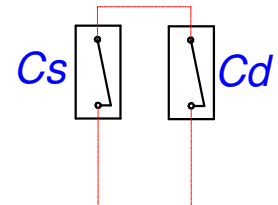


BRAKE WEAR



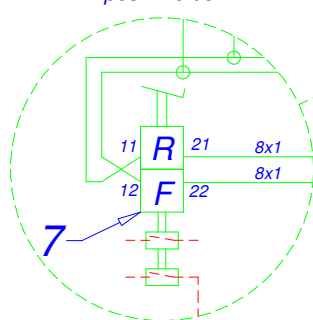
connected "in series" with the brake wear cable for the drive axle

LEGENDA

Cs - CONTACT ON LEFT CALIPER
(OPEN WHEN PADS ARE WORN)

Cd - CONTACT ON RIGHT CALIPER
(OPEN WHEN PADS ARE WORN)

Version with Pipes inversion



LEGEND

Original components:

- 1 - A.P.U. air dryer
cut-in pressure: 9,5 bar
cut-off pressure: 11,2 bar
opening pressure: $\leq 7,5 + 0,2$ bar (port 21 and 22)
opening pressure: $\leq 8,0$ (port 23)
static closing pressure: $6,5 \pm 0,5$ (port 21 and 22)
static closing pressure: $\geq 6,5$ (port 23)
static closing pressure: $\geq 5,5$ (port 24)
- 2 - Single cylinder compressor 225 cc (optional 360 cc).
- 3 - Air tank 20 l front axle - app. CE.
- 4 - Air tank 20 l rear axle - app. CE.
- 5 - Spurge valve.
- 6 - Pressure control take-off.
- 7 - Pedal - dual distribution brake command autolimit $7.6 \text{ bar} \pm 0.3 \text{ bar}$ or $9.2 \pm 0.5 \text{ bar}$.
- 8 - Front axle brake chambers 22".
- 9 - Drive axle brake chamber combined, 18/27".
- 10 - Hand distributor for brake command.
- 11 - Relay valve.
- 12 - Switch indicator low pressure - 6.6 ± 0.2 bar.
- 13 - A.B.S. modulator.
- 14 - Double stop valve.
- 15 - Valve for A.S.R. / E.S.P. (optional).
- 16 - Check valve.
- 17 - Pressure relief valve (8.5 bar) - with A.S.R. / E.S.P. (optional).
- 18 - Double pressure sensor.
- 19 - Safety valve (optional).
- 20 - Air tanks for suspension.
- 21 - Pressure sensor.

LEGEND

Additional component for the 3rd rear axle:

a - Air tank 20 l with spurge valve.

b - Selector valve - utilizing Pmin.

c - Selector valve - utilizing Pmax.

d - Realy valve.

e - Brake cylinder with membrane type 20".

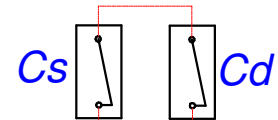
u - Reduction valve (1,5:1).

Suspension and services layout: see page 3/3

Disegnato da L. Tognollo	Controllato da	Data 23.12.2014	Scala	Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione	Modifiche Formato disegno A3 UNI 936
 S.T. System Truck S.p.A. via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376 696809 - fax +39 0376 1760180				TITOLO BRAKING LAYOUT - 3RD REAR ADDED AXLE 7.5T IVECO ML180E..P-FP E6 4X2 - WITHOUT TRAILER MASS N° DISEGNO 25.01.05.0033	
Disegno di proprietà della S.T. System Truck S.p.A. - Vietata la riproduzione non autorizzata. Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.				Modifica 1 del 11.02.2020	Foglio 1/3

1 Cambiato valore taglio da 1.5 a 1.15 - valvola pos. "u" foglio 3/3 - Aggiunta pmin sollevatore - 11.02.2020 P.M.

BRAKE WEAR

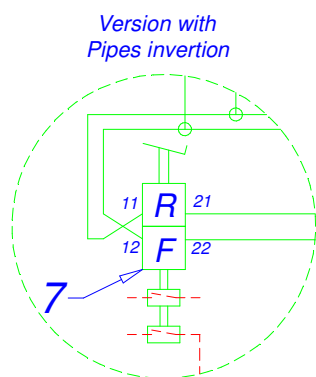


connected "in series" with the brake wear cable for the drive axle

LEGENDA

- Cs - CONTACT ON LEFT CALIPER
(OPEN WHEN PADS ARE WORN)
Cd - CONTACT ON RIGHT CALIPER
(OPEN WHEN PADS ARE WORN)

Version with
Pipes inversion



LEGEND

Original components:

- 1 - A.P.U. air dryer
cut-in pressure: 9,5 bar
cut-off pressure: 11,2 bar
opening pressure: $\leq 7,5 + 0,2$ bar (port 21 and 22)
opening pressure: $\leq 8,0$ (port 23)
static closing pressure: $6,5 \pm 0,5$ (port 21 and 22)
static closing pressure: $\geq 6,5$ (port 23)
static closing pressure: $\geq 5,5$ (port 24)
- 2 - Single cylinder compressor 225 cc (optional 360 cc).
- 3 - Air tank 20 l front axle - app. CE.
- 4 - Air tank 20 l rear axle - app. CE.
- 5 - Spurge valve.
- 6 - Pressure control take-off.
- 7 - Pedal - dual distribution brake command autolimit 7.6 bar $\pm$ 0.3 bar or 9.2 $\pm$ 0.5 bar.
- 8 - Front axle brake chambers 22".
- 9 - Drive axle brake chamber combined, 18/27".
- 10 - Check valve.
- 11 - Hand distributor for brake command.
- 12 - Relay valve.
- 13 - Switch indicator low pressure - 6.6 ± 0.2 bar.
- 14 - A.B.S. modulator.
- 15 - Double stop valve.
- 16 - Valve for A.S.R. / E.S.P.
- 17 - Pressure relief valve (8.5 bar).
- 18 - Double pressure sensor.
- 19 - Safety valve (optional).
- 20 - Air tank 15 l trailer - app. CE.
- 21 - Trailer control valve (pred. 0,2 bar).
- 22 - Coupling heads with pipe coli (vers. ISO).
- 23 - Air tanks for suspension.
- 24 - Pressure sensor.
- 25 - EVSC valve (optional).

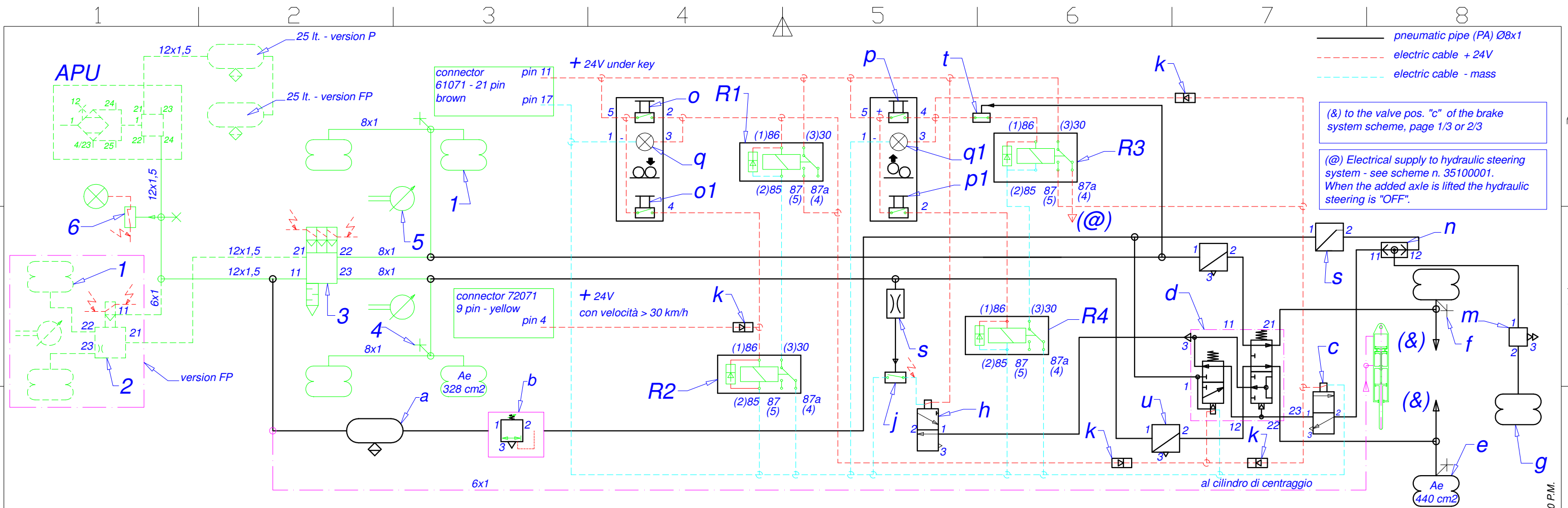
LEGEND

Additional component for the 3rd rear axle:

- a - Air tank 20 l with spurge valve.
- b - Selector valve - utilizing Pmin.
- c - Selector valve - utilizing Pmax.
- d - Realy valve.
- e - Brake cylinder with membrane type 20".
- f - Pressure control take-off.
- u - Reduction valve (1,5:1).

Suspension and services layout: see page 3/3

Disegnato da L. Tognollo	Controllato da	Data 23.12.2014	Scala	Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione	Modifiche Formato disegno A3 UNI 936
 S.T. System Truck S.p.A. via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376 696809 - fax +39 0376 1760180				Disegno di proprietà della S.T. System Truck S.p.A. - Vietata la riproduzione non autorizzata.	TITOLO BRAKING LAYOUT - 3RD REAR ADDED AXLE 7.5T IVECO ML180E..P-FP E6 4X2 - WITH TRAILER MASS N° DISEGNO 25.01.05.0033 Modifica 1 del 11.02.2020 Foglio 2/3



LEGEND

- 1 - Pneumatic suspension bellows.
- 2 - ECAS electro-valve (front axle).
- 3 - ECAS electro-valve (driving axle).
- 4 - Pressure control take-off.
- 5 - Level sensors.
- 6 - Pressure switch (6.6 ± 0.2 bar).
- Additional component for the 3rd rear axle:
 - a - Air tank 20 l - approved CE.
 - b - Limitor valve (6 bar).
 - c - Electro-valve N.C. (lift axle control) (°).
 - d - Two section deviation valve for axle lifting and load transfer with electrovalve N.O. (°) (+).
 - e - Air suspension bellow for 3rd axle.
 - f - Pressure control take-off.
 - g - Air bellow for lifting device.
 - h - Electro-valve N.O. (load transfer control) (+).
 - j - Pressure switch (N.O.) load transfer control - 8.4 bar (+).
 - k - Diode.
 - m - Quick exhaust.
 - n - Selector valve - utilizing Pmax.
 - o - N.O. button in cabin for load transfer (+).
 - o1 - N.O. button in cabin for load transfer exclusion (+).
 - p - N.O. button in cabin for axle lifting (°).
 - p1 - N.O. button in cabin for axle lifting exclusion (°).
 - q - LED (engage load transfer on 3rd axle).
 - q1 - LED (engage lifting Off on 3rd axle).
 - r1 - Electric relay N.O. - (engage load transfer).
 - r2 - Electric relay N.C. - (exclude load transfer).
 - r3 - Electrical timer relay (delay detachment after 15"), contact N.O. - (insertion of rear axle lift function).
 - r4 - Electric relay N.C. - (exclude axle lifting from 3rd axle)
 - s - Pressure limiting valve.
 - t - Pressure switch (N.C.) - voluntary 3rd axle lifting Off - 6.3 bar.
 - u - Reduction valve (1,15:1).

(°) Lifting device function: when the "p" rocker switch is pressed, the relay "R3" is energized (auto-set) , commands the electrovalves "c" and "d": the rear axle lifts. If the pressure in the drive axle suspension reaches 6,3 bar or more, the pressure switch "t" opens and the auto-set circuit of the relay "r" is interrupted, and after a 15 seconds delay the relay turns off: the axle drops to the ground. The voluntary exclusion of the axle lift function is controlled by the switch "p1" and by its relay "R4".

(+) Load transfer device function: when the "o" rocker switch is pressed, the relay "R1" is energized (auto-set) and commands the deviator "d": rear axle suspension air bellows are set into outlet modality. When the established overload limit on drive axles is reached, the "j" pressure switch energizes the electrovalve "h" that closes the air outlet. If the speed increases, at the limit of 30 km/h the system is switched off by the "R2" relay. The voluntary exclusion of the load transfer is controlled by the switch "01" and its relay "R2".

Braking layout: see page 1/3 (without trailer mass) or 2/3 (with trailer mass)

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S.T. System Truck S.p.A. via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376 696809 - fax +39 0376 1760180				Disegno di proprietà della S.T. System Truck S.p.A. - Vietata la riproduzione non autorizzata. Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.	
TITOLO PNEUMATIC LAYOUT - 3RD REAR ADDED AXLE 7.5T IVECO ML180E..P-FP E6 4X2 - automatic lift axle and load transfer				N° DISEGNO 25.01.05.0033	
				Modifica 1 del 11.02.2020	Foglio 3/3