

**ORDER CODE**



	1	2	3	4	5
M	V				

**Pos.1 Mounting Flange**

omit - Square mount, four holes

- C** - SAE C mount
- W** - Wheel mount
- S** - Shortmount
- V** - Very short mount

**Pos.2 Displacement code**

- 315** - 314,5 cm<sup>3</sup>/rev
- 400** - 400,9 cm<sup>3</sup>/rev
- 500** - 499,6 cm<sup>3</sup>/rev
- 630** - 629,1 cm<sup>3</sup>/rev
- 800** - 801,8 cm<sup>3</sup>/rev

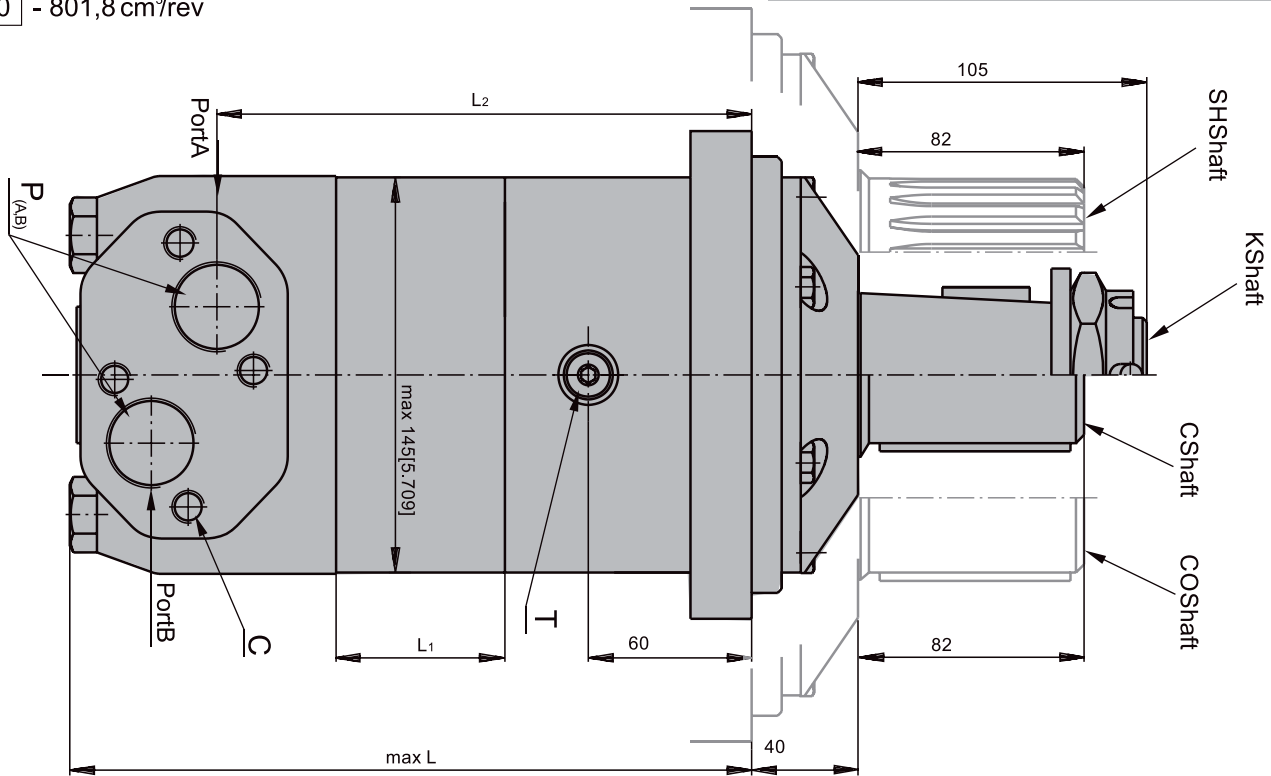
**Pos. 3 Shaft extensions \*\***

omit - for **S** and **V** mounting flange

- C** - ø50 straight, Parallelkey A14x9x70 DIN6885
- CO** - ø2 1/4"straight, Parallelkey 1/2 "x 1/2" x 2 1/4" BS46
- SH** - ø2 1/8" splined, ANS B92.1-1976
- K** - ø60 tapered 1:10, Parallelkey B16x10x32 DIN6885

**Pos. 4 Special Features**

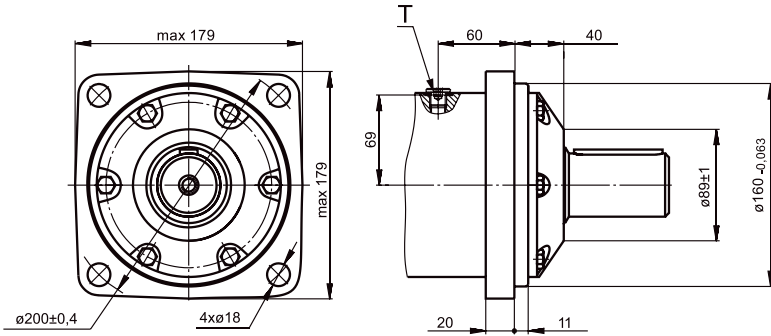
**Pos. 5 Design Series**



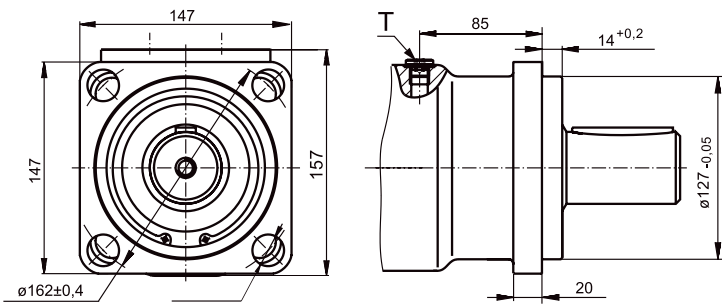
Type	L <sub>1</sub> ,mm	L <sub>2</sub> ,mm	Type	L <sub>1</sub> ,mm	L <sub>2</sub> ,mm	L <sub>1</sub> ,mm
MV 315	214,5	160	MVC 315	238,25	184,26	22,0
MV 400	221,5	167	MVC 400	245,25	191,26	29,0
MV 500	229,5	175	MVC 500	253,25	199,26	37,0
MV 630	240,0	186	MVC 630	263,75	209,76	47,5
MV 800	254,0	200	MVC 800	277,75	223,76	61,5

**MOUNTING**

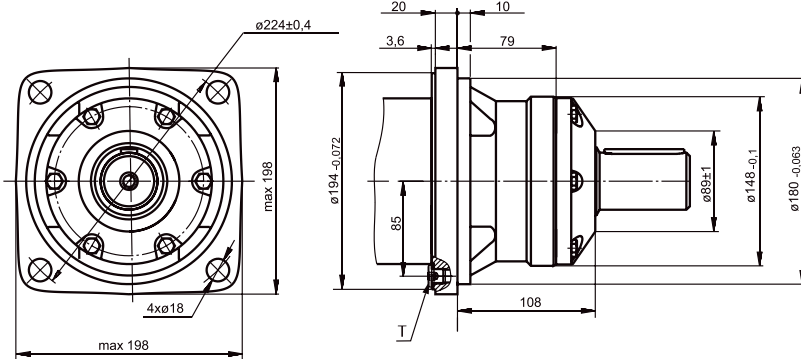
**Square Mount**



**C SAE C Mount**

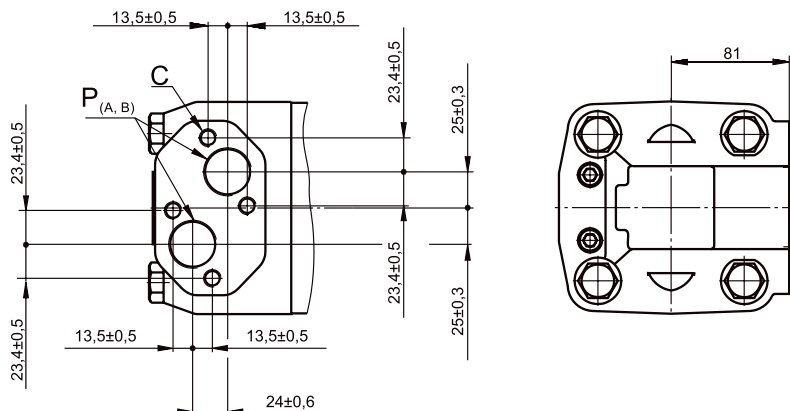


**W Wheel Mount**



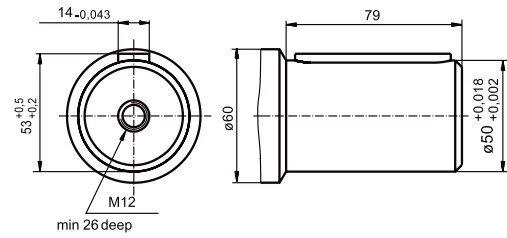
**PORTS**

**Side Ports**

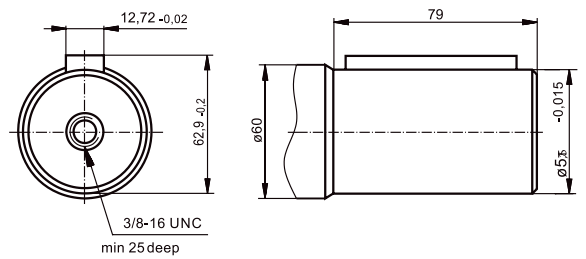


**SHAFT EXTENSIONS**

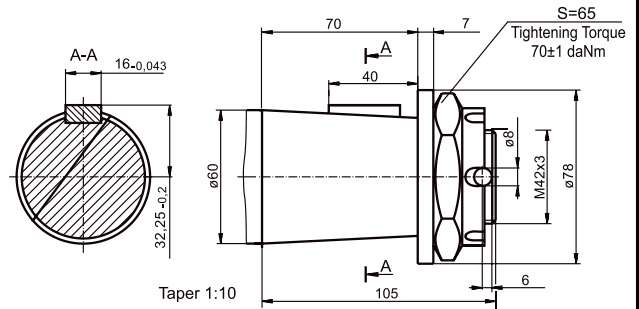
**C** -  $\varnothing 50$  straight, Parallelkey A14x9x70 DIN6885



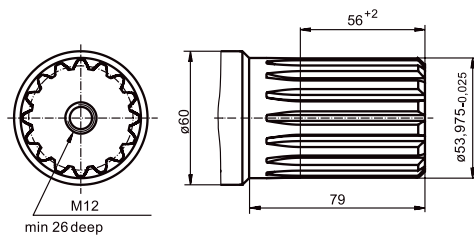
**CO** -  $\varnothing 2\frac{1}{4}$ " straight, Parallelkey  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $2\frac{1}{4}$ " BS46



**K** - tapered 1:10, Parallelkey B16x10x32 DIN6885



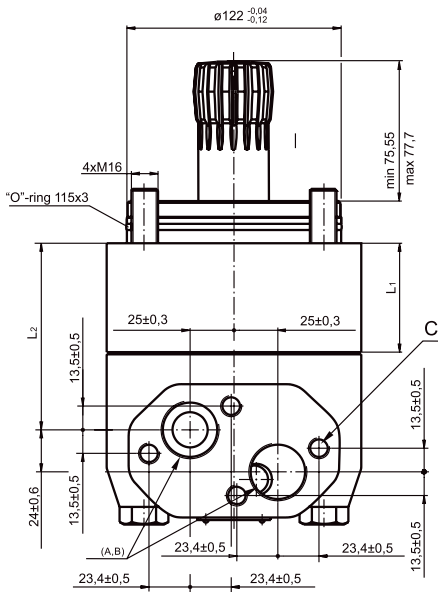
**SH** -  $\varnothing 2\frac{1}{8}$ " splined, 16 DP 8/16 ANS B92.1-197



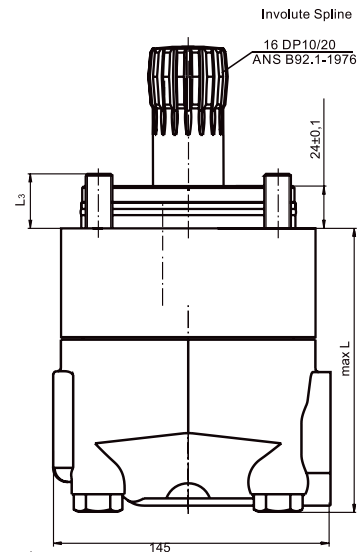
C: 4xM12 - 12 mm depth  
P<sub>(A,B)</sub>: 2xG1 - 20 mm depth  
T: G1/4 - 12mm depth

**DIMENSIONS AND MOUNTING**

**V Very Short Mount**

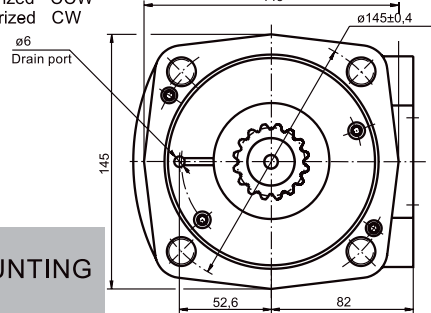


C: 4xM12 - 12mm depth  
P<sub>(A,B)</sub>: 2xG1 - 20 mm depth



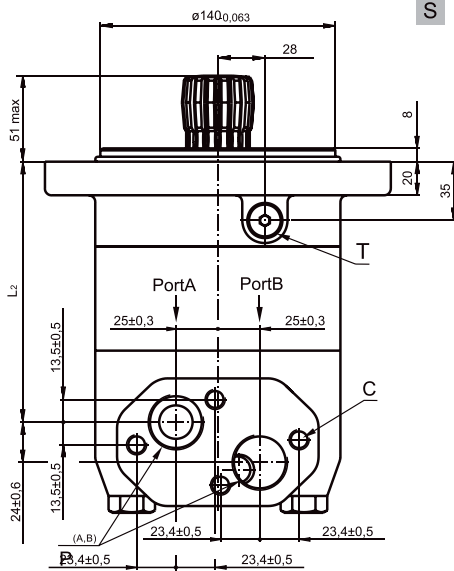
Standard Rotation  
Viewed from Shaft End  
Port A Pressurized CW  
Port B Pressurized CCW

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

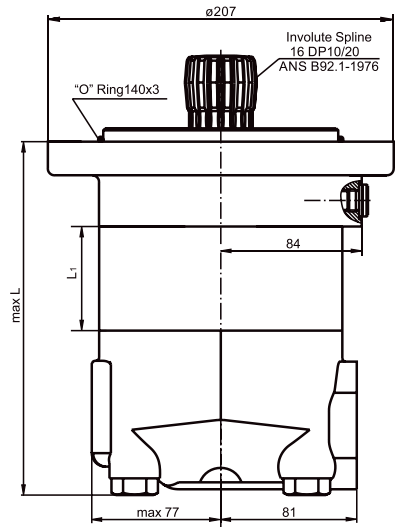


**DIMENSIONS AND MOUNTING**

**S Short Mount**

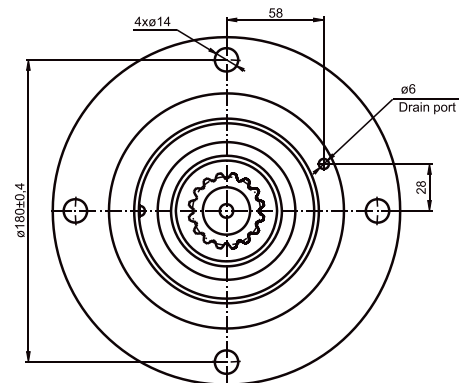


C: 4xM12 - 12mm depth  
P<sub>(A,B)</sub>: 2xG1 - 20mm depth  
T: G 1/4-12mm depth



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 <sub>1</sub> ,mm	L <sub>2</sub> ,mm	L <sub>1</sub> ,mm
MVS 315	171	117	22,0
MVS 400	179	124	29,0
MVS 500	186	132	37,0
MVS 630	197	143	47,5
MVS 800	211	157	61,5

**SPECIFICATION DATA**

Type		MV 315	MV 400	MV 500	MV 630	MV 800
Displacement (cm <sup>3</sup> /rev.)		314.5	400.9	499.6	629.1	801.8
Max. Speed (RPM)	cont.	510	500	400	315	250
	int.*	630	600	480	380	300
Max. Torque (daNm)	cont.	92	118	146	166	188
	int.*	111	141	176	194	211
	peak**	129	164	205	221	247
Max. Output (kW)	cont.	42.5	53.5	53.5	48	42.5
	int.*	51	64	64	56	48
Max. Pressure Drop (bar)	cont.	200	200	200	180	160
	int.*	240	240	240	120	180
	peak**	280	280	280	240	210
Max. Oil Flow (l/min)	cont.	160	200	200	200	200
	int.*	200	240	240	240	240
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 (bar)	cont. 0-100 RPM	60	60	60	60	60
	cont. 100-300 RPM	30	30	30	30	30
	cont. 600 RPM	20	20	20	20	20
	int.* 0 - max.RPM	75	75	75	75	75
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 Shaft, (bar)		8	8	8	8	8
Min Starting Torque (daNm)	at max. press. drop. cont.	71	91	113	133	151
	at max. press. drop. Int.*	85	109	136	155	170
Min. Speed***, (RPM)		10	9	8	6	5
weight, agv. (kg)	MT	31.8	32.6	33.5	34.9	36.5

\* 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.

\*\*\* For speed of 5 RPM lower than given, consult factory or your regional manager.

1) Intermittent speed and Intermittent pressure must not occur simultaneously.

2) Recommended filtration is per ISO clean lines code 20/16. A nominal filtration of 25 micron or better.

3) Recommend using a premium quality, anti-wear type mineral based hydraulic oil, HLP (DIN51524) or HM (ISO 6743/4) if using synthetic fluids consult the factory for alternative seal materials.

4) Recommended minimum oil viscosity 13 mm<sup>2</sup>/s at 50 C.

5) Recommended maximum system operation temperature is 82 C

6) To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.