

Technical data of the standard rotary actuators HSE 01 to HSE 06

Page 1 of 2
Status 2009-10-05

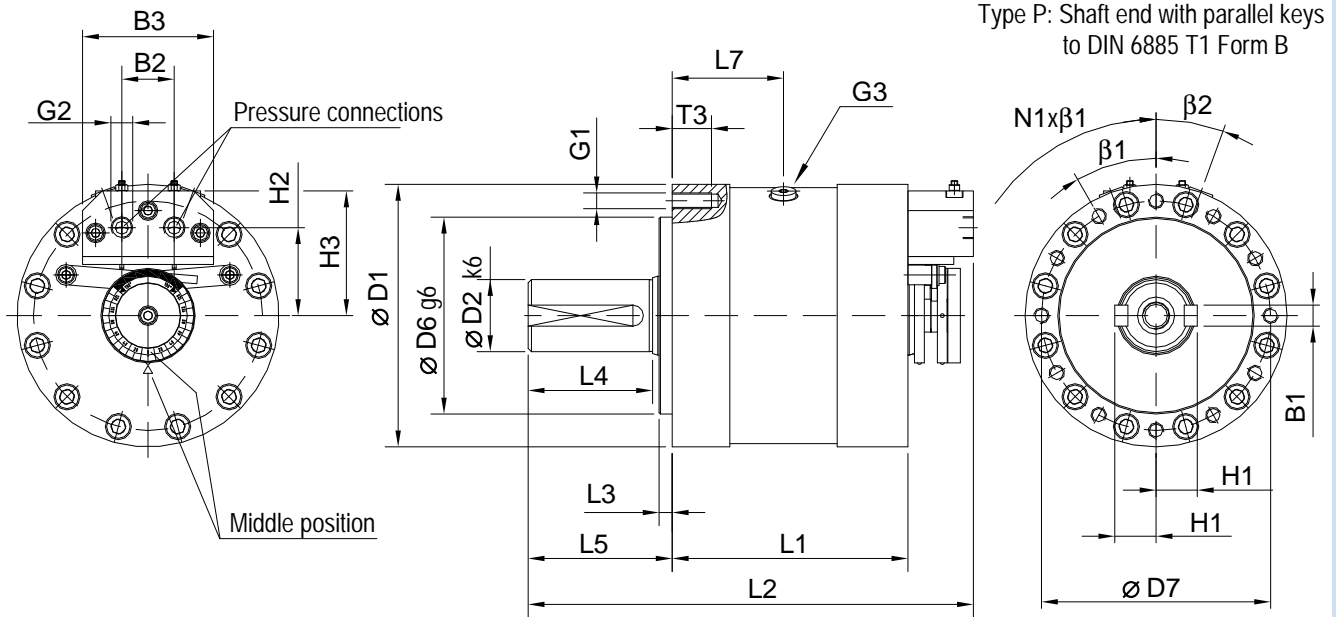
hense

systeme

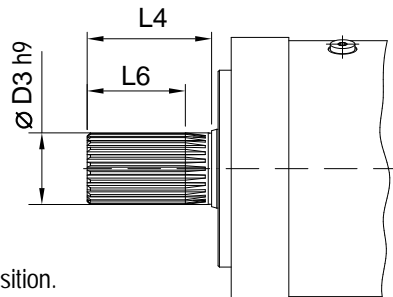
Fluid Drive Systems
Rotary Actuators
Rotary Lift Systems
Test Stand Technology (Torsion)

Technical Data		BG	01	02	03	04	05	06
theor. specific torque	M_{sp}	[Nm/bar]	1,19	2,05	3,83	7,88	15,53	28,31
max. operating pressure	$p_{N max}$	[bar]	200	200	200	200	200	200
min. operating pressure	$p_{M min}$	[bar]	15	15	15	15	15	15
max. angle of rotary	φ_{max}	[grd.]	250	250	250	250	260	270
max. radial force	$F_{r max}$	[kN]	1,0	1,4	2,5	3,5	5,0	10,0
max. axial force	$F_{ax max}$	[kN]	1,0	1,25	1,5	2,0	2,5	5,0
specific swept volume	v_{sp}	[cm ³ /grd.]	0,21	0,36	0,67	1,38	2,71	4,94
weight ca.	m	[kg]	5,4	8,4	13,0	28,0	45,5	82,5

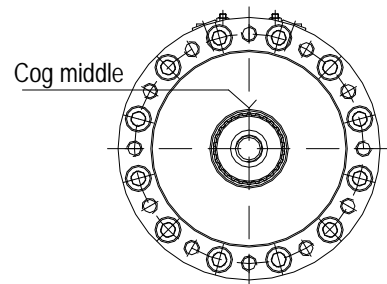
Subject to technical modifications!



Type P: Shaft end with parallel keys
to DIN 6885 T1 Form B



Type Z: Shaft end with involute spline
shaft section DIN 5480



The views show the shaft in middle position.
Subject to technical modifications!

Limited partnership:
Hense Systemtechnik GmbH & Co. KG
Reg. Office: Flottmannstr. 55, 44807 Bochum
Bochum District Court, HRA 4063
VAT ID No.: DE 812782196
Tax. No.: 306/5714/1185

General partner:
Hense Beteiligungsgesellschaft mbH
Reg. Office: Flottmannstr. 55, 44807 Bochum
Bochum District Court, HRB 4080

Communication:
Telephone: 0234-95388-0
Fax Sales: 0234-95388-20
Fax Purchasing: 0234-95388-50
Mail: service@hense-systeme.de
Web: www.hense-systeme.de

Managing Directors:
Dipl. Ing.
Dipl. Wirtsch. Ing.
Frank Hense

Bank details:
Commerzbank AG Bochum
Bank code 430 400 36
Acc. No.: 2 11 82 06
IBAN: DE07 4304 0036 0211 8206 00
BIC: COBADEFFXXX


Technical data of the standard rotary actuators HSE 01 to HSE 06

Page 2 of 2
Status 2009-10-05

hense

systeme

Fluid Drive Systems
Rotary Actuators
Rotary Lift Systems
Test Stand Technology (Torsion)



Measurement table	BG	01	02	03	04	05	06
B1	[mm]	6	8	10	14	16	20
B2	[mm]	25	25	25	40	40	48
B3	[mm]	65	65	65	100	100	120
D1	[mm]	95	115	130	175	200	240
D2	[mm]	22	30	35	45	55	75
D3	[mm]	21,75	29,75	34,75	44,6	54,6	74,4
D6	[mm]	65	75	90	120	150	170
D7	[mm]	80	95	110	150	175	210
G1	---	M 6	M 8	M 8	M12	M12	M16
G2	---	G1/4	G1/4	G1/4	G3/8	G3/8	G1/2
G3	---	---	---	---	---	G1/4	G1/4
H1	[mm]	13,5	18,0	20,5	26,0	31,5	42,0
H2	[mm]	33,0	39,0	41,5	54,0	67,0	73,0
H3	[mm]	53,5	59,5	62,0	82,0	95,0	105,0
L1	[mm]	85	95	120	140	180	230
L2	[mm]	165	184	222	285	340	410
L3	[mm]	5	5	5	10	10	10
L4	[mm]	36	45	58	80	95	105
L5	[mm]	45	54	67	95	110	120
L6	[mm]	25	30	40	60	75	80
L7	[mm]	---	---	---	---	85,0	110,0
N1	---	10	10	10	10	12	12
T3	[mm]	15	15	15	25	30	35
β1	[mm]	36,0	36,0	36,0	36,0	30,0	30,0
β2	[mm]	---	---	---	---	20	19

Subject to technical modifications!

Limited partnership:
Hense Systemtechnik GmbH & Co. KG
Reg. Office: Flottmannstr. 55, 44807 Bochum
Bochum District Court, HRA 4063
VAT ID No.: DE 812782196
Tax. No. : 306/5714/1185

General partner:
Hense Beteiligungsgesellschaft mbH
Reg. Office: Flottmannstr. 55, 44807 Bochum
Bochum District Court, HRB 4080

Communication:
Telephone: 0234-95388-0
Fax Sales: 0234-95388-20
Fax Purchasing: 0234-95388-50
Mail: service@hense-systeme.de
Web: www.hense-systeme.de

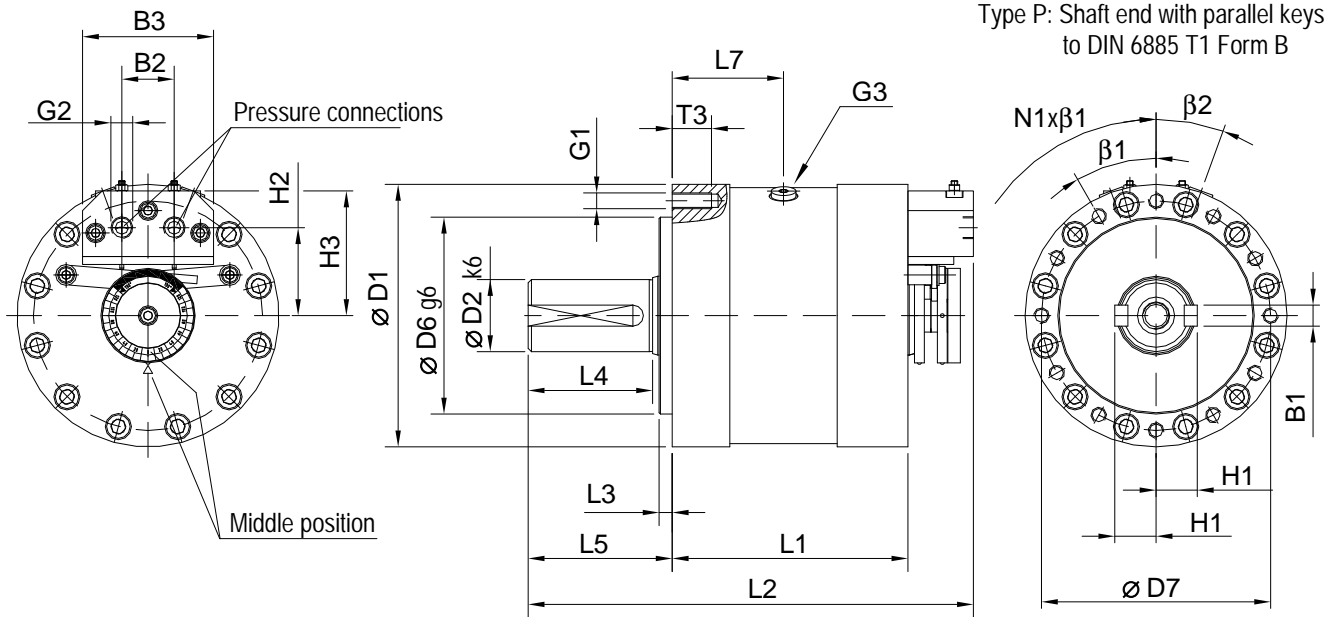
Managing Directors:
Dipl. Ing.
Dipl. Wirtsch. Ing.
Frank Hense

Bank details:
Commerzbank AG Bochum
Bank code 430 400 36
Acc. No.: 2 11 82 06
IBAN: DE07 4304 0036 0211 8206 00
BIC: COBADEFFXXX

Technical data of the standard rotary actuators HSE 07 to HSE 11

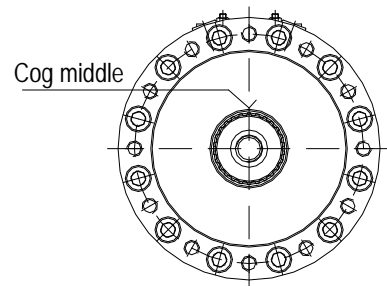
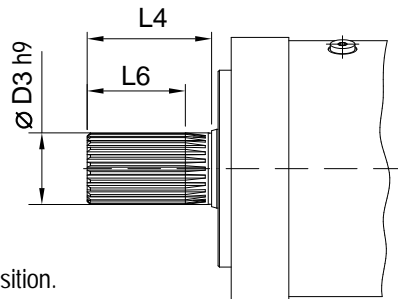
Technical Data		BG	07	08	09	10	11
theor. specific torque	M_{sp}	[Nm/bar]	55,13	98,9	164,6	275,4	468,8
max. operating pressure	$p_{N max}$	[bar]	160	160	160	120	120
min. operating pressure	$p_{M min}$	[bar]	15	15	15	15	15
max. angle of rotary	ϕ_{max}	[grd.]	280	290	290	290	290
max. radial force	$F_{r max}$	[kN]	15,0	20,0	25,0	30,0	40,0
max. axial force	$F_{ax max}$	[kN]	7,5	10,0	12,5	15,0	20,0
specific swept volume	v_{sp}	[cm ³ /grd.]	9,62	17,26	28,73	48,07	81,82
weight ca.	m	[kg]	131	256	363	470	785

Subject to technical modifications!



Type P: Shaft end with parallel keys to DIN 6885 T1 Form B

Type Z: Shaft end with involute spline shaft section DIN 5480



The views show the shaft in middle position.
 Subject to technical modifications!


Technical data of the standard rotary actuators HSE 07 to HSE 11

Page 2 of 2
Status 2009-10-05

hense

systeme

Fluid Drive Systems
Rotary Actuators
Rotary Lift Systems
Test Stand Technology (Torsion)



Measurement table	BG	07	08	09	10	11
B1	[mm]	25	32	32	36	40
B2	[mm]	48	60	60	75	75
B3	[mm]	120	150	150	180	180
D1	[mm]	280	350	385	420	520
D2	[mm]	95	120	130	140	170
D3	[mm]	94,4	119,0	129,0	139,0	169,0
D6	[mm]	200	250	280	300	400
D7	[mm]	250	310	345	380	460
G1	---	M16	M20	M20	M20	M24
G2	---	G1/2	G3/4	G3/4	G1	G1
G3	---	G1/4	G1/4	G1/4	G1/4	G1/4
H1	[mm]	52,5	67,0	72,0	78,0	94,0
H2	[mm]	90,0	115,0	125,0	140,0	165,0
H3	[mm]	122,0	155,0	165,0	185,0	210,0
L1	[mm]	275	340	415	475	520
L2	[mm]	480	600	710	790	875
L3	[mm]	10	15	15	20	20
L4	[mm]	130	165	200	200	240
L5	[mm]	145	190	225	230	270
L6	[mm]	100	130	160	160	190
L7	[mm]	132,5	162,5	200,0	227,5	250,0
N1	---	12	12	16	16	16
T3	[mm]	40	40	50	50	55
β1	[mm]	30,0	30,0	22,5	22,5	22,5
β2	[mm]	18	15	15	15	15

Subject to technical modifications!

Limited partnership:
Hense Systemtechnik GmbH & Co. KG
Reg. Office: Flottmannstr. 55, 44807 Bochum
Bochum District Court, HRA 4063
VAT ID No.: DE 812782196
Tax. No.: 306/5714/1185

General partner:
Hense Beteiligungsgesellschaft mbH
Reg. Office: Flottmannstr. 55, 44807 Bochum
Bochum District Court, HRB 4080

Communication:
Telephone: 0234-95388-0
Fax Sales: 0234-95388-20
Fax Purchasing: 0234-95388-50
Mail: service@hense-systeme.de
Web: www.hense-systeme.de

Managing Directors:
Dipl. Ing.
Dipl. Wirtsch. Ing.
Frank Hense

Bank details:
Commerzbank AG Bochum
Bank code 430 400 36
Acc. No.: 2 11 82 06
IBAN: DE07 4304 0036 0211 8206 00
BIC: COBADEFFXXX