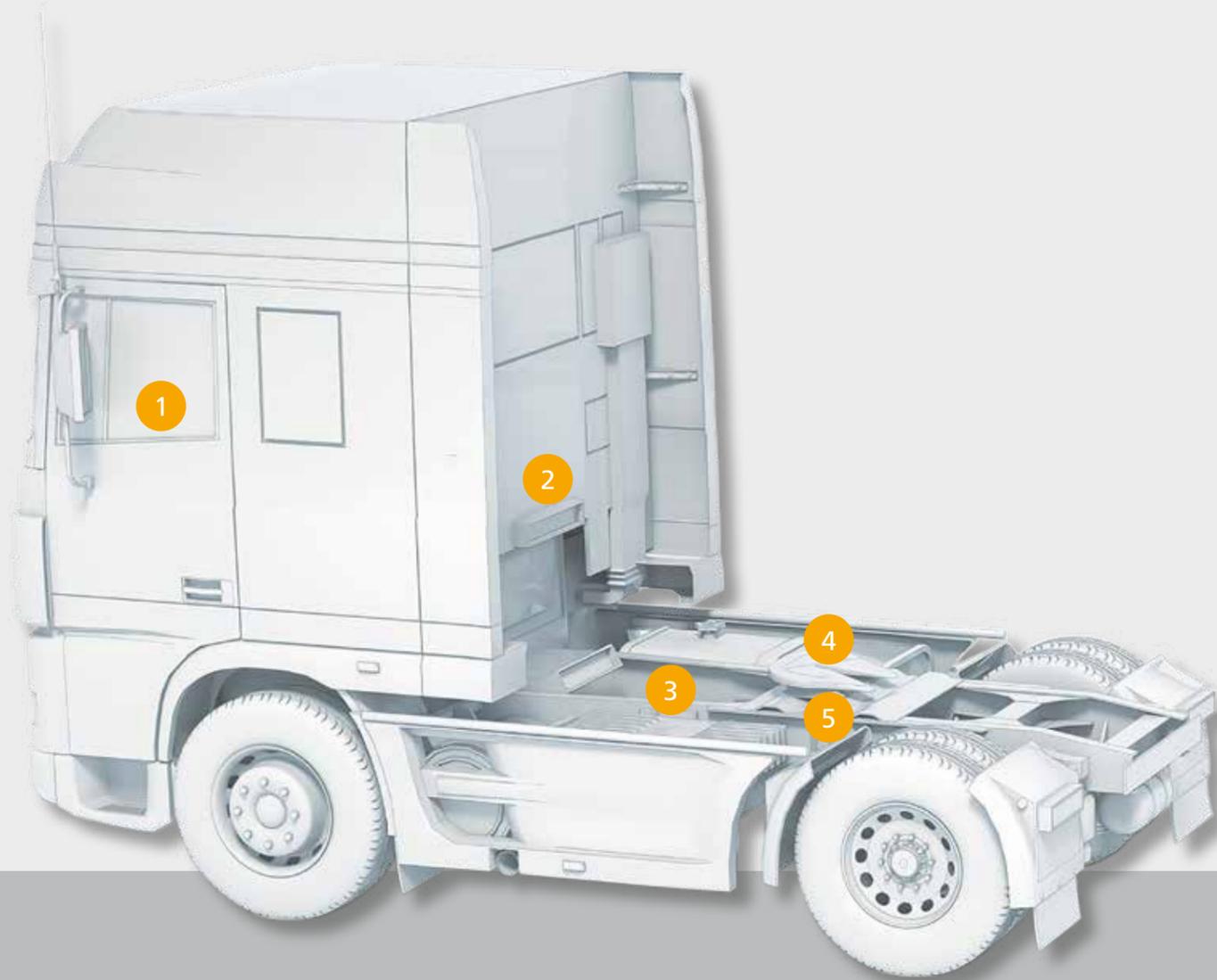


SAF INTRA CD TRAK

SAF TRAK

RECOMMENDED
TECHNICAL EQUIPMENT FOR THE
TRACTOR UNIT



- 1 Rocker switch with control light warning lamp
- 2 CAN BUS / Body Builder Module
- 3 Power take off / hydraulic pump
- 4 2-line hydraulic system
- 5 Tipping valve



Please follow installation instructions

HYDRAULIC PUMP / POWER TAKE OFF

The hydraulic pressure and available volume are the parameters governing the performance of the system, dependently of the pump selected, power take off transmission and truck engine speed. The system is designed for a maximum of up to 200 l/min.

HYDRAULIC PUMP

- **Pressure** 350 bar constant use (recommended) – 250 bar (min. recommendation)
- **Displacement** We recommend a calculation by SAF-HOLLAND

POWER TAKE OFF

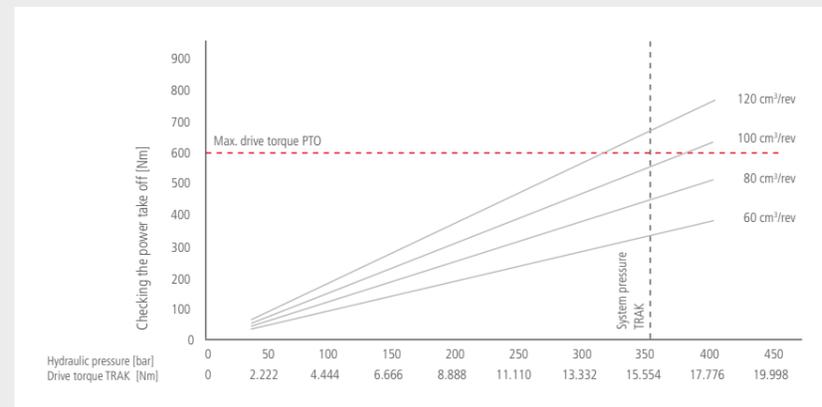
- **Model** Gearbox side or engine side
- **Torque**

REQUIRED TORQUE POWER TAKE OFF

PRESSURE bar	DISPLACEMENT ccm/rev	81	101
		250	321 Nm
350		450 Nm	561 Nm

- **Output** Maximum permissible output values must not be exceeded. (See manufacturer's specifications)

CHECKING POWER TAKE OFF (example for max. torque 600 Nm)



For optimal system performance, we recommend a calculation by SAF-HOLLAND in advance.

The SAF INTRA CD TRAK must be operated in accordance with the manufacturer's instructions for the use of the power take off and hydraulic pump.

ELECTRIC SYSTEMS

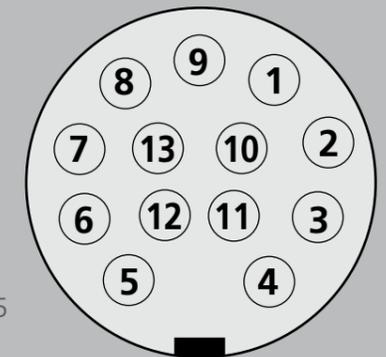
The additional electrical equipment of the tractor unit is needed to control the system safely from the tractor unit.

- **Rocker switch** with 2 switch positions (0 V – OFF / 24 V – ON), 2 x ON / OFF
- **Status lamp** 24 V (green)
- **Error lamp** 24 V (yellow)
- **Body Builder Module** ISO 11898 high-speed-CAN / 5 V base / 250 kBaud
- **CAN BUS** must provide the following information:
 - wheel-based vehicle speed
 - accelerator pedal position
 - brake switch
 - transmission current gear
 - clutch pedal switch

Especially for manual gearboxes, please check the availability of the relevant CAN BUS data for gearbox information.

Connection of the semitrailer:

- Use of a separate pin connector, 13-PIN-ADR socket
- Cable for CAN signal according to SAE J1939-11 or SAE J1939-15



CONTACT NO.	DESCRIPTION	CROSS SECTION [mm²]
1	CAN_L	
2	CAN_H	
3	Air Valve -	1
4	Air Valve +	1
5	Status Lamp	1
6	Error Lamp	1
7	Reserved for future allocaticon	
8	Reserved for future allocaticon	
9	Reserved for future allocaticon	
10	+24 V via ignition lock	1,5
11	0V return to battery-	1,5
12	Assist Switch	1
13	Reserved for future allocaticon	1



HYDRAULIC SYSTEM – TANK – LINES – OIL

Pressure and return flow connector (2-line hydraulics)

- **Tank** Max. volume tipping cylinder + 50 l
(Recommendation: min. 180 l oil – the more oil, the better the oil cooling)
- **Return flow filter** With filter rating $\beta_{\leq 25} \mu\text{m}$
- **Tubes** Inner diameter of pressure line: 20 mm (or greater)
Inner diameter return flow line: 25 mm (or greater)
Compression strength must be complied with
- **Hydraulic coupling** Inner diameter pressure line as tube or greater
Inner diameter return flow line as tube or greater
Compression strength must be complied with
Non-interchangeable connectors for flow and return must be used
- **Hydraulic oil type** HLP according to DIN 51524-2 or HV according to DIN 51524-3 or
HLPD according to DIN 51524-2 or HVLP according to DIN 51524-3
or HEES according to ISO 15380 or e.g. Class 32 or 46
- **Hydraulic oil viscosity** The viscosity according to DIN 51519 must be 15 - 380 cSt
- **Hydraulic oil purity** 22/18/15 according to ISO 4406 or
Class 9 according to NAS 1638

PNEUMATIC VALVES

Two pneumatic valves are needed to control the SAF INTRA CD TRAK.

- 2/2-way air valve (24 V) NW4.0
- Or valve NW4.0

TIPPING VALVE

Two-step tipping valve recommended for

- a) Low pressure tipping cylinders or when
- b) SAF INTRA CD TRAK is to be operated at more than 250 bar:

- Tipping valve comparable with Hyva HT 2220 with
 1. Pressure step for tipping cylinder (e.g. 150 bar) and
 2. Pressure step for SAF INTRA CD TRAK (e.g. 350 bar)
- Use of a non-locking air provider for tipping function

TIPPING VALVE	PRESSURE
Single step	150 bar
Single step	250 bar
Two step	150 bar / 250 bar
Two step	150 bar / 350 bar
Two step	250 bar / 350 bar

Not suitable
↓
optimal



XL-AA11920SL-en-DE Rev D - 0620 - Amendments and errors (see text) © SAF-HOLLAND GmbH



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safholland.com

SAF-HOLLAND GmbH

Hauptstraße 26 - 63856 Bessenbach - Germany

Tel +49 6095 301-0 - info@safholland.de