

Applications:
-Agricultural harvesters and seeders
-Conveyors
-Machine tools
-Food industries
-Turn equipment
-Brush drivers
-Sweepers and floor polishers
-Screw drivers
-and more

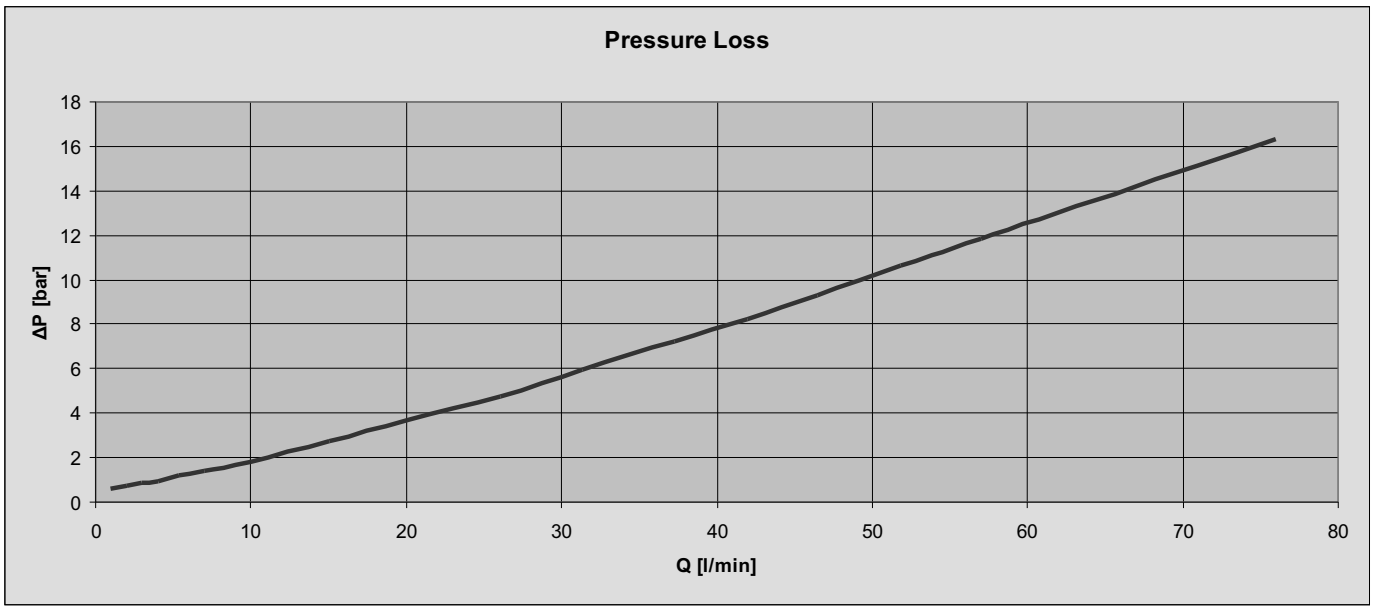
MHL motors are created for medium duty applications on the basis of a spool valve that is optimized for a higher efficiency, and a G-rotor. The check valves built-in the motor can reduce the pressure in the internal area to the return line pressure.
The motor can be made in versions with seals for low, for high pressure or extremely high pressure.

Displacement	[cm^3/rev.]	50 ÷ 400
Maximum pressure	[bar]	175
Maximum oil flow	[lpm]	25 ÷ 60
Maximum speed	[RPM]	1200
Maximum torque	[daNm]	9.4 ÷ 37.5
Minimum speed	[RPM]	10
Temperature range	[°C]	-30 ÷ 90
Viscosity range	[mm^2/s]	20 ÷ 75
Filtration		20/16 ISO 4406 (recommended filtration 25µ)

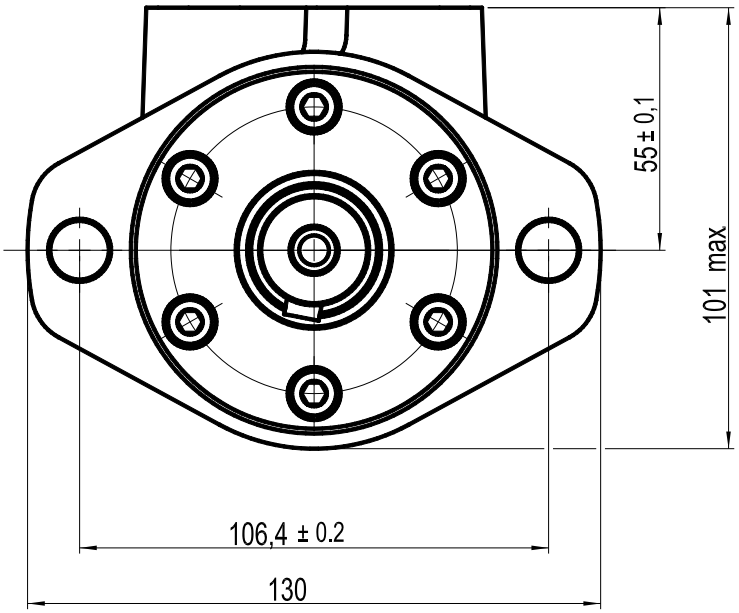
PERFORMANCE DATA

Type		MHL 50	MHL 80	MHL 100	MHL 125	MHL 160	MHL 200	MHL 250	MHL 315	MHL 400
Displacement [cm^3/rev.]		49.7	79.2	101.2	122.8	159.3	200.8	249.7	314.6	398
Max. Speed	Cont.	1200	750	600	480	375	300	240	190	150
	Int.*	1500	940	750	600	470	375	300	230	180
Max. Torque [daNm]	Cont.	9,4	15	18,5	23,9	30,5	37	37,5	38	36
	Int.*	11,8	19	23	29	37	45	55	56	58
Max. Output [KW]	Cont.	10	10	10	10	10	9,5	7,5	5,9	4,5
	Int.*	12	12	12	12	12	11	11	8,6	7,8
Max. Oil Flow [l/min]	Cont.	60	60	60	60	60	60	60	60	60
	Int.*	75	75	75	75	75	75	75	75	75
Max. Pressure Drop [bar]	Cont.	140	140	140	140	140	140	110	90	70
	Int.*	175	175	175	175	175	175	175	140	115
	Peak**	225	225	225	225	225	225	225	200	180
Max. Inlet/Return Pressure [bar]	Cont.	175	175	175	175	175	175	175	175	175
	Int.*	200	200	200	200	200	200	200	200	200
	Peak**	225	225	225	225	225	225	225	225	225
Min. Speed [RPM]		10	10	10	10	10	10	10	10	10

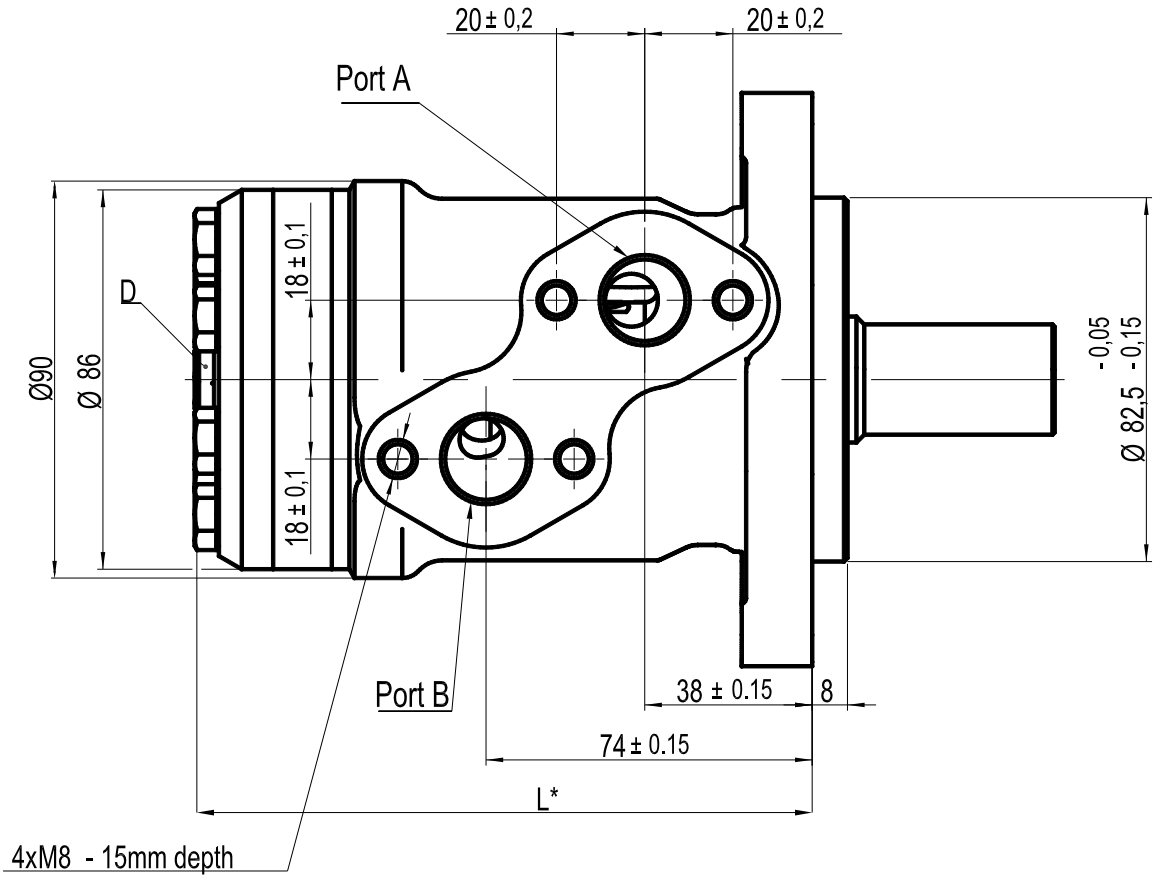
* Intermittent duty must not exceed 10% of every minute
** Peak duty must not exceed 1% of every minute



MOUNTING



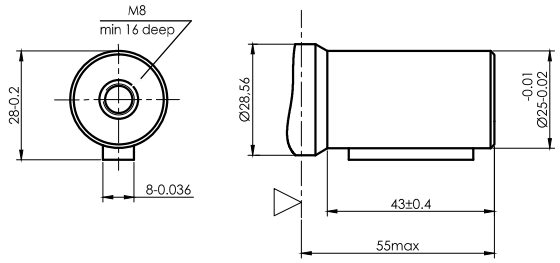
Type	L* [mm]	Weigh [Kg]
MHL 50 …	133	6
MHL 80 …	136	6,1
MHL 100 …	140	6,3
MHL 125 …	144	6,4
MHL 160 …	149	6,6
MHL 200 …	152	6,7
MHL 250 …	159	6,9
MHL 315 …	165	7,2
MHL 400 …	178	7,6



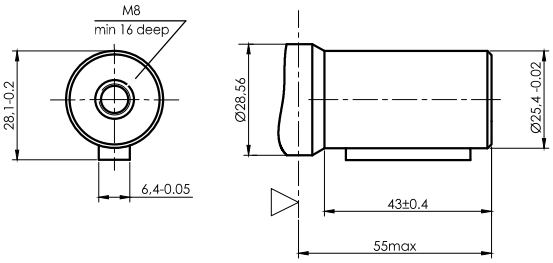
Port(A,B): 2xG1/2 or 2xM22x1,5 - 15mm depth
Port(D):G1/4 or M14x1,5 -12mm

SHAFTS

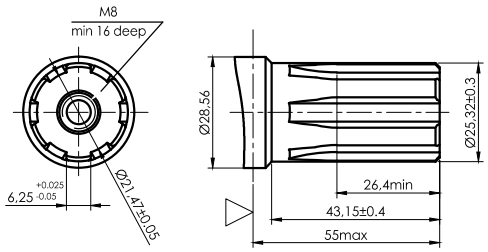
S - Parallel key A8x7x32 DIN 6885
Max. torque 34daNm



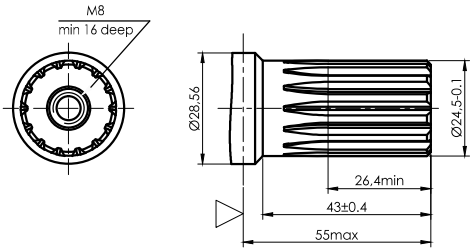
SC - Parallel key ¼" x¼" x 1¼" BS46
Max. torque 34daNm



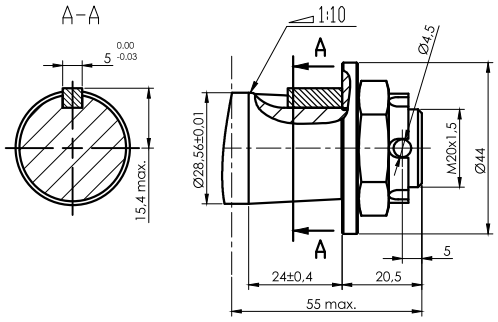
SB - Splined, BS 2059, Deep splines 1', Fit 2
Max. torque 40daNm



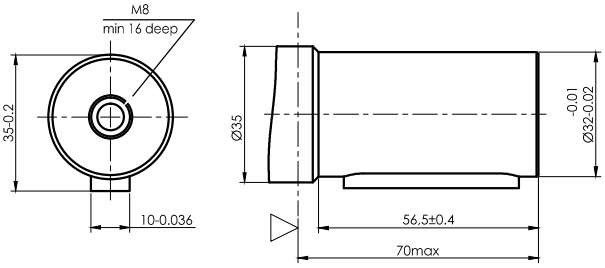
SE - Splined DIN 5482, B25x22 h9
Max. torque 40daNm



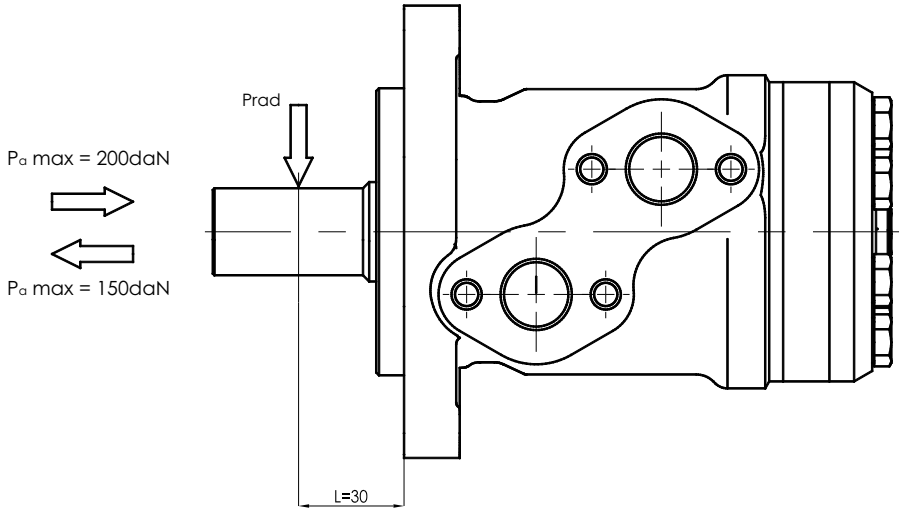
SK - Tapered 1:10, Parallel key B5x5x14 DIN 6885
Max. torque 40daNm

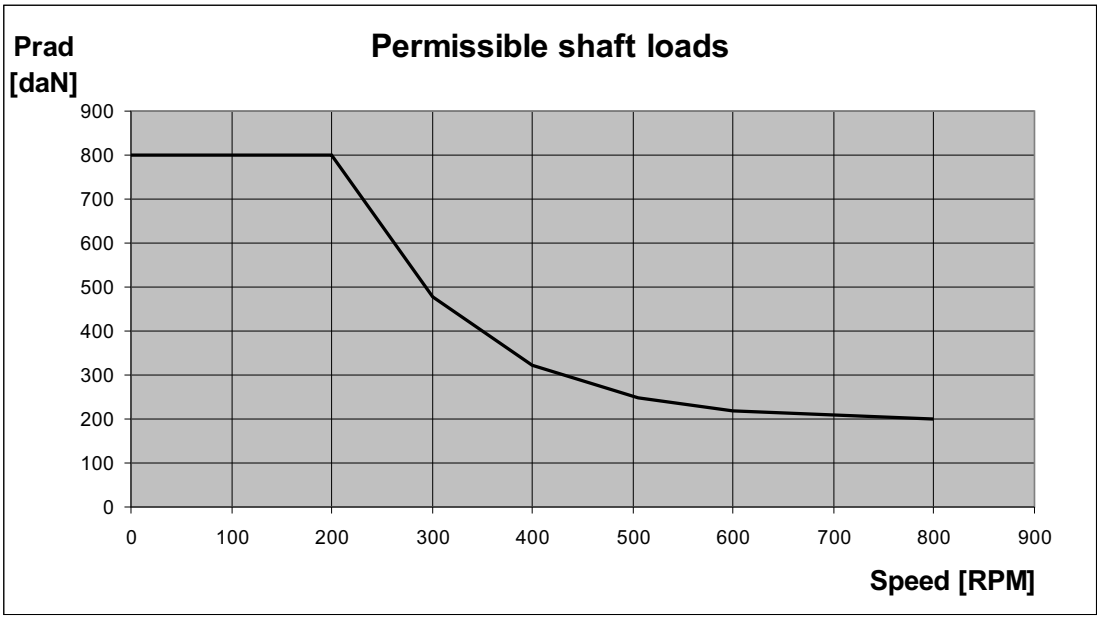


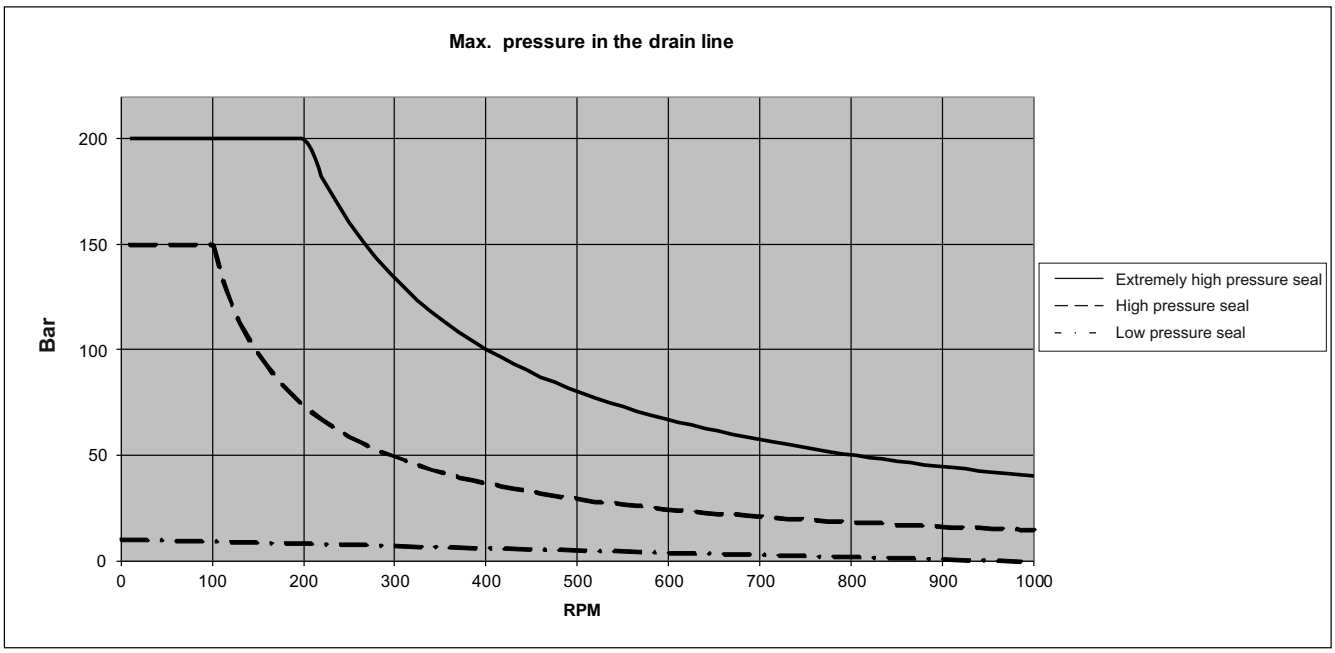
B - Parallel key A10x8x45 DIN 6885
Max. torque 77daNm



TECHNICAL DATA

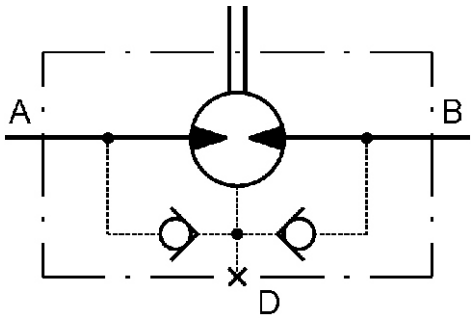




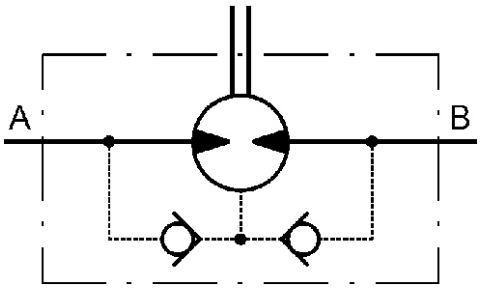


TECHNICAL DATA

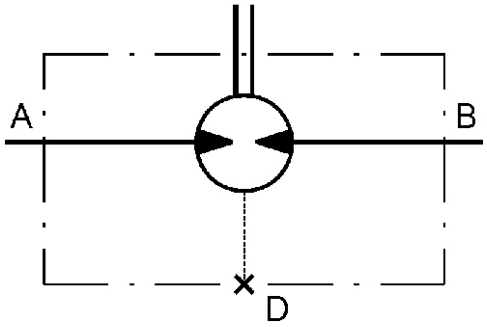
The motors can be made with or without check valves. If drain pressure exceed the rate of figure, the drain line must be connected.
An option with a seal for low pressure can be chosen if the drain port is connected or the motor operates separately or in parallel circuit.
An option with a seal for high pressure or extremely high pressure should be chosen in case the motor operates in series connection and the drain port is not connected.
In any case, the connection of the drain port is recommended for prolonging the validity term of the shaft seal.



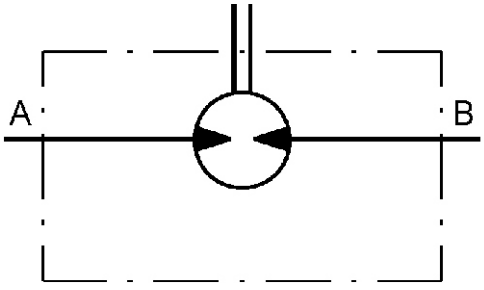
..MHL...12, motors with low pressure seal and high pressure seal.
The shaft seal pressure equals the pressure in the drain line.



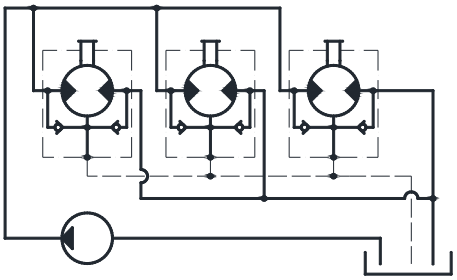
..MHL...1, motors with low pressure seal and high pressure seal.
The shaft seal pressure never exceeds the pressure in the return line.



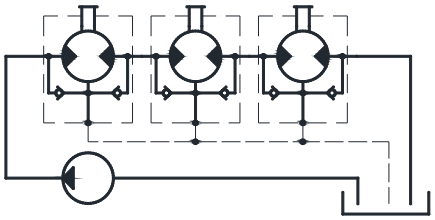
..MHL...2, motors with extremely high pressure seal.
The shaft seal pressure equals the pressure in the drain line.



..MHL..., motors with extremely high pressure seal.
The shaft seal pressure equals the average of input pressure and return pressure.



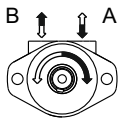
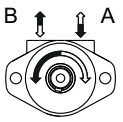
Parallel connection



Series connection

ORDERING CODE

MHL

1MHL	2MHL
Standard Rotation 	Reverse Rotation 

CODE	Displacement cm^3/rev
50	49.7
80	79.2
100	101.2
125	122.8
160	159.3
200	200.8
250	249.7
315	314.6
400	398

CODE	Check valves
1	with
omit	without

CODE	Drain port
2	with
omit	without

CODE	Ports
G	G1/2"
M	M22x1,5

CODE	Shaft seal
omit	Low pressure or for “B” shaft
H	High pressure
Y	Extremely high pressure

CODE	Shafts
S	Ø25mm straight, Parallel key A8x7x32 DIN6885
SC	Ø25,4mm straight, Parallel key 1/4"x1/4"x11/4" BS46
SB	Ø25,32mm Splined, BS2059
SE	Ø24,5mm Splined B25x22 h9, BS5482
SK	Ø28,56mm Tapered 1:10, Parallel key B5x5x14 DIN6885
B	Ø32mm straight, Parallel key A10x8x45 DIN6885

CODE	Special features
T	Painted(standard color RAL9005)*
TC3	Painted, class C3-DIN EN ISO12944 (standard color RAL9005)*
SP	Speed sensor

* Colour at customer’s request.