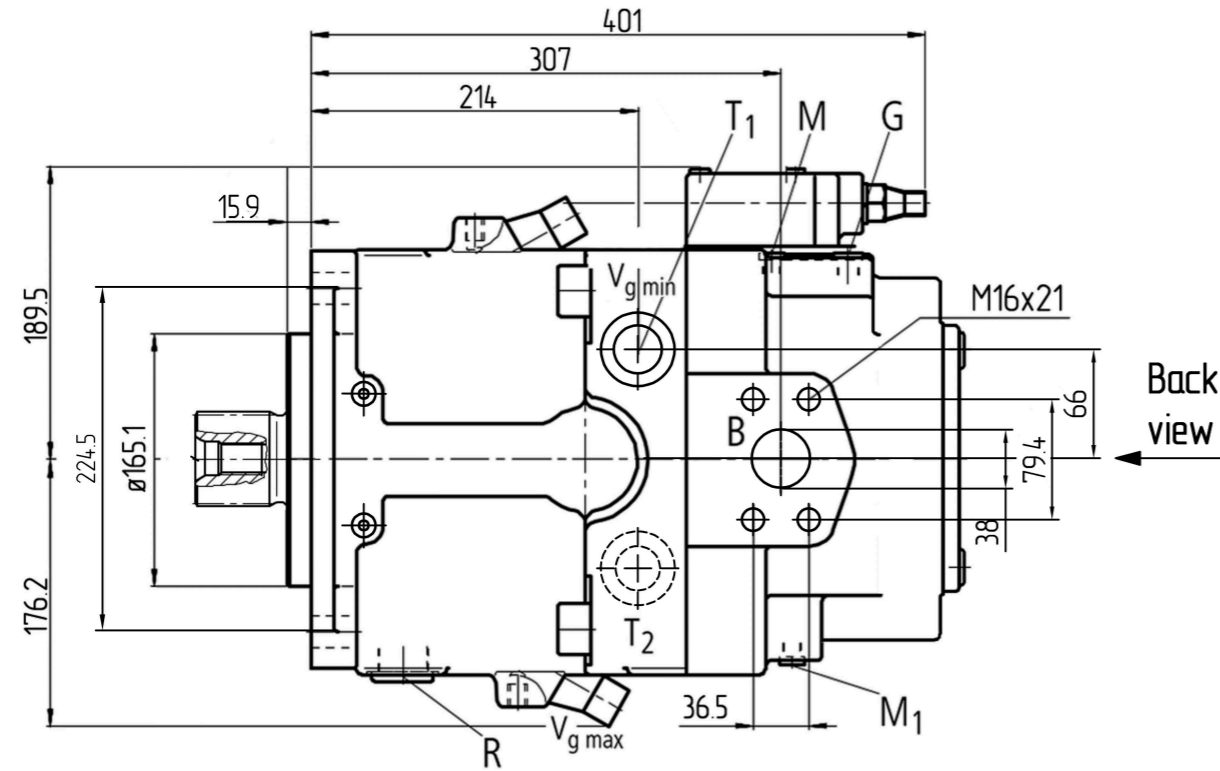
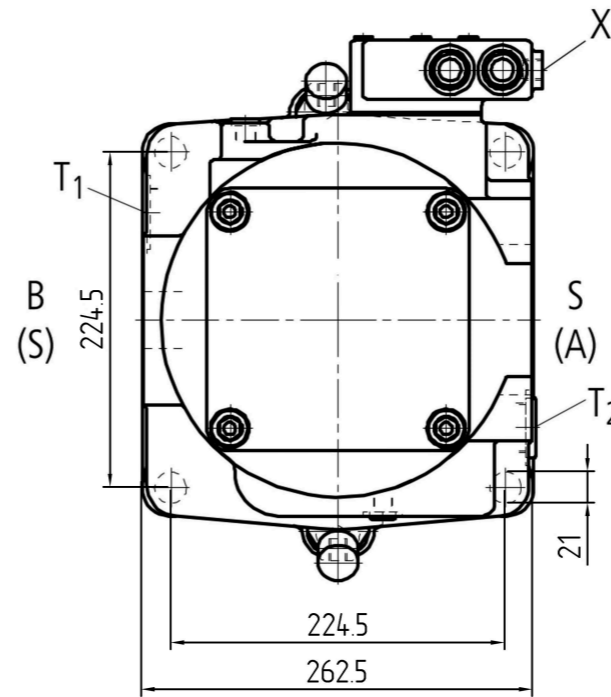


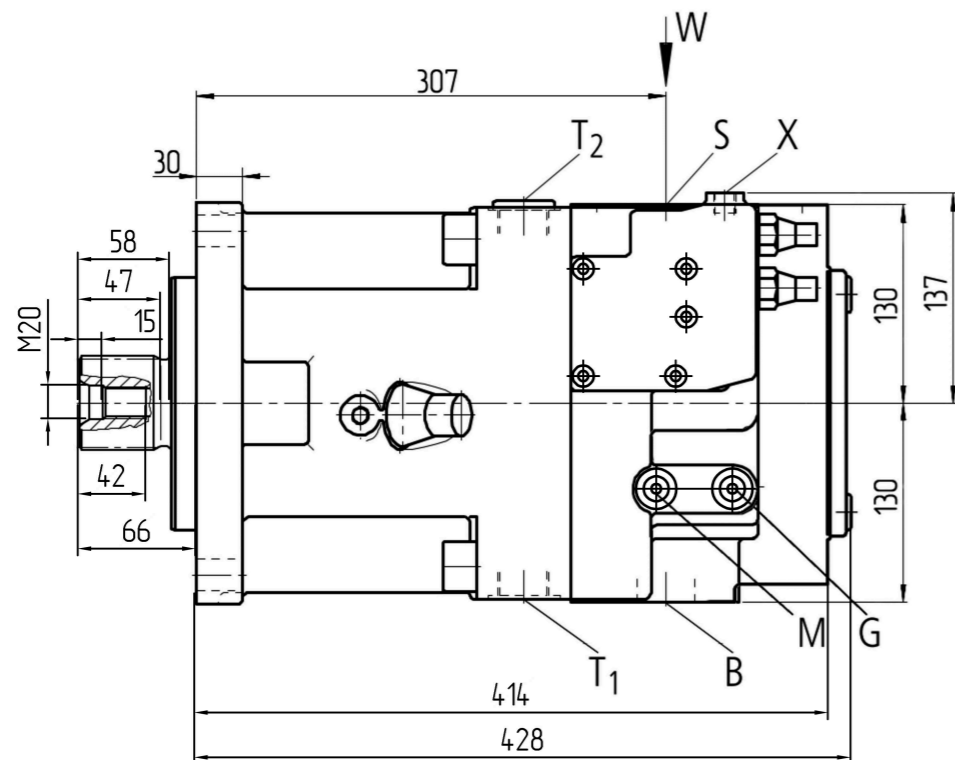
Right view



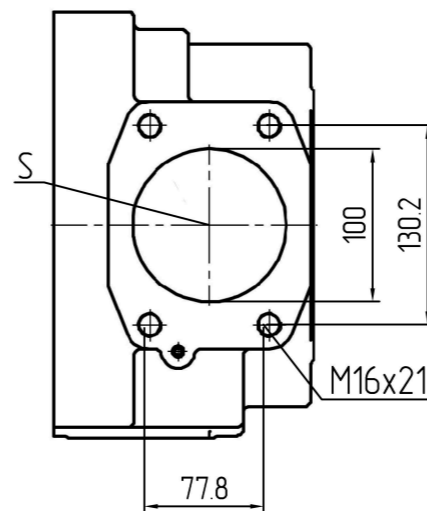
Back view



Top view



W



DRS - Pressure control with load sensing
The load sensing control works as a flow controller controlled by load pressure and coordinates the pump displacement to the quality required by the actuator.

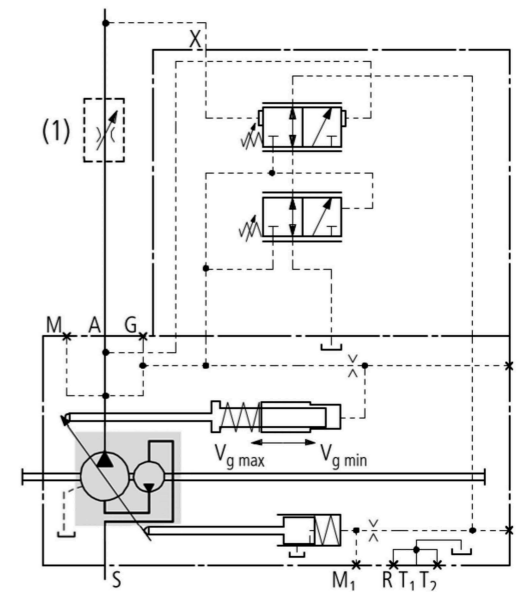
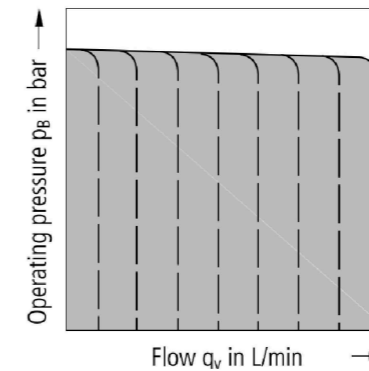
The pump flow depends on the external orifice (control block, throttle valve) switched between the pump and the actuator, but is not affected by the load pressure over the whole range below the pressure signal value.

The valve compares the pressure upstream of the orifice with the downstream pressure and keeps the pressure drop (differential pressure Δp) occurring here, and hence the flow, constant.

If the differential pressure rises, the pump is swivelled back (direction $V_{g \text{ min}}$). If the differential pressure Δp drops, the pump is swivelled out (direction $V_{g \text{ max}}$), until balance is restored in the valve.

$$\Delta p_{\text{orifice}} = p_{\text{pump}} - p_{\text{actuator}}$$

(1) The orifice (throttle valve) is not included in the supply



- Important notice
- The setting range for Δp is between 14 bar and 25 bar.
 - The standard setting is 18 bar (please state in clear text)
 - The stand-by-pressure in zero stroke mode (orifice closed) is slightly higher than the Δp setting.
 - Pressure control overrides the load sensing control, i.e. the load sensing function is performed below the set pressure signal value.

Specification	
Displacement	260 cc/rev
Connection flange	SAE J744 (4 holes)
Drive shaft	DIN 5480 (W60x2x30x28x9g)
Rotation speed	min 500 RPM max 2300 RPM
Rated Pressure	350 bar
Peak Pressure	420 bar
Max pressure case	4 bar
Suction pressure	35 bar
Seals material	NBR

Part	Specifications	pmax abc bar
A, (B)	Service part (with charging pump)	SAE 1 1/2 420
S	Suction part (with charging pump)	SAE 3 1/2 35
T1, T2	Air bleed, tank	M33x2; 16 deep
R	Air bleed, oil drain	M33x2; 16 deep
M1	Measuring point, regulating chamber	M12x15; 12 deep
M	Measuring point, service part	M12x15; 12 deep
X	Pilot port	M14x15; 12 deep
G	Part for positioning pressure (controller)	M14x15; 12 deep

Metoda zobrazení: ISO-E

Index změny:

Číslo změny:

Datum:

Číslo verze: 001

2602233754

Všeobecný parametr drsnosti povrchu: Ra [µm]

Průměr [mm]: Matyáš Bunta

Datum: 14.10.2021

Neznané hranice a přechody bez odlepů, max. zaoblení R0,2 (0,2x45°)

Schválil:

Datum:

Všeobecný tolerance dle ČSN ISO 2768. Třída přesnosti: cK

Číslo palivového:

Název: J11VLO 260DRS/11R-NZD 12N00

Dělkové rozměry podle ČSN ISO 2768m

> 0.5	> 3	> 6	> 30	> 120	> 400	> 1000	> 2000
± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2

Hmotnost [kg]: 1.1

Typ výrobku: 11

Číslo výkresu: VIZ TABULKA SEE THE TABLE

Formát výkresu: A2

Líst C