

## **Test Report No. 90107820-28-1/01**

### **about a component test in according to 77/389/EWG**

- |  |  |
|--|--|
| 1. Manufacturer:   | Walterscheid GmbH<br>(former Cramer Kupplungen GmbH & Co.KG)                 |
| 2. Component type:   | Towing device  |
| 3. Type:   | KU 600   |
|  | Versions: KU 601NB32, Pin diameter Ø32 mm<br>KU 601NB35, Pin diameter Ø35 mm |
| 4. Material of coupling pin:   | S355J2 (St 52-3)   |
| 5. Permissible total weight of the vehicle to be towed to which the device is attached (without trailer load): | 20.000 kg, for KU 601NB32<br>25.000 kg, for KU 601NB35                       |
| 6. Test sample, version:   | KU 601NB32   |
| 7. Test results  |  |
| 7.1. Identification of test sample:  | 90107820/1   |
| 7.2. Strength test   |  |

Two static tests were performed,  
on 12.07.01:

- |                               |          |
|-------------------------------|----------|
| a) Positive towing direction: | + 220 kN |
| b) Negative towing direction: | - 220 kN |

This test did not show any breaks, cracks or other external damage or excessive permanent deformations that could affect the function of the device.

The comparison of the tested device KU 601NB32 with the version KU 601NB35 has shown that even with this design (pin diameter Ø35 mm), even with the higher characteristic value, sufficient dimensional stability can be expected.

*type* : KU 600  
*manufacturer* : Walterscheid GmbH  
*test report No.* : 90107820-28-1/01

*date*  
06.12.2023  
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8. Attachments:  
Datasheet of manufacturer

Essen, 06.12.2023 (17.07.2001)  
EP-0249/23 / Cr

Technical Service for mechanical  
coupling devices

  
Dipl.-Ing. W. Conrads





# MANOEUVRING AND TOWING COUPLING SERIES KU 600

## 1. TECHNICAL DATA AND DESIGNATIONS:

### OPERATING RANGE:

Towing couplings are only used for towing inoperable vehicles and in exceptional cases for manoeuvring purposes. The couplings largely correspond to DIN 74056. Use for trailer operation is not permitted. The couplings are usually rigidly attached to the front end of the vehicle in the middle. They can also be attached to the rear end of the vehicle, but not for use as a trailer.

Towing couplings do not require type approvals, but all Walterscheid types have been horizontally statically tested by RWTÜV in accordance with Directive 77/389 / EC. The couplings are not intended to accept vertical loads.

### TYPES AND CHARACTERISTIC VALUES:

(see figure 1)

Types, admissible loads at the coupling point and dimensions in accordance with the following table:

Type	Adm. to- wing load	Adm. total weight towing vehicle	pin-Ø dim. C	Flange- size	Clevis height	Couplig point	Weight
	[t]	[t]	[mm]		[mm]	[mm]	[kg]
KU601NB32	20	40	32	3	96	69	4.7
KU601NB35	25	50	35	3	96	69	4.8
KU602NB35	25	50	35	4	104	71.5	7.1
KU603NB35	25	50	35	5	104	71.5	7.1
KU603NB35S	50	100	35	5	104	71.5	7.1

Table 1



### NOTE:

If the valid national approval regulations of the respective country of use require additional official approvals for using these parameters, such approvals must be applied for.

### FLANGES:

(see figure 1)

Flange size	Hole pattern A x B	Hole dia. C	Fastening screws	Flange dimensions D x E
	[mm]	[mm]		[mm]
3	120x55	15	M 14	155x96
4	140x80	17	M 16	200x140
5	160x100	21	M 20	200x140

Table 2

### TRAILER RINGS:

All versions are suitable for connection to trailer rings according to DIN 74053 (ISO 1102, 50 mm), DIN 74054 (ISO 8755, 40 mm) and VG 74059 (trailer ring NATO).

The use of tow bars with the above towing rings and tow ropes are possible.