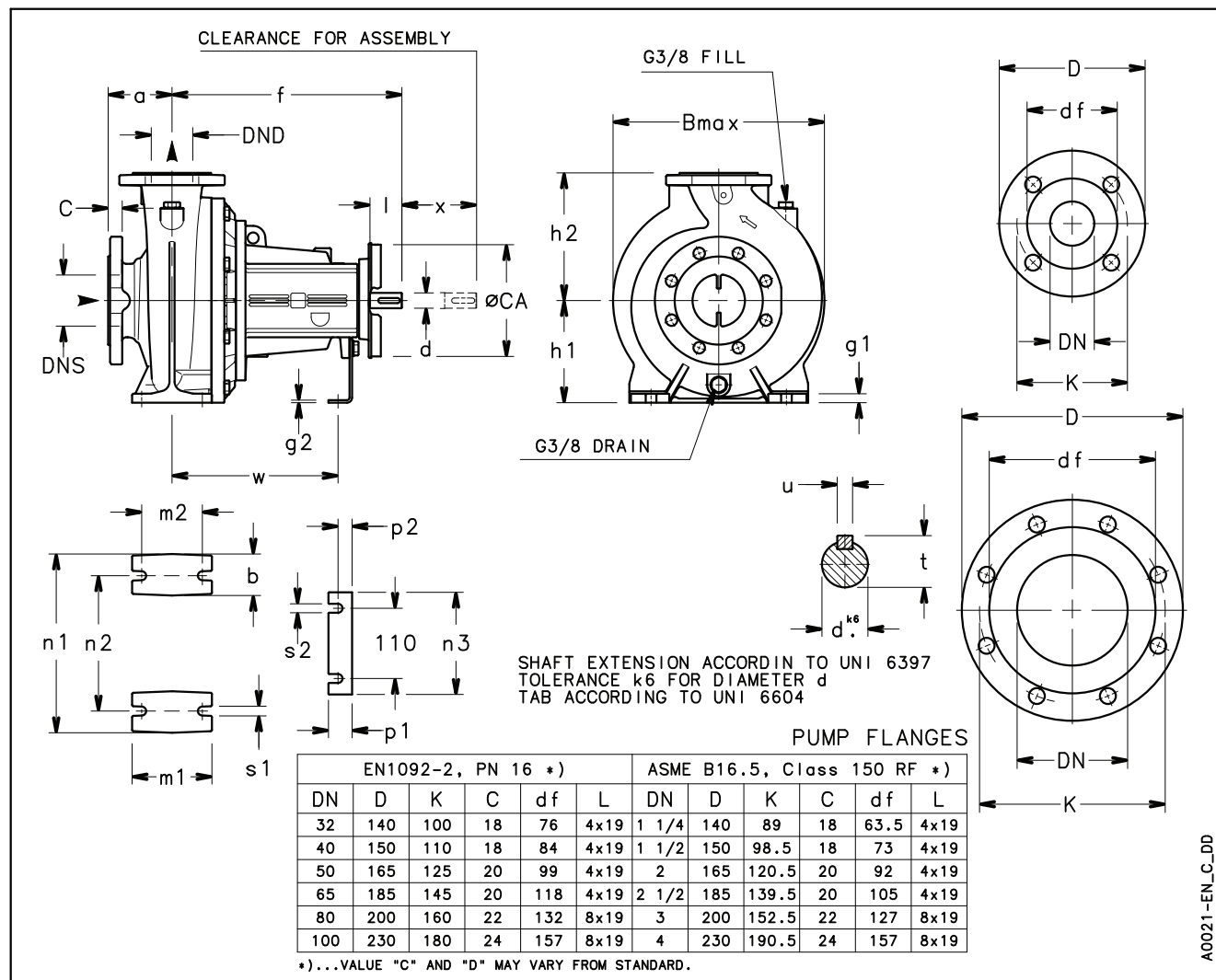


## NSCS 100, 125, 150, 200, 250 SERIES

### DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

PUMP TYPE NSCS..4	TYPE	DIMENSIONS (mm)																											WEIGHT	
		PUMP													MOTOR															
		DNS	DND	a	b	f	g1	h1	h2	n1	n2	m1	m2	P	s1	W	x	A	AA	AB	AD	B	BB	H	HA	s2	B max	H max		L
100-160/22A/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	630	107
100-160/22/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	630	107
100-160/30/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	661	114
100-160/40/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	706	132
100-200/40/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	390	480	706	130
100-200/55/P	A	125	100	125	80	210	26	200	280	360	280	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	390	480	740	134
100-200/75/P	A	125	100	125	80	210	26	200	280	360	280	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	390	480	740	139
100-250/75/P	A	125	100	140	80	210	26	225	280	400	315	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	431	505	755	150
100-250/110/P	B	125	100	140	80	240	26	225	280	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	431	505	874	215
100-315/110/P	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	481	565	874	236
100-315/150/P	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	481	565	874	240
100-315/185/L	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	361	140	279	64	364	253	241	286	180	22	15	481	565	971	241
100-315/220/L	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	361	140	279	64	364	253	241	286	180	22	15	481	565	971	256
100-315/300/L	B	125	100	140	80	246	26	250	315	400	315	160	120	400	19	379	140	318	69	408	285	305	355	200	27	19	481	565	1057	307
100-400/300/L	B	125	100	140	100	254	26	280	355	500	400	200	150	400	23	387	140	318	69	408	285	305	355	200	27	19	569	635	1065	358
100-400/370/L	B	125	100	140	100	284	26	280	355	500	400	200	150	450	23	433	140	356	84	470	309	286	336	225	30	19	569	635	1124	425
100-400/450/L	B	125	100	140	100	284	26	280	355	500	400	200	150	450	23	433	140	356	84	470	309	311	361	225	30	19	569	635	1124	464
125-200/55/P	A	150	125	140	80	210	26	250	315	400	315	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	468	565	755	161
125-200/75/P	A	150	125	140	80	210	26	250	315	400	315	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	468	565	755	166
125-200/110/P	B	150	125	140	80	240	26	250	315	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	468	565	874	230
125-250/75/P	A	150	125	140	80	240	26	250	355	400	315	160	120	350	19	-	140	-	-	-	191	-	-	-	-	-	470	605	755	169
125-250/110/P	B	150	125	140	80	240	26	250	355	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	470	605	874	233
125-250/150/P	B	150	125	140	80	240	26	250	355	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	470	605	874	237
125-315/185/L	B	150	125	140	100	254	26	280	355	500	400	200	150	350	23	375	140	279	64	364	253	241	286	180	22	15	518	635	985	265
125-315/220/L	B	150	125	140	100	254	26	280	355	500	400	200	150	350	23	375	140	279	64	364	253	241	286	180	22	15	518	635	985	280
125-315/300/L	B	150	125	140	100	254	26	280	355	500	400	200	150	400	23	387	140	318	69	408	285	305	355	200	27	19	518	635	1065	328
125-315/370/L	B	150	125	140	100	284	26	280	355	500	400	200	150	450	23	433	140	356	84	470	309	286	336	225	30	19	518	635	1124	395
125-400/370/L	B	150	125	140	100	284	26	315	400	500	400	200	150	450	23	433	140	356	84	470	309	286	336	225	30	19	607	715	1124	443
125-400/450/L	B	150	125	140	100	284	26	315	400	500	400	200	150	450	23	433	140	356	84	470	309	311	361	225	30	19	607	715	1124	482
125-400/550/L	B	150	125	140	100	284	26	315	400	500	400	200	150	550	23	452	140	406	100	516	362	349	421	250	36	24	607	715	1190	600
125-400/750/L	B	150	125	140	100	284	26	315	400	500	400	200	150	550	23	474	140	457	110	606	400	368	440	280	44	24	607	715	1240	677
150-200/110A/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	285
150-200/110/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	285
150-200/150A/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	289
150-200/150/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	289
150-250/150/P	B	200	150	160	100	254	26	280	400	500	400	200	150	350	23	362	140	254	49	304	240	210	304	160	5	15	567	680	908	293
150-250/185/L	B	200	150	160	100	254	26	280	400	500	400	200	150	350	23	375	140	279	64	364	253	241	286	180	22	15	567	680	1005	295
150-250/220/L	B	200	150	160	100	254	26	280	400	500	400	200	150	350	23	375	140	279	64	364	253	241	286	180	22	15	567	680	1005	310
150-250/300/L	B	200	150	160	100	254	26	280	400	500	400	200	150	400	23	387	140	318	69	408	285	305	355	200	27	19	567	680	1085	358
150-315/300/L	B	200	150	160	100	254	26	280	400	550	450	200	150	400	23	387	140	318	69	408	285	305	355	200	27	19	586	680	1085	355
150-315/370/L	B	200	150	160	100	284	26	280	400	550	450	200	150	450	23	433	140	356	84	470	309	286	336	225	30	19	586	680	1144	422
150-315/450/L	B	200	150	160	100	284	26	280	400	550	450	200	150	450	23	433	140	356	84											

**NSC 32, 40, 50, 65, 80 SERIES**  
**DIMENSIONS AND WEIGHTS (BARE SHAFT)**



A0021-EN\_C\_DD

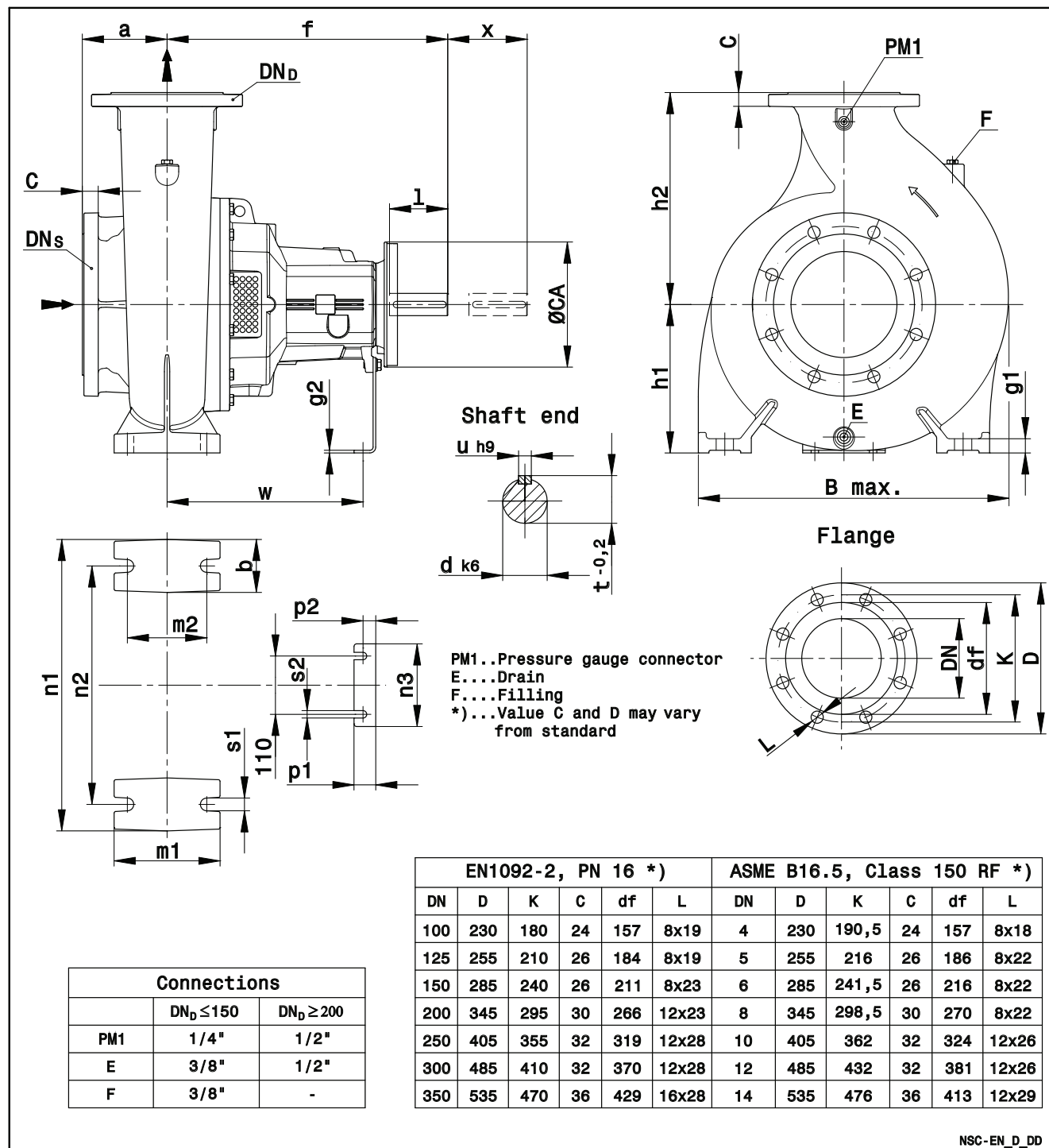
## NSC 32, 40, 50, 65, 80 SERIES DIMENSIONS AND WEIGHTS (BARE SHAFT)

PUMP TYPE NSC (BARE SHAFT)	DIMENSIONS (mm)																												WEIGHT kg	
	PUMP																			SHAFT								B max		x
	DNS	DND	a	b	f	g1	g2	h1	h2	m1	m2	n1	n2	n3	p1	p2	s1	s2	W	ØCA	d	l	t	u						
32-125	50	32	80	50	360	12	4	112	140	100	70	190	140	160	37	22	14	14	260	160	24	50	27	8	239	100	30			
32-160	50	32	80	50	360	12	4	132	160	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	250	100	31			
32-200	50	32	80	50	360	12	4	160	180	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	286	100	38			
32-250	50	32	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	343	100	59			
40-125	65	40	80	50	360	12	4	112	140	100	70	210	160	160	37	22	14	14	260	160	24	50	27	8	240	100	31			
40-160	65	40	80	50	360	12	4	132	160	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	253	100	32			
40-200	65	40	100	50	360	12	4	160	180	100	70	265	212	160	37	22	14	14	260	160	24	50	27	8	294	100	40			
40-250	65	40	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	343	100	60			
50-125	65	50	100	50	360	12	4	132	160	100	70	240	190	160	37	22	14	14	260	160	24	50	27	8	258	100	34			
50-160	65	50	100	50	360	12	4	160	180	100	70	265	212	160	37	22	14	14	260	160	24	50	27	8	290	100	41			
50-200	65	50	100	50	360	12	4	160	200	100	70	265	212	160	37	22	14	14	260	160	24	50	27	8	303	100	42			
50-250	65	50	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	361	100	61			
50-315	65	50	125	65	470	14	5	225	280	125	95	345	280	156	41	24	15	14	340	190	32	80	35	10	414	140	94			
65-125	80	65	100	65	360	16	4	160	180	125	95	280	212	160	37	22	14	14	260	160	24	50	27	8	305	100	45			
65-160	80	65	100	65	360	16	4	160	200	125	95	280	212	160	37	22	14	14	260	175	24	50	27	8	338	100	60			
65-200	80	65	100	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	175	24	50	27	8	350	140	63			
65-250	80	65	100	80	470	21	4	200	250	160	120	360	280	160	37	22	20	14	340	190	32	80	35	10	375	140	81			
65-315	80	65	125	80	470	20	5	225	280	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	437	140	102			
80-160	100	80	125	65	360	16	4	180	225	125	95	320	250	160	37	22	14	14	260	160	24	50	27	8	343	140	66			
80-200	100	80	125	65	470	16	4	180	250	125	95	345	280	160	37	22	14	14	340	190	32	80	35	10	365	140	83			
80-250	100	80	125	80	470	21	4	200	280	160	120	400	315	160	37	22	20	14	340	190	32	80	35	10	405	140	86			
80-315	100	80	125	80	470	26	5	250	315	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	478	140	118			
80-316	100	80	125	80	530	26	5	250	315	160	120	400	315	156	41	24	19	14	370	230	42	110	45	12	478	140	140			
80-400	100	80	125	80	530	26	5	280	355	160	120	435	355	156	41	24	19	14	370	230	42	110	45	12	540	140	154			

NOTE: Pumps with flanges according to EN 1092-2 as standard; available ASME B16.5 version on request.

Nsc32-80bs-en\_b\_ld

# **NSC 100, 125, 150, 200, 250, 300 SERIES** **DIMENSIONS AND WEIGHTS (BARE SHAFT)**



NSC-EN\_D\_DD

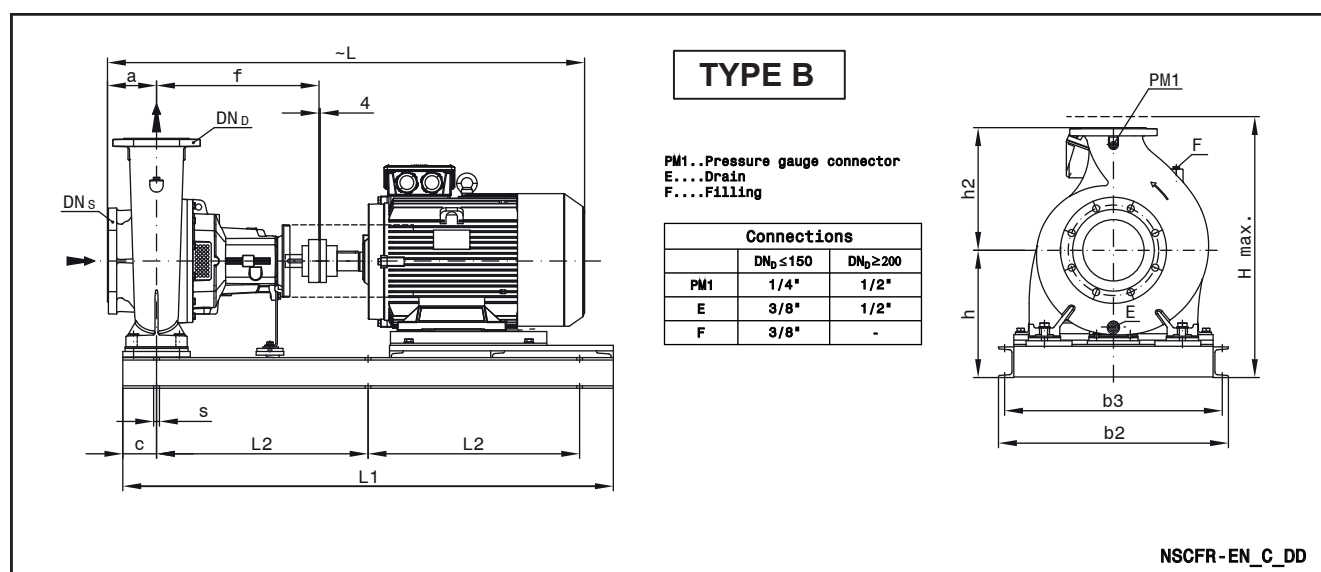
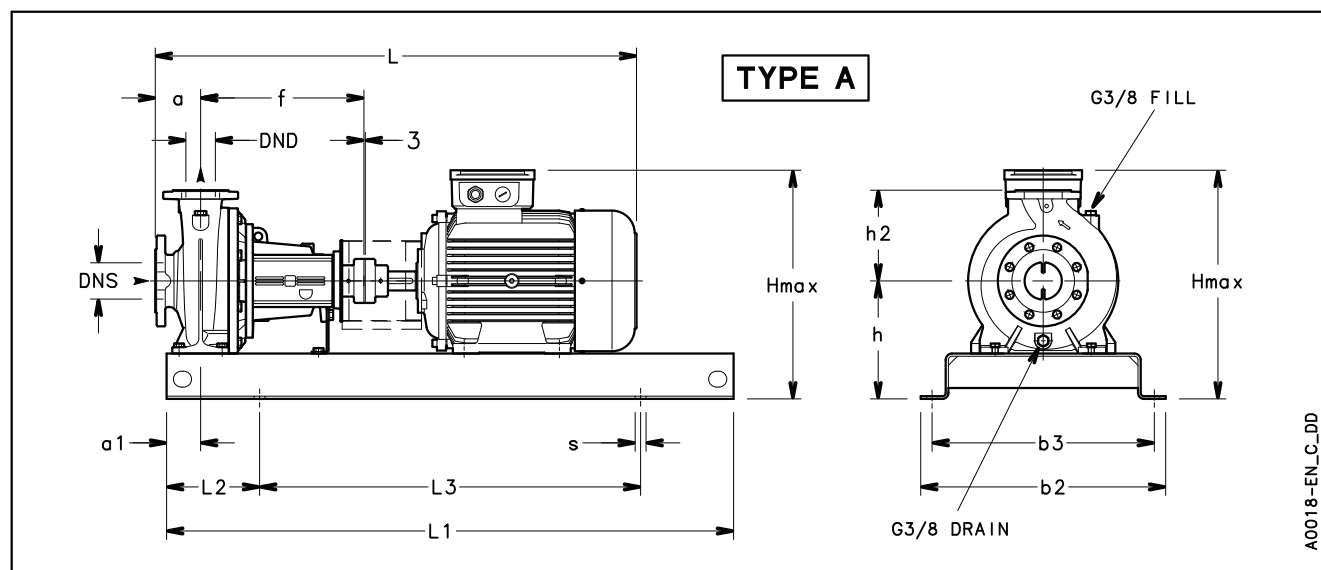
## NSC 100, 125, 150, 200, 250, 300 SERIES DIMENSIONS AND WEIGHTS (BARE SHAFT)

PUMP TYPE NSC (BARE SHAFT)	DIMENSIONS (mm)																											WEIGHT (kg) G
	PUMP																			SHAFT						B max	x	
	DNS	DND	a	b	f	g1	g2	h1	h2	m1	m2	n1	n2	n3	p1	p2	s1	s2	W	ØCA	d	l	t	u				
100-160	125	100	125	80	470	26	5	200	280	160	120	360	280	156	41	24	19	14	340	190	32	80	35	10	388	140	82	
100-200	125	100	125	80	470	26	5	200	280	160	120	360	280	156	41	24	19	14	340	190	32	80	35	10	390	140	90	
100-250	125	100	140	80	470	26	5	225	280	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	431	140	100	
100-315	125	100	140	80	470	26	5	250	315	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	482	140	116	
100-316	125	100	140	80	530	26	5	250	315	160	120	400	315	156	41	24	19	14	370	230	42	110	45	12	482	140	143	
100-400	125	100	140	100	530	26	5	280	355	200	150	500	400	156	41	24	23	14	370	230	42	110	45	12	569	140	178	
125-200	150	125	140	80	470	26	5	250	315	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	468	140	112	
125-250	150	125	140	80	470	26	5	250	355	160	120	400	315	156	41	24	19	14	340	190	32	80	35	10	470	140	112	
125-315	150	125	140	100	530	26	5	280	355	200	150	500	400	156	41	24	23	14	370	230	42	110	45	12	518	140	152	
125-400	150	125	140	100	530	26	5	315	400	200	150	500	400	156	41	24	23	14	370	230	42	110	45	12	607	140	200	
150-200	200	150	160	100	470	26	5	280	400	200	150	550	450	156	41	24	23	14	340	190	32	80	35	10	603	140	166	
150-250	200	150	160	100	530	26	5	280	400	200	150	500	400	156	41	24	23	14	370	230	42	110	45	12	569	140	180	
150-315	200	150	160	100	530	26	5	280	400	200	150	550	450	156	41	24	23	14	370	230	42	110	45	12	586	140	186	
150-400	200	150	160	100	530	26	5	315	450	200	150	550	450	156	41	24	23	14	370	230	42	110	45	12	621	140	228	
150-500	200	150	180	110	770	35	8	400	500	300	250	710	600	170	58	33	28	18	525	310	60	140	64	18	751	250	408	
200-250	250	200	180	100	530	26	5	355	475	200	150	550	450	156	41	24	23	14	370	230	42	110	45	12	655	200	230	
200-315	250	200	180	100	530	26	5	355	450	200	150	550	450	156	41	24	23	14	370	230	42	110	45	12	645	200	234	
200-400	250	200	180	110	770	35	8	400	500	300	250	710	600	170	58	33	28	18	525	310	60	140	64	18	735	250	363	
200-500	250	200	200	110	770	35	8	450	560	300	250	710	600	170	58	33	28	18	525	310	60	140	64	18	761	250	400	
250-315	300	250	250	110	530	35	5	400	500	300	250	710	600	156	41	24	28	14	370	230	42	110	45	12	767	200	316	
250-400	300	250	200	110	770	35	8	400	560	300	250	710	600	170	58	33	28	18	525	310	60	140	64	18	754	250	400	
250-500	300	250	200	110	770	35	8	450	670	300	250	710	600	170	58	33	28	18	525	310	60	140	64	18	776	250	451	
300-350	350	300	250	130	800	41	8	450	600	350	290	800	670	170	58	33	32	18	555	310	60	140	64	18	895	300	544	
300-400	350	300	250	130	800	41	8	450	600	350	290	800	670	170	58	33	32	18	555	310	60	140	64	18	854	300	548	
300-450	350	300	250	130	800	41	8	475	630	350	290	800	670	170	58	33	32	18	555	310	60	140	64	18	873	300	578	

NOTE: Pumps with flanges according to EN 1092-2 as standard; available ASME B16.5 version on request.

Nsc100-300bs-en\_b\_td

# **NSCF 32 SERIES (MOUNTED ON BASE)** **DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES**



PUMP TYPE NSCF..2	TYPE	DIMENSIONS (mm)													H max	s FOR SCREWS	WEIGHT kg	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3				
32-125/11/S	A	50	32	80	60	360	320	360	212	140	746	800	130	540	352	4xØ19 (M16)	65	B68B
32-125/15/P	A	50	32	80	60	390	350	360	212	140	791	900	150	600	352	4xØ19 (M16)	75	B68C
32-125/22/P	A	50	32	80	60	390	350	360	212	140	791	900	150	600	352	4xØ19 (M16)	77	B68C
32-125/30/P	A	50	32	80	60	390	350	360	212	140	822	900	150	600	366	4xØ19 (M16)	84	B80A
32-160/22/P	A	50	32	80	60	390	350	360	232	160	791	900	150	600	392	4xØ19 (M16)	78	B68C
32-160/30/P	A	50	32	80	60	390	350	360	232	160	822	900	150	600	392	4xØ19 (M16)	85	B80A
32-160/40/P	A	50	32	80	60	390	350	360	232	160	825	900	150	600	400	4xØ19 (M16)	90	B80A
32-160/55/P	A	50	32	80	60	450	400	360	232	160	890	1000	170	660	423	4xØ24 (M20)	119	B95A
32-200/30/P	A	50	32	80	60	390	350	360	260	180	822	900	150	600	440	4xØ19 (M16)	92	B80A
32-200/40/P	A	50	32	80	60	390	350	360	260	180	825	900	150	600	440	4xØ19 (M16)	97	B80A
32-200/55/P	A	50	32	80	60	450	400	360	260	180	890	1000	170	660	451	4xØ24 (M20)	126	B95A
32-200/75/P	A	50	32	80	60	450	400	360	260	180	890	1000	170	660	451	4xØ24 (M20)	130	B95A
32-250/75/P	A	50	32	100	75	490	440	360	280	225	910	1120	190	740	505	4xØ24 (M20)	157	B95A
32-250/110A/P	A	50	32	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	187	B95B
32-250/110/P	A	50	32	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	187	B95B
32-250/150/P	A	50	32	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	204	B95B

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf32\_2p50-en\_d\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

## NSCF 40, 50, 65 SERIES (MOUNTED ON BASE) DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

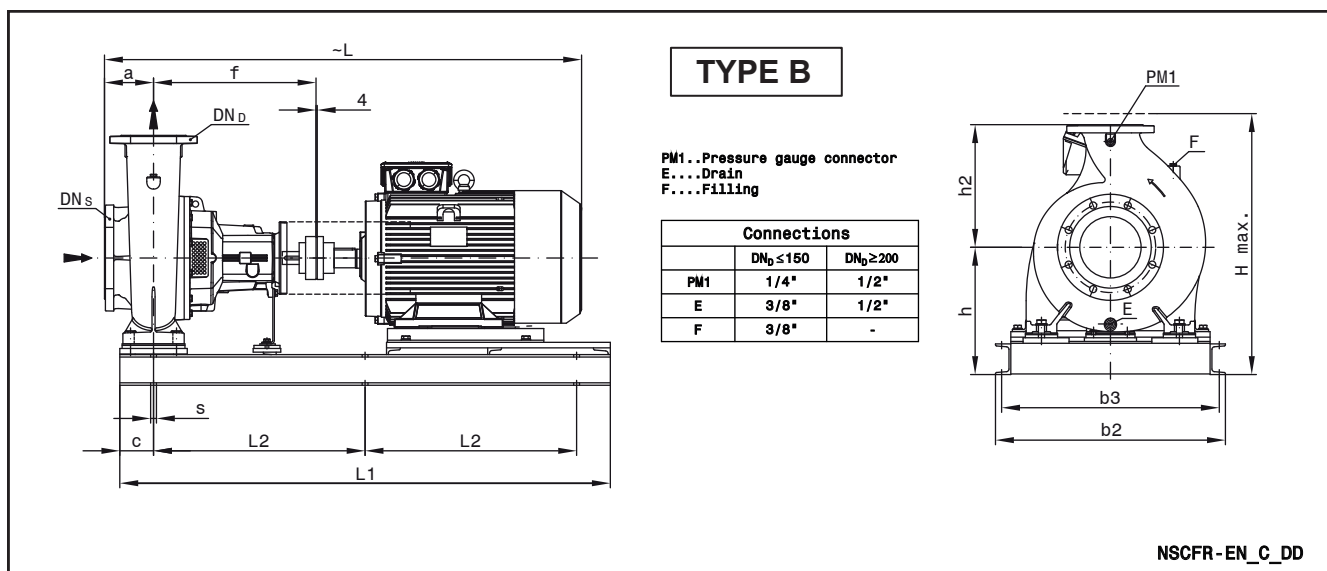
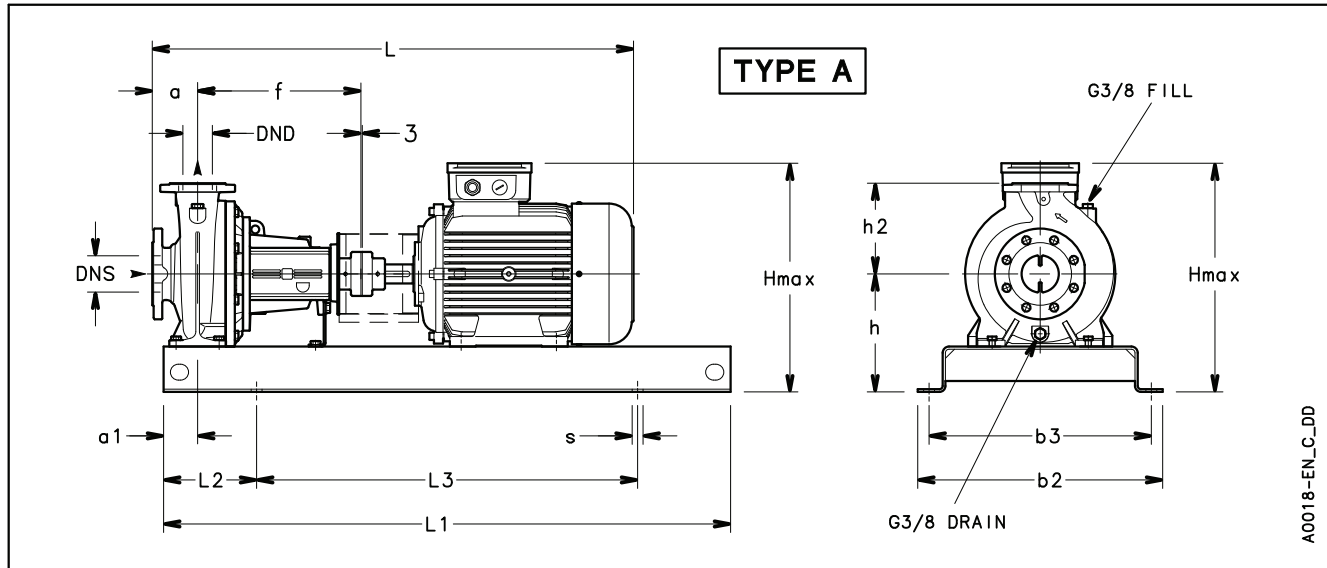
PUMP TYPE NSCF..2	TYPE	DIMENSIONS (mm)															WEIGHT kg	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	s FOR SCREWS		
40-125/15/P	A	65	40	80	60	390	350	360	212	140	791	900	150	600	352	4xØ19 (M16)	76	B68C
40-125/22/P	A	65	40	80	60	390	350	360	212	140	791	900	150	600	352	4xØ19 (M16)	78	B68C
40-125/30/P	A	65	40	80	60	390	350	360	212	140	822	900	150	600	366	4xØ19 (M16)	85	B80A
40-125/40/P	A	65	40	80	60	390	350	360	212	140	825	900	150	600	380	4xØ19 (M16)	90	B80A
40-160/30/P	A	65	40	80	60	390	350	360	232	160	822	900	150	600	392	4xØ19 (M16)	86	B80A
40-160/40/P	A	65	40	80	60	390	350	360	232	160	825	900	150	600	400	4xØ19 (M16)	91	B80A
40-160/55/P	A	65	40	80	60	450	400	360	232	160	890	1000	170	660	423	4xØ24 (M20)	120	B95A
40-160/75/P	A	65	40	80	60	450	400	360	232	160	890	1000	170	660	423	4xØ24 (M20)	124	B95A
40-200/55/P	A	65	40	100	60	450	400	360	260	180	910	1000	170	660	451	4xØ24 (M20)	128	B95A
40-200/75/P	A	65	40	100	60	450	400	360	260	180	910	1000	170	660	451	4xØ24 (M20)	132	B95A
40-200/110A/P	A	65	40	100	60	490	440	360	260	180	1067	1120	190	740	500	4xØ24 (M20)	161	B95B
40-200/110/P	A	65	40	100	60	490	440	360	260	180	1067	1120	190	740	500	4xØ24 (M20)	161	B95B
40-250/110A/P	A	65	40	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	188	B95B
40-250/110/P	A	65	40	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	188	B95B
40-250/150/P	A	65	40	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	205	B95B
40-250/185/P	A	65	40	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	218	B95B
40-250/220/L	A	65	40	100	75	540	490	360	280	225	1164	1250	205	840	533	4xØ24 (M20)	241	B110A
50-125/30/P	A	65	50	100	60	390	350	360	232	160	842	900	150	600	392	4xØ19 (M16)	88	B80A
50-125/40/P	A	65	50	100	60	390	350	360	232	160	845	900	150	600	400	4xØ19 (M16)	93	B80A
50-125/55/P	A	65	50	100	60	450	400	360	232	160	910	1000	170	660	423	4xØ24 (M20)	122	B95A
50-125/75/P	A	65	50	100	60	450	400	360	232	160	910	1000	170	660	423	4xØ24 (M20)	126	B95A
50-160/55/P	A	65	50	100	60	450	400	360	260	180	910	1000	170	660	451	4xØ24 (M20)	129	B95A
50-160/75/P	A	65	50	100	60	450	400	360	260	180	910	1000	170	660	451	4xØ24 (M20)	133	B95A
50-160/110A/P	A	65	50	100	60	490	440	360	260	180	1067	1120	190	740	500	4xØ24 (M20)	162	B95B
50-160/110/P	A	65	50	100	60	490	440	360	260	180	1067	1120	190	740	500	4xØ24 (M20)	162	B95B
50-200/110A/P	A	65	50	100	60	490	440	360	260	200	1067	1120	190	740	500	4xØ24 (M20)	163	B95B
50-200/110/P	A	65	50	100	60	490	440	360	260	200	1067	1120	190	740	500	4xØ24 (M20)	163	B95B
50-200/150/P	A	65	50	100	60	490	440	360	260	200	1067	1120	190	740	500	4xØ24 (M20)	180	B95B
50-200/185/P	A	65	50	100	60	490	440	360	260	200	1067	1120	190	740	500	4xØ24 (M20)	193	B95B
50-250/150/P	A	65	50	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	206	B95B
50-250/185/P	A	65	50	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	219	B95B
50-250/220/L	A	65	50	100	75	540	490	360	280	225	1164	1250	205	840	533	4xØ24 (M20)	242	B110A
50-250/300/L	A	65	50	100	75	610	550	360	310	225	1244	1400	230	940	595	4xØ28 (M24)	321	B125D
50-315/370/L	B	65	50	125	110	560	520	470	355	280	1410	1350	110	1130	664	6xØ19 (M16)	462	B125B
50-315/450/L	B	65	50	125	110	560	520	470	355	280	1410	1350	110	1130	664	6xØ19 (M16)	466	B125B
50-315/550/L	B	65	50	125	110	750	710	470	405	280	1506	1550	110	1330	767	6xØ19 (M16)	679	B140A
50-315/750/L	B	65	50	125	110	750	710	470	405	280	1621	1550	110	1330	804	6xØ19 (M16)	784	B160A
65-125/40/P	A	80	65	100	75	390	350	360	260	180	845	900	150	600	440	4xØ19 (M16)	104	B80A
65-125/55/P	A	80	65	100	75	450	400	360	260	180	910	1000	170	660	451	4xØ24 (M20)	133	B95A
65-125/75/P	A	80	65	100	75	450	400	360	260	180	910	1000	170	660	451	4xØ24 (M20)	137	B95A
65-125/110A/P	A	80	65	100	75	490	440	360	260	180	1067	1120	190	740	500	4xØ24 (M20)	167	B95B
65-125/110/P	A	80	65	100	75	490	440	360	260	180	1067	1120	190	740	500	4xØ24 (M20)	167	B95B
65-160/75/P	A	80	65	100	75	450	400	360	260	200	910	1000	170	660	460	4xØ24 (M20)	158	B95A
65-160/110A/P	A	80	65	100	75	540	490	360	260	200	1067	1250	205	840	500	4xØ24 (M20)	188	B95B
65-160/110/P	A	80	65	100	75	540	490	360	260	200	1067	1250	205	840	500	4xØ24 (M20)	188	B95B
65-160/150/P	A	80	65	100	75	540	490	360	260	200	1067	1250	205	840	500	4xØ24 (M20)	205	B95B
65-160/185/P	A	80	65	100	75	540	490	360	260	200	1067	1250	205	840	500	4xØ24 (M20)	218	B95B
65-200/110/P	A	80	65	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	191	B95B
65-200/150/P	A	80	65	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	208	B95B
65-200/185/P	A	80	65	100	75	540	490	360	280	225	1067	1250	205	840	520	4xØ24 (M20)	221	B95B
65-200/220/L	A	80	65	100	75	540	490	360	280	225	1164	1250	205	840	533	4xØ24 (M20)	244	B110A
65-200/300/L	A	80	65	100	75	610	550	360	310	225	1244	1400	230	940	595	4xØ28 (M24)	323	B125D
65-250/220/L	A	80	65	100	90	540	490	470	310	250	1274	1250	205	840	563	4xØ24 (M20)	262	B110B
65-250/300/L	A	80	65	100	90	610	550	470	310	250	1354	1400	230	940	595	4xØ28 (M24)	341	B125B
65-250/370/L	A	80	65	100	90	610	550	470	310	250	1384	1400	230	940	619	4xØ28 (M24)	409	B125B
65-250/450/L	A	80	65	100	90	610	550	470	365	250	1384	1400	230	940	674	4xØ28 (M24)	419	B125B
65-250/550/L	A	80	65	100	90	660	600	470	390	250	1480	1600	270	1060	752	4xØ28 (M24)	615	B140A
65-315/550/L	B	80	65	125	110	750	710	470	405	280	1506	1550	110	1330	767	6xØ19 (M16)	686	B140A
65-315/750/L	B	80	65	125	110	750	710	470	390	280	1611	1550	110	1330	789	6xØ19 (M16)	782	B160A
65-315/900/L	B	80	65	125	110	750	710	470	390	280	1611	1550	110	1330	789	6xØ19 (M16)	855	B160A

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf40-65-2p50-en\_f\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

**NSCF 80, 100, 125 SERIES (MOUNTED ON BASE)  
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES**



## NSCF 80, 100, 125 SERIES (MOUNTED ON BASE) DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

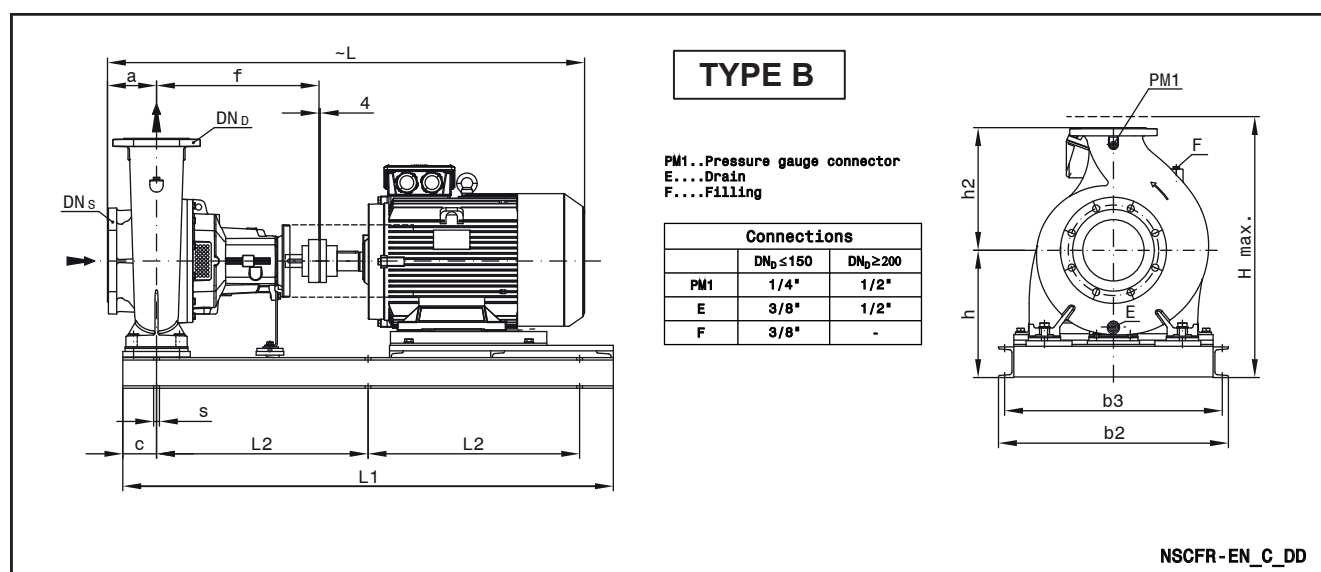
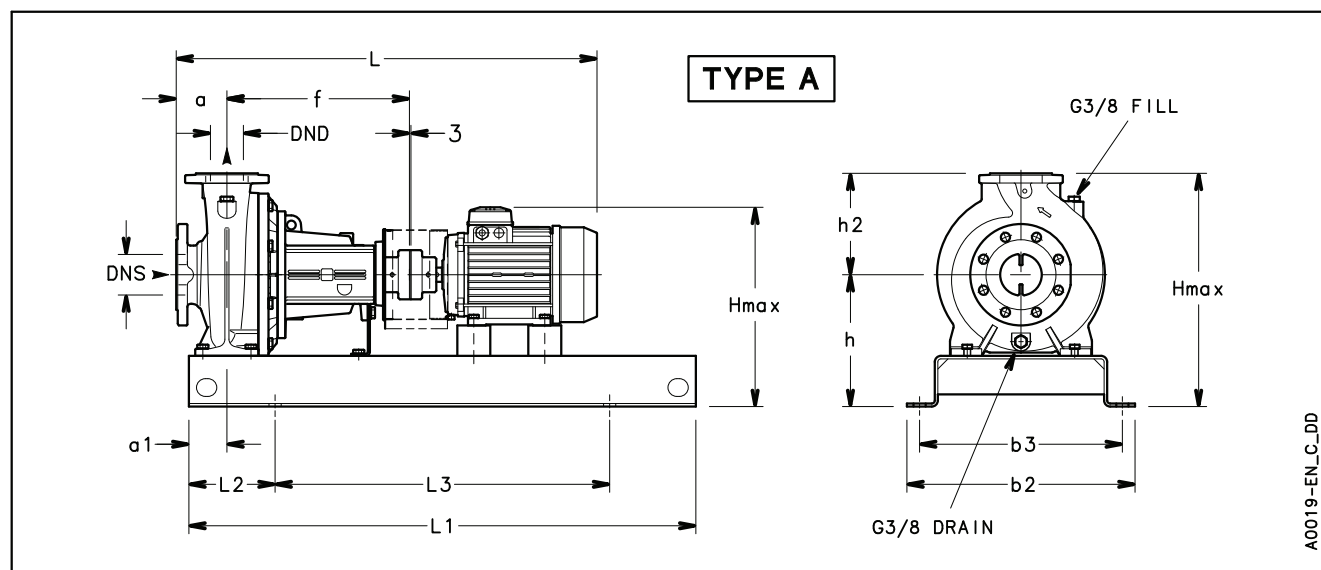
PUMP TYPE NSCF...2	TYPE	DIMENSIONS (mm)															WEIGHT (kg) G	COUPLING
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H	s		
80-160/110/P	A	100	80	125	75	540	490	360	280	225	1092	1250	205	840	520	4xØ24 (M20)	194	B95B
80-160/150/P	A	100	80	125	75	540	490	360	280	225	1092	1250	205	840	520	4xØ24 (M20)	211	B95B
80-160/185/P	A	100	80	125	75	540	490	360	280	225	1092	1250	205	840	520	4xØ24 (M20)	195	B95B
80-160/220/L	A	100	80	125	75	540	490	360	280	225	1186	1250	205	840	533	4xØ24 (M20)	255	B110A
80-200/220/L	A	100	80	125	75	540	490	470	280	250	1296	1250	205	840	533	4xØ24 (M20)	272	B110B
80-200/300/L	A	100	80	125	75	610	550	470	310	250	1376	1400	230	940	595	4xØ28 (M24)	355	B125B
80-200/370/L	A	100	80	125	75	610	550	470	310	250	1376	1400	230	940	595	4xØ28 (M24)	391	B125B
80-200/450/L	A	100	80	125	75	610	550	470	365	250	1405	1400	230	940	674	4xØ28 (M24)	456	B125B
80-250/370/L	A	100	80	125	90	610	550	470	310	280	1376	1400	230	940	595	4xØ28 (M24)	394	B125B
80-250/450/L	A	100	80	125	90	610	550	470	365	280	1405	1400	230	940	674	4xØ28 (M24)	459	B125B
80-250/550/L	A	100	80	125	90	660	600	470	390	280	1501	1600	270	1060	752	4xØ28 (M24)	653	B140A
80-250/750/L	A	100	80	125	90	730	670	470	420	280	1551	1800	300	1200	820	4xØ28 (M24)	819	B160A
80-316/900/L	B	100	80	125	110	750	710	530	440	315	1666	1600	110	1380	840	6xØ19 (M16)	985	B160B
80-316/1100/L	B	100	80	125	110	860	810	530	505	315	1666	1850	110	1630	905	6xØ26 (M20)	1231	B160B
80-316/1320/L	B	100	80	125	110	860	810	530	505	315	1780	1850	110	1630	999	6xØ26 (M20)	1380	B160B
80-316/1600/L	B	100	80	125	110	860	810	530	505	315	1780	1850	110	1630	999	6xØ26 (M20)	1440	B160B
100-160/150/P	B	125	100	125	110	670	630	470	365	280	1203	1330	110	1110	645	6xØ19 (M16)	304	B95E
100-160/185/P	B	125	100	125	110	670	630	470	365	280	1203	1330	110	1110	645	6xØ19 (M16)	283	B95E
100-160/220/L	B	125	100	125	110	670	630	470	385	280	1296	1330	110	1110	665	6xØ19 (M16)	349	B110B
100-160/300/L	B	125	100	125	110	560	520	470	330	280	1376	1350	110	1130	615	6xØ19 (M16)	387	B125B
100-200/300/L	B	125	100	125	110	560	520	470	330	280	1376	1350	110	1130	615	6xØ19 (M16)	395	B125B
100-200/370/L	B	125	100	125	110	560	520	470	330	280	1376	1350	110	1130	615	6xØ19 (M16)	431	B125B
100-200/450/L	B	125	100	125	110	560	520	470	355	280	1405	1350	110	1130	664	6xØ19 (M16)	504	B125B
100-200/550/L	B	125	100	125	110	750	710	470	405	280	1501	1550	110	1330	767	6xØ19 (M16)	714	B140A
100-250/450/L	B	125	100	140	110	560	520	470	355	280	1420	1350	110	1130	664	6xØ19 (M16)	506	B125B
100-250/550/L	B	125	100	140	110	750	710	470	405	280	1516	1550	110	1330	767	6xØ19 (M16)	717	B140A
100-250/750/L	B	125	100	140	110	750	710	470	390	280	1566	1550	110	1330	790	6xØ19 (M16)	833	B160A
100-250/900/L	B	125	100	140	110	750	710	470	390	280	1621	1550	110	1330	790	6xØ19 (M16)	915	B160A
100-316/1100/L	B	125	100	140	110	860	810	530	505	315	1681	1850	110	1630	905	6xØ26 (M20)	1234	B160B
100-316/1320/L	B	125	100	140	110	860	810	530	505	315	1795	1850	110	1630	999	6xØ26 (M20)	1383	B160B
100-316/1600/L	B	125	100	140	110	860	810	530	505	315	1795	1850	110	1630	999	6xØ26 (M20)	1443	B160B
125-200/450/L	B	150	125	140	110	560	520	470	355	315	1420	1350	110	1130	670	6xØ19 (M16)	511	B125B
125-200/550/L	B	150	125	140	110	750	710	470	405	315	1516	1550	110	1330	767	6xØ19 (M16)	722	B140A
125-200/750/L	B	150	125	140	110	750	710	470	405	315	1566	1550	110	1330	805	6xØ19 (M16)	847	B160A
125-200/900/L	B	150	125	140	110	750	710	470	405	315	1621	1550	110	1330	805	6xØ19 (M16)	929	B160A
125-315/1100/L	B	150	125	140	110	860	810	530	505	355	1681	1850	110	1630	905	6xØ26 (M20)	1235	B160B
125-315/1320/L	B	150	125	140	110	860	810	530	505	355	1795	1850	110	1630	999	6xØ26 (M20)	1384	B160B
125-315/1600/L	B	150	125	140	110	860	810	530	505	355	1795	1850	110	1630	999	6xØ26 (M20)	1444	B160B
125-315/2000/L	B	150	125	140	110	860	810	530	505	355	1795	1850	110	1630	999	6xØ26 (M20)	1584	B180A

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf80-125-2p50-en\_d\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

# **NSCF 32 SERIES (MOUNTED ON BASE)** **DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES**



PUMP TYPE NSCF..4	TYPE	DIMENSIONS (mm)															WEIGHT kg	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	s FOR SCREWS		
32-200/07/X	A	50	32	80	60	360	320	360	260	180	714	800	130	540	440	4xØ19 (M16)	76	B68B
32-200/11/P	A	50	32	80	60	390	350	360	260	180	791	900	150	600	440	4xØ19 (M16)	85	B68C
32-250/11A/P	A	50	32	100	75	450	400	360	280	225	811	1000	170	660	505	4xØ24 (M20)	112	B68C
32-250/11/P	A	50	32	100	75	450	400	360	280	225	811	1000	170	660	505	4xØ24 (M20)	112	B68C
32-250/15/P	A	50	32	100	75	450	400	360	280	225	811	1000	170	660	505	4xØ24 (M20)	117	B68C
32-250/22/P	A	50	32	100	75	450	400	360	280	225	888	1000	170	660	505	4xØ24 (M20)	127	B80A

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf32\_4p50-en\_d\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

## NSCF 40, 50, 65 SERIES (MOUNTED ON BASE) DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

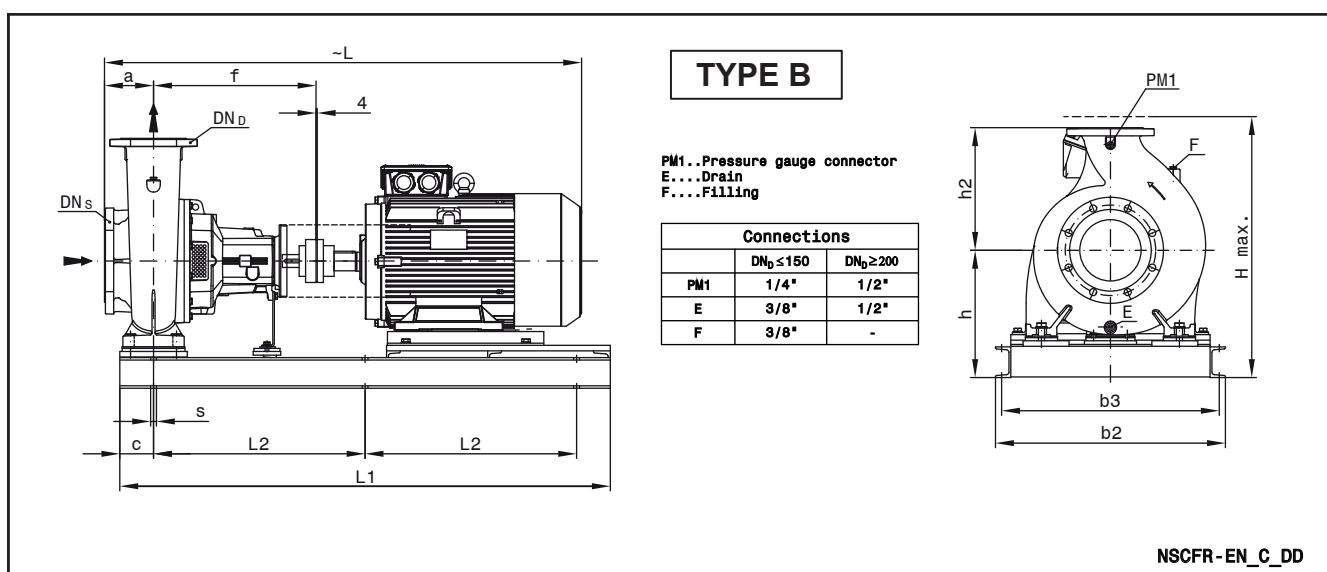
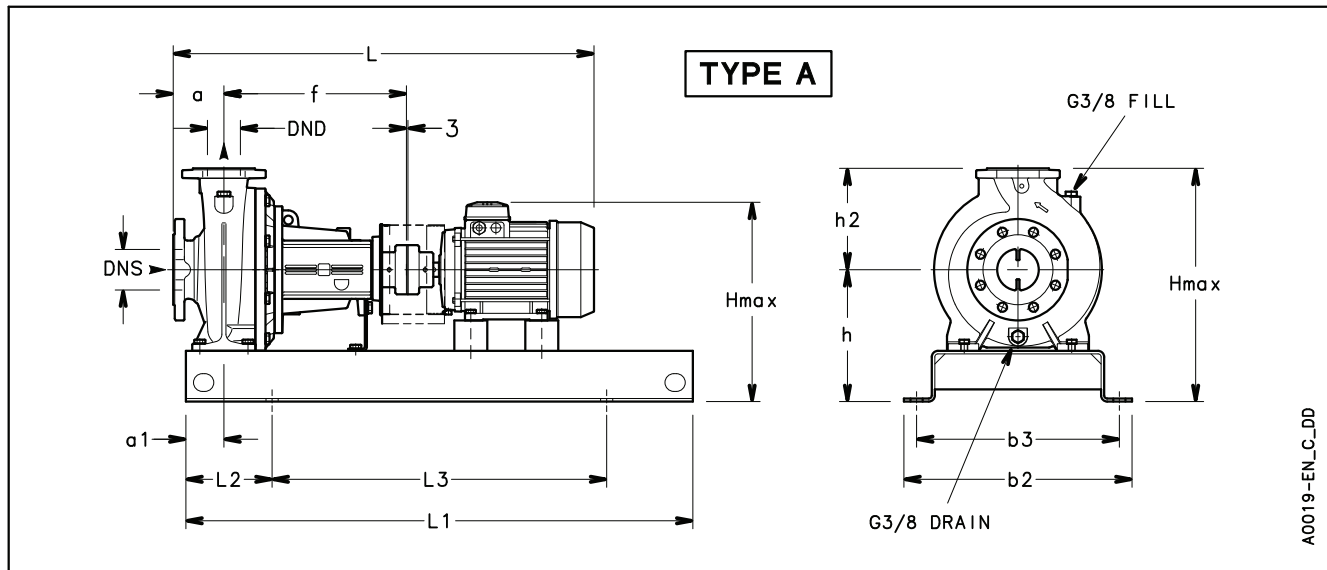
PUMP TYPE NSCF..4	TYPE	DIMENSIONS (mm)															WEIGHT kg	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	H max	s FOR SCREWS		
40-160/07/X	A	65	40	80	60	360	320	360	232	160	714	800	130	540	392	4xØ19 (M16)	70	B68B
40-160/11/P	A	65	40	80	60	390	350	360	232	160	791	900	150	600	392	4xØ19 (M16)	79	B68C
40-200/07/X	A	65	40	100	60	390	350	360	260	180	734	900	150	600	440	4xØ19 (M16)	81	B68B
40-200/11/P	A	65	40	100	60	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	87	B68C
40-200/15A/P	A	65	40	100	60	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	92	B68C
40-200/15/P	A	65	40	100	60	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	92	B68C
40-250/11/P	A	65	40	100	75	450	400	360	280	225	811	1000	170	660	505	4xØ24 (M20)	113	B68C
40-250/15/P	A	65	40	100	75	450	400	360	280	225	811	1000	170	660	505	4xØ24 (M20)	118	B68C
40-250/22A/P	A	65	40	100	75	450	400	360	280	225	888	1000	170	660	505	4xØ24 (M20)	128	B80A
40-250/22/P	A	65	40	100	75	450	400	360	280	225	888	1000	170	660	505	4xØ24 (M20)	128	B80A
40-250/30/P	A	65	40	100	75	450	400	360	280	225	906	1000	170	660	505	4xØ24 (M20)	133	B80A
50-125/07/X	A	65	50	100	60	360	320	360	232	160	734	800	130	540	392	4xØ19 (M16)	72	B68B
50-125/11/P	A	65	50	100	60	390	350	360	232	160	811	900	150	600	392	4xØ19 (M16)	81	B68C
50-160/07/X	A	65	50	100	60	390	350	360	260	180	734	900	150	600	440	4xØ19 (M16)	82	B68B
50-160/11A/P	A	65	50	100	60	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	88	B68C
50-160/11/P	A	65	50	100	60	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	88	B68C
50-160/15/P	A	65	50	100	60	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	93	B68C
50-200/11/P	A	65	50	100	60	390	350	360	260	200	811	900	150	600	460	4xØ19 (M16)	89	B68C
50-200/15/P	A	65	50	100	60	390	350	360	260	200	811	900	150	600	460	4xØ19 (M16)	94	B68C
50-200/22A/P	A	65	50	100	60	390	350	360	260	200	888	900	150	600	460	4xØ19 (M16)	104	B80A
50-200/22/P	A	65	50	100	60	390	350	360	260	200	888	900	150	600	460	4xØ19 (M16)	104	B80A
50-250/22A/P	A	65	50	100	75	450	400	360	280	225	888	1000	170	660	505	4xØ24 (M20)	129	B80A
50-250/22/P	A	65	50	100	75	450	400	360	280	225	888	1000	170	660	505	4xØ24 (M20)	129	B80A
50-250/30/P	A	65	50	100	75	450	400	360	280	225	906	1000	170	660	505	4xØ24 (M20)	134	B80A
50-250/40/P	A	65	50	100	75	450	400	360	280	225	906	1000	170	660	505	4xØ24 (M20)	153	B80A
50-315/40/P	B	65	50	125	110	670	630	470	365	280	1041	1100	110	880	645	6xØ19 (M16)	246,6	B95C
50-315/55/P	B	65	50	125	110	670	630	470	385	280	1084	1100	110	880	665	6xØ19 (M16)	258	B95D
50-315/75/P	B	65	50	125	110	670	630	470	385	280	1084	1100	110	880	665	6xØ19 (M16)	258	B95D
50-315/110/P	B	65	50	125	110	670	630	470	365	280	1198	1330	110	1110	645	6xØ19 (M16)	290,3	B95E
65-125/07/X	A	80	65	100	75	390	350	360	260	180	734	900	150	600	440	4xØ19 (M16)	86	B68B
65-125/11/P	A	80	65	100	75	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	92	B68C
65-125/15/P	A	80	65	100	75	390	350	360	260	180	811	900	150	600	440	4xØ19 (M16)	97	B68C
65-160/11A/P	A	80	65	100	75	450	400	360	260	200	811	1000	170	660	460	4xØ24 (M20)	113	B68C
65-160/11/P	A	80	65	100	75	450	400	360	260	200	811	1000	170	660	460	4xØ24 (M20)	113	B68C
65-160/15/P	A	80	65	100	75	450	400	360	260	200	811	1000	170	660	460	4xØ24 (M20)	118	B68C
65-160/22A/P	A	80	65	100	75	450	400	360	260	200	888	1000	170	660	460	4xØ24 (M20)	128	B80A
65-160/22/P	A	80	65	100	75	450	400	360	260	200	888	1000	170	660	460	4xØ24 (M20)	128	B80A
65-200/15/P	A	80	65	100	75	450	400	360	280	225	811	1000	170	660	505	4xØ24 (M20)	121	B68C
65-200/22A/P	A	80	65	100	75	490	440	360	280	225	888	1120	190	740	505	4xØ24 (M20)	137	B80A
65-200/22/P	A	80	65	100	75	490	440	360	280	225	888	1120	190	740	505	4xØ24 (M20)	137	B80A
65-200/30/P	A	80	65	100	75	490	440	360	280	225	906	1120	190	740	505	4xØ24 (M20)	142	B80A
65-200/40/P	A	80	65	100	75	490	440	360	280	225	906	1120	190	740	505	4xØ24 (M20)	161	B80A
65-250/30/P	A	80	65	100	90	490	440	470	310	250	1016	1120	190	740	560	4xØ24 (M20)	161	B95C
65-250/40/P	A	80	65	100	90	490	440	470	310	250	1016	1120	190	740	560	4xØ24 (M20)	180	B95C
65-250/55A/P	A	80	65	100	90	490	440	470	310	250	1058	1120	190	740	560	4xØ24 (M20)	189	B95D
65-250/55/P	A	80	65	100	90	490	440	470	310	250	1058	1120	190	740	560	4xØ24 (M20)	189	B95D
65-250/75/P	A	80	65	100	90	490	440	470	310	250	1058	1120	190	740	560	4xØ24 (M20)	193	B95D
65-315/55/P	B	80	65	125	110	670	630	470	385	280	1084	1100	110	880	665	6xØ19 (M16)	265,3	B95D
65-315/75/P	B	80	65	125	110	670	630	470	385	280	1084	1100	110	880	665	6xØ19 (M16)	265,3	B95D
65-315/110/P	B	80	65	125	110	670	630	470	365	280	1203	1330	110	1110	645	6xØ19 (M16)	297,5	B95E
65-315/150/P	B	80	65	125	110	670	630	470	365	280	1203	1330	110	1110	645	6xØ19 (M16)	342,4	B110E

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf40-65\_4p50-en\_e\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

**NSCF 80, 100, 125 SERIES (MOUNTED ON BASE)  
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES**



## NSCF 80, 100, 125 SERIES (MOUNTED ON BASE) DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

PUMP TYPE NSCF..4	TYPE	DIMENSIONS (mm)															WEIGHT (kg)	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L3	L2	H max	s FOR SCREWS		
80-160/15/P	A	100	80	125	75	450	400	360	280	225	836	1000	660	170	505	4xØ24 (M20)	124	B68C
80-160/22A/P	A	100	80	125	75	490	440	360	280	225	913	1120	740	190	505	4xØ24 (M20)	140	B80A
80-160/22/P	A	100	80	125	75	490	440	360	280	225	913	1120	740	190	505	4xØ24 (M20)	140	B80A
80-160/30/P	A	100	80	125	75	490	440	360	280	225	931	1120	740	190	505	4xØ24 (M20)	145	B80A
80-200/30/P	A	100	80	125	75	490	440	470	280	250	1041	1120	740	190	530	4xØ24 (M20)	162	B95C
80-200/40/P	A	100	80	125	75	490	440	470	280	250	1041	1120	740	190	530	4xØ24 (M20)	182	B95C
80-200/55A/P	A	100	80	125	75	490	440	470	280	250	1083	1120	740	190	530	4xØ24 (M20)	191	B95D
80-200/55/P	A	100	80	125	75	490	440	470	280	250	1083	1120	740	190	530	4xØ24 (M20)	191	B95D
80-250/55A/P	A	100	80	125	90	540	490	470	310	280	1083	1250	840	205	590	4xØ24 (M20)	200	B95D
80-250/55/P	A	100	80	125	90	540	490	470	310	280	1083	1250	840	205	590	4xØ24 (M20)	200	B95D
80-250/75/P	A	100	80	125	90	540	490	470	310	280	1083	1250	840	205	590	4xØ24 (M20)	204	B95D
80-250/110/P	A	100	80	125	90	540	490	470	310	280	1202	1250	840	205	590	4xØ24 (M20)	259	B95E
80-315/110A/P	B	100	80	125	110	670	630	470	365	315	1203	1330	1110	110	680	6xØ19 (M16)	306	B95E
80-315/110/P	B	100	80	125	110	670	630	470	365	315	1203	1330	1110	110	680	6xØ19 (M16)	306	B95E
80-315/150/P	B	100	80	125	110	670	630	470	365	315	1203	1330	1110	110	680	6xØ19 (M16)	351	B110E
80-315/185/L	B	100	80	125	110	670	630	470	385	315	1300	1330	1110	110	700	6xØ19 (M16)	410	B110B
80-315/220/L	B	100	80	125	110	670	630	470	385	315	1300	1330	1110	110	638	6xØ19 (M16)	383	B110B
80-400/185/L	B	100	80	125	110	670	630	530	400	355	1360	1430	1210	110	755	6xØ19 (M16)	443	B110D
80-400/220/L	B	100	80	125	110	670	630	530	400	355	1360	1430	1210	110	653	6xØ19 (M16)	416	B110D
80-400/300/L	B	100	80	125	110	670	630	530	420	355	1440	1430	1210	110	705	6xØ19 (M16)	482	B125C
80-400/370/L	B	100	80	125	110	750	710	530	415	355	1500	1600	1380	110	724	6xØ19 (M16)	571	B140B
100-160/22A/P	B	125	100	125	110	670	630	470	355	280	1024	1100	880	110	635	6xØ19 (M16)	217	B95C
100-160/22/P	B	125	100	125	110	670	630	470	355	280	1024	1100	880	110	635	6xØ19 (M16)	217	B95C
100-160/30/P	B	125	100	125	110	670	630	470	355	280	1041	1100	880	110	635	6xØ19 (M16)	220	B95C
100-160/40/P	B	125	100	125	110	670	630	470	365	280	1041	1100	880	110	645	6xØ19 (M16)	241	B95C
100-200/40/P	B	125	100	125	110	670	630	470	365	280	1041	1100	880	110	645	6xØ19 (M16)	249	B95C
100-200/55/P	B	125	100	125	110	670	630	470	385	280	1084	1100	880	110	665	6xØ19 (M16)	261	B95D
100-200/75/P	B	125	100	125	110	670	630	470	385	280	1084	1100	880	110	665	6xØ19 (M16)	261	B95D
100-250/55/P	B	125	100	140	110	670	630	470	385	280	1099	1100	880	110	665	6xØ19 (M16)	263	B95D
100-250/75/P	B	125	100	140	110	670	630	470	385	280	1099	1100	880	110	665	6xØ19 (M16)	263	B95D
100-250/110/P	B	125	100	140	110	670	630	470	365	280	1218	1330	1110	110	645	6xØ19 (M16)	296	B95E
100-315/110/P	B	125	100	140	110	670	630	470	365	315	1218	1330	1110	110	680	6xØ19 (M16)	304	B95E
100-315/150/P	B	125	100	140	110	670	630	470	365	315	1218	1330	1110	110	680	6xØ19 (M16)	349	B110E
100-315/185/L	B	125	100	140	110	670	630	470	385	315	1315	1330	1110	110	700	6xØ19 (M16)	408	B110B
100-315/220/L	B	125	100	140	110	670	630	470	385	315	1315	1330	1110	110	638	6xØ19 (M16)	381	B110B
100-315/300/L	B	125	100	140	110	560	520	470	355	315	1395	1350	1130	110	640	6xØ19 (M16)	422	B125B
100-400/300/L	B	125	100	140	110	670	630	530	420	355	1455	1430	1210	110	705	6xØ19 (M16)	511	B125C
100-400/370/L	B	125	100	140	110	750	710	530	415	355	1515	1600	1380	110	724	6xØ19 (M16)	597	B140B
100-400/450/L	B	125	100	140	110	750	710	530	415	355	1515	1600	1380	110	724	6xØ19 (M16)	628	B140B
125-200/55/P	B	150	125	140	110	670	630	470	385	315	1099	1100	880	110	700	6xØ19 (M16)	268	B95D
125-200/75/P	B	150	125	140	110	670	630	470	385	315	1099	1100	880	110	700	6xØ19 (M16)	268	B95D
125-200/110/P	B	150	125	140	110	670	630	470	365	315	1218	1330	1110	110	680	6xØ19 (M16)	300	B95E
125-250/75/P	B	150	125	140	110	670	630	470	385	355	1099	1100	880	110	740	6xØ19 (M16)	268	B95D
125-250/110/P	B	150	125	140	110	670	630	470	365	355	1218	1330	1110	110	720	6xØ19 (M16)	300	B95E
125-250/150/P	B	150	125	140	110	670	630	470	365	355	1218	1330	1110	110	720	6xØ19 (M16)	345	B110E
125-315/185/L	B	150	125	140	110	670	630	530	400	355	1375	1430	1210	110	755	6xØ19 (M16)	444	B110D
125-315/220/L	B	150	125	140	110	670	630	530	400	355	1375	1430	1210	110	653	6xØ19 (M16)	417	B110D
125-315/300/L	B	150	125	140	110	670	630	530	420	355	1455	1430	1210	110	705	6xØ19 (M16)	485	B125C
125-315/370/L	B	150	125	140	110	750	710	530	415	355	1515	1600	1380	110	724	6xØ19 (M16)	571	B140B
125-400/370/L	B	150	125	140	110	750	710	530	440	400	1515	1600	1380	110	749	6xØ19 (M16)	621	B140B
125-400/450/L	B	150	125	140	110	750	710	530	440	400	1515	1600	1380	110	749	6xØ19 (M16)	652	B140B
125-400/550/L	B	150	125	140	110	750	710	530	440	400	1581	1600	1380	110	802	6xØ19 (M16)	805	B160B
125-400/750/L	B	150	125	140	110	750	710	530	440	400	1686	1600	1380	110	839	6xØ19 (M16)	894	B180B

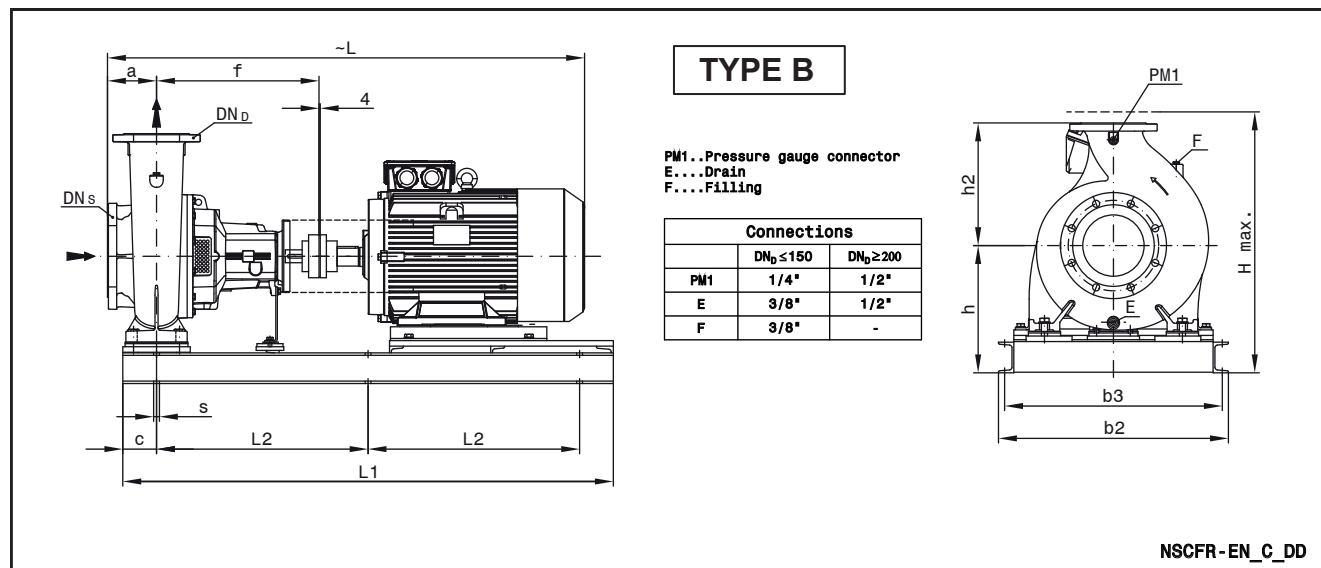
NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf80-125\_4p50-en\_e\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

## NSCF 150 SERIES (MOUNTED ON BASE)

### DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES



PUMP TYPE NSCF..4	TYPE	DIMENSIONS (mm)														H max	s FOR SCREWS	WEIGHT (kg) G	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3					
150-200/110A/P	B	200	150	160	110	670	630	470	385	400	1238	1330	110	1110	785	6xØ19 (M16)	357	B95E	
150-200/110/P	B	200	150	160	110	670	630	470	385	400	1238	1330	110	1110	785	6xØ19 (M16)	357	B95E	
150-200/150A/P	B	200	150	160	110	670	630	470	385	400	1238	1330	110	1110	785	6xØ19 (M16)	402	B110E	
150-200/150/P	B	200	150	160	110	670	630	470	385	400	1238	1330	110	1110	785	6xØ19 (M16)	402	B110E	
150-250/150/P	B	200	150	160	110	670	630	530	385	400	1298	1430	110	1210	785	6xØ19 (M16)	413	B110C	
150-250/185/L	B	200	150	160	110	670	630	530	400	400	1395	1430	110	1210	800	6xØ19 (M16)	434	B110D	
150-250/220/L	B	200	150	160	110	670	630	530	400	400	1395	1430	110	1210	653	6xØ19 (M16)	450	B110D	
150-250/300/L	B	200	150	160	110	670	630	530	420	400	1475	1430	110	1210	705	6xØ19 (M16)	509	B125C	
150-315/300/L	B	200	150	160	110	670	630	530	420	400	1475	1430	110	1210	705	6xØ19 (M16)	515	B125C	
150-315/370/L	B	200	150	160	110	750	710	530	415	400	1534	1600	110	1380	724	6xØ19 (M16)	622	B140B	
150-315/450/L	B	200	150	160	110	750	710	530	415	400	1534	1600	110	1380	724	6xØ19 (M16)	654	B140B	
150-400/450/L	B	200	150	160	110	750	710	530	440	450	1534	1600	110	1380	749	6xØ19 (M16)	698	B140B	
150-400/550/L	B	200	150	160	110	750	710	530	440	450	1600	1600	110	1380	802	6xØ19 (M16)	851	B160B	
150-400/750/L	B	200	150	160	110	750	710	530	440	450	1705	1600	110	1380	840	6xØ19 (M16)	946	B180B	
150-400/900/L	B	200	150	160	110	750	710	530	440	450	1705	1600	110	1380	840	6xØ19 (M16)	1040	B180B	
150-400/1100/L	B	200	150	160	110	750	710	530	440	450	1705	1600	110	1380	840	6xØ19 (M16)	1114	B180B	
150-500/900/L	B	200	150	180	165	860	810	770	565	500	1965	1750	165	1420	965	6xØ26 (M20)	1273	B180C	
150-500/1100/L	B	200	150	180	165	860	810	770	585	500	1965	2000	165	1670	985	6xØ26 (M20)	1534	B200A	
150-500/1320/L	B	200	150	180	165	860	810	770	585	500	2109	2000	165	1670	1079	6xØ26 (M20)	1648	B200A	
150-500/1600/L	B	200	150	180	165	860	810	770	585	500	2109	2000	165	1670	1079	6xØ26 (M20)	1670	B200A	
150-500/2000/L	B	200	150	180	165	860	810	770	585	500	2256	2000	165	1670	1079	6xØ26 (M20)	1825	B225A	

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf150\_4p50-en\_e\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

## NSCF 200, 250, 300 SERIES (MOUNTED ON BASE) DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

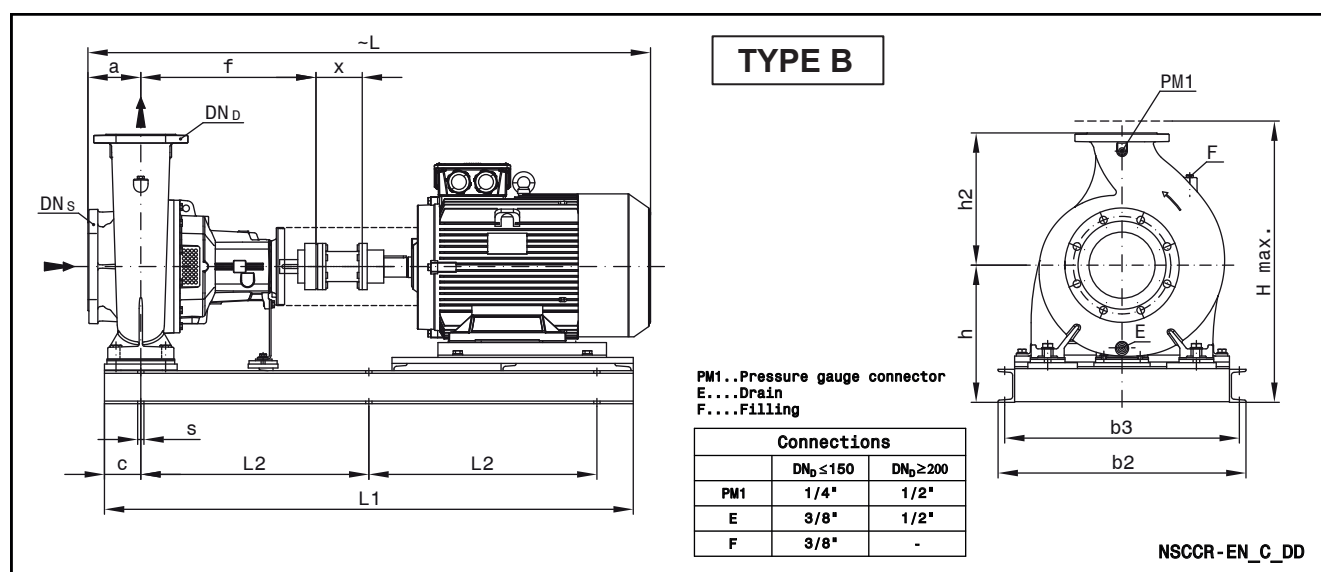
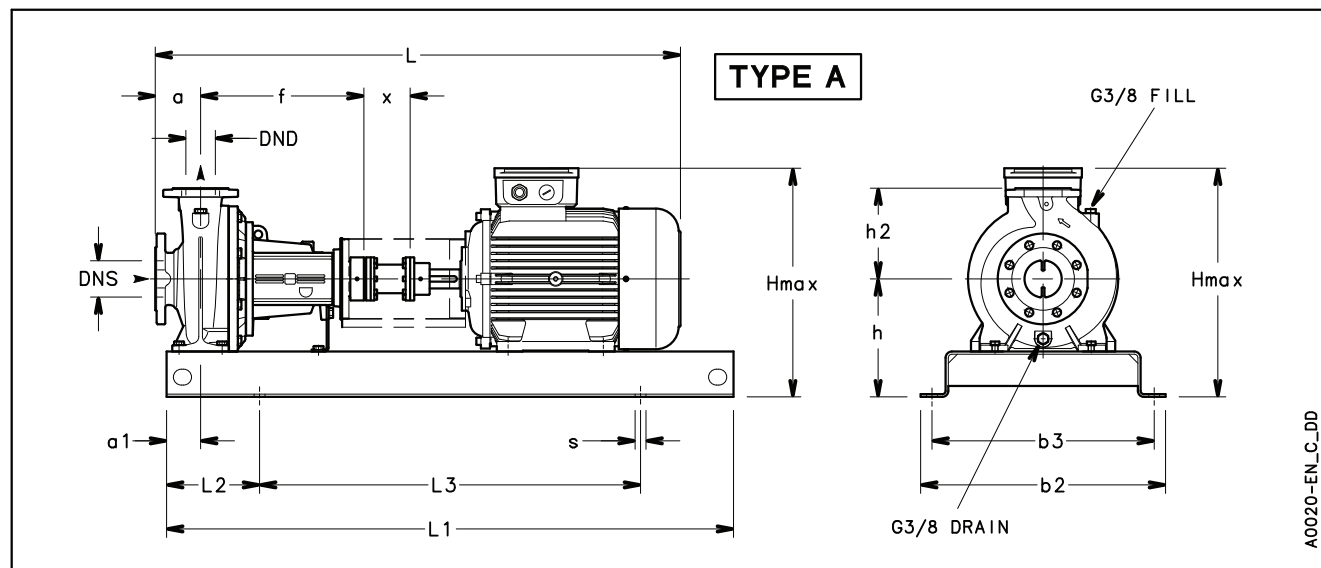
PUMP TYPE NSCF..4	TYPE	DIMENSIONS (mm)															H max	s FOR SCREWS	WEIGHT (kg) G	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3						
200-250/185/L	B	250	200	180	110	670	630	530	460	475	1415	1450	110	1230	935	6xØ19 (M16)	481	B110D		
200-250/220/L	B	250	200	180	110	670	630	530	460	475	1415	1450	110	1230	713	6xØ19 (M16)	500	B110D		
200-250/300A/L	B	250	200	180	110	670	630	530	460	475	1495	1450	110	1230	745	6xØ19 (M16)	556	B125C		
200-250/300/L	B	250	200	180	110	670	630	530	460	475	1495	1450	110	1230	745	6xØ19 (M16)	556	B125C		
200-315/300/L	B	250	200	180	110	670	630	530	460	450	1495	1450	110	1230	745	6xØ19 (M16)	560	B125C		
200-315/370/L	B	250	200	180	110	750	710	530	480	450	1555	1660	110	1440	789	6xØ19 (M16)	659	B140B		
200-315/450/L	B	250	200	180	110	750	710	530	480	450	1555	1660	110	1440	789	6xØ19 (M16)	690	B140B		
200-315/550/L	B	250	200	180	110	750	710	530	480	450	1621	1660	110	1440	842	6xØ19 (M16)	844	B160B		
200-315/750/L	B	250	200	180	110	750	710	530	480	450	1726	1660	110	1440	879	6xØ19 (M16)	932	B180B		
200-400/750A/L	B	250	200	180	165	860	810	770	565	500	1966	1750	165	1420	964	6xØ26 (M20)	1110	B180C		
200-400/750/L	B	250	200	180	165	860	810	770	565	500	1966	1750	165	1420	964	6xØ26 (M20)	1110	B180C		
200-400/900/L	B	250	200	180	165	860	810	770	565	500	1966	1750	165	1420	964	6xØ26 (M20)	1205	B180C		
200-400/1100/L	B	250	200	180	165	860	810	770	585	500	2110	2000	165	1670	1079	6xØ26 (M20)	1487	B200A		
200-400/1320/L	B	250	200	180	165	860	810	770	585	500	2110	2000	165	1670	1079	6xØ26 (M20)	1543	B200A		
200-500/1320/L	B	250	200	200	165	860	810	770	635	560	2130	2000	165	1670	1129	6xØ26 (M20)	1603	B200A		
200-500/1600/L	B	250	200	200	165	860	810	770	635	560	2130	2000	165	1670	1129	6xØ26 (M20)	1673	B200A		
200-500/2000/L	B	250	200	200	165	860	810	770	635	560	2279	2000	165	1670	1129	6xØ26 (M20)	1835	B225A		
200-500/2500/L	B	250	200	200	165	860	810	770	635	560	2279	2000	165	1670	1129	6xØ26 (M20)	2191	B225A		
200-500/3150/L	B	250	200	200	165	1000	930	770	675	560	2439	2200	165	1870	1201	6xØ29 (M24)	2343	B250A		
250-315/370/L	B	300	250	250	165	850	810	530	525	500	1625	1700	165	1370	834	6xØ19 (M16)	773	B140B		
250-315/450/L	B	300	250	250	165	850	810	530	525	500	1625	1700	165	1370	834	6xØ19 (M16)	804	B140B		
250-315/550/L	B	300	250	250	165	850	810	530	525	500	1691	1700	165	1370	887	6xØ19 (M16)	957	B160B		
250-315/750/L	B	300	250	250	165	850	810	530	525	500	1796	1700	165	1370	924	6xØ19 (M16)	1046	B180B		
250-400/750/L	B	300	250	200	165	860	810	770	565	560	1986	1750	165	1420	964	6xØ26 (M20)	1147	B180C		
250-400/900/L	B	300	250	200	165	860	810	770	565	560	1986	1750	165	1420	964	6xØ26 (M20)	1242	B180C		
250-400/1100/L	B	300	250	200	165	860	810	770	585	560	2130	2000	165	1670	1079	6xØ26 (M20)	1524	B200A		
250-400/1320/L	B	300	250	200	165	860	810	770	585	560	2130	2000	165	1670	1079	6xØ26 (M20)	1580	B200A		
250-400/1600/L	B	300	250	200	165	860	810	770	585	560	2130	2000	165	1670	1079	6xØ26 (M20)	1650	B200A		
250-400/2000/L	B	300	250	200	165	860	810	770	585	560	2279	2000	165	1670	1079	6xØ26 (M20)	1813	B225A		
250-500/1600/L	B	300	250	200	165	860	810	770	635	670	2130	2000	165	1670	1129	6xØ26 (M20)	1724	B200A		
250-500/2000/L	B	300	250	200	165	860	810	770	635	670	2279	2000	165	1670	1129	6xØ26 (M20)	1886	B225A		
250-500/2500/L	B	300	250	200	165	860	810	770	635	670	2279	2000	165	1670	1129	6xØ26 (M20)	2242	B225A		
250-500/3150/L	B	300	250	200	165	1000	930	770	675	670	2439	2200	165	1870	1201	6xØ29 (M24)	2394	B250A		
250-500/3550/L	B	300	250	200	165	1000	930	770	675	670	2484	2200	165	1870	1201	6xØ29 (M24)	2444	B250A		
300-350/750A/L	B	350	300	250	200	960	910	800	620	600	2066	1850	200	1450	1019	6xØ26 (M20)	1333	B180C		
300-350/750/L	B	350	300	250	200	960	910	800	620	600	2066	1850	200	1450	1019	6xØ26 (M20)	1333	B180C		
300-350/900/L	B	350	300	250	200	960	910	800	620	600	2066	1850	200	1450	1019	6xØ26 (M20)	1428	B180C		
300-350/1100/L	B	350	300	250	200	960	910	800	640	600	2210	2100	200	1700	1134	6xØ26 (M20)	1725	B200A		
300-400/1100/L	B	350	300	250	200	960	910	800	640	600	2210	2100	200	1700	1134	6xØ26 (M20)	1729	B200A		
300-400/1320/L	B	350	300	250	200	960	910	800	640	600	2210	2100	200	1700	1134	6xØ26 (M20)	1785	B200A		
300-400/1600/L	B	350	300	250	200	960	910	800	640	600	2210	2100	200	1700	1134	6xØ26 (M20)	1855	B200A		
300-400/2000/L	B	350	300	250	200	960	910	800	640	600	2359	2100	200	1700	1134	6xØ26 (M20)	2017	B225A		
300-400/2500/L	B	350	300	250	200	960	910	800	640	600	2359	2100	200	1700	1134	6xØ26 (M20)	2373	B225A		
300-450/1600/L	B	350	300	250	200	960	910	800	665	630	2210	2100	200	1700	1159	6xØ26 (M20)	1896	B200A		
300-450/2000/L	B	350	300	250	200	960	910	800	665	630	2359	2100	200	1700	1159	6xØ26 (M20)	2059	B225A		
300-450/2500/L	B	350	300	250	200	960	910	800	665	630	2359	2100	200	1700	1159	6xØ26 (M20)	2415	B225A		
300-450/3150/L	B	350	300	250	200	1000	930	800	705	630	2519	2250	200	1850	1231	6xØ29 (M24)	2544	B250A		

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscf200-300\_4p50-en\_e\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

# **NSCC 32 SERIES (SPACER COUPLING)** **DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES**



PUMP TYPE NSCC..2	TYPE	DIMENSIONS (mm)															WEIGHT	COUPLING TYPE	
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	x	H max	s FOR SCREWS		kg
32-125/11/S	A	50	32	80	60	360	320	360	212	140	843	800	130	540	100	352	4xØ19 (M16)	68	H80A
32-125/15/P	A	50	32	80	60	390	350	360	212	140	888	900	150	600	100	352	4xØ19 (M16)	78	H80B
32-125/22/P	A	50	32	80	60	390	350	360	212	140	888	900	150	600	100	352	4xØ19 (M16)	80	H80B
32-125/30/P	A	50	32	80	60	390	350	360	212	140	919	900	150	600	100	366	4xØ19 (M16)	87	H80C
32-160/22/P	A	50	32	80	60	390	350	360	232	160	888	900	150	600	100	392	4xØ19 (M16)	81	H80B
32-160/30/P	A	50	32	80	60	390	350	360	232	160	919	900	150	600	100	392	4xØ19 (M16)	88	H80C
32-160/40/P	A	50	32	80	60	390	350	360	232	160	922	900	150	600	100	400	4xØ19 (M16)	93	H80C
32-160/55/P	A	50	32	80	60	450	400	360	232	160	987	1000	170	660	100	423	4xØ24 (M20)	122	H95A
32-200/30/P	A	50	32	80	60	390	350	360	260	180	919	900	150	600	100	440	4xØ19 (M16)	95	H80C
32-200/40/P	A	50	32	80	60	390	350	360	260	180	922	900	150	600	100	440	4xØ19 (M16)	100	H80C
32-200/55/P	A	50	32	80	60	450	400	360	260	180	987	1000	170	660	100	451	4xØ24 (M20)	129	H95A
32-200/75/P	A	50	32	80	60	450	400	360	260	180	987	1000	170	660	100	451	4xØ24 (M20)	133	H95A
32-250/75/P	A	50	32	100	75	490	440	360	280	225	1007	1120	190	740	100	505	4xØ24 (M20)	160	H95A
32-250/110A/P	A	50	32	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	190	H95B
32-250/110/P	A	50	32	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	190	H95B
32-250/150/P	A	50	32	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	207	H95B

NOTA: Pompe con flange in accordo alle norme EN 1092-2.

Nscc32\_2p50-en\_c\_td

Disponibile la versione ASME B16.5 su richiesta. Per dimensioni flange vedere disegno.

## NSCC 40, 50, 65 SERIES (SPACER COUPLING) DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

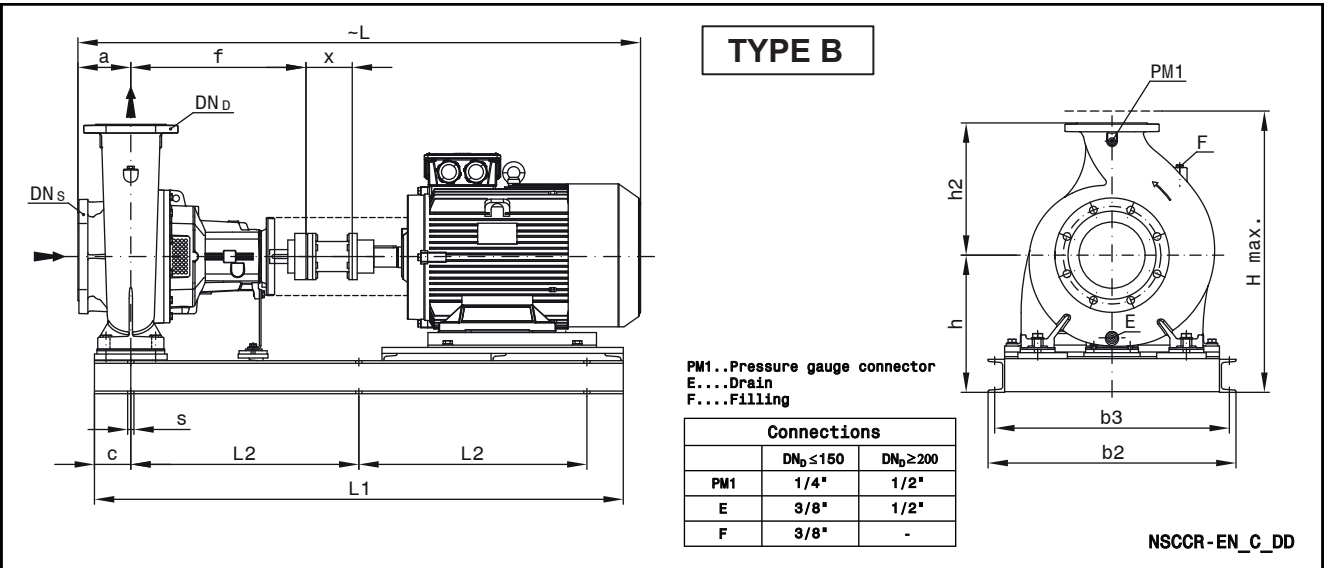
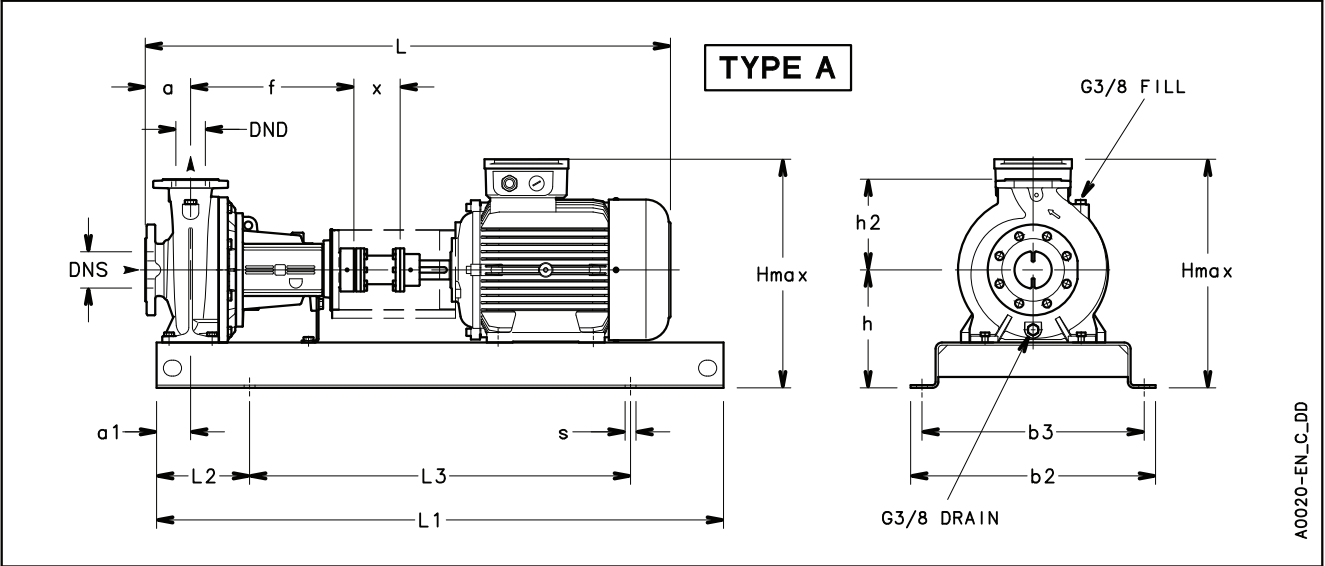
PUMP TYPE NSCC..2	TYPE	DIMENSIONS (mm)																H max	S FOR SCREWS	WEIGHT kg	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	x						
40-125/15/P	A	65	40	80	60	390	350	360	212	140	888	900	150	600	100	352	4xØ19 (M16)	79	H80B		
40-125/22/P	A	65	40	80	60	390	350	360	212	140	888	900	150	600	100	352	4xØ19 (M16)	81	H80B		
40-125/30/P	A	65	40	80	60	390	350	360	212	140	919	900	150	600	100	366	4xØ19 (M16)	88	H80C		
40-125/40/P	A	65	40	80	60	390	350	360	212	140	922	900	150	600	100	380	4xØ19 (M16)	93	H80C		
40-160/30/P	A	65	40	80	60	390	350	360	232	160	919	900	150	600	100	392	4xØ19 (M16)	89	H80C		
40-160/40/P	A	65	40	80	60	390	350	360	232	160	922	900	150	600	100	400	4xØ19 (M16)	94	H80C		
40-160/55/P	A	65	40	80	60	450	400	360	232	160	987	1000	170	660	100	423	4xØ24 (M20)	123	H95A		
40-160/75/P	A	65	40	80	60	450	400	360	232	160	987	1000	170	660	100	423	4xØ24 (M20)	127	H95A		
40-200/55/P	A	65	40	100	60	450	400	360	260	180	1007	1000	170	660	100	451	4xØ24 (M20)	131	H95A		
40-200/75/P	A	65	40	100	60	450	400	360	260	180	1007	1000	170	660	100	451	4xØ24 (M20)	135	H95A		
40-200/110A/P	A	65	40	100	60	490	440	360	260	180	1164	1120	190	740	100	500	4xØ24 (M20)	164	H95B		
40-200/110/P	A	65	40	100	60	490	440	360	260	180	1164	1120	190	740	100	500	4xØ24 (M20)	164	H95B		
40-250/110A/P	A	65	40	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	191	H95B		
40-250/110/P	A	65	40	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	191	H95B		
40-250/150/P	A	65	40	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	208	H95B		
40-250/185/P	A	65	40	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	192	H95B		
40-250/220/L	A	65	40	100	75	540	490	360	280	225	1261	1250	205	840	100	533	4xØ24 (M20)	252	H110A		
50-125/30/P	A	65	50	100	60	390	350	360	232	160	939	900	150	600	100	392	4xØ19 (M16)	91	H80C		
50-125/40/P	A	65	50	100	60	390	350	360	232	160	942	900	150	600	100	400	4xØ19 (M16)	96	H80C		
50-125/55/P	A	65	50	100	60	450	400	360	232	160	1007	1000	170	660	100	423	4xØ24 (M20)	125	H95A		
50-125/75/P	A	65	50	100	60	450	400	360	232	160	1007	1000	170	660	100	423	4xØ24 (M20)	129	H95A		
50-160/55/P	A	65	50	100	60	450	400	360	260	180	1007	1000	170	660	100	451	4xØ24 (M20)	132	H95A		
50-160/75/P	A	65	50	100	60	450	400	360	260	180	1007	1000	170	660	100	451	4xØ24 (M20)	136	H95A		
50-160/110A/P	A	65	50	100	60	490	440	360	260	180	1164	1120	190	740	100	500	4xØ24 (M20)	165	H95B		
50-160/110/P	A	65	50	100	60	490	440	360	260	180	1164	1120	190	740	100	500	4xØ24 (M20)	165	H95B		
50-200/110A/P	A	65	50	100	60	490	440	360	260	200	1164	1120	190	740	100	500	4xØ24 (M20)	166	H95B		
50-200/110/P	A	65	50	100	60	490	440	360	260	200	1164	1120	190	740	100	500	4xØ24 (M20)	166	H95B		
50-200/150/P	A	65	50	100	60	490	440	360	260	200	1164	1120	190	740	100	500	4xØ24 (M20)	183	H95B		
50-200/185/P	A	65	50	100	60	490	440	360	260	200	1164	1120	190	740	100	500	4xØ24 (M20)	167	H95B		
50-250/150/P	A	65	50	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	209	H95B		
50-250/185/P	A	65	50	100	75	540	490	360	280	225	1164	1250	205	840	100	520	4xØ24 (M20)	193	H95B		
50-250/220/L	A	65	50	100	75	540	490	360	280	225	1261	1250	205	840	100	533	4xØ24 (M20)	253	H110A		
50-250/300/L	A	65	50	100	75	610	550	360	310	225	1341	1400	230	940	100	595	4xØ28 (M24)	336	H125A		
50-315/370/L	B	65	50	125	110	560	520	470	355	280	1516	1350	110	1130	140	640	6xØ19 (M16)	430	H125C		
50-315/450/L	B	65	50	125	110	560	520	470	355	280	1545	1350	110	1130	140	664	6xØ19 (M16)	505	H125C		
50-315/550/L	B	65	50	125	110	750	710	470	405	280	1641	1550	110	1330	140	767	6xØ19 (M16)	717	H140A		
50-315/750/L	B	65	50	125	110	750	710	470	405	280	1691	1550	110	1330	140	805	6xØ19 (M16)	844	H160A		
65-125/40/P	A	80	65	100	75	390	350	360	260	180	942	900	150	600	100	440	4xØ19 (M16)	107	H80C		
65-125/55/P	A	80	65	100	75	450	400	360	260	180	1007	1000	170	660	100	451	4xØ24 (M20)	136	H95A		
65-125/75/P	A	80	65	100	75	450	400	360	260	180	1007	1000	170	660	100	451	4xØ24 (M20)	140	H95A		
65-125/110A/P	A	80	65	100	75	490	440	360	260	180	1164	1120	190	740	100	500	4xØ24 (M20)	170	H95B		
65-125/110/P	A	80	65	100	75	490	440	360	260	180	1164	1120	190	740	100	500	4xØ24 (M20)	170	H95B		
65-160/75/P	A	80	65	100	75	490	440	360	260	200	1007	1120	190	740	100	460	4xØ24 (M20)	161	H95A		
65-160/110A/P	A	80	65	100	75	540	490	360	260	200	1164	1250	205	840	100	500	4xØ24 (M20)	191	H95B		
65-160/110/P	A	80	65	100	75	540	490	360	260	200	1164	1250	205	840	100	500	4xØ24 (M20)	191	H95B		
65-160/150/P	A	80	65	100	75	540	490	360	260	200	1164	1250	205	840	100	500	4xØ24 (M20)	208	H95B		
65-160/185/P	A	80	65	100	75	540	490	360	260	200	1164	1250	205	840	100	500	4xØ24 (M20)	192	H95B		
65-200/110/P	A	80	65	100	75	540	490	360	280	225	1204	1250	205	840	140	520	4xØ24 (M20)	194	H95G		
65-200/150/P	A	80	65	100	75	540	490	360	280	225	1204	1250	205	840	140	520	4xØ24 (M20)	211	H95G		
65-200/185/P	A	80	65	100	75	540	490	360	280	225	1204	1250	205	840	140	520	4xØ24 (M20)	195	H95G		
65-200/220/L	A	80	65	100	75	540	490	360	280	225	1301	1250	205	840	140	533	4xØ24 (M20)	255	H110E		
65-200/300/L	A	80	65	100	75	610	550	360	310	225	1381	1400	230	940	140	595	4xØ28 (M24)	338	H125H		
65-250/220/L	A	80	65	100	90	540	490	470	310	250	1411	1250	205	840	140	563	4xØ24 (M20)	273	H110B		
65-250/300/L	A	80	65	100	90	610	550	470	310	250	1491	1400	230	940	140	595	4xØ28 (M24)	356	H125C		
65-250/370/L	A	80	65	100	90	610	550	470	310	250	1491	1400	230	940	140	595	4xØ28 (M24)	376	H125C		
65-250/450/L	A	80	65	100	90	610	550	470	365	250	1520	1400	230	940	140	674	4xØ28 (M24)	457	H125C		
65-250/550/L	A	80	65	100	90	660	600	470	390	250	1616	1600	270	1060	140	752	4xØ28 (M24)	651	H140A		
65-315/550/L	B	80	65	125	110	750	710	470	405	280	1641	1550	110	1330	140	767	6xØ19 (M16)	725	H140A		
65-315/750/L	B	80	65	125	110	750	710	470	390	280	1691	1550	110	1330	140	790	6xØ19 (M16)	841	H160A		
65-315/900/L	B	80	65	125	110	750	710	470	390	280	1746	1550	110	1330	140	790	6xØ19 (M16)	923	H160A		

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscc40-65-2p50-en\_d\_id

Available ASME B16.5 version on request. For flanges dimensions see drawing.

**NSCC 80, 100, 125 SERIES (SPACER COUPLING)  
DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES**



## NSCC 80, 100, 125 SERIES (SPACER COUPLING) DIMENSIONS AND WEIGHTS AT 50 Hz, 2 POLES

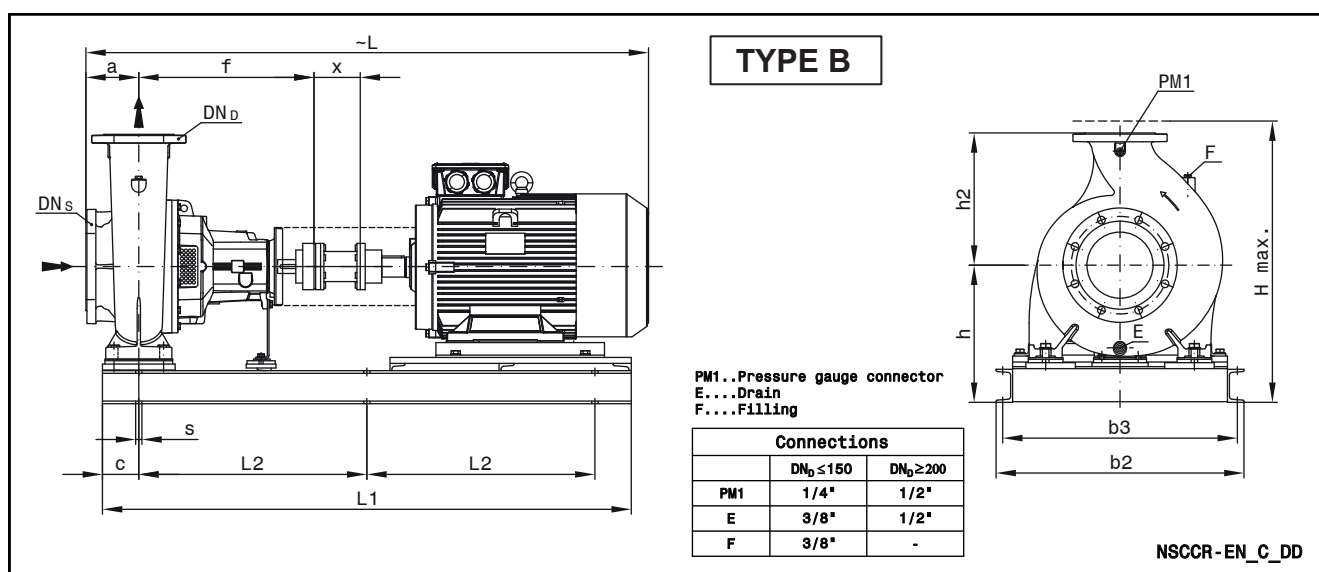
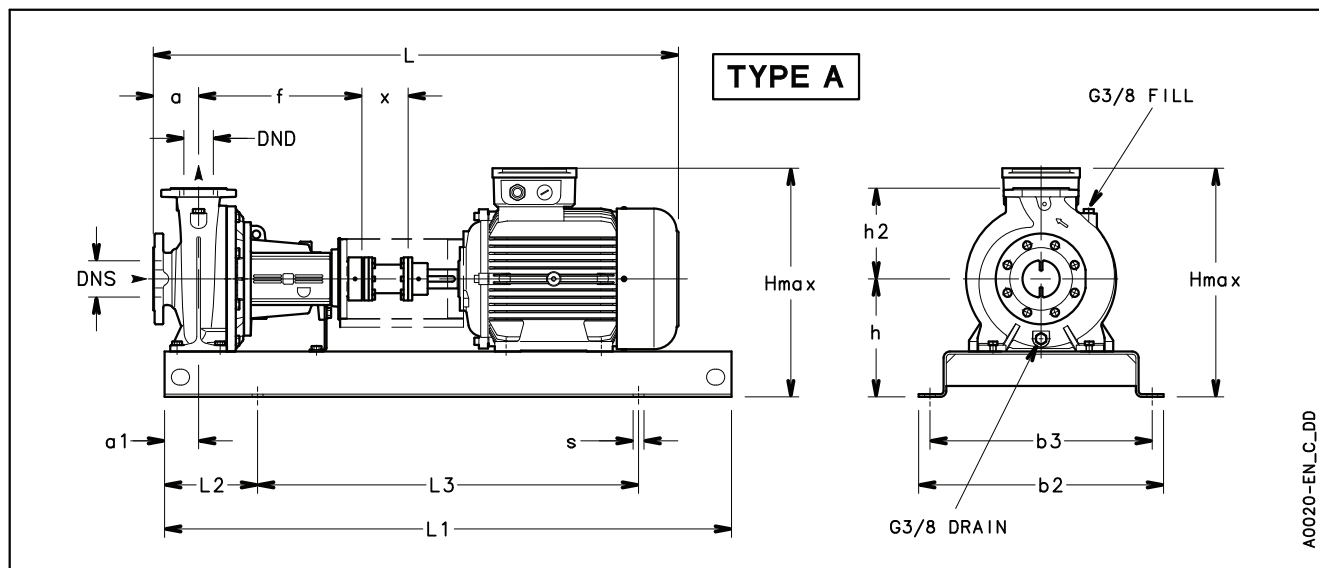
PUMP TYPE NSCC..2	TYPE	DIMENSIONS (mm)																WEIGHT (kg)	COUPLING
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	x	H	s		
80-160/110/P	A	100	80	125	75	540	490	360	280	225	1229	1250	205	840	140	520	4xØ24 (M20)	197	H95F
80-160/150/P	A	100	80	125	75	540	490	360	280	225	1229	1250	205	840	140	520	4xØ24 (M20)	214	H95F
80-160/185/P	A	100	80	125	75	540	490	360	280	225	1229	1250	205	840	140	520	4xØ24 (M20)	198	H95F
80-160/220/L	A	100	80	125	75	540	490	360	280	225	1326	1250	205	840	140	533	4xØ24 (M20)	258	H110E
80-200/220/L	A	100	80	125	75	540	490	470	280	250	1436	1250	205	840	140	533	4xØ24 (M20)	275	H110B
80-200/300/L	A	100	80	125	75	610	550	470	310	250	1516	1400	230	940	140	595	4xØ28 (M24)	358	H125C
80-200/370/L	A	100	80	125	75	610	550	470	310	250	1516	1400	230	940	140	595	4xØ28 (M24)	394	H125C
80-200/450/L	A	100	80	125	75	610	550	470	365	250	1545	1400	230	940	140	674	4xØ28 (M24)	459	H125C
80-250/370/L	A	100	80	125	90	610	550	470	310	280	1516	1400	230	940	140	595	4xØ28 (M24)	397	H125C
80-250/450/L	A	100	80	125	90	610	550	470	365	280	1545	1400	230	940	140	674	4xØ28 (M24)	462	H125C
80-250/550/L	A	100	80	125	90	660	600	470	390	280	1641	1600	270	1060	140	752	4xØ28 (M24)	656	H140A
80-250/750/L	A	100	80	125	90	730	670	470	420	280	1746	1800	300	1200	140	820	4xØ28 (M24)	822	H160A
80-316/900/L	B	100	80	125	110	750	710	530	440	315	1806	1600	110	1380	140	840	6xØ19 (M16)	992	H160B
80-316/1100/L	B	100	80	125	110	860	810	530	505	315	1806	1850	110	1630	140	905	6xØ26 (M20)	1237	H160B
80-316/1320/L	B	100	80	125	110	860	810	530	505	315	1920	1850	110	1630	140	999	6xØ26 (M20)	1386	H160B
80-316/1600/L	B	100	80	125	110	860	810	530	505	315	1920	1850	110	1630	140	999	6xØ26 (M20)	1446	H160B
100-160/150/P	B	125	100	125	110	670	630	470	365	280	1339	1330	110	1110	140	645	6xØ19 (M16)	307	H95E
100-160/185/P	B	125	100	125	110	670	630	470	365	280	1339	1330	110	1110	140	645	6xØ19 (M16)	285	H95E
100-160/220/L	B	125	100	125	110	670	630	470	385	280	1436	1330	110	1110	140	665	6xØ19 (M16)	352	H110B
100-160/300/L	B	125	100	125	110	560	520	470	330	280	1516	1350	110	1130	140	615	6xØ19 (M16)	391	H125C
100-200/300/L	B	125	100	125	110	560	520	470	330	280	1516	1350	110	1130	140	615	6xØ19 (M16)	399	H125C
100-200/370/L	B	125	100	125	110	560	520	470	330	280	1516	1350	110	1130	140	615	6xØ19 (M16)	435	H125C
100-200/450/L	B	125	100	125	110	560	520	470	355	280	1545	1350	110	1130	140	664	6xØ19 (M16)	507	H125C
100-200/550/L	B	125	100	125	110	750	710	470	405	280	1641	1550	110	1330	140	767	6xØ19 (M16)	720	H140A
100-250/450/L	B	125	100	140	110	560	520	470	355	280	1560	1350	110	1130	140	664	6xØ19 (M16)	510	H125C
100-250/550/L	B	125	100	140	110	750	710	470	405	280	1656	1550	110	1330	140	767	6xØ19 (M16)	723	H140A
100-250/750/L	B	125	100	140	110	750	710	470	390	280	1761	1550	110	1330	140	790	6xØ19 (M16)	839	H160A
100-250/900/L	B	125	100	140	110	750	710	470	390	280	1761	1550	110	1330	140	790	6xØ19 (M16)	921	H160A
100-316/1100/L	B	125	100	140	110	860	810	530	505	315	1821	1850	110	1630	140	905	6xØ26 (M20)	1240	H160B
100-316/1320/L	B	125	100	140	110	860	810	530	505	315	1935	1850	110	1630	140	999	6xØ26 (M20)	1389	H160B
100-316/1600/L	B	125	100	140	110	860	810	530	505	315	1935	1850	110	1630	140	999	6xØ26 (M20)	1449	H160B
125-200/450/L	B	150	125	140	110	560	520	470	355	315	1560	1350	110	1130	140	670	6xØ19 (M16)	515	H125C
125-200/550/L	B	150	125	140	110	750	710	470	405	315	1656	1550	110	1330	140	767	6xØ19 (M16)	727	H140A
125-200/750/L	B	150	125	140	110	750	710	470	405	315	1761	1550	110	1330	140	805	6xØ19 (M16)	854	H160A
125-200/900/L	B	150	125	140	110	750	710	470	405	315	1761	1550	110	1330	140	805	6xØ19 (M16)	936	H160A
125-315/1100/L	B	150	125	140	110	860	810	530	505	355	1821	1850	110	1630	140	905	6xØ26 (M20)	1242	H160B
125-315/1320/L	B	150	125	140	110	860	810	530	505	355	1935	1850	110	1630	140	999	6xØ26 (M20)	1391	H160B
125-315/1600/L	B	150	125	140	110	860	810	530	505	355	1935	1850	110	1630	140	999	6xØ26 (M20)	1451	H160B
125-315/2000/L	B	150	125	140	110	860	810	530	505	355	2085	1850	110	1630	140	999	6xØ26 (M20)	1591	H180A

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscc80-125\_2p50-en\_d\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

# **NSCC 32 SERIES (SPACER COUPLING)** **DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES**



PUMP TYPE NSCC..4	TYPE	DIMENSIONS (mm)															WEIGHT	COUPLING TYPE	
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	x	H max	s FOR SCREWS		kg
32-200/07/X	A	50	32	80	60	360	320	360	260	180	811	800	130	540	100	440	4xØ19 (M16)	79	H80A
32-200/11/P	A	50	32	80	60	390	350	360	260	180	888	900	150	600	100	440	4xØ19 (M16)	88	H80B
32-250/11A/P	A	50	32	100	75	450	400	360	280	225	908	1000	170	660	100	505	4xØ24 (M20)	115	H80B
32-250/11/P	A	50	32	100	75	450	400	360	280	225	908	1000	170	660	100	505	4xØ24 (M20)	115	H80B
32-250/15/P	A	50	32	100	75	450	400	360	280	225	908	1000	170	660	100	505	4xØ24 (M20)	120	H80B
32-250/22/P	A	50	32	100	75	450	400	360	280	225	985	1000	170	660	100	505	4xØ24 (M20)	130	H80C

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Available ASME B16.5 version on request. For flanges dimensions see drawing.

Nscc32\_4p50-en\_d\_td

## NSCC 40, 50, 65 SERIES (SPACER COUPLING) DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

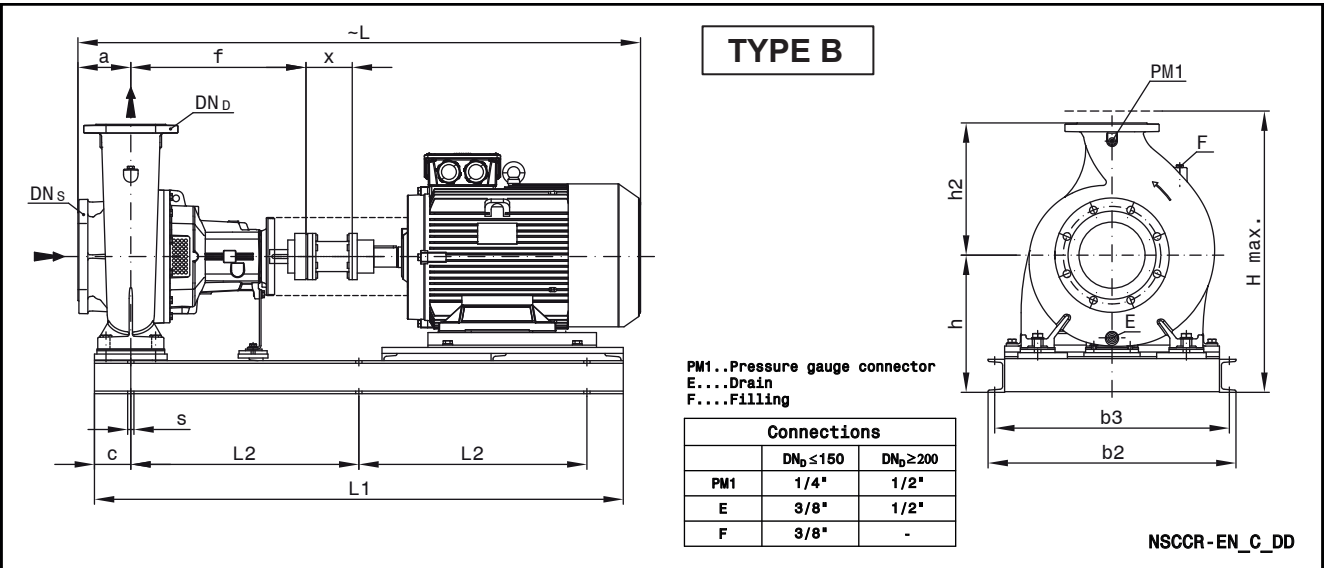
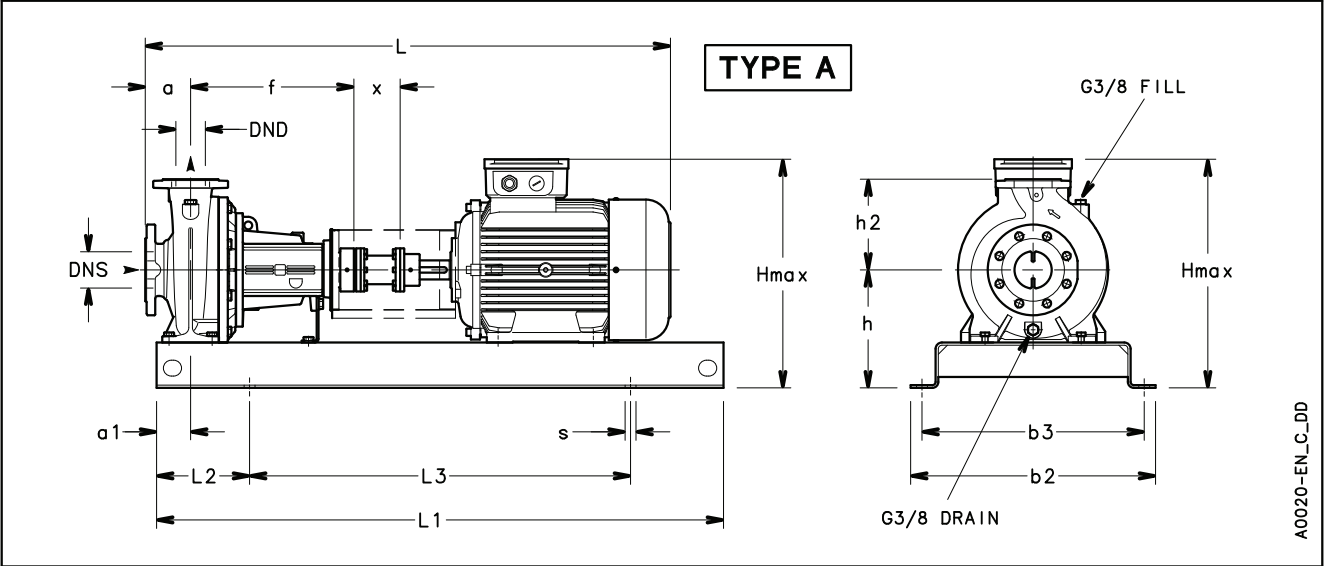
PUMP TYPE NSCC..4	TYPE	DIMENSIONS (mm)																WEIGHT kg	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L2	L3	x	H max	s FOR SCREWS		
40-160/07/X	A	65	40	80	60	360	320	360	232	160	811	800	130	540	100	392	4xØ19 (M16)	73	H80A
40-160/11/P	A	65	40	80	60	390	350	360	232	160	888	900	150	600	100	392	4xØ19 (M16)	82	H80B
40-200/07/X	A	65	40	100	60	390	350	360	260	180	831	900	150	600	100	440	4xØ19 (M16)	84	H80A
40-200/11/P	A	65	40	100	60	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	90	H80B
40-200/15A/P	A	65	40	100	60	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	95	H80B
40-200/15/P	A	65	40	100	60	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	95	H80B
40-250/11/P	A	65	40	100	75	450	400	360	280	225	908	1000	170	660	100	505	4xØ24 (M20)	115	H80E
40-250/15/P	A	65	40	100	75	450	400	360	280	225	908	1000	170	660	100	505	4xØ24 (M20)	121	H80B
40-250/22A/P	A	65	40	100	75	450	400	360	280	225	985	1000	170	660	100	505	4xØ24 (M20)	131	H80C
40-250/22/P	A	65	40	100	75	450	400	360	280	225	985	1000	170	660	100	505	4xØ24 (M20)	131	H80C
40-250/30/P	A	65	40	100	75	450	400	360	280	225	1002	1000	170	660	100	505	4xØ24 (M20)	136	H80C
50-125/07/X	A	65	50	100	60	360	320	360	232	160	831	800	130	540	100	392	4xØ19 (M16)	75	H80A
50-125/11/P	A	65	50	100	60	390	350	360	232	160	908	900	150	600	100	392	4xØ19 (M16)	84	H80B
50-160/07/X	A	65	50	100	60	390	350	360	260	180	831	900	150	600	100	440	4xØ19 (M16)	85	H80A
50-160/11A/P	A	65	50	100	60	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	91	H80B
50-160/11/P	A	65	50	100	60	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	91	H80B
50-160/15/P	A	65	50	100	60	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	96	H80B
50-200/11/P	A	65	50	100	60	390	350	360	260	200	908	900	150	600	100	460	4xØ19 (M16)	92	H80B
50-200/15/P	A	65	50	100	60	390	350	360	260	200	908	900	150	600	100	460	4xØ19 (M16)	97	H80B
50-200/22A/P	A	65	50	100	60	390	350	360	260	200	985	900	150	600	100	460	4xØ19 (M16)	107	H80C
50-200/22/P	A	65	50	100	60	390	350	360	260	200	985	900	150	600	100	460	4xØ19 (M16)	107	H80C
50-250/22A/P	A	65	50	100	75	450	400	360	280	225	985	1000	170	660	100	505	4xØ24 (M20)	132	H80C
50-250/22/P	A	65	50	100	75	450	400	360	280	225	985	1000	170	660	100	505	4xØ24 (M20)	132	H80C
50-250/30/P	A	65	50	100	75	450	400	360	280	225	1002	1000	170	660	100	505	4xØ24 (M20)	137	H80C
50-250/40/P	A	65	50	100	75	450	400	360	280	225	1002	1000	170	660	100	505	4xØ24 (M20)	156	H80C
50-315/40/P	B	65	50	125	110	670	630	470	365	280	1177	1100	110	880	140	645	6xØ19 (M16)	249	H95C
50-315/55/P	B	65	50	125	110	670	630	470	385	280	1220	1100	110	880	140	665	6xØ19 (M16)	260	H95D
50-315/75/P	B	65	50	125	110	670	630	470	385	280	1220	1100	110	880	140	665	6xØ19 (M16)	260	H95D
50-315/110/P	B	65	50	125	110	670	630	470	365	280	1339	1330	110	1110	140	645	6xØ19 (M16)	293	H95E
65-125/07/X	A	80	65	100	75	390	350	360	260	180	831	900	150	600	100	440	4xØ19 (M16)	89	H80A
65-125/11/P	A	80	65	100	75	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	95	H80B
65-125/15/P	A	80	65	100	75	390	350	360	260	180	908	900	150	600	100	440	4xØ19 (M16)	100	H80B
65-160/11A/P	A	80	65	100	75	450	400	360	260	200	908	1000	170	660	100	460	4xØ24 (M20)	116	H80B
65-160/11/P	A	80	65	100	75	450	400	360	260	200	908	1000	170	660	100	460	4xØ24 (M20)	116	H80B
65-160/15/P	A	80	65	100	75	450	400	360	260	200	908	1000	170	660	100	460	4xØ24 (M20)	121	H80B
65-160/22A/P	A	80	65	100	75	450	400	360	260	200	985	1000	170	660	100	460	4xØ24 (M20)	131	H80C
65-160/22/P	A	80	65	100	75	450	400	360	260	200	985	1000	170	660	100	460	4xØ24 (M20)	131	H80C
65-200/15/P	A	80	65	100	75	450	400	360	280	225	948	1000	170	660	140	505	4xØ24 (M20)	124	H80E
65-200/22A/P	A	80	65	100	75	490	440	360	280	225	1025	1120	190	740	140	505	4xØ24 (M20)	140	H80F
65-200/22/P	A	80	65	100	75	490	440	360	280	225	1025	1120	190	740	140	505	4xØ24 (M20)	140	H80F
65-200/30/P	A	80	65	100	75	490	440	360	280	225	1042	1120	190	740	140	505	4xØ24 (M20)	145	H80F
65-200/40/P	A	80	65	100	75	490	440	360	280	225	1042	1120	190	740	140	505	4xØ24 (M20)	164	H80F
65-250/30/P	A	80	65	100	90	490	440	470	310	250	1135	1120	190	740	140	560	4xØ24 (M20)	164	H95C
65-250/40/P	A	80	65	100	90	490	440	470	310	250	1152	1120	190	740	140	560	4xØ24 (M20)	183	H95C
65-250/55A/P	A	80	65	100	90	490	440	470	310	250	1195	1120	190	740	140	560	4xØ24 (M20)	192	H95C
65-250/55/P	A	80	65	100	90	490	440	470	310	250	1195	1120	190	740	140	560	4xØ24 (M20)	192	H95C
65-250/75/P	A	80	65	100	90	490	440	470	310	250	1195	1120	190	740	140	560	4xØ24 (M20)	196	H95C
65-315/55/P	B	80	65	125	110	670	630	470	385	280	1220	1100	110	880	140	665	6xØ19 (M16)	267,2	H95D
65-315/75/P	B	80	65	125	110	670	630	470	385	280	1220	1100	110	880	140	665	6xØ19 (M16)	267,2	H95D
65-315/110/P	B	80	65	125	110	670	630	470	365	280	1339	1330	110	1110	140	645	6xØ19 (M16)	300	H95E
65-315/150/P	B	80	65	125	110	670	630	470	365	280	1339	1330	110	1110	140	645	6xØ19 (M16)	345,6	H110E

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscc40-65\_4p50-en\_d\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

**NSCC 80, 100, 125 SERIES (SPACER COUPLING)  
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES**



## NSCC 80, 100, 125 SERIES (SPACER COUPLING) DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

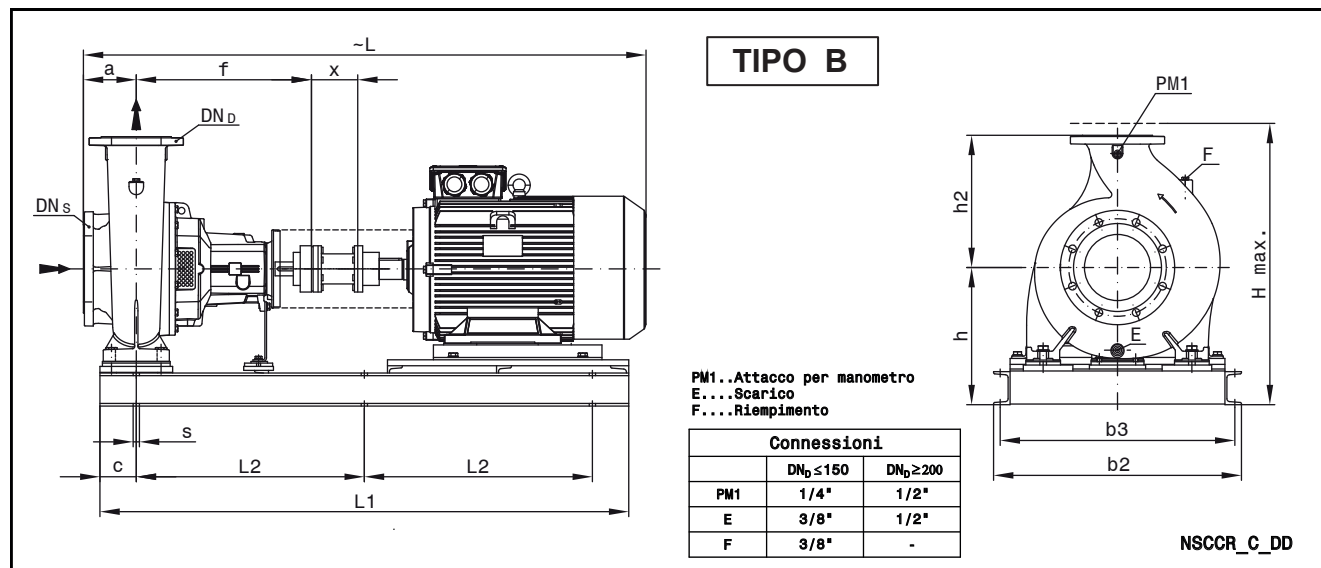
PUMP TYPE NSCC..4	TYPE	DIMENSIONS (mm)																WEIGHT (kg)	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L3	L2	x	H max	s FOR SCREWS		
80-160/15/P	A	100	80	125	75	450	400	360	280	225	973	1000	170	660	140	505	4xØ24 (M20)	127	H80E
80-160/22A/P	A	100	80	125	75	490	440	360	280	225	1050	1120	190	740	140	505	4xØ24 (M20)	143	H80F
80-160/22/P	A	100	80	125	75	490	440	360	280	225	1050	1120	190	740	140	505	4xØ24 (M20)	143	H80F
80-160/30/P	A	100	80	125	75	490	440	360	280	225	1067	1120	190	740	140	505	4xØ24 (M20)	148	H80F
80-200/30/P	A	100	80	125	75	490	440	470	280	250	1177	1120	190	740	140	530	4xØ24 (M20)	165	H80G
80-200/40/P	A	100	80	125	75	490	440	470	280	250	1177	1120	190	740	140	530	4xØ24 (M20)	185	H80G
80-200/55A/P	A	100	80	125	75	490	440	470	280	250	1220	1120	190	740	140	530	4xØ24 (M20)	194	H95C
80-200/55/P	A	100	80	125	75	490	440	470	280	250	1220	1120	190	740	140	530	4xØ24 (M20)	194	H95C
80-250/55A/P	A	100	80	125	90	540	490	470	310	280	1220	1250	205	840	140	590	4xØ24 (M20)	203	H95C
80-250/55/P	A	100	80	125	90	540	490	470	310	280	1220	1250	205	840	140	590	4xØ24 (M20)	203	H95C
80-250/75/P	A	100	80	125	90	540	490	470	310	280	1220	1250	205	840	140	590	4xØ24 (M20)	207	H95C
80-250/110/P	A	100	80	125	90	540	490	470	310	280	1339	1250	205	840	140	590	4xØ24 (M20)	262	H95E
80-315/110A/P	B	100	80	125	110	670	630	470	365	315	1339	1330	1110	110	140	680	6xØ19 (M16)	308.8	H95E
80-315/110/P	B	100	80	125	110	670	630	470	365	315	1339	1330	1110	110	140	680	6xØ19 (M16)	308.8	H95E
80-315/150/P	B	100	80	125	110	670	630	470	365	315	1339	1330	1110	110	140	680	6xØ19 (M16)	354.4	H110E
80-315/185/L	B	100	80	125	110	670	630	470	385	315	1436	1330	1110	110	140	700	6xØ19 (M16)	375.3	H110B
80-315/220/L	B	100	80	125	110	670	630	470	385	315	1436	1330	1110	110	140	700	6xØ19 (M16)	391.3	H110B
80-400/185/L	B	100	80	125	110	670	630	530	400	355	1496	1430	1210	110	140	755	6xØ19 (M16)	407.9	H110C
80-400/220/L	B	100	80	125	110	670	630	530	400	355	1496	1430	1210	110	140	755	6xØ19 (M16)	423.9	H110C
80-400/300/L	B	100	80	125	110	670	630	530	420	355	1576	1430	1210	110	140	775	6xØ19 (M16)	481.5	H125D
80-400/370/L	B	100	80	125	110	750	710	530	415	355	1635	1600	1380	110	140	770	6xØ19 (M16)	593.4	H140B
100-160/22A/P	B	125	100	125	110	670	630	470	355	280	1160	1100	880	110	140	635	6xØ19 (M16)	219	H95C
100-160/22/P	B	125	100	125	110	670	630	470	355	280	1160	1100	880	110	140	635	6xØ19 (M16)	219	H95C
100-160/30/P	B	125	100	125	110	670	630	470	355	280	1177	1100	880	110	140	635	6xØ19 (M16)	222	H95C
100-160/40/P	B	125	100	125	110	670	630	470	365	280	1177	1100	880	110	140	645	6xØ19 (M16)	243	H95C
100-200/40/P	B	125	100	125	110	670	630	470	365	280	1177	1100	880	110	140	645	6xØ19 (M16)	251	H95C
100-200/55/P	B	125	100	125	110	670	630	470	385	280	1220	1100	880	110	140	665	6xØ19 (M16)	262	H95D
100-200/75/P	B	125	100	125	110	670	630	470	385	280	1220	1100	880	110	140	665	6xØ19 (M16)	262	H95D
100-250/55/P	B	125	100	140	110	670	630	470	385	280	1235	1100	880	110	140	665	6xØ19 (M16)	265	H95D
100-250/75/P	B	125	100	140	110	670	630	470	385	280	1235	1100	880	110	140	665	6xØ19 (M16)	265	H95D
100-250/110/P	B	125	100	140	110	670	630	470	365	280	1354	1330	1110	110	140	645	6xØ19 (M16)	298	H95E
100-315/110/P	B	125	100	140	110	670	630	470	365	315	1354	1330	1110	110	140	680	6xØ19 (M16)	307	H95E
100-315/150/P	B	125	100	140	110	670	630	470	365	315	1354	1330	1110	110	140	680	6xØ19 (M16)	352	H110E
100-315/185/L	B	125	100	140	110	670	630	470	385	315	1451	1330	1110	110	140	700	6xØ19 (M16)	373	H110B
100-315/220/L	B	125	100	140	110	670	630	470	385	315	1451	1330	1110	110	140	700	6xØ19 (M16)	389	H110B
100-315/300/L	B	125	100	140	110	560	520	470	355	315	1531	1350	1130	110	140	670	6xØ19 (M16)	422	H125C
100-400/300/L	B	125	100	140	110	670	630	530	420	355	1591	1430	1210	110	140	775	6xØ19 (M16)	511	H125D
100-400/370/L	B	125	100	140	110	750	710	530	415	355	1650	1600	1380	110	140	770	6xØ19 (M16)	619	H140B
100-400/450/L	B	125	100	140	110	750	710	530	415	355	1650	1600	1380	110	140	770	6xØ19 (M16)	651	H140B
125-200/55/P	B	150	125	140	110	670	630	470	385	315	1235	1100	880	110	140	700	6xØ19 (M16)	270	H95D
125-200/75/P	B	150	125	140	110	670	630	470	385	315	1235	1100	880	110	140	700	6xØ19 (M16)	270	H95D
125-200/110/P	B	150	125	140	110	670	630	470	365	315	1354	1330	1110	110	140	680	6xØ19 (M16)	303	H95E
125-250/75/P	B	150	125	140	110	670	630	470	385	355	1235	1100	880	110	140	740	6xØ19 (M16)	270	H95D
125-250/110/P	B	150	125	140	110	670	630	470	365	355	1354	1330	1110	110	140	720	6xØ19 (M16)	303	H95E
125-250/150/P	B	150	125	140	110	670	630	470	365	355	1354	1330	1110	110	140	720	6xØ19 (M16)	348	H110E
125-315/185/L	B	150	125	140	110	670	630	530	400	355	1511	1430	1210	110	140	755	6xØ19 (M16)	409	H110C
125-315/220/L	B	150	125	140	110	670	630	530	400	355	1511	1430	1210	110	140	755	6xØ19 (M16)	425	H110C
125-315/300/L	B	150	125	140	110	670	630	530	420	355	1591	1430	1210	110	140	775	6xØ19 (M16)	485	H125D
125-315/370/L	B	150	125	140	110	750	710	530	415	355	1650	1600	1380	110	140	770	6xØ19 (M16)	593	H140B
125-400/370/L	B	150	125	140	110	750	710	530	440	400	1650	1600	1380	110	140	840	6xØ19 (M16)	644	H140B
125-400/450/L	B	150	125	140	110	750	710	530	440	400	1650	1600	1380	110	140	840	6xØ19 (M16)	676	H140B
125-400/550/L	B	150	125	140	110	750	710	530	440	400	1716	1600	1380	110	140	840	6xØ19 (M16)	830	H160B
125-400/750/L	B	150	125	140	110	750	710	530	440	400	1821	1600	1380	110	140	840	6xØ19 (M16)	926	H180B

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nsc80-125\_4p50-en\_d\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

# NSCC 150 SERIES (SPACER COUPLING) DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES



PUMP TYPE NSCC..4	TYPE	DIMENSIONS (mm)																WEIGHT (kg)	COUPLING
		DN <sub>S</sub>	DN <sub>D</sub>	a	a1	b2	b3	f	h	h2	L	L1	L3	L2	x	H	s		
150-200/110A/P	B	200	150	160	110	670	630	470	385	400	1374	1330	1110	110	140	785	6xØ19 (M16)	360	H95E
150-200/110/P	B	200	150	160	110	670	630	470	385	400	1374	1330	1110	110	140	785	6xØ19 (M16)	360	H95E
150-200/150A/P	B	200	150	160	110	670	630	470	385	400	1374	1330	1110	110	140	785	6xØ19 (M16)	405	H110E
150-200/150/P	B	200	150	160	110	670	630	470	385	400	1374	1330	1110	110	140	785	6xØ19 (M16)	405	H110E
150-250/150/P	B	200	150	160	110	670	630	530	385	400	1434	1430	1210	110	140	785	6xØ19 (M16)	416	H110F
150-250/185/L	B	200	150	160	110	670	630	530	400	400	1531	1430	1210	110	140	800	6xØ19 (M16)	437	H110C
150-250/220/L	B	200	150	160	110	670	630	530	400	400	1531	1430	1210	110	140	653	6xØ19 (M16)	453	H110C
150-250/300/L	B	200	150	160	110	670	630	530	420	400	1611	1430	1210	110	140	705	6xØ19 (M16)	513	H125D
150-315/300/L	B	200	150	160	110	670	630	530	420	400	1611	1430	1210	110	140	705	6xØ19 (M16)	519	H125D
150-315/370/L	B	200	150	160	110	750	710	530	415	400	1670	1600	1380	110	140	724	6xØ19 (M16)	627	H140B
150-315/450/L	B	200	150	160	110	750	710	530	415	400	1670	1600	1380	110	140	724	6xØ19 (M16)	659	H140B
150-400/450/L	B	200	150	160	110	750	710	530	440	450	1670	1600	1380	110	140	749	6xØ19 (M16)	704	H140B
150-400/550/L	B	200	150	160	110	750	710	530	440	450	1736	1600	1380	110	140	802	6xØ19 (M16)	858	H160B
150-400/750/L	B	200	150	160	110	750	710	530	440	450	1841	1600	1380	110	140	840	6xØ19 (M16)	954	H180B
150-400/900/L	B	200	150	160	110	750	710	530	440	450	1841	1600	1380	110	140	840	6xØ19 (M16)	1048	H180B
150-400/1100/L	B	200	150	160	110	750	710	530	440	450	1841	1600	1380	110	140	840	6xØ19 (M16)	1122	H180B
150-500/900/L	B	200	150	180	165	860	810	770	565	500	2211	2000	1670	165	250	965	6xØ26 (M20)	1292	H180D
150-500/1100/L	B	200	150	180	165	860	810	770	585	500	2211	2250	1920	165	250	985	6xØ26 (M20)	1558	H200A
150-500/1320/L	B	200	150	180	165	860	810	770	585	500	2355	2250	1920	165	250	1079	6xØ26 (M20)	1672	H200A
150-500/1600/L	B	200	150	180	165	860	810	770	585	500	2355	2250	1920	165	250	1079	6xØ26 (M20)	1694	H200A
150-500/2000/L	B	200	150	180	165	860	810	770	585	500	2505	2250	1920	165	250	1079	6xØ26 (M20)	1853	H225A

NOTE: Pumps with flanges according to EN 1092-2 as standard.

c150\_4p50-en\_e\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

## NSCC 200, 250, 300 SERIES (SPACER COUPLING) DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

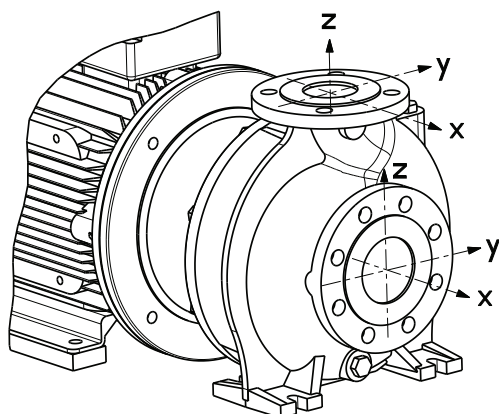
PUMP TYPE NSCC..4	TYPE	DIMENSIONS (mm)																WEIGHT (kg)	COUPLING TYPE
		DNS	DND	a	a1	b2	b3	f	h	h2	L	L1	L3	L2	x	H max	s FOR SCREWS		
200-250/185/L	B	250	200	180	110	670	630	530	460	475	1611	1450	1230	110	200	935	6xØ19 (M16)	488	H125E
200-250/220/L	B	250	200	180	110	670	630	530	460	475	1611	1450	1230	110	200	935	6xØ19 (M16)	507	H125E
200-250/300A/L	B	250	200	180	110	670	630	530	460	475	1691	1450	1230	110	200	935	6xØ19 (M16)	560.5	H125F
200-250/300/L	B	250	200	180	110	670	630	530	460	475	1691	1450	1230	110	200	935	6xØ19 (M16)	560.5	H125F
200-315/300/L	B	250	200	180	110	670	630	530	460	450	1691	1450	1230	110	200	910	6xØ19 (M16)	564.5	H125F
200-315/370/L	B	250	200	180	110	750	710	530	480	450	1751	1660	1440	110	200	930	6xØ19 (M16)	666.2	H140C
200-315/450/L	B	250	200	180	110	750	710	530	480	450	1751	1660	1440	110	200	930	6xØ19 (M16)	697.2	H140C
200-315/550/L	B	250	200	180	110	750	710	530	480	450	1817	1660	1440	110	200	930	6xØ19 (M16)	852	H160C
200-315/750/L	B	250	200	180	110	750	710	530	480	450	1922	1660	1440	110	200	930	6xØ19 (M16)	942.1	H180C
200-400/750A/L	B	250	200	180	165	860	810	770	565	500	2212	2000	1670	165	250	1065	6xØ26 (M20)	1129	H180D
200-400/750/L	B	250	200	180	165	860	810	770	565	500	2212	2000	1670	165	250	1065	6xØ26 (M20)	1129	H180D
200-400/900/L	B	250	200	180	165	860	810	770	565	500	2212	2000	1670	165	250	1065	6xØ26 (M20)	1224	H180D
200-400/1100/L	B	250	200	180	165	860	810	770	585	500	2356	2250	1920	165	250	1085	6xØ26 (M20)	1511	H200A
200-400/1320/L	B	250	200	180	165	860	810	770	585	500	2356	2250	1920	165	250	1085	6xØ26 (M20)	1567	H200A
200-500/1320/L	B	250	200	200	165	860	810	770	635	560	2376	2250	1920	165	250	1195	6xØ26 (M20)	1627	H200A
200-500/1600/L	B	250	200	200	165	860	810	770	635	560	2376	2250	1920	165	250	1195	6xØ26 (M20)	1697	H200A
200-500/2000/L	B	250	200	200	165	860	810	770	635	560	2525	2250	1920	165	250	1195	6xØ26 (M20)	1864	H225A
200-500/2500/L	B	250	200	200	165	860	810	770	635	560	2525	2250	1920	165	250	1195	6xØ26 (M20)	2220	H225A
200-500/3150/L	B	250	200	200	165	1000	930	770	675	560	2685	2450	2120	165	250	1235	6xØ29 (M24)	2380	H250A
250-315/370/L	B	300	250	250	165	850	810	530	525	500	1821	1700	1370	165	200	1025	6xØ19 (M16)	779.5	H140C
250-315/450/L	B	300	250	250	165	850	810	530	525	500	1821	1700	1370	165	200	1025	6xØ19 (M16)	810.5	H140C
250-315/550/L	B	300	250	250	165	850	810	530	525	500	1887	1700	1370	165	200	1025	6xØ19 (M16)	965.4	H160C
250-315/750/L	B	300	250	250	165	850	810	530	525	500	1992	1700	1370	165	200	1025	6xØ19 (M16)	1055	H180C
250-400/750/L	B	300	250	200	165	860	810	770	565	560	2232	2000	1670	165	250	1125	6xØ26 (M20)	1166	H180D
250-400/900/L	B	300	250	200	165	860	810	770	565	560	2232	2000	1670	165	250	1125	6xØ26 (M20)	1261	H180D
250-400/1100/L	B	300	250	200	165	860	810	770	585	560	2376	2250	1920	165	250	1145	6xØ26 (M20)	1548	H200A
250-400/1320/L	B	300	250	200	165	860	810	770	585	560	2376	2250	1920	165	250	1145	6xØ26 (M20)	1604	H200A
250-400/1600/L	B	300	250	200	165	860	810	770	585	560	2376	2250	1920	165	250	1145	6xØ26 (M20)	1674	H200A
250-400/2000/L	B	300	250	200	165	860	810	770	585	560	2525	2250	1920	165	250	1145	6xØ26 (M20)	1841	H225A
250-500/1600/L	B	300	250	200	165	860	810	770	635	670	2376	2250	1920	165	250	1305	6xØ26 (M20)	1748	H200A
250-500/2000/L	B	300	250	200	165	860	810	770	635	670	2525	2250	1920	165	250	1305	6xØ26 (M20)	1915	H225A
250-500/2500/L	B	300	250	200	165	860	810	770	635	670	2525	2250	1920	165	250	1305	6xØ26 (M20)	2271	H225A
250-500/3150/L	B	300	250	200	165	1000	930	770	675	670	2685	2450	2120	165	250	1345	6xØ29 (M24)	2431	H250A
250-500/3550/L	B	300	250	200	165	1000	930	770	675	670	2685	2450	2120	165	250	1345	6xØ29 (M24)	2481	H250A
300-350/750A/L	B	350	300	250	200	960	910	800	620	600	2362	2150	1750	200	300	1220	6xØ26 (M20)	1343	N150A
300-350/750/L	B	350	300	250	200	960	910	800	620	600	2362	2150	1750	200	300	1220	6xØ26 (M20)	1343	N150A
300-350/900/L	B	350	300	250	200	960	910	800	620	600	2362	2150	1750	200	300	1220	6xØ26 (M20)	1438	N150A
300-350/1100/L	B	350	300	250	200	960	910	800	640	600	2506	2400	2000	200	300	1240	6xØ26 (M20)	1731	N176A
300-400/1100/L	B	350	300	250	200	960	910	821	640	600	2527	2400	2000	200	300	1240	6xØ26 (M20)	1735	N176A
300-400/1320/L	B	350	300	250	200	960	910	821	640	600	2527	2400	2000	200	300	1240	6xØ26 (M20)	1791	N176A
300-400/1600/L	B	350	300	250	200	960	910	821	640	600	2527	2400	2000	200	300	1240	6xØ26 (M20)	1861	N176A
300-400/2000/L	B	350	300	250	200	960	910	821	640	600	2676	2400	2000	200	300	1240	6xØ26 (M20)	2022	N185A
300-400/2500/L	B	350	300	250	200	960	910	821	640	600	2676	2400	2000	200	300	1240	6xØ26 (M20)	2378	N185A
300-450/1600/L	B	350	300	250	200	960	910	821	665	630	2527	2400	2000	200	300	1295	6xØ26 (M20)	1903	N176A
300-450/2000/L	B	350	300	250	200	960	910	821	665	630	2676	2400	2000	200	300	1295	6xØ26 (M20)	2063	N185A
300-450/2500/L	B	350	300	250	200	960	910	821	665	630	2676	2400	2000	200	300	1295	6xØ26 (M20)	2419	N185A
300-450/3150/L	B	350	300	250	200	1000	930	821	705	630	2836	2550	2150	200	300	1335	6xØ29 (M24)	2547	N212A

NOTE: Pumps with flanges according to EN 1092-2 as standard.

Nscc200-300\_4p50-en\_e\_td

Available ASME B16.5 version on request. For flanges dimensions see drawing.

## e-NSC SERIES FORCES AND MOMENTS AT PUMP FLANGES



Forces at the pump flanges calculated according to EN ISO 5199:2002.

When the applied loads do not all attain the maximum values allowed, one of these loads may exceed the normal limit, provided that the following supplementary conditions are satisfied:

- any component of a force or of a moment shall be limited to 1,4 times the maximum allowable value;
- the actual forces and moments acting on each flange are governed by the following formula:

$$\left(\frac{\sum |F_{x,y,z}|}{\sum |F_{max}|}\right)^2 + \left(\frac{\sum |M_{x,y,z}|}{\sum |M_{max}|}\right)^2 \leq 2$$

### Cast iron casing EN-GJL-250 / EN-GJS-400

Size	Suction									Discharge								
	DNS	F <sub>x</sub> <sub>max</sub> [N]	F <sub>y</sub> <sub>max</sub> [N]	F <sub>z</sub> <sub>max</sub> [N]	ΣF <sub>max</sub> [N]	M <sub>x</sub> <sub>max</sub> [Nm]	M <sub>y</sub> <sub>max</sub> [Nm]	M <sub>z</sub> <sub>max</sub> [Nm]	ΣM <sub>max</sub> [Nm]	DNS	F <sub>x</sub> <sub>max</sub> [N]	F <sub>y</sub> <sub>max</sub> [N]	F <sub>z</sub> <sub>max</sub> [N]	ΣF <sub>max</sub> [N]	M <sub>x</sub> <sub>max</sub> [Nm]	M <sub>y</sub> <sub>max</sub> [Nm]	M <sub>z</sub> <sub>max</sub> [Nm]	ΣM <sub>max</sub> [Nm]
32-...	50	580	530	480	925	490	350	405	730	32	320	300	370	575	385	265	300	560
40-...	65	740	650	600	1155	525	385	420	775	40	390	350	440	685	455	315	370	670
50-...	65	740	650	600	1155	525	385	420	775	50	530	480	580	925	490	350	405	730
65-...	80	880	790	720	1385	560	405	455	830	65	650	600	740	1155	525	385	420	775
80-...	100	1180	1050	950	1845	615	440	510	915	80	790	720	880	1385	560	405	455	830
100-...	125	1390	1250	1120	2180	735	525	665	1125	100	1050	950	1180	1845	615	440	510	915
125-...	150	1750	1580	1420	2755	875	615	720	1290	125	1250	1120	1390	2180	735	525	665	1125
150-...	200	2350	2100	1890	3675	1140	805	930	1680	150	1580	1420	1750	2755	875	615	720	1290
200-...	250	3340	2980	2700	5230	1780	1260	1460	2625	200	2100	1890	2350	3675	1140	805	930	1680
250-...	300	4000	3580	3220	6260	2420	1720	1980	3570	250	2980	2700	3340	5230	1780	1260	1460	2625
300-...	350	4660	4180	3760	7305	3100	2200	2540	4575	300	3580	3220	4000	6260	2420	1720	1980	3570

NSC\_load-en\_a\_td

### Stainless steel casing (1.4408) - Duplex (1.4517)

Size	Suction									Discharge								
	DNS	F <sub>x</sub> <sub>max</sub> [N]	F <sub>y</sub> <sub>max</sub> [N]	F <sub>z</sub> <sub>max</sub> [N]	ΣF <sub>max</sub> [N]	M <sub>x</sub> <sub>max</sub> [Nm]	M <sub>y</sub> <sub>max</sub> [Nm]	M <sub>z</sub> <sub>max</sub> [Nm]	ΣM <sub>max</sub> [Nm]	DNS	F <sub>x</sub> <sub>max</sub> [N]	F <sub>y</sub> <sub>max</sub> [N]	F <sub>z</sub> <sub>max</sub> [N]	ΣF <sub>max</sub> [N]	M <sub>x</sub> <sub>max</sub> [Nm]	M <sub>y</sub> <sub>max</sub> [Nm]	M <sub>z</sub> <sub>max</sub> [Nm]	ΣM <sub>max</sub> [Nm]
50-315	65	1470	1300	1190	2295	1050	770	840	1550	50	1050	950	1160	1835	980	700	805	1450
65-...	80	1750	1580	1440	2765	1120	805	910	1655	65	1300	1190	1470	2295	1050	770	840	1550
80-...	100	2350	2100	1890	3675	1225	875	1015	1820	80	1580	1440	1750	2765	1120	805	910	1655
100-...	125	2770	2490	2240	4350	1470	1050	1330	2245	100	2100	1890	2350	3675	1230	880	1020	1830
125-...	150	3500	3150	2840	5500	1750	1225	1435	2575	125	2490	2240	2770	4350	1470	1050	1330	2245
150-...	200	4690	4200	3780	7345	2275	1610	1855	3350	150	3150	2840	3500	5500	1750	1225	1435	2575
200-...	250	5850	5220	4730	9160	3115	2205	2555	4595	200	4200	3780	4690	7345	2275	1610	1855	3350
250-...	300	7000	6270	5640	10965	4235	3010	3465	6250	250	5220	4730	5850	9160	3115	2205	2555	4595
300-...	350	8160	7320	6580	12790	5425	3850	4445	8005	300	6270	5640	7000	10965	4235	3010	3465	6250

NSC\_load\_ss-en\_a\_td

# **NSC..H**

## **e-NSC WITH HYDROVAR**

## NSC..H SERIES

### NSC WITH HYDROVAR

#### Background and context

For all pumping needs in commercial or residential building and in industry applications, the demand for intelligent pumping systems is constantly growing. Controlled systems offer many advantages: reduced operating costs for the lifetime of the pump, lower environmental impact, longer lifetime of piping systems and networks.

For this reason, Lowara has developed the NSC..H: an intelligent pumping system which assures high level performance with energy consumption tailored to the system's demand.

#### Benefits of e-NSC with HYDROVAR

**Saving:** NSC..H transforms the NSC pumps into variable speed intelligent pumping systems. Thanks to the HYDROVAR, the speed of each pump varies so as to maintain a constant flow, a constant pressure, or a differential pressure. In doing so, at any point in time, the pump only receives the energy required. This in turns allows for considerable savings, especially for systems that have varying loads throughout the day.

**Easy installation and space-saving:** NSC..H saves time and space during installation. The Hydrovar is delivered already mounted on the motor (for models up to 22kW). The hydrovar is kept cool by the motor fan and does not require a control panel. In order to function, only fuses on the supply line are needed (Check your local electrical installation regulations).

**Standard motors:** NSC..H models are fitted with three-phase standard TEFC motors with insulation class 155 (F).

#### Identification code:

NSC..H models are identified by the letter “H” and the last two characters.

Examples:

NSCE**H**80-160/22/P45RCC4 /**2**

NSCE**H**50-250/22/P45RCS4 /**3**

NSCS**H**50-200/185/P25VCSZ /**4**

**H** = with integrated HYDROVAR

**/2** = HYDROVAR HVL**2**.022 1~ 208-240 V (50/60 Hz)

**/3** = HYDROVAR HVL**3**.022 3~ 208-240 V (50/60 Hz)

**/4** = HYDROVAR HVL**4**.022 3~ 380-460 V (50/60 Hz)

#### Key Features of the HYDROVAR

- **No need for additional pressure sensors:**

The NSC..H is fitted with a pressure transmitter or differential pressure transmitters, depending on the application.

- **No need for special pumps or motors.**

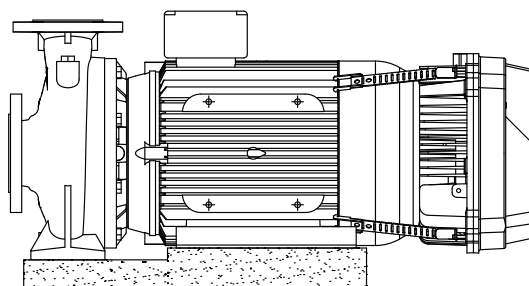
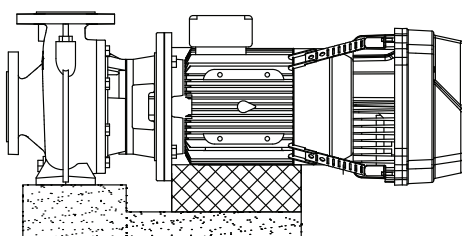
- **NSC..H is already pre-wired.**

- **No need for bypass or safety systems:**

The NSC..H will immediately switch off when demand drops to zero or when it exceeds maximum pump capacity; thus making installation of additional safety devices unnecessary.

- **Anti-condensation device:**

The HYDROVAR is fitted with anti-condensation devices which switch on when the pump is in standby in order to prevent condensation forming in the unit.



NSC-HVL\_A\_SC

## NSC..H SERIES

### e-NSC WITH HYDROVAR

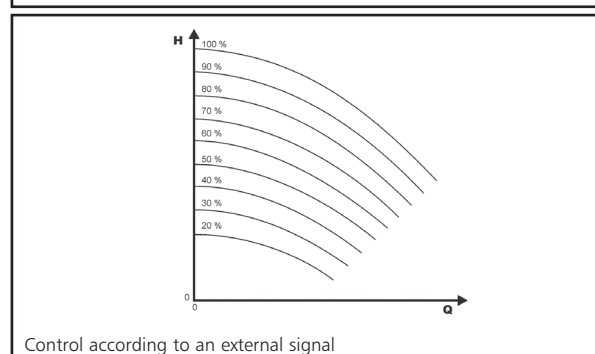
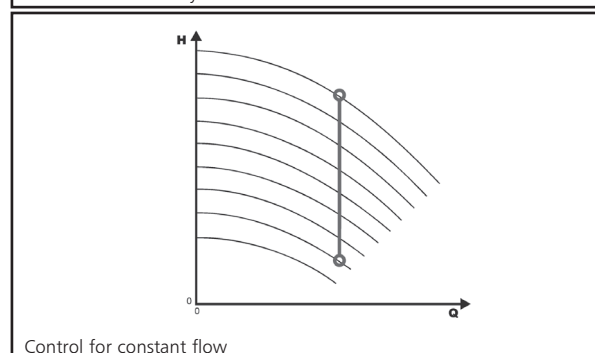
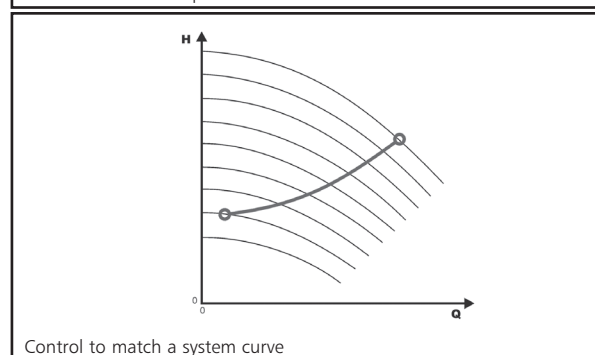
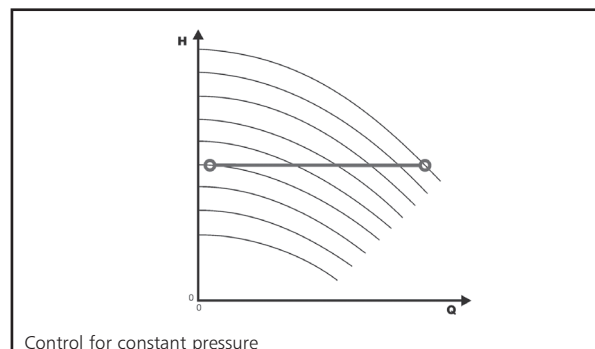
The basic function of the HYDROVAR device is to control the pump to meet the system demands.

#### HYDROVAR performs these functions by:

- 1) Measuring the system pressure or flow via a transmitter mounted on the pump's delivery side.
- 2) Calculating the motor speed to maintain the correct flow or pressure.
- 3) Sending out a signal to the pump to start the motor, increase speed, decrease speed or stop.
- 4) In the case of multiple pump installations, HYDROVAR will automatically provide for the cyclic changeover of the pumps' starting sequence.

In addition to these basic functions, HYDROVAR can perform controls only manageable by the most advanced computerized control systems. Some examples are:

- Stop the pump(s) at zero demand.
- Stop the pump(s) in case of water failure on the suction side (protection against dry running).
- Stop the pump if the required delivery exceeds the pump's capacity (protection against cavitation caused by excessive demand), or automatically switch on the next pump in a multiple series.
- Protect the pump and motor from over-voltage, under-voltage, overload, and earth fault.
- Vary the pump speed: acceleration and deceleration time.
- Compensate for increased flow resistance at high flow rates.
- Conduct automatic tests at set intervals.
- Monitor the converter and motor operating hours.
- Display the energy consumption (kWh).
- Display all functions on an LCD in different languages (Italian, English, French, German, Spanish, Portuguese, Dutch, etc...).
- Send a signal to a remote control system which is proportional to the pressure and frequency.
- Communicate with external control system via Modbus (RS 485 interface) and Bacnet as standard.



## NSC..H SERIES HYDROVAR (ErP 2009/125/EC)

From 1 July 2021 in accordance with the new **Regulations (EU) 2019/1781** and **2021/341** the **variance speed drives** with **three-phase input/output current**, rated voltage between **100 V** and **1000 V**, rated for operating with motors included in the same regulation (**0,12- 1000 kW**), must have efficiency level **IE2**.

The tables below also contain the mandatory information pursuant to Annex I, section 4, of the Regulations.

PN kW	Phase	UNin V	Pa kVA	Power losses (PL) with 10 KHz frequency % Pa (% rated speed; % rated torque)										IE
				stand-by	0;25	0;50	0;100	50;25	50;50	50;100	90;50	90;100		
1,5	~1	208-240	not included in regulation										2	
2,2														
3														
4														
1,5	~3	208-240	2,45	0,4%	1,3%	1,6%	1,9%	1,4%	1,7%	2,5%	2,0%	3,1%		
2,2			3,46	0,3%	1,3%	1,6%	2,4%	1,4%	1,8%	2,7%	2,0%	3,3%		
3			5,15	0,2%	1,1%	1,4%	2,2%	1,3%	1,7%	2,6%	1,9%	3,2%		
4			6,00	0,2%	1,1%	1,3%	2,1%	1,3%	1,6%	2,5%	1,9%	3,1%		
5,5			7,90	0,1%	0,9%	1,1%	1,8%	1,0%	1,4%	2,4%	1,7%	3,2%		
7,5			10,1	0,1%	0,7%	0,9%	1,5%	0,8%	1,1%	2,1%	1,4%	3,1%		
11			15,1	0,1%	0,7%	0,9%	1,7%	0,8%	1,2%	2,3%	1,4%	3,0%		
1,5			380-460	2,56	0,4%	1,2%	1,5%	1,8%	1,3%	1,6%	2,1%	1,6%		2,3%
2,2		3,67		0,3%	1,2%	1,3%	1,7%	1,3%	1,5%	2,1%	1,6%	2,3%		
3		5,00		0,2%	1,1%	1,1%	1,5%	1,2%	1,4%	2,1%	1,5%	2,2%		
4		6,20		0,2%	1,0%	0,9%	1,4%	1,1%	1,4%	2,0%	1,4%	2,2%		
5,5		8,30		0,2%	0,8%	0,8%	1,3%	0,9%	1,2%	1,9%	1,3%	2,2%		
7,5		10,7		0,1%	0,7%	0,6%	1,2%	0,7%	1,0%	1,8%	1,2%	2,3%		
11		15,9		0,1%	0,6%	0,6%	1,2%	0,7%	1,0%	1,8%	1,2%	2,2%		
15		21,5		0,1%	0,5%	0,6%	1,2%	0,6%	0,9%	1,6%	1,1%	2,0%		
18,5		25,6		0,1%	0,5%	0,6%	1,2%	0,6%	0,8%	1,6%	1,0%	1,9%		
22		29,4	0,0%	0,5%	0,7%	1,3%	0,6%	0,9%	1,6%	1,0%	2,1%			

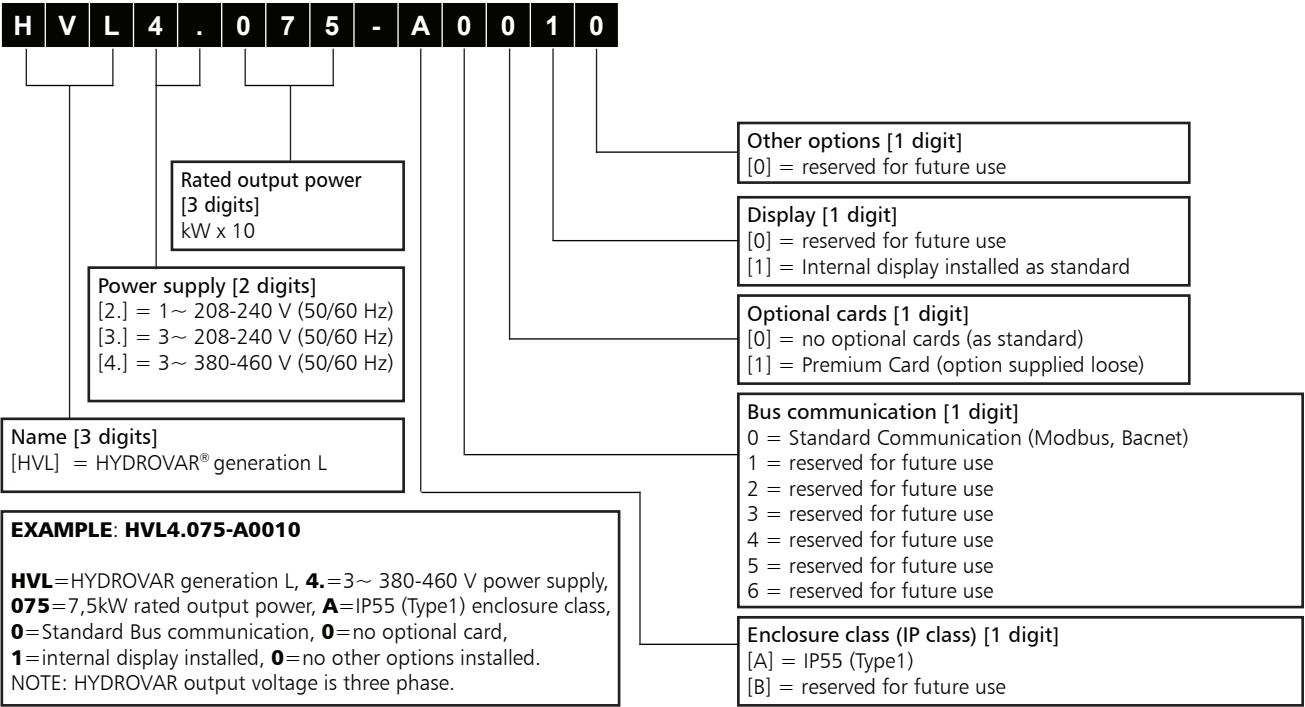
hvl-pl-en\_a\_te

P <sub>N</sub> kW	~	U <sub>Nin</sub> V	Manufacturer	f <sub>Nin</sub> Hz	I <sub>Nin</sub> max A	U <sub>nout</sub> V	f <sub>Nout</sub> Hz	I <sub>nout</sub> max A	Operating conditions*		
			Xylem Service Italia Srl Reg. No. 07520560967 Montecchio Maggiore (VI) - Italia						Altitude	T.amb	ATEX
			Model						asl m	min/max °C	
1,5	1	208-240	HVL 2.015-..	50/60	11,6	0-100% U <sub>Nin</sub>	15-70	7,5	≤1000	-15/40	No
2,2			HVL 2.022-..		1			15,1			
3			HVL 2.030-..		22,3			14,3			
4			HVL 2.040-..		27,6			16,7			
1,5	3	208-240	HVL 3.015-..		7			7,5			
2,2			HVL 3.022-..		9,1			10			
3			HVL 3.030-..		13,3			14,3			
4			HVL 3.040-..		16,5			16,7			
5,5			HVL 3.055-..		23,5			24,2			
7,5			HVL 3.075-..		29,6			31			
11			HVL 3.110-..		3			43,9			
15			HVL 4.015-..		3,9			4,1			
2,2		380-460	HVL 4.022-..		5,3			5,7			
3			HVL 4.030-..		7,2			7,3			
4			HVL 4.040-..		10,1			10			
5,5			HVL 4.055-..		12,8			13,5			
7,5			HVL 4.075-..		16,9			17			
11			HVL 4.110-..		24,2			24			
15			HVL 4.150-..		33,3			32			
18,5			HVL 4.185-..		38,1			38			
22			HVL 4.220-..		44,7			44			

\*up to 2000 meters or maximum 55°C reducing the supplied power

hvl-en\_b\_te

**HYDROVAR HVL  
IDENTIFICATION CODE**



**DIMENSIONS AND WEIGHTS**



TYPE	MODELS			DIMENSIONS (mm)				WEIGHT Kg
	/2	/3	/4	L	B	H	X	
SIZE A	HVL2.015 ÷ 2.022	HVL3.015 ÷ 3.022	HVL4.015 ÷ 4.040	216	205	170	243	5,6
SIZE B	HVL2.030 ÷ 2.040	HVL3.030 ÷ 3.055	HVL4.055 ÷ 4.110	276	265	185	305	10,5
SIZE C	-	HVL3.075 ÷ 3.110	HVL4.150 ÷ 4.220	366	337	200	407	15,6

HVL\_dim-en\_b\_td

## HYDROVAR HVL EMC COMPATIBILITY

### EMC requirements

HYDROVAR fulfills the product standard EN61800-3:2004 + A1:2012, which defines categories (C1 to C4) for device application areas.

Depending on the motor cable length, a classification of HYDROVAR by category (based on EN61800-3) is reported in the following tables:

HVL	HYDROVAR classification by categories based on EN61800-3
2.015 ÷ 2.040	C1 (*)
3.015 ÷ 3.110	C2 (*)
4.015 ÷ 4.220	C2 (*)

(\*) 0,75 motor cable length; contact Xylem for further information

En-Rev\_A

## CARD

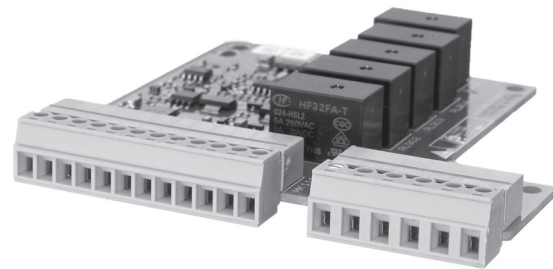
### Premium Card HYDROVAR

For the NSC..H the Premium Card comes fitted as standard on the standalone HYDROVAR.

This allows to control up to five fix speed pumps via an external panel.

The Premium Card will allow additional features listed below:

- 2 additional Analog Inputs
- 2 Analog Outputs
- 1 additional digital input
- 5 relays.



## OPTIONAL COMPONENTS

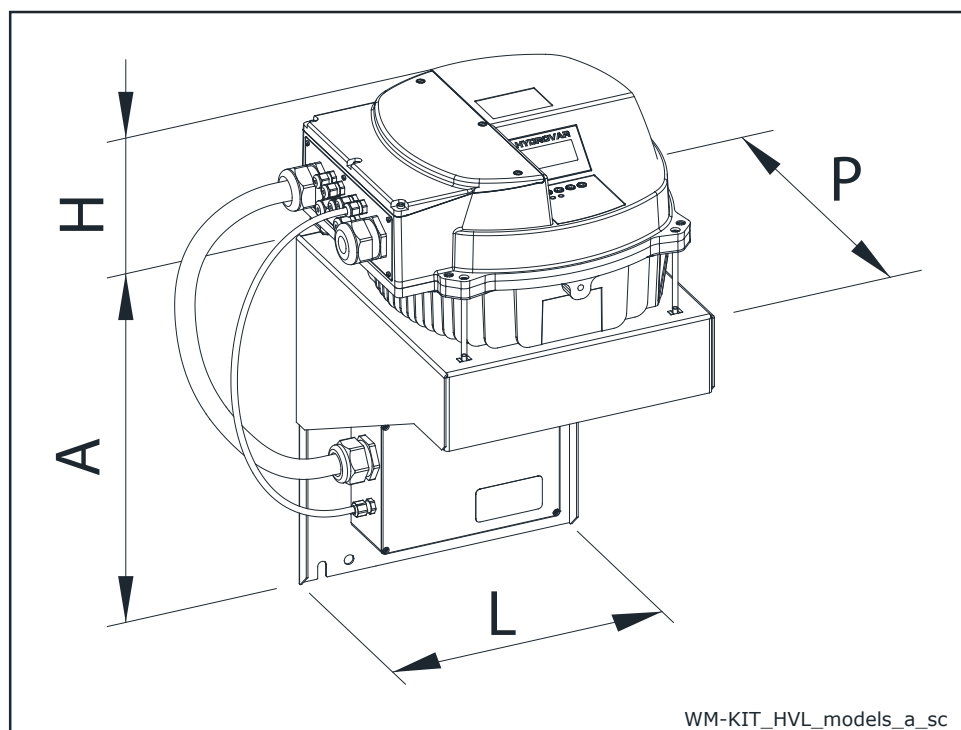
### Sensors

The following sensors are available for HYDROVAR:

- Pressure-transducer
- Differential pressure-transducer
- Temperature-sensor
- Flow indicator (orifice plate, inductive flow meter)
- Level-sensor.

## HYDROVAR HVL (WALL MOUNTING KIT) DIMENSIONS AND WEIGHTS

As an option a HYDROVAR wall mounting kit is also available, this is used where mounting on the pump unit is impossible or where you would like the controls in another location, these are available for the new generation HYDROVAR HVL 2.015-4.220 (22 kW). The speed of the cooling fan modulates with the HYDROVAR usage which optimizes energy consumption and also reduces noise.



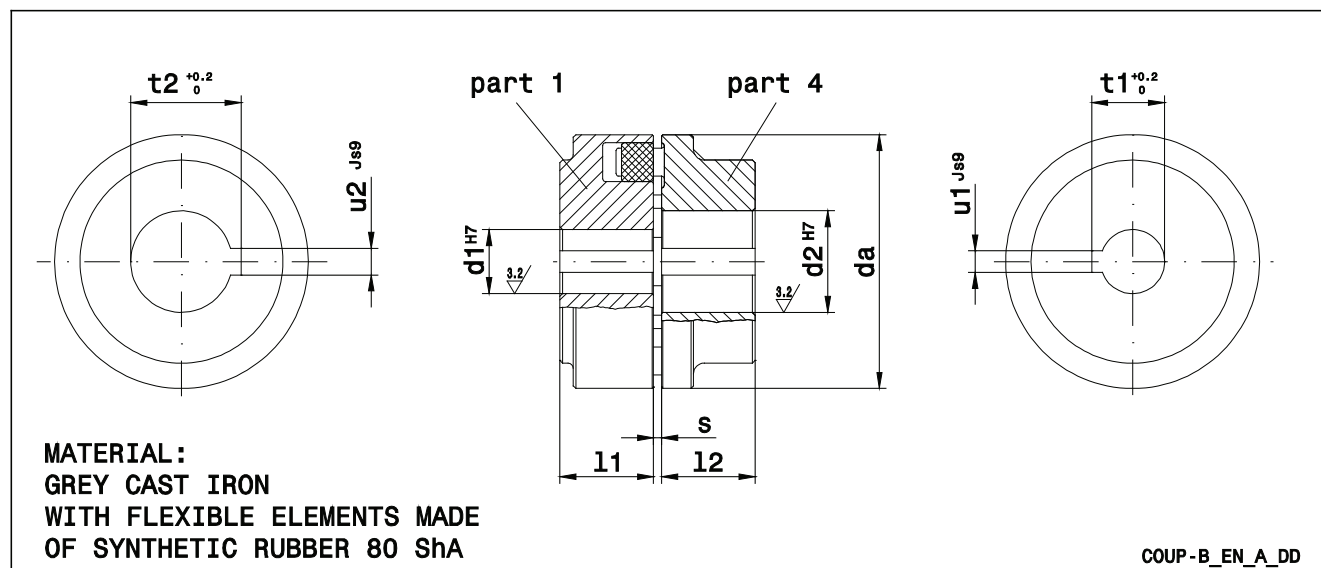
WM KIT TYPE	kW	WM KIT POWER SUPPLY	HVL SIZE	DIMENSIONS (mm)				WEIGHT (kg)	
				A	H	L	P	HVL	WM KIT
WM KIT HVL 2.015	1,5	1~ 230V	A	220	170	202	232	5,6	2,6
WM KIT HVL 2.022	2,2			220	170	202	232	5,6	2,6
WM KIT HVL 2.030	3		B	240	175	258	290	10,5	8,2
WM KIT HVL 2.040	4			320	175	288	305	10,5	5,4
WM KIT HVL 3.015	1,5	3~ 230V	A	220	170	202	232	5,6	2,6
WM KIT HVL 3.022	2,2			220	170	202	232	5,6	2,6
WM KIT HVL 3.030	3		B	240	175	258	290	10,5	8,2
WM KIT HVL 3.040	4			240	175	258	290	10,5	8,2
WM KIT HVL 3.055	5,5			240	175	258	290	10,5	8,2
WM KIT HVL 3.075	7,5		C	400	200	325	365	15,6	11,6
WM KIT HVL 3.110	11			400	200	325	365	15,6	11,6
WM KIT HVL 4.015	1,5	3~ 400V	A	240	170	258	290	5,6	8,2
WM KIT HVL 4.022	2,2			240	170	258	290	5,6	8,2
WM KIT HVL 4.030	3			240	170	258	290	5,6	8,2
WM KIT HVL 4.040	4			240	170	258	290	5,6	8,2
WM KIT HVL 4.055	5,5		B	240	175	258	290	10,5	8,2
WM KIT HVL 4.075	7,5			240	175	258	290	10,5	8,2
WM KIT HVL 4.110	11		C	320	175	288	305	10,5	5,4
WM KIT HVL 4.150	15			400	200	325	365	15,6	11,6
WM KIT HVL 4.185	18,5			400	200	325	365	15,6	11,6
WM KIT HVL 4.220	22			400	200	325	365	15,6	11,6

WM-KIT\_HVL\_models-EN\_b\_td



# ACCESSORIES

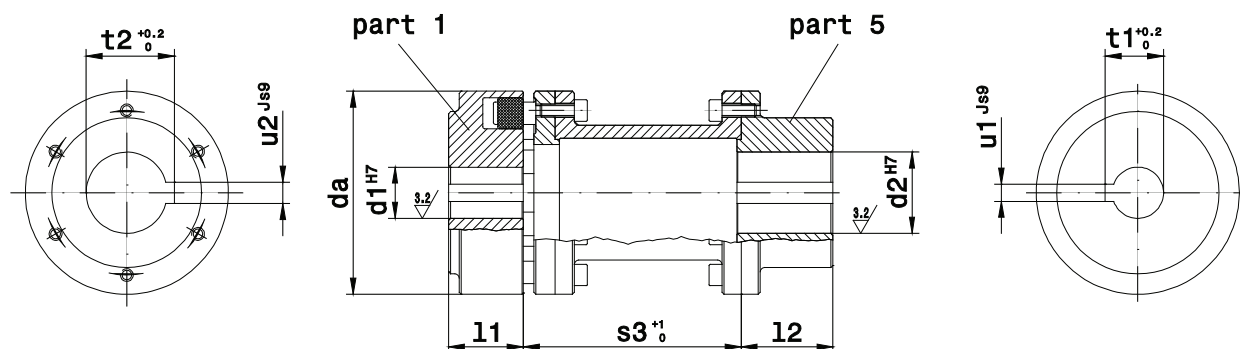
## FLEXIBLE COUPLING DIMENSIONS



REF.	DENOMINATION	DIMENSIONS (mm)									
		d <sub>a</sub>	PART 1					PART 4			
			PUMP-SIDE HALF COUPLING					MOTOR-SIDE HALF COUPLING			
			SIZE x d <sub>1</sub> x d <sub>2</sub>	d <sub>1</sub> <sup>H7</sup>	l <sub>1</sub>	u <sub>1</sub> <sup>js9</sup>	t <sub>1 0</sub> <sup>+0.2</sup>	s	d <sub>2</sub> <sup>H7</sup>	l <sub>2</sub>	u <sub>2</sub> <sup>js9</sup>
B68A	B 68 x 24 x 14	68	24	20	8	27,3	2 ÷ 4	14	20	5	16,3
B68B	B 68 x 24 x 19	68	24	20	8	27,3	2 ÷ 4	19	20	6	21,8
B68C	B 68 x 24 x 24	68	24	20	8	27,3	2 ÷ 4	24	20	8	27,3
B80A	B 80 x 24 x 28	80	24	30	8	27,3	2 ÷ 4	28	30	8	31,3
B95A	B 95 x 24 x 38	95	24	35	8	27,3	2 ÷ 4	38	35	10	41,3
B95B	B 95 x 24 x 42	95	24	35	8	27,3	2 ÷ 4	42	35	12	45,3
B95C	B 95 x 32 x 28	95	32	35	10	35,3	2 ÷ 4	28	35	8	31,3
B95D	B 95 x 32 x 38	95	32	35	10	35,3	2 ÷ 4	38	35	10	41,3
B95E	B 95 x 32 x 42	95	32	35	10	35,3	2 ÷ 4	42	35	12	45,3
B95F	B 95 x 42 x 42	95	42	35	12	45,3	2 ÷ 4	42	35	12	45,3
B110A	B 110 x 24 x 48	110	24	40	8	27,3	2 ÷ 4	48	40	14	51,8
B110B	B 110 x 32 x 48	110	32	40	10	35,3	2 ÷ 4	48	40	14	51,8
B110C	B 110 x 42 x 42	110	42	40	12	45,3	2 ÷ 4	42	40	12	45,3
B110D	B 110 x 42 x 48	110	42	40	12	45,3	2 ÷ 4	48	40	14	51,8
B110E	B 110 x 32 x 42	110	32	35	10	35,3	2 ÷ 4	42	35	12	45,3
B125A	B 125 x 32 x 48	125	32	50	10	35,3	2 ÷ 4	48	50	14	51,8
B125B	B 125 x 32 x 55	125	32	50	10	35,3	2 ÷ 4	55	50	16	59,3
B125C	B 125 x 42 x 55	125	42	50	12	45,3	2 ÷ 4	55	50	16	59,3
B125D	B 125 x 24 x 55	125	24	50	8	27,3	2 ÷ 4	55	50	16	59,3
B140A	B 140 x 32 x 60	140	32	55	10	35,3	2 ÷ 4	60	55	18	64,4
B140B	B 140 x 42 x 60	140	42	55	12	45,3	2 ÷ 4	60	55	18	64,4
B140C	B 140 x 60 x 55	140	60	70	18	64,4	2 ÷ 4	55	50	16	59,3
B140D	B 140 x 60 x 60	140	60	70	18	64,4	2 ÷ 4	60	55	18	64,4
B160A	B 160 x 32 x 65	160	32	60	10	35,3	2 ÷ 6	65	60	18	69,4
B160B	B 160 x 42 x 65	160	42	60	12	45,3	2 ÷ 6	65	60	18	69,4
B160C	B 160 x 60 x 65	160	60	60	18	64,4	2 ÷ 6	65	60	18	69,4
B180A	B 180 x 42 x 65	180	42	70	12	45,3	2 ÷ 6	65	60	18	69,4
B180B	B 180 x 42 x 75	180	42	70	12	45,3	2 ÷ 6	75	70	20	79,9
B180C	B 180 x 60 x 75	180	60	70	18	64,4	2 ÷ 6	75	70	20	79,9
B200A	B 200 x 60 x 80	200	60	80	18	64,4	2 ÷ 6	80	80	22	85,4
B225A	B 225 x 60 x 80	225	60	90	18	64,4	2 ÷ 6	80	90	22	85,4
B250A	B 250 x 60 x 100	250	60	100	18	64,4	3 ÷ 8	100	100	28	106,4

Coup-b-en\_c\_td

## SPACER COUPLING DIMENSIONS



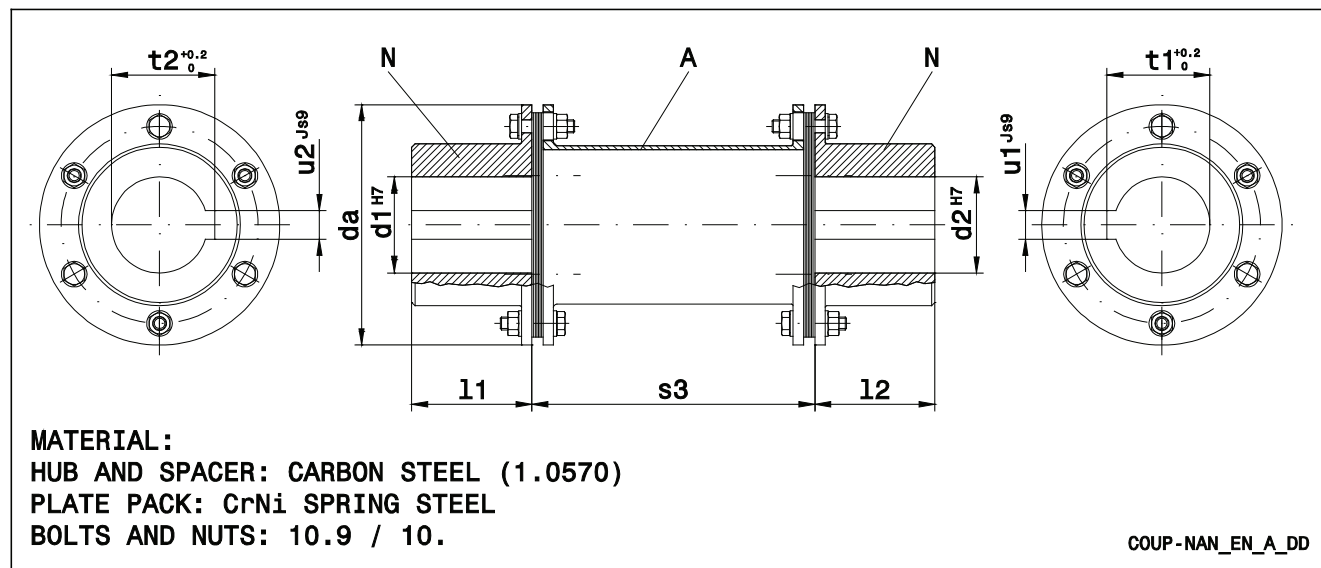
**MATERIAL:**  
**GREY CAST IRON**  
**WITH FLEXIBLE ELEMENTS MADE**  
**OF SYNTHETIC RUBBER 80 ShA**

COUP-H\_EN\_A\_DD

REF.	DENOMINATION	DIMENSIONS (mm)									
		da	s <sub>3</sub> 0 <sup>+1</sup>	PART 1				PART 5			
	SIZE x l x d <sub>1</sub> x d <sub>2</sub>			PUMP-SIDE HALF COUPLING				MOTOR-SIDE HALF COUPLING			
				d <sub>1</sub> H7	l <sub>1</sub>	u <sub>1</sub> js9	t <sub>1</sub> 0 <sup>+0.2</sup>	d <sub>2</sub> H7	l <sub>2</sub>	u <sub>2</sub> js9	t <sub>2</sub> 0 <sup>+0.2</sup>
H80A	H 80-100 x 24 x 19	80	100	24	30	8	27,3	19	45	6	21,8
H80B	H 80-100 x 24 x 24	80	100	24	30	8	27,3	24	45	8	27,3
H80C	H 80-100 x 24 x 28	80	100	24	30	8	27,3	28	45	8	31,3
H80D	H 80-100 x 24 x 14	80	100	24	30	8	27,3	14	45	5	16,3
H80E	H 80-140 x 24 x 24	80	140	24	30	8	27,3	24	45	8	27,3
H80F	H 80-140 x 24 x 28	80	140	24	30	8	27,3	28	45	8	31,3
H80G	H 80-140 x 32 x 28	80	140	32	30	10	35,3	28	45	8	31,3
H95A	H 95-100 x 24 x 38	95	100	24	35	8	27,3	38	45	10	41,3
H95B	H 95-100 x 24 x 42	95	100	24	35	8	27,3	42	45	12	45,3
H95C	H 95-140 x 32 x 28	95	140	32	35	10	35,3	28	45	8	31,3
H95D	H 95-140 x 32 x 38	95	140	32	35	10	35,3	38	45	10	41,3
H95E	H 95-140 x 32 x 42	95	140	32	35	10	35,3	42	45	12	45,3
H95F	H 95-140 x 42 x 42	95	140	42	35	12	45,3	42	45	12	45,3
H95G	H 95-140 x 24 x 42	95	140	24	35	8	27,3	42	45	12	45,3
H95H	H 95-140 x 24 x 38	95	140	24	35	8	27,3	38	45	10	41,3
H110A	H 110-100 x 24 x 48	110	100	24	40	8	27,3	48	50	14	51,8
H110B	H 110-140 x 32 x 48	110	140	32	40	10	35,3	48	50	14	51,8
H110C	H 110-140 x 42 x 48	110	140	42	40	12	45,3	48	50	14	51,8
H110D	H 110-140 x 24 x 48	110	140	24	40	8	27,3	48	50	14	51,8
H110E	H 110-140 x 32 x 42	110	140	32	40	10	35,3	42	45	12	45,3
H110F	H 110-140 x 42 x 42	110	140	42	40	12	45,3	42	45	12	45,3
H125A	H 125-100 x 24 x 55	125	100	24	50	8	27,3	55	50	16	59,3
H125B	H 125-140 x 32 x 48	125	140	32	50	10	35,3	48	50	14	51,8
H125C	H 125-140 x 32 x 55	125	140	32	50	10	35,3	55	50	16	59,3
H125D	H 125-140 x 42 x 55	125	140	42	50	12	45,3	55	50	16	59,3
H125E	H 125-200 x 42 x 48	125	200	42	50	12	45,3	48	70	14	51,8
H125F	H 125-200 x 42 x 55	125	200	42	50	12	45,3	55	70	16	59,3
H125G	H 125-140 x 24 x 55	125	140	24	50	8	27,3	55	50	16	59,3
H125H	H 125-200 x 42 x 42	125	200	42	50	12	45,3	42	45	12	45,3
H140A	H 140-140 x 32 x 60	140	140	32	55	10	35,3	60	65	18	64,4
H140B	H 140-140 x 42 x 60	140	140	42	55	12	45,3	60	65	18	64,4
H140C	H 140-200 x 42 x 60	140	200	42	55	12	45,3	60	65	18	64,4
H140D	H 140-250 x 60 x 60	140	250	60	60	18	64,4	60	65	18	64,4
H160A	H 160-140 x 32 x 65	160	140	32	60	10	35,3	65	70	18	69,4
H160B	H 160-140 x 42 x 65	160	140	42	60	12	45,3	65	70	18	69,4
H160C	H 160-200 x 42 x 65	160	200	42	60	12	45,3	65	70	18	69,4
H160D	H 160-250 x 60 x 65	160	250	60	60	18	64,4	65	80	18	69,4
H180A	H 180-140 x 42 x 65	180	140	42	70	12	45,3	65	80	18	69,4
H180B	H 180-140 x 42 x 75	180	140	42	70	12	45,3	75	80	20	79,9
H180C	H 180-200 x 42 x 75	180	200	42	70	12	45,3	75	80	20	79,9
H180D	H 180-250 x 60 x 75	180	250	60	70	18	64,4	75	80	20	79,9
H200A	H 200-250 x 60 x 80	200	250	60	80	18	64,4	80	90	22	85,4
H225A	H 225-250 x 60 x 80	225	250	60	90	18	64,4	80	100	22	85,4
H250A	H 250-250 x 60 x 100	250	250	60	100	18	64,4	100	110	28	106,4

Coup-h\_en\_d\_td

## SPACER COUPLING DIMENSIONS



REF.	DENOMINATION	DIMENSIONS (mm)									
		da	s <sub>3</sub>	N				N			
	SIZE x l x d <sub>1</sub> x d <sub>2</sub>			PUMP-SIDE HALF COUPLING				MOTOR-SIDE HALF COUPLING			
				d <sub>1</sub> <sup>H7</sup>	l <sub>1</sub>	u <sub>1</sub> <sup>js9</sup>	t <sub>1</sub> <sup>+0.2</sup> <sub>0</sub>	d <sub>2</sub> <sup>H7</sup>	l <sub>2</sub>	u <sub>2</sub> <sup>js9</sup>	t <sub>2</sub> <sup>+0.2</sup> <sub>0</sub>
N135A	NAN 135-6 x 300 x 60 x 55	135	300	60	65	18	64,4	55	65	16	59,3
N135B	NAN 135-6 x 300 x 60 x 60	135	300	60	65	18	64,4	60	65	18	64,4
N135C	NAN 135-6 x 300 x 60 x 65	135	300	60	65	18	64,4	65	65	18	69,4
N150A	NAN 150-6 x 300 x 60 x 75	150	300	60	75	18	64,4	75	75	20	79,9
N176A	NAN 176-6 x 300 x 60 x 80	176	300	60	85	18	64,4	80	85	22	85,4
N185A	NAN 185-6 x 300 x 60 x 80	185	300	60	90	18	64,4	80	90	22	85,4
N212A	NAN 212-6 x 300 x 60 x 100	212	300	60	100	18	64,4	100	100	28	106,4

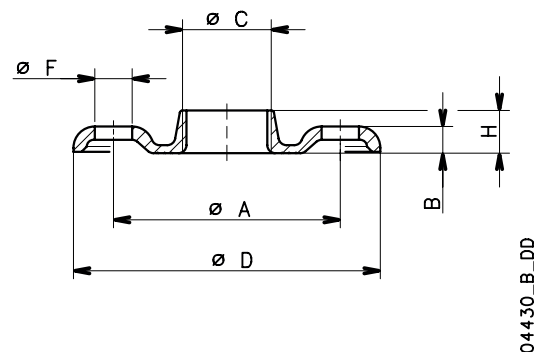
Coup-nan-en\_b\_td

## e-NSC SERIES

### DIMENSIONS OF ROUND THREADED COUNTERFLANGES ACCORDING TO EN 1092-1

DN	DIMENSIONS (mm)					HOLES		PN
	ø C	ø A	B	ø D	H	ø F	N°	
32	Rp 1 1/4	100	13	140	16	18	4	16
40	Rp 1 1/2	110	14	150	19	18	4	16
50	Rp 2	125	16	165	24	18	4	16
65	Rp 2 1/2	145	16	185	23	18	4	16
80	Rp 3	160	17	200	27	18	8	16
100	Rp 4	180	18	220	31	18	8	16

Nsc-ctf-tonde-f-en\_a\_td

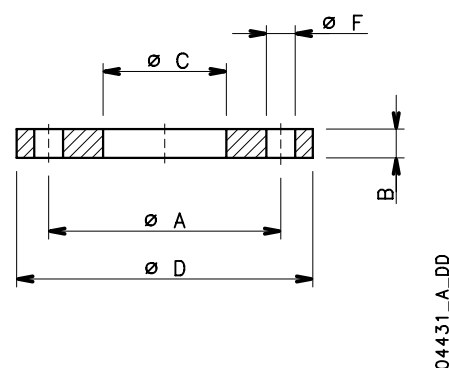


### DIMENSIONS OF ROUND WELD COUNTERFLANGES CORDING TO EN 1092-1

AC-

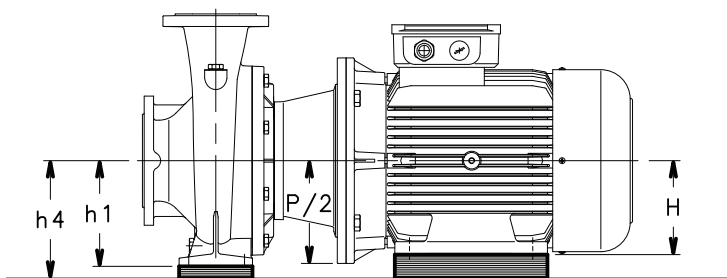
DN	DIMENSIONS (mm)				HOLES		PN
	ø C	ø A	B	ø D	ø F	N°	
65	77,5	145	20	185	18	4	16
80	90,5	160	20	200	18	8	16
100	116	180	22	220	18	8	16
125	141,5	210	22	250	18	8	16
150	170,5	240	24	285	22	8	16
200	221,5	295	24	340	22	12	16
250	276,5	355	26	405	26	12	16
300	327,5	410	28	460	26	12	16
350	359,5	470	30	520	26	16	16

Nsc-ctf-tonde-s-en\_b\_td



## NSCE 32 ÷ 80 SERIES, 2 POLES

### SHIM FOR PUMP AND MOTOR FEET



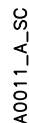
PUMP TYPE NSCE..2	DIMENSIONS (mm)				SHIM*	
	PUMP h1	MOTOR		h4	CODE	
		P/2	H		Pump	Motor
32-125/11	112	-	-	112	-	-
32-125/15	112	-	-	112	-	-
32-125/22	112	-	-	112	-	-
32-125/30	112	-	-	112	-	-
32-160/22	132	-	-	132	-	-
32-160/30	132	-	-	132	-	-
32-160/40	132	-	-	132	-	-
32-160/55	132	-	-	132	-	-
32-200/30	160	-	-	160	-	-
32-200/40	160	-	-	160	-	-
32-200/55	160	-	-	160	-	-
32-200/75	160	-	-	160	-	-
32-250/75	180	-	-	180	-	-
32-250/92	180	-	-	180	-	-
32-250/110	180	-	-	180	-	-
32-250/150	180	-	160	180	-	2 x 161407670
40-125/15	112	-	-	112	-	-
40-125/22	112	-	-	112	-	-
40-125/30	112	-	-	112	-	-
40-125/40	112	-	-	112	-	-
40-160/30	132	-	-	132	-	-
40-160/40	132	-	-	132	-	-
40-160/55	132	-	-	132	-	-
40-160/75	132	-	-	132	-	-
40-200/55	160	-	-	160	-	-
40-200/75	160	-	-	160	-	-
40-200/92	160	-	-	160	-	-
40-200/110	160	-	-	160	-	-
40-250/92	180	-	-	180	-	-
40-250/110	180	-	-	180	-	-
40-250/150	180	-	160	180	-	2 x 161407670
40-250/185	180	-	160	180	-	2 x 161407670
40-250/220	180	-	160	180	-	2 x 161407670
50-125/30	132	-	-	132	-	-
50-125/40	132	-	-	132	-	-
50-125/55	132	-	-	132	-	-
50-125/75	132	-	-	132	-	-
50-160/55	160	-	-	160	-	-
50-160/75	160	-	-	160	-	-
50-160/92	160	-	-	160	-	-
50-160/110	160	-	-	160	-	-

[illegible]

\* On request.

nsce-32-80sp 2p50-en c td

## NSCE 32 ÷ 80 SERIES, 4 POLES SHIM FOR PUMP AND MOTOR FEET

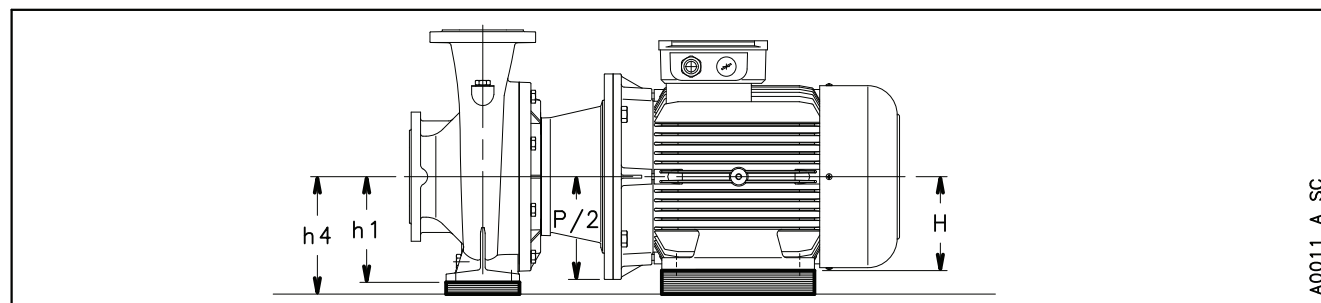


PUMP TYPE NSCE..4	DIMENSIONS (mm)				SHIM*	
	PUMP h1	MOTOR		h4	CODE	
		P/2	H		Pump	Motor
32-125/02B	112	-	-	112	-	-
32-125/02A	112	-	-	112	-	-
32-125/02	112	-	-	112	-	-
32-125/03	112	-	-	112	-	-
32-160/02	132	-	-	132	-	-
32-160/03	132	-	-	132	-	-
32-160/05A	132	-	-	132	-	-
32-160/05	132	-	-	132	-	-
32-200/05A	160	-	-	160	-	-
32-200/05	160	-	-	160	-	-
32-200/07	160	-	-	160	-	-
32-200/11	160	-	-	160	-	-
32-250/15B	180	-	-	180	-	-
32-250/15A	180	-	-	180	-	-
32-250/15	180	-	-	180	-	-
32-250/22	180	-	-	180	-	-
40-125/02A	112	-	-	112	-	-
40-125/02	112	-	-	112	-	-
40-125/03	112	-	-	112	-	-
40-125/05	112	-	-	112	-	-
40-160/03	132	-	-	132	-	-
40-160/05	132	-	-	132	-	-
40-160/07	132	-	-	132	-	-
40-160/11	132	-	-	132	-	-
40-200/07	160	-	-	160	-	-
40-200/11	160	-	-	160	-	-
40-200/15A	160	-	-	160	-	-
40-200/15	160	-	-	160	-	-
40-250/15A	180	-	-	180	-	-
40-250/15	180	-	-	180	-	-
40-250/22A	180	-	-	180	-	-
40-250/22	180	-	-	180	-	-
40-250/30	180	-	-	180	-	-
50-125/03	132	-	-	132	-	-
50-125/05	132	-	-	132	-	-
50-125/07	132	-	-	132	-	-
50-125/11	132	-	-	132	-	-
50-160/07	160	-	-	160	-	-
50-160/11A	160	-	-	160	-	-
50-160/11	160	-	-	160	-	-
50-160/15	160	-	-	160	-	-

[illegible]

nsce-32-80sp 4p50-en c td

## NSCS 32 ÷ 80 SERIES, 2 POLES SHIM FOR PUMP AND MOTOR FEET



A0011\_A\_SC

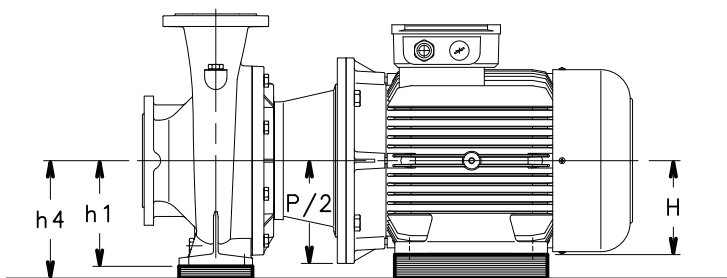
PUMP TYPE NSCS..2	DIMENSIONS (mm)				SHIM* CODE	
	PUMP h1	MOTOR P/2	H	h4	Pump	Motor
32-125/11	112	100	-	112	-	-
32-125/15	112	100	-	112	-	-
32-125/22	112	100	-	112	-	-
32-125/30	112	125	-	132	2 x 161403210	-
32-160/22	132	100	-	100	-	-
32-160/30	132	125	-	125	-	-
32-160/40	132	125	-	125	-	-
32-160/55	132	150	-	160	2 x 161403210 2 x 161407550	-
32-200/30	160	125	-	160	-	-
32-200/40	160	125	-	160	-	-
32-200/55	160	150	-	160	-	-
32-200/75	160	150	-	160	-	-
32-250/75	180	150	-	180	-	-
32-250/110A	180	175	160	180	-	2 x 161407670
32-250/110	180	175	160	180	-	2 x 161407670
32-250/150	180	175	160	180	-	2 x 161407670
40-125/15	112	100	-	112	-	-
40-125/22	112	100	-	112	-	-
40-125/30	112	125	-	132	2 x 161403210	-
40-125/40	112	125	-	132	2 x 161403210	-
40-160/30	132	125	-	132	-	-
40-160/40	132	125	-	132	-	-
40-160/55	132	150	-	160	2 x 161403210 2 x 161407550	-
40-160/75	132	150	-	160	2 x 161403210 2 x 161407550	-
40-200/55	160	150	-	160	-	-
40-200/75	160	150	-	160	-	-
40-200/110A	160	175	160	180	2 x 161403210	2 x 161407670
40-200/110	160	175	160	180	2 x 161403210	2 x 161407670
40-250/110A	180	175	160	180	-	2 x 161407670
40-250/110	180	175	160	180	-	2 x 161407670
40-250/150	180	175	160	180	-	2 x 161407670
40-250/185	180	175	160	180	-	2 x 161407670
40-250/220	180	175	160	180	-	2 x 161407670
50-125/30	132	125	-	132	-	-
50-125/40	132	125	-	132	-	-
50-125/55	132	150	-	160	2 x 161403210 2 x 161407550	-
50-125/75	132	150	-	160	2 x 161403210 2 x 161407550	-
50-160/55	160	150	-	160	-	-
50-160/75	160	150	-	160	-	-
50-160/110A	160	175	160	180	2 x 161403210	2 x 161407670
50-160/110	160	175	160	180	2 x 161403210	2 x 161407670
50-200/110A	160	175	160	180	2 x 161403210	2 x 161407670
50-200/110	160	175	160	180	2 x 161403210	2 x 161407670
50-200/150	160	175	160	180	2 x 161403210	2 x 161407670
50-200/185	160	175	160	180	2 x 161403210	2 x 161407670

\* On request.

PUMP TYPE NSCS..2	DIMENSIONS (mm)				SHIM* CODE	
	PUMP h1	MOTOR P/2	H	h4	Pump	Motor
50-250/150	180	175	160	180	-	2 x 161407670
50-250/185	180	175	160	180	-	2 x 161407670
50-250/220	180	175	160	180	-	2 x 161407670
50-250/300	180	200	200	200	2 x 161403230	-
50-315/370	225	200	200	225	-	2 x 768082110
50-315/450	225	225	225	225	-	-
50-315/550	225	275	250	280	2 x 768003140 2 x 768003180	2 x 161407990
50-315/750	225	275	280	280	2 x 768003140 2 x 768003180	-
65-125/40	160	125	-	160	-	-
65-125/55	160	150	-	160	-	-
65-125/75	160	150	-	160	-	-
65-125/110A	160	175	160	180	2 x 161403230	2 x 161407670
65-125/110	160	175	160	180	2 x 161403230	2 x 161407670
65-160/75	160	150	-	160	-	-
65-160/110A	160	175	160	180	2 x 161403230	2 x 161407670
65-160/110	160	175	160	180	2 x 161403230	2 x 161407670
65-160/150	160	175	160	180	2 x 161403230	2 x 161407670
65-160/185	160	175	160	180	2 x 161403230	2 x 161407670
65-200/110	180	175	160	180	-	2 x 161407670
65-200/150	180	175	160	180	-	2 x 161407670
65-200/185	180	175	160	180	-	2 x 161407670
65-200/220	180	175	160	180	-	2 x 161407670
65-200/300	180	200	200	200	2 x 161403230	-
65-250/220	200	175	160	200	-	4 x 161407670
65-250/300	200	200	200	200	-	-
65-250/370	200	200	200	200	-	-
65-250/450	200	225	225	225	2 x 161404380	-
65-250/550	200	275	250	280	4 x 161404380 2 x 161407800	2 x 161407990
65-315/550	225	275	250	280	2 x 768003140 2 x 768003180	2 x 161407990
65-315/750	225	275	280	280	2 x 768003140 2 x 768003180	-
65-315/900	225	275	280	280	2 x 768003140 2 x 768003180	-
80-160/110	180	175	160	180	-	2 x 161407670
80-160/150	180	175	160	180	-	2 x 161407670
80-160/185	180	175	160	180	-	2 x 161407670
80-160/220	180	175	160	180	-	2 x 161407670
80-200/220	180	175	160	180	-	2 x 161407670
80-200/300	180	200	200	200	2 x 161403230	-
80-200/370	180	200	200	200	2 x 161403230	-
80-200/450	180	225	225	225	2 x 161403230 2 x 161407570	-
80-250/370	200	200	200	200	-	-
80-250/450	200	225	225	225	2 x 161404380	-
80-250/550	200	275	250	280	4 x 161404380 2 x 161407800	2 x 161407990
80-250/750	200	275	280	280	4 x 161404380 2 x 161407800	-

nscs-32-80sp\_2p50-en\_c\_td

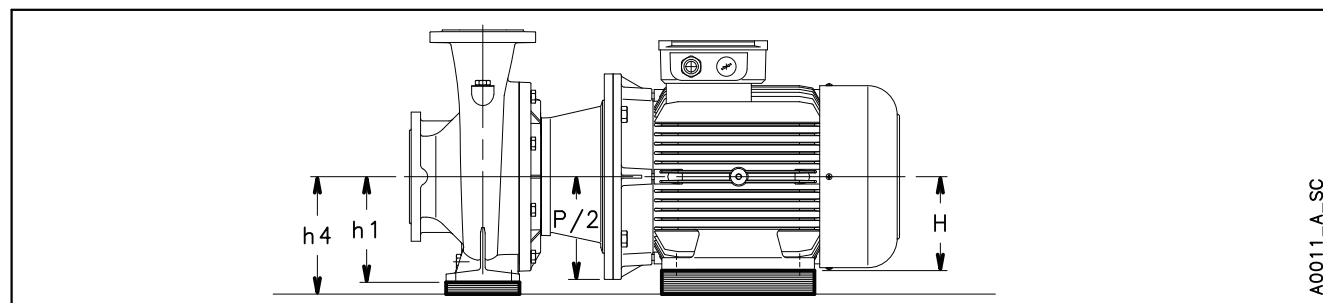
## NSCS 100 ÷ 125 SERIES, 2 POLES

[illegible][illegible]

\* On request.

nscs-100-125sp 2p50-en c td

## NSCS 32 ÷ 80 SERIES, 4 POLES SHIM FOR PUMP AND MOTOR FEET



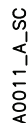
PUMP TYPE NSCS..4	DIMENSIONS (mm)				SHIM* CODE	
	PUMP h1	MOTOR P/2	MOTOR H	h4	Pump	Motor
32-160/05A	132	100	79,5	132	-	-
32-160/05	132	100	79,5	132	-	-
32-200/05A	160	100	79,5	160	-	-
32-200/05	160	100	79,5	160	-	-
32-200/07	160	100	-	160	-	-
32-200/11	160	100	-	160	-	-
32-250/11A	180	100	-	180	-	-
32-250/11	180	100	-	180	-	-
32-250/15	180	100	-	180	-	-
32-250/22	180	125	-	180	-	-
40-125/05	112	100	79,5	112	-	-
40-160/03	132	100	-	132	-	-
40-160/05	132	100	79,5	132	-	-
40-160/07	132	100	-	132	-	-
40-160/11	132	100	-	132	-	-
40-200/07	160	100	-	160	-	-
40-200/11	160	100	-	160	-	-
40-200/15A	160	100	-	160	-	-
40-200/15	160	100	-	160	-	-
40-250/11	180	100	-	180	-	-
40-250/15	180	100	-	180	-	-
40-250/22A	180	125	-	180	-	-
40-250/22	180	125	-	180	-	-
40-250/30	180	125	-	180	-	-
50-125/05	132	100	79,5	132	-	-
50-125/07	132	100	-	132	-	-
50-125/11	132	100	-	132	-	-
50-160/07	132	100	-	132	-	-
50-160/11A	160	100	-	160	-	-
50-160/11	160	100	-	160	-	-
50-160/15	160	100	-	160	-	-
50-200/11	160	100	-	160	-	-
50-200/15	160	100	-	160	-	-
50-200/22A	160	125	-	160	-	-
50-200/22	160	125	-	160	-	-
50-250/22A	180	125	-	180	-	-
50-250/22	180	125	-	180	-	-
50-250/30	180	125	-	180	-	-
50-250/40	180	125	-	180	-	-
50-315/40	225	125	-	225	-	-
50-315/55	225	150	-	225	-	-
50-315/75	225	150	-	225	-	-
50-315/110	225	175	160	225	-	1 x 743760350▲

PUMP TYPE NSCS..4	DIMENSIONS (mm)				SHIM* CODE	
	PUMP h1	MOTOR P/2	MOTOR H	h4	Pump	Motor
65-125/05	160	100	79,5	160	-	-
65-125/07	160	100	-	160	-	-
65-125/11	160	100	-	160	-	-
65-125/15	160	100	-	160	-	-
65-160/11A	160	100	-	160	-	-
65-160/11	160	100	-	160	-	-
65-160/15	160	100	-	160	-	-
65-160/22A	160	125	-	160	-	-
65-160/22	160	125	-	160	-	-
65-200/15	180	100	-	180	-	-
65-200/22A	180	125	-	180	-	-
65-200/22	180	125	-	180	-	-
65-200/30	180	125	-	180	-	-
65-200/40	180	125	-	180	-	-
65-250/30	200	125	-	200	-	-
65-250/40	200	125	-	200	-	-
65-250/55A	200	150	-	200	-	-
65-250/55	200	150	-	200	-	-
65-250/75	200	150	-	200	-	-
65-315/55	225	150	-	225	-	-
65-315/75	225	150	-	225	-	-
65-315/110	225	175	160	225	-	1 x 743760350▲
65-315/150	225	175	160	225	-	1 x 743760350▲
80-160/15	180	100	-	180	-	-
80-160/22A	180	125	-	180	-	-
80-160/22	180	125	-	180	-	-
80-160/30	180	125	-	180	-	-
80-200/30	180	125	-	180	-	-
80-200/40	180	125	-	180	-	-
80-200/55A	180	150	-	180	-	-
80-200/55	180	150	-	180	-	-
80-250/55A	200	150	-	200	-	-
80-250/55	200	150	-	200	-	-
80-250/75	200	150	-	200	-	-
80-250/110	200	175	160	200	-	4 x 161407670
80-315/110A	250	175	160	250	-	1 x 743760360▲
80-315/110	250	175	160	250	-	1 x 743760360▲
80-315/150	250	175	160	250	-	1 x 743760360▲
80-315/185	250	175	180	250	-	1 x 743760290▲
80-315/220	250	175	180	250	-	1 x 743760290▲
80-400/185	280	175	180	280	-	1 x 743760300▲
80-400/220	280	175	180	280	-	1 x 743760300▲
80-400/300	280	200	200	280	-	1 x 743760230▲
80-400/370	280	225	225	280	-	1 x 743760170▲

\* On request. ▲ Support base kit.

ns32-32-80sp\_4p50-en\_b\_td

## NSCS 100 ÷ 250 SERIES, 4 POLES



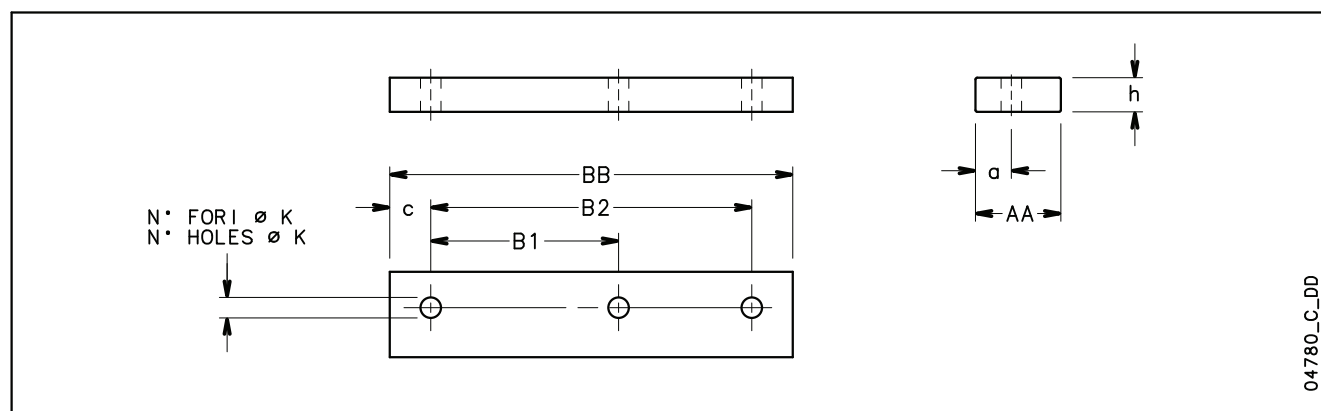
PUMP TYPE NSCS..4	DIMENSIONS (mm)				SHIM*	
	PUMP h1	MOTOR			CODE	
		P/2	H	h4	Pump	Motor
100-160/22A	200	125	-	200	-	-
100-160/22	200	125	-	200	-	-
100-160/30	200	125	-	200	-	-
100-160/40	200	125	-	200	-	-
100-200/40	200	125	-	200	-	-
100-200/55	200	150	-	200	-	-
100-200/75	200	150	-	200	-	-
100-250/75	225	150	-	225	-	-
100-250/110	225	175	160	225	-	1 x 743760350▲
100-315/110	250	175	160	250	-	1 x 743760360▲
100-315/150	250	175	160	250	-	1 x 743760360▲
100-315/185	250	175	180	250	-	1 x 743760290▲
100-315/220	250	175	180	250	-	1 x 743760290▲
100-315/300	250	200	200	250	-	1 x 743760220▲
100-400/300	280	200	200	280	-	1 x 743760230▲
100-400/370	280	225	225	280	-	1 x 743760170▲
100-400/450	280	225	225	280	-	1 x 743760170▲
125-200/55	250	150	-	250	-	-
125-200/75	250	150	-	250	-	-
125-200/110	250	175	160	250	-	1 x 743760360▲
125-250/110	250	175	160	250	-	1 x 743760360▲
125-250/150	250	175	160	250	-	1 x 743760360▲
125-315/185	280	175	180	280	-	1 x 743760300▲
125-315/220	280	175	180	280	-	1 x 743760300▲
125-315/300	280	200	200	280	-	1 x 743760230▲
125-315/370	280	225	225	280	-	1 x 743760170▲
125-400/370	315	225	225	315	-	1 x 743760180▲
125-400/450	315	225	225	315	-	1 x 743760180▲
125-400/550	315	275	250	315	-	1 x 743760130▲
125-400/750	315	275	280	315	-	2 x 768082130
150-200/110A	280	175	160	280	-	1 x 743760370▲
150-200/110	280	175	160	280	-	1 x 743760370▲
150-200/150A	280	175	160	280	-	1 x 743760370▲
150-200/150	280	175	160	280	-	1 x 743760370▲
150-250/150	280	175	160	280	-	1 x 743760370▲
150-250/185	280	175	180	280	-	1 x 743760300▲
150-250/220	280	175	180	280	-	1 x 743760300▲
150-250/300	280	200	200	280	-	1 x 743760230▲
150-315/300	280	200	200	280	-	1 x 743760230▲
150-315/370	280	225	225	280	-	1 x 743760170▲
150-315/450	280	225	225	280	-	1 x 743760170▲

[illegible]

\* On request, ▲ Support base kit.

nscs-100-250sp 4p50-en b td

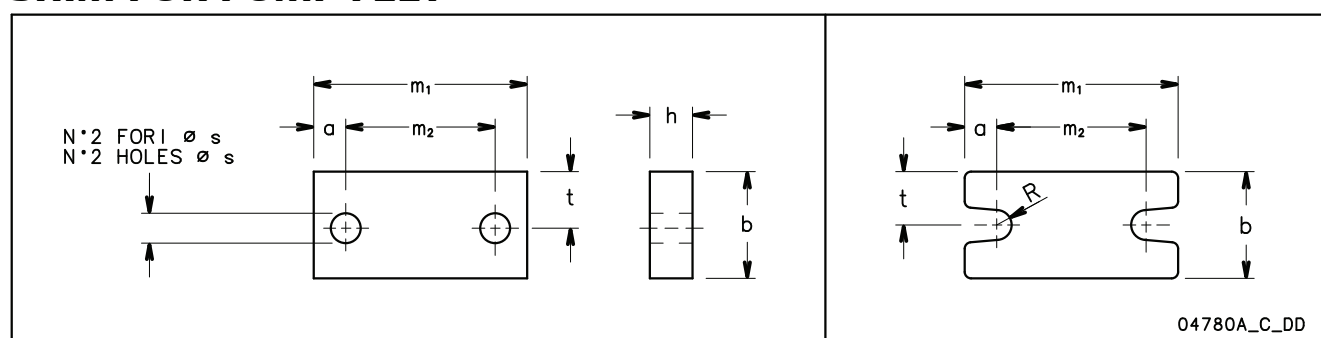
## SHIM FOR MOTOR FEET



CODE	DENOMINATION					DIMENSIONS (mm)				HOLES	
	AA	x	h	x	BB	a	B1	B2	c	N°	Ø K
161402570	35		20		125	17	100	-	12,5	2	10
161402320	40		10		155	20	100	125	15	3	10
161402340	40		12		155	20	100	125	15	3	10
161402360	40		12		180	17	140	-	20	2	14
161402380	40		20		180	17	140	-	20	2	14
161402400	40		30		155	20	100	125	15	3	10
161402420	40		40		180	17	140	-	20	2	14
161402440	50		8		226	21	140	178	24	3	14
161402460	50		20		226	21	140	178	24	3	14
161407670	50		20		304	25	210	254	25	3	14
161407690	50		30		304	25	210	254	25	3	14
768082180	80		5		332	35,5	241	279	26,5	3	14
768082190	80		10		332	35,5	241	279	26,5	3	14
161407590	80		20		332	35,5	241	279	26,5	3	14
768082110	80		25		370	33,5	305	-	32,5	2	19
768082120	80		25		412	40	286	311	50,5	3	19
161407990	100		30		467	50	311	349	59	3	22
768082130	100		35		517	50	368	419	49	3	24

## SHIM FOR PUMP FEET

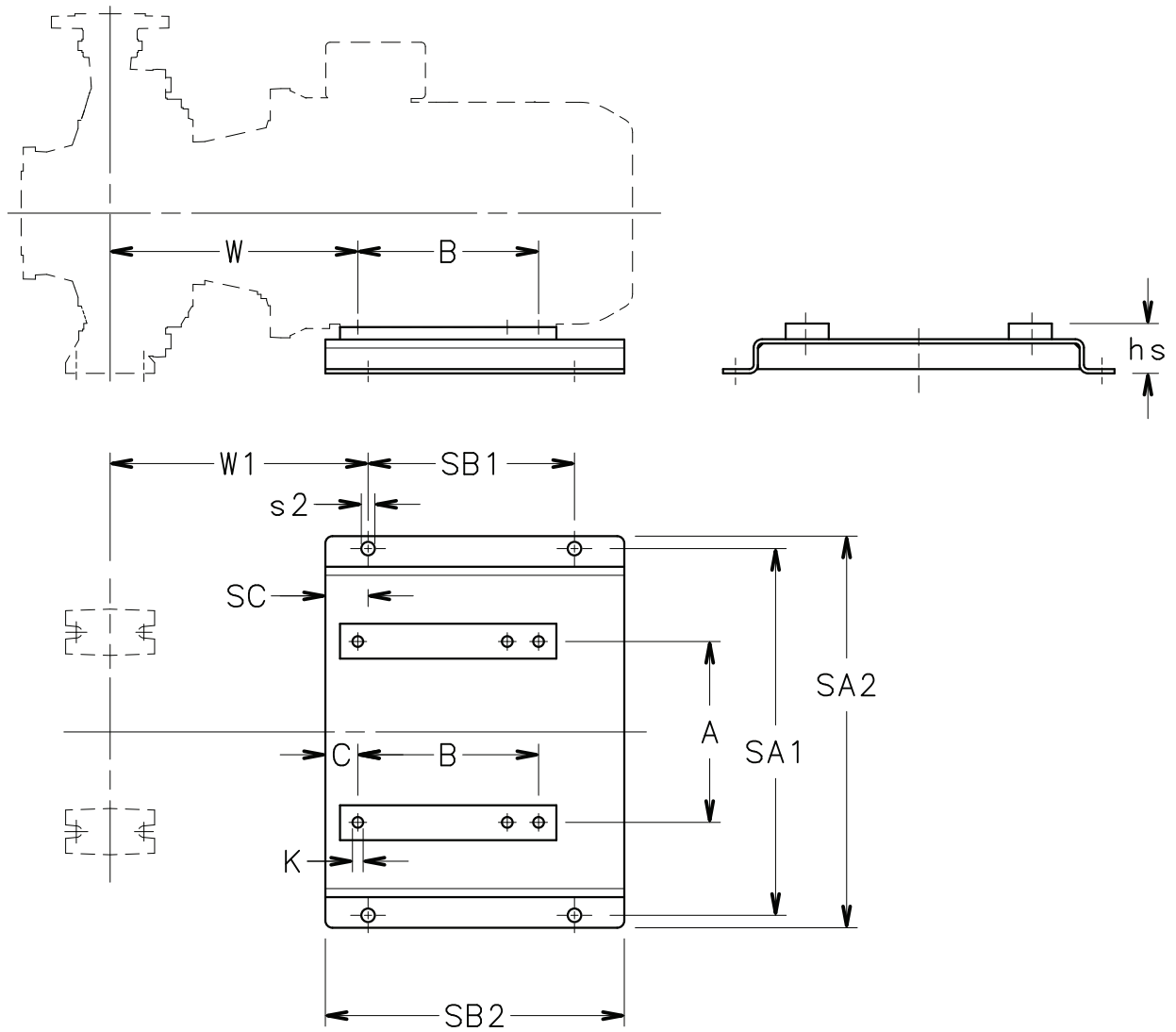
sp-mot-nscs-nscf-en\_d\_td



CODE	DENOMINATION					DIMENSIONS (mm)				
	b	x	h	x	m <sub>1</sub>	a	m <sub>2</sub>	Ø s	R	t
161407770	40		10		160	25	110	14	-	16,5
161403250	40		20		160	25	110	14	-	16,5
161404360	40		25		160	25	110	14	-	16,5
161407780	40		30		160	25	110	14	-	16,5
161407550	50		8		100	15	70	14	-	26,5
161403210	50		20		100	15	70	14	-	26,5
161403230	70		20		125	15	95	14	-	37,5
161407570	70		25		125	15	95	14	-	37,5
161407790	80		10		160	20	120	18	-	42,5
161404380	80		25		160	20	120	18	-	42,5
161407800	80		30		160	20	120	18	-	42,5
768003140	85		10		160	32,5	95 / 120	-	9	42,5
768003150	85		15		160	32,5	95 / 120	-	9	42,5
768003170	85		30		160	32,5	95 / 120	-	9	42,5
768003180	85		45		160	32,5	95 / 120	-	9	42,5
768003190	85		50		160	32,5	95 / 120	-	9	42,5

sp-pompa-nscf-en\_d\_td

**NSCS SUPPORT BASE KIT**



NSCS-SUPBASE\_A\_SC

## NSCS SUPPORT BASE KIT

CODE KIT	PUMP TYPE NSCS..4	DIMENSIONS (mm)												
		A	B	C	hs	K	W	W1	SA1	SA2	SB1	SB2	SC	s2
743760350	50-315/110	254	210	33	65	15	348	376	515	550	290	420	60	19
743760350	65-315/110	254	210	33	65	15	348	376	515	550	290	420	60	19
743760350	65-315/150	254	254	33	65	15	348	376	515	550	290	420	60	19
743760360	80-315/110A	254	210	33	90	15	348	376	515	550	290	420	60	19
743760360	80-315/110	254	210	33	90	15	348	376	515	550	290	420	60	19
743760360	80-315/150	254	254	33	90	15	348	376	515	550	290	420	60	19
743760290	80-315/185	279	241	46	70	15	361	376	515	550	290	420	60	19
743760290	80-315/220	279	279	46	70	15	361	376	515	550	290	420	60	19
743760300	80-400/185	279	241	46	100	15	375	390	515	550	290	420	60	19
743760300	80-400/220	279	279	46	100	15	375	390	515	550	290	420	60	19
743760230	80-400/300	318	305	58	80	19	387	390	515	550	290	420	60	19
743760170	80-400/370	356	286/311	60	55	19	433	433	605	640	392	510	60	19
743760350	100-250/110	254	210	33	65	15	348	376	515	550	290	420	60	19
743760360	100-315/110	254	210	33	90	15	348	376	515	550	290	420	60	19
743760360	100-315/150	254	254	33	90	15	348	376	515	550	290	420	60	19
743760290	100-315/185	279	241	46	70	15	361	376	515	550	290	420	60	19
743760290	100-315/220	279	279	46	70	15	361	376	515	550	290	420	60	19
743760220	100-315/300	318	305	58	50	19	379	382	515	550	290	420	60	19
743760230	100-400/300	318	305	58	80	19	387	390	515	550	290	420	60	19
743760170	100-400/370	356	286/311	60	55	19	433	433	605	640	392	510	60	19
743760170	100-400/450	356	286/311	60	55	19	433	433	605	640	392	510	60	19
743760360	125-200/110	254	210	33	90	15	348	376	515	550	290	420	60	19
743760360	125-250/110	254	210	33	90	15	348	376	515	550	290	420	60	19
743760360	125-250/150	254	254	33	90	15	348	376	515	550	290	420	60	19
743760300	125-315/185	279	241	46	100	15	375	390	515	550	290	420	60	19
743760300	125-315/220	279	279	46	100	15	375	390	515	550	290	420	60	19
743760230	125-315/300	318	305	58	80	19	387	390	515	550	290	420	60	19
743760170	125-315/370	356	286/311	60	55	19	433	433	605	640	392	510	60	19
743760180	125-400/370	356	286/311	60	90	19	433	433	605	640	392	510	60	19
743760180	125-400/450	356	286/311	60	90	19	433	433	605	640	392	510	60	19
743760130	125-400/550	406	349	79	65	24	452	433	605	640	392	510	60	19
743760370	150-200/110A	254	210	33	120	15	348	376	515	550	290	420	60	19
743760370	150-200/110	254	210	33	120	15	348	376	515	550	290	420	60	19
743760370	150-200/150A	254	254	33	120	15	348	376	515	550	290	420	60	19
743760370	150-200/150	254	254	33	120	15	348	376	515	550	290	420	60	19
743760370	150-250/150	254	254	33	120	15	362	390	515	550	290	420	60	19
743760300	150-250/185	279	241	46	100	15	375	390	515	550	290	420	60	19
743760300	150-250/220	279	279	46	100	15	375	390	515	550	290	420	60	19
743760230	150-250/300	318	305	58	80	19	387	390	515	550	290	420	60	19
743760230	150-315/300	318	305	58	80	19	387	390	515	550	290	420	60	19
743760170	150-315/370	356	286/311	60	55	19	433	433	605	640	392	510	60	19
743760170	150-315/450	356	286/311	60	55	19	433	433	605	640	392	510	60	19
743760180	150-400/450	356	286/311	60	90	19	433	433	605	640	392	510	60	19
743760130	150-400/550	406	349	79	65	24	452	433	605	640	392	510	60	19
743760320	200-250/185	279	241	46	175	15	375	390	515	550	290	420	60	19
743760320	200-250/220	279	279	46	175	15	375	390	515	550	290	420	60	19
743760250	200-250/300A	318	305	58	155	19	387	390	515	550	290	420	60	19
743760250	200-250/300	318	305	58	155	19	387	390	515	550	290	420	60	19
743760190	200-315/370	356	286/311	60	130	19	433	433	605	640	392	510	60	19
743760190	200-315/450	356	286/311	60	130	19	433	433	605	640	392	510	60	19
743760140	200-315/550	406	349	79	105	24	452	433	605	640	392	510	60	19
743760100	200-315/750	457	368/419	71	75	24	474	474	655	690	420	560	70	19
743760200	250-315/370	356	286/311	60	175	19	433	433	605	640	392	510	60	19
743760200	250-315/450	356	286/311	60	175	19	433	433	605	640	392	510	60	19
743760150	250-315/550	406	349	79	150	24	452	433	605	640	392	510	60	19
743760110	250-315/750	457	368/419	71	120	24	474	474	655	690	420	560	70	19

Nscs-supbase\_4p50-en\_d\_td

# REPORTS AND DECLARATIONS

## REPORTS AND DECLARATIONS

### i) Test reports

#### a) Factory Test Report

- Test report compiled at the end of the assembly line, including flow-head performance test (ISO 9906:2012 – Grade 3B) and hydrostatic pressure test.

#### b) Audit Test Report

- Test report for electric pumps compiled in the test room, comprising flow-head-pump input-pump efficiency performance test (according to ISO 9906:2012)

#### c) NPSH Test Report

- Test report for electric pumps compiled in the test room, comprising flow-NPSH performance test (according to ISO 9906:2012)

#### d) Noise Test Report

- Report indicating sound pressure and power measurements (EN ISO 20361, EN ISO 11203, EN ISO 4871)

#### e) Vibration Test Report

- (unavailable for submerged or submersible pumps)
- Report indicating vibration measurements (ISO 10816-1)

### ii) Declaration of product conformity with the technical requirements indicated in the order

#### a) EN 10204:2004 - type 2.1

- does not include test results on supplied or similar products.

#### b) EN 10204:2004 - type 2.2

- includes test results (materials certificates) on similar products.

### iii) Issue of a further EC Declaration of Conformity,

- in addition to the one accompanying the product, it comprises references to European law and the main technical standards (e.g.: MD 2006/42/EC, EMCD 2014/30/EU, ErP 2009/125/EC).

*N.B.: if the request is made after receipt of the product, communicate the code (name) and serial number (date + progressive number).*

### iv) Manufacturer's declaration of conformity

- relative to one of more types of products without indicating specific codes and serial numbers.

### v) Other certificates and/or documentation on request

- subject to availability or feasibility.

### vi) Duplication of certificates and/or documentation on request

- subject to availability or feasibility.

# **TECHNICAL APPENDIX**

## NPSH

The minimum operating values that can be reached at the pump suction end are limited by the onset of cavitation.

Cavitation is the formation of vapour-filled cavities within liquids where the pressure is locally reduced to a critical value, or where the local pressure is equal to, or just below the vapour pressure of the liquid.

The vapour-filled cavities flow with the current and when they reach a higher pressure area the vapour contained in the cavities condenses. The cavities collide, generating pressure waves that are transmitted to the walls. These, being subjected to stress cycles, gradually become deformed and yield due to fatigue. This phenomenon, characterized by a metallic noise produced by the hammering on the pipe walls, is called incipient cavitation.

The damage caused by cavitation may be magnified by electrochemical corrosion and a local rise in temperature due to the plastic deformation of the walls. The materials that offer the highest resistance to heat and corrosion are alloy steels, especially austenitic steel. The conditions that trigger cavitation may be assessed by calculating the total net suction head, referred to in technical literature with the acronym NPSH (Net Positive Suction Head).

The NPSH represents the total energy (expressed in m.) of the liquid measured at suction under conditions of incipient cavitation, excluding the vapour pressure (expressed in m.) that the liquid has at the pump inlet.

To find the static height  $h_z$  at which to install the machine under safe conditions, the following formula must be verified:

$$h_p + h_z \geq (NPSH_r + 0.5) + h_f + h_{pv} \quad (1)$$

where:

**$h_p$**  is the absolute pressure applied to the free liquid surface in the suction tank, expressed in m. of liquid;  $h_p$  is the quotient between the barometric pressure and the specific weight of the liquid.

**$h_z$**  is the suction lift between the pump axis and the free liquid surface in the suction tank, expressed in m.;  $h_z$  is negative when the liquid level is lower than the pump axis.

**$h_f$**  is the flow resistance in the suction line and its accessories, such as: fittings, foot valve, gate valve, elbows, etc.

**$h_{pv}$**  is the vapour pressure of the liquid at the operating temperature, expressed in m. of liquid.  $h_{pv}$  is the quotient between the  $P_v$  vapour pressure and the liquid's specific weight.

**0,5** is the safety factor.

The maximum possible suction head for installation depends on the value of the atmospheric pressure (i.e. the elevation above sea level at which the pump is installed) and the temperature of the liquid.

To help the user, with reference to water temperature (4° C) and to the elevation above sea level, the following tables show the drop in hydraulic pressure head in relation to the elevation above sea level, and the suction loss in relation to temperature.

Water temperature (°C)	20	40	60	80	90	110	120
Suction loss (m)	0,2	0,7	2,0	5,0	7,4	15,4	21,5

Elevation above sea level (m)	500	1000	1500	2000	2500	3000
Suction loss (m)	0,55	1,1	1,65	2,2	2,75	3,3

Friction loss is shown in the tables Flow Resistance of this catalogue. To reduce it to a minimum, especially in cases of high suction head (over 4-5 m.) or within the operating limits with high flow rates, we recommend using a suction line having a larger diameter than that of the pump's suction port. It is always a good idea to position the pump as close as possible to the liquid to be pumped.

Make the following calculation:

Liquid: water at ~15°C  $\gamma = 1 \text{ kg/dm}^3$

Flow rate required: 25 m<sup>3</sup>/h

Head for required delivery: 70 m.

Suction lift: 3,5 m.

The selection is an 33SV3G075T pump whose NPSH required value is, at 25 m<sup>3</sup>/h, of 2 m.

For water at 15 °C

$$h_p = P_a / \gamma = 10,33\text{m}, h_{pv} = P_v / \gamma = 0,174\text{m} (0,01701 \text{ bar})$$

The  $H_f$  flow resistance in the suction line with foot valves is ~ 1,2 m.

By substituting the parameters in formula (1) with the numeric values above, we have:

$$10,33 + (-3,5) \geq (2 + 0,5) + 1,2 + 0,17$$

from which we have: 6,8 > 3,9

The relation is therefore verified.

## VAPOUR PRESSURE

## VAPOUR PRESSURE $p_s$ AND $\rho$ DENSITY OF WATER TABLE

t °C	T K	$p_s$ bar	$\rho$ kg/dm <sup>3</sup>	t °C	T K	$p_s$ bar	$\rho$ kg/dm <sup>3</sup>	t °C	T K	$p_s$ bar	$\rho$ kg/dm <sup>3</sup>
0	273,15	0,00611	0,9998	55	328,15	0,15741	0,9857	120	393,15	1,9854	0,9429
1	274,15	0,00657	0,9999	56	329,15	0,16511	0,9852	122	395,15	2,1145	0,9412
2	275,15	0,00706	0,9999	57	330,15	0,17313	0,9846	124	397,15	2,2504	0,9396
3	276,15	0,00758	0,9999	58	331,15	0,18147	0,9842	126	399,15	2,3933	0,9379
4	277,15	0,00813	1,0000	59	332,15	0,19016	0,9837	128	401,15	2,5435	0,9362
5	278,15	0,00872	1,0000	60	333,15	0,1992	0,9832	130	403,15	2,7013	0,9346
6	279,15	0,00935	1,0000	61	334,15	0,2086	0,9826	132	405,15	2,867	0,9328
7	280,15	0,01001	0,9999	62	335,15	0,2184	0,9821	134	407,15	3,041	0,9311
8	281,15	0,01072	0,9999	63	336,15	0,2286	0,9816	136	409,15	3,223	0,9294
9	282,15	0,01147	0,9998	64	337,15	0,2391	0,9811	138	411,15	3,414	0,9276
10	283,15	0,01227	0,9997	65	338,15	0,2501	0,9805	140	413,15	3,614	0,9258
11	284,15	0,01312	0,9997	66	339,15	0,2615	0,9799	145	418,15	4,155	0,9214
12	285,15	0,01401	0,9996	67	340,15	0,2733	0,9793	155	428,15	5,433	0,9121
13	286,15	0,01497	0,9994	68	341,15	0,2856	0,9788	160	433,15	6,181	0,9073
14	287,15	0,01597	0,9993	69	342,15	0,2984	0,9782	165	438,15	7,008	0,9024
15	288,15	0,01704	0,9992	70	343,15	0,3116	0,9777	170	443,15	7,920	0,8973
16	289,15	0,01817	0,9990	71	344,15	0,3253	0,9770	175	448,15	8,924	0,8921
17	290,15	0,01936	0,9988	72	345,15	0,3396	0,9765	180	453,15	10,027	0,8869
18	291,15	0,02062	0,9987	73	346,15	0,3543	0,9760	185	458,15	11,233	0,8815
19	292,15	0,02196	0,9985	74	347,15	0,3696	0,9753	190	463,15	12,551	0,8760
20	293,15	0,02337	0,9983	75	348,15	0,3855	0,9748	195	468,15	13,987	0,8704
21	294,15	0,24850	0,9981	76	349,15	0,4019	0,9741	200	473,15	15,550	0,8647
22	295,15	0,02642	0,9978	77	350,15	0,4189	0,9735	205	478,15	17,243	0,8588
23	296,15	0,02808	0,9976	78	351,15	0,4365	0,9729	210	483,15	19,077	0,8528
24	297,15	0,02982	0,9974	79	352,15	0,4547	0,9723	215	488,15	21,060	0,8467
25	298,15	0,03166	0,9971	80	353,15	0,4736	0,9716	220	493,15	23,198	0,8403
26	299,15	0,03360	0,9968	81	354,15	0,4931	0,9710	225	498,15	25,501	0,8339
27	300,15	0,03564	0,9966	82	355,15	0,5133	0,9704	230	503,15	27,976	0,8273
28	301,15	0,03778	0,9963	83	356,15	0,5342	0,9697	235	508,15	30,632	0,8205
29	302,15	0,04004	0,9960	84	357,15	0,5557	0,9691	240	513,15	33,478	0,8136
30	303,15	0,04241	0,9957	85	358,15	0,5780	0,9684	245	518,15	36,523	0,8065
31	304,15	0,04491	0,9954	86	359,15	0,6011	0,9678	250	523,15	39,776	0,7992
32	305,15	0,04753	0,9951	87	360,15	0,6249	0,9671	255	528,15	43,246	0,7916
33	306,15	0,05029	0,9947	88	361,15	0,6495	0,9665	260	533,15	46,943	0,7839
34	307,15	0,05318	0,9944	89	362,15	0,6749	0,9658	265	538,15	50,877	0,7759
35	308,15	0,05622	0,9940	90	363,15	0,7011	0,9652	270	543,15	55,058	0,7678
36	309,15	0,05940	0,9937	91	364,15	0,7281	0,9644	275	548,15	59,496	0,7593
37	310,15	0,06274	0,9933	92	365,15	0,7561	0,9638	280	553,15	64,202	0,7505
38	311,15	0,06624	0,9930	93	366,15	0,7849	0,9630	285	558,15	69,186	0,7415
39	312,15	0,06991	0,9927	94	367,15	0,8146	0,9624	290	563,15	74,461	0,7321
40	313,15	0,07375	0,9923	95	368,15	0,8453	0,9616	295	568,15	80,037	0,7223
41	314,15	0,07777	0,9919	96	369,15	0,8769	0,9610	300	573,15	85,927	0,7122
42	315,15	0,08198	0,9915	97	370,15	0,9094	0,9602	305	578,15	92,144	0,7017
43	316,15	0,09639	0,9911	98	371,15	0,9430	0,9596	310	583,15	98,70	0,6906
44	317,15	0,09100	0,9907	99	372,15	0,9776	0,9586	315	588,15	105,61	0,6791
45	318,15	0,09582	0,9902	100	373,15	1,0133	0,9581	320	593,15	112,89	0,6669
46	319,15	0,10086	0,9898	102	375,15	1,0878	0,9567	325	598,15	120,56	0,6541
47	320,15	0,10612	0,9894	104	377,15	1,1668	0,9552	330	603,15	128,63	0,6404
48	321,15	0,11162	0,9889	106	379,15	1,2504	0,9537	340	613,15	146,05	0,6102
49	322,15	0,11736	0,9884	108	381,15	1,3390	0,9522	350	623,15	165,35	0,5743
50	323,15	0,12335	0,9880	110	383,15	1,4327	0,9507	360	633,15	186,75	0,5275
51	324,15	0,12961	0,9876	112	385,15	1,5316	0,9491	370	643,15	210,54	0,4518
52	325,15	0,13613	0,9871	114	387,15	1,6362	0,9476	374,15	647,30	221,20	0,3154
53	326,15	0,14293	0,9862	116	389,15	1,7465	0,9460				
54	327,15	0,15002	0,9862	118	391,15	1,8628	0,9445				

G-at\_npsb\_sc

## TABLE OF FLOW RESISTANCE IN 100 m OF STRAIGHT CAST IRON PIPELINE (HAZEN-WILLIAMS FORMULA C=100)

FLOW RATE		NOMINAL DIAMETER in mm and inches																	
m <sup>3</sup> /h	l/min		15	20	25	32	40	50	65	80	100	125	150	175	200	250	300	350	400
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2	2 1/2"	3"	4"	5"	6"	7"	8"	10"	12"	14"	16"
0,6	10	v	0,94	0,53	0,34	0,21	0,13			The hr values must be multiplied by:  0,71 for galvanized or painted steel pipes  0,54 for stainless steel or copper pipes  0,47 for PVC or PE pipes									
		hr	16	3,94	1,33	0,40	0,13												
0,9	15	v	1,42	0,80	0,51	0,31	0,20												
		hr	33,9	8,35	2,82	0,85	0,29												
1,2	20	v	1,89	1,06	0,68	0,41	0,27	0,17											
		hr	57,7	14,21	4,79	1,44	0,49	0,16											
1,5	25	v	2,36	1,33	0,85	0,52	0,33	0,21											
		hr	87,2	21,5	7,24	2,18	0,73	0,25											
1,8	30	v	2,83	1,59	1,02	0,62	0,40	0,25											
		hr	122	30,1	10,1	3,05	1,03	0,35											
2,1	35	v	3,30	1,86	1,19	0,73	0,46	0,30											
		hr	162	40,0	13,5	4,06	1,37	0,46											
2,4	40	v		2,12	1,36	0,83	0,53	0,34	0,20										
		hr		51,2	17,3	5,19	1,75	0,59	0,16										
3	50	v		2,65	1,70	1,04	0,66	0,42	0,25										
		hr		77,4	26,1	7,85	2,65	0,89	0,25										
3,6	60	v		3,18	2,04	1,24	0,80	0,51	0,30										
		hr		108	36,6	11,0	3,71	1,25	0,35										
4,2	70	v		3,72	2,38	1,45	0,93	0,59	0,35										
		hr		144	48,7	14,6	4,93	1,66	0,46										
4,8	80	v		4,25	2,72	1,66	1,06	0,68	0,40										
		hr		185	62,3	18,7	6,32	2,13	0,59										
5,4	90	v			3,06	1,87	1,19	0,76	0,45	0,30									
		hr			77,5	23,3	7,85	2,65	0,74	0,27									
6	100	v			3,40	2,07	1,33	0,85	0,50	0,33									
		hr			94,1	28,3	9,54	3,22	0,90	0,33									
7,5	125	v			4,25	2,59	1,66	1,06	0,63	0,41									
		hr			142	42,8	14,4	4,86	1,36	0,49									
9	150	v				3,11	1,99	1,27	0,75	0,50	0,32								
		hr				59,9	20,2	6,82	1,90	0,69	0,23								
10,5	175	v				3,63	2,32	1,49	0,88	0,58	0,37								
		hr				79,7	26,9	9,07	2,53	0,92	0,31								
12	200	v				4,15	2,65	1,70	1,01	0,66	0,42								
		hr				102	34,4	11,6	3,23	1,18	0,40								
15	250	v				5,18	3,32	2,12	1,26	0,83	0,53	0,34							
		hr				154	52,0	17,5	4,89	1,78	0,60	0,20							
18	300	v					3,98	2,55	1,51	1,00	0,64	0,41							
		hr					72,8	24,6	6,85	2,49	0,84	0,28							
24	400	v					5,31	3,40	2,01	1,33	0,85	0,54	0,38						
		hr					124	41,8	11,66	4,24	1,43	0,48	0,20						
30	500	v					6,63	4,25	2,51	1,66	1,06	0,68	0,47						
		hr					187	63,2	17,6	6,41	2,16	0,73	0,30						
36	600	v						5,10	3,02	1,99	1,27	0,82	0,57	0,42					
		hr						88,6	24,7	8,98	3,03	1,02	0,42	0,20					
42	700	v						5,94	3,52	2,32	1,49	0,95	0,66	0,49					
		hr						118	32,8	11,9	4,03	1,36	0,56	0,26					
48	800	v						6,79	4,02	2,65	1,70	1,09	0,75	0,55					
		hr						151	42,0	15,3	5,16	1,74	0,72	0,34					
54	900	v						7,64	4,52	2,99	1,91	1,22	0,85	0,62					
		hr						188	52,3	19,0	6,41	2,16	0,89	0,42					
60	1000	v							5,03	3,32	2,12	1,36	0,94	0,69	0,53				
		hr							63,5	23,1	7,79	2,63	1,08	0,51	0,27				
75	1250	v							6,28	4,15	2,65	1,70	1,18	0,87	0,66				
		hr							96,0	34,9	11,8	3,97	1,63	0,77	0,40				
90	1500	v							7,54	4,98	3,18	2,04	1,42	1,04	0,80				
		hr							134	48,9	16,5	5,57	2,29	1,08	0,56				
105	1750	v							8,79	5,81	3,72	2,38	1,65	1,21	0,93				
		hr							179	65,1	21,9	7,40	3,05	1,44	0,75				
120	2000	v								6,63	4,25	2,72	1,89	1,39	1,06	0,68			
		hr								83,3	28,1	9,48	3,90	1,84	0,96	0,32			
150	2500	v								8,29	5,31	3,40	2,36	1,73	1,33	0,85			
		hr								126	42,5	14,3	5,89	2,78	1,45	0,49			
180	3000	v									6,37	4,08	2,83	2,08	1,59	1,02	0,71		
		hr									59,5	20,1	8,26	3,90	2,03	0,69	0,28		
210	3500	v									7,43	4,76	3,30	2,43	1,86	1,19	0,83		
		hr									79,1	26,7	11,0	5,18	2,71	0,91	0,38		
240	4000	v									8,49	5,44	3,77	2,77	2,12	1,36	0,94		
		hr									101	34,2	14,1	6,64	3,46	1,17	0,48		
300	5000	v										6,79	4,72	3,47	2,65	1,70	1,18		
		hr										51,6	21,2	10,0	5,23	1,77	0,73		
360	6000	v										8,15	5,66	4,16	3,18	2,04	1,42		
		hr										72,3	29,8	14,1	7,33	2,47	1,02		
420	7000	v											6,61	4,85	3,72	2,38	1,65	1,21	
		hr											39,6	18,7	9,75	3,29	1,35	0,64	
480	8000	v											7,55	5,55	4,25	2,72	1,89	1,39	
		hr											50,7	23,9	12,49	4,21	1,73	0,82	
540	9000	v											8,49	6,24	4,78	3,06	2,12	1,56	1,19
		hr											63,0	29,8	15,5	5,24	2,16	1,02	0,53
600	10000	v												6,93	5,31	3,40	2,36	1,73	1,33
		hr												36,2	18,9	6,36	2,62	1,24	0,65

hr = flow resistance for 100 m of straight pipeline (m)

V = water speed (m/s)

G-at-pct-en\_b\_th

## FLOW RESISTANCE

### TABLE OF FLOW RESISTANCE IN BENDS, VALVES AND GATES

The flow resistance is calculated using the equivalent pipeline length method according to the table below:

ACCESSORY TYPE	DN											
	25	32	40	50	65	80	100	125	150	200	250	300
	Equivalent pipeline length (m)											
45° bend	0,2	0,2	0,4	0,4	0,6	0,6	0,9	1,1	1,5	1,9	2,4	2,8
90° bend	0,4	0,6	0,9	1,1	1,3	1,5	2,1	2,6	3,0	3,9	4,7	5,8
90° smooth bend	0,4	0,4	0,4	0,6	0,9	1,1	1,3	1,7	1,9	2,8	3,4	3,9
Union tee or cross	1,1	1,3	1,7	2,1	2,6	3,2	4,3	5,3	6,4	7,5	10,7	12,8
Gate valve	-	-	-	0,2	0,2	0,2	0,4	0,4	0,6	0,9	1,1	1,3
Foot check valve	1,1	1,5	1,9	2,4	3,0	3,4	4,7	5,9	7,4	9,6	11,8	13,9
Non return valve	1,1	1,5	1,9	2,4	3,0	3,4	4,7	5,9	7,4	9,6	11,8	13,9

G-a-pcv-en\_b\_th

The table is valid for the Hazen Williams coefficient  $C=100$  (cast iron pipework);

for steel pipework, multiply the values by 1,41;

for stainless steel, copper and coated cast iron pipework, multiply the values by 1,85;

When the **equivalent pipeline length** has been determined, the flow resistance is obtained from the table of flow resistance.

The values given are guideline values which are bound to vary slightly according to the model, especially for gate valves and non-return valves, for which it is a good idea to check the values supplied by manufacturers.

## VOLUMETRIC CAPACITY

Litres per minute l/min	Cubic metres per hour m <sup>3</sup> /h	Cubic feet per hour ft <sup>3</sup> /h	Cubic feet per minute ft <sup>3</sup> /min	Imperial gallon per minute Imp. gal/min	U.S. gallon per minute US gal/min
<b>1,0000</b>	0,0600	2,1189	0,0353	0,2200	0,2642
16,6667	<b>1,0000</b>	35,3147	0,5886	3,6662	4,4029
0,4719	0,0283	<b>1,0000</b>	0,0167	0,1038	0,1247
28,3168	1,6990	60,0000	<b>1,0000</b>	6,2288	7,4805
4,5461	0,2728	9,6326	0,1605	<b>1,0000</b>	1,2009
3,7854	0,2271	8,0208	0,1337	0,8327	<b>1,0000</b>

## PRESSURE AND HEAD

Newton per square metre N/m <sup>2</sup>	kilo Pascal kPa	bar bar	Pound force per square inch psi	Metre of water m H <sub>2</sub> O	Millimetre of mercury mm Hg
<b>1,0000</b>	0,0010	$1 \times 10^{-5}$	$1,45 \times 10^{-4}$	$1,02 \times 10^{-4}$	0,0075
1 000,0000	<b>1,0000</b>	0,0100	0,1450	0,1020	7,5006
$1 \times 10^5$	100,0000	<b>1,0000</b>	14,5038	10,1972	750,0638
6 894,7570	6,8948	0,0689	<b>1,0000</b>	0,7031	51,7151
9 806,6500	9,8067	0,0981	1,4223	<b>1,0000</b>	73,5561
133,3220	0,1333	0,0013	0,0193	0,0136	<b>1,0000</b>

## LENGTH

Millimetre mm	Centimetre cm	Metre m	Inch in	Foot ft	Yard yd
<b>1,0000</b>	0,1000	0,0010	0,0394	0,0033	0,0011
10,0000	<b>1,0000</b>	0,0100	0,3937	0,0328	0,0109
1 000,0000	100,0000	<b>1,0000</b>	39,3701	3,2808	1,0936
25,4000	2,5400	0,0254	<b>1,0000</b>	0,0833	0,0278
304,8000	30,4800	0,3048	12,0000	<b>1,0000</b>	0,3333
914,4000	91,4400	0,9144	36,0000	3,0000	<b>1,0000</b>

## VOLUME

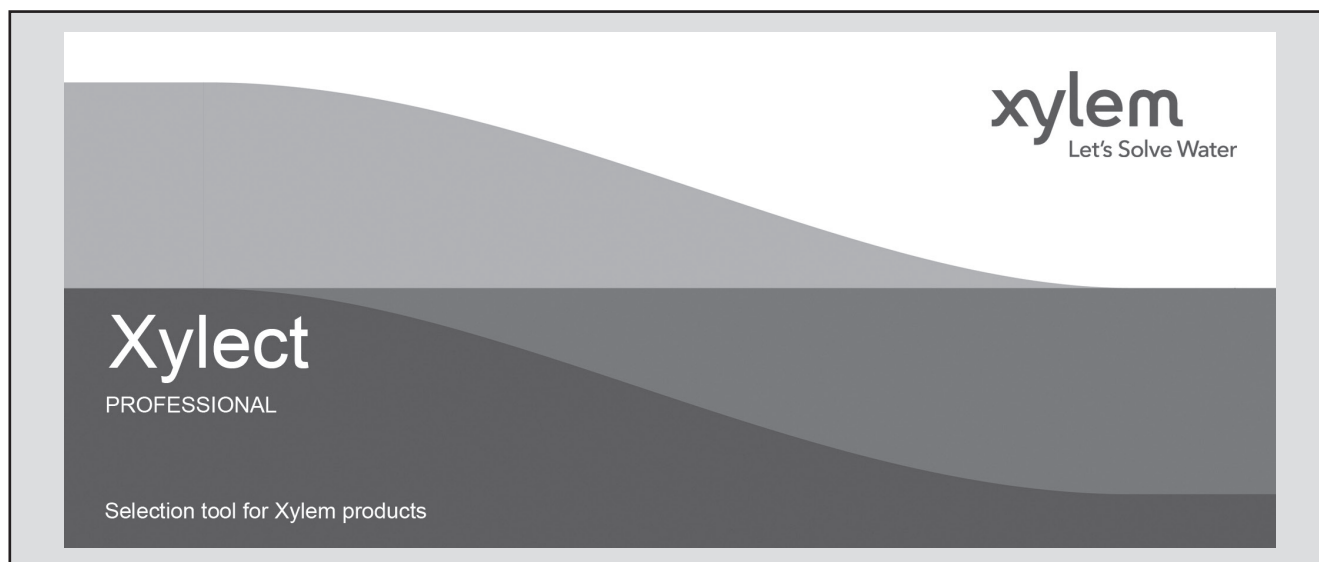
Cubic metre m <sup>3</sup>	Litre L	Millilitre ml	Imperial gallon imp. gal.	U.S. gallon US gal.	Cubic foot ft <sup>3</sup>
<b>1,0000</b>	1 000,0000	$1 \times 10^6$	219,9694	264,1720	35,3147
0,0010	<b>1,0000</b>	1 000,0000	0,2200	0,2642	0,0353
$1 \times 10^{-6}$	0,0010	<b>1,0000</b>	$2,2 \times 10^{-4}$	$2,642 \times 10^{-4}$	$3,53 \times 10^{-5}$
0,0045	4,5461	4 546,0870	<b>1,0000</b>	1,2009	0,1605
0,0038	3,7854	3 785,4120	0,8327	<b>1,0000</b>	0,1337
0,0283	28,3168	28 316,8466	6,2288	7,4805	<b>1,0000</b>

## TEMPERATURE

Water	Kelvin K	Celsius °C	Fahrenheit °F	$^{\circ}\text{F} = ^{\circ}\text{C} \times \frac{9}{5} + 32$ $^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times \frac{5}{9}$
icing	273,1500	0,0000	32,0000	
boiling	373,1500	100,0000	212,0000	

G-at\_pp-en\_b\_sc

## FURTHER PRODUCT SELECTION AND DOCUMENTATION Xylect



Xylect is pump solution selection software with an extensive online database of product information across the entire Lowara range of pumps and related products, with multiple search options and helpful project management facilities. The system holds up-to-date product information on thousands of products and accessories.

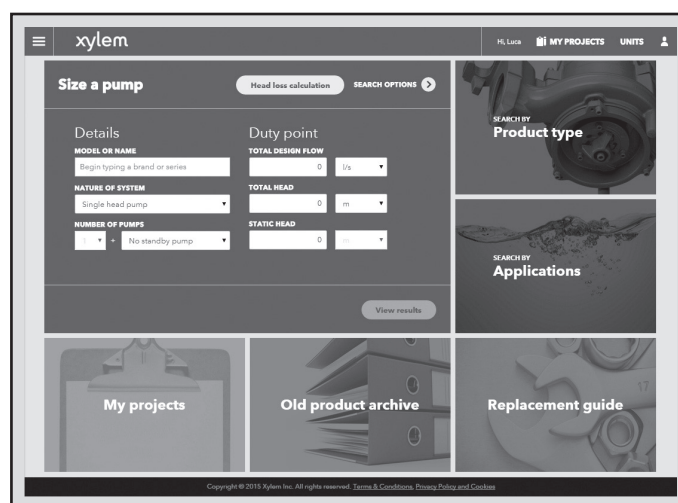
The possibility to search by applications and the detailed information output given makes it easy to make the optimal selection without having detailed knowledge about the Lowara products.

The search can be made by:

- Application
- Product type
- Duty point

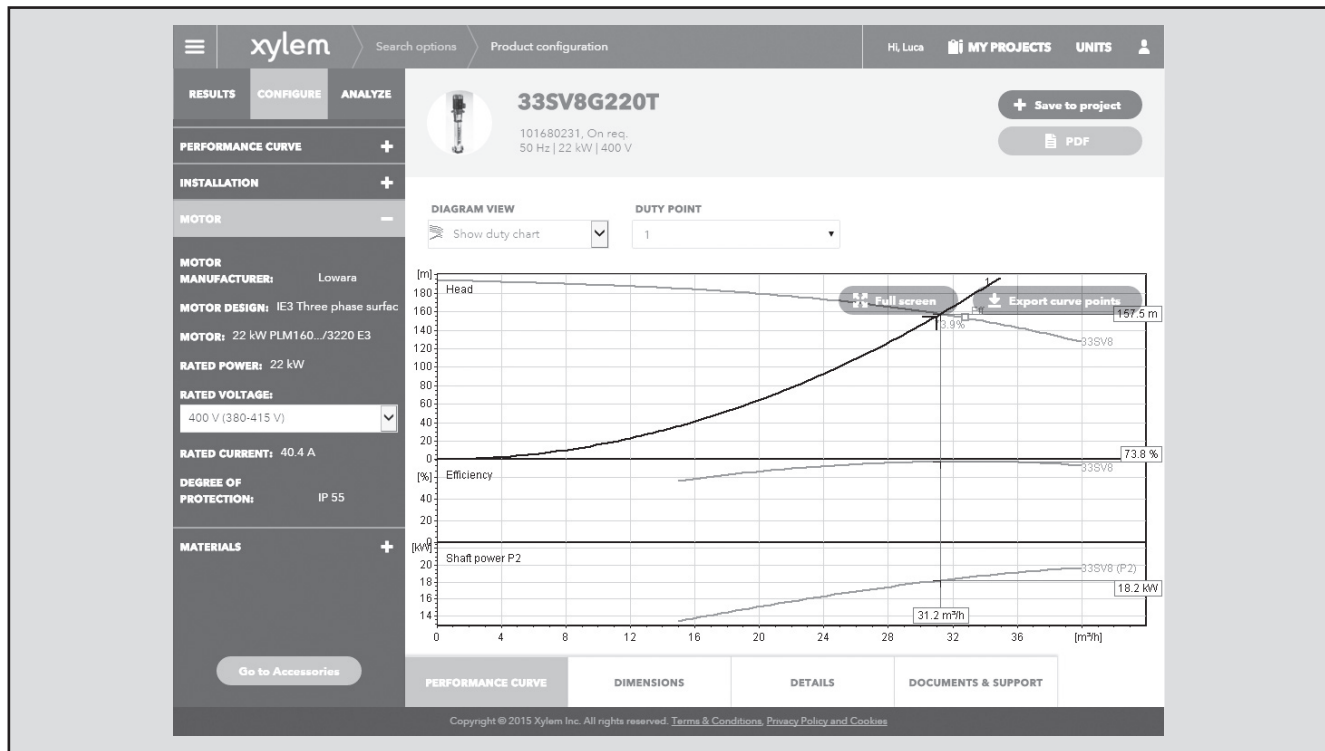
Xylect gives a detailed output:

- List with search results
- Performance curves (flow, head, power, efficiency, NPSH)
- Motor data
- Dimensional drawings
- Options
- Data sheet printouts
- Document downloads incl dxf files



*The search by application guides users not familiar with the product range to the right choice.*

## FURTHER PRODUCT SELECTION AND DOCUMENTATION Xylect



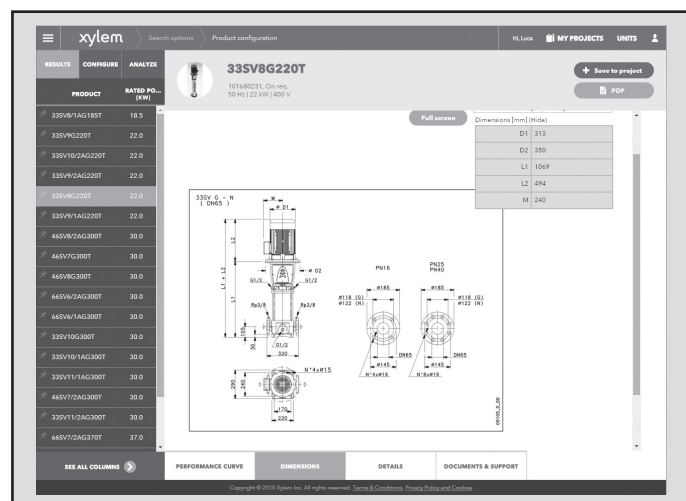
The detailed output makes it easy to select the optimal pump from the given alternatives.

The best way to work with Xylect is to create a personal account. This makes it possible to:

- Set own standard units
- Create and save projects
- Share projects with other Xylect users

Every registered user has a proper space, where all projects are saved.

For more information about Xylect please contact our sales network or visit [www.xylect.com](http://www.xylect.com).



Dimensional drawings appear on the screen and can be downloaded in dxf format.







# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com).**



For information and technical support  
Xylem Service Italia Srl

Via Dottor Vittorio Lombardi 14  
36075 - Montecchio Maggiore (VI) - Italy  
Tel. (+39) 0444 707111  
Fax (+39) 0444 491043

[www.xylem.com/lowara](http://www.xylem.com/lowara)

Xylem Service Italia Srl reserves the right to make modification without prior notice.  
Lowara, Xylem are trademarks of Xylem Inc. or one of its subsidiaries  
© 2021 Xylem, Inc.