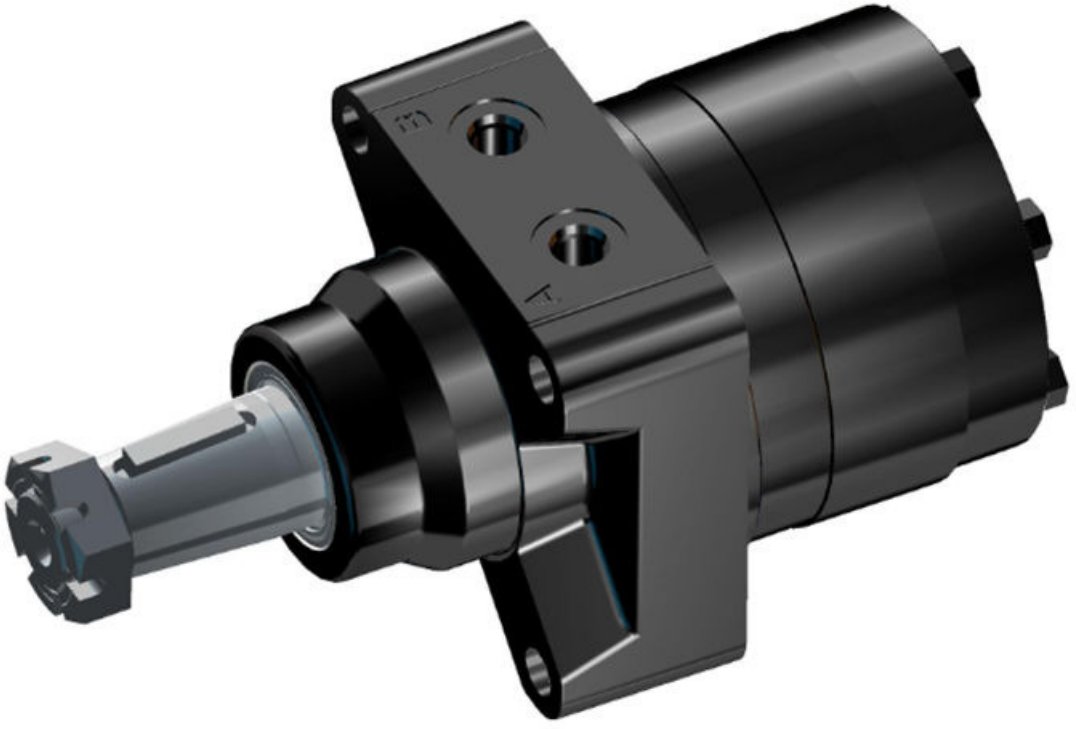
ENGINEERING
TOMORROW

Technical Information

Orbital Motor
A-Delta



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Revision history

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Date	Changed	Rev
August 2023	First edition	0101

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A-Delta Series

A-Delta Series Overview

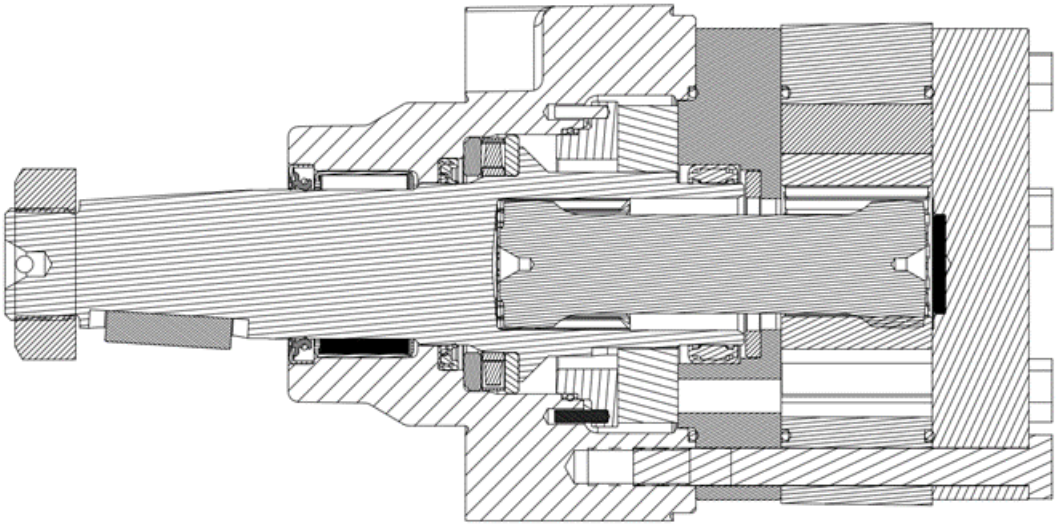
A-Delta series motor is a part of the Danfoss orbital motor production line, which provides torques up to 1179 Nm. Danfoss has packed this motor with many of the "best in class" features: The optimized geroler profile ensures smooth operation; the disc valve technology has the best performance and stronger gradeability.

A-Delta Series Benefits

- Lower no load pressure drop which leads to longer life and lower temperature operation
- Wheel drive motor, high performance bearing, withstand high radial force
- Disc valve design ensures well stability at low speed
- High total efficiency and longer service life

A-Delta Series Typical Applications

The A-Delta series motor is suitable for the wheel drive of small machines like an aerial work platform, mini excavators less than 1 ton, mini skid steer loaders and many more.



A-Delta Series Technical Information

		MCDL146	MCDL198	MCDL252	MCDL300	MCDL347	MCDL375	MCDL395
Displacement/cc		146	198	252	300	347	362.9	395
Flow/LPM	Continuous	15	20	25	30	30	30	30
	Intermittent	23	30	38	45	45	45	45
Speed/RPM	Continuous	98	98	95	98	85	81	74
	Intermittent	150	150	150	147	127	121	112
Torque/Nm	Continuous	395	535	680	800	924	960	972
	Intermittent	515	735	880	1012	1138	1080	1179
Pressure/△bar	Continuous	205	205	205	205	205	205	190
	Intermittent	275	275	275	275	275	241	241

To ensure the best motor life, run the motor in low speed high torque mode at approximately 30% of continuous pressure and 50% of continuous flow for 30 minutes in each direction before application of full load. Ensure that the motor is filled with fluid prior to operation.

A-Delta Series

When pressurizing B port, all displacements have a continuous rating of 138 bar (2000 psi).

Maximum inlet pressure:

310 bar (4500 psi). Do not exceed △ pressure rating shown in the table above.

Recommended fluids:

Premium quality, anti-wear type hydraulic coil with viscosity of no less than 13 cSt [70 SUS] at operating temperature.

Recommended system operating temp:

-34°C to 82°C

[-30°F to 180°F]

Recommended filtration:

Per ISO Cleanliness code, 4406: 20/18/13.

Warning

Thermal shock warning:
Do not operate the motor with fluid that is 21°C (70°F) or more above the motor temperature.

Warning

Minimum Delta pressure warning:
Motors must not run with equal inlet and outlet pressure 3.5 bar (50 PSID). Minimum Delta pressure between motor ports is always required (expect when switching direction of rotation).

A-Delta Series Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed. For best motor life, select a motor to run with a torque and speed range according to the table of continuous or intermittent values.

Performance data is typical at 25 cSt [120 SUS]. Actual data may vary slightly from unit to unit in production.

146cm³/r

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241	259	275
LPM																	
7.6	Nm	32[1]	67[1]	102[1]	134[1]	163[1]	194[1]	225[1]	254[1]	286[1]	317[1]	343[1]	385[1]	434[2]	434[2]	451[2]	
	RPM	50[1]	48[1]	46[1]	42[1]	44[1]	43[1]	40[1]	39[1]	38[1]	37[1]	35[1]	33[1]	29[2]	27[2]	24[2]	
15	Nm	32[1]	69[1]	107[1]	143[1]	176[1]	213[1]	251[1]	280[1]	311[1]	343[1]	372[1]	395[1]	442[2]	467[2]	475[2]	505[2]
	RPM	98[1]	98[1]	97[1]	96[1]	95[1]	95[1]	94[1]	92[1]	89[1]	87[1]	82[1]	79[1]	75[2]	72[2]	67[2]	62[2]
23	Nm	31[2]	68[2]	105[2]	142[2]	175[2]	213[2]	248[2]	385[2]	320[2]	357[2]	384[2]	417[2]	451[2]	481[2]	502[2]	515[2]
	RPM	150[2]	150[2]	149[2]	148[2]	146[2]	145[2]	144[2]	143[2]	141[2]	137[2]	135[2]	132[2]	129[2]	124[2]	119[2]	113[2]

[1] Continuous

[2] Intermittent

A-Delta Series

198cm³/r

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241	259	275
LPM																	
7.6	Nm	35[1]	83[1]	126[1]	167[1]	211[1]	254[1]	301[1]	345[1]	389[1]	432[1]	473[1]	513[1]	550[2]	586[2]	622[2]	
	RPM	36[1]	35[1]	34[1]	32[1]	31[1]	30[1]	29[1]	27[1]	27[1]	24[1]	24[1]	22[1]	21[2]	18[2]	17[2]	
15	Nm	41[1]	91[1]	139[1]	185[1]	230[1]	275[1]	321[1]	365[1]	409[1]	453[1]	497[1]	535[1]	583[2]	626[2]	668[2]	708[2]
	RPM	41[1]	91[1]	139[1]	185[1]	230[1]	275[1]	321[1]	365[1]	409[1]	453[1]	497[1]	535[1]	583[2]	626[2]	668[2]	708[2]
20	Nm	41[1]	90[1]	138[1]	185[1]	232[1]	277[1]	322[1]	366[1]	410[1]	455[1]	498[1]	532[1]	588[2]	630[2]	671[2]	735[2]
	RPM	98[1]	98[1]	97[1]	95[1]	94[1]	92[1]	90[1]	88[1]	86[1]	85[1]	82[1]	80[1]	79[2]	78[2]	78[2]	77[2]
23	Nm	41[2]	90[2]	139[2]	187[2]	233[2]	279[2]	325[2]	369[2]	414[2]	458[2]	502[2]	546[2]	589[2]	632[2]	675[2]	725[2]
	RPM	112[2]	111[2]	110[2]	109[2]	107[2]	106[2]	104[2]	102[2]	101[2]	99[2]	98[2]	96[2]	95[2]	93[2]	92[2]	89[2]
30	Nm	34[2]	88[2]	138[2]	186[2]	234[2]	280[2]	327[2]	373[2]	418[2]	462[2]	506[2]	549[2]	591[2]	633[2]	675[2]	717[2]
	RPM	150[2]	150[2]	149[2]	147[2]	146[2]	145[2]	143[2]	142[2]	140[2]	138[2]	135[2]	134[2]	133[2]	131[2]	129[2]	124[2]

252cm³/r

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241	259	275
LPM																	
7.6	Nm	55[1]	114[1]	172[1]	229[1]	289[1]	345[1]	403[1]	459[1]	515[1]	574[1]	613[1]	658[1]	724[2]	778[2]	834[2]	
	RPM	28[1]	27[1]	26[1]	26[1]	25[1]	24[1]	23[1]	23[1]	22[1]	23[1]	23[1]	22[1]	22[2]	19[2]	19[2]	
15	Nm	57[1]	119[1]	179[1]	242[1]	301[1]	355[1]	421[1]	477[1]	534[1]	584[1]	636[1]	670[1]	740[2]	790[2]	840[2]	880[2]
	RPM	59[1]	57[1]	56[1]	56[1]	55[1]	55[1]	54[1]	54[1]	53[1]	53[1]	53[1]	51[1]	51[2]	49[2]	49[2]	47[2]
23	Nm	51[1]	116[1]	179[1]	241[1]	301[1]	361[1]	420[1]	477[1]	534[1]	590[1]	646[1]	677[1]	756[2]	810[2]	865[2]	875[2]
	RPM	89[1]	88[1]	86[1]	85[1]	85[1]	84[1]	84[1]	84[1]	84[1]	84[1]	83[1]	82[1]	82[2]	80[2]	78[2]	78[2]
25	Nm	60[1]	116[1]	177[1]	240[1]	300[1]	358[1]	419[1]	479[1]	538[1]	588[1]	650[1]	680[1]	755[2]	811[2]	868[2]	880[2]
	RPM	95[1]	93[1]	92[1]	90[1]	91[1]	90[1]	90[1]	91[1]	88[1]	87[1]	87[1]	86[1]	85[2]	86[2]	84[2]	83[2]
30	Nm	47[2]	114[2]	177[2]	239[2]	301[2]	360[2]	420[2]	477[2]	534[2]	590[2]	646[2]	701[2]	754[2]	808[2]	861[2]	870[2]
	RPM	118[2]	118[2]	117[2]	115[2]	114[2]	113[2]	114[2]	113[2]	111[2]	110[2]	109[2]	110[2]	111[2]	110[2]	109[2]	108[2]
38	Nm	37[2]	108[2]	171[2]	233[2]	295[2]	354[2]	414[2]	472[2]	528[2]	582[2]	636[2]	690[2]	744[2]	797[2]	849[2]	874[2]
	RPM	150[2]	148[2]	147[2]	145[2]	144[2]	143[2]	142[2]	142[2]	142[2]	143[2]	142[2]	142[2]	141[2]	140[2]	139[2]	138[2]

300cm³/r

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241	259	275
LPM																	
7.6	Nm	69[1]	142[1]	217[1]	288[1]	361[1]	432[1]	505[1]	574[1]	644[1]	712[1]	779[1]	796[1]	905[2]	958[2]	1002[2]	
	RPM	24[1]	23[1]	23[1]	22[1]	21[1]	21[1]	21[1]	20[1]	19[1]	18[1]	17[1]	16[1]	15[2]	13[2]	11[2]	
15	Nm	69[1]	145[1]	219[1]	292[1]	364[1]	435[1]	506[1]	575[1]	643[1]	710[1]	777[1]	797[1]	906[2]	968[2]	1009[2]	1012[2]
	RPM	49[1]	48[1]	47[1]	46[1]	45[1]	44[1]	44[1]	44[1]	43[1]	42[1]	41[1]	40[1]	40[2]	39[2]	38[2]	37[2]
23	Nm	64[1]	141[1]	215[1]	288[1]	359[1]	429[1]	499[1]	567[1]	634[1]	700[1]	765[1]	800[1]	892[2]	954[2]	1005[2]	1011[2]
	RPM	76[1]	74[1]	73[1]	71[1]	70[1]	69[1]	68[1]	68[1]	69[1]	68[1]	68[1]	67[1]	66[2]	65[2]	64[2]	63[2]
30	Nm	53[1]	129[1]	211[1]	285[1]	356[1]	427[1]	497[1]	565[1]	633[1]	698[1]	762[1]	790[1]	890[2]	852[2]	1003[2]	1010[2]
	RPM	98[1]	98[1]	97[1]	96[1]	94[1]	93[1]	92[1]	92[1]	92[1]	93[1]	93[1]	93[1]	91[2]	90[2]	86[2]	85[2]

A-Delta Series

300cm³/r (continued)

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241	259	275
38	Nm	50[2]	119[2]	196[2]	267[2]	339[2]	413[2]	482[2]	561[2]	629[2]	695[2]	759[2]	821[2]	882[2]	943[2]	1003[2]	1008[2]
	RPM	126[2]	126[2]	124[2]	122[2]	120[2]	118[2]	115[2]	113[2]	113[2]	113[2]	114[2]	116[2]	118[2]	118[2]	117[2]	117[2]
45	Nm	46[2]	114[2]	192[2]	264[2]	340[2]	409[2]	486[2]	555[2]	624[2]	690[2]	754[2]	817[2]	879[2]	941[2]	1002[2]	1008[2]
	RPM	147[2]	147[2]	146[2]	146[2]	145[2]	143[2]	141[2]	140[2]	139[2]	139[2]	140[2]	142[2]	144[2]	144[2]	144[2]	144[2]

347cm³/r

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241	259	275
LPM																	
7.6	Nm	78[1]	160[1]	240[1]	319[1]	399[1]	480[1]	558[1]	636[1]	711[1]	786[1]	855[1]	924[1]	987[2]	1040[2]	1087[2]	
	RPM	20[1]	19[1]	18[1]	18[1]	17[1]	18[1]	17[1]	17[1]	16[1]	15[1]	14[1]	13[1]	12[2]	9[2]	8[2]	
15	Nm	78[1]	163[1]	246[1]	326[1]	407[1]	486[1]	563[1]	638[1]	713[1]	786[1]	860[1]	923[1]	1004[2]	1074[2]	1143[2]	1138[2]
	RPM	42[1]	41[1]	41[1]	40[1]	39[1]	37[1]	38[1]	38[1]	39[1]	38[1]	38[1]	37[1]	37[2]	35[2]	33[2]	31[2]
23	Nm	73[1]	159[1]	243[1]	324[1]	404[1]	483[1]	561[1]	637[1]	710[1]	781[1]	854[1]	923[1]	995[2]	1064[2]	1132[2]	1135[2]
	RPM	64[1]	64[1]	63[1]	61[1]	60[1]	58[1]	57[1]	57[1]	59[1]	60[1]	60[1]	59[1]	58[2]	57[2]	56[2]	55[2]
30	Nm	68[1]	153[1]	238[1]	319[1]	400[1]	479[1]	558[1]	635[1]	708[1]	779[1]	849[1]	919[1]	990[2]	1060[2]	1129[2]	1132[2]
	RPM	85[1]	85[1]	85[1]	84[1]	82[1]	81[1]	79[1]	78[1]	79[1]	81[1]	82[1]	81[1]	81[2]	80[2]	78[2]	77[2]
38	Nm	62[2]	146[2]	230[2]	312[2]	394[2]	473[2]	552[2]	631[2]	707[2]	779[2]	847[2]	913[2]	979[2]	1048[2]	1116[2]	1130[2]
	RPM	108[2]	108[2]	107[2]	106[2]	104[2]	103[2]	100[2]	98[2]	97[2]	98[2]	100[2]	103[2]	103[2]	102[2]	102[2]	101[2]
45	Nm	54[2]	139[2]	223[2]	305[2]	385[2]	464[2]	542[2]	619[2]	694[2]	766[2]	835[2]	902[2]	969[2]	1036[2]	1103[2]	1131[2]
	RPM	127[2]	127[2]	126[2]	126[2]	127[2]	125[2]	122[2]	119[2]	117[2]	115[2]	115[2]	119[2]	123[2]	125[2]	125[2]	124[2]

362.9cm³/r

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241
LPM															
7.6	Nm	81[1]	168[1]	251[1]	335[1]	418[1]	501[1]	584[1]	667[1]	745[1]	820[1]	894[1]	960[1]	1005[2]	1050[2]
	RPM	19[1]	18[1]	18[1]	17[1]	17[1]	17[1]	16[1]	16[1]	15[1]	15[1]	14[1]	13[1]	12[2]	11[2]
15	Nm	81[1]	170[1]	250[1]	336[1]	420[1]	505[1]	590[1]	668[1]	747[1]	821[1]	900[1]	950[1]	1010[2]	1060[2]
	RPM	41[1]	41[1]	40[1]	40[1]	39[1]	38[1]	38[1]	39[1]	38[1]	37[1]	37[1]	36[1]	36[2]	35[2]
23	Nm	77[1]	169[1]	252[1]	333[1]	421[1]	504[1]	585[1]	670[1]	750[1]	825[1]	895[1]	945[1]	1008[2]	1065[2]
	RPM	63[1]	62[1]	60[1]	60[1]	58[1]	57[1]	56[1]	56[1]	56[1]	57[1]	57[1]	56[1]	54[2]	53[2]
30	Nm	66[1]	156[1]	249[1]	330[1]	418[1]	499[1]	582[1]	668[1]	746[1]	822[1]	896[1]	946[1]	1006[2]	1080[2]
	RPM	81[1]	81[1]	80[1]	81[1]	80[1]	79[1]	78[1]	78[1]	79[1]	78[1]	77[1]	76[1]	75[2]	75[2]

A-Delta Series

362.9cm³/r (continued)

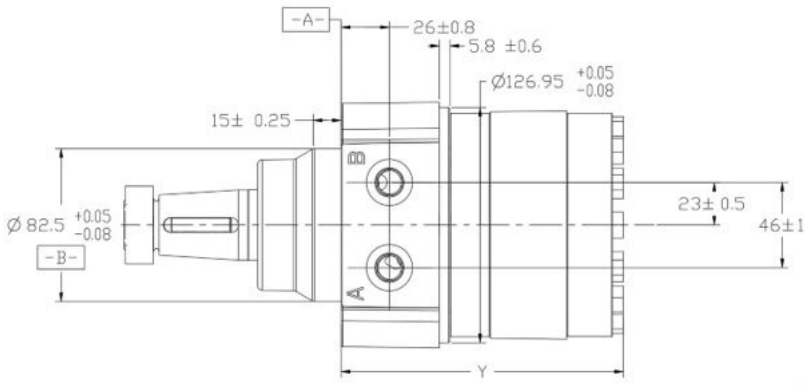
	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241
38	Nm	57[2]	147[2]	241[2]	324[2]	410[2]	492[2]	572[2]	654[2]	732[2]	810[2]	882[2]	932[2]	995[2]	1060[2]
	RPM	104[2]	104[2]	103[2]	103[2]	102[2]	103[2]	104[2]	103[2]	101[2]	99[2]	99[2]	99[2]	97[2]	97[2]
45	Nm	54[2]	131[2]	233[2]	320[2]	402[2]	485[2]	566[2]	645[2]	723[2]	800[2]	872[2]	930[2]	980[2]	1060[2]
	RPM	120[2]	120[2]	121[2]	119[2]	120[2]	120[2]	119[2]	119[2]	118[2]	117[2]	117[2]	116[2]	116[2]	115[2]

395cm³/r

	△ Bar	17	34	52	69	86	103	121	138	155	172	190	205	224	241
LPM															
7.6	Nm	88[1]	183[1]	275[1]	365[1]	455[1]	546[1]	638[1]	726[1]	814[1]	893[1]	972[1]	1043[2]	1106[2]	
	RPM	18[1]	17[1]	17[1]	16[1]	16[1]	16[1]	17[1]	16[1]	15[1]	15[1]	15[1]	14[2]	13[2]	
15	Nm	87[1]	186[1]	280[1]	371[1]	462[1]	549[1]	634[1]	718[1]	802[1]	885[1]	967[1]	1048[2]	1128[2]	1155[2]
	RPM	37[1]	37[1]	36[1]	35[1]	33[1]	33[1]	35[1]	36[1]	36[1]	35[1]	35[1]	34[2]	34[2]	33[2]
23	Nm	84[1]	182[1]	278[1]	370[1]	461[1]	549[1]	637[1]	721[1]	802[1]	882[1]	962[1]	1042[2]	1121[2]	1160[2]
	RPM	57[1]	57[1]	55[1]	54[1]	52[1]	51[1]	50[1]	51[1]	53[1]	54[1]	55[1]	54[2]	53[2]	53[2]
30	Nm	79[1]	176[1]	274[1]	367[1]	459[1]	548[1]	637[1]	722[1]	805[1]	883[1]	960[1]	1038[2]	1116[2]	1165[2]
	RPM	75[1]	75[1]	75[1]	74[1]	72[1]	70[1]	68[1]	67[1]	69[1]	72[1]	74[1]	74[2]	74[2]	73[2]
38	Nm	71[2]	168[2]	265[2]	359[2]	453[2]	544[2]	635[2]	722[2]	806[2]	887[2]	962[2]	1032[2]	1104[2]	1179[2]
	RPM	95[2]	95[2]	95[2]	93[2]	91[2]	90[2]	87[2]	85[2]	83[2]	83[2]	88[2]	93[2]	93[2]	93[2]
45	Nm	63[2]	159[2]	256[2]	349[2]	440[2]	529[2]	618[2]	703[2]	788[2]	870[2]	950[2]	1025[2]	1093[2]	1170[2]
	RPM	113[2]	113[2]	113[2]	113[2]	111[2]	109[2]	107[2]	105[2]	105[2]	100[2]	100[2]	105[2]	110[2]	113[2]

A-Delta Series Housing

9/16-18 UNF



Ports:

A-Delta Series

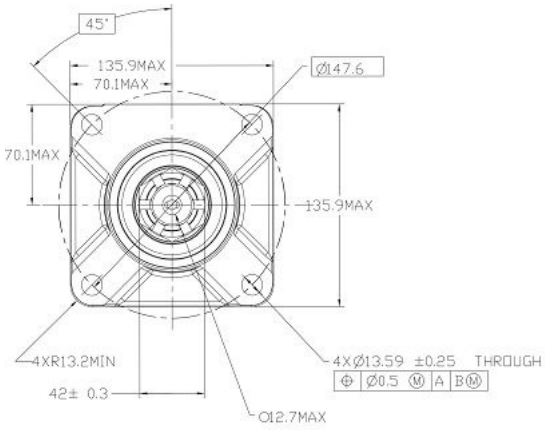
Code: AC G 1/2 BSP Straight thread ports

Code: AG .5625-18 UNF-2B SAE O-ring port

Standard rotation viewed from shaft end:

Port A Pressurized - CCW

Port B Pressurized - CW

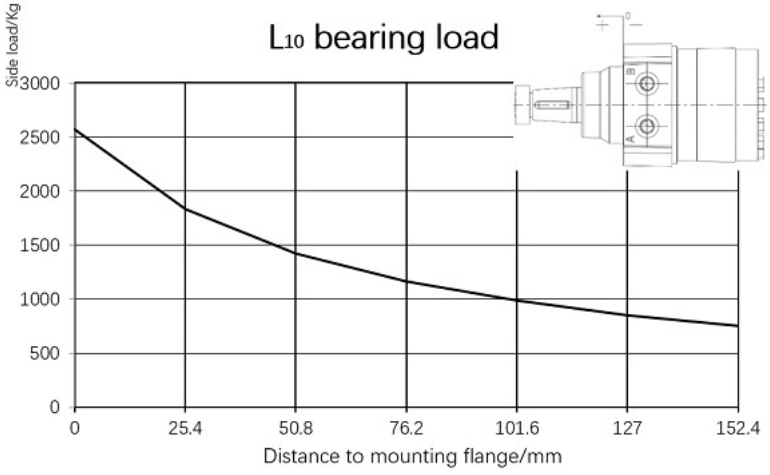


Displacement/cc	Y/mm
146	136.4
198	144.9
252	153.4
300	150.6
347	156.7
375	158.7
395	162.8

The stated dimensions are without paint. Paint thickness is 0.04~0.10mm.

A-Delta Series Shaft Side Load Capacity

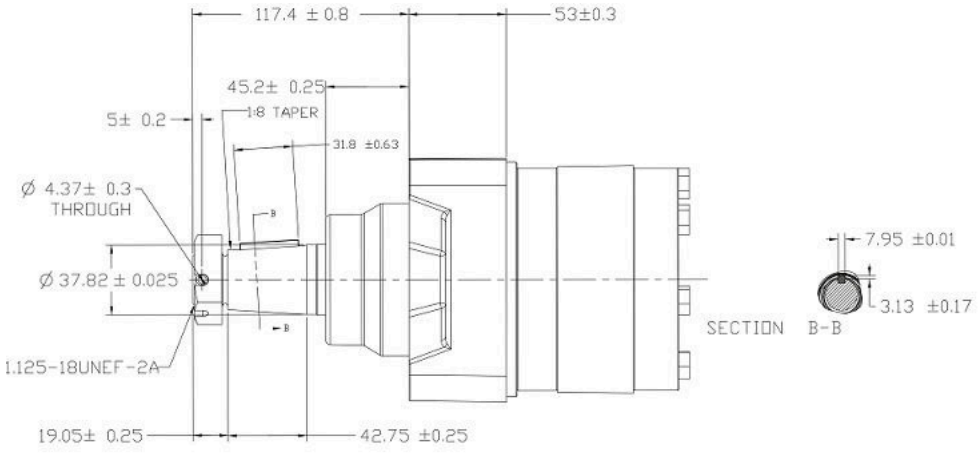
The bearing curve represents allowable bearing loads based on ISO 281 bearing capacity for an L10 life of 2,000 hours at 100 rpm.



A-Delta Series

A-Delta Series Output Shaft

37.82mm Taper shaft per SAE J501



The state dimensions are without paint. Paint thickness is 0.04~0.10mm.

A-Delta Series Ordering Information

POS 1 - Product

M Motor

POS 2, 3, 4 - Series

CDL A-Delta Series

POS 5, 6, 7 - Displacement

146 146cm^3/r
198 198cm^3/r
252 252cm^3/r
300 300cm^3/r
347 347cm^3/r
375 362.9cm^3/r
395 395cm^3/r

POS 8, 9 - Mounting Description

WQ Wheel, 4 bolt: 82.6mm pilot height 15mm, 13.59 dia. holes on 147.6mm dia. bolt circle. 127.0mm dia. rear mount pilot, 53mm flange thickness

POS 10, 11 - Output Shaft Description

70 37.82mm dia. tapered shaft per SAE J501 with 1.125-18 UNEF-2A threaded shaft end and slotted hex nut, 7.938mm SQ X 31.75mm key, bearing position dia. 38.1mm

POS 12, 13 - Port Description

AC G 1/2 BSP straight thread ports
AG .5625-18 UNF-2B SAE O-ring port

A-Delta Series

POS 14 - Pressure/Flow Option

0 None

POS 15 - Geroler Option

E Reduced side clearance

POS 16 - Seal Option

0 Standard

POS 17, 18 - Accessories

00 None

POS 19, 20 - Special Features (Hardware)

00 None
03 Low noise valve plate
50 Valve plate with thrust bearing

POS 21, 22 - Special Features (Assembly)

00 None
01 Reverse rotation

POS 23, 24 - Plant/Packaging

AB Primer low gloss black, except output shaft (including dust ring), other positions need to be painted

POS 25, 26 - Customer Identification

00 None

POS 27 - Design Code

A Two (2)

Example Model Code:

MCDL198WQ70AG0E0000300AB00A

A-Delta Series

A-Delta Series Recommended Code Numbers

Part numbers	Model code
636AG00080A	MCDL198WQ70AG0E0000300AB00A
636AG00081A	MCDL300WQ70AG0E0000300AB00A
636AG00083A	MCDL395WQ70AG0E0000300AB00A
636AG00087A	MCDL375WQ70AG0E0000300AB00A
636AG00088A	MCDL252WQ70AG0E0000300AB00A
636AG00082A	MCDL347WQ70AG0E0000300AB00A
636AG00100A	MCDL146WQ70AG0E0000000AB00A
636AG00101A	MCDL176WQ70AG0E0000000AB00A
636AG00102A	MCDL300WQ70AG0E0000000AB00A
636AG00103A	MCDL252WQ70AG0E0000301AB00A

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