

1SPA Series

Gear Pumps

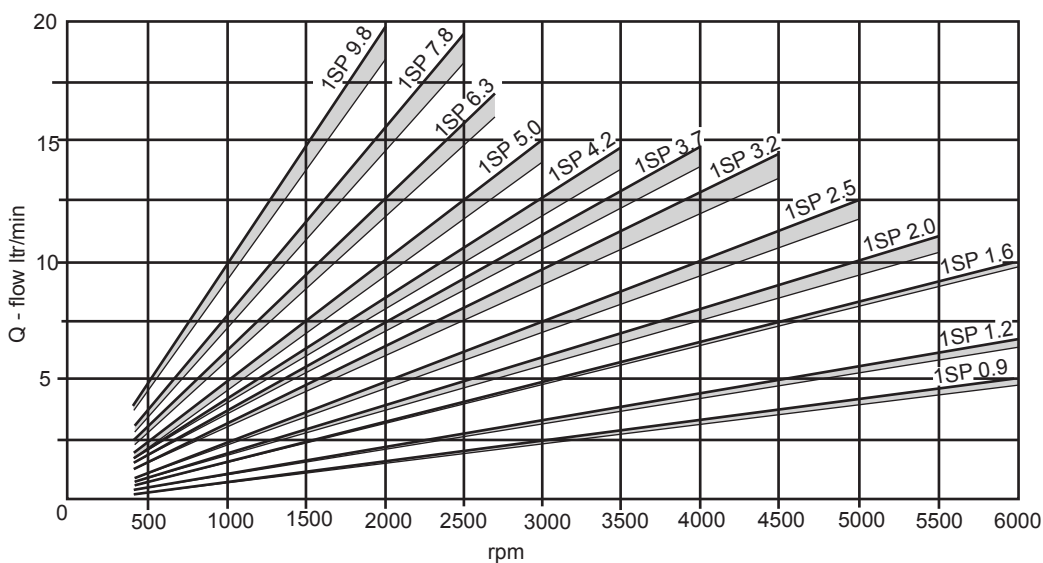


TECHNICAL SPECIFICATIONS

TYPE	DISPLACEMENT CM ³ /REV	MAX. SPEED RPM	MAX. FLOW LTR/MIN	MIN. SPEED RPM	MIN. FLOW LTR/MIN	VOLUMETRIC OUTPUT
1SP 0.9	0.89	6000	5.3	600	0.49	92% *
1SP 1.2	1.18	6000	7.1		0.65	
1SP 1.6	1.6	6000	9.6		0.61	
1SP 2.0	2.0	5500	11	400	0.76	95% *
1SP 2.5	2.5	5000	12.5		0.95	
1SP 3.2	3.2	4500	14.4		1.21	
1SP 3.7	3.7	4000	14.8		1.40	
1SP 4.2	4.2	3500	14.7		1.60	
1SP 5.0	5.0	3000	15		1.90	
1SP 6.3	6.3	2700	17		2.39	
1SP 7.8	7.76	2500	19.4		2.95	
1SP 9.8	9.78	2000	19.6		3.71	

* Value taken during testing @ 1500 rpm

FLOW CHART - n°/REV



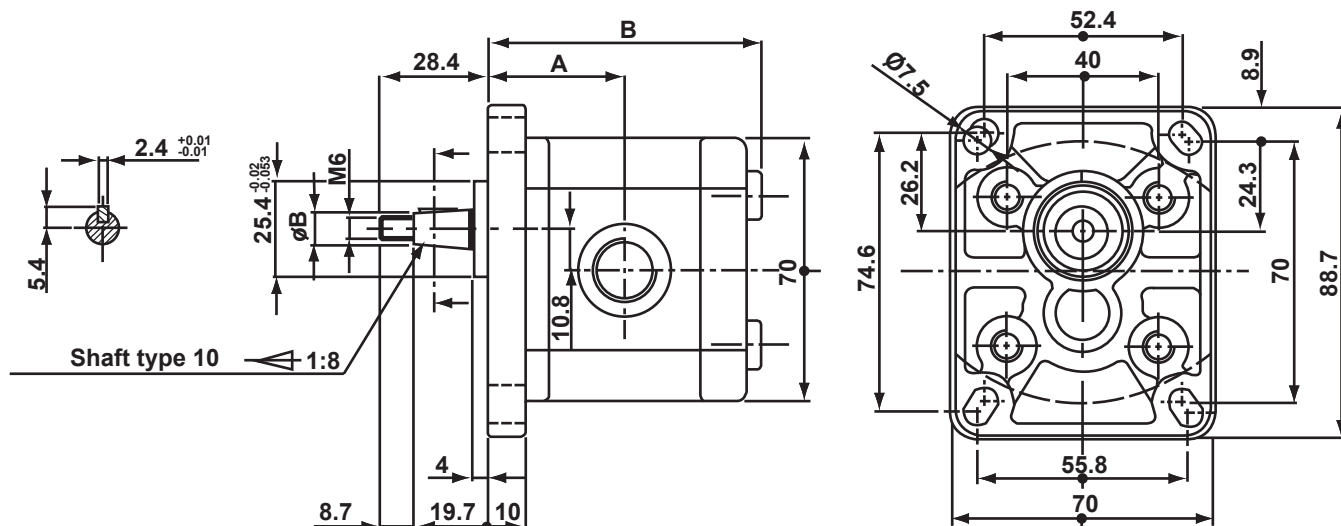
- 1SP 0.9 η=1 (20-240bar)
- 1SP 0.9 η=0.95 (20-240bar)
- 1SP 1.2 η=1 (20-240bar)
- 1SP 1.2 η=0.95 (20-240bar)
- 1SP 1.6 η=1 (20-240bar)
- 1SP 1.6 η=0.95 (20-240bar)
- 1SP 2.0 η=1 (20-220bar)
- 1SP 2.0 η=0.95 (20-220bar)
- 1SP 2.5 η=1 (20-220bar)
- 1SP 2.5 η=0.95 (20-220bar)
- 1SP 3.2 η=1 (20-210bar)
- 1SP 3.2 η=0.95 (20-210bar)
- 1SP 3.7 η=1 (20-210bar)
- 1SP 3.7 η=0.95 (20-210bar)
- 1SP 4.2 η=1 (20-190bar)
- 1SP 4.2 η=0.95 (20-190bar)
- 1SP 5.0 η=1 (20-180bar)
- 1SP 5.0 η=0.95 (20-180bar)
- 1SP 6.3 η=1 (20-170bar)
- 1SP 6.3 η=0.95 (20-170bar)
- 1SP 7.8 η=1 (20-170bar)
- 1SP 7.8 η=0.95 (20-170bar)
- 1SP 9.8 η=1 (20-150bar)
- 1SP 9.8 η=0.95 (20-150bar)

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DIMENSIONAL DETAILS



TYPE	DISPLACEMENT CM3/REV	MAX. WORKING PRESSURE			MAX. SPEED RPM	DIMENSIONS MM		WEIGHT KG
		P1	P2	P3		A	B	
1SP A0.9	0.89	240	260	290	6000	34.8	70.4	1.02
1SP A1.2	1.18	240	260	290	6000	35.35	74.2	1.02
1SP A1.6	1.6	240	260	290	6000	36.2	74.4	1.02
1SP A2.0	2.0	220	250	270	5500	36.95	74.7	1.05
1SP A2.5	2.5	220	250	270	5000	37.95	79.4	1.05
1SP A3.2	3.2	210	240	260	4500	39.3	79.4	1.10
1SP A3.7	3.7	210	240	260	4000	40.3	84.1	1.15
1SP A4.2	4.2	190	210	230	3500	41.25	84.5	1.20
1SP A5.0	5.0	180	210	230	3000	42.8	89.1	1.25
1SP A6.3	6.3	170	190	210	2700	45.35	94.2	1.25
1SP A7.8	7.8	170	190	210	2500	48.2	99.9	1.30
1SP A9.8	9.8	150	170	190	2000	52.15	105.1	1.40

HOW TO ORDER

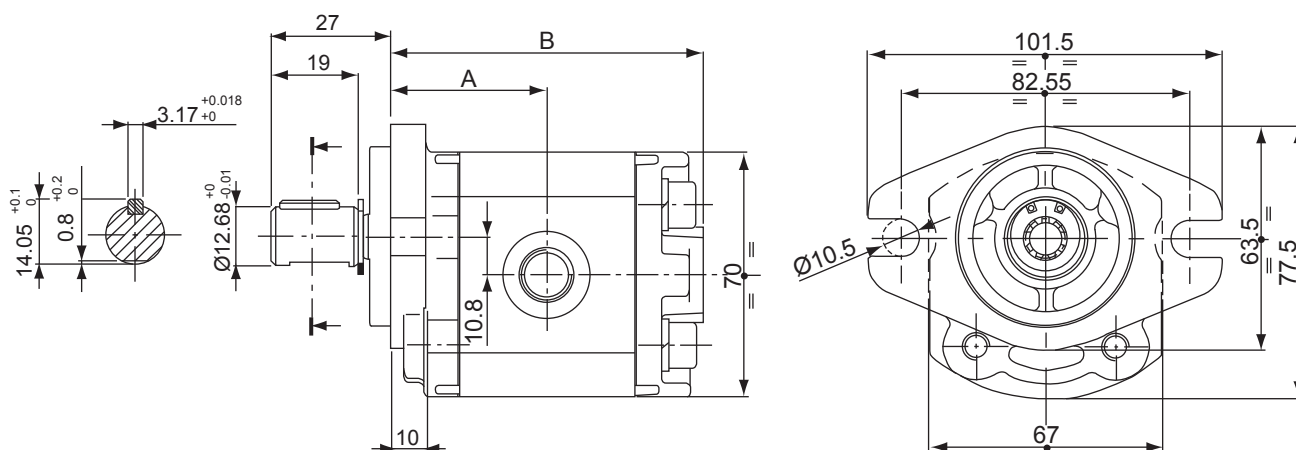
1SP	A	2.0	D	10	GG
Pump Type					Connection
Aluminium Flange & Cover				Shaft Type	
Displacement (Refer table)			D = Clockwise Rotation		
			S = Anti-Clockwise Rotation		

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DIMENSIONAL DETAILS



TYPE	DISPLACEMENT CM3/REV	MAX. WORKING PRESSURE			MAX. SPEED RPM	DIMENSIONS MM		WEIGHT KG
		P1	P2	P3		A	B	
1SP A0.9	0.89	240	260	290	6000	38.3	77.1	1.02
1SP A1.2	1.18	240	260	290	6000	38.8	78.2	1.02
1SP A1.6	1.6	240	260	290	6000	39.7	79.9	1.02
1SP A2.0	2.0	220	250	270	5500	40.4	81.4	1.05
1SP A2.5	2.5	220	250	270	5000	41.4	83.4	1.05
1SP A3.2	3.2	210	240	260	4500	42.8	86.1	1.10
1SP A3.7	3.7	210	240	260	4000	43.8	88.1	1.15
1SP A4.2	4.2	190	210	230	3500	44.7	90.0	1.20
1SP A5.0	5.0	180	210	230	3000	46.3	93.1	1.25
1SP A6.3	6.3	170	190	210	2700	48.8	98.2	1.25
1SP A7.8	7.8	170	190	210	2500	51.7	103.9	1.30
1SP A9.8	9.8	150	170	190	2000	55.6	111.8	1.40

HOW TO ORDER

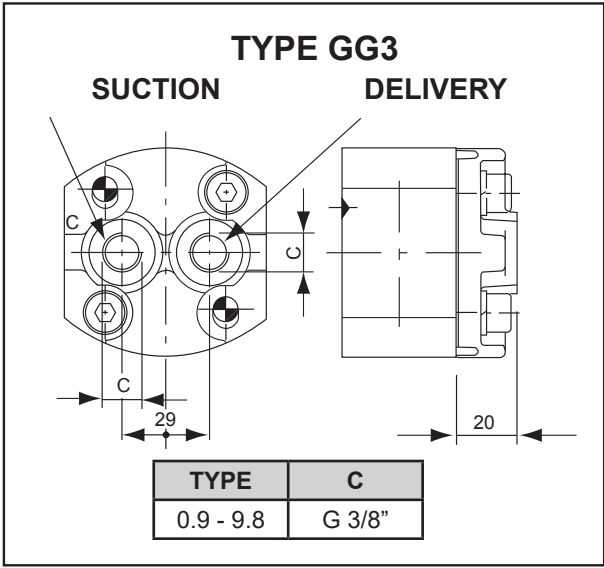
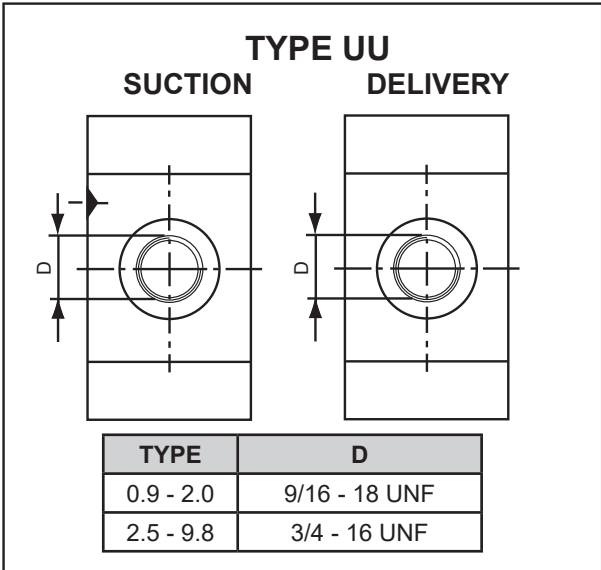
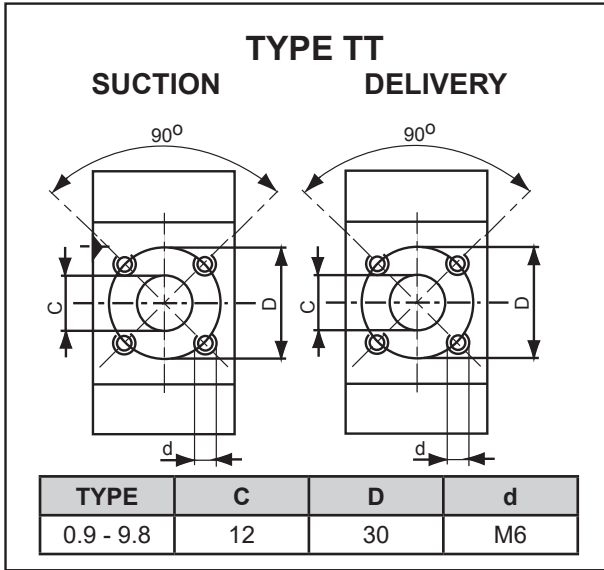
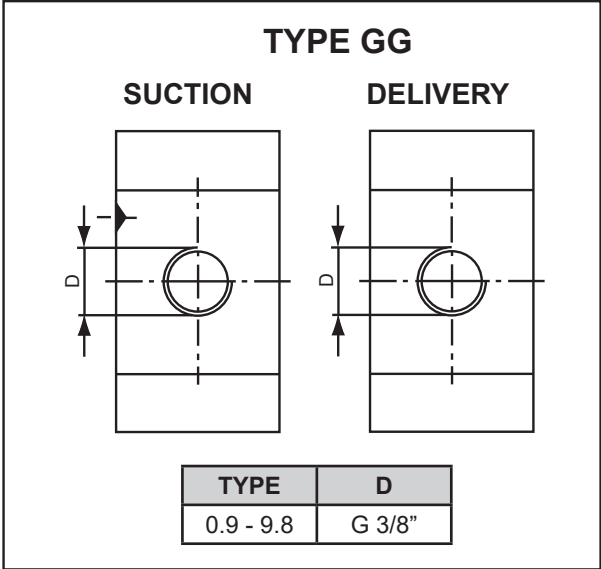
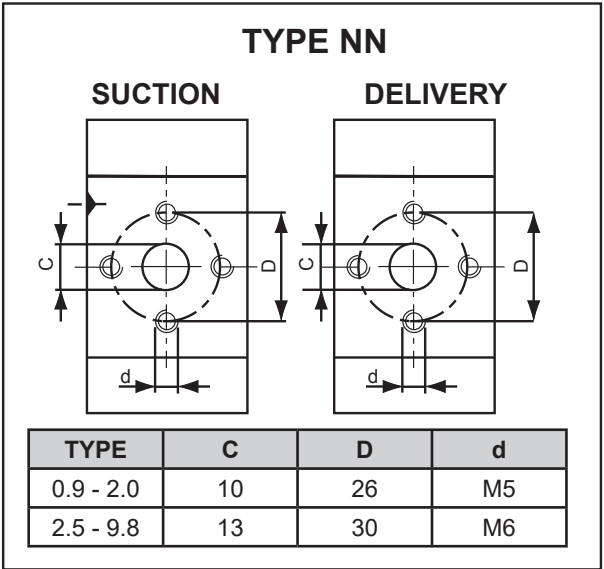
1SP	A	2.0	D	SAE AA	13U
Pump Type					Shaft Type
Aluminium Flange & Cover				Flange Type	
Displacement (Refer table)			D = Clockwise Rotation S = Anti-Clockwise Rotation		

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CONNECTIONS



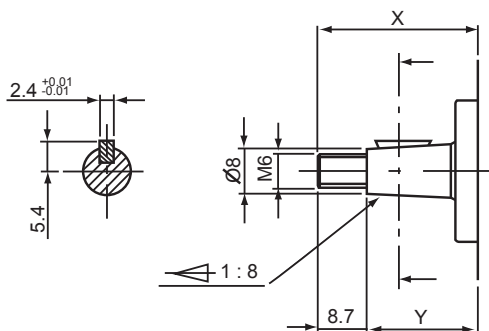
NOTE:



The point on the body indicates the suction side for the pumps and the outlet side for the unidirectional motors.

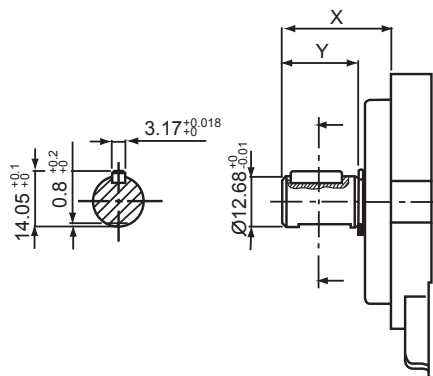
SHAFTS

TYPE 10



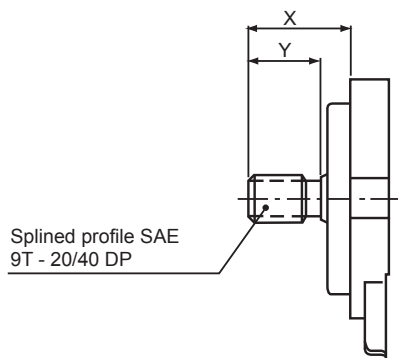
FLANGE TYPE	X	Y
STANDARD	28.4	19.7

TYPE 13



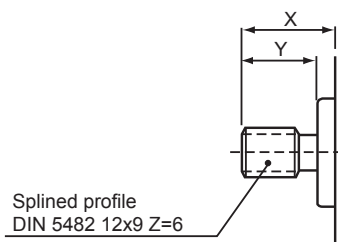
FLANGE TYPE	X	Y
SAE A-A	27	19

TYPE 14



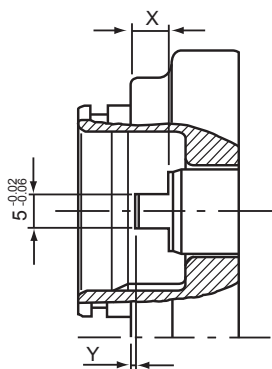
FLANGE TYPE	X	Y
SAE A-A	27	19

TYPE 15



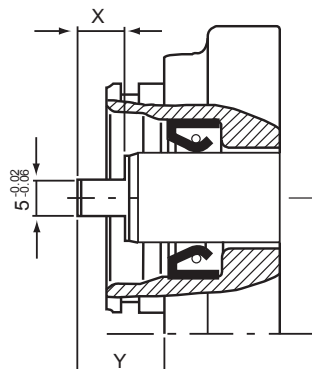
FLANGE TYPE	X	Y
STANDARD	22	17.5
E 32 C	22	17.5

TYPE 17



FLANGE TYPE	X	Y
E 32 C	8.5	0.5

TYPE 27



FLANGE TYPE	X	Y
MC 32	6.5	12