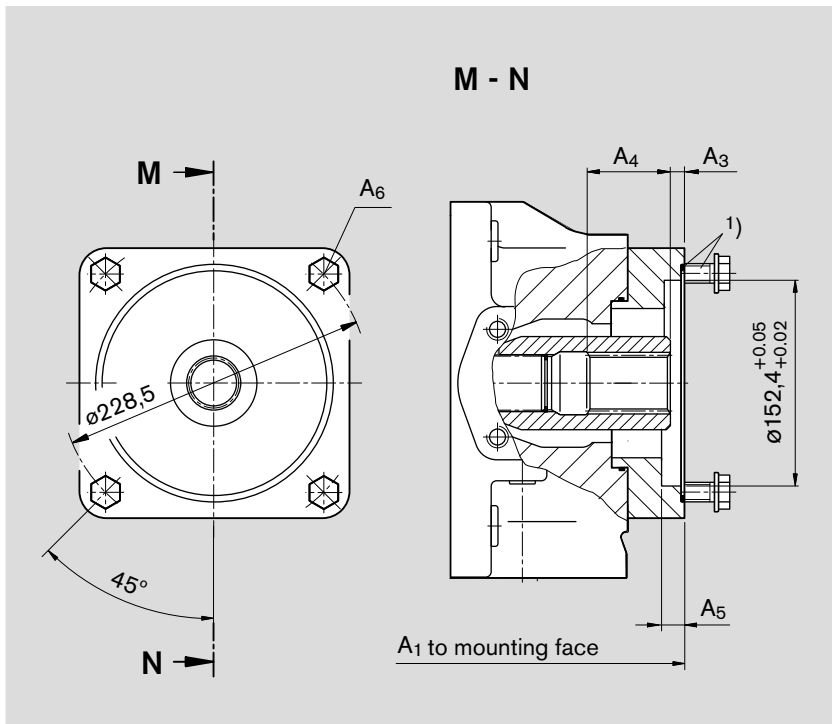
Dimensions through drives

K17 Flange ISO 3019-1 152-4 (SAE D)
 Shaft coupler for splined shaft 44-4 SAE D, 1 3/4 in, 8/16 DP; 13T³⁾



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 500 | 505 | 10,4 | 59,6 | 13 | M16 |
| 750 | in preparation | | | | |
| 1000 | in preparation | | | | |

U17 Flange ISO 3019-1 152-4 (SAE D)
 Shaft coupler for splined shaft 44-4 SAE D, 1 3/4 in, 8/16 DP; 13T³⁾

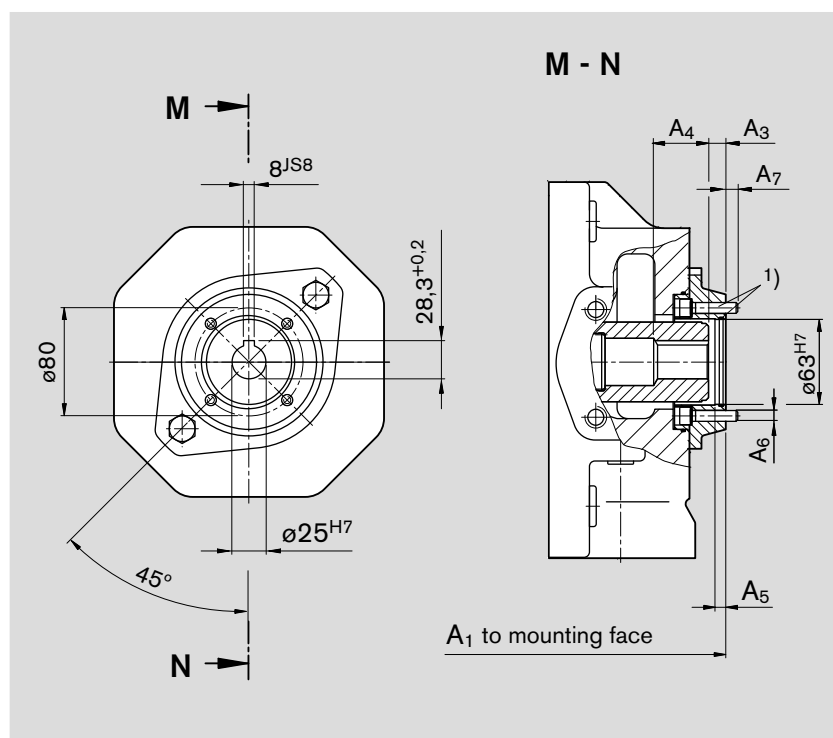


| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ |
|------|----------------|----------------|----------------|----------------|------------------------------|
| 180 | 406 | 10,4 | 62 | 13 | M16 |
| 250 | 453 | 10,6 | 62 | 13 | M16 |
| 355 | 482 | 10,6 | 62 | 13 | M16 |

1) 2 mounting screws and O-ring seal are included with supply

Dimensions through drives

K57 dia. 63 metric, 4-hole
Shaft coupler for keyed shaft dia. 25



| Size | A ₁ | A ₃ | A ₄ | A ₅ | A ₆ ²⁾ | A ₇ |
|------|----------------|----------------|----------------|----------------|------------------------------|----------------|
| 40 | 288 | 11 | 56 | 8 | M8 | 9 |
| 71 | 319 | 10,9 | 42 | 8 | M8 | 9 |
| 500 | in preparation | | | | | |
| 750 | in preparation | | | | | |

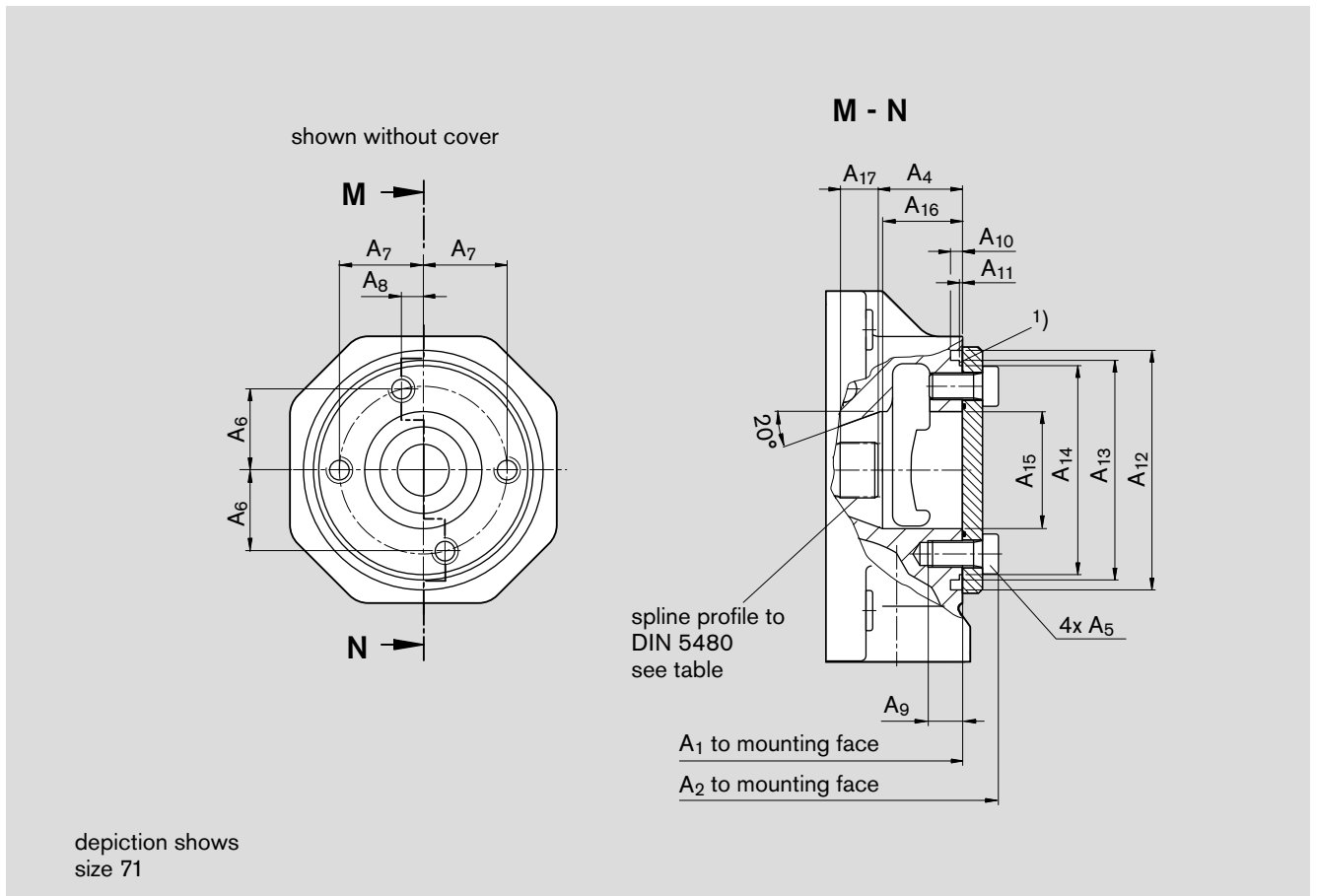
Sizes 125...355 with U-through drive in preparation

¹⁾ Mounting screws and O-ring seal are included with supply

Dimensions through drives

K99 Sizes 40 and 71

with through drive shaft, without shaft coupler, without adapter flange, closed with pressure tight cover



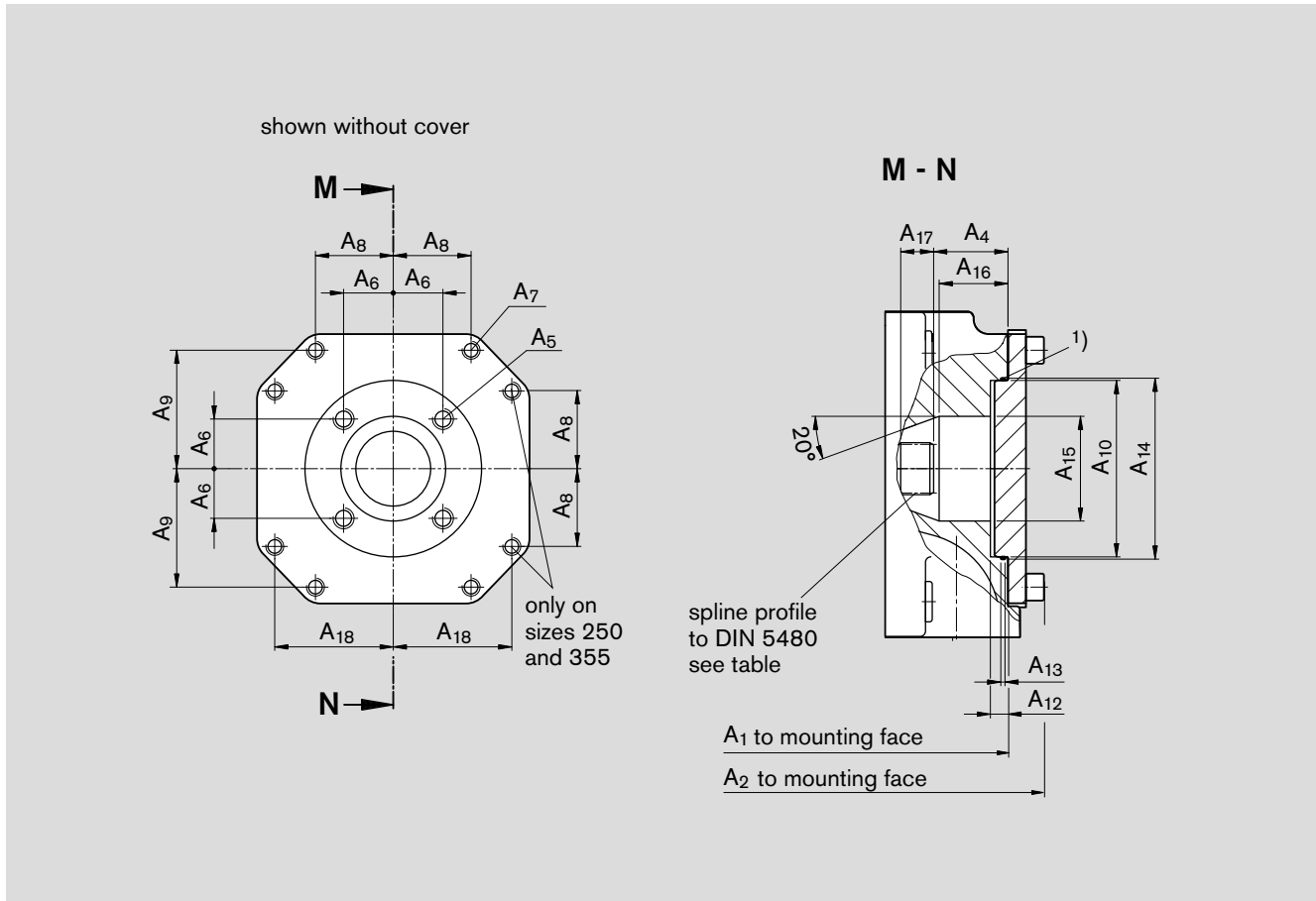
| Size Main pump | A ₁ | A ₂ | A ₄ | A ₅ | A ₆ | A ₇ | A ₈ | A ₉ | A ₁₀ | A ₁₁ | A ₁₂ | A ₁₃ |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------------|-----------------|--------------------|
| 40 | 263 | 280 | 51.3±1 | M12x25 | 37±0.2 | 37±0.2 | 0 | 18 | 9 | 2.3 ^{+0.1} | ∅118 | ∅105 _{g6} |
| 71 | 291 | 310 | 48±1 | M12x25 | 42,3 ±0,15 | 45 ±0,15 | 15,4±0,15 | 18 | 9 | 2.7 ^{+0.1} | ∅130 | ∅116 _{g6} |

| Size Main pump | A ₁₄ | A ₁₅ | A ₁₆ | A ₁₇ | Spline profile to DIN 5480 | ¹⁾ O-Ring for retrofitting (not in supply) |
|-------------------|------------------------|-----------------|-----------------|-----------------|-------------------------------|--|
| 40 | ∅97.6 _{-0.4} | ∅52 | 44 | 14 | W25x1,25x18x9g | 99 x 3 |
| 71 | ∅106.4 _{-0.4} | ∅63 | 38 | 16 | W30x1,25x22x9g | 110,72 x 3,53 |

Dimensions through drives

U99 Sizes 125...355

with through drive shaft, without shaft coupler, without adapter flange, closed with pressure tight cover



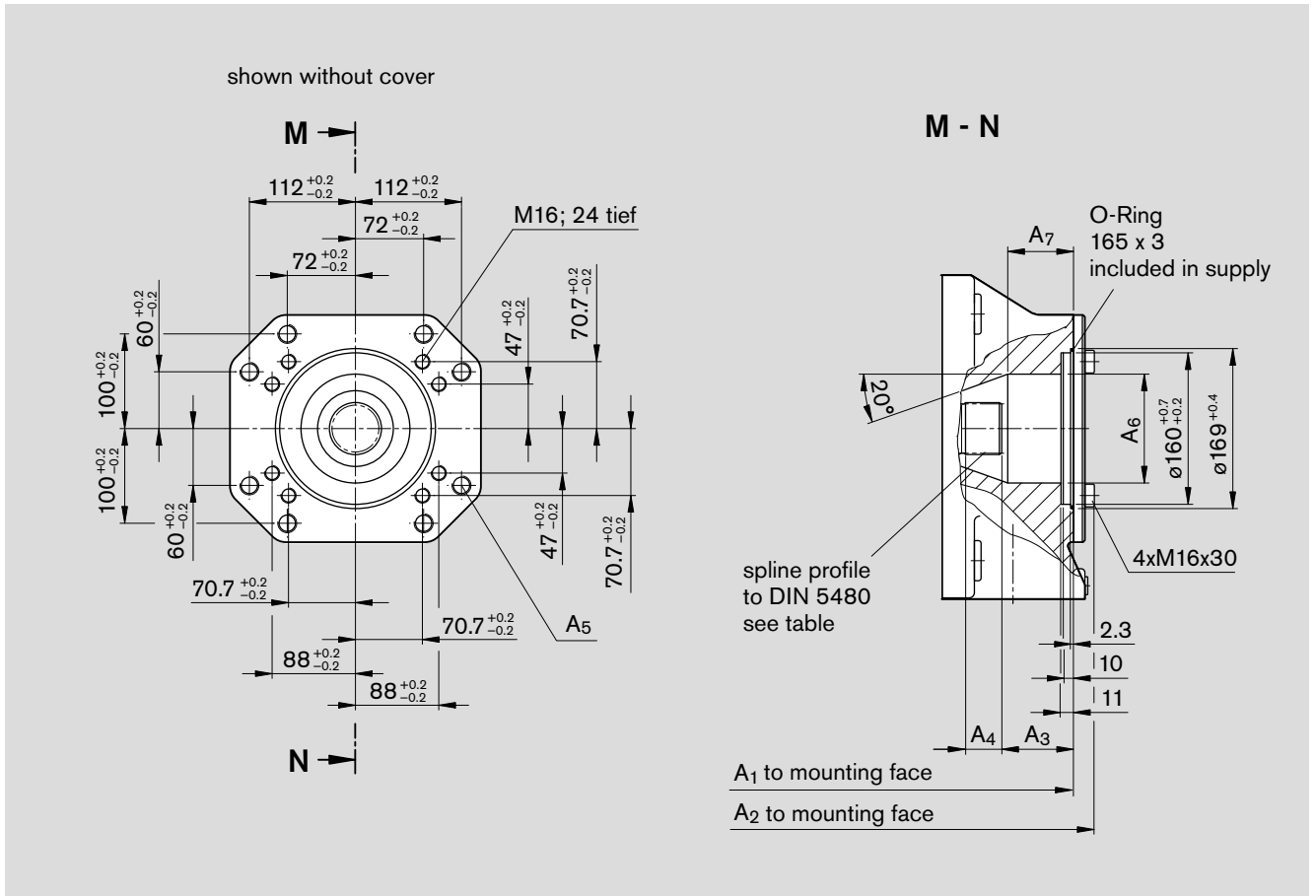
| Size Main pump | A ₁ | A ₂ | A ₄ | A ₅ | A ₆ | A ₇ | A ₈ | A ₉ | A ₁₀ | A ₁₂ | A ₁₃ |
|-------------------|----------------|----------------|----------------|----------------|-----------------------|----------------|------------------------|-----------------------|--------------------|-----------------|---------------------|
| 125 | 347 | 368 | 49.7±1 | M14; 15 deep | 33,2 ^{+0.15} | M12; 18 deep | – | 79,2 ^{+0.15} | ∅118 ^{H7} | 9 | 2,8 ^{+0.2} |
| 180 | 371 | 392 | 49.7±1 | M14; 15 deep | 33,2 ^{+0.15} | M12; 18 deep | – | 79,2 ^{+0.15} | ∅118 ^{H7} | 9 | 2,8 ^{+0.2} |
| 250 | 431 | 455 | 61.4±1 | M20; 22 deep | 44,5 ^{+0.15} | M10; 15 deep | 58,15 ^{+0.15} | 86,2 ^{+0.15} | ∅160 ^{H7} | 9 | 2,8 ^{+0.2} |
| 355 | 460 | 487 | 61.4±1 | M20; 22 deep | 44,5 ^{+0.15} | M10; 15 deep | 58,15 ^{+0.15} | 86,2 ^{+0.15} | ∅160 ^{H7} | 9 | 2,8 ^{+0.2} |

| Size Main pump | A ₁₄ | A ₁₅ | A ₁₆ | A ₁₇ | A ₁₈ | Spline profile to DIN 5480 | ¹⁾ O-Ring for retrofitting (included in supply) |
|-------------------|----------------------|-----------------|-----------------|-----------------|-----------------------|-------------------------------|---|
| 125 | ∅121 ^{+0.1} | ∅70 | 46 | 22 | – | W35x1,25x26x9g | 118 x 2 |
| 180 | ∅121 ^{+0.1} | ∅70 | 46 | 25 | – | W35x1,25x26x9g | 118 x 2 |
| 250 | ∅163 ^{+0.1} | ∅87 | 64 | 30,5 | 86,2 ^{+0.15} | W42x1,25x32x9g | 160 x 2 |
| 355 | ∅163 ^{+0.1} | ∅87 | 64 | 34 | 86,2 ^{+0.15} | W42x1,25x32x9g | 160 x 2 |

Dimensions through drives

K99 Sizes 500...1000

with through drive shaft, without shaft coupler, without adapter flange, closed with pressure tight cover



| Size Main pump | A ₁ | A ₂ | A ₃ | A ₄ | A ₅ | A ₆ | A ₇ | Spline profile to DIN 5480 |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------------------|
| 500 | 505 | 527 | 73 | 41 | M20; 24 deep | $\phi 115$ | 75 | W55x1,25x42x9g |
| 750 | 555 | 577 | 73 | 41 | M20; 24 deep | $\phi 115$ | 75 | W55x1,25x42x9g |
| 750* | in preparation | | | | | | | |
| 1000 | 628 | 650 | 77 | 66,5 | M20; 30 deep | $\phi 138$ | 65 | W65x1,25x50x9g |

* with boost pump