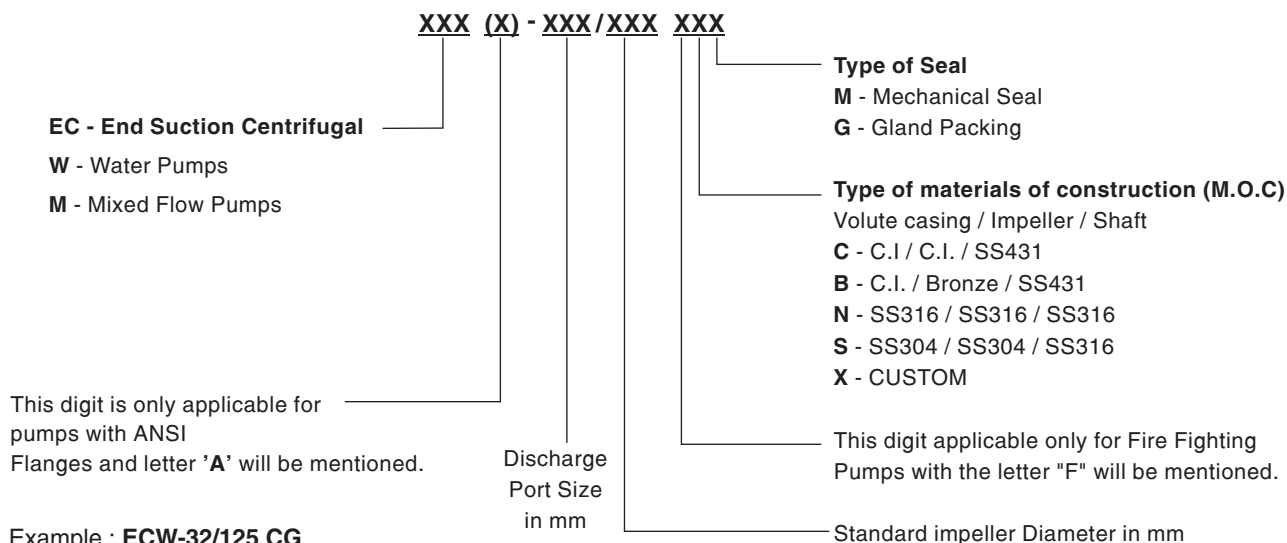


ECW SERIES 50Hz

EN 733
End Suction - Centrifugal Pumps



MODEL IDENTIFICATION CODE



MATERIAL OF CONSTRUCTION

TYPE C

Parts Name	Material	EUROPEAN	DIN	SAE/AISI
Casing	Cast Iron	EN-GJL-250	(0.6025) GG25	ASTM A48 class 40
Impeller	Cast Iron	EN-GJL-220	(0.6020) GG20	ASTM A48 class 30B
Stuffing Box	Cast Iron	EN-GJL-250	(0.6025) GG25	ASTM A48 class 40
Wear Ring	Cast Iron	EN-GJL-220	(0.6020) GG20	ASTM A48 class 30B
Bearing Frame	Cast Iron	EN-GJL-220	(0.6020) GG20	ASTM A48 class 30B
Shaft	SS 431	X17CrNi16-2	1.4057	ASTM A276 AISI 431
Shaft Sleeve	SS 410	X12Cr13	1.4006	ASTM A276 AISI 410

TYPE B

Parts Name	Material	EUROPEAN	DIN	SAE/AISI
Casing	Cast Iron	EN-GJL-250	(0.6025) GG25	ASTM A48 class 40
Impeller	Bronze LTB2	G-CuPb15Sn	DIN 1716-1981	ASTM B505 C93800
Stuffing Box	Cast Iron	EN-GJL-250	(0.6025) GG25	ASTM A48 class 40
Wear Ring	LTB4	G-CuPb15Sn	DIN 1716-1981	ASTM B505 C93800
Bearing Frame	Cast Iron	EN-GJL-220	(0.6020) GG20	ASTM A48 class 30B
Shaft	S.S 431	X17CrNi16-2	1.4057	ASTM A276 AISI 431
Shaft Sleeve	S.S 410	X12Cr13	1.4006	ASTM A276 AISI 410

TYPE N

Parts Name	Material	EUROPEAN	DIN	SAE/AISI
Casing	CF8M (SS316)	X6CrNiMo 18 10	1.4408	ASTM A743 / A351 CF8M
Impeller	CF8M (SS316)	X6CrNiMo 18 10	1.4408	ASTM A743 / A351 CF8M
Stuffing Box	CF8M(SS316)	X6CrNiMo 18 10	1.4408	ASTM A743 / A351 CF8M
Wear Ring	S.S 304	X5CrNi18-9	1.4308	ASTM A743 / A351 CF8
Bearing Frame	Cast Iron	EN-GJL-220	(0.6020) GG20	ASTM A48 class 30B
Shaft	S.S 316	X5CrNiMo 18 10	1.4401	ASTM A276 AISI 316
Shaft Sleeve	S.S 316	X5CrNiMo 18 10	1.4401	ASTM A276 AISI 316

TYPE S

Parts Name	Material	EUROPEAN	DIN	SAE/AISI
Casing	Cf8 (SS 304)	X5CrNi18-9	1.4308	ASTM A743 / A351 CF8
Impeller	CF8 (SS 304)	X5CrNi18-9	1.4308	ASTM A743 / A351 CF8
Stuffing Box	CF8 (SS 304)	X5CrNi18-9	1.4308	ASTM A743 / A351 CF8
Wear Ring	S.S 304	X5CrNi18-9	1.4308	ASTM A743 / A351 CF8
Bearing Frame	Cast Iron	EN-GJL-220	(0.6020) GG20	ASTM A48 class 30B
Shaft	S.S 304	X5CrNi18-10	1.4301	ASTM A276 AISI 304
Shaft Sleeve	S.S 304	X5CrNi18-10	1.4301	ASTM A276 AISI 304

GENERAL DATA

DESCRIPTION

ECW series are single stage end suction and centreline discharge type which are widely used in various industrial applications. These pumps are supplied with radial flow closed impeller and its mounting and dimensions are in accordance with EN733 / DIN24255 standards. Precision bearings and machining control shaft deflection, enabling smooth operation of pump. A Common stuffing box is used for gland and mechanical seal to reduce the inventory at the customer end. Standard flange drillings are as per DIN with raised faces. These pumps can also be supplied in vertical configuration against certain process applications.

SALIENT FEATURES

- Wide hydraulic ranges
- Gland and mechanical seal options
- Pre lubricated sealed bearings for maximum life.
- Common stuffing box for gland and mechanical seal.
- Different material options

APPLICATIONS

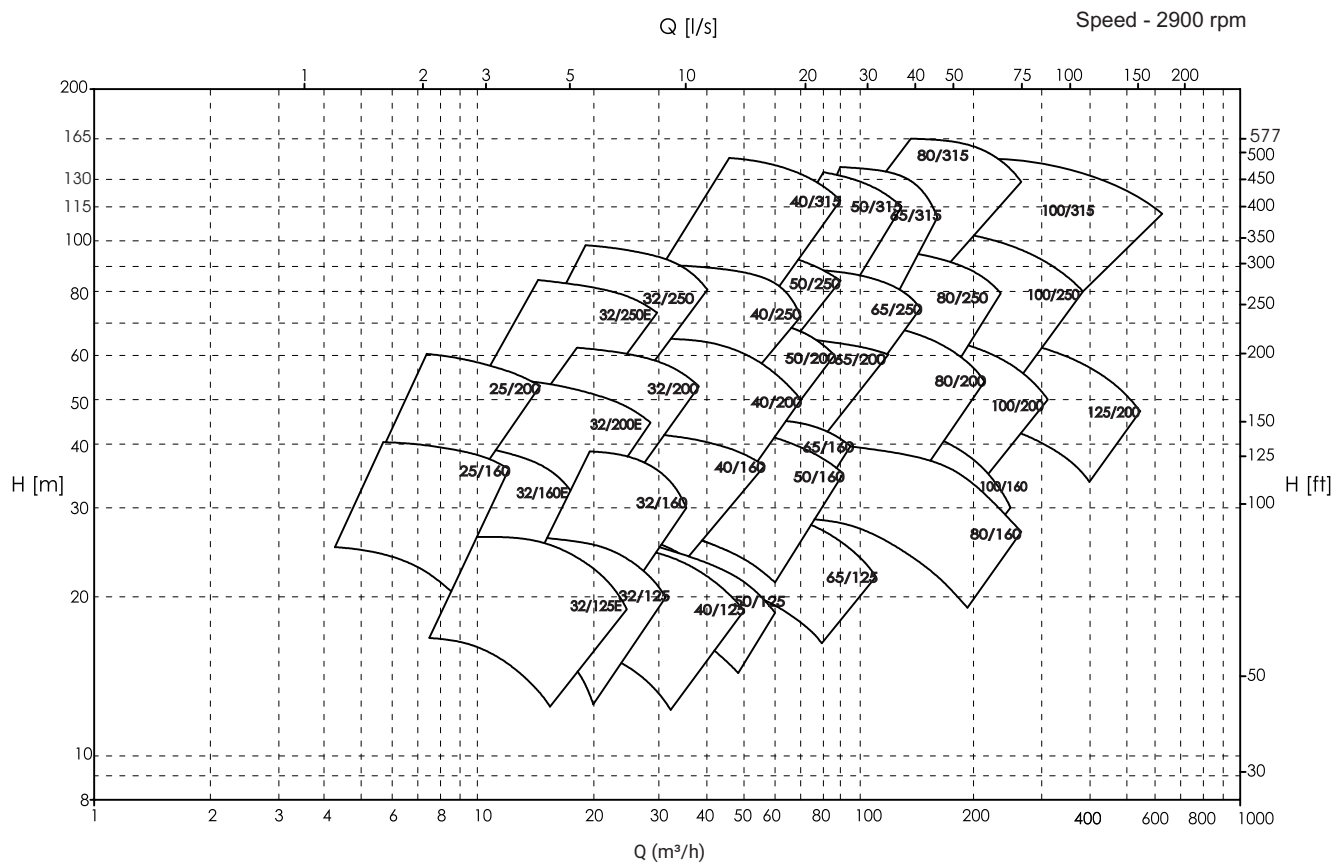
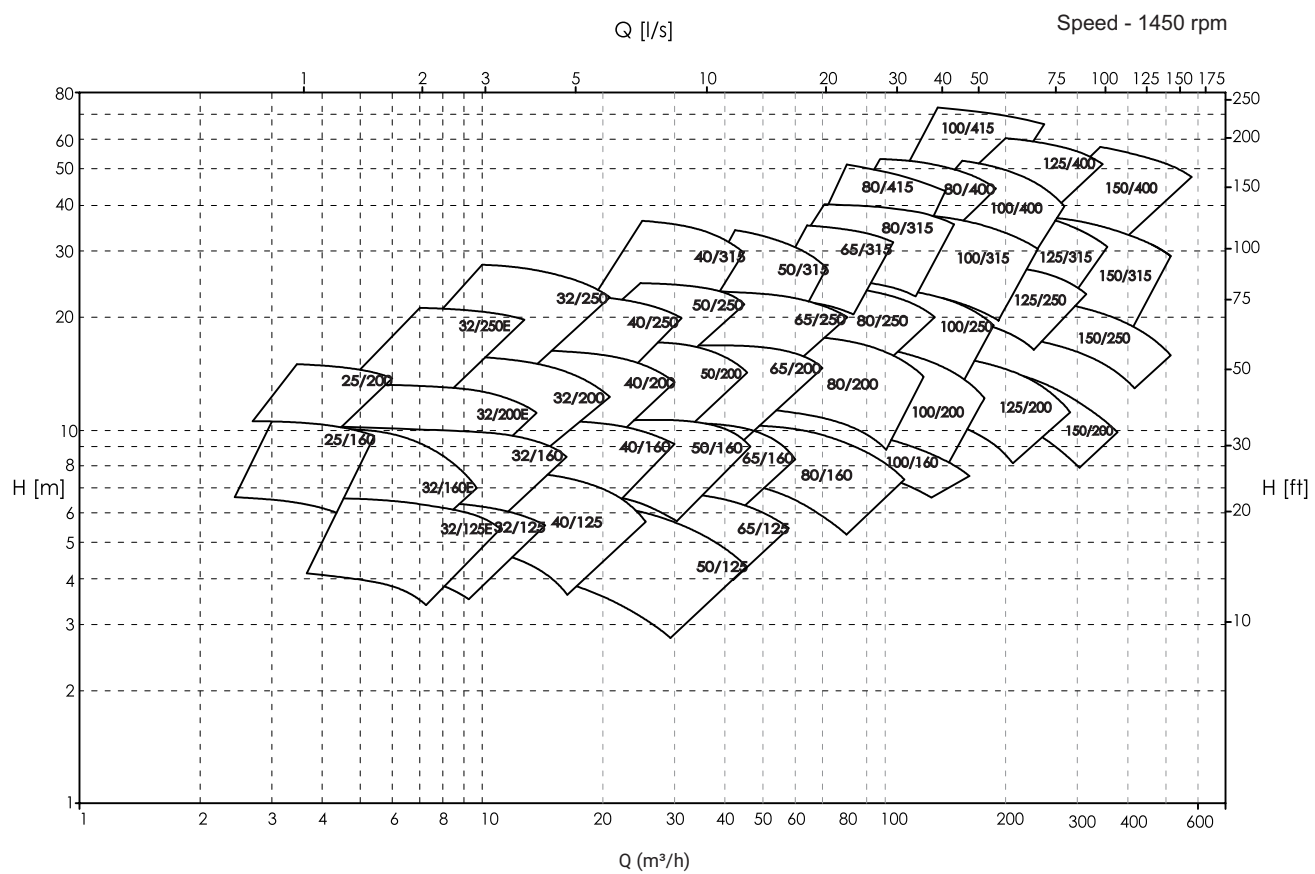
- Circulation of water in industries
- Brine transfer
- Cooling water supply
- Air conditioning and refrigeration
- Water treatment plants
- Utility water supply in residential and commercial buildings
- Pressure boosting system.
- Firefighting systems
- Irrigation



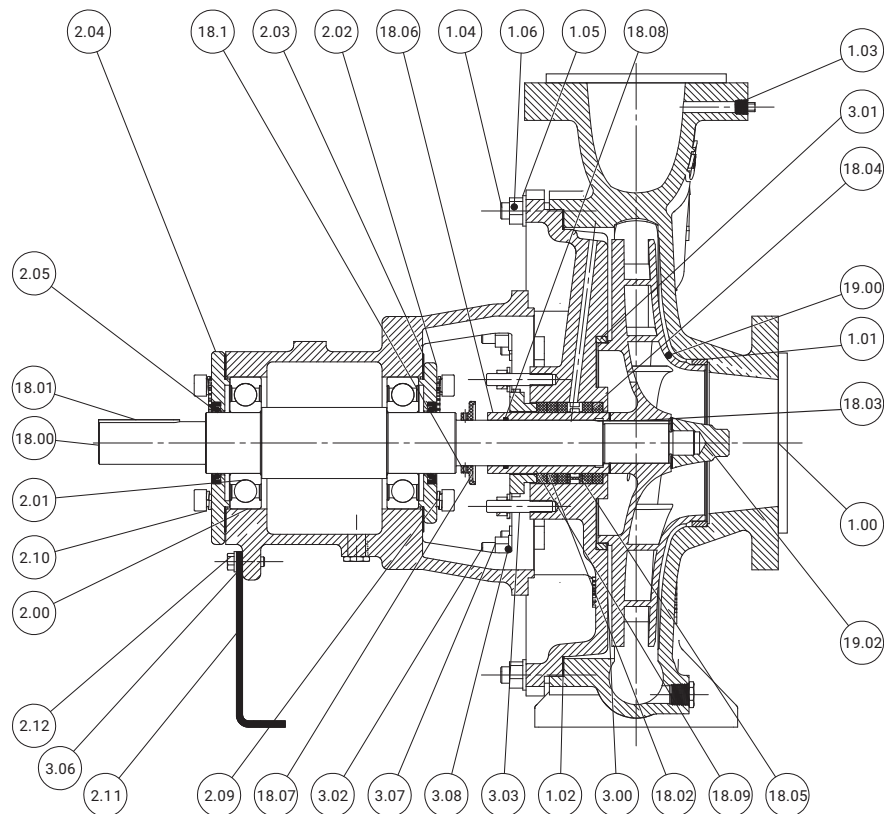
OPERATING DATA

Flow	Upto 610 m ³ /h
Head	Upto 165 m
Outlet Size	Upto 150 mm
Liquid Temp.	Upto 90°C
Working Pressure	Upto 16 bar
MOC	CI, Bronze & SS

GROUP PERFORMANCE CURVE



CROSS SECTIONAL DRAWING



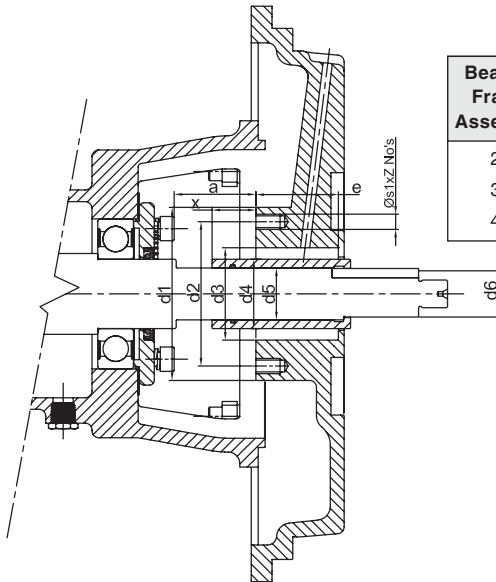
Part No	Part Name
1,00	Casing
1,01	Front Wearing Ring
1,02	Gasket Casing
1,03	Square Plug
1,04	Stud M16*
1,05	Flat Washer M16*
1,06	Hex Nut - M16 x 2*
2,00	Bearing Frame
2,01	Deep Groove Ball Bearing
2,02	Front Cover
2,03	Gasket - Rear Cover
2,04	Rear Cover
2,05	Oil Seal
2,09	Lock Washer
2,10	Socket Head Bolt
2,11	Support Foot
2,12	Hex. Bolt M10*
3,00	Stuffing Box
3,01	Rear Wear Ring

Part No	Part Name
3,02	Stud M16*
3,03	Stud M12*
3,04	Flat Washer M12*
3,05	Hex Nut - M12 x 1.75*
3,06	Flat Washer M10*
3,07	Nut M16*
3,08	Washer M16*
18,00	Shaft
18,01	Key - Coupling
18,02	Sleeve Shaft
18,03	Key - Impeller
18,04	Gland Packing
18,05	Lantern Ring
18,06	Split Gland
18,07	Deflector
18,08	O-Ring
18,09	Gasket Sleeve
18,10	Grub Screw
19,00	Impeller
19,02	Impeller Nut

* Size can be varying based on frame size.

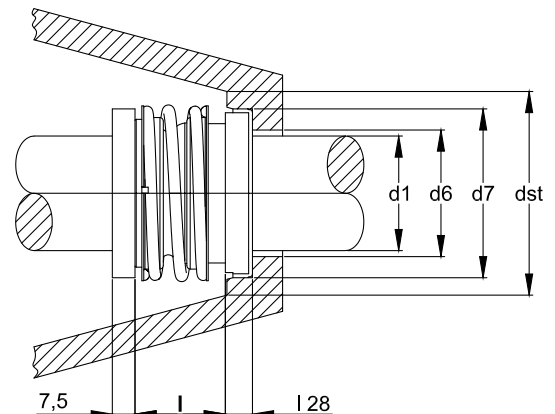
STUFFING BOX DETAILS

Standard Mechanical Seal Housing



Bearing Frame Assembly	x	e	d1	d2	d3	d4	d5	Seal O.D	Gland O.D	L1	OP.Lth	L2	s1xZnos
25	18	60	84	65	51	30	25	49	80~84	3	26.5	7.5	4xM8
32	20	60	94	80	61	38	32	59	92~96	3	30	9	4xM8
42	35	71.5	150	125	80	53	45	78.5	130~135	6	33	11	4xM12

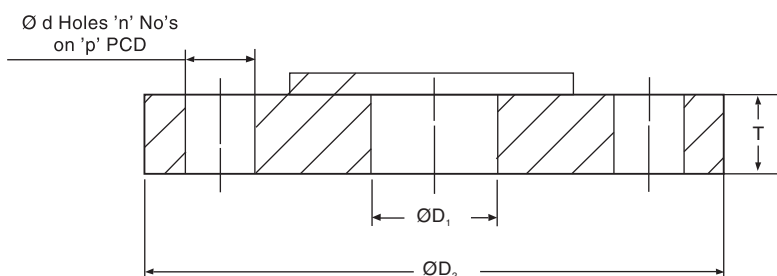
Conical seal housing



Seal seat	D1	D6	D7	DST	1	128
G60	30	39	45	50	26.5	7.5
G60	38	49	56	61	30	9
G60	53	65	73	81	33	11

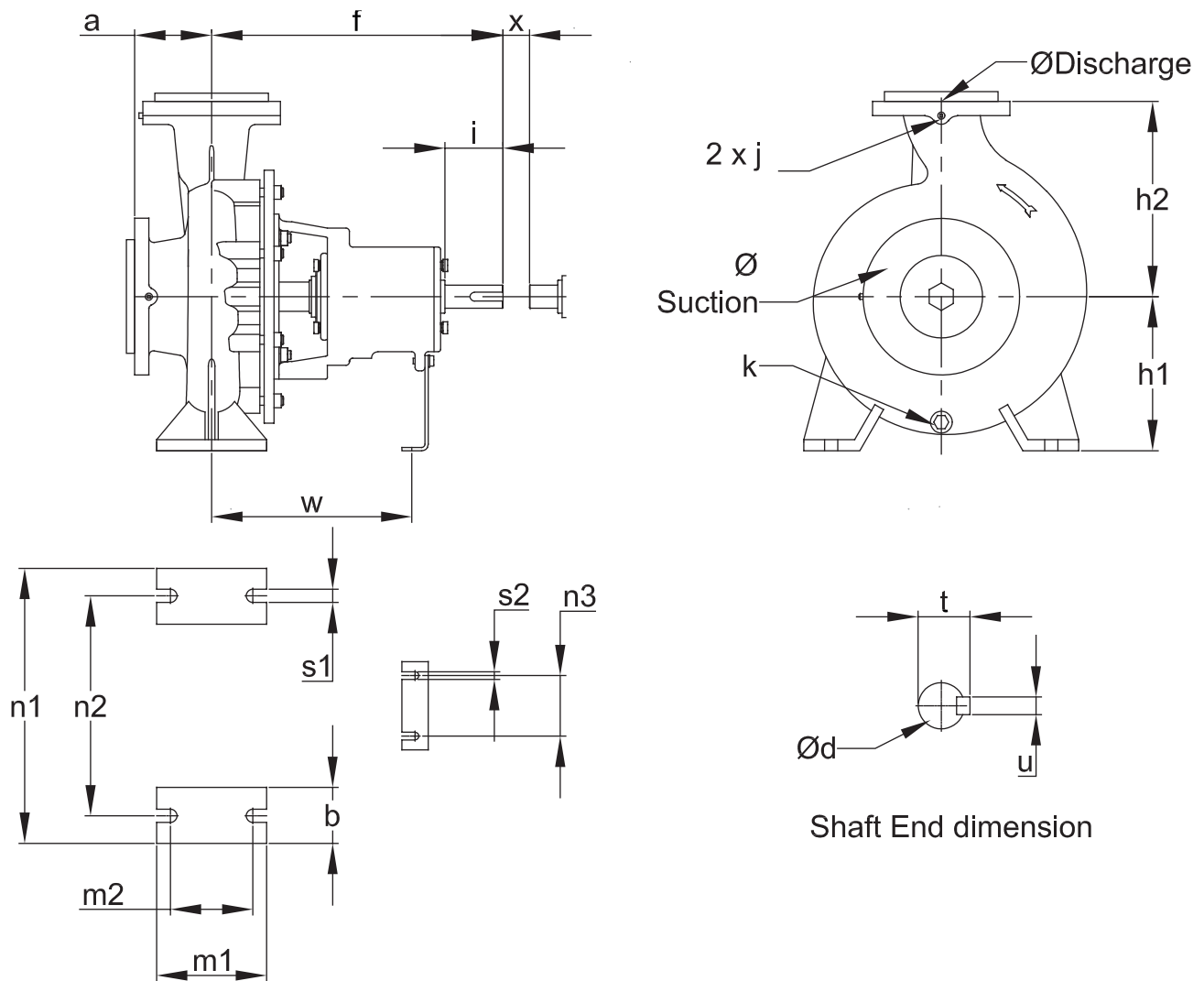
Note : Sleeve optional

Flange Dimensions - PN 16



S.No	Ø D1	Ø D2	P	n	Ø d	T
1	25	115	85	4	14	16
2	32	140	100	4	18	18
3	40	150	110	4	18	19
4	50	165	125	4	18	19
5	65	185	145	4	18	20
6	80	200	160	8	18	22
7	100	220	180	8	18	24
8	125	250	210	8	18	19
9	150	285	240	8	22	26

BARE SHAFT PUMP DIMENSIONS



Note :- Pump with impeller outer diameter above 250mm at 2900rpm is not recommended. On specific demand, pump can be supplied with strengthened shaft and bearing to run at 2900rpm.