

GMS-Planetenmotoren



Anwendung

- Förderbänder
- Metallbearbeitungsmaschinen
- Werkzeugmaschinen
- Mobile Arbeitsmaschinen
- Baumaschinen
- Landmaschinen
- u.a.

Bauweise und Ausführungen

- Modell: Axialverteilterventil, Planetenrollersatz
- Flansch: SAE A, Magneto-, Quadrat- oder Radflansch
- Anschlüsse: Hinten oder seitlich, metrisches oder BSPP Gewinde
- Welle: Zylindrisch, konisch oder verzahnt
- Motor mit Trommelbremse

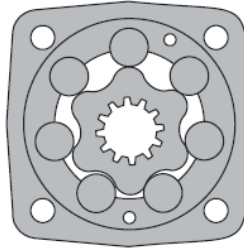
- Motor mit Tachowelle
- Drehzahlsensorik
- Sonderausführungen

Application

- Conveyors
- Metal working machines
- Machine tools
- Special vehicles
- Road buliding machines
- Agriculture machines
- etc.

Construction and options

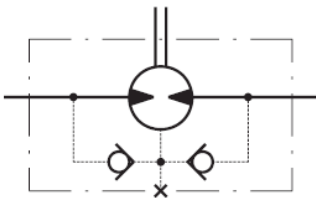
- Model: Disc valve, roll-gerotor
- Flange: SAE A, Magneto-, square- or wheelflange
- Ports: Rear or side ports, metric or BSPP threaded ports
- Shafts: Cylindrical, tapered or splined
- Motor with drum brake
- Motor with tacho connection
- Speed sensing
- Other special features



GMS-Planetenmotoren

Max. Schluckvolumen	Max. Displacement	cm ³ /U	ccm/rev	[in ³ /rev]	80,5 - 564,9 [4.91 - 34.47]
Max. Drehzahl	Max. Speed	U/min	RPM		1000
Max. Drehmoment	Max. Torque	daNm		[in-lb]	85 [7520]
Max. Leistungsabgabe	Max. Output	kW		[HP]	23 [30.8]
Max. Druckgefälle	Max. Pressure drop	bar		[PSI]	210 [3050]
Max. Ölstrom	Max. Oil flow	l/min	lpm	[GPM]	90 [24]
Min. Drehzahl	Min. Speed	U/min	RPM		5
Hydrauliköl	Pressure fluid				HLP (DIN 51524) oder or HM (ISO 6743/4)
Öltemperatur	Temperature range	°C		[°F]	-40 - 140 [-40 - 284]
Optimalviskosität	Optimal viscosity range	mm ² /s		[SUS]	20 - 75 [98 - 347]
Filtrierung	Filtration				ISO Code 20/16 (min. empfohlene Filtrierung recommended filtration 25 µm)

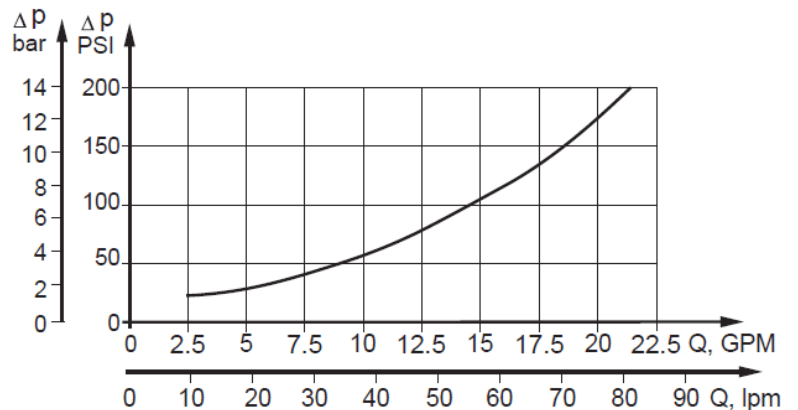
Schaltzeichen *Graphic symbol*

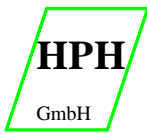


Ölstrom in der Leckleitung *Oil flow in drain line*

Druckgefälle Pressure drop bar [PSI]	Viskosität Viscosity mm ² /s [SUS]	Ölstrom Oilflow l/min lpm [GPM]
140 [2030]	20 [98]	1,5 [.396]
	35 [164]	1,0 [.264]
210 [3045]	20 [98]	3,0 [.793]
	35 [164]	2,0 [.528]

Druckverlust *Pressure losses*





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Technische Daten

GMS-Planetenmotoren

		80	100	125	160	200
Schluckvolumen <i>Displacement</i> cm ³ /U <i>ccm/rev</i> [in ³ /rev]		80,5 [4.91]	100,0 [6.10]	125,7 [7.67]	159,7 [9.74]	200,0 [12.20]
Max. Drehzahl <i>Max. Speed</i> U/min <i>RPM</i>	Dauerbetrieb <i>Continuous working</i>	810	750	600	470	375
	Intermittierend* <i>Intermittent *</i>	1000	900	720	560	450
Max. Drehmoment <i>Max. Torque</i> daNm [lb-in]	Dauerbetrieb <i>Continuous working</i>	24,0 [2120]	30,5 [2700]	37,5 [3320]	49,0 [4340]	61,0 [5400]
	Intermittierend* <i>Intermittent *</i>	31,0 [2740]	39,0 [3450]	49,0 [4380]	60,0 [5310]	72,0 [6370]
Max. Leistungsabgabe <i>Max. Output</i> kW [HP]	Dauerbetrieb <i>Continuous working</i>	15,5 [20.8]	18,0 [24.1]	18,0 [24.1]	16,5 [22.1]	16,5 [22.1]
	Intermittierend* <i>Intermittent *</i>	19,5 [26.2]	22,8 [30.2]	22,5 [30.2]	23,0 [30.8]	22,0 [29.5]
Max. Druckgefälle <i>Max. Pressure drop</i> bar [PSI]	Dauerbetrieb <i>Continuous working</i>	210 [3050]	210 [3050]	210 [3050]	210 [3050]	210 [3050]
	Intermittierend* <i>Intermittent *</i>	275 [3990]	275 [3990]	275 [3990]	275 [3990]	275 [3990]
	Spitze ** <i>Peak **</i>	295 [4280]	295 [4280]	295 [4280]	295 [4280]	295 [4280]
Max. Ölstrom <i>Max. Oil flow</i> l/min <i>lpm</i> [GPM]	Dauerbetrieb <i>Continuous working</i>	65 [17]	75 [20]	75 [20]	75 [20]	75 [20]
	Intermittierend* <i>Intermittent *</i>	80 [21]	90 [24]	90 [24]	90 [24]	90 [24]
Max. Eingangsdruck <i>Max. Inlet pressure</i> bar [PSI]	Dauerbetrieb <i>Continuous working</i>	230 [3340]	230 [3340]	230 [3340]	230 [3340]	230 [3340]
	Intermittierend* <i>Intermittent *</i>	295 [4280]	295 [4280]	295 [4280]	295 [4280]	295 [4280]
	Spitze ** <i>Peak **</i>	300 [4350]	300 [4350]	300 [4350]	300 [4350]	300 [4350]
Max. Rücklaufdruck mit Leckölleitung <i>Max. Return pressure with drain line</i> bar [PSI]	Dauerbetrieb <i>Continuous working</i>	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
	Intermittierend* <i>Intermittent *</i>	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]
	Spitze ** <i>Peak **</i>	210 [3050]	210 [3050]	210 [3050]	210 [3050]	210 [3050]
Max. Anlaufdruck mit unbelasteter Welle <i>Max. starting pressure with unloaded shaft</i> bar [PSI]		12 [175]	10 [145]	10 [145]	8 [115]	8 [115]
Min. Anlaufmoment bei max. Druckgefälle <i>Min. starting torque at max. pressure</i> drop daNm [lb-in]	Dauerbetrieb <i>Continuous working</i>	18,0 [1590]	23,0 [2040]	29,0 [2570]	37,0 [3270]	47,0 [4160]
	Intermittierend* <i>Intermittent *</i>	23,5 [2080]	30,0 [2660]	38,0 [3360]	46,0 [4070]	56,0 [4960]
Min. Drehzahl *** <i>Min speed ***</i> U/min <i>RPM</i>		10	10	8	8	6

Gewicht

9,9 [21.8]	10,1 [22.2]	10,4 [22.9]	10,8 [23.8]	11,2 [24.7]
10,4 [22.9]	10,6 [23.3]	10,9 [24.0]	11,3 [24.6]	11,7 [25.8]
7,9 [17.4]	8,1 [17.8]	8,4 [18.5]	8,8 [19.4]	9,2 [20.2]
5,8 [12.8]	6,0 [13.2]	6,3 [13.9]	6,7 [14.8]	7,1 [15.6]
10,3 [22.7]	10,5 [23.2]	10,8 [23.2]	11,2 [24.7]	11,6 [25.6]
16,9 [37.3]	17,1 [37.7]	17,4 [38.3]	17,8 [39.2]	18,2 [41.1]



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Technische Daten

GMS-Planetenmotoren

		250	315	400	475	525	565
Schluckvolumen <i>Displacement</i> cm ³ /U <i>ccm/rev</i> [in ³ /rev]		250,0 [15.30]	314,9 [19.20]	397,0 [24.20]	474,6 [28.96]	522,7 [31.88]	564,9 [34.47]
Max. Drehzahl <i>Max. Speed</i> U/min <i>RPM</i>	Dauerbetrieb <i>Continuous working</i>	300	240	190	160	145	130
	Intermittierend* <i>Intermittent *</i>	360	290	230	190	175	160
Max. Drehmoment <i>Max. Torque</i> daNm [lb-in]	Dauerbetrieb <i>Continuous working</i>	72,0 [6370]	82,5 [7300]	86,5 [7660]	85,0 [7520]	85,0 [7520]	85,0 [7520]
	Intermittierend* <i>Intermittent *</i>	87,0 [7700]	100,0 [8850]	99,0 [8760]	99,0 [8760]	99,0 [8760]	99,0 [8760]
Max. Leistungsabgabe <i>Max. Output</i> kW [HP]	Dauerbetrieb <i>Continuous working</i>	14,5 [19.4]	15,0 [20.1]	11,0 [14.8]	8,4 [11.0]	7,6 [10.2]	6,9 [9.0]
	Intermittierend* <i>Intermittent *</i>	18,0 [24.1]	17,0 [22.8]	12,5 [16.8]	11,3 [15.0]	10,4 [13.9]	9,6 [13.0]
Max. Druckgefälle <i>Max. Pressure drop</i> bar [PSI]	Dauerbetrieb <i>Continuous working</i>	200 [2900]	200 [2900]	160 [2320]	130 [1880]	115 [1670]	105 [1520]
	Intermittierend* <i>Intermittent *</i>	250 [3630]	240 [3480]	190 [2760]	150 [2180]	135 [1960]	125 [1810]
	Spitze ** <i>Peak **</i>	270 [3920]	260 [3770]	210 [3050]	170 [2470]	155 [2250]	145 [2100]
Max. Ölstrom <i>Max. Oil flow</i> l/min <i>lpm</i> [GPM]	Dauerbetrieb <i>Continuous working</i>	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]	75 [20]
	Intermittierend* <i>Intermittent *</i>	90 [24]	90 [24]	90 [24]	90 [24]	90 [24]	90 [24]
Max. Eingangsdruck <i>Max. Inlet pressure</i> bar [PSI]	Dauerbetrieb <i>Continuous working</i>	230 [3340]	230 [3340]	230 [3340]	230 [3340]	230 [3340]	230 [3340]
	Intermittierend* <i>Intermittent *</i>	295 [4280]	295 [4280]	295 [4280]	295 [4280]	295 [4280]	295 [4280]
	Spitze ** <i>Peak **</i>	300 [4350]	300 [4350]	300 [4350]	300 [4350]	300 [4350]	300 [4350]
Max. Rücklaufdruck mit Leckölleitung <i>Max. Return pressure with drain line</i> bar [PSI]	Dauerbetrieb <i>Continuous working</i>	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]	140 [2030]
	Intermittierend* <i>Intermittent *</i>	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]	175 [2540]
	Spitze ** <i>Peak **</i>	210 [3050]	210 [3050]	210 [3050]	210 [3050]	210 [3050]	210 [3050]
Max. Anlaufdruck mit unbelasteter Welle <i>Max. starting pressure with unloaded shaft</i>	bar [PSI]	8 [115]	8 [115]	8 [115]	8 [115]	8 [115]	8 [115]
Min. Anlaufmoment bei max. Druckgefälle <i>Min. starting torque at max. pressure drop</i> daNm [lb-in]	Dauerbetrieb <i>Continuous working</i>	56,0 [4960]	71,0 [6280]	71,0 [6280]	71,0 [6280]	71,0 [6280]	71,0 [6280]
	Intermittierend* <i>Intermittent *</i>	70,0 [6200]	85,0 [7520]	84,0 [7430]	84,0 [7430]	84,0 [7430]	84,0 [7430]
Min. Drehzahl *** <i>Min speed ***</i>	U/min <i>RPM</i>	6	5	5	5	5	5

Gewicht

11,7 [25.8]	12,4 [27.3]	13,1 [29.3]	14,1 [31.0]	14,6 [32.2]	15,0 [33.1]
12,2 [26.9]	12,9 [28.4]	13,8 [30.4]	14,6 [32.2]	15,1 [33.3]	15,5 [34.1]
9,7 [21.4]	10,4 [22.9]	11,3 [24.9]	12,1 [26.7]	12,6 [27.8]	13,0 [28.6]
7,6 [16.7]	8,3 [18.3]	9,2 [20.2]	10,0 [22.0]	10,5 [23.1]	10,9 [24.0]
12,1 [26.7]	12,8 [28.2]	13,7 [30.2]	14,5 [32.0]	15,0 [33.1]	15,4 [33.9]
18,7 [41.2]	19,4 [42.7]	20,3 [44.7]	21,1 [46.5]	21,6 [47.6]	23,0 [48.5]

Bestellcode GMS.....

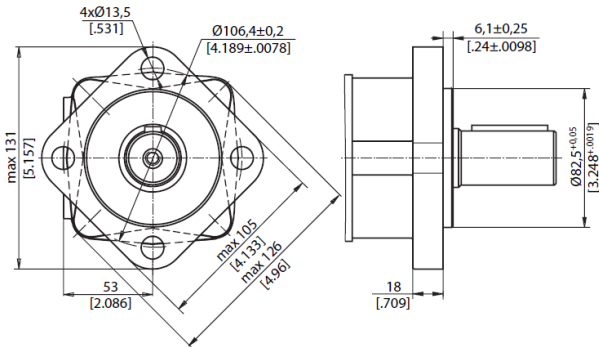
GMS	1	2	3	4	5	6	7	8
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Pos. 1	Montageflansch <i>Mounting flange</i>
frei omit	SAE A-4, vier Befestigungslöcher <i>SAE A-4, four holes</i>
A	SAE A-2, zwei Befestigungslöcher <i>SAE A-2, two holes</i>
F	Magnetoflansch, vier Befestigungslöcher <i>Magnetoflange, four holes</i>
Q	Quadratflansch, vier Befestigungslöcher <i>Square flange, four holes</i>
B	Motor mit Trommelbremse <i>Motor with drum brake</i>
S	Kurzeinbau <i>Short mount</i>
V	Sehr kurzer Einbau <i>Very short mount</i>
U	Ultra kurzer Einbau <i>Ultra short mount</i>
W	Radflansch <i>Wheel flange</i>
Pos. 2	Anschlusstyp <i>Port type</i>
frei omit	Seitenanschluss <i>Side ports</i>
E	Hintenanschluss <i>Rear ports</i>
Pos. 3	Schluckvolumen <i>Displacement</i>
80	80,5 cm ³ /U ccm/rev [4.91 in ³ /rev]
100	100,0 cm ³ /U ccm/rev [6.10 in ³ /rev]
125	125,7 cm ³ /U ccm/rev [7.67 in ³ /rev]
160	159,7 cm ³ /U ccm/rev [9.74 in ³ /rev]
200	200,0 cm ³ /U ccm/rev [12.20 in ³ /rev]
250	250,0 cm ³ /U ccm/rev [15.30 in ³ /rev]
315	314,9 cm ³ /U ccm/rev [19.20 in ³ /rev]
400	397,0 cm ³ /U ccm/rev [24.20 in ³ /rev]
475	474,6 cm ³ /U ccm/rev [28.96 in ³ /rev]
525	522,7 cm ³ /U ccm/rev [31.88 in ³ /rev]
565	564,9 cm ³ /U ccm/rev [34.47 in ³ /rev]

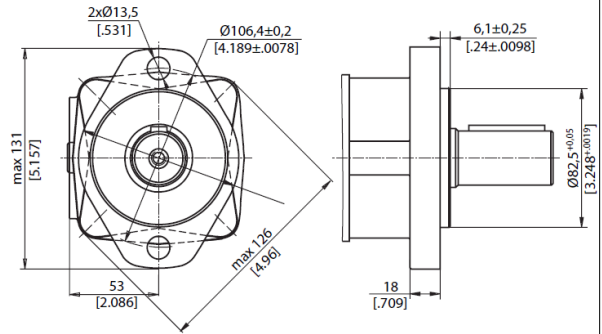
Pos. 4	Abtriebswelle * <i>Shaft *</i>
frei omit	Für B, S, U und V Flansch <i>For B, S, U and V flange</i>
C	Zylindrisch Ø32, Passfeder A10x8x45 DIN 6885 <i>Cylindrical Ø32, parallel key A10x8x45 DIN 6885</i>
CO	Zylindrisch Ø1 1/4", Passfeder 5/16" x 5/16" x 1 1/4" BS46 <i>Cylindrical Ø1 1/4", parallel key 5/16" x 5/16" x 1 1/4" BS46</i>
K	Konisch 1:10 Ø35, Passfeder B6x6x20 DIN 6885 <i>Tapered 1:10 Ø35, parallel key B6x6x20 DIN 6885</i>
SL	Zapfwelle Ø34,85, DIN 9611 Form 1 <i>P.T.O.-shaft Ø34,85, DIN 9611 Form 1</i>
SH	Verzahnt Ø1 1/4", 14 Zähne ANS B92.1-1970 <i>Splined Ø1 1/4", 14T ANS B92.1-1970</i>
SA	Verzahnt Ø7/8", 13 Zähne ANS B92.1-1970 <i>Splined Ø7/8", 13T ANS B92.1-1970</i>
Pos. 5	Anschlüsse <i>Ports</i>
frei omit	BSPP (ISO 228)
M	Metrisch <i>metric</i> (ISO 262)
Pos. 6	Lage des Bremshebels ** <i>Actuating direction **</i>
/R	Rechts <i>Right</i>
/L	Links <i>Left</i>
Pos. 7	Sonderausführungen <i>Special features</i>
RS	Drehzahlsensor <i>Speed sensor</i>
T	Tachowelle <i>Tacho connection</i>
LL	Geringeres Lecköl <i>Low Leakage</i>
LSV	Ventil für geringe Drehzahlen <i>Low speed valve</i>
R	Drehrichtung umgedreht <i>Reverse rotation</i>
P	Lackiert (Farbe auf Anfrage) <i>Paint (Colour on request)</i>
PC	Korrosionsschutzfarbe (Farbe auf Anfrage) <i>Corrosion protected paint (Colour on request)</i>
Pos. 8	Design Serie <i>Design series</i>
frei omit	Betriebspezifisch <i>Factory specified</i>

Pos. 1 Montageflansch *Mounting flange*

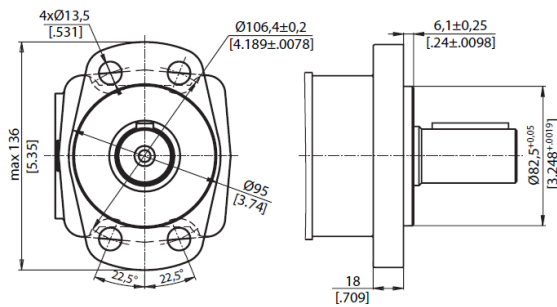
Standard: SAE A-4, vier Befestigungslöcher
Standard: SAE A-4, four holes



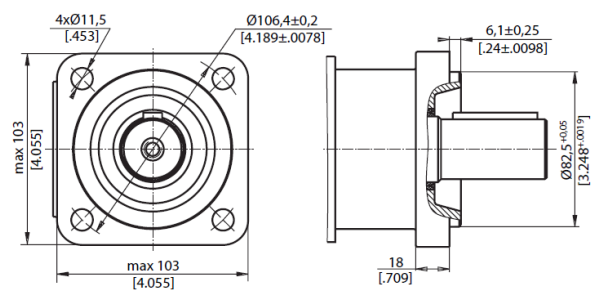
Option A: SAE A-2, zwei Befestigungslöcher
Option A: SAE A-2, two holes



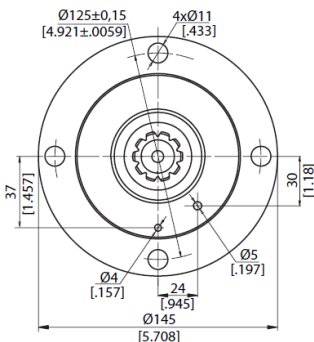
Option F: Magnetflansch, vier Befestigungslöcher
Option F: Magnetflange, four holes



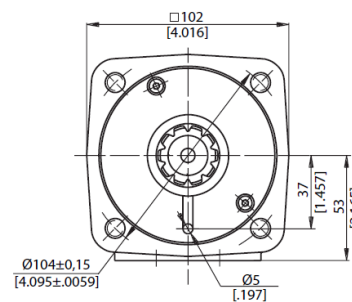
Option Q: Quadratflansch, vier Gewindebohrungen
Option Q: Square mount, four bolts



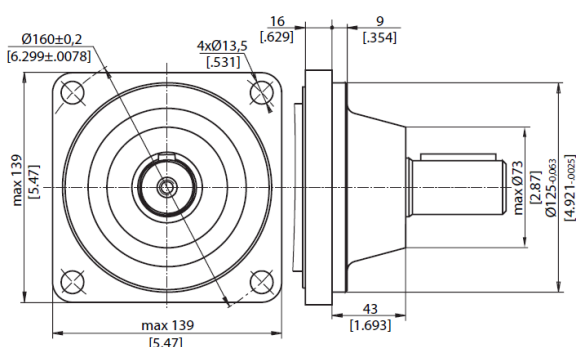
Option S: Kurzeinbau
Option S: Short mount



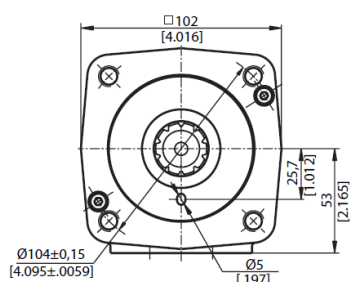
Option V: Sehr kurzer Einbau
Option V: Very short mount



Option W: Radflansch
Option W: Wheel flange

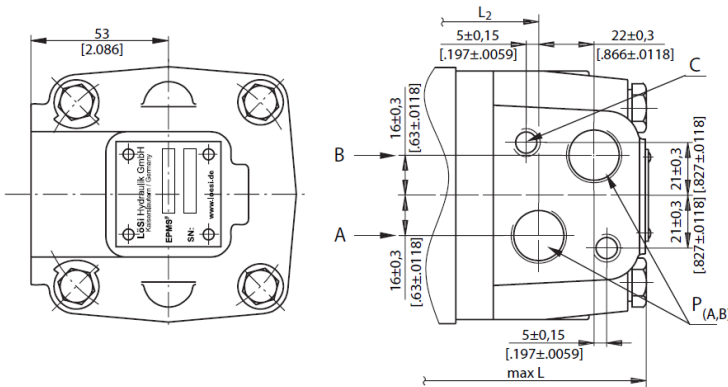


Option U: Ultra kurzer Einbau
Option U: Ultra short mount



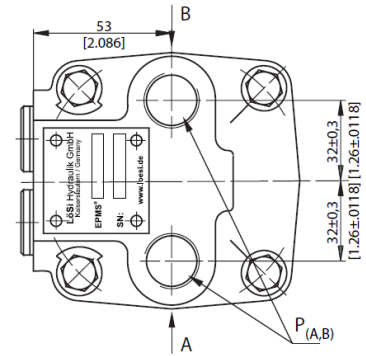
Pos. 2 Anschlussstyp Port type

Standard: Seitenanschluss
Standard: Side ports



C: 2xM10 - 12mm [.47 in] tief deep
P (A,B): 2xG1/2 oder or 2xM22x1,5 - 15mm [.59 in] tief deep
T: G1/4 oder or M14x1,5 - 12 mm [.47 in] tief deep

Option E: Hintenanschluss
Option E: Rear ports



Standard rotation
Viewed from shaft end
Port A pressurized- right running
Port B pressurized- left running

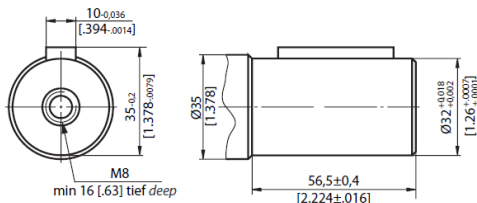
Standarddrehung
mit Blick auf Abtriebswelle
Druck auf Anschluss A - rechtsdrehend
Druck auf Anschluss B - linksdrehend

Reversierdrehung (Pos. 7 - Option R)
mit Blick auf Abtriebswelle
Druck auf Anschluss A - linksdrehend
Druck auf Anschluss B - rechtsdrehend

Reversierdrehung (Pos. 7 - Option R)
Viewed from shaft end
Port A pressurized- left running
Port B pressurized- right running

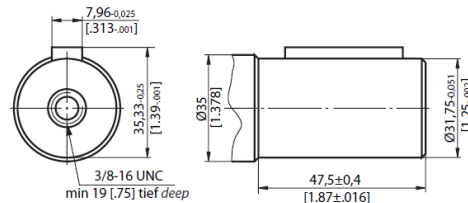
Pos. 4 Abtriebswelle Shaft

Option C: Zylindrisch Ø32 mm
Option C: Cylindrical Ø32 mm



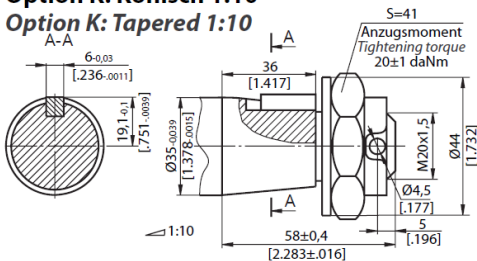
Max. Drehmomentabgabe 77 daNm [6815 lb-in]
Max. Torque 77 daNm [6815 lb-in]

Option CO: Zylindrisch Ø1 1/4"
Option CO: Cylindrical Ø1 1/4"



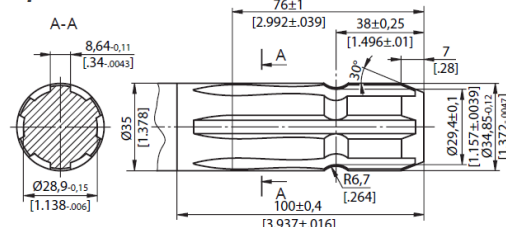
Max. Drehmomentabgabe 77 daNm [6815 lb-in]
Max. Torque 77 daNm [6815 lb-in]

Option K: Konisch 1:10
Option K: Tapered 1:10



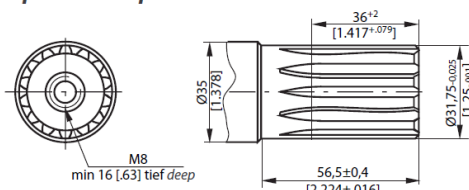
Max. Drehmomentabgabe 95 daNm [8400 lb-in]
Max. Torque 95 daNm [8400 lb-in]

Option SL: Zapfwelle DIN 9611 Form 1
Option SL: P.T.O. shaft DIN 9611 Form 1



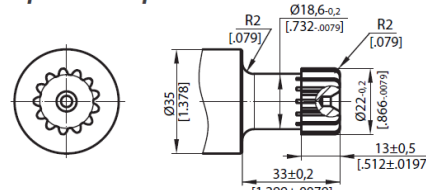
Max. Drehmomentabgabe 77 daNm [6815 lb-in]
Max. Torque 77 daNm [6815 lb-in]

Option SH: Verzahnt 14 Zähne ANS B92.1-1970
Option SH: Splined 14T ANS B92.1-1970



Max. Drehmomentabgabe 95 daNm [8400 lb-in]
Max. Torque 95 daNm [8400 lb-in]

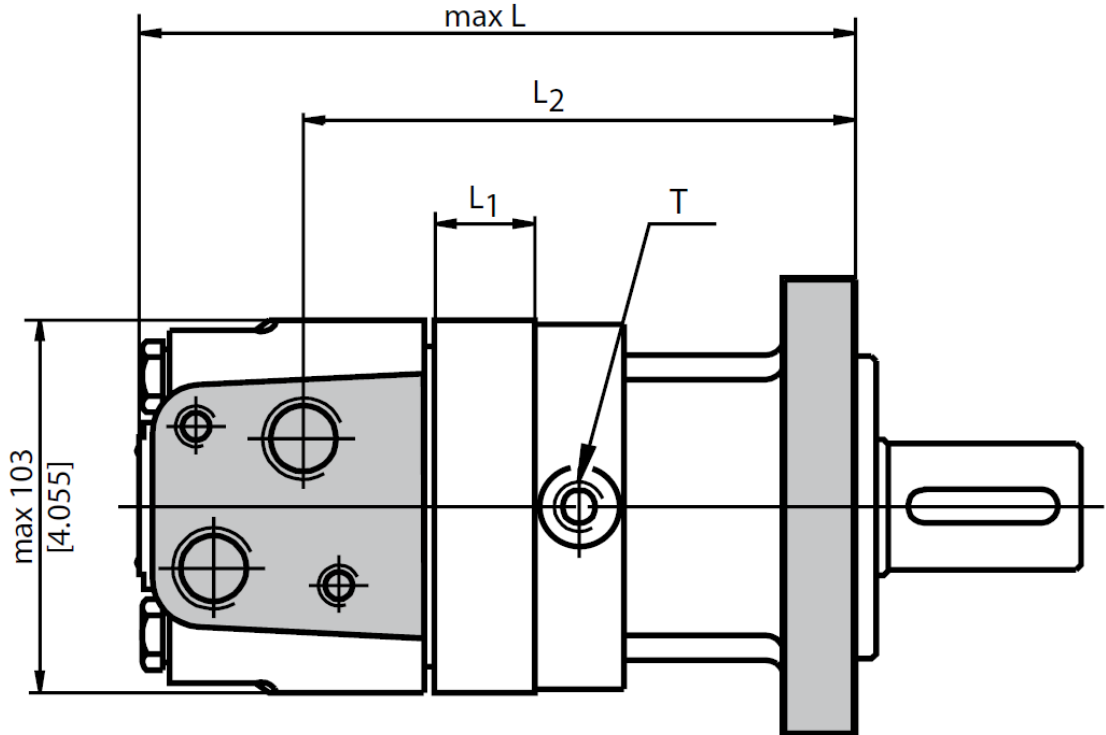
Option SA: Verzahnt 13 Zähne ANS B92.1-1970
Option SA: Splined 13T ANS B92.1-1970



Max. Drehmomentabgabe 20 daNm [1770 lb-in]
Max. Torque 20 daNm [1770 lb-in]

Pos. 3

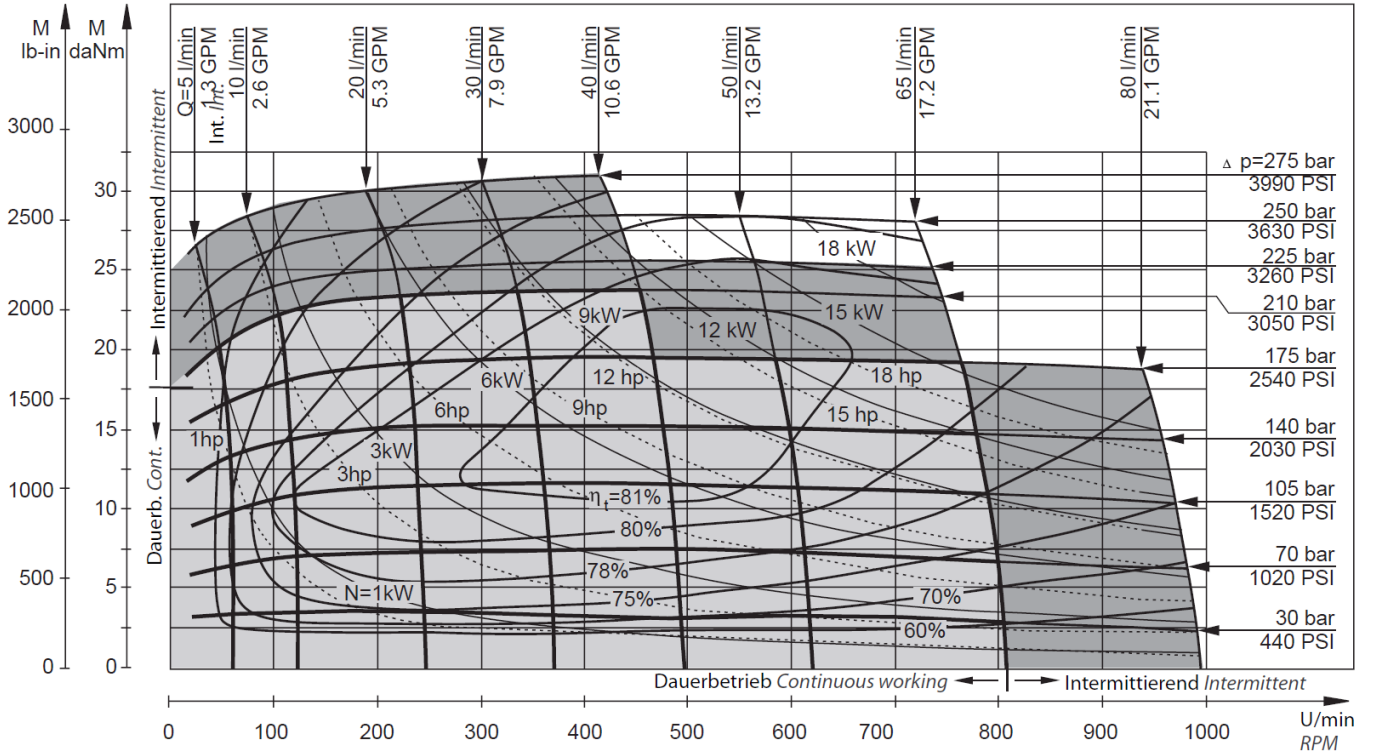
Abmaße



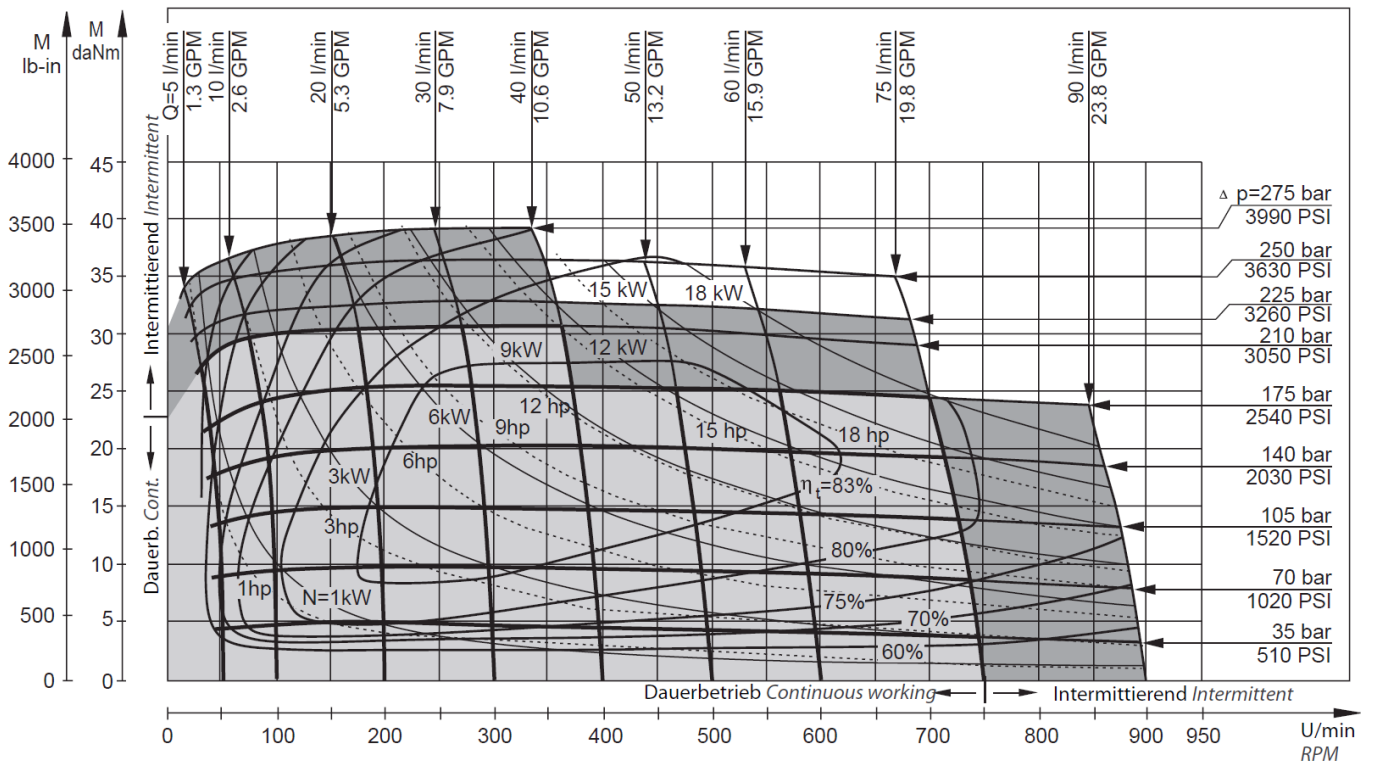
	L mm [in]	L ₂ mm [in]	L mm [in]	L ₂ mm [in]	L mm [in]	L ₂ mm [in]	L ₁ mm [in]
80	129,0 [5.08]	87,0 [3.43]	168,0 [6.61]	124,0 [4.88]	179,0 [7.05]	136,0 [5.35]	14,0 [.55]
100	133,0 [5.23]	91,0 [3.58]	171,0 [6.73]	128,0 [5.04]	183,0 [7.21]	140,0 [5.51]	17,4 [.69]
125	137,0 [5.39]	95,0 [3.74]	176,0 [6.93]	132,0 [5.20]	187,0 [7.36]	144,0 [5.67]	21,8 [.86]
160	143,0 [5.63]	101,0 [3.98]	182,0 [7.17]	138,0 [5.43]	193,0 [7.60]	150,0 [5.91]	27,8 [1.09]
200	150,0 [5.91]	108,0 [4.25]	189,0 [7.44]	145,0 [5.71]	200,0 [7.87]	157,0 [6.18]	34,8 [1.37]
250	159,0 [6.26]	117,0 [4.61]	197,0 [7.76]	154,0 [6.06]	209,0 [8.23]	166,0 [6.54]	43,5 [1.71]
315	170,0 [6.69]	128,0 [5.04]	209,0 [8.23]	165,0 [6.50]	220,0 [8.66]	177,0 [6.67]	54,8 [2.16]
400	184,0 [7.24]	143,0 [5.63]	223,0 [8.78]	179,0 [7.05]	235,0 [9.25]	192,0 [7.56]	69,4 [2.73]
475	198,0 [7.79]	156,0 [6.14]	237,0 [9.33]	193,0 [7.60]	247,0 [9.72]	205,0 [8.07]	82,6 [3.25]
525	190,0 [7.48]	148,0 [5.83]	229,0 [9.02]	185,0 [7.28]	240,0 [9.45]	197,0 [7.76]	74,5 [2.93]
565	196,0 [7.72]	154,0 [6.06]	235,0 [9.25]	191,0 [7.52]	246,0 [9.69]	203,0 [7.99]	80,2 [3.16]

Leistungsdiagramm

GMS80.....

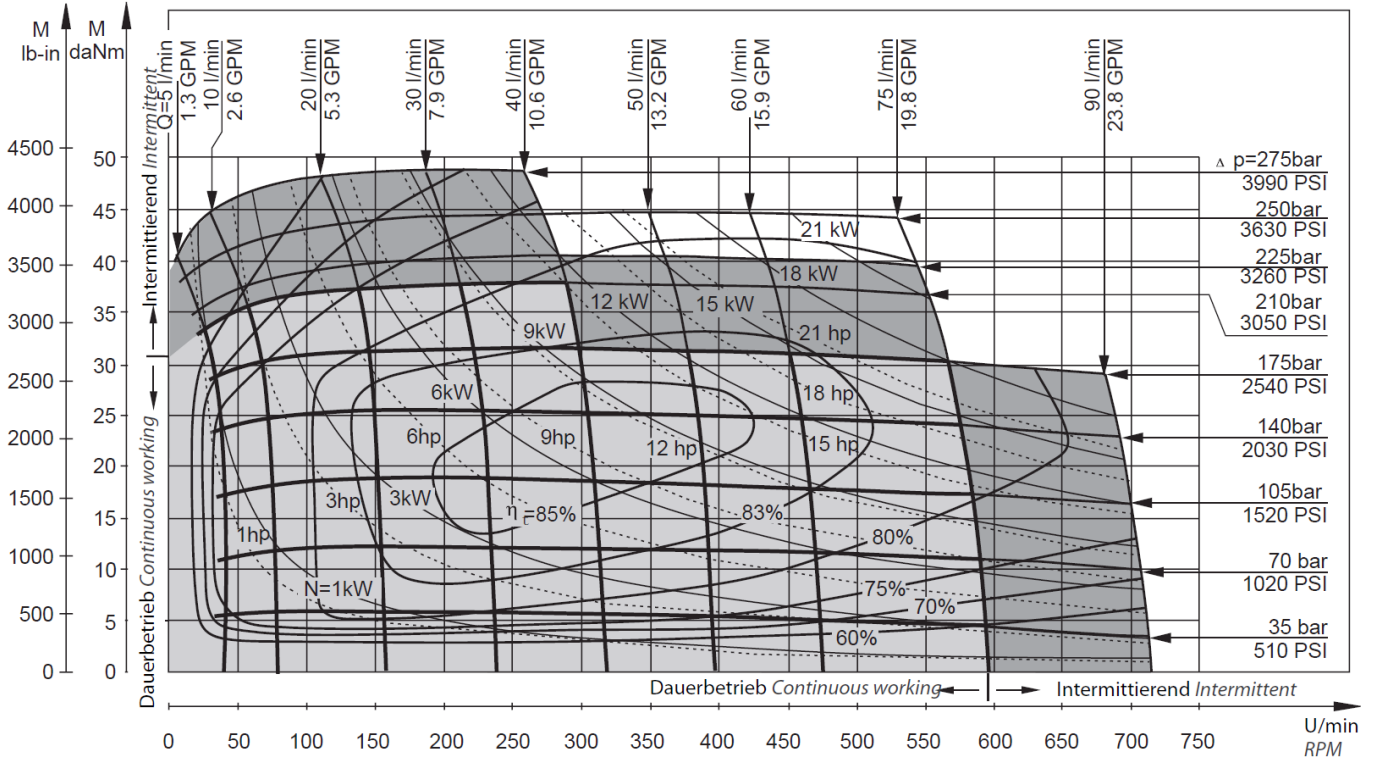


GMS100.....

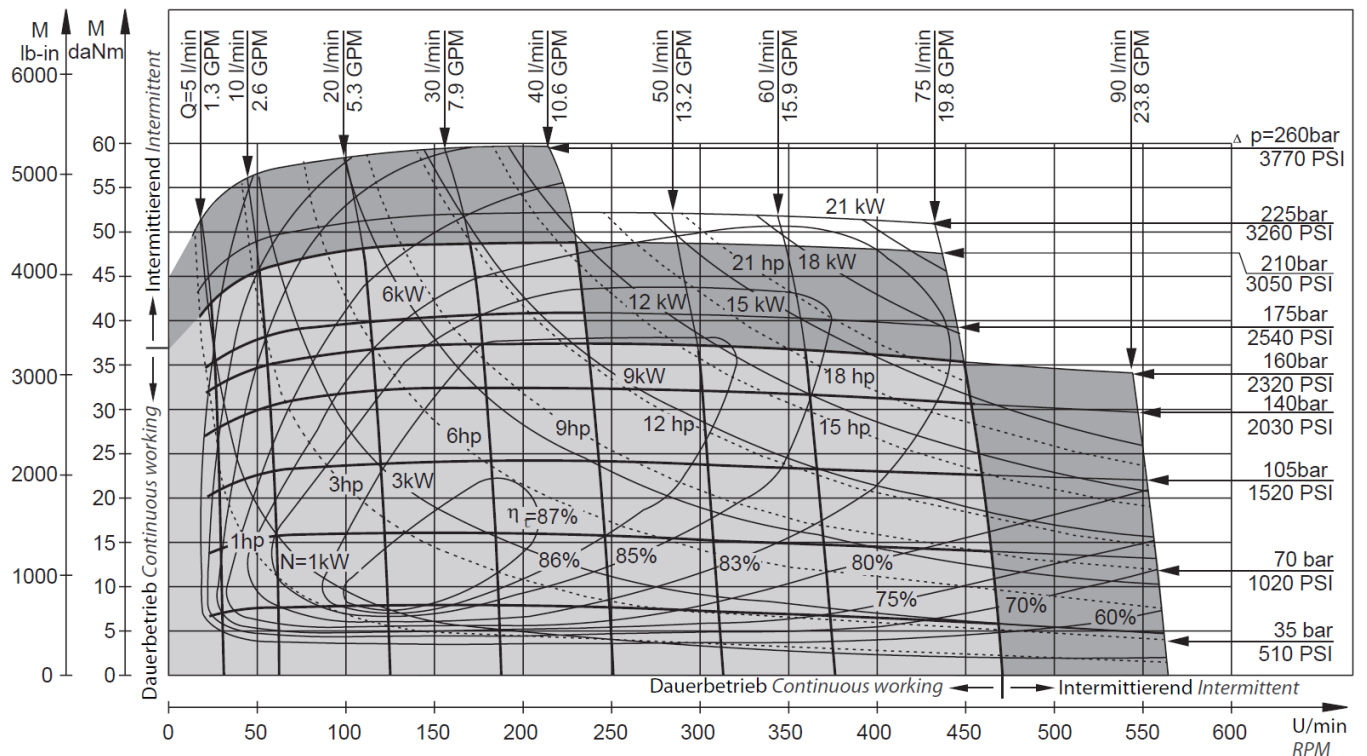


Leistungsdiagramm

GMS125.....

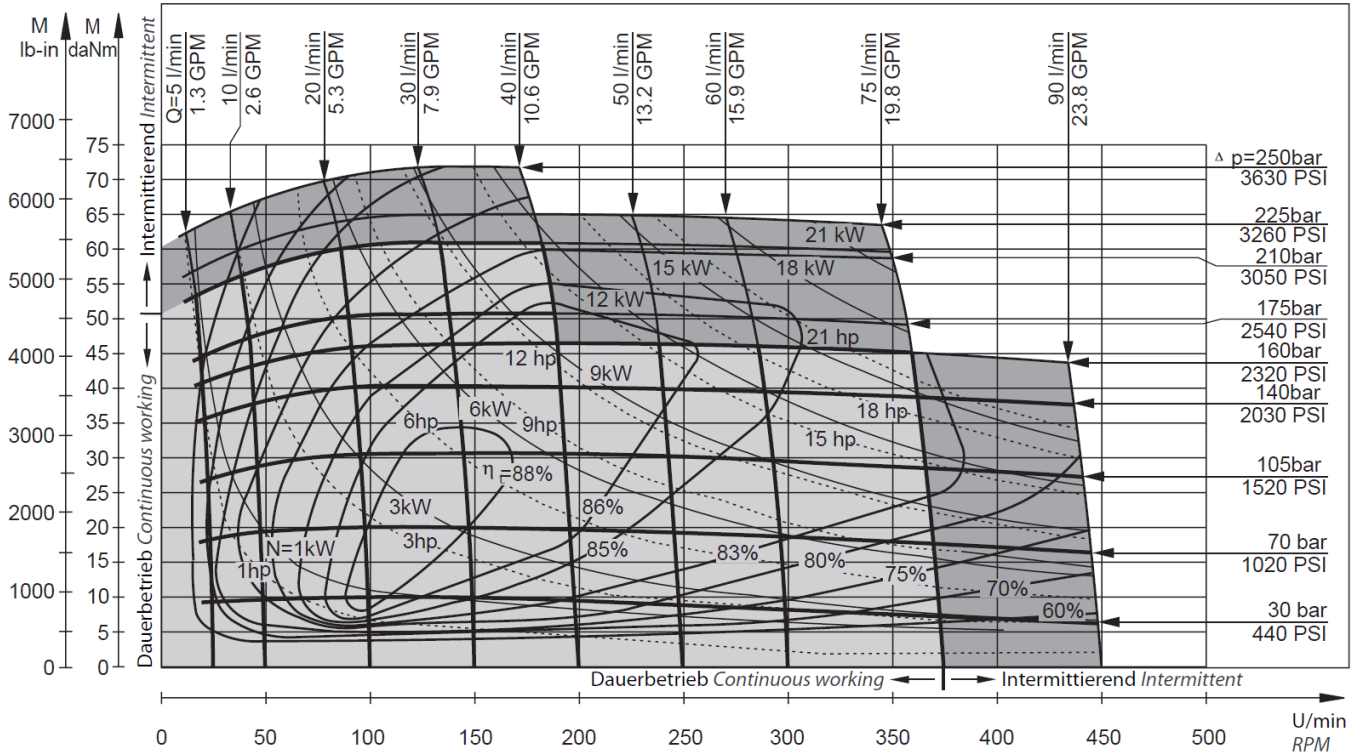


GMS160.....

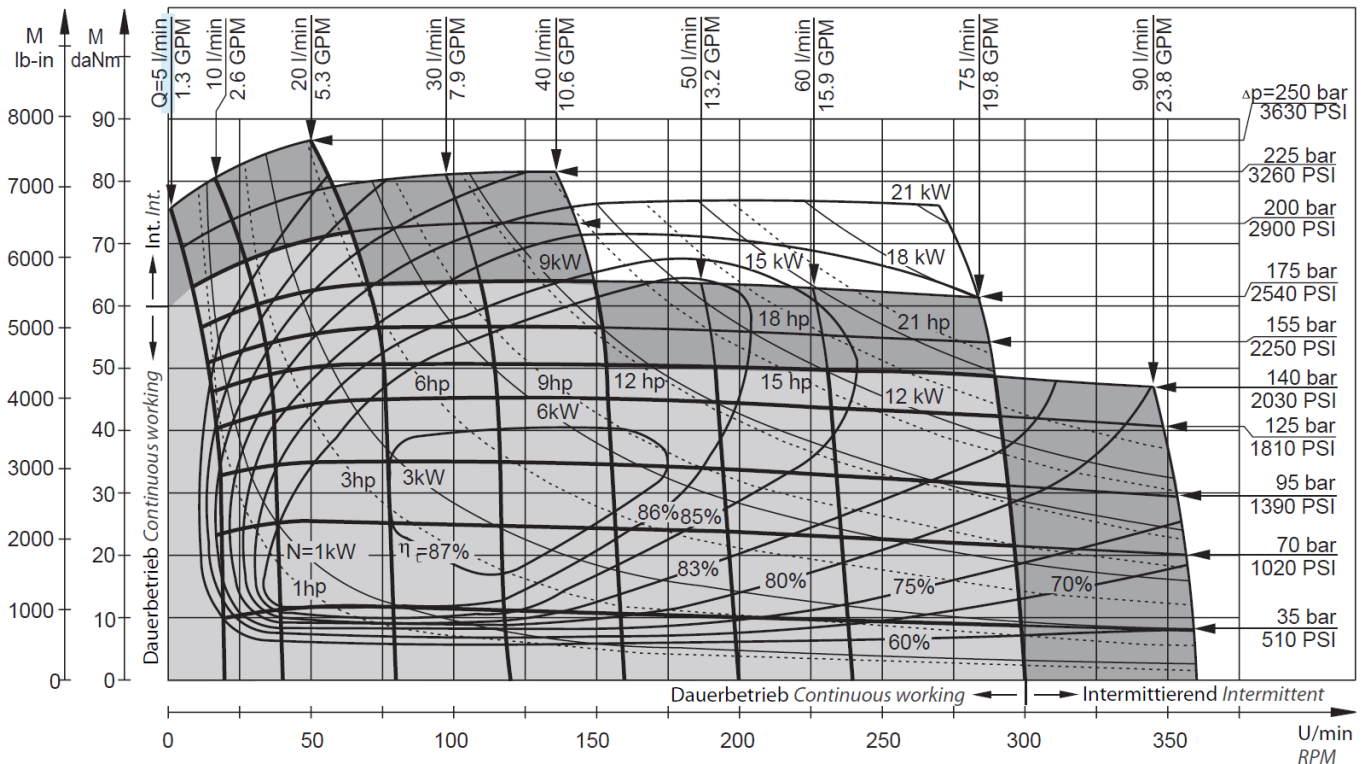


Leistungsdiagramm

GMS200.....

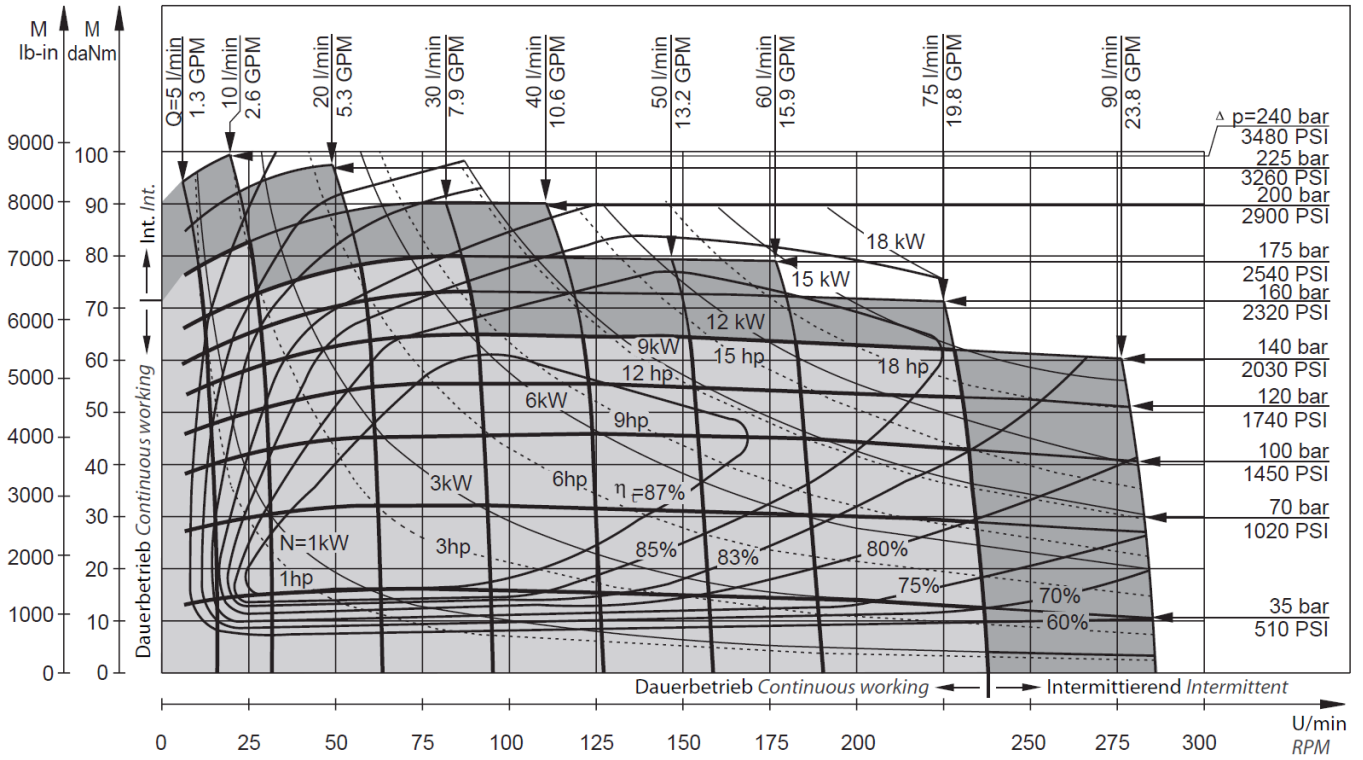


GMS250.....

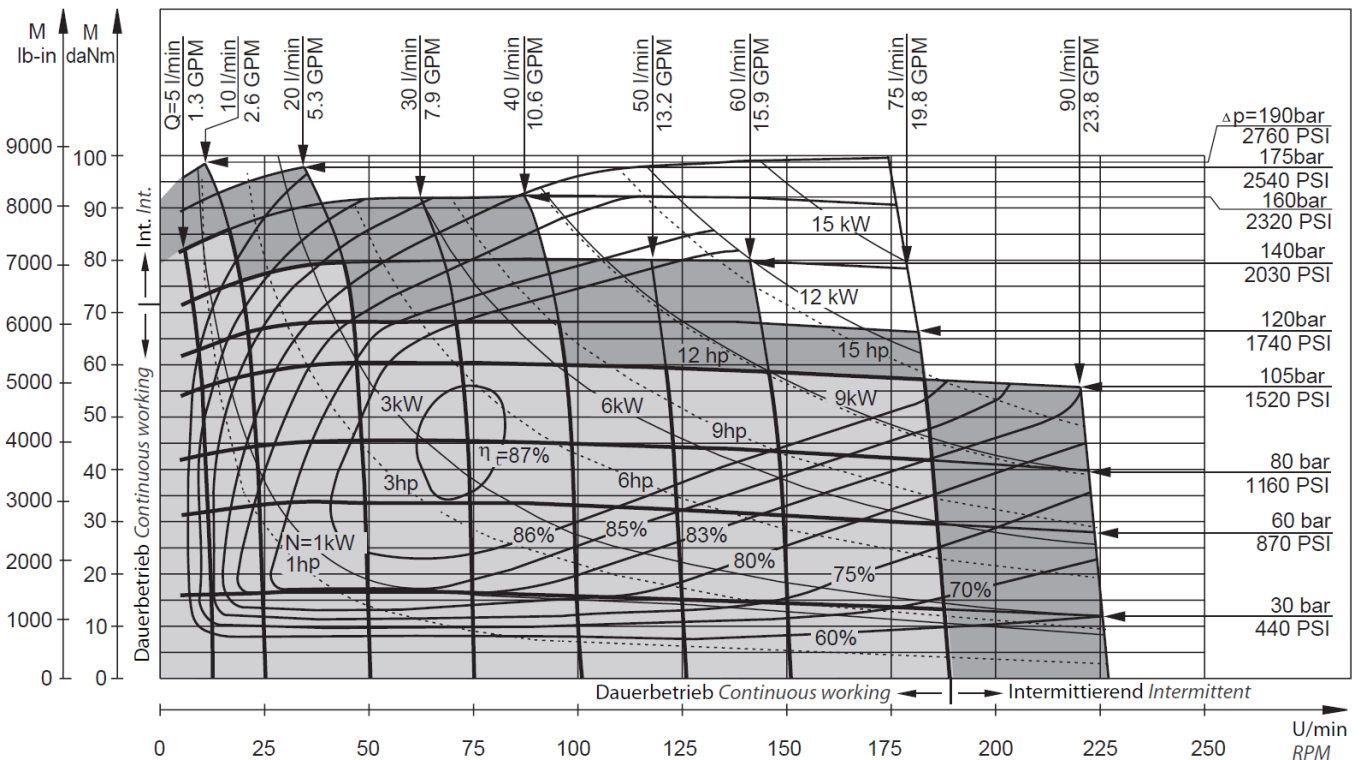


Leistungsdiagramm

GMS315.....

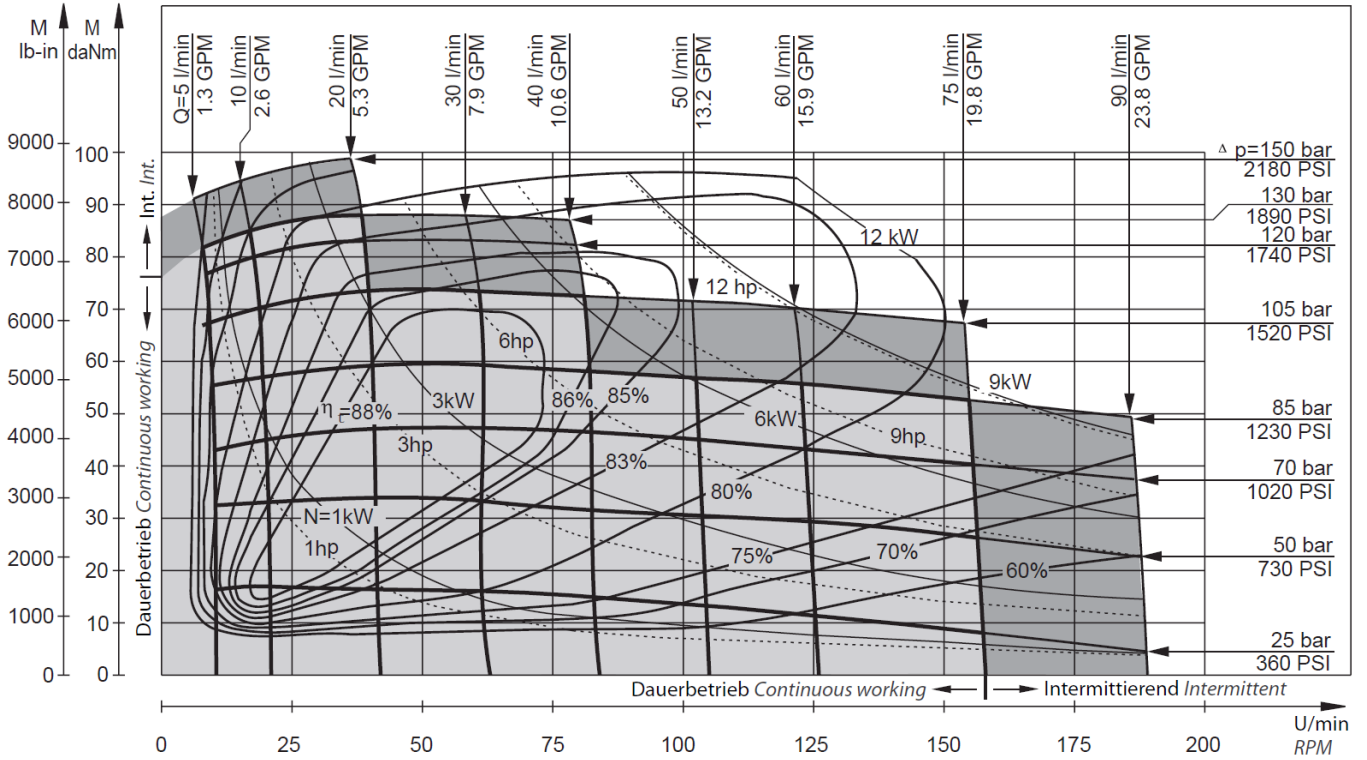


GMS400.....

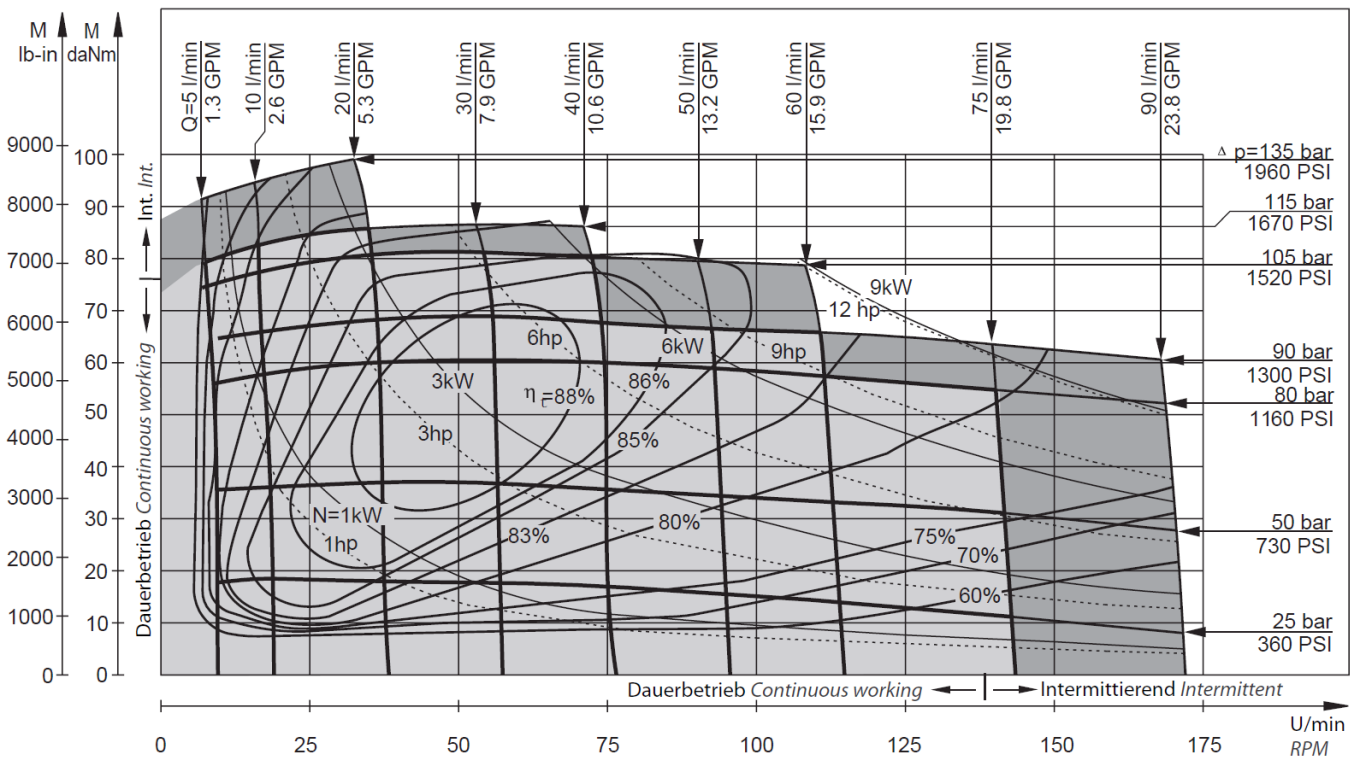


Leistungsdiagramm

GMS475.....

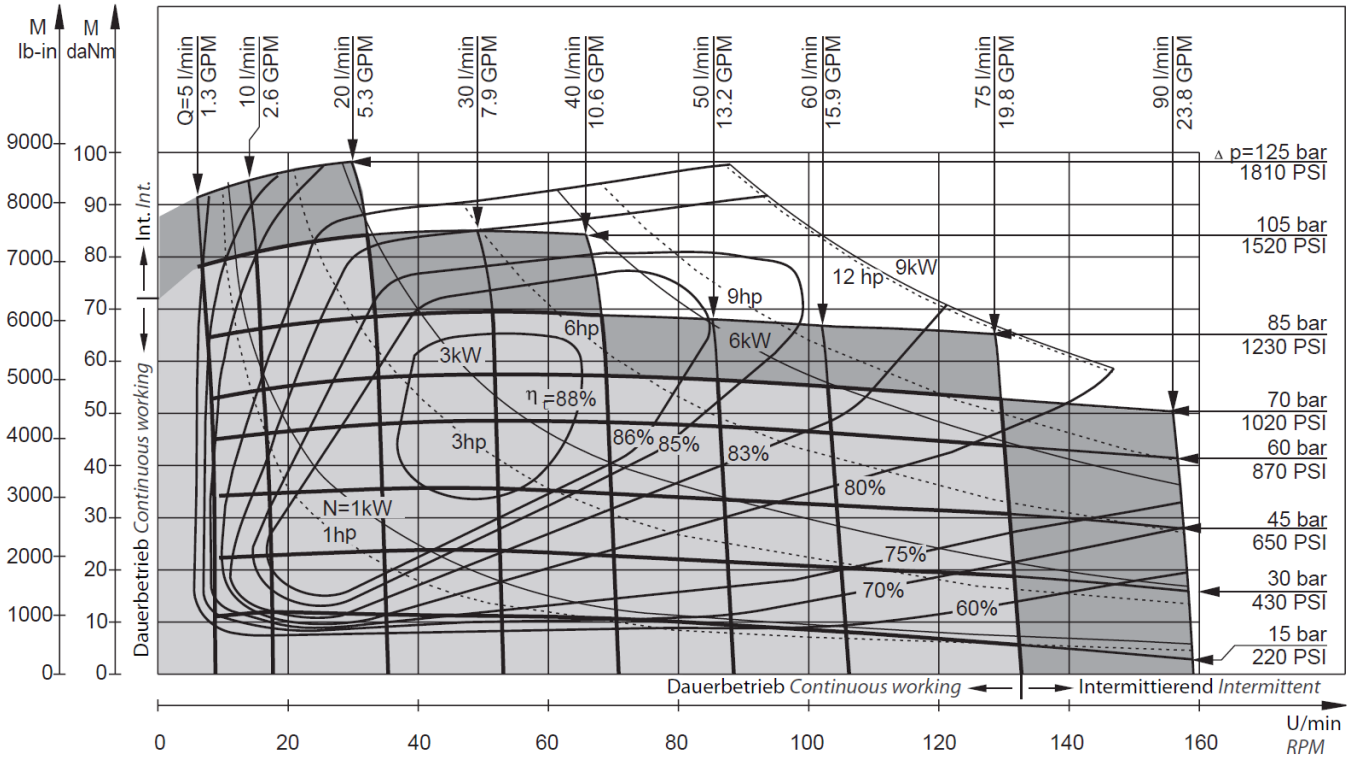


GMS525.....



Leistungsdiagramm

GMS565.....



Option LL: Geringses Lecköl

Option LL: Low Leakage

Die Hydraulikmotoren der LL Reihe sind für den Einsatz im ganzen Anwendungsbereich (Druckabfall und Drehzahl) entworfen. Sie haben jedoch erheblich geringere Verluste in den Verdrängungsräumen. Diese Motoren sind geeignet für hydraulische Systeme bei denen die Motoren in Reihe geschaltet sind und geringe Leckölverluste gefordert sind.

LL series hydraulic motors are 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 drain ports. These motors are suitable for hydraulic system with series-connected motors with demands for low leakage.

Option LSV: Ventil für geringe Drehzahlen

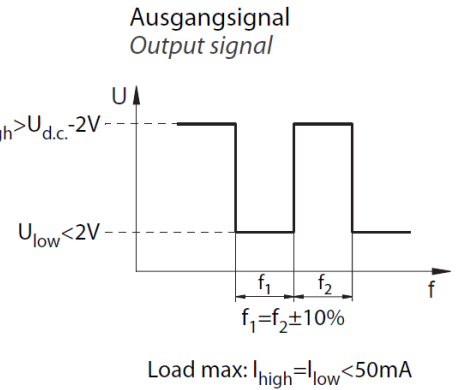
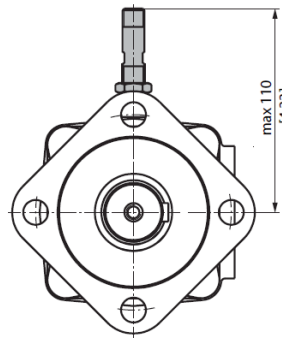
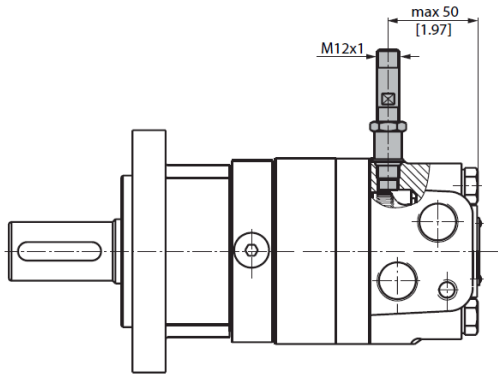
Option LSV: Low speed valve

Option LSV optimiert den Motor für den Betrieb bei kleinen Drehzahlen. LSV Motoren sind für den Betrieb mit standardmäßigen Höchstwerten des Druckabfalls und mit stoß freiem Betrieb bei niedrigen Drehzahlen (bis zu 200 U/min) ausgelegt. Ihre höchste Effektivität erreichen diese Motoren bei 20-50 U/min. Motoren mit diesem Ventil haben einen höheren Anlaufdruck. Der Druckabfall sollte größer als 40 bar [580 PSI] sein.

LSV option optimizes the motor for low speed performance. Motors with this valving provide very low speed while maintaining high torque. They are designed to run continuously at low speed (up to 200 RPM) at normal pressure drop and reduced flow. Optimal run is guaranteed at frequency of rotation from 20 to 50 RPM. Motors with this valving have an increased starting pressure and are not recommended for using at pressure drop less than 40 bar [580 PSI].

Pos. 7 Sonderausführungen *Special features*

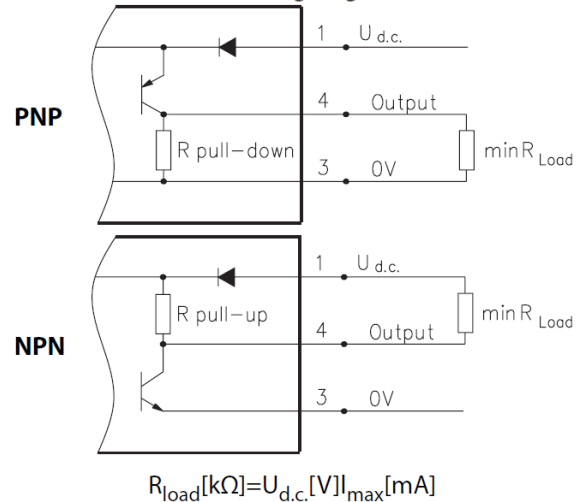
Option RS: Drehzahlsensor
Option RS: Speed sensor



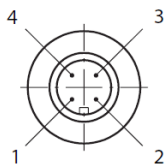
Technische Daten
Technical data

Frequenzbereich <i>Frequency range</i>	0 - 15000 Hz
Ausgang <i>Output</i>	PNP, NPN
Spannungsversorgung <i>Power supply</i>	10 - 36 VDC
Stromaufnahme <i>Current input</i>	20 mA (@24 VDC)
Umgebungstemperatur <i>Ambient temperature</i>	-40 - 125° C [-40 - 257° F]
Schutzart <i>Protection</i>	IP 67
Steckverbindung <i>Plug connector</i>	M12-Serie <i>Series</i>
Montageverfahren <i>Mounting principle</i>	ISO 6149
Impulse pro Umdrehung <i>Pulses per revolution</i>	54

Schaltplan
Wiring diagram



Anschluss Belegung
Stick type



Anschluss Nr. <i>Terminal No.</i>	Belegung <i>Connection</i>	Ausgangsleitung <i>Cable Output</i>
1	U _{d.c.}	Braun <i>Brown</i>
2	Keine Belegung <i>No connection</i>	Weiß <i>White</i>
3	0V	Blau <i>Blue</i>
4	Ausgangssignal <i>Output signal</i>	Schwarz <i>Black</i>

Bestellcode für Drehzahlsensor
Order code for speed sensor

Sensor Code	Ausgang <i>Output</i>	Elektrische Verbindung <i>Electric connection</i>
RSN	NPN	Kabelstecker M12 <i>Plug connector M12</i>
RSP	PNP	Kabelstecker M12 <i>Plug connector M12</i>
RSNL5	NPN	Anschlusskabel 3x0,25; 5m [196 in] lang <i>Cable output 3x0.25; 5m [196 in] long</i>
RSPL5	PNP	Anschlusskabel 3x0,25; 5m [196 in] lang <i>Cable output 3x0.25; 5m [196 in] long</i>

Der Drehzahlsensor wird nicht montiert geliefert. Der Sensor befindet sich in einer Plastiktüte in der Umverpackung des Motors. Für eine Installation beachten Sie bitte die beiliegende Montageanleitung.

The speed sensor will be delivered not fitted, but is supplied in a plastic bag with the motor. For installation see the enclosed mounting instructions.