GEA Tuchenhagen

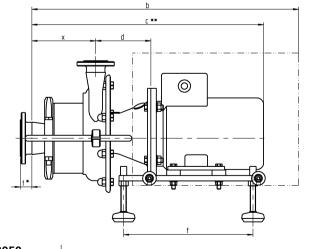
Standard version, centrifugal pump, type TPS 3050, 2-pole (n=3.500 min⁻¹), 60 Hz

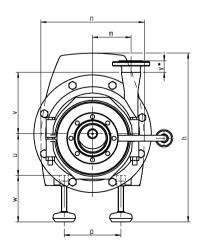


Materials	Pump housing, 316L (1.4404), deep-drawn
	impeller, 316L (1.4409), precision casting
Connections	DIN 11864-2 aseptic grooved flange (flange connection optional)
Nominal width of connections	Suction port (SS), DN 65; Pressure port (DS), DN 50
Mechanical seal	Single-acting, material C / SIC / EPDM
Static seals	EPDM (FDA, USP Class VI)
Equipment	Stainless steel protection hood and base frame with
	height-adjustable calotte-type feet
Motor	Standard IEC motor, 3-phase 460V/±5%, IM B35, IP55, ISO class F,
	incl. thermistor, IE2
Documentation	Operating instructions, declaration of conformity
Flow rate	max. 69 m³/h
Pump head	max. 95 m w.c.
Housing pressure	max. 16 bar

Code	Т	Р	S	3	0	5	0	2	6	0				D	N	В	F	K	0	6	5	0	5	0	Е	K	Е	-	1	-	J	J	-
Position				1				2	[]	3	4		5		6		7			8			9		1	0	11	12	13	14	15	16	17

Example	Pos	Designation	Code of selection	on characteristics		Price
TPS3050	1.	Туре	TPS 3050			
2	2.	Speed	2 = 2 pole			
60	3.	Frequency	60 = 60 Hz			
140	4.	Impeller	140 = 140 mm	150 = 150 mm	160 = 160 mm	170 = 170 mm
			175 = 175 mm	180 = 180 mm	185 = 185 mm	190 = 190 mm
			195 = 195 mm	200 = 200 mm	205 = 205 mm	210 = 210 mm
036	5.	Motor power	036 = 3,6 kW ((BG 100L)		5.915,00
			045 = 4,5 kW ((BG 112M)		6.044,00
			063 = 6,3 kW ((BG 132S)		6.683,00
			086 = 8,6 kW ((BG 132S)		6.901,00
			110 = 11,0 kW ((BG 132M)		7.075,00
			125 = 12,5 kW ((BG 132M)		7.837,00
			170 = 17,0 kW ((BG 160M)		8.474,00
			212 = 21,2 kW ((BG 160L)		8.900,00
			250 = 25,0 kW ((BG 160L)		9.672,00





Motor size	b	c**	d	f	h	m	n	р	t* u	v	w	x	у*
100L / 112M	722/729	617/624	134	335	404	103 277	160/190	25,5	89,5/101,5	165,5	85	161,5	25,5
132S / 132M	791	680/740	154	410	434	103 332	216	25,5	121,5	165,5	85	161,5	25,5
160M / 160L	1004	848/893	189	640	598	103 408	254	25,5	149,5	165,5	110	161,5	25,5

^(*) Dimensions t and y only apply to the aseptic grooved flange acc. to DIN 11864-2 for the relevant standard nominal width

^(**) Dimension c refers to our standard motors

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Options for TP and TPS series

Standard										D	N	В	F	Κ	-	-	-		-	Ε	K	Ε	-	1	-	J	J	-
Options						П		П	Π																			
Position		1		2	3		4		5		6		7			8		9		1	0	11	12	13	114	15	16	17

Example	Pos	Designation	Code of selection characteristic	:s			Sur	rcharge
	6.	Nominal width standard	DN = DIN 11850 OD = Zoll OD					
				DN 40, 5 65, 8	0, 100	DN 125, 150	OD 1,5", 2" 2,5", 3"	OD 4"
GSK	7.	Connection type *1)	BFK = Aseptic grooved flange DIN 11864-2 (standard)	0,0	0,00	0,00	*2)	*2)
			ASK = Aseptic flange connection DIN 11864-2, cpl.	76,0	00 108,00	185,00	*2)	*2)
			GO = Male part DIN 11851	-35,0	-40,00	-40,00	*2)	*2)
			GK = Pipe connection DIN 11851, cpl.	22,0	56,00	324,00	*2)	*2)
			TN = VARIVENT® grooved flange	-9,0	-4,00	116,00	73,00	198,00
			TK = VARIVENT® flange connection	on 46,0	73,00	272,00	128,00	278,00
			GSK = Aseptic male part DIN 11864-1	20,0	00 30,00	*2)	*2)	*2)
			AVK = Aseptic union DIN 11864-1, cpl.	135,0	00 176,00	*2)	*2)	*2)
			CO = TRI – Clamp analogous to DIN3276 / ISO2852		in DN not ava	ilable	46,00	157,00
			SMG = SMS male part		in DN not ava	ilable	62,00	226,00
			SMK = SMS connection cpl.		in DN not ava	ilable	113,00	391,00
	8.	Connection sizes		TP 1020				60,00
		suction side (SS)	050 = DN 50 200 = 2" OD	TP 1020	TP 2050			60,00
				TP 2030	TP 3050		_	
			065 = DN 65 212 = 2,5" OD	TP 1540 TP 2030	TP 2575 TP 3050	TP 7060		60,00
				TP 2050	TP 5060	TPS 30	50	
			080 = DN 80 300 = 3" OD	TP 1540	TP 3050	TP 706	0	60,00
				TP 2050	TP 5060			50.00
			100 = DN 100 400 = 4" OD	TP 8080	TP 16040			60,00
			125 = DN 125	TP 16040				60,00
	9.	Connection sizes	150 = DN 150 040 = DN 40 112 = 1,5" OD	TP 16040	TP 2030			60,00
	э.	Pressure side (DS)	040 - DN 40 112 = 1,5 OD	TP 1540	TPS 2030	TP 2575	5	60,00
		, ,	050 = DN 50 200 = 2" OD	TP 2030 TP 2050	TP 2575 TP 3050		30	60,00
				TP 5060		TP 8080)	60,00
			100 = DN 100 400 = 4" OD	TP 16040				60,00

^{*1)} Prices for TP 16040 on request

^{*2)} Versions available on request

Standard D N B F K - - - E K E - 1 - J J Options 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Example	Pos	Designation	Code of selection	characteris	stics			Sı	urcharge
						Т	P 1020	TP 2575	TPS 2030
						Т	P 1540	TP 5060	TPS 3050
						Т	P 2030	TP 7060	
						Т	P 3050	TP 8080	
								TP 16040	
PS	10.	Design /	Single-acting						
		Material of	EK = carbon / silicon carbid				0,00	0,00	0,00
		mechanical seal	EH = carbon / chrome moly				32,00	42,00	32,00
			ES = silicon carbide / silicon	carbide			65,00	140,00	65,00
			Single acting with flush						
			QK = with flush - carbon /	silicon carbide	2	!	515,00	684,00	515,00
			QH = with flush - carbon /	chrome molyk	odenum	!	547,00	726,00	547,00
			QS = with flush - silicon can	-			580,00	824,00	580,00
			Double-acting						
			PS = with flush - silicon car	bide / silicon d	carbide	1	259,00	1.326,00	1.259,00
F	11.	Static seals	E = EPDM (Standard)				0,00	0,00	0,00
			F = FKM				106,00	128,00	106,00
D	12.	Drainage	- = no drainage valve (stand				0,00	0,00	0,00
			D = drainage valve type VT			!	509,00	509,00	1.018,00
			C = with drainage connecti	ion TriClamp [ON 15 *3)	3	365,00	365,00	730,00
			(analogous to DIN 3276 / IS	SO2852)					
3	13.	Product contact	1 = Ra ≤ 3,2µm (Standard)				0,00	0,00	0,00
		Surfaces	3 = Ra ≤ 0,8µm electro-pol	ished		4	409,00	409,00	799,00
X	14.	Explosion protection	Motor power	1,1 kW	1,5 kW	2,2 kW	3,0 kW	4,0 kW	5,5 kW
		class*4)	- = without (standard)	0,00	0,00	0,00	0,00	0,00	0,00
			X = with ATEX	565,00	662,00	753,00	931,00	1.094,00	1.300,00
			(II2G Eex d IIB T4)						
			Motor power	7,5 kW	11,0 kW	15,0 kW	18,5 kW	22,0 kW	
			- = without (standard)	0,00	0,00	0,00	0,00	0,00	
			X = mit ATEX	1.468,00	1.787,00	2.229,00	2.561,00	3.803,00	
			(II2G Eex d IIB T4)						
J	15.	Stainless steel	Motor size	80	905	90L	100L	112U	1325
		protection	J = with (standard)	0,00	0,00	0,00	0,00	0,00	0,00
			N = without	-125,00	-125,00	-125,00	-147,00	-147,00	-273,00
			Motor size	160M	160L	200L	225M		
			J = with (standard)	0,00	0,00	0,00	0,00		
			N = without	-347,00	-347,00	-446,00	-446,00		
J	16.	Calotte-type frame	Motor size	80	905	90L	100L	112U	1325
			J = with (standard)	0,00	0,00	0,00	0,00	0,00	0,00
			N = without	-157,00	-157,00	-157,00	-179,00	-179,00	-189,00
			Motor size	160M	160L	200L	225M		
			J = with (standard)	0,00	0,00	0,00	0,00		
			N = without	-230,00	-230,00	-399,00	-399,00		
_	17.	Certificates	- = without (standard)						0,00
Z	1/.	Certificates							
Z	17.	Certificates	O = surface measurement	report *5)					25,00

^{*3)} Price containes 2 pieces for TPS Pumps

^{*4) 30} kW ATEX on request

^{*5)} Net- per pump, not deductable