

since 1906
albany
pump company ltd.

ACW SERIES

**EN733 - END SUCTION
PUMP**



MANUFACTURING HEADQUARTER:

420 Harry Walker pkwy. Newmarket, Ontario Canada, L3Y 8P5

Sales Office:

Burnaby, B.C. (Canada) | Buffalo, New York, (USA)

Phone: (905) 853-9005 | Toll Free: 1 (888) 334-3348

Fax: (888) 335-3391

E-mail: sales@albanyump.com

www.albanyump.com

GENERAL DATA

DESCRIPTION

ACW series are single stage end suction back pull out, top 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
- Back pull out design

APPLICATIONS

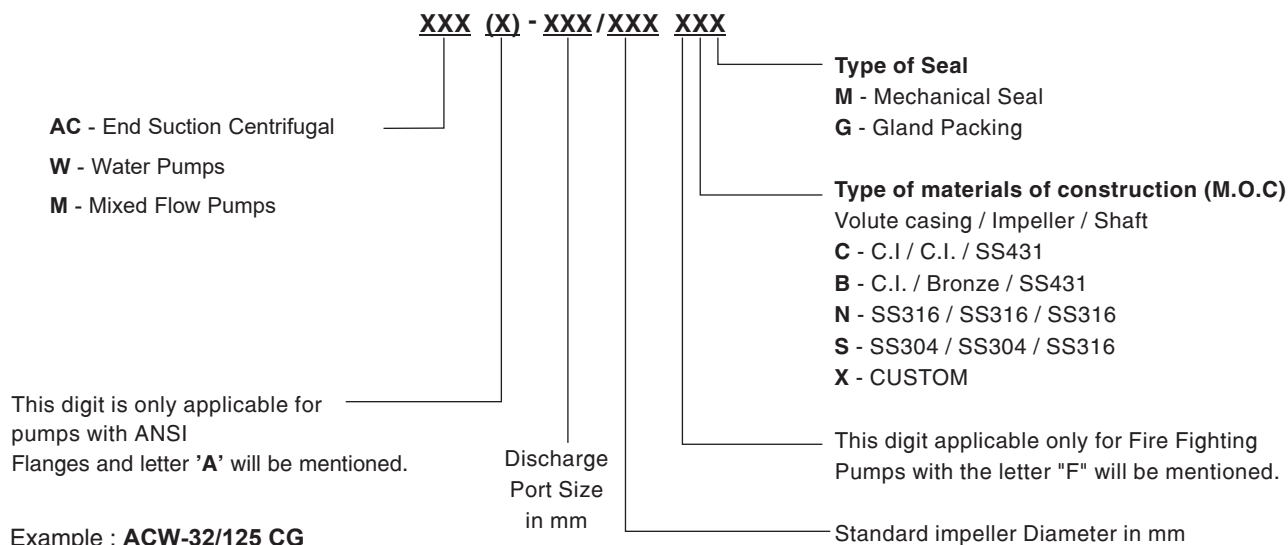
- Circulation of water in industries
- Brine transfer
- Cooling water supply
- Air conditioning and refrigeration
- Water treatment plants
- Utility water supply in residential and commercial buildings
- Pressure boosting system.
- Firefighting systems
- Irrigation



OPERATING DATA

Flow	Upto 2641gpm
Head	Upto 524ft
Outlet Size	Upto 6"
Liquid Temp.	Upto 194°F
Working Pressure	Upto 16 bar
MOC	CI, Bronze, Alloy steel & SS

MODEL IDENTIFICATION CODE



MATERIAL OF CONSTRUCTION

TYPE C

Parts Name	Material
Casing	Cast Iron
Impeller	Cast Iron
Stuffing Box	Cast Iron
Wear Ring	Cast Iron
Bearing Frame	Cast Iron
Shaft	SS 431
Shaft Sleeve	SS 410

TYPE B

Parts Name	Material
Casing	Cast Iron
Impeller	Bronze LTB2
Stuffing Box	Cast Iron
Wear Ring	LTB4
Bearing Frame	Cast Iron
Shaft	S.S 431
Shaft Sleeve	S.S 410

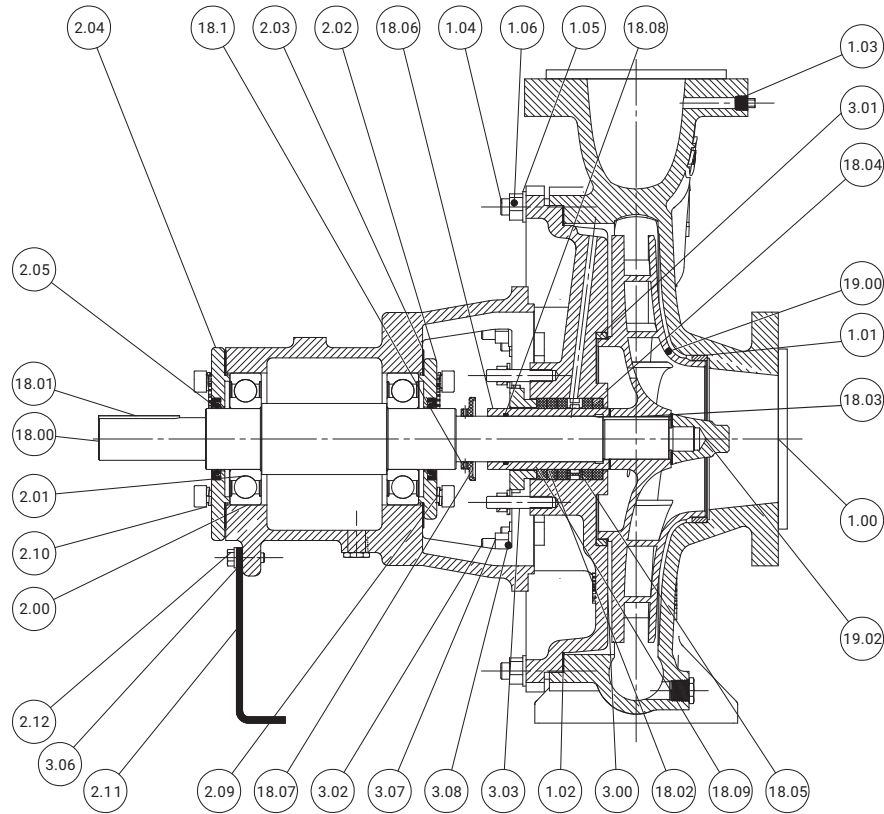
TYPE N

Parts Name	Material
Casing	CF8M (SS316)
Impeller	CF8M (SS316)
Stuffing Box	CF8M(SS316)
Wear Ring	S.S 304
Bearing Frame	Cast Iron
Shaft	S.S 316
Shaft Sleeve	S.S 316

TYPE S

Parts Name	Material
Casing	Cf8 (SS 304)
Impeller	CF8 (SS 304)
Stuffing Box	CF8 (SS 304)
Wear Ring	S.S 304
Bearing Frame	Cast Iron
Shaft	S.S 304
Shaft Sleeve	S.S 304

CROSS SECTIONAL DRAWING



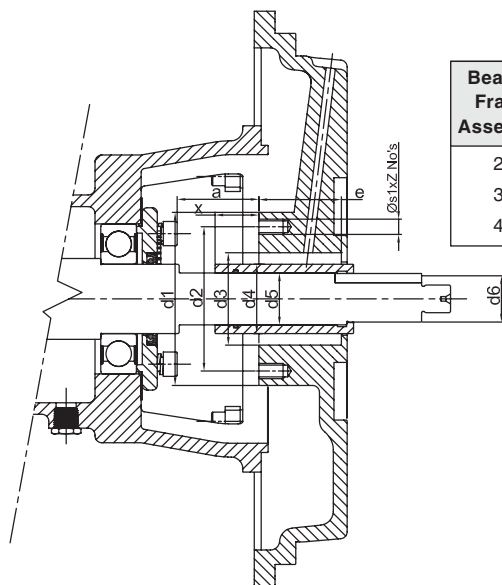
Part No	Part Name
1,00	Casing
1,01	Front Wearing Ring
1,02	Gasket Casing
1,03	Square Plug
1,04	Stud M16*
1,05	Flat Washer M16*
1,06	Hex Nut - M16 x 2*
2,00	Bearing Frame
2,01	Deep Groove Ball Bearing
2,02	Front Cover
2,03	Gasket - Rear Cover
2,04	Rear Cover
2,05	Oil Seal
2,09	Lock Washer
2,10	Socket 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.

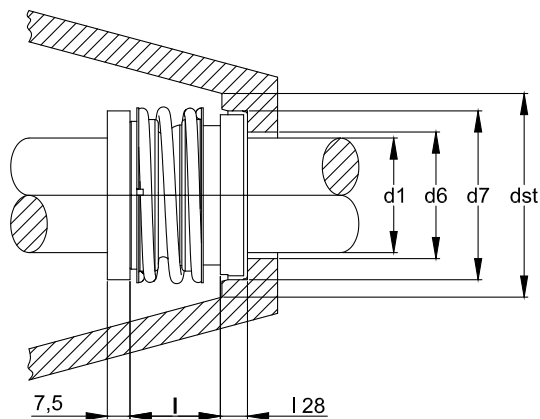
STUFFING BOX DETAILS

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

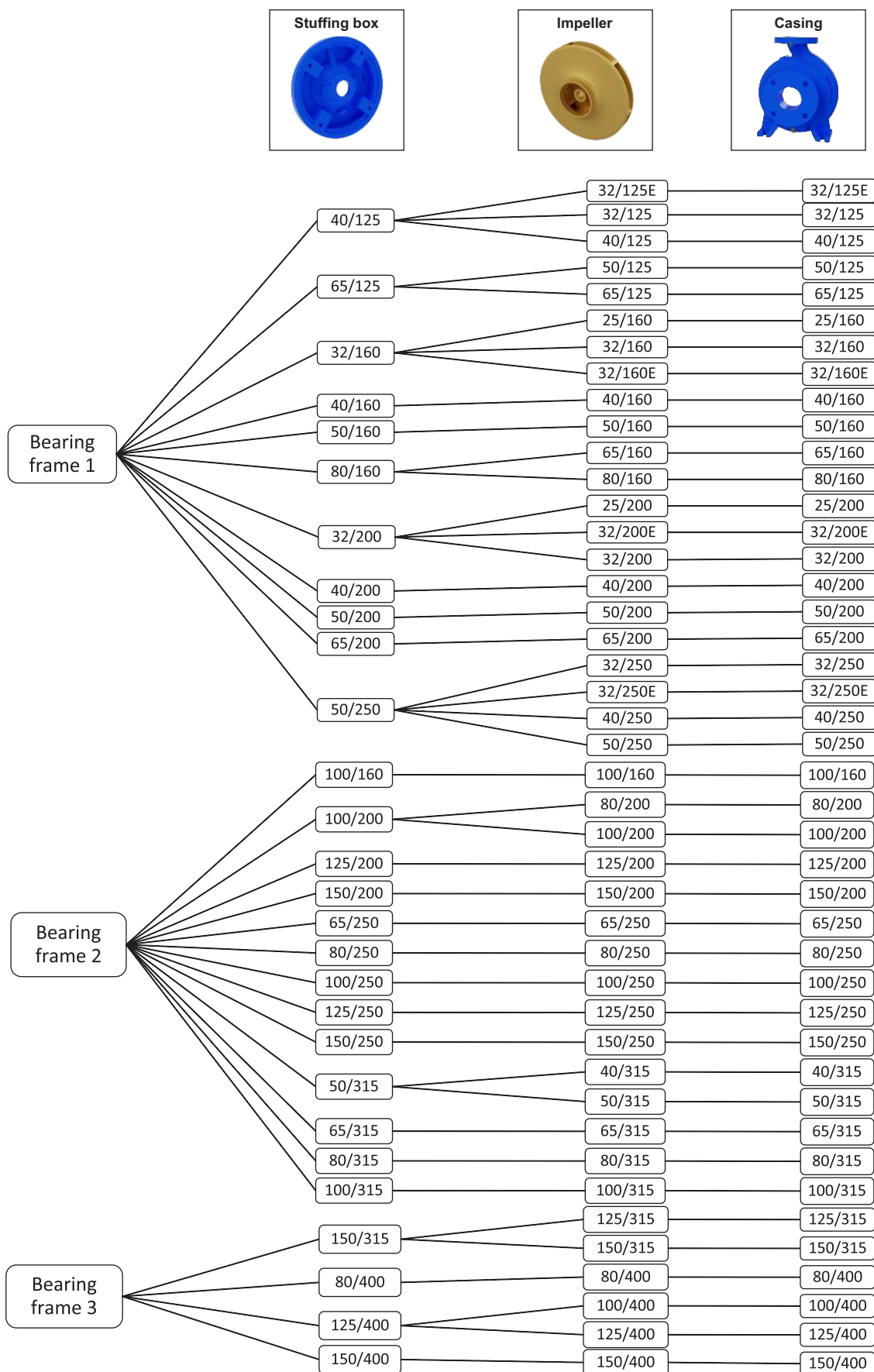
Conical seal housing



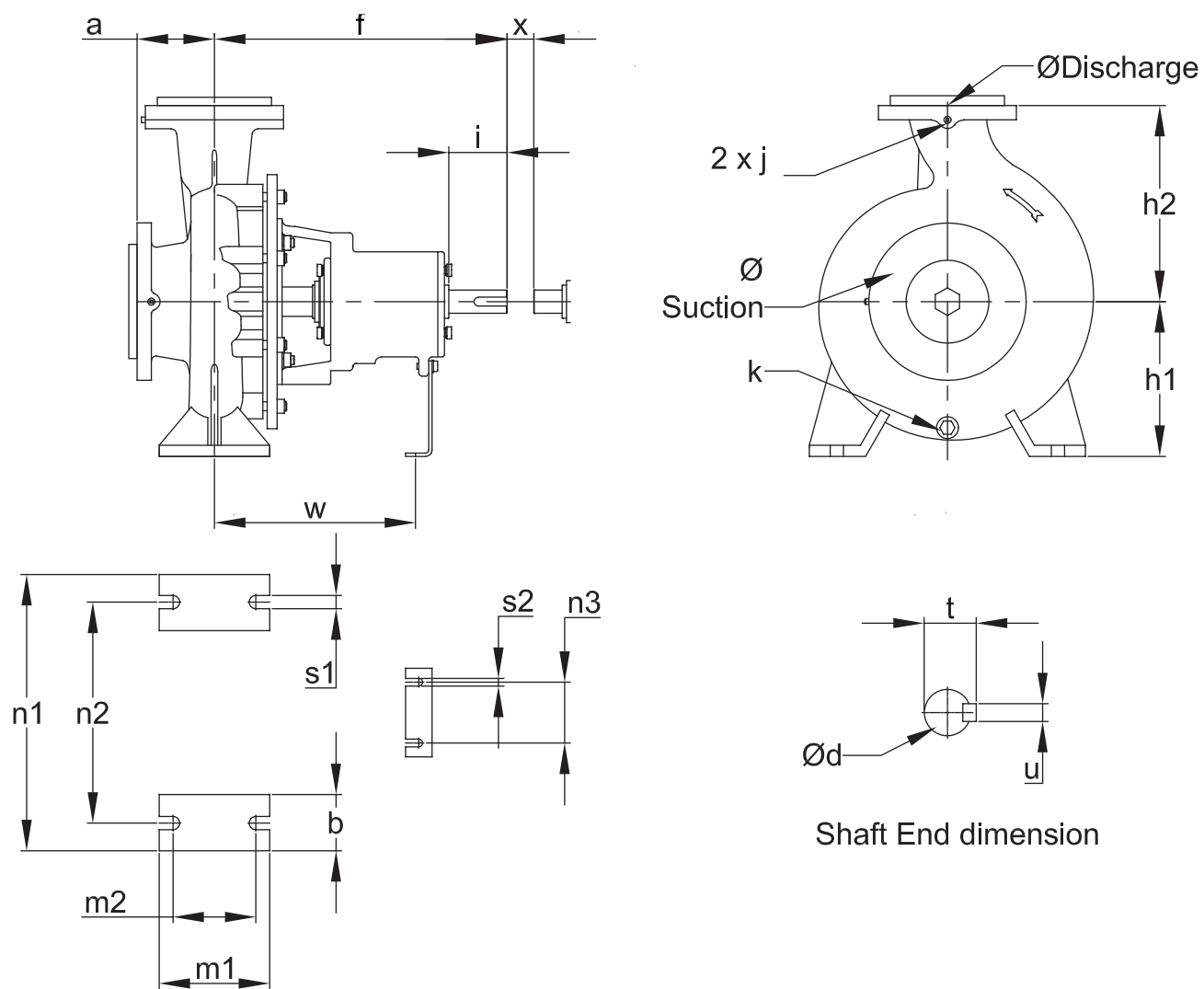
Seal seat	D1	D6	D7	DST	1	128
G60	30	39	45	50	26.5	7.5
G60	38	49	56	61	30	9
G60	53	65	73	81	33	11

Note : Sleeve optional

INTERCHANGEABILITY CHART



BARE SHAFT PUMP DIMENSIONS



BARE PUMP DIMENSIONS

ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

PUMP MODEL	SUC. ØA	DEL. ØB	MAX SPHERE SIZE	PUMP						PUMP MOUNTING DIMENSIONS												SHAFT END					PUMP WEIGHT (Kg)
				a	f	h1	h2	j	k	m1	m2	m3	b	n1	n2	n3	n4	s1	s2	w	i	Ød	u	t	x		
32/125E	50	32	6	80	360	112	140	G1/4"	G1/4"	100	70	48	50	190	140	110	160	14	14	260	50	24	8	27	100	28	
32/125	50	32	9	80	360	112	140	G1/8"	G1/4"	100	70	48	50	190	140	110	160	14	14	260	50	24	8	27	100	28	
40/125	65	40	10	80	360	112	140	G1/8"	G1/4"	100	70	48	50	210	160	110	160	14	14	260	50	24	8	27	100	30	
50/125	65	50	9	100	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	32	
65/125	80	65	9	100	360	160	180	G1/8"	G1/4"	125	95	48	65	280	212	110	160	14	14	260	50	24	8	27	100	35.5	
25/160	40	25	4	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	32	
32/160	50	32	6.5	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	34	
32/160E	50	32	5	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	33	
40/160	65	40	13	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	35	
50/160	65	50	13	100	360	160	180	G1/8"	G1/4"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	27	100	37	
65/160	80	65	11	100	360	160	200	G1/8"	G1/4"	125	95	48	65	280	212	110	160	14	14	260	50	24	8	27	100	35	
80/160	100	80	21	125	360	180	225	G1/8"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	140	41	
25/200	40	25	4	80	360	160	180	G1/4"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	37	
32/200E	50	32	3.6	80	360	160	180	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	38	
32/200	50	32	5	80	360	160	180	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	39	
40/200	65	40	11	100	360	160	180	G1/8"	G3/8"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	27	100	43	
50/200	65	50	16	100	360	160	200	G1/4"	G3/8"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	27	100	44	
65/200	80	65	16	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	140	47	
32/250	50	32	5.5	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	57	
32/250E	50	32	5	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	56	
40/250	65	40	9	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	57	
50/250	65	50	12	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	59	

BARE PUMP DIMENSIONS

ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

PUMP MODEL	SUC. ØA	DEL. ØB	MAX SPHERE SIZE	PUMP				PUMP MOUNTING DIMENSIONS												SHAFT END					PUMP WEIGHT (Kg)	
				a	f	h1	h2	j	k	m1	m2	m3	b	n1	n2	n3	n4	s1	s2	w	i	Ød	u	t		x
100/160	125	100	21	125	470	200	280	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	340	102	32	10	35	140	69
				125	470	180	250	G1/4"	G3/8"	125	95	48	65	345	280	110	160	19	14	340	102	32	10	35	140	72
100/200	125	100	20	125	470	200	280	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	340	102	32	10	35	140	81
				140	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	93
150/200	200	150	27	160	470	280	400	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	340	102	32	10	35	140	112
				100	470	200	250	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	340	102	32	10	35	140	79
80/250	100	80	24	125	470	200	280	G1/4"	G3/8"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	86
				140	470	225	280	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	95
125/250	150	125	27	140	470	250	355	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	96
				160	470	280	400	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	340	102	32	10	35	140	120
40/315	65	40	8	125	470	225	250	G1/4"	G1/2"	125	95	48	65	345	280	110	160	14	14	340	102	32	10	35	100	91
				125	470	225	280	G1/4"	G1/2"	125	95	48	65	345	280	110	160	14	14	340	102	32	10	35	100	93
65/315	80	65	15.5	125	470	225	280	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	98
				125	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	105
100/315	125	100	27	140	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	115
				140	530	280	355	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	45	140	152
150/315	200	150	28	160	530	280	400	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	370	110	42	12	45	140	160
				125	530	280	355	G1/4"	G1/2"	200	120	48	100	435	355	110	160	19	14	370	110	42	12	45	140	162
80/400	125	100	22	140	530	280	355	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	45	140	172
				140	530	315	400	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	45	140	183
150/400	200	150	32.5	160	530	315	450	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	370	110	42	12	45	140	208
				160	530	315	450	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	370	110	42	12	45	140	208