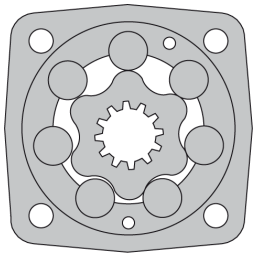
HYDRAULIC MOTORS OS

OIL FLOW IN DRAIN LINE

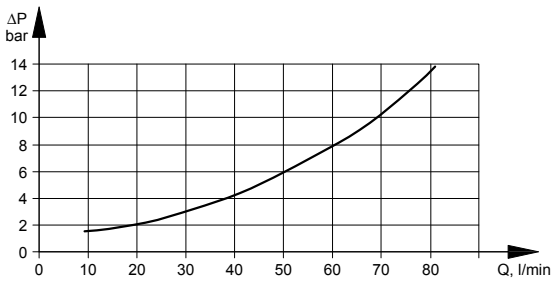
Pressure drop (bar)	Viscosity (mm²/s)	Oil flow in drain line (l/min)
140	20	1,5
	35	1
210	20	3
	35	2



GENERAL

Displacement, (cm³/rev)	564,9
Max. Speed, (RPM)	1000
Max. Torque, (daNm)	cont.: 85 int.: 99
Max. Output, (kW)	23
Max. Pressure Drop, (bar)	cont.: 210 int.: 275
Max. Oil Flow, (l/min)	90
Min. speed, (RPM)	5
Permissible Shaft Loads, (daN)	P_a=500
Pressure fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range, (°C)	- 40 ÷ 140
Optimal Viscosity range, (mm²/s)	20 ÷ 75
Filtration	ISO code 20/16 (Min. recommended fluid filtration of 25 micron)

PRESSURE LOSSES



SPECIFICATION DATA

Type				OS 80	OS 100	OS 125	OS 160	OS 200
Displacement [cm³/rev.]				80,5	100	125,7	159,7	200
Max. Speed, [RPM]	**cont.**			810	750	600	470	375
	int.			1000	900	720	560	450
Max. Torque [daNm]	**cont.**			20	25	32	40	46
	int.			24	30	38	48	60
	peak			26	32	40	51	65
Max. Output [kW]	**cont.**			16	17,5	17,5	17,5	15,5
	int.			19	21	21	21	22
Max. Pressure Drop [bar]	**cont.**			175	175	175	175	160
	int.			210	210	210	210	210
	peak			250	250	225	225	225
Max. Oil Flow [l/min]	**cont.**			65	75	75	75	75
	int.			80	90	90	90	90
Max. Inlet Pressure, [bar]	**cont.**			210	210	210	210	210
	int.			250	250	250	250	250
	peak			300	300	300	300	300
Max. Return Pressure w/o Drain Line or Max. Pressure in Drain Line, [bar]	**cont.**	**0-100**	**RPM**	100	100	100	100	100
	cont.	**100-300**	**RPM**	50	50	50	50	50
	cont.	**>300**	**RPM**	20	20	20	20	20
	int.	**0-max.**	**RPM**	100	100	100	100	100
Max. Return Pressure with Drain Line [bar]	**cont.**			140	140	140	140	140
	int.			175	175	175	175	175
	peak			210	210	210	210	210
Max. Starting Pressure with Unloaded Shift, [bar]				12	10	10	8	8
Min. Starting Torque [daNm]	**at max**	**press.**	**drop cont.**	16,5	20,5	26	28	33
	at max	**press.**	**drop int.**	19,5	25	31	39	41
Min. Speed, [RPM]				10	10	8	8	6
Weight, [kg]	**OS(FE)**			9,8(10,2)	10(10,4)	10,3(10,7)	10,7(11,1)	11,1(11,5)
	OSWE			10,3(10,7)	10,5(10,9)	10,8(11,2)	11,2(11,6)	11,6(12)
	OSZE			7,8(8,2)	8(8,4)	8,3(8,7)	8,7(9,1)	9,1(9,5)
	OSVE			5,7(6,1)	5,9(6,3)	6,2(6,6)	6,6(7)	7(7,4)
	OSQE			10,2(10,6)	10,4(10,8)	10,7(11,1)	11,1(11,5)	11,5(11,9)
	OSBE			16,8(17,2)	17,0(17,4)	17,3(17,7)	17,7(18,1)	18,1(18,5)

Intermittent operation: the permissible values may occur for max. 10% of every minute.
Peak load: the permissible values may occur for max. 1% of every minute.

SPECIFICATION DATA

Type				OS 250	OS 315	OS 400	OS 475	OS 525	OS 565
Displacement [cm³/rev.]				250	314,9	397	474,6	522,7	564,9
Max. Speed, [RPM]	**cont.**			300	240	185	160	145	130
	int.			360	290	230	190	175	160
Max. Torque [daNm]	**cont.**			50	63	67	58	58	58
	int.			63	79	79	68	69	69
	peak			69	84	85	84	85	85
Max. Output [kW]	**cont.**			13,5	11,0	10,5	8,4	7,6	6,9
	int.			19	18	15	11,3	10,4	9,6
Max. Pressure Drop [bar]	**cont.**			140	140	120	85	80	75
	int.			175	175	140	100	90	85
	peak			200	185	140	115	105	100
Max. Oil Flow [l/min]	**cont.**			75	75	75	75	75	75
	int.			90	90	90	90	90	90
Max. Inlet Pressure, [bar]	**cont.**			210	210	210	210	210	210
	int.			250	250	250	250	250	250
	peak			300	300	300	300	300	300
Max. Return Pressure w/o Drain Line or Max. Pressure in Drain Line, [bar]	**cont.**	**0-100**	**RPM**	100	100	100	100	100	100
	cont.	**100-300**	**RPM**	50	50	50	50	50	50
	cont.	**>300**	**RPM**	-	-	-	-	-	-
	int.	**0-max.**	**RPM**	100	100	100	100	100	100
Max. Return Pressure with Drain Line [bar]	**cont.**			140	140	140	140	140	140
	int.			175	175	175	175	175	175
	peak			210	210	210	210	210	210
Max. Starting Pressure with Unloaded Shift, [bar]				8	8	8	8	8	8
Min. Starting Torque [daNm]	**at max**	**press.**	**drop cont.**	36	44	47	47	47	47
	at max	**press.**	**drop int.**	44	52	55	55	55	55
Min. Speed, [RPM]				6	5	5	5	5	5
Weight, [kg]	**OS(FE)**			11,6(12)	12,3(12,7)	13,2(13,6)	14(14,4)	14,9(15,3)	14,9(15,3)
	OSWE			12,1(12,5)	12,8(13,2)	13,7(14,1)	14,5(14,9)	15,4(15,8)	15,4(15,8)
	OSZE			9,6(10)	10,3(10,7)	11,2(11,6)	12(12,4)	12,9(13,3)	12,9(13,3)
	OSVE			7,5(7,9)	8,2(8,6)	9,1(9,5)	9,9(10,3)	10,8(11,2)	10,8(11,2)
	OSQE			12(12,4)	12,7(13,1)	13,6(14)	14,4(14,8)	15,3(15,7)	15,3(15,7)
	OSBE			18,6(19)	19,3(19,7)	20,2(20,6)	21(21,4)	21,9(22,3)	21,9(22,3)

Intermittent operation: the permissible values may occur for max. 10% of every minute.
Peak load: the permissible values may occur for max. 1% of every minute.

SPECIFICATION DATA for OS...LSV

Low Speed Valve (LSV) "LSV" Series hydraulic motors have been designed to operate with normal pressure drop and to ensure smooth run at low speed (up to 200 min^{-1}), as the best security for operation is guaranteed at frequency of rotation 20 ÷ 50 min. They have an increased starting pressure drop and are not recommended for using at pressure less than 40 bars.

Look at specification data for hydraulic motors standard version. The modification concerns only the following parameters: maximum speed, maximum output, maximum Oil flow and maximum starting pressure.

Type		OS 80	OS 100	OS 125	OS 160	OS 200	OS 250	OS 315	OS 400
Max. Speed, [RPM]	**cont.**	200	200	200	200	200	200	200	185
	int.	250	250	250	250	250	250	250	225
Max. Output [kW]	**cont.**	4,6	6,0	7,4	8,0	8,0	8,8	10,6	9,5
	int.	6,5	8,4	10,0	12,2	12,4	13,4	15,0	12,8
Max. Oil Flow [l/min]	**cont.**	16	20	25	32	40	50	65	75
	int.	20	25	32	40	50	62,5	80	90
Max. Starting Pressure with Unloaded Shift, [bar]		25	20	20	15	15	15	15	15

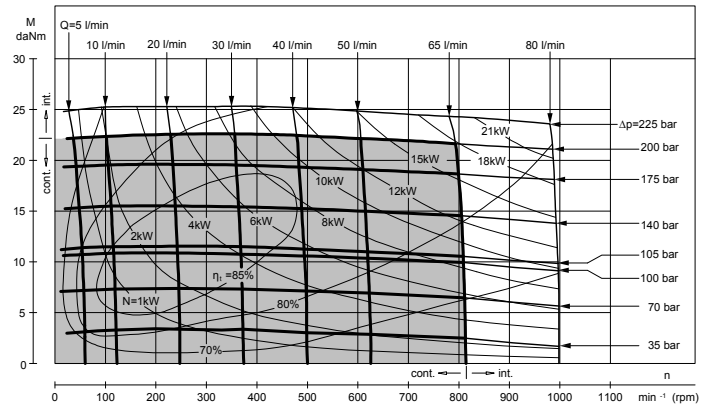
SPECIFICATION DATA for OS...LL

Low Leakage (LL) "LL" Series hydraulic motors have been designed to operate at the whole standard range of working conditions (pressure drop and frequency of rotation), but with considerable decreased volumetric losses in the drainage ports. Their main purpose is to operate as series-connected motors in hydraulic systems. For this version is permissible decreasing of the maximal torque with up to 5% (at middle speed) and up to 10% (at high speed) in comparison to the standard versions of motors.
Look at specification data for hydraulic motors standard version. The modification concerns only the parameters: maximum torque, maximum output, minimum starting torque.

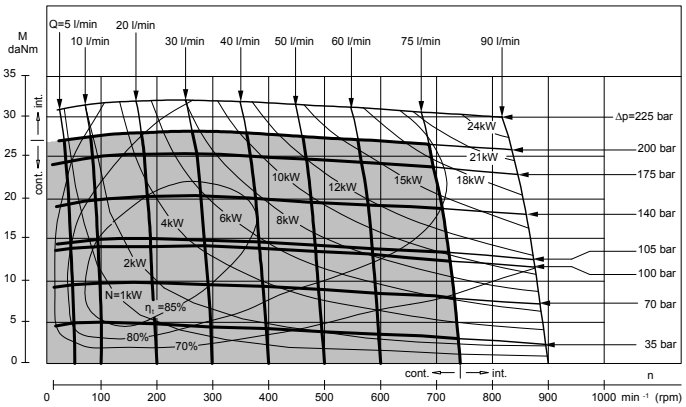
Type		OS 80	OS 100	OS 125	OS 160	OS 200	OS 250	OS 315	OS 400
Max. Torque [daNm]	cont.	22,9	28,5	36,4	33,2	39,0	43,8	52,6	56,5
	int.	25,2	31,1	39,6	46,8	48,8	52,6	61,4	67,2
Max. Output [kW]	cont.	17,8	19,3	19,3	14,8	13,3	11,8	10,9	9,5
	int.	19,3	21,3	21,4	20,0	16,6	14,2	12,8	12,3
Min. Starting Torque [daNm]	cont.	18,7	23,2	29,6	27,3	32,2	35,1	43,0	45,8
	int.	20,3	25,9	32,3	38,0	40,0	43,0	50,7	53,6

FUNCTION DIAGRAMS

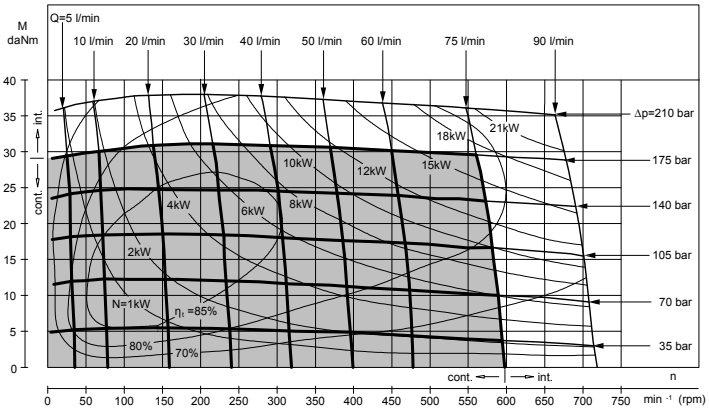
OS 80



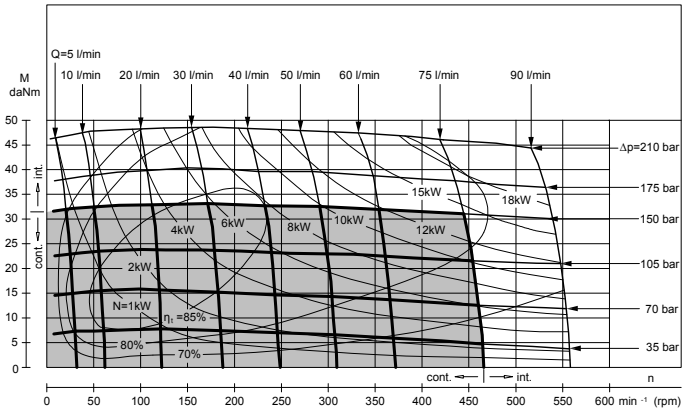
OS 100



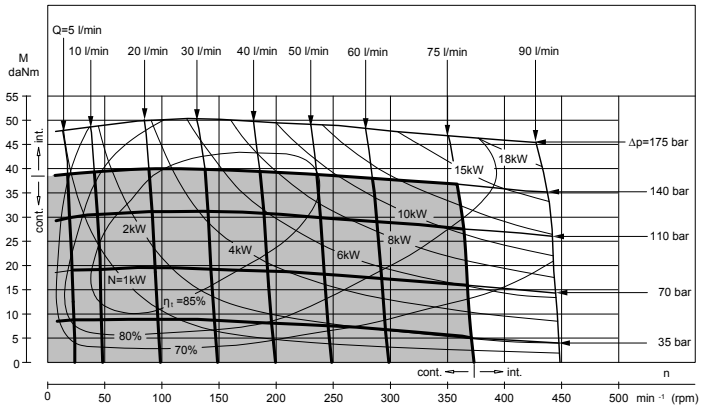
OS 125



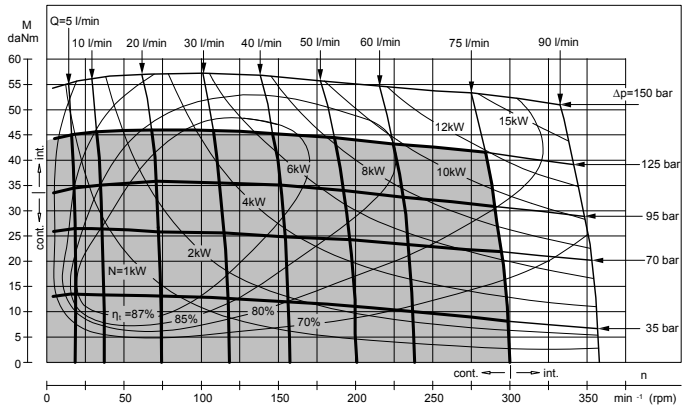
OS 160



OS 200



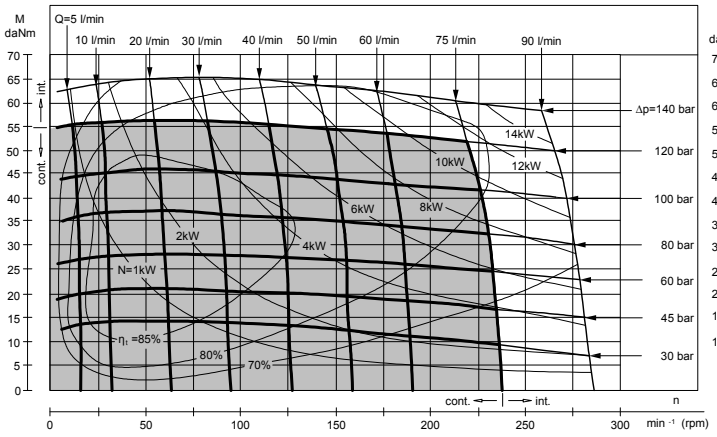
OS 250



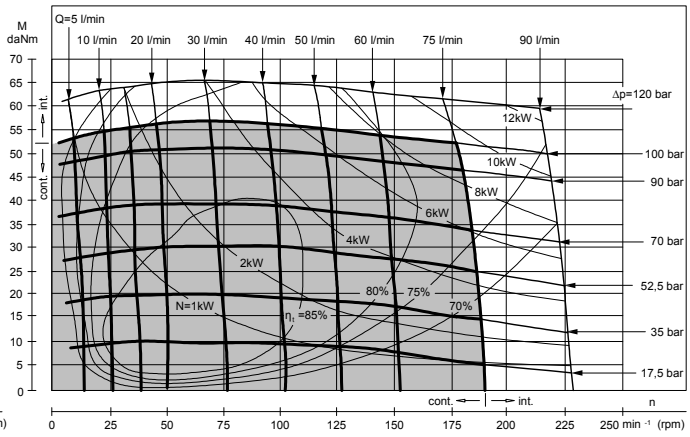
The function diagrams data was collected at back pressure 5÷10 bar
and oil with viscosity of 32 mm²/s at 50° C.

FUNCTION DIAGRAMS

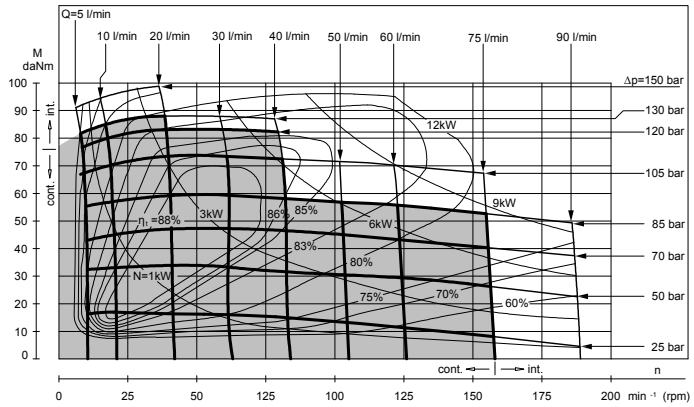
OS 315



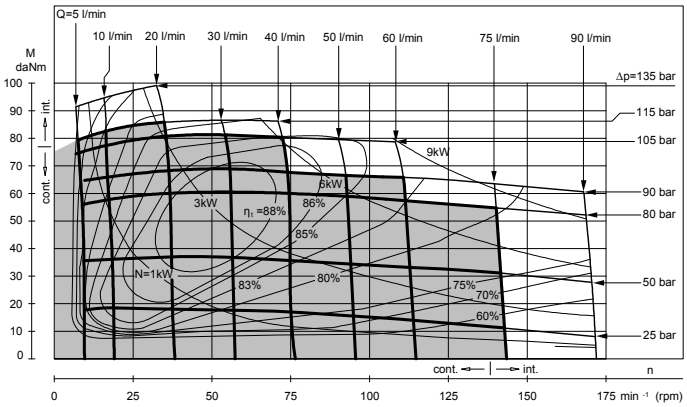
OS 400



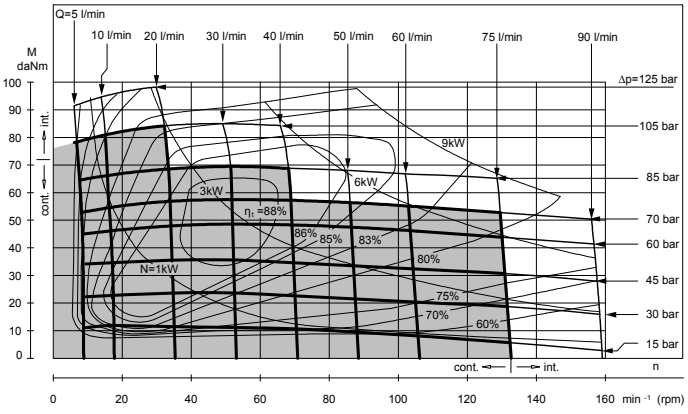
OS 475



OS 525

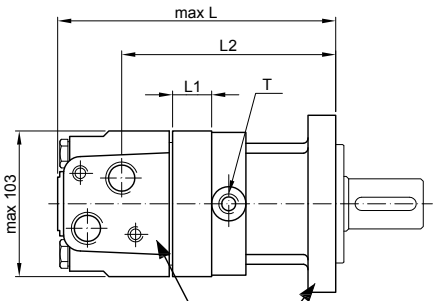


OS 565



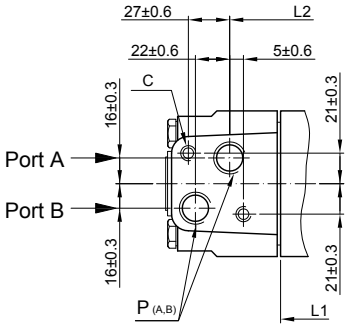
The function diagrams data was collected at back pressure 5÷10 bar
and oil with viscosity of 32 mm²/s at 50° C.

DIMENSIONS AND MOUNTING DATA

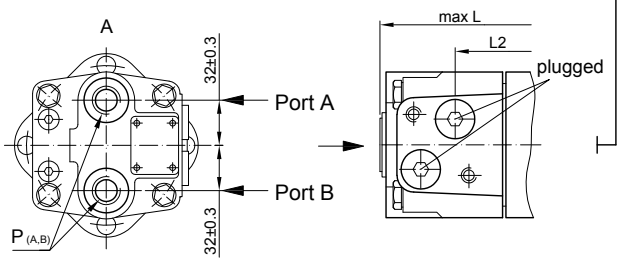


PORTING

Side Ports

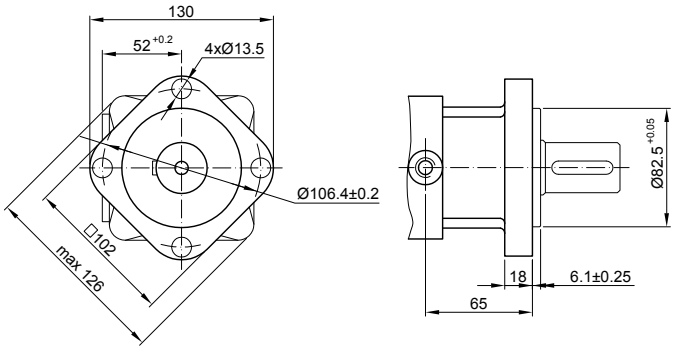


E RearPorts

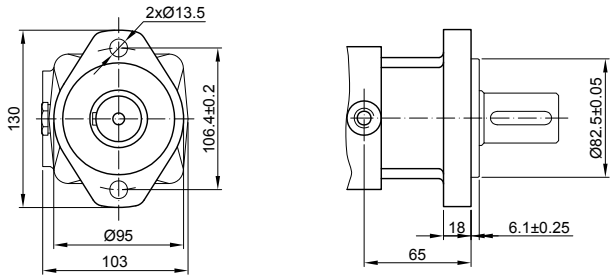


MOUNTING

SAE A-4 Mount (4 Holes)



A SAE A-2 Mount (2 Holes)



C : 2xM10 - 12 mm depth

$P_{(A,B)}$:2xG1/2 or 2xM22x1,5 - 15 mm depth

T :G1/4 or M14x1,5 - 12 mm depth (plugged)

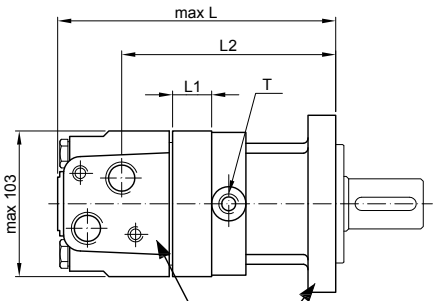
Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

Reverse Rotation
Viewed from Shaft End
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**

Type	L , mm	L2 , mm	Type	L , mm	L1 , mm
OS(A) 80	167	122	**OS(A)E 80**	174	11
OS(A) 100	170	126	**OS(A)E 100**	177	14,5
OS(A) 125	175	130	**OS(A)E 125**	182	19
OS(A) 160	181	136	**OS(A)E 160**	188	25
OS(A) 200	188	143	**OS(A)E 200**	195	32
OS(A) 250	197	152	**OS(A)E 250**	204	41
OS(A) 315	208	163	**OS(A)E 315**	215	53
OS(A) 400	222	177	**OS(A)E 400**	229	67
OS(A) 475	237	193	**OS(A)E 475**	242	82,6
OS(A) 525	229	185	**OS(A)E 525**	234	74,5
OS(A) 565	235	191	**OS(A)E 565**	240	80,2

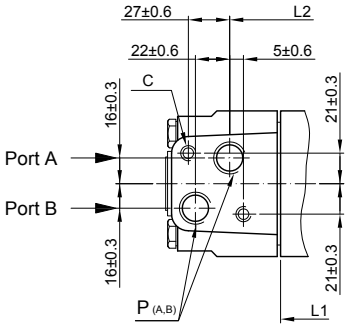
The permissible output torque for shafts must be not exceeded!

DIMENSIONS AND MOUNTING DATA

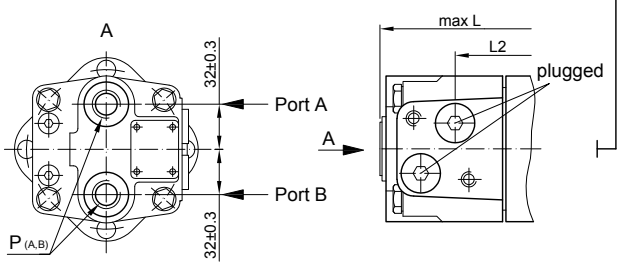


PORTING

Side Ports

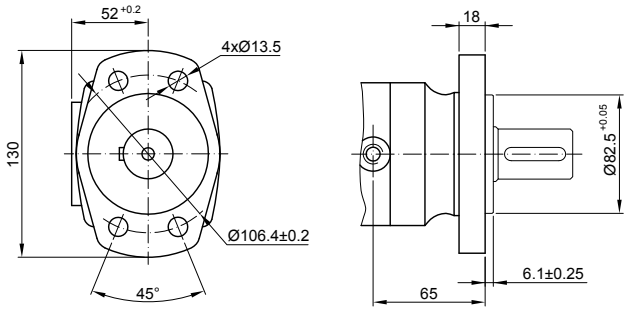


E RearPorts

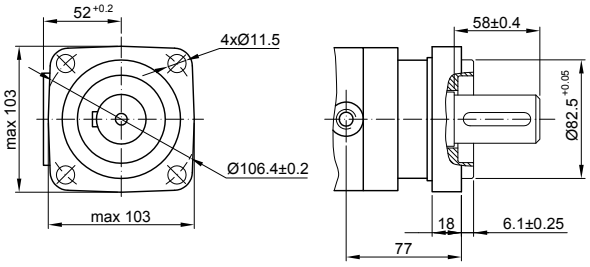


MOUNTING

F Magneto Mount (4 Holes)



Q Square Mount (4 Holes)



C : 2xM10 - 12 mm depth

$P_{(A,B)}$:2xG1/2 or 2xM22x1,5 - 15 mm depth

T :G1/4 or M14x1,5 - 12 mm depth (plugged)

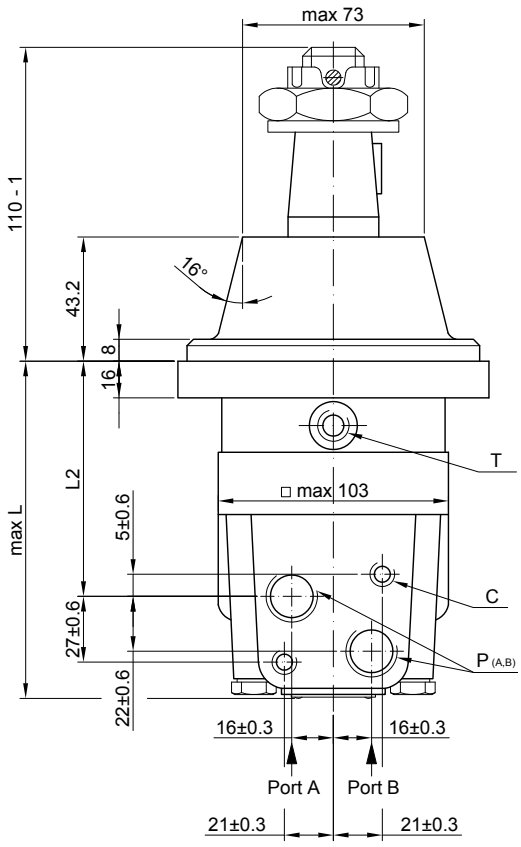
Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

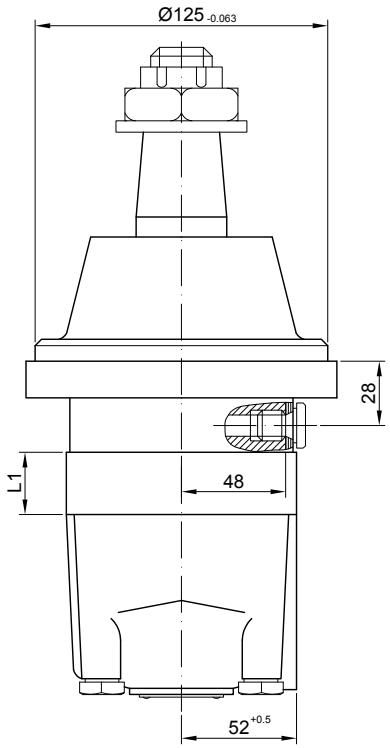
Reverse Rotation
Viewed from Shaft End
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**

Type	L , mm	L2 , mm	Type	L , mm	L2 , mm	Type	L , mm	Type	L , mm	L1 , mm
OSF 80	167	122	**OSQ 80**	178	134	**OSFE 80**	174	**OSQE 80**	186	11
OSF 100	170	126	**OSQ 100**	181	138	**OSFE 100**	177	**OSQE 100**	189	14,5
OSF 125	175	130	**OSQ 125**	186	142	**OSFE 125**	182	**OSQE 125**	194	19
OSF 160	181	136	**OSQ 160**	192	148	**OSFE 160**	188	**OSQE 160**	200	25
OSF 200	188	143	**OSQ 200**	199	155	**OSFE 200**	195	**OSQE 200**	207	32
OSF 250	197	152	**OSQ 250**	208	164	**OSFE 250**	204	**OSQE 250**	216	41
OSF 315	208	163	**OSQ 315**	219	175	**OSFE 315**	215	**OSQE 315**	227	53
OSF 400	222	177	**OSQ 400**	233	189	**OSFE 400**	229	**OSQE 400**	241	67
OSF 475	237	193	**OSQ 475**	247	205	**OSFE 475**	242	**OSQE 475**	254	82,6
OSF 525	229	185	**OSQ 525**	240	197	**OSFE 525**	234	**OSQE 525**	246	74,5
OSF 565	235	191	**OSQ 565**	246	203	**OSFE 565**	240	**OSQE 565**	252	80,2

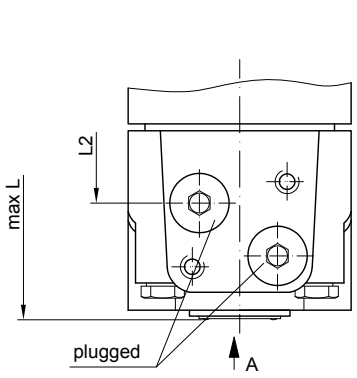
DIMENSIONS AND MOUNTING DATA - OSW

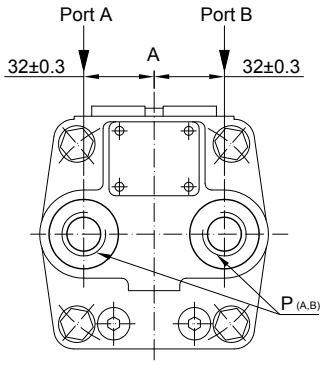
W Wheel Mount

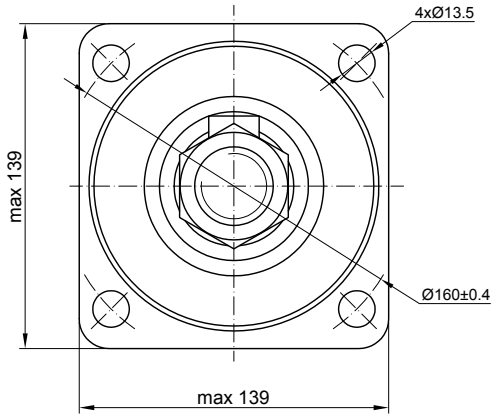




E Rear Port







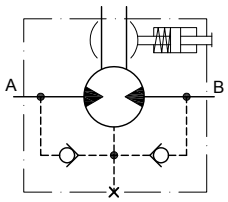
C :2xM10 -12 mm depth
$P_{(A,B)}$:2xG1/2 or 2xM22x1,5 - 15 mm depth
T :G1/4 or M14x1,5 -12 mm depth (plugged)

Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

Reverse Rotation
Viewed from Shaft End
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**

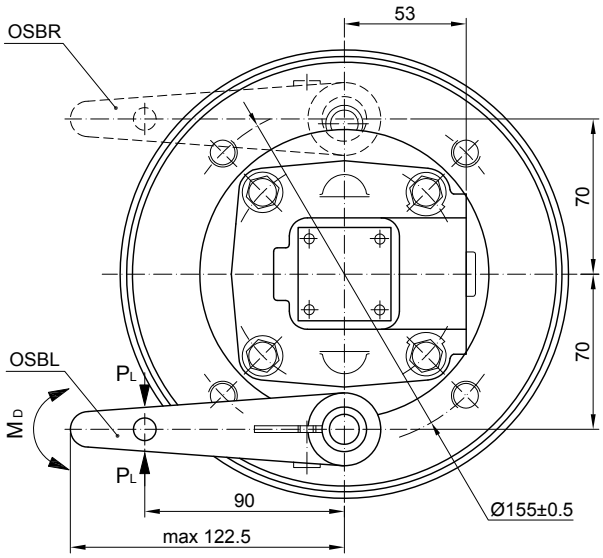
Type	L , mm	L1 , mm	L2 , mm	Type	L , mm
OSW 80	129	11	85	**OSWE 80**	140
OSW 100	132	14,5	88	**OSWE 100**	143
OSW 125	137	19	93	**OSWE 125**	148
OSW 160	143	25	99	**OSWE 160**	154
OSW 200	150	32	106	**OSWE 200**	161
OSW 250	159	41	115	**OSWE 250**	170
OSW 315	169	53	126	**OSWE 315**	181
OSW 400	183	67	141	**OSWE 400**	194
OSW 475	198	82,6	156	**OSWE 475**	207
OSW 525	190	74,5	148	**OSWE 525**	199
OSW 565	196	80,2	154	**OSWE 565**	205

DIMENSIONS AND MOUNTING DATA - OSB



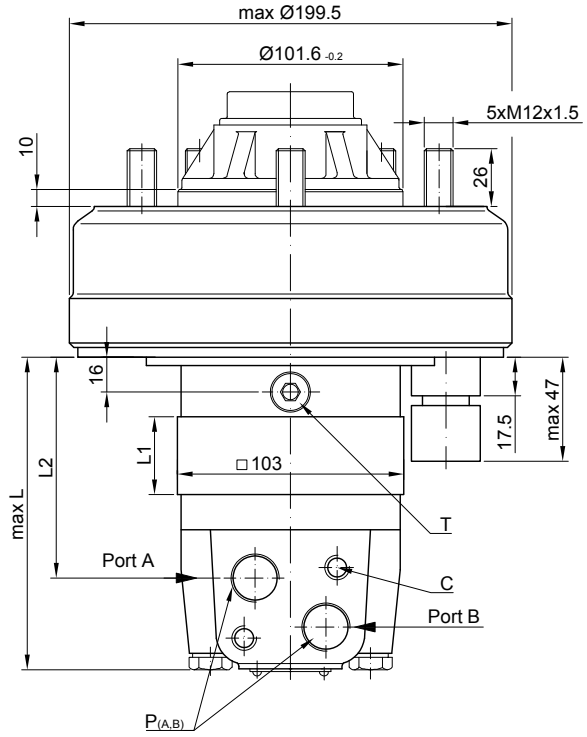
B Motor with Brum Brake

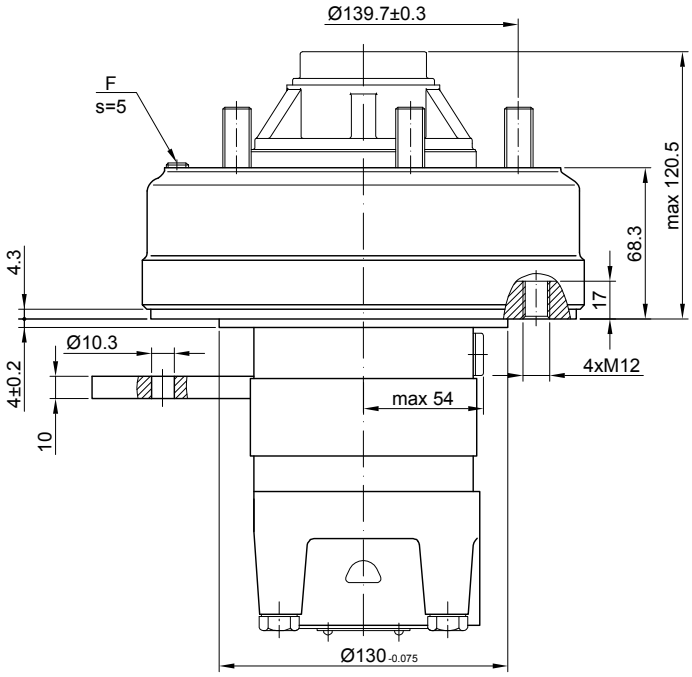
Actuating the brake level, the brake shaft is turned. The rectangular shape of the inner part of this shaft forces the brake pads to be pressed against the brake drum. This brakes the wheel or the winch drum.
Releasing the level, the springs pull it and the brake pads back to the initial position. The motor output shaft is released. Minimum angle adjustment is 10 . It can be adjusted by dismounting the level. Depending on the application You can choose the actuating direction of the brake level. The rod connection actuating the brake should be capable of moving at last 25 mm from neutral to extreme position.



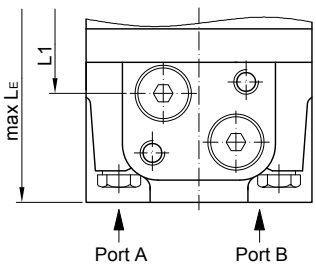
C: 2xM10 -12 mm depth
D: Wheel bolts 5xM12x1,5
E: 4xM12; 17mm depth, 900

F: Inspection hole for checking brake lining
T: G 1/4 or M14x1,5 - 12 mm depth (plugged)
P :2xG1/2 or 2xM22x1,5 - 15 mm depth





E Rear Port



Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

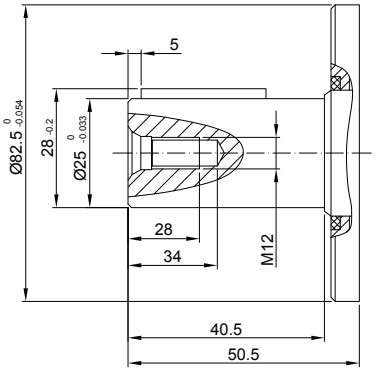
Reverse Rotation
Viewed from Shaft End
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**

Type	L , mm	L1 , mm	L2 , mm	LE , mm
OSB 80	119	14,0	74	127
OSB 100	122	17,4	77	130
OSB 125	126	21,8	82	134
OSB 160	132	27,8	88	140
OSB 200	139	34,8	95	147
OSB 250	148	43,5	110	156
OSB 315	159	54,8	115	167
OSB 400	174	69,4	130	182
OSB 475	188	82,6	143	196
OSB 525	180	74,5	135	188
OSB 565	186	80,2	141	192

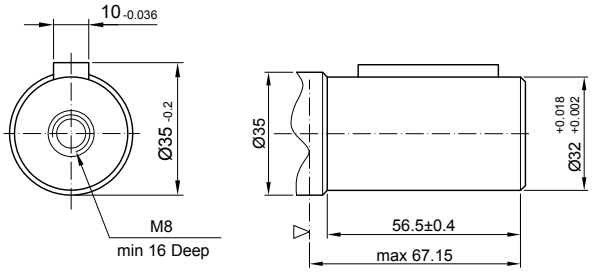
For rear ported motors.

SHAFT EXTENSIONS

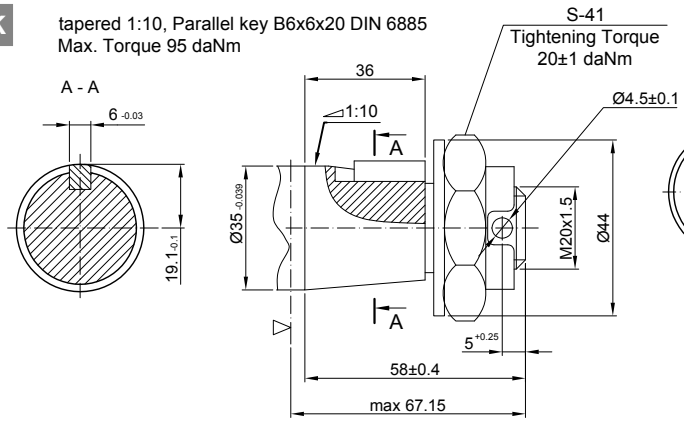
B Ø 25 mm straight



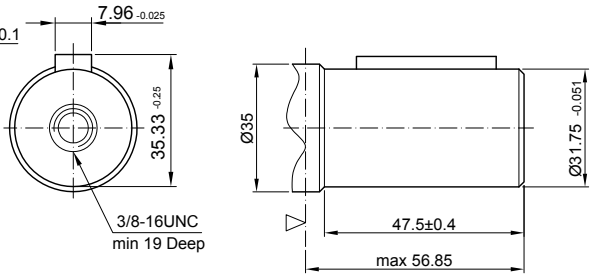
C Ø32 straight, Parallel key A10x8x45 DIN 6885
Max. Torque 77 daNm



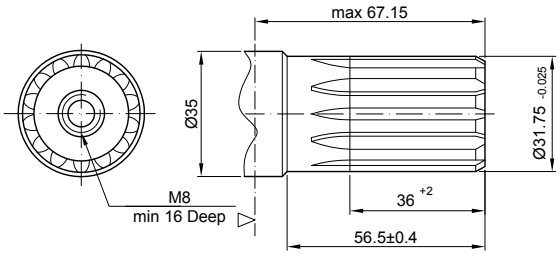
K tapered 1:10, Parallel key B6x6x20 DIN 6885
Max. Torque 95 daNm



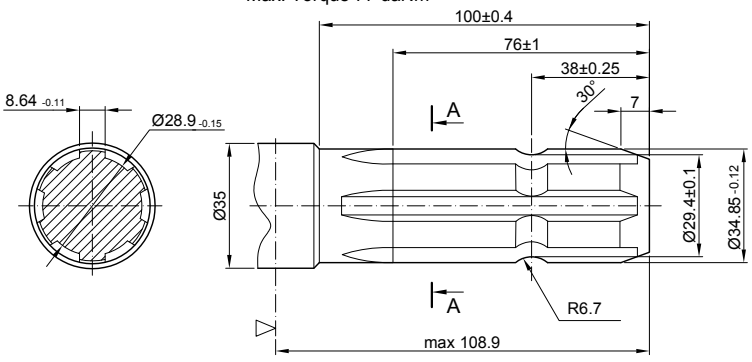
CO Ø1 1/4" straight, Parallel key 5/16"x5/16"x1 1/4" BS46
Max. Torque 77 daNm



SH Ø1 1/4" splined 14T, DP12/24 ANSI B92.1-1976
Max. Torque 95 daNm

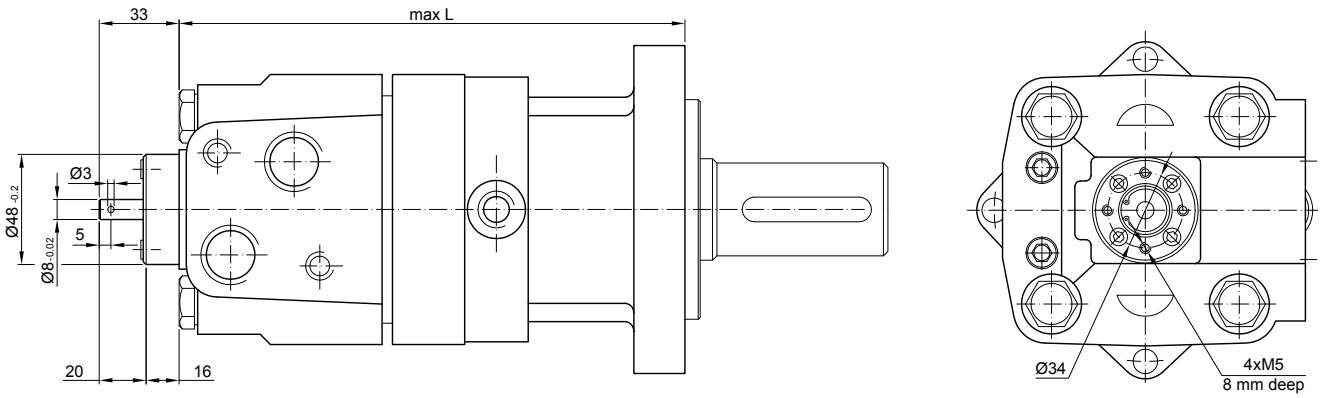


SL Ø34.85 p.t.o. DIN 9611 Form 1
Max. Torque 77 daNm



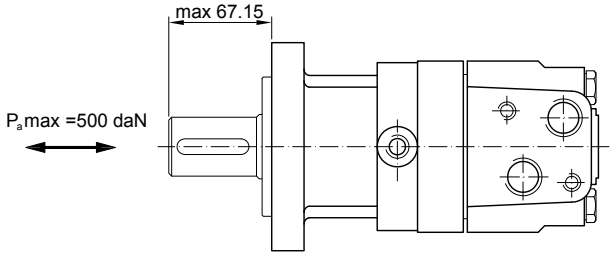
∇ Motor Mounting Surface

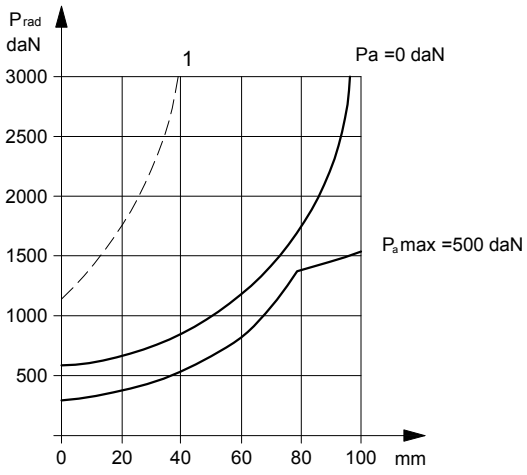
MOTORS WITH TACHO CONNECTION - Option "T"

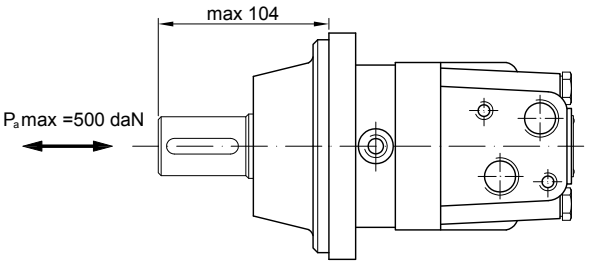


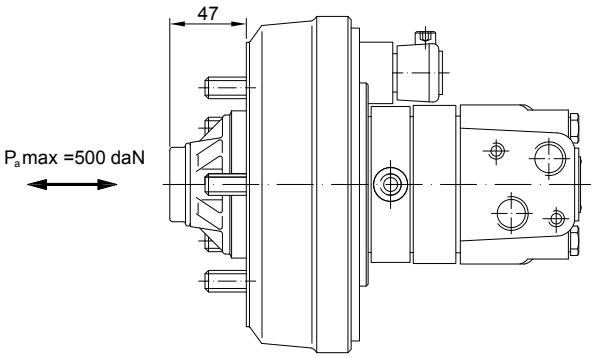
PERMISSIBLE SHAFT LOADS

The output shaft runs in tapered bearings that permit high axial and radial forces.
Curve "1" shows max. radial shaft load. Any shaft load exceeding the values quoted in the curve will seriously reduce motor life. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

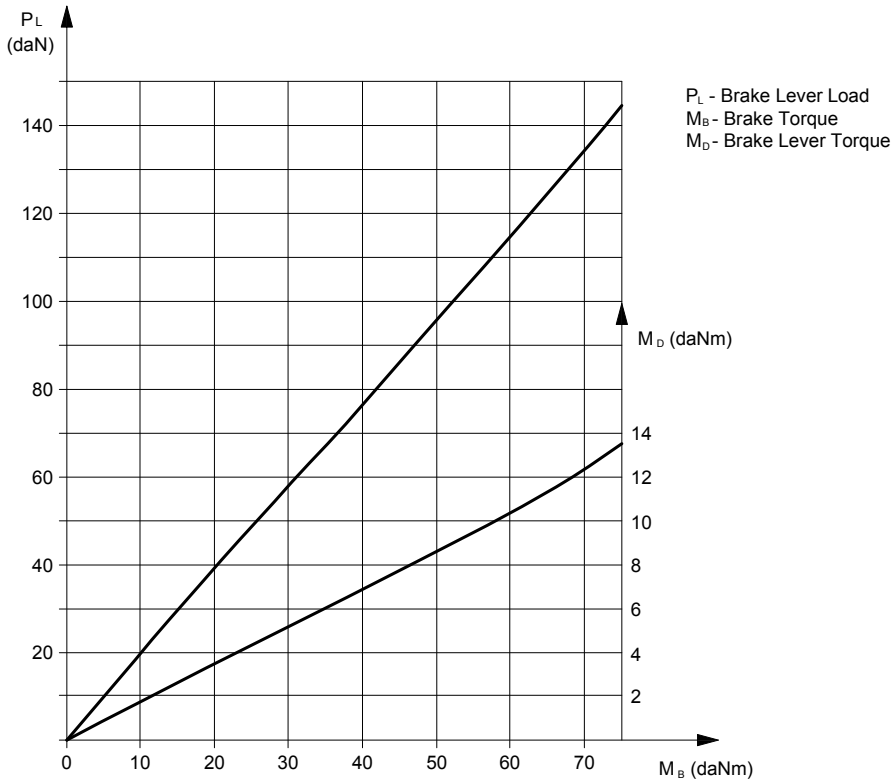




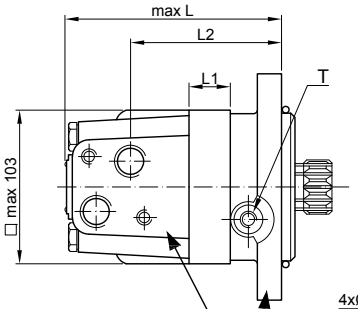




FUNCTION DIAGRAM OSB

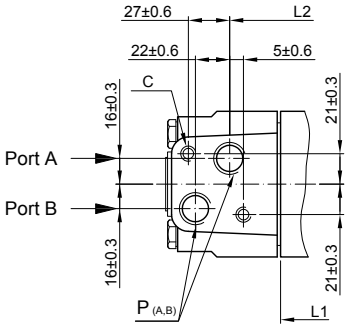


DIMENSIONS AND MOUNTING DATA

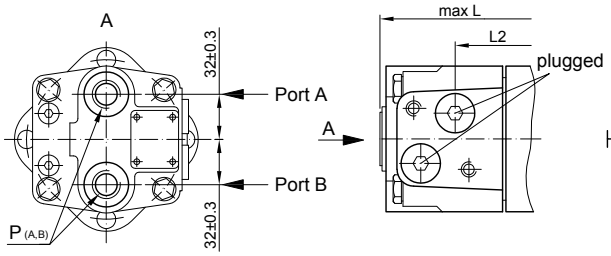


PORTING

Side Ports

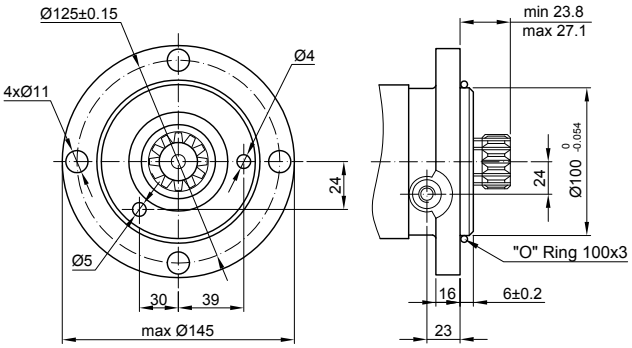


E RearPorts

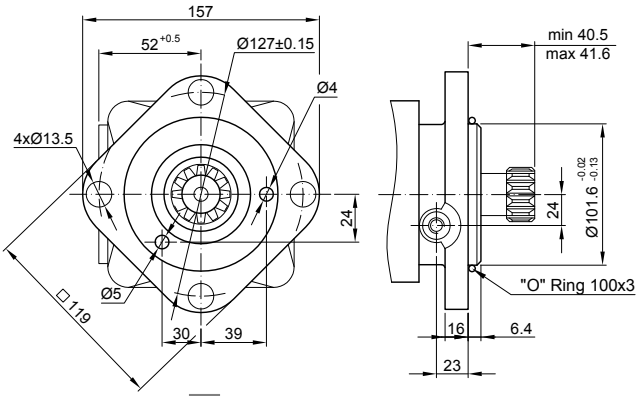


MOUNTING

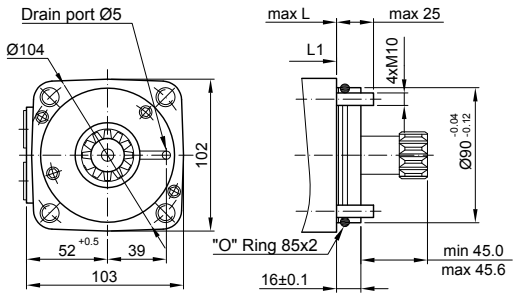
S Short Mount



Z Short Mount



V Very Short Mount



C : 2xM10 - 12 mm depth

$P_{(A,B)}$:2xG1/2 or 2xM22x1,5 - 15 mm depth

T :G1/4 or M14x1,5 - 12 mm depth (plugged)

Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

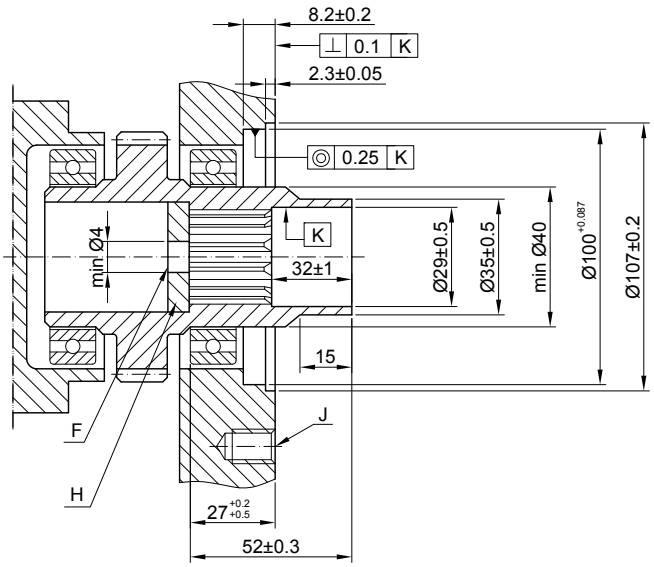
Reverse Rotation
Viewed from Shaft End
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**

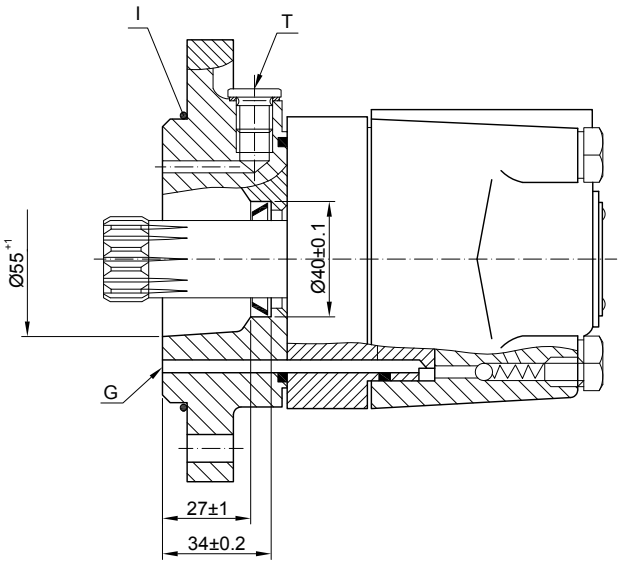
Type	L , mm	L2 , mm	Type	L , mm	L2 , mm	Type	L , mm	Type	L , mm	L1 , mm
OSS 80	122	79	**OSV 80**	88	48	**OSSE 80**	133	**OSVE 80**	96	11
OSS 100	125	83	**OSV 100**	91	51	**OSSE 100**	136	**OSVE 100**	99	14,5
OSS 125	130	86	**OSV 125**	96	56	**OSSE 125**	141	**OSVE 125**	104	19
OSS 160	136	92	**OSV 160**	102	62	**OSSE 160**	147	**OSVE 160**	110	25
OSS 200	143	100	**OSV 200**	109	69	**OSSE 200**	154	**OSVE 200**	117	32
OSS 250	152	108	**OSV 250**	118	78	**OSSE 250**	163	**OSVE 250**	126	41
OSS 315	163	119	**OSV 315**	129	89	**OSSE 315**	174	**OSVE 315**	137	53
OSS 400	177	133	**OSV 400**	143	103	**OSSE 400**	188	**OSVE 400**	151	67
OSS 475	194	152	**OSV 475**	160	116	**OSSE 475**	203	**OSVE 475**	166	82,6
OSS 525	186	144	**OSV 525**	152	108	**OSSE 525**	195	**OSVE 525**	158	74,5
OSS 565	192	150	**OSV 565**	158	114	**OSSE 565**	201	**OSVE 565**	164	80,2

The width of the gerolor is 3 mm greater than L1.
OSZ(E) have the same dimension as type OSS(E)

DIMENSIONS OF THE ATTACHED COMPONENT

For OSS





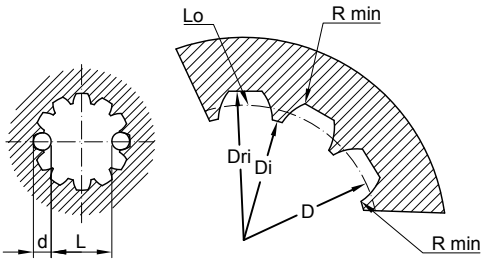
F: Oil circulation hole
G: Internal drain channel
H: Hardened stop plate
I: O- Ring 100x3mm (for OSS)

J: 2xM 10 - depth 13
T: Drain connection G1/4 or M14x1,5

INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

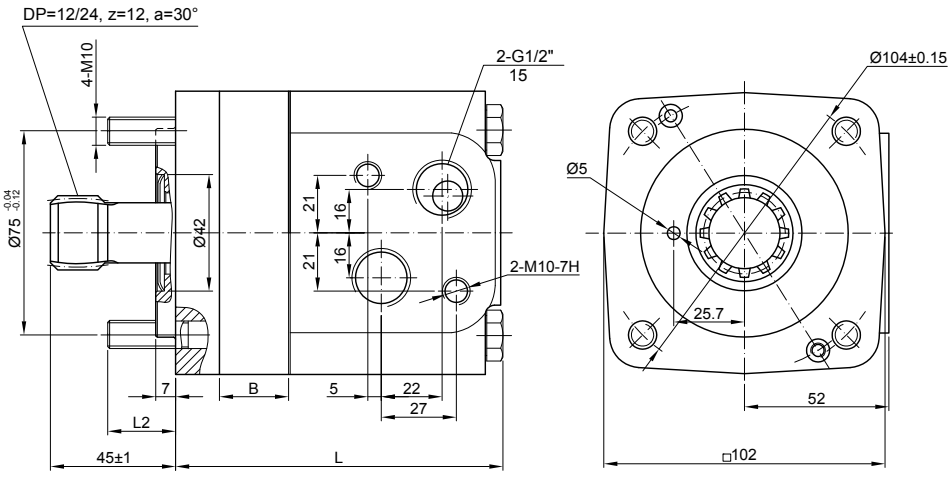
Fillet Root Side Fit		mm
Number of Teeth	z	12
Diametral Pitch	DP	12 / 24
Pressure Angle		30°
Pitch Dia.	D	25,4
Major Dia.	Dri	28,0 -0,1
Minor Dia.	Di	23,0 +0,033
Space Width [Circular]	Lo	4,308±0,020
Fillet Radius	Rmin	0,2
Max. Measurement between Pin	L	17,62 +0,15
Pin Dia.	d	4,835±0,001

Above are when hardened



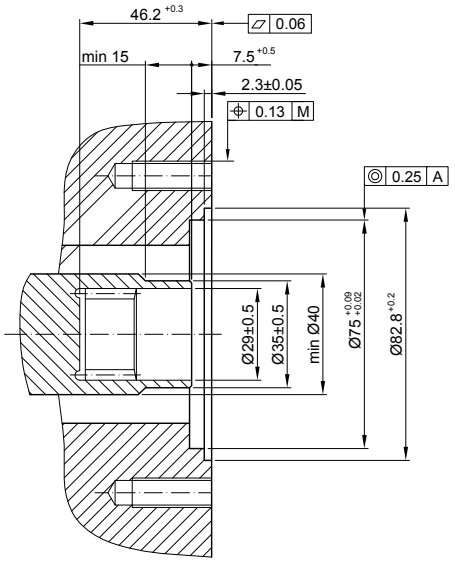
Hardering Specification:
HRC 60±2
Effective case depth (HRC 52) 0,7±0,2 mm
Materiall 20 MoCr4 DIN 17210 or better

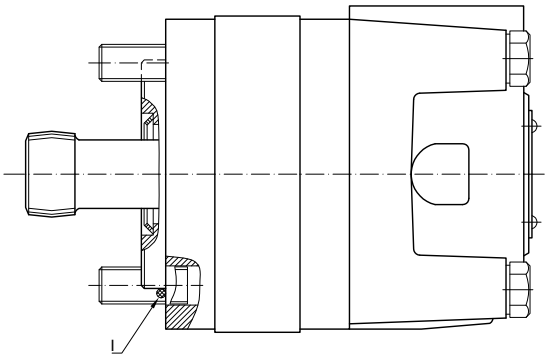
OUTLINE DIMENSIONS REFERENCE for OSU



Type	L , mm	L2 , mm	B , mm
OSU 80	106	22	11,5
OSU 100	111,5	18,5	15
OSU 125	116	19	19,5
OSU 160	122	18	25,5
OSU 200	129	21	33,5
OSU 250	138	22	41,5
OSU 315	150	20	53,5
OSU 400	164	21	67,5

DIMENSIONS OF THE ATTACHED COMPONENT for OSU



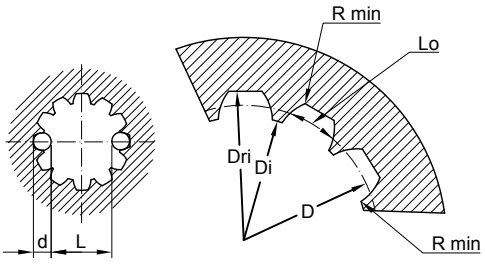


J: 4xM10-26 mm depth, 90° , Ø104
I: O- Ring 75x3 mm

INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Fillet Root Side Fit		mm
Number of Teeth	z	12
Diametral Pitch	DP	12 / 24
Pressure Angle		30°
Pitch Dia.	D	25,4
Major Dia.	Dri	28,0 -0,1
Minor Dia.	Di	23,0 +0,033
Space Width [Circular]	Lo	4,308±0,020
Fillet Radius	Rmin	0,2
Max. Measurement between Pin	L	17,62 +0,15
Pin Dia.	d	4,835±0,001

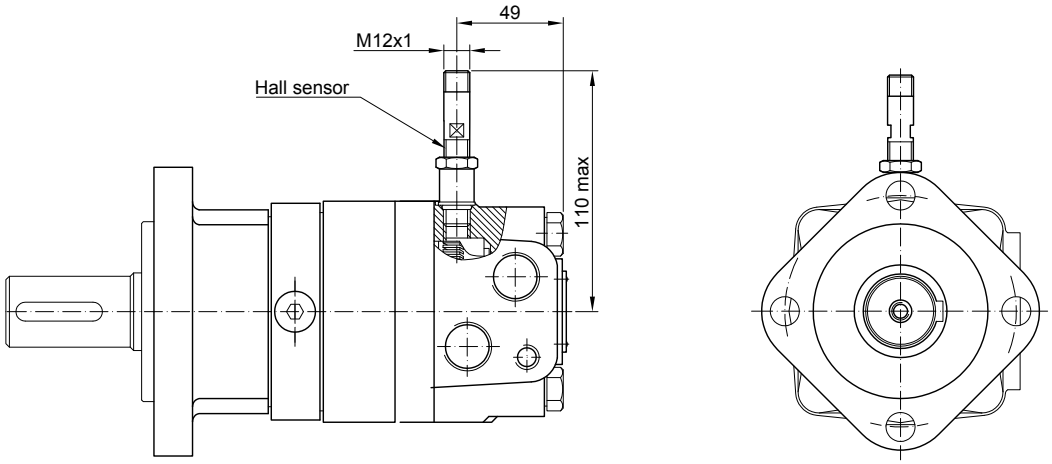
Above are when hardened



Hardering Specification:
HRC 60±2
Effective case depth (HRC 52) 0,7±0,2 mm
Materiall 20 MoCr4 DIN 17210 or better

HYDRAULIC MOTORS WITH SPEED SENSOR TYPE OS...RS

Meta Hydraulic is introducing hydraulic motor with a new generation of speed sensor. The electric output signal is a standard voltage signal that can be used for regulating the speed of a motor.
The speed is measured by a sensor in accordance with the Hall principle. Signal processing and amplification are performed in the sensor housing. Connection is provided in the housing by a Plug connector M12 Series.



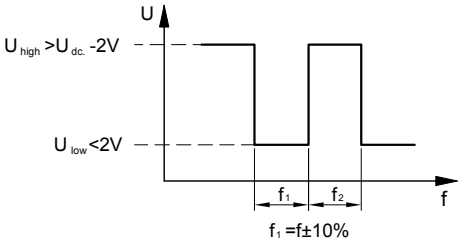
This performance is applicable for all motors of OS series. The main technical features correspond to the standard motors series OS.

DIFFERENTIAL HALL SENSOR

TECHNICAL DATA

Frequency range	3...20 000 Hz
Output	PNP
Power supply	10...36 VDC
Current input	20 mA (@24 VDC)
Current load	500 mA (@24 VDC;24°C)
Ambient Temperature	minus 40... plus 125°C
Protection	IP 67
Plug connector	M12-Series
Mounting principle	ISO 6149
Pulses per revolution	54

OUTPUT SIGNAL

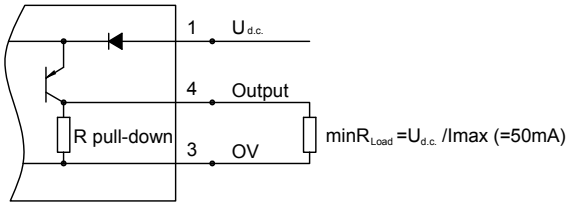


$f_1 = f \pm 10\%$

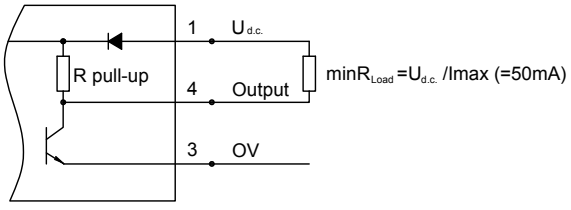
Load max.: $I_{high} = I_{low} < 50mA$
No load current, max: 20 mA

WIRING DIAGRAM

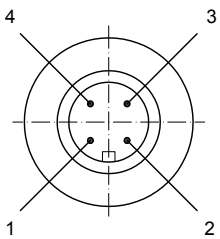
PNP



NPN



STICK TYPE



Terminal No.	Connection
1	Ud.c.
2	No connection
3	0V
4	Output signal

ORDER CODE

	1	2	3	4	5	6	7	8	9	10	11
OS											

1	Mounting Flange
omit	SAE A mount, four holes
A	SAE A mount, two holes
F	Magneto mount, four holes
Q	Square mount, four holes
B	Motor with drum brake
S	Short mount
U	Ultra short mount
W	Wheel mount

2	Port type
omit	Side ports
E	Rear ports

3	Displacement code
80	80,5 [cm³/rev]
100	100,0 [cm³/rev]
125	125,7 [cm³/rev]
160	159,7 [cm³/rev]
200	200,0 [cm³/rev]
250	250,0 [cm³/rev]
315	314,9 [cm³/rev]
400	397,0 [cm³/rev]
475	474,6 [cm³/rev] (w/o Function diagram)
525	522,7 [cm³/rev] (w/o Function diagram)
565	564,9 [cm³/rev] (w/o Function diagram)

4	Shaft Extensions
B	Ø25 mm straight
C	ø32 straight, Parallel key A10x8x45 DIN6885
CO	ø1 1/4" straight, Parallel key 5/16"x5/16"x1 1/4" BS46
K	ø35 tapered 1:10, Parallel key B6x6x20 DIN6885
SL	ø34,85 p.t.o. DIN 9611 Form 1
SH	ø1 1/4" splined 14T ANSI B92.1 - 1976

5	Ports
omit	BSPP (ISO 228)
M	Metric (ISO 262)

6	Actuating Direction **
R	Right
L	Left

7	Speed Monitoring
omit	none
T	with tacho connection (only for side ports)
RS-P	with speed sensor (PNP pull-down resistor)
RS-N	with speed sensor (NPN pull-up resistor)

8	Special Features (see Specification data on page OS - 03)
omit	none
LL	Low Leakage
LSV	Low Speed Valve

9	Rotation
omit	Standard Rotation
R	Reverse Rotation

10	Option (Paint)
omit	no paint
P	Painted
PC	Corrosion Protected Paint

11	Design Series
omit	Factory specified

The permissible output torque for shafts must be not exceeded!

** Only for OSB motors