HPH GmbH

Handel-Projektierung-Hydrauliksysteme
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Bestellangaben (HOW TO ORDER)

MVP30-28D – 04S5 – MD/MB-N

Pumpenvolumen/u Drehrichtung	Antriebswelle	Pumpenflansch	Hydraulikanschluss Seite
Vg = 28/34 cm³/u	Vielkeilwelle	SAE“B“	In = SAE11/4“ / Out = SAE 3/4“
S = linksdrehend	13 Zähne	2 Loch-Flansch	L= seitlich
D = rechtsdrehend			P = hinten
N = Dichtung NBR (Buna)			

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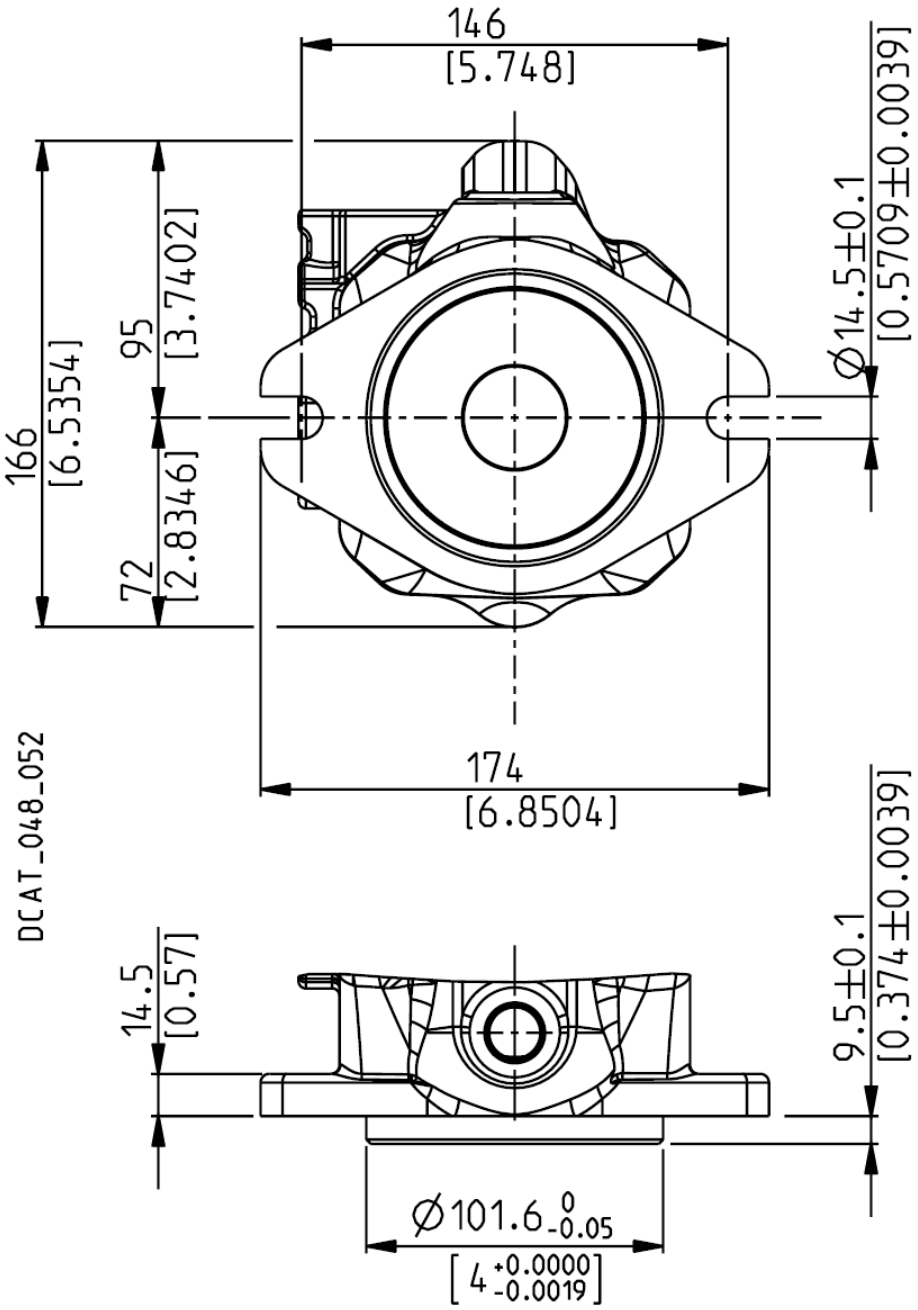
Technische Daten

Pumpenflansch S5

SAE "B" 2 HOLES **S5**

Conforms to SAE J744



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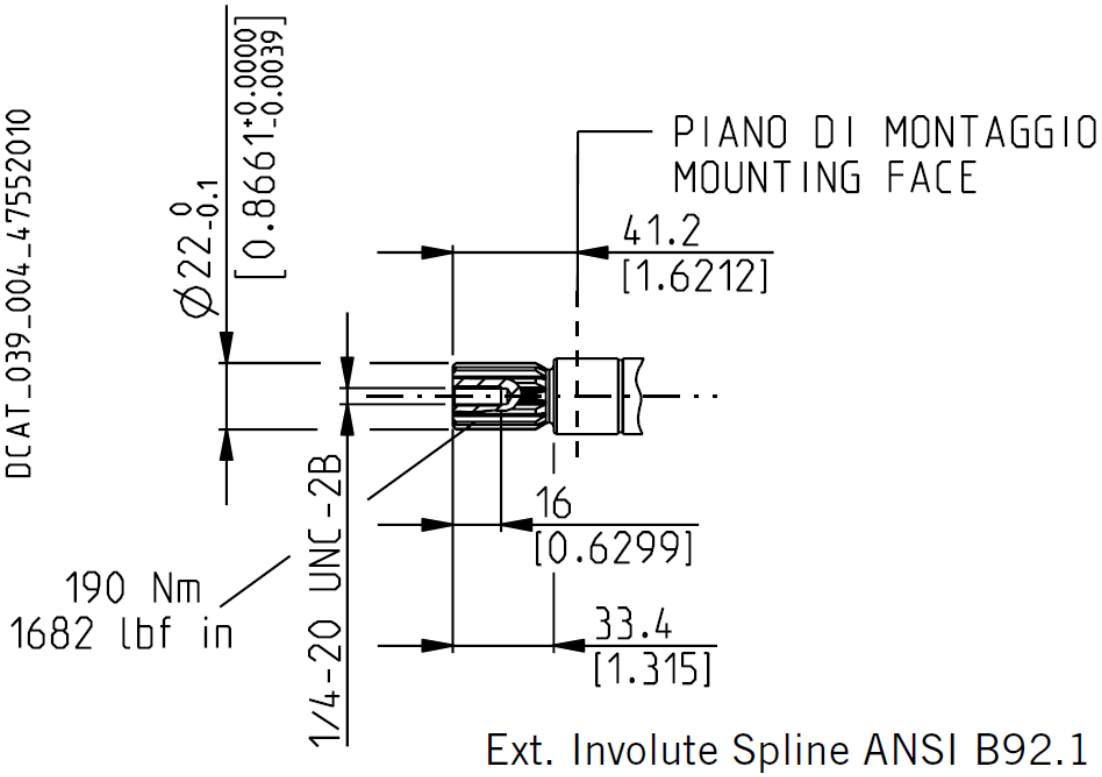
Technische Daten

Pumpenwelle 04

SAE “B” SPLINE 04

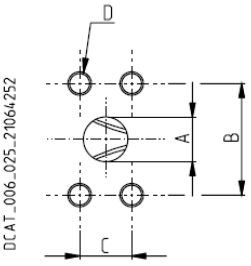
Mounting face refers to flange code **S5**



Ext. Involute Spline ANSI B92.1
with major diameter modified
13 teeth - 16/32 Pitch - 30 deg
Flat root - Side fit - Class 5

Hydraulikanschluss MD / MB

CODE	Nominal size	A mm (in)	B mm (in)	C mm (in)	D Thread Depth mm (in)	Nm (lbf in)	Nm (lbf in)
MB	3/4”	20 (0.7874)	47,6 (1.8740)	22,2 (0.8740)	M 10 17 (0.6693)	—	45 +2,5 (398 ÷ 420)
MC	1”	25,4 (1.0000)	52,4 (2.0630)	26,2 (1.0315)	M 10 17 (0.6693)	—	30 +2,5 (266 ÷ 288)
MD	1” 1/4	32 (1.2598)	58,7 (2.3110)	30,2 (1.1890)	M 10 17 (0.6693)	20 +1 (177 ÷ 186)	—
ME	1” 1/2	38,1 (1.5000)	69,8 (2.7480)	35,7 (1.4055)	M 12 20 (0.7874)	30 +2,5 (266 ÷ 288)	—
MF	2”	51 (2.0079)	77,8 (3.0630)	42,9 (1.6890)	M 12 20 (0.7874)	30 +2,5 (266 ÷ 288)	—



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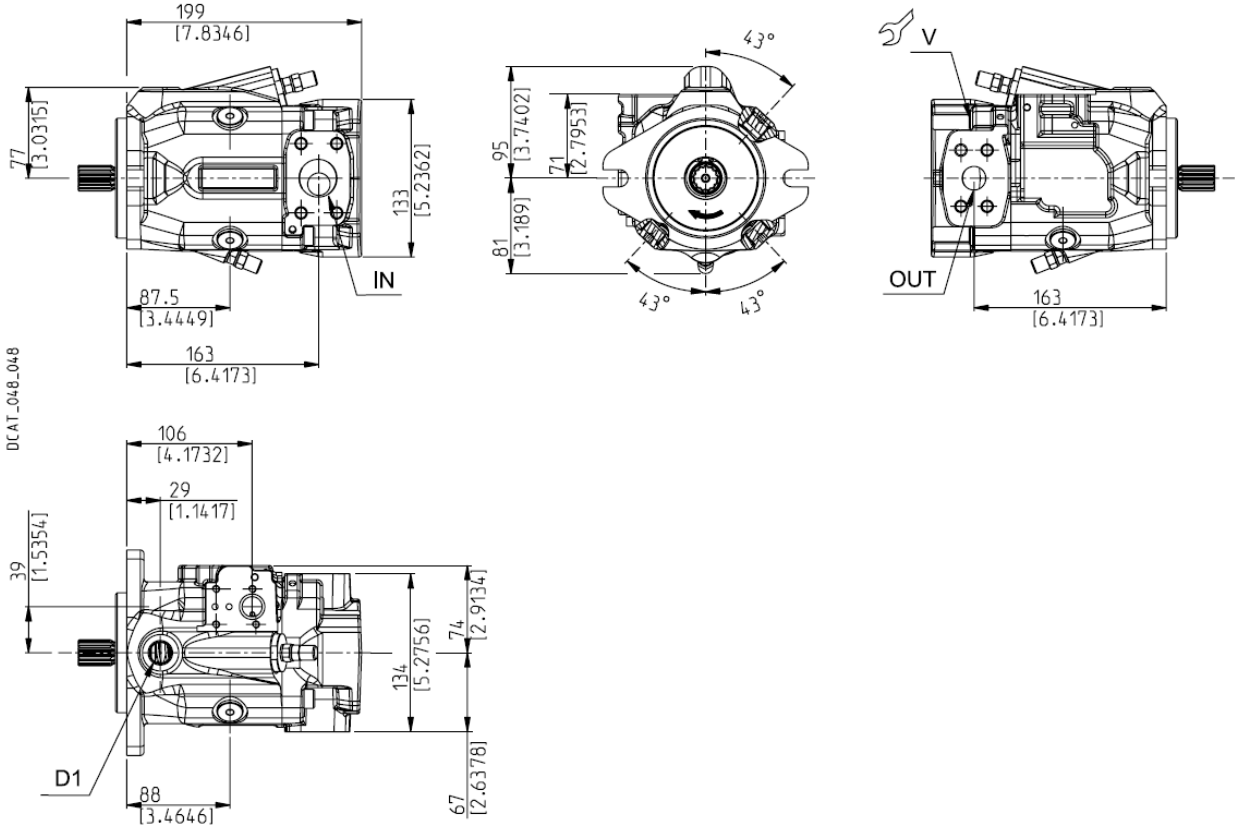
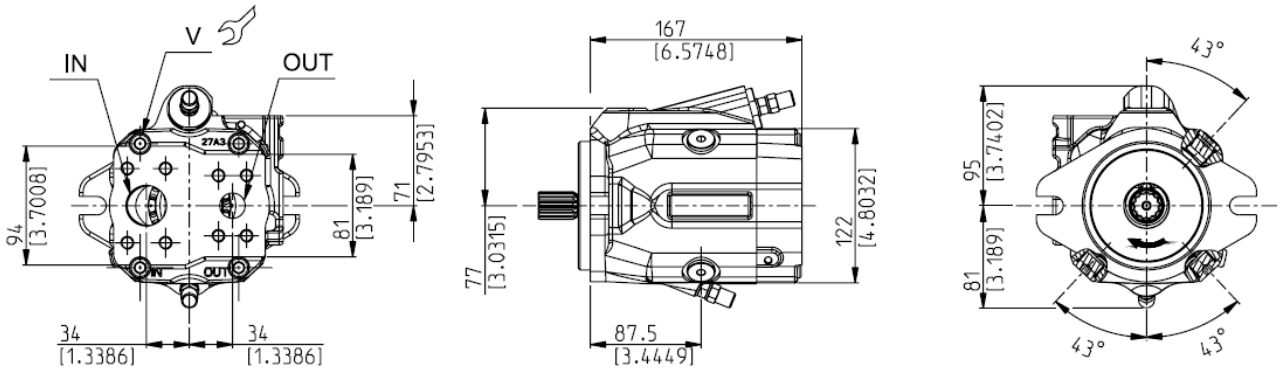
Pumpenabmaß

MVP30 SIDE PORTS - DIMENSIONS L



MVP30 REAR PORTS - DIMENSIONS P



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Leistungsdaten 28-84

HL or HLP mineral oil based hydraulic fluid to DIN 51524

Pump type MVP			**30·28**	**30·34**	**48·45**	**48·53**	**60·60**	**60·72**	**60·84**
Max. displacement (theor.) V_{max}	cm^3/rev (in^3/rev)		28 (1.74)	34,8 (2.12)	45 (2.75)	53,7 (3.28)	60 (3.66)	72 (4.39)	84,7 (5.17)
Inlet pressure	bar abs. (in Hg)	min.				0.8 (24)			
	bar abs. (psi)	max.				25 (363)			
Max. outlet pressure p_{max}	bar (psi)	continuous	280 (4060)	250 (3625)	280 (4060)	250 (3625)	280 (4060)	280 (4060)	250 (3625)
		intermittent	315 (4568)	280 (4060)	315 (4568)	280 (4060)	315 (4568)	315 (4568)	280 (4060)
		peak	350 (5075)	315 (4568)	350 (5075)	315 (4568)	350 (5075)	350 (5075)	315 (4568)
Max. drain line pressure	bar abs. (psi)					1,5 (22)			
Max. speed n_{max}	min^{-1}	@ V_{max} (1)	3500	2900	3000	2500	3000	2700	2300
Max. delivery (theor.)	l/min (US gpm)	@ n_{max}	98 (25.9)	101 (26.7)	135 (35.7)	134 (35.4)	180 (47.6)	194 (51.3)	195 (51.5)
		@ 2000 min^{-1}	56 (14.8)	70 (18.5)	90 (23.8)	107 (28.3)	120 (31.7)	144 (38.0)	169 (44.7)
		@ 1500 min^{-1}	42 (11.1)	52 (13.7)	68 (18.0)	81 (21.4)	90 (23.8)	108 (28.5)	127 (33.6)
Max. power (theor.) ($\Delta p = p_{max}$ cont.)	kW (HP)	@ n_{max}	45,7 (61.2)	42,1 (56.4)	63 (84.4)	55,9 (74.9)	84 (112.6)	90,7 (121.5)	81,2 (108.8)
		@ 2000 min^{-1}	26,1 (35.0)	29 (38.9)	42 (56.3)	44,8 (60.0)	56 (75.0)	67,2 (90.0)	70,6 (94.6)
		@ 1500 min^{-1}	19,6 (26.3)	21,8 (29.2)	31,5 (42.2)	33,6 (45.0)	42 (56.3)	50,4 (67.5)	52,9 (70.9)
Max. torque (theor.)	Nm (lbf in)	@ p_{max} cont.	124,8 (1105)	138,5 (1226)	200,5 (1775)	213,7 (1891)	267,4 (2367)	320,9 (2840)	337 (2983)
		@ 100 bar (1450 psi)	44,6 (395)	55,4 (490)	71,6 (634)	85,5 (757)	95,5 (845)	114,6 (1014)	134,8 (1193)
Moment of inertia	kgm^2 (ft^2 lbs)		0,002 (0.05)	0,002 (0.05)	0,003 (0.07)	0,003 (0.07)	0,008 (0.19)	0,008 (0.19)	0,008 (0.19)
Fill volume	l (US gallons)		0,85 (0.22)	0,85 (0.22)	1 (0.26)	1 (0.26)	1,3 (0.34)	1,3 (0.34)	1,3 (0.34)
Mass (approx.)	kg (lbs)		15 (33.1)	15 (33.1)	19 (41.9)	19 (41.9)	22 (48.5)	22 (48.5)	22 (48.5)
Seals					N= Buna		V= Viton		
Operating temperature	°C (°F)	min.			-25 (-13)		-25 (-13)		
		max. cont.			80 (176)		110 (230)		
		max. peak			100 (212)		125 (257)		

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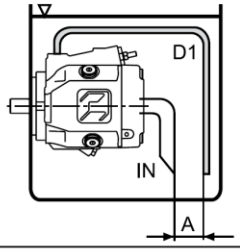
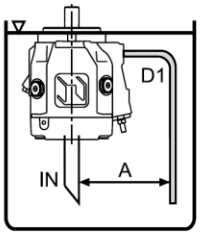
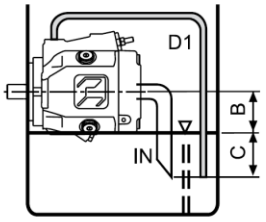
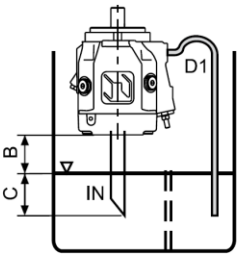
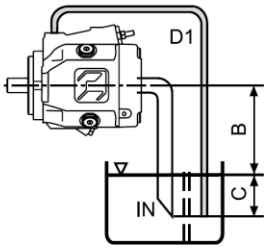
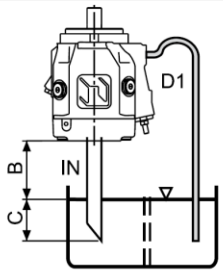
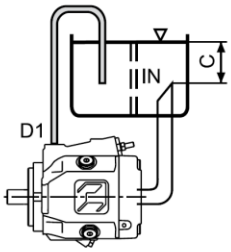
Leckölanschluss 28-84

HORIZONTAL MOUNTING		VERTICAL MOUNTING	
	**Arrangement inside the tank.** Minimum oil level equal or above the pump mounting face. A ≥ 200 mm (7.874 in)		**Arrangement inside the tank.** Minimum oil level equal or above the pump mounting face. A ≥ 200 mm (7.874 in)
	**Arrangement inside the tank.** Minimum oil level below the pump mounting face. Min. inlet pressure= 0,8 bar abs (24 in Hg) B ≤ 800 mm (31.4961 in) C = 200 mm (7.874 in)		**Arrangement inside the tank.** Minimum oil level below the pump mounting face. Min. inlet pressure= 0,8 bar abs (24 in Hg) B ≤ 800 mm (31.4961 in) C = 200 mm (7.874 in)
	**Arrangement outside the tank above oil level.** Min. inlet pressure= 0,8 bar abs (24 in Hg) B ≤ 800 mm (31.4961 in) C = 200 mm (7.874 in)		**Arrangement outside the tank above oil level.** Min. inlet pressure= 0,8 bar abs (24 in Hg) B ≤ 800 mm (31.4961 in) C = 200 mm (7.874 in)
	**Arrangement outside the tank below oil level.** C = 200 mm (7.874 in)		

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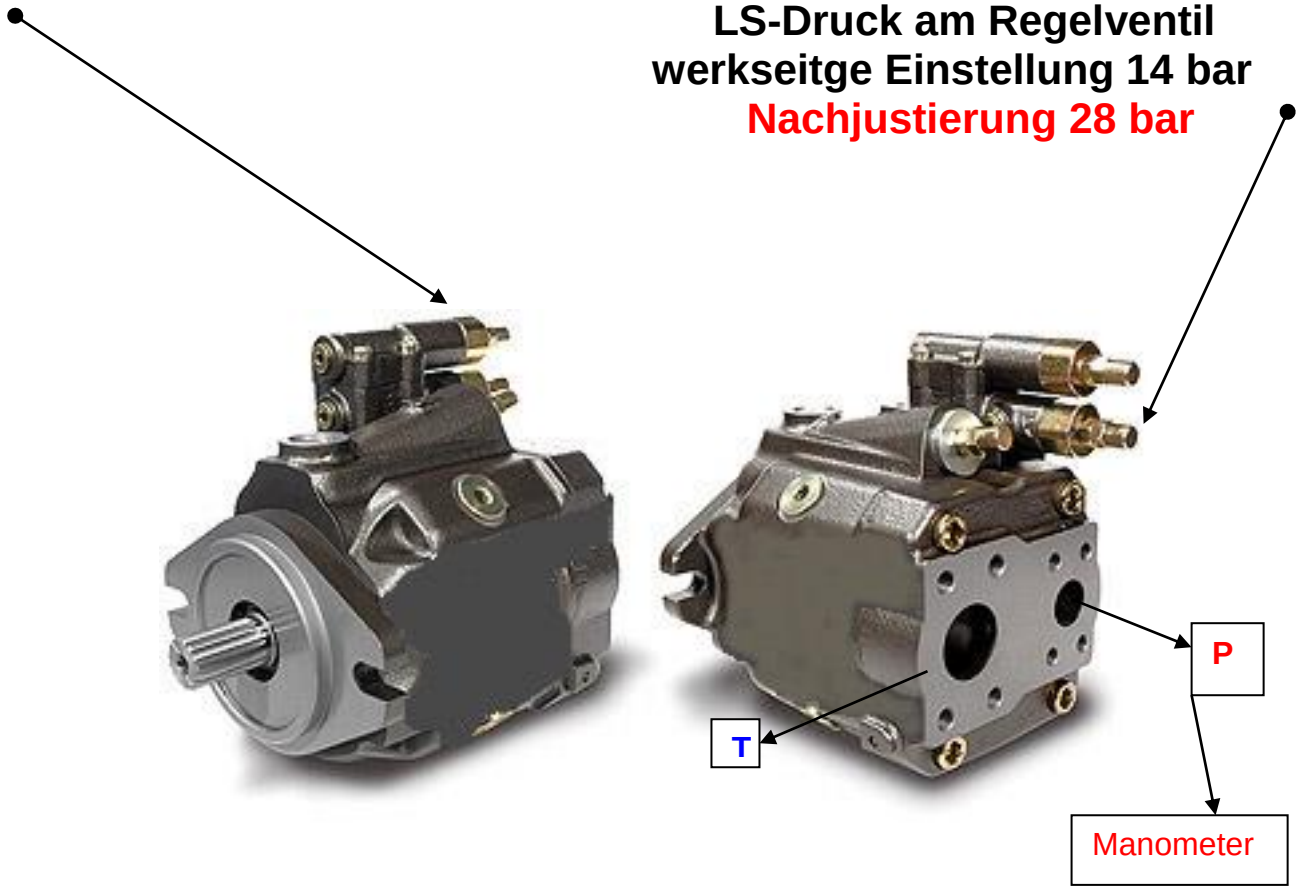
Druckabschneidung
werkseitige
Druckeinstellung 250 bar

LS-Druck am Regelventil
werkseitge Einstellung 14 bar
Nachjustierung 28 bar



Bitte die werkseitige Grundeinstellung von 250 bar nicht verstellen.

Wichtig ist der LS-Druck von 28 bar.
Abgriff für LS-Justierung nur auf der P-Pumpendruckseite (Manometer).

Montage:
1. Schutzhutschraube (Schlüssel SW13) entfernen
2. Konterschraube (Schlüssel SW13) lösen.
3. Innenstift-Schraube auf LS-Wert einjustieren.