ORDER CODE

	1	2	3	4	5	6	7	8
M S								

Pos.1 Mounting Flange

omit - SAE A-4 mount, four holes

A	- SAE A-2 mount, two holes
F	- Magneto mount, four holes
Q	- Square mount, four holes
B	- Motor with drum brake
S	- Short mount
V	- Very short mount
U	- Ultra short
W	- Wheel mount

Pos.2 Port type

omit - Side ports

E	- Rearports

Pos.3 Displacement code

80	- 80,5 cm^3/rev
100	- 100,0 cm^3/rev
125	- 125,7 cm^3/rev
160	- 159,7 cm^3/rev
200	- 200,0 cm^3/rev
250	- 250,0 cm^3/rev
315	- 314,9 cm^3/rev
400	- 397,0 cm^3/rev
475	- 474,6 cm^3/rev
525	- 522,7 cm^3/rev
565	- 564,9 cm^3/rev

Pos.4 Shaft Extensions*

omit - for B,S,U and V mountingflange

C	- ø32 straight, Parallelkey A10x8x45 DIN6885
CO	- ø1¼" straight, Parallelkey $^5/_{16}$"x $^5/_{16}$"x ¼" Bs46
K	- ø35 tapered
SL	- ø34,85 p.t.o. DIN9611 Form1
SH	- ø1¼" splined 14T ANS B92.1-1970
SA	- 7/8"-13T splined ANS B92.1-1970

Pos. 5 Ports

omit - BSPP(ISO 228)

M	- Metric (ISO 262)

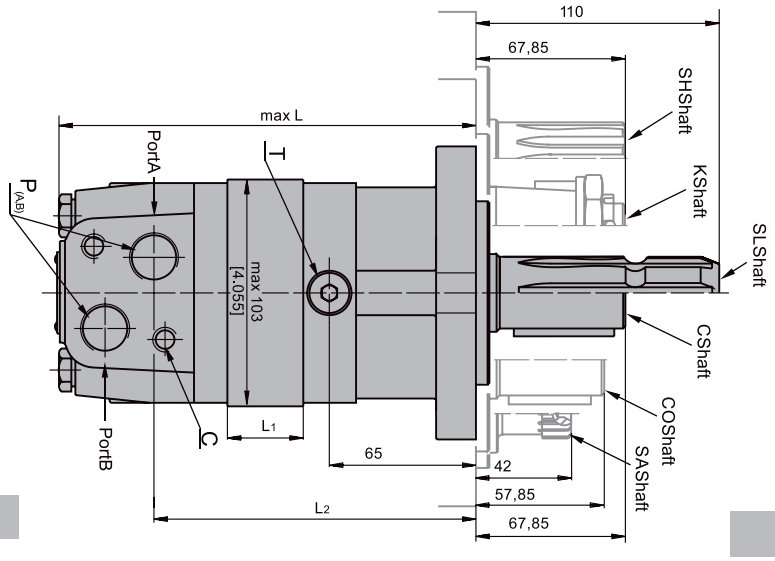
Pos. 6 Actuanting Direction

R	- Right
L	- Left

Pos. 7 Special Features

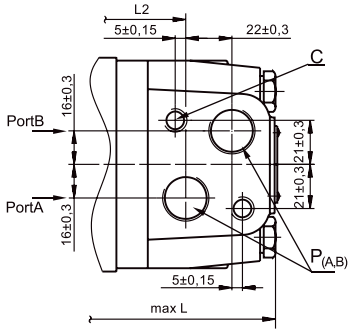
Pos. 8 Design Series

omit - Factory specified

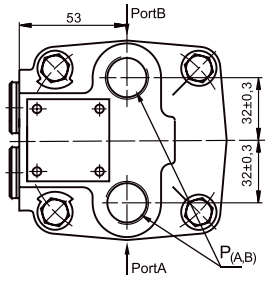


PORTING

Side Ports



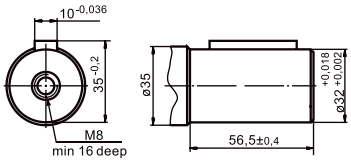
E Rear Ports



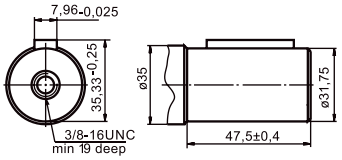
Type	L,mm	L_2,mm	L_E,mm
MS(F, A)80	168	124	173
MS(F, A)100	171	128	177
MS(F, A)125	176	132	181
MS(F, A)160	182	138	187
MS(F, A)200	189	145	194
MS(F, A)250	197	154	203
MS(F, A)315	209	165	214
MS(F, A)400	223	179	228
MS(F, A)475	237	193	242
MS(F, A)525	229	185	234
MS(F, A)565	235	191	240

SHAFT EXTENSIONS

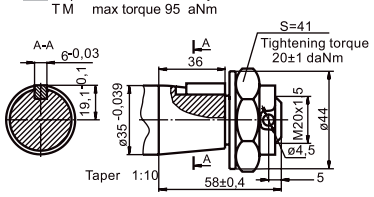
C - ø32 straight, Parallel key A10x8x45 DIN 6885
Max. Torque 77daNm



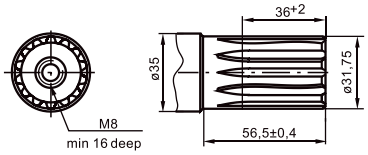
CO - ø1¼"straight,Parallelkey 5/16"x5/16"x1¼"BS46
Max. Torque 77daNm



K - tapered 1:10,Parallel key B6x6x20 DIN 6885
TM max torque 95 aNm

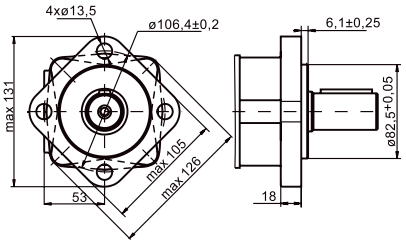


SH 1¼" splined 14T, DP12/24 ANS B92.1-1970
Max. Torque 95daNm

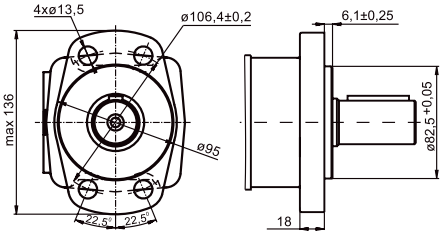


MOUNTING

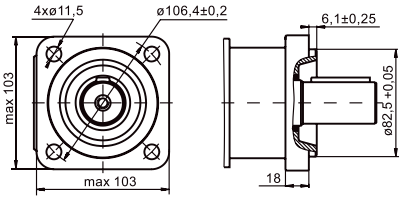
SAE A-4 Mount (4Holes)



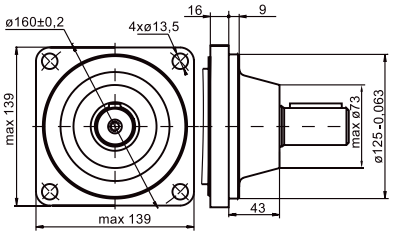
F Magneto Mount(4Holes)



Q Square Mount(4Holes)

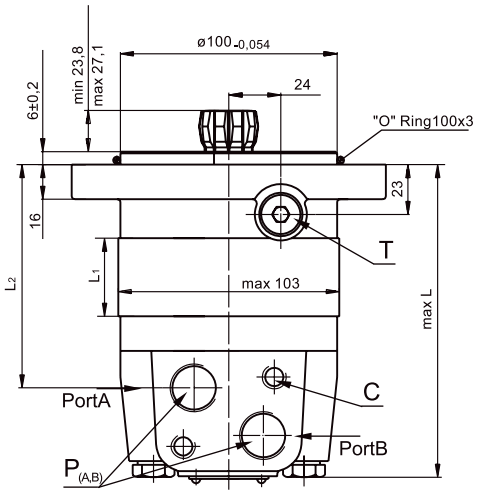


W Wheel Mount

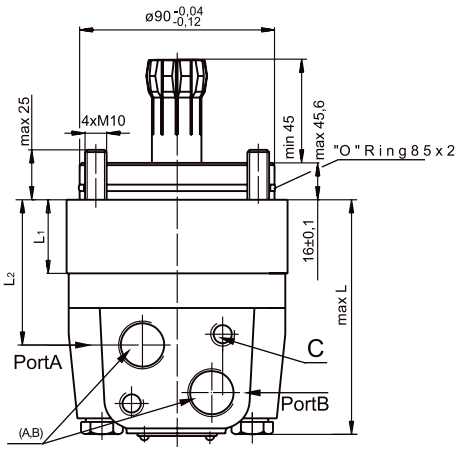


DIMENSIONS AND MOUNTING DATA - MSS- MSVand MSU

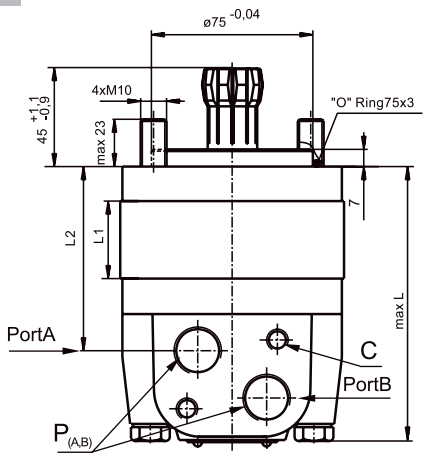
S Short Mount

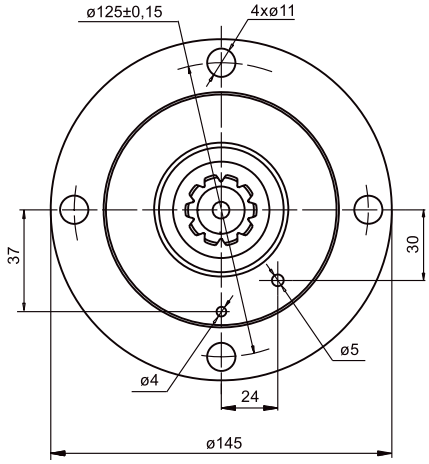


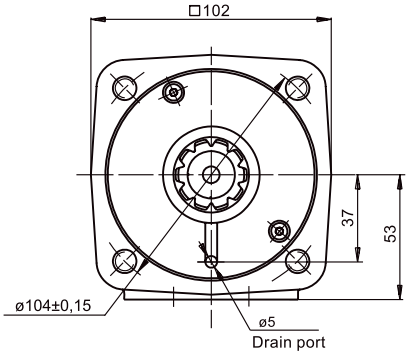
V Very Short Mount

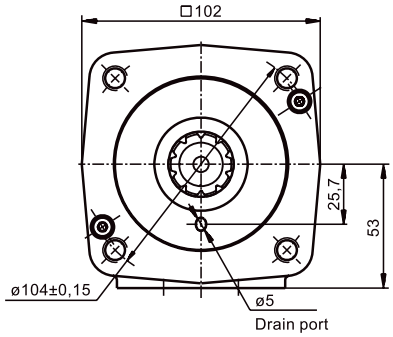


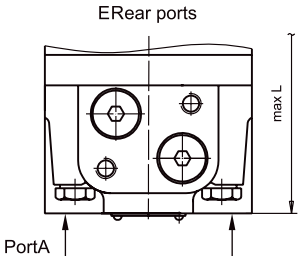
U Ultra Short Mount



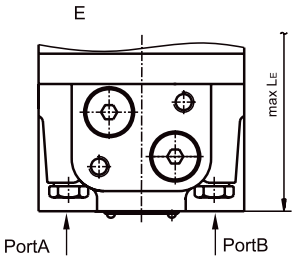








C: 2xM10-12mm depth
$P_{(A,B)}$: 2xG1/2or2xM22x1,5-15mm depth
T: G ¼ or M14x1,5- 12mm depth plugged



Type	L,mm	L_2,mm	L_E,mm	Type	L,mm	L_2,mm	L_E,mm	Type	L,mm	L_2,mm	L_E,mm	L_1,mm
MSS 80	125	83	134	MSV 80	91	47	97	MSU 80	105,5	63	111,5	**14,0**
MSS100	129	87	138	MSV 100	94	50,5	100	MSU 100	109	66,5	115	**17,4**
MSS125	133	90	141	MSV 125	99	55	105	MSU 125	113	71	119	**21,8**
MSS160	139	96	147	MSV 160	105	61	111	MSU 160	119	77	125	**27,8**
MSS200	146	103	154	MSV 200	112	68	118	MSU 200	126	84	132	**34,8**
MSS250	155	112	163	MSV 250	120	76,5	126	MSU 250	135	92,5	141	**43,5**
MSS315	166	123	174	MSV 315	132	88	138	MSU 315	146	104	152	**54,8**
MSS400	181	138	189	MSV 400	146	103	153	MSU 400	160	119	167	**69,4**
MSS475	194	152	203	MSV 475	160	116	166	MSU 475	174	132	180	**82,6**
MSS 525	186	144	195	MSV 525	152	108	158	MSU 525	166	124	172	**74,5**
MSS 565	192	150	201	MSV 565	158	114	164	MSU 565	172	130	178	**80,2**

SPECIFITION DATA

Type		MS 80	MS 100	MS 125	MS 160	MS 200	MS 250	MS 315	MS 400	MS 475	MS 565	MS 715
Displacement (cm³/rev.)		80.5	100	125.7	195.7	200	250	314.9	397	474.6	564.9	711.9
Max. Speed (RPM)	cont.	810	750	600	470	375	300	240	185	160	130	105
	int.*	1000	900	720	560	450	360	285	225	190	160	125
Max. Torque (daNm)	cont.	20	25	32	34	40	45	54	58	58	58	57
	int.*	24	30	38	48	50	54	63	69	68	69	67
	peak**	26	32	40	51	65	69	84	85	84	85	82
Max. Output (kW)	cont.	16	17.5	17.5	15.5	14	12.5	11.5	10	8.4	6.9	5.4
	int.*	19	21	21	21	17.5	15	13.5	13	11.3	9.6	7.2
Max. Pressure Drop (bar)	cont.	175	175	175	175	140	125	120	100	85	70	55
	int.*	210	210	210	210	175	155	140	120	100	85	65
	peak**	225	225	225	225	225	200	185	140	115	100	75
Max. Oil Flow (l/min)	cont.	65	75	75	75	75	75	75	75	75	75	75
	int.*	80	90	90	90	90	90	90	90	90	90	90
Max. Inlet Pressure (bar)	cont.	210	210	210	210	210	210	210	210	210	210	210
	int.*	250	250	250	250	250	250	250	250	250	250	250
	peak**	300	300	300	300	300	300	300	300	300	300	300
Max. Return Pressure w/o Drain Line or Max. Pressure in Drain (bar)	cont. 0-100 RPM	100	100	100	100	100	100	100	100	100	100	100
	cont. 100-300 RPM	50	50	50	50	50	50	50	50	50	50	50
	cont. 300 RPM	20	20	20	20	20	-	-	-	-	-	-
	int.* 0 - max.RPM	100	100	100	100	100	100	100	100	100	100	100
Max. Return Pressure with Drain Line (bar)	cont.	140	140	140	140	140	140	140	140	140	140	140
	int.*	175	175	175	175	175	175	175	175	175	175	175
	peak**	210	210	210	210	210	210	210	210	210	210	210
Max. Starling Pressure with Unloaded Shaft, (bar)		12	10	10	8	8	80	8	8	8	8	8
Min Starting Torque (daNm)	at max. press. drop. cont.	16.5	20.5	26	28	33	36	44	47	47	47	47
	at max. press. drop. Int.*	19.5	25	31	39	41	44	52	55	55	55	55
Min. Speed***, (RPM)		10	10	8	8	6	6	5	5	5	5	5
weight, agv. (kg)	MS(F) (E)	9.8(10.2)	10(10.4)	10.3(10.7)	10.7(11.1)	11.1(11.5)	11.6(12)	12.3(12.7)	13.2(13.6)	14(14.4)	14.9(15.3)	17.4(17.8)
	MSW(E)	10.3(10.7)	10.5(10.9)	10.8(11.2)	11.2(11.6)	11.6(12)	12.1(12.5)	12.8(13.2)	13.7(14.1)	14.5(14.9)	15.4(14.9)	17.9(18.3)
	MSS(Z) (E)	7.8(10.2)	8(8.4)	8.3(8.7)	8.7(9.1)	9.1(9.5)	9.6(10)	10.3(10.7)	11.2(11.6)	12(12.4)	12.9(12.3)	15.4(15.8)
	MSV(E)	5.6(10.2)	5.9(6.3)	6.2(6.6)	6.6(7)	7(7.4)	7.5(7.9)	8.2(8.6)	9.1(9.5)	9.9(10.3)	10.8(11.2)	13.3(13.7)
	MSQ(E)	10.2(10.6)	10.4(10.8)	10.7(11.1)	11.1(11.5)	11.5(11.9)	12(12.4)	12.7(13.1)	13.6(14)	14.4(14.8)	15.3(15.7)	17.8(18.2)
	MSB(E)	16.8(17.2)	17(17.4)	17.3(17.7)	17.7(18.1)	18.1(18.5)	18.6(12)	19.3(19.7)	20.2(20.6)	21(21.4)	21.9(22.3)	24.4(24.8)

* İntermittierent operation: The permissible valeus may occur for max. 10% of every minute.
** Peak load: The permissible valeus may occur for max. 1% of every minute.
*** For speed of 5 RPM lower than eiven.consult factory or your regionar manager.
1) İnterminttend speed and İnterminttend pressure musty rot ocur simultaneously.
2) Reconmendet filtration is per ISO clean lines cide 20/16. A nominal filtration of 25 micron or better.
3) Reconmend using a premium quality, anti-vear typee mineral based hydraulic oil, HLP (DIN51524) or HM (ISO 6743/4)if using synthetic fluids consult the factory for alternative seal materials.
4) Reconmended minimum oil viscosity 13 mm2/s at 50 C.
5) Reconmended maximum system operation temperature is 82 C
6) To assure optimum motor life fill with fluit prior to loadind and run at moderate load and speed for 10-15 minutes.