

Micra®

Pompa • Yangın Söndürme Sistemleri • Hidrofor

MICRA POMPA VE MAKİNA İMALAT LTD. ŞTİ.



ECO SGT SERIES

2026 EDITION

ECO SGT SERIES

END SUCTION
CENTRIFUGAL PUMPS



HIGH EFFICIENCY



ENERGY SAVING



COMPACT DESIGN



LONG SERVICE LIFE



HIGH
EFFICIENCY



RELIABLE
PERFORMANCE



EASY
MAINTENANCE



ENERGY
SAVING



GLOBAL
SUPPORT



TRUSTED TECHNOLOGY,
WORLDWIDE SOLUTIONS.

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TRUSTED TECHNOLOGY,
WORLDWIDE SOLUTIONS.



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ABOUT MICRA

Engineering Excellence in Pump Technology

Founded with the vision of delivering reliable and efficient pumping solutions, Micra Pompa has become a trusted manufacturer serving industrial, commercial and fire protection markets.

Our product portfolio includes end suction pumps, split case pumps, in-line pumps, vertical turbine pumps, multistage pumps, fire fighting systems and pressure boosting systems, all designed and manufactured in accordance with international standards.

With advanced engineering capabilities, modern manufacturing technologies and strict quality control processes, Micra provides high-performance pumping solutions for HVAC, water supply, industrial plants, irrigation and fire protection applications.

Customer satisfaction, continuous innovation and sustainable production are the core values driving our success in both domestic and international markets.



Micra Production Facility - Ankara / Türkiye

WHY MICRA?



**ADVANCED
ENGINEERING**
Modern hydraulic
design.



**MODERN
MANUFACTURING**
High precision
CNC production.



**HIGH
EFFICIENCY**
Energy saving
hydraulic performance.



**FIRE PROTECTION
SOLUTIONS**
Certified firefighting
systems.



**EXPORT
EXPERIENCE**
Products supplied to
international markets.



**QUALITY
ASSURANCE**
Every pump is tested
before shipment.

COMPANY PROFILE

	Established	2008
	Production Facility	Ankara, Türkiye
	Product Groups	Centrifugal Pumps, Fire Pumps, Booster Systems
	Markets	Domestic & International
	Quality	ISO 9001
	Manufacturing	CNC Production

MICRA IN NUMBERS



25+
Years of
Experience



50+
Countries
Served



1000+
Pump Solutions
Delivered



100%
Performance
Tested



**Reliable Pump Solutions
Worldwide**



ISO 9001:2015
Quality Management
System



CE
Conformité Européenne



TSE
Türk Standardları
Enstitüsü

Innovative Engineering
• Reliable Performance
• Sustainable Solutions



ECO SGT SERIES

EN 733 END SUCTION CENTRIFUGAL PUMPS

ECO SGT series are horizontal, single stage, end suction centrifugal pumps with closed impeller, designed in accordance with EN 733 standard.



HANDLED LIQUIDS

- ✓ Clean or slightly contaminated liquids
- ✓ Water supply systems
- ✓ HVAC applications
- ✓ Industrial applications
- ✓ Fire fighting systems

TECHNICAL DATA

	Capacity	up to 1200 m ³ /h ^(*)
	Head	up to 160 m ^(*)
	Speed	up to 3600 rpm ^(*)
	Design Temperature	-10 °C to +140 °C ^(**)
	Casing Pressure (P _{max})	10 bar (16 bar) ^(**)

(P_{max}: Suction Pressure + Shut off Head)

(*) Contact company for higher capacity and head values.

(**) The material of pump differs according to the type of pumped liquid, operating temperature and pressure. Contact for detailed information.



Pump



Fire Fighting
Units



Booster Set



DESIGN FEATURES

- Horizontal, radially split volute casing type, single stage, end suction centrifugal pump with closed impeller.
- Dimensionally complies with EN 733.
- Suction and discharge flanges conform to EN 1092-2 / PN 16. In case of request, ANSI/ASME flanges can be supplied.
- Due to the back-pull-out design, the complete bearing assembly including impeller and casing cover can be dismantled without removing the volute casing from the piping system. With spacer coupling application, also possible to take out the rotor group without dismantling the electric motor.
- All impellers are balanced dynamically or statically according to ISO 1940 grade 6.3.
- Axial thrust is balanced by impeller balancing holes system.
- Direction of rotation is clockwise viewed from drive end.
- In case of request, wear ring and/or shaft sleeve can be supplied.
- Bearings are normally non-maintenance, "life time grease lubricated" ball bearings". In case of demand, oil lubrication or re-greaseable bearing can be supplied.
- Oil lubrication bearings are used in pumps with 65 mm shaft end.



SHAFT SEALING

- In standard production, soft packed stuffing boxes are used.
- Depending on customer request, mechanical seals are available. In this case, pump shaft is always stainless steel.

PUMP DESIGNATION

ECO SGT 100 - 250 - XXX

Pump Type

Discharge Nozzle (DN-mm)

Nominal Impeller Diameter (mm)

Special Application

MATERIAL OPTION

ECO SGT

Part List	10	30	35	20	60	6L	70	7L	8M	7D	75	8N 0	4C	4A	40	20	8T	60	7L	7E	7D
	0.6025	0.7040	0.7043	1.0619	1.4306	1.4408	1.4408	1.4507	1.4517	1.4517	1.4469	1.4307	2.0075.01	2.1066.01	2.1066.01	1.0533	2.4022-Q7	1.4301	1.4404	1.4460	1.4462
Volute Casing	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○						
Seal Cover (Mech. or Soft)	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○						
Impeller	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○					○	
Shaft																●	○	○	○		○
Bearing House	●	○	○	○	○	○	○														
Wear Ring	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○						
Shaft Sleeve																○	○	○	○	○	○
Mechanical Seal (*)	EN 12756																				

(*) Optional: Depending on customer requirement or request different types and brands of mechanical seals are applicable.

NOTE: Depends on the request, different than above casting and shaft material can be supplied.

● Standard manufacturing

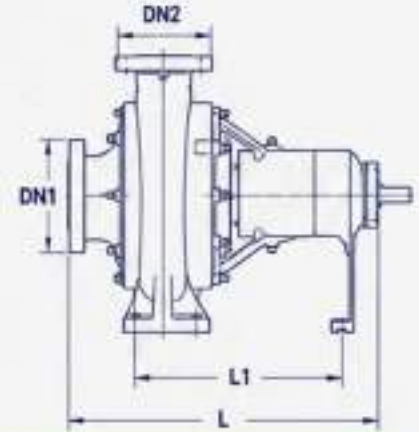
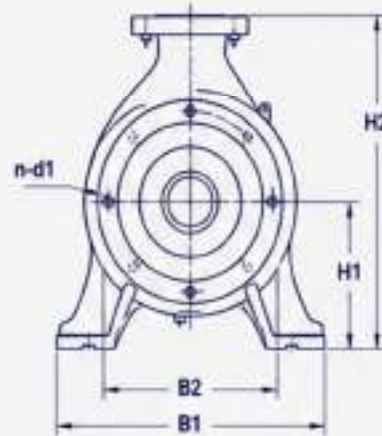
○ Optional

MATERIAL EQUIVALENTS

Description		DIN / EN	AISI / SAE / ASTM
Cast Iron	0.6025	EN-GJL-250 (GG25)	A48 Class 40B
Nodular Cast Iron	0.7040	EN-GJS-400-15 (GGG40)	A536 60-40-18
Nodular Cast Iron	0.7043	EN-GJS-400-18-LT (GGG40.3)	A536 60-40-18
Cast Steel	1.0619	GP240GHGS-C25	A216 WCB
Chrome Nickel Cast Steel	1.4308	GX5CrNi19-10	A351 CF8
Chrome Nickel Cast Steel (low carbon)	1.4309	GX2CrNi19-11	A351 CF3
Chrome Nickel Molybdenum Cast Steel	1.4408	GX5CrNiMo19-11-2	A351 CF8M
Chrome Nickel Molybdenum Cast Steel (low carbon)	1.4409	GX2CrNiMo19-11-2	A351 CF3M
Austenitic Cast Steel	1.4500	GX7NiCrMoCuNb25-20	A351 CN7M
Austenitic - Ferritic Cast Steel (duplex)	1.4517	GX2CrNiMoCuN25-6-3-3	A890 CD4MCuN
Austenitic - Ferritic Cast Steel (super duplex)	1.4469	GX2CrNiMoN26-7-4	A890 CE3MN
Martenzitic Stainless Cast Steel	1.4317	GX4CrNi13-4	A352 CA6NM
Martenzitic Stainless Cast Steel	1.4008	GX7CrNiMo12-1	A217 CA15
Cast Bronze (tin alloy)	2.1050.01	G-CuSn10	B427 C90700
Cast Bronze (nickel alloy)	2.0975.01	G-CuAl10Ni	B148 C95500
Cast Bronze (Leaded)	2.1096.01	G-CuSn5ZnPb	B584 C83600
Carbon Steel	1.0503	C45	AISI 1045
Chrome Steel	1.4021	X20Cr13	A276 Type 420
Chrome Steel (Heat treated)	1.4021	X20Cr13	A276 Type 420-QT
Chrome Nickel Steel	1.4301	X5CrNi18-10	A276 Type 304
Chrome Nickel Steel (low carbon)	1.4404	X2CrNiMo17-12-2	A276 Type 316L
Duplex (austenitic-ferritic) Steel	1.4460	X3CrNiMoN27-5-2	AISI 329
Duplex (austenitic-ferritic) Steel	1.4462	X2CrNiMoN22-5-3	UNS S32205

OVERALL DIMENSIONS

ECO SGT SERIES END SUCTION CENTRIFUGAL PUMPS



DIMENSIONS (mm)

PUMP SIZE	DN1	DN2	L		H		B		n-d1
			L	L1	H1	H2	B1	B2	
32-125	32	50	440	220	112	140	190	140	4-19
32-160	32	50	440	220	132	160	240	190	4-19
32-200	32	50	460	230	160	180	240	190	4-19
32-250	32	50	460	230	180	225	320	250	4-19
40-125	40	65	440	220	112	140	190	140	4-19
40-160	40	65	440	220	132	160	240	190	4-19
40-200	40	65	460	230	160	180	240	190	4-19
40-250	40	65	460	230	180	225	320	250	4-19
40-125	50	65	460	230	225	280	190	250	4-19
50-160	50	65	440	220	160	180	240	190	4-19
50-200	50	65	460	220	200	225	240	190	4-19
50-250	50	65	460	230	225	280	320	250	4-19
50-315	50	65	460	230	260	355	320	250	4-19
65-125	65	80	460	230	160	180	240	190	4-19
65-160	65	80	460	230	180	200	240	190	4-19
65-200	65	80	485	242	200	225	280	210	4-19
65-250	65	80	485	242	225	280	320	250	4-19
65-315	65	80	570	285	250	355	320	250	4-19
65-400	65	80	670	335	280	400	400	300	4-19
80-160	80	100	485	242	180	200	280	210	4-19
80-200	80	100	485	242	200	225	280	210	4-19
80-250	80	100	485	242	225	280	320	250	4-19
80-315	80	100	610	305	250	355	400	300	4-19
80-400	80	100	655	327	280	400	400	300	4-19
100-160	100	125	485	242	200	225	320	250	4-19
100-200	100	125	485	242	225	250	320	250	4-19
100-250	100	125	570	285	250	280	400	300	4-19
100-315	100	125	610	305	280	355	400	300	4-19
100-400	100	125	690	345	315	400	500	300	4-19
125-200	125	150	570	285	225	250	320	250	4-19
125-250	125	150	570	285	250	280	400	300	4-19
125-315	125	150	610	305	280	355	400	300	4-19
125-400	125	150	690	345	315	400	500	300	4-19
150-200	150	200	610	305	250	280	400	300	4-23
150-250	150	200	610	305	280	315	400	300	4-23
150-315	150	200	670	335	280	355	500	300	4-23
150-400	150	200	760	380	355	450	500	300	4-23



All dimensions are approximate.

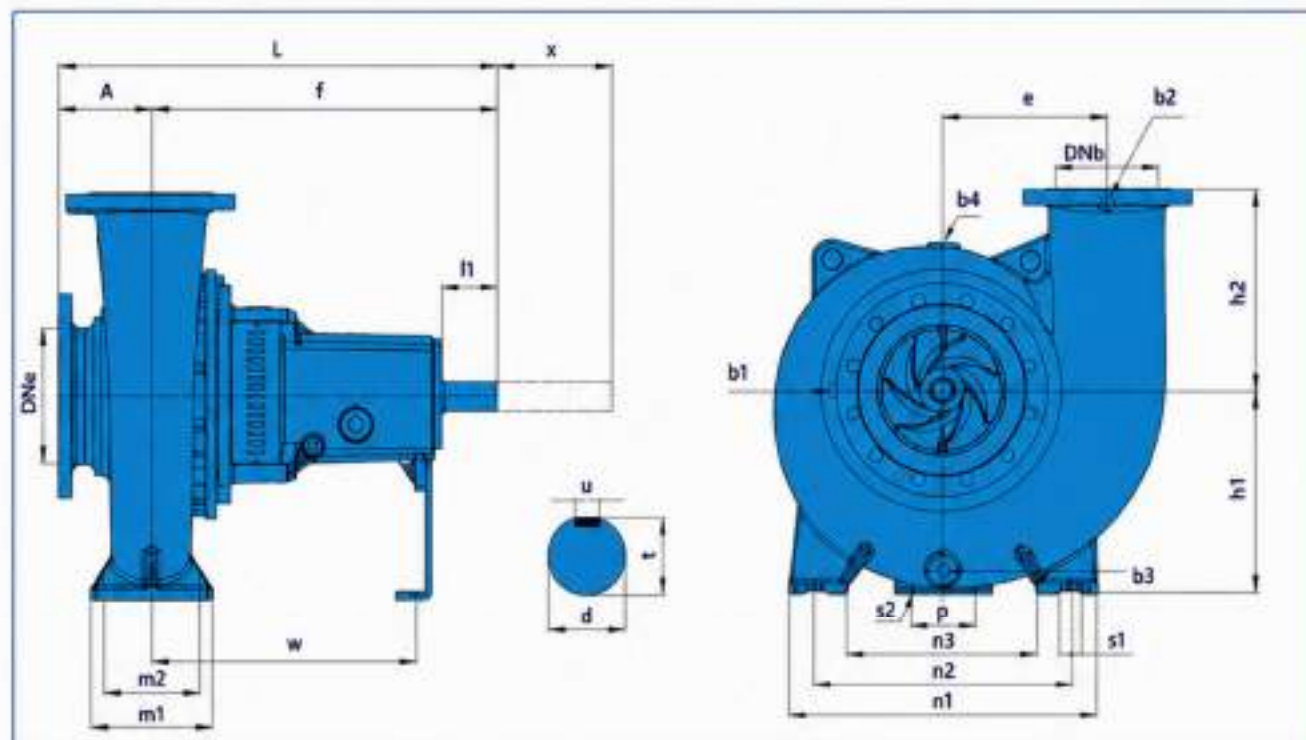
Micra Pompa reserves the right to change dimensions without prior notice.

ECO SGT

OVERALL DIMENSIONS

ECO SGT SERIES

END SUCTION CENTRIFUGAL PUMPS



DIMENSIONS (mm)																													
Pump Types	Form	Overall Dimensions								Foot Dimensions								Shaft End				Support Connections					Weight (kg)	Space H ² (mm)	
		DN _{in}	DN _b	A	f	L	h1	h2	e	m1	m2	n1	n2	n3	s1	p	s2	w	d	fl	t	u	b1	b2	b3	b4			b5
150-500	F2	200	150	200	750	950	400	450	350	250	200	720	600	435	27	140	20	560	55	110	59	16	1/2"	1/2"	1/2"	1/2"	1/2"	430	250
200-500	F2	250	200	200	750	950	400	400	325	250	200	680	500	360	23	140	20	560	55	110	59	16	1/2"	1/2"	1/2"	1/2"	1/2"	394	250
200-500	F2	250	200	200	800	1000	450	475	378	300	200	720	600	435	27	140	20	560	65	140	69	18	1/2"	1/2"	1/2"	1/2"	1/2"	540	250
250-400	F2	300	250	230	800	1030	450	480	350	300	240	720	600	435	27	140	20	560	65	140	69	18	1/2"	1/2"	1/2"	1/2"	1/2"	430	250
250-500	F2	300	250	225	800	1025	475	500	400	300	240	720	600	435	27	140	20	560	65	140	68	18	1/2"	1/2"	1/2"	1/2"	1/2"	620	250



All dimensions are approximate.

Micra Pompa reserves the right to change dimensions without prior notice.

(*) Depending on motor brand and power.

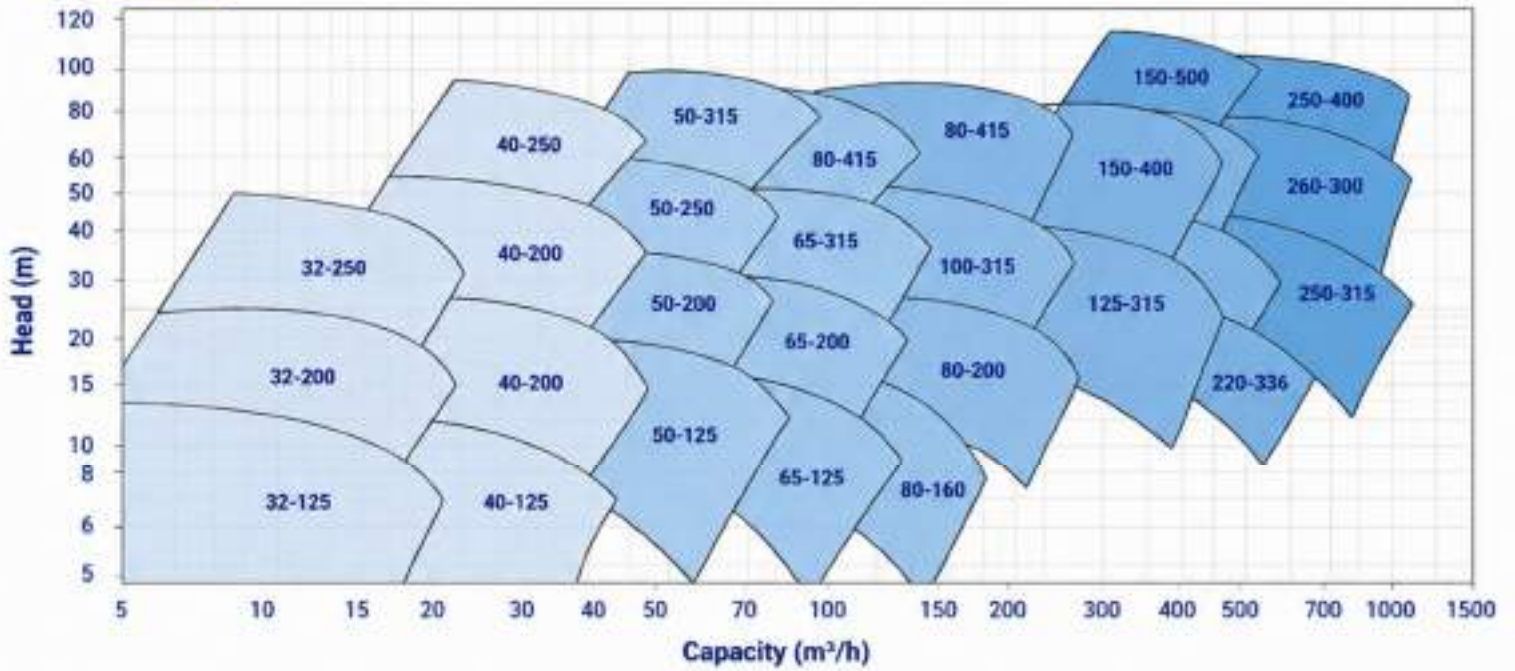
PERFORMANCE CURVES

ECO SGT

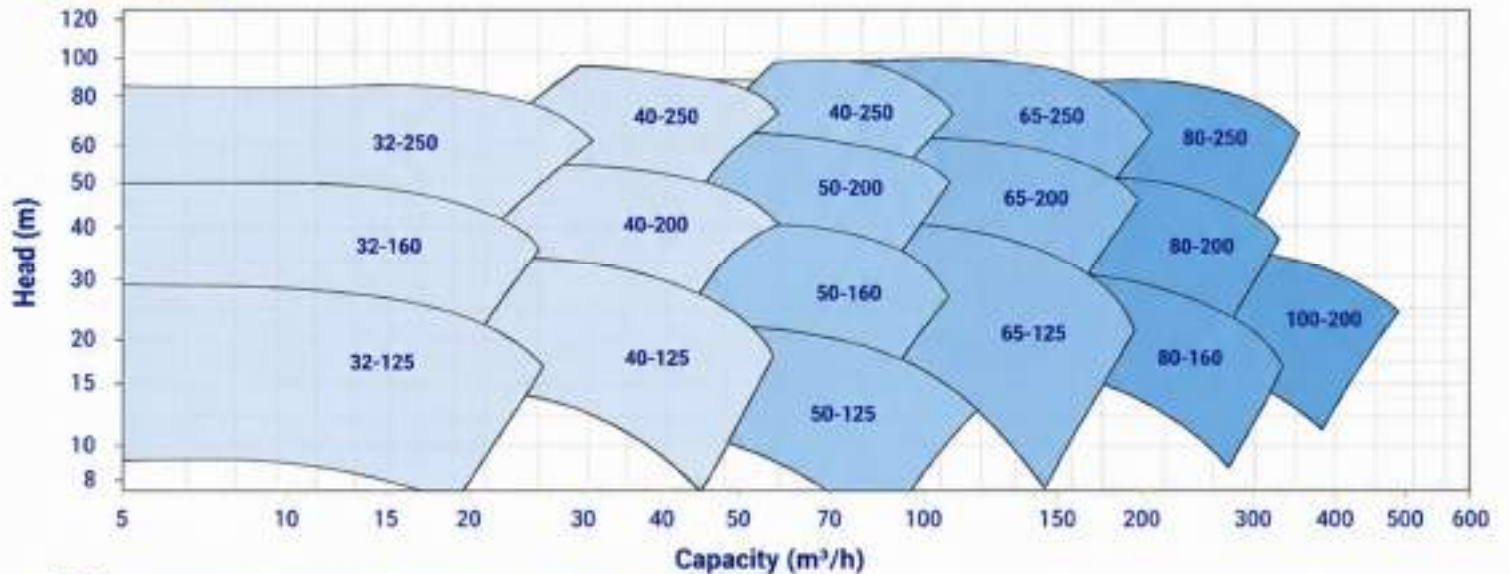
ECO SGT SERIES

END SUCTION CENTRIFUGAL PUMPS

1450 rpm



2900 rpm



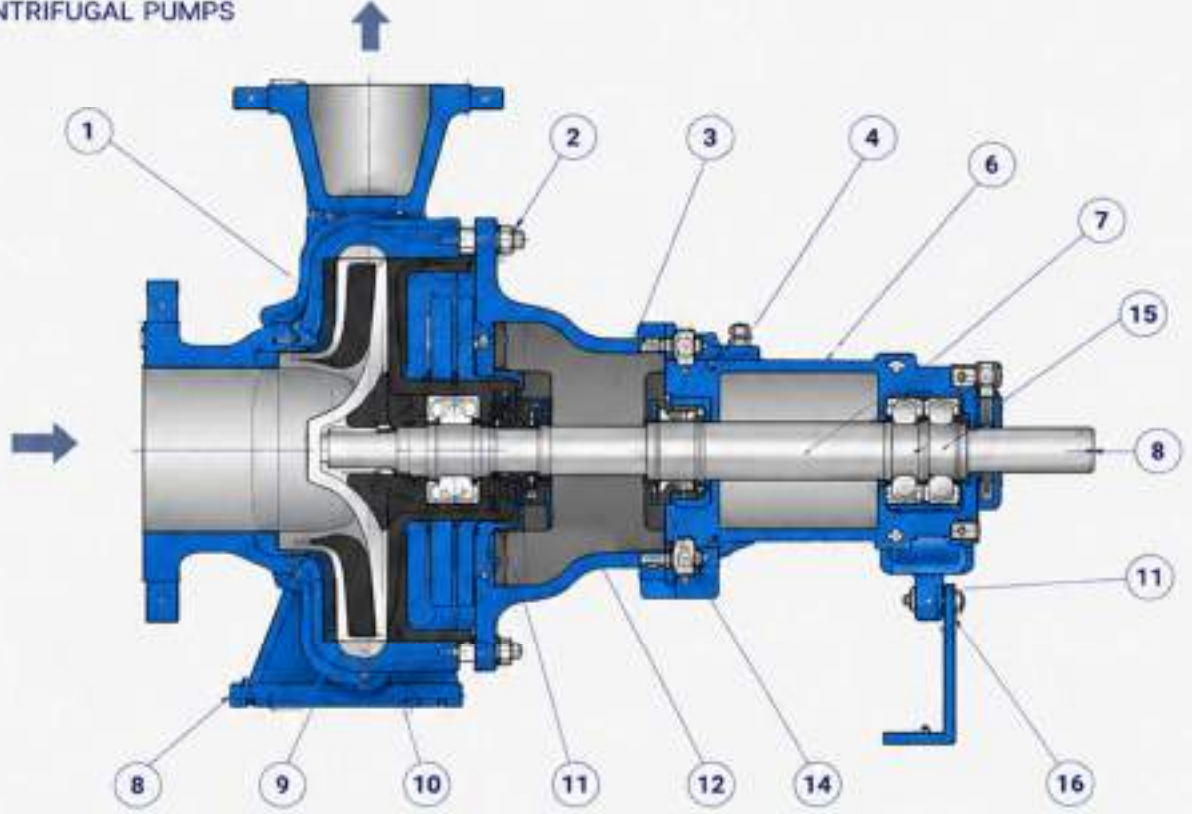
The curves are based on clear water ($\rho = 1000 \text{ kg/m}^3$)

Micra Pompa reserves the right to change the data without prior notice.

SECTIONAL DRAWING

ECO SGT SERIES

END SUCTION CENTRIFUGAL PUMPS



DESIGN FEATURES

- ✓ Back pull-out design allows easy maintenance without removing the casing from the piping.
- ✓ Axial thrust is balanced by impeller balancing holes system.
- ✓ All rotating parts are dynamically balanced according to ISO 1940 Grade 6.3.
- ✓ Replaceable wear ring protects casing from wear.
- ✓ Available with packing or mechanical seal.

NO.	DESCRIPTION	NO.	DESCRIPTION
1	Discharge Flange	9	Ball Bearing (DE)
2	Casing	10	Bearing Housing
3	Impeller	11	Support Foot
4	Wear Ring	12	Coupling Key
5	Casing Cover	13	Ball Bearing (NDE)
6	Lantern Ring	14	Mechanical Seal / Packing
7	Shaft Sleeve	15	Seal Cover
8	Shaft	16	Suction Flange



All dimensions are approximate.

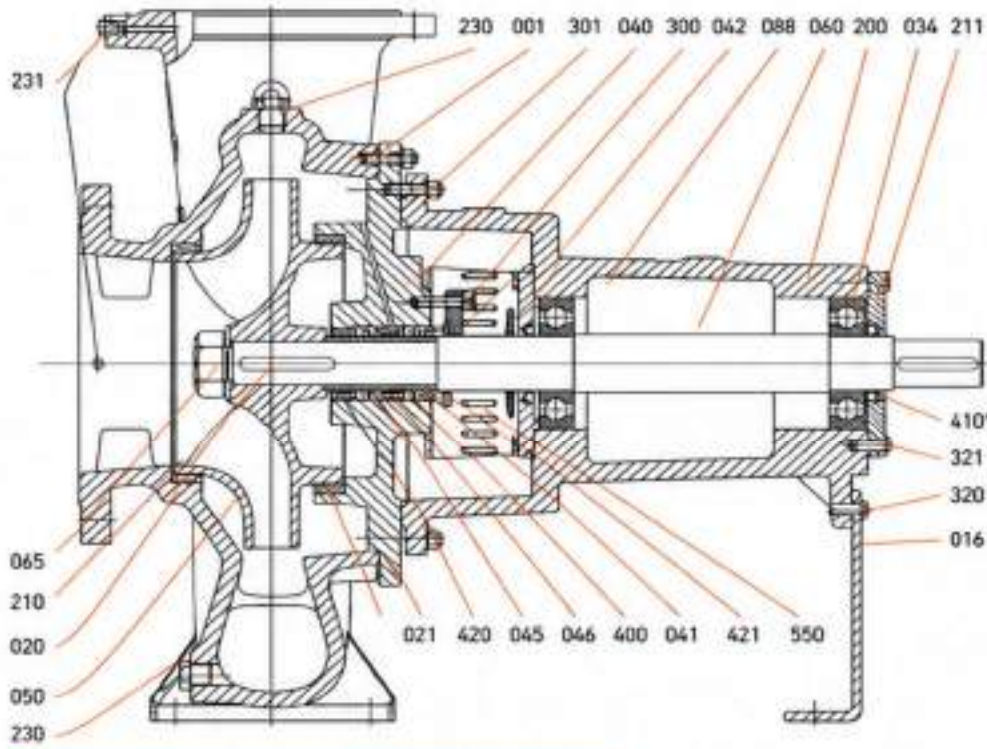
Micra Pompa reserves the right to change dimensions without prior notice.

SECTIONAL DRAWING & PART LIST

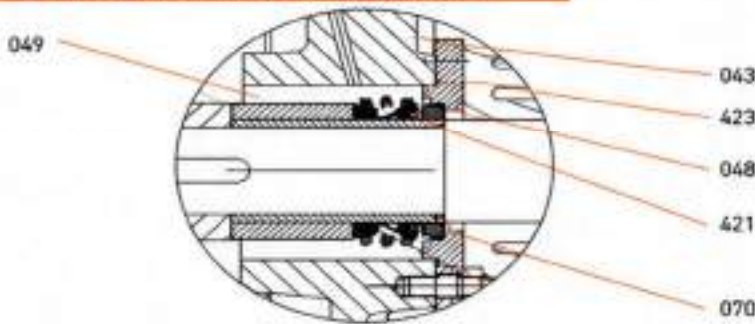
ECO SGT SERIES

END SUCTION CENTRIFUGAL PUMPS

Cross Section of ECO SGT 150-500, 200-400, 200-500, 250-315, 250-400 and 250-500



ECO SGT 150-500, 200-400, 200-500, 250-315, 250-400 and 250-500 for mechanical sealing application



ECO SGT

Part List

001	Volute Casing
016	Support Foot
020*	Wear Ring (Casing)
021*	Wear Ring (Seal Cover)
030	Bearing Housing
034*	Bearing Cover (GC)
035	Bearing Cover (St)
040	Soft Packing Seal Cover
041	Gland Sleeve
045	Sleeve
042	Gland
043*	Mechanical Seal Cover
046	Lantern Ring
048	Cover
049*	Mechanical Seal Spacer Sleeve
050	Impeller
060	Shaft
065	Impeller Nut and Washer
070*	Shaft Sleeve
088	Thrower
200	Ball Bearing
210	Impeller Key
211	Coupling Key
220	Circlip
230	Screw
231*	Screw
232*	Oil Filling Plug and Breather
234*	Oil Level Indicator
300	Gland Stud and Nut
301	Stud, Washer and Nut
320	Screw
321*	Screw
400	Soft Packing
405*	Mechanical Seal
410*	Lip Seal
420	O-ring
421*	O-ring
422*	Gasket
423	O-ring
550	Guard

(*) Optional



HIGH
RELIABILITY



QUALITY
MANUFACTURING



OPTIMUM
PERFORMANCE



EASY
MAINTENANCE



LONG SERVICE
LIFE



MECHANICAL SEAL & SOFT PACKING INFORMATION

Pump Type Pompa Tipi	Mechanical Seal / Mekanik Salmastra					Soft Packing / Yumuşak Salmastra		
	Shaft / Mil	Mechanical Seal Mekanik Salmastra	Bearing Box Rulman Yatağı	Rotary / Rulman		Soft Packing Set Salmastra Takımı	Soft Packing Length Yumuşak Salmastra Uzunluğu	Casing Support Destek Ayağı
				O-Ring / Oİ Kapak içi Conta	Lantern Ring Çark Contası			
32-125	1 No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	1 No.
32-160	1 No.	MG1 30 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	2 No.
32-200	1 No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	3 No.
32-250	2 No.	MG1 30 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	4 No.
40-125	1 No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	1 No.
40-160	1 No.	MG1 30 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	2 No.
40-200	1 No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	3 No.
40-250	2 No.	MG1 30 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	4 No.
40-315	3 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	7 No.
50-125	1 A No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	2 No.
50-160	1 A No.	MG1 35 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	3 No.
50-200	1 A No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	3 No.
50-250	4 No.	MG1 35 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	4 No.
50-315	5 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	8 No.
65-125	1 B No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	3 No.
65-160	1 B No.	MG1 35 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	3 No.
65-200	1 A No.	MG1 30 mm	1 No.	2x6306	2x6306	1 No.	8x830 mm	4 No.
65-250	5 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	7 No.
65-315	5 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	8 No.
65-400	5 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	10 No.
80-200	5 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	6 No.
80-250	5 A No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	7 No.
80-315	5 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	9 No.
80-400	6 No.	MG1 50 mm	4 No.	2x6310	2x6310	3 No.	12x430 mm	10 No.
100-160	1 No.	MG1 30 mm	2 No.	2x6306	2x6306	1 No.	8x830 mm	5 No.
100-200	5 No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	7 No.
100-250	5 A No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	8 No.
100-315	5 A No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	9 No.
100-400	6 No.	MG1 50 mm	4 No.	2x6310	2x6310	3 No.	12x430 mm	10 No.
125-200	5 A No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	9 No.
125-250	5 A No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	9 No.
125-315	6 A No.	MG1 50 mm	5 No.	2x6310	2x6310	3 No.	12x430 mm	10 No.
125-400	5 No.	MG1 50 mm	4 No.	2x6310	2x6310	3 No.	12x430 mm	12 No.
150-200	5 A No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	11 No.
150-250	5 A No.	MG1 40 mm	3 No.	2x6306	2x6306	2 No.	10x500 mm	11 No.
150-315	6 A No.	MG1 50 mm	5 No.	2x6310	2x6310	3 No.	12x430 mm	11 No.
150-400	6 No.	MG1 50 mm	5 No.	2x6310	2x6310	3 No.	12x430 mm	12 No.
150-500	7 No.	MG1 60 mm	5 No.	2x6312	2x6312	4 No.	12x490 mm	14 No.
150-200	7 No.	MG1 50 mm	5 No.	2x6310	2x6310	3 No.	12x430 mm	13 No.
200-200	10 No.	MG1 50 mm	5 No.	2x6310	2x6310	3 No.	12x430 mm	13 No.
200-315	19 No.	MG1 50 mm	5 No.	2x6310	2x6310	3 No.	12x430 mm	13 No.
200-400	7 No.	MG1 60 mm	6 No.	2x6312	2x6312	4 No.	12x490 mm	14 No.
200-500	10 No.	MG1 65 mm	7 No.	7315	NU 2315	5 No.	16x1365 mm	15 No.
250-315	10 No.	MG1 65 mm	7 No.	7315	NU 2315	5 No.	16x1365 mm	15 No.
250-400	7 No.	MG1 65 mm	6 No.	2x6312	2x6312	4 No.	12x490 mm	14 No.
250-500	10 No.	MG1 65 mm	7 No.	7315	NU 2315	5 No.	16x1365 mm	15 No.
250-600	10 No.	MG1 65 mm	7 No.	7315	NU 2315	5 No.	16x1365 mm	15 No.

(*) Optional: Depending on customer requirement or request different types and brands of mechanical seals are applicable.

NOTE: Depends on the request, different than above casting and shaft material can be supplied.

● Standard manufacturing

○ Optional

FLANGE DIMENSIONS

ECO SGT SERIES END SUCTION CENTRIFUGAL PUMPS

Flange dimensions are in accordance
with EN 1092-2 (PN 16).

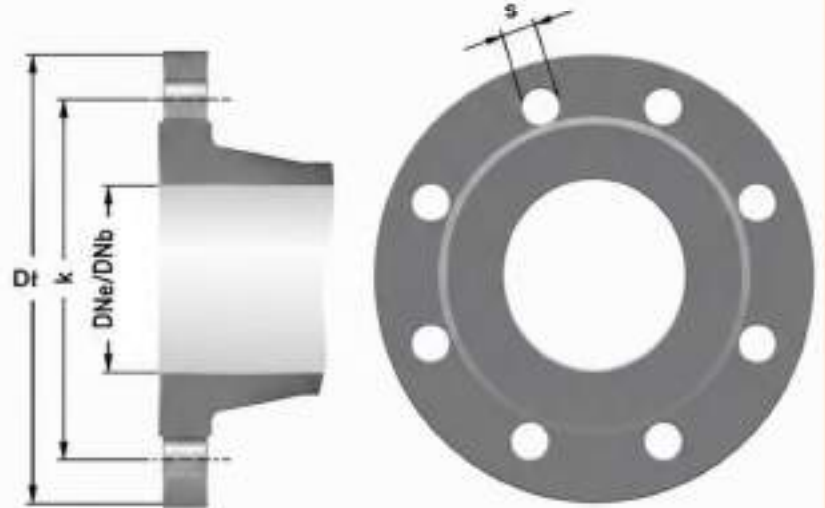


PUMP COLOR:
RAL 5002

EN 1092-2

SUCTION & DISCHARGE (PN 16)

DNe/DNb	Df	k	s	n*
32	140	100	18	4
40	150	110	18	4
50	165	125	18	4
65	185	145	18	4
80	200	160	18	8
100	250	130	18	8
155	285	240	22	8
200	340	295	22	12
250	405	355	26	12
300	460	410	26	12



* n = number of holes



HIGH
RELIABILITY



QUALITY
MANUFACTURING



OPTIMUM
PERFORMANCE



EASY
MAINTENANCE



LONG SERVICE
LIFE





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