## ZS\_SRZS series pumps

The ZS\_SRZS side channel centrifugal pumps are multicellular self-priming side channel pumps with low NPSH. This range of pumps allows conveying liquids containing gas and has a centrifugal booster impeller.

This pump combines the advantages of a centrifugal pump with a side channel pump.

This pump technology has the advantage of combining low NPSH values and self-priming qualities (*including with biphasic mixes*), along with the advantage of not stalling in the event of cavitation.

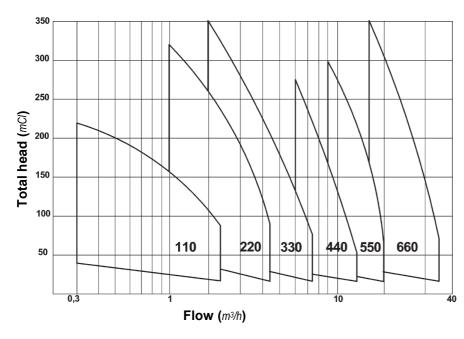
### **LIMITS OF USE**

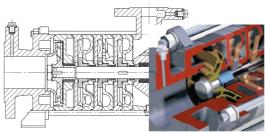
Flow rate: 0.3 m3/h to 35 m3/h
Total head: 5 to 350 mCl
Operating temperature: -40 to 220°C
Operating pressure: <40 bar</li>
Speed: <1750 rpm</li>

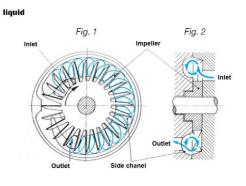
ATEX certification: (Ex) II 2 G II B T3/T4

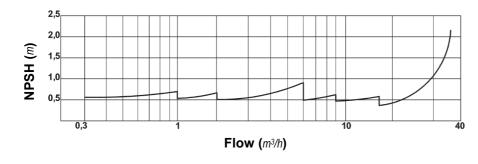


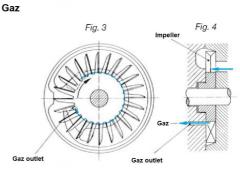
### **SELECTION CURVES**











### **BUSINESS ACTIVITIES AND PRINCIPAL USE**

Chemical and fine chemicals industries - Pharmaceutical industry - Cosmetic industry - Paper-making industry - Automotive industry - Metalworking industry - Integration companies - Transferring corrosive liquids or solvents - Tank unloading - General use, etc.

### **SPECIFICATIONS**

### Basic components

	Material Code										
Composant	10	12	32	60	62						
Suction casing	Cast iron FT25	Cast iron FT25	SS 316L	Cast iron GS	Cast iron GS						
Discharge casing	Cast iron FT25	Cast iron FT25	SS 316L	Cast iron GS	Cast iron GS						
Stage casing	Cast iron FT25	Cast iron FT25	Duplex - 1.4470	Cast iron GS	Cast iron GS						
Side Channel casing	Cast iron FT25	Cast iron FT25	Duplex - 1.4470	Cast iron GS	Cast iron GS						
Foot	Cast iron GS	Cast iron GS	Cast iron GS	Cast iron GS	Cast iron GS						
Shaft	SS 420	SS 420	SS 316Ti	SS 420	SS 420						
Impeller	Cu Zn 40 Al 1	Z20CN17.2M	SS 316Cb	Cu Zn 40 Al 1	Z20CN17.2M						
Bearing support	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20						
Bearing cover open	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20						
Bearing cover closed	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20	Cast iron FT20						
Casing gaskets	Teflon	Teflon	Teflon	Teflon	Teflon						
Bearing bush	Bronze	Carbon	Carbon	Bronze	Carbon						

# **PumpSystems**

### Pump inlet and outlet connections

Size	Inlet	Outlet
110	DN40 PN40	DN20 PN40
220	DN65 PN40	DN32PN40
330	DN65 PN40	DN32 PN40
440	DN80 PN40	DN40 PN40
550	DN100 PN40	DN50 PN40
660	DN100 PN40	DN65 PN40

45 305

45 305

15 340

340 15

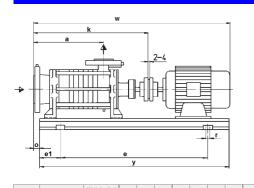
### Mechanical seal:

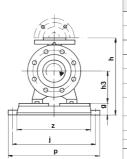
Standardised mechanical seal (DIN 24960) Simple, double back to back, tandem or quenched assembly

Non-compensated for outlet pressures less than 16 bar or compensated for pressures above . Silicon carbide on carbon with the possibility to change on request

O-ring material: According to the type of liquid conveyed, we'll adapt the type of O-ring

### OVERALL DIMENSIONS





~+h.	33
(a)	33
	33
ء ا	33
	33
2	33
	33
z	33
-	44
j	44
р	44
	44

.		100 L	2,2	33	72 76 79	253	454	25	289	112	818	550	90	45	305	340	15	730	270
1	333	100 L 100 L 112 M	2,2 3 4	36	79 83 97	293	494	25	289	112	858 875	650	100	45	308	340	15	850	280
Ī	334	100 L 112 M 132 S	3 4 5,5	39	86 100 126	333	534	25	289 314	112 132	898 915 982	650 730	100 150	45 50	308 385	340 420	15 18	850 1030	280 320
	335	112 M 132 S 132 M	4 5,5 7,5	42	108 129 143	373	574	25	294 314	112 132	955 1022 1060	730	150	50	385	420	18	1030	320
	336	112 M 132 S 132 M	5,5 7,5	45	111 132 146	413	614	25	294 314	112 132	995 1062 1100	730	150	50	385	420	18	1030	320
	337	112 M 132 S 132 M 160 M	5,5 7,5	48	114 135 149 191	453	654	25	294 314	112 132	1035 1102 1140 1238	730	150	50	385	420	18	1030	320
+	338	160 M 132 S 132 M	5,5 7,5	51	191 138 157	493	694	25	347 314 319	160	1142	930 730	150 150	55 50	400 385	445 420	20 18	1230 1030	340 320
-	441	160 M	11	36	194 69 75	268	464	35	349	160 132	1180 784	930 550	150 90	55 45	400 305	445 340	20	1230 730	340 270
ŀ	442	100 L 100 L 112 M	1,5 2,2 3 4	42	75 89 103	323	519	35	317	132	828 883 900	650	100	45	308	340	15	850	280
ı	443	112 M	4		109				317		955	650	100	45	308	340	15	850	280
ļ		132 S 132 M	5,5 7,5	48	135	378	574	35	322	132	1022 1060 1077	730	150	50	385	420	18	1030	320
	444	132 M	5,5 7,5	54	141 155 197	433	629	35	322	132	1115	730	150	50	385	420	18	1030	320
-	445	160 M	7,5						355 327 355	160	1168	930		55	400	445	20	1230	340
ŀ	446	132 M 160 M	7.5	60	166 203 172	488	684	35	355 327	132 160 132	1132 1268 1225 1230	930	150	55	400	445	20	1230	340
		160 M 160 L	15	66	209	543	739	35	355	160	1367	930	150	55	400	445	20	1230	340
	447	160 M 160 L	11	72	238 264	598	794	35	400	160	1378 1422	940	230	100	550	590	28	1400	490
	448	160 M 160 L 180 M	11 15 18,5	78	244 270 302	653	849	35	400	160 180	1433 1477 1500	940	230	100	550	590	28	1400	490
	551	100 L 112 M	3	59	106 120	305	543	40	370	160	907 924	650	100	45	308	340	15	850	280
	552	132 S 132 M 160 M	5,5 7,5	69	156 170 212	380	618	40	375 380	160	1066 1104 1202	730 930	150	50 55	385 400	420 445	18	1030 1230	320 340
İ	553	132 M 160 M 160 L	7,5 11 15	79	185 222 248	455	693	40	380	160	1179 1277 1321	930	150	55	400	445	20	1230	340
- 1	554	160 M			232				380 425	160	1352	930	150	55	400	445	20	1230	340
		160 L 180 M	15 18,5	89	281 313	530	768	40	445	180	1396 1419	940	230	100	550	590	28	1400	490
	555	160 L 180 M 180 L	15 18,5 22	99	291 323 342	605	843	40	425	160	1471 1494 1532	940	230	100	550	590	28	1400	490
	556	160 L 180 M	15	109	301 342 361	680	918	40	425	160	1546 1569	940	230		550	590		1400	490
		180 L 200 L	15 18,5 22 30	109	428	000	710	40	445 465	180 200	1607 1657	1060	270	100	600	640	28	1600	540
	557	180 M 180 L 200 L	18,5 22 30	119	352 371 438	755	993	40	445 465	180 200	1644 1682 1732	1060	270	100	600	640	28	1600	540
	558	180 M 180 L 200 L	18,5 22 30	129	362 381 453	830	1068	40	445 465	180 200	1644 1682 1732	1060	270 300	100	670	640 710	28	1600	540 610
İ	661	132 S 132 M	5,5 7,5	80	167	338	600	45	410	180	1047 1085	730	150	50	385	420	18	1030	320
İ	662	160 M	11,00	92	235 262 329	428	690	45	415	180	1273	930	150	55	400	445	20	1230	340
Ī	663	180 M 180 L	18,5	105	329	518	780	45	460	180	1430	940	230	100	550	590	28	1400	490
Ī	664	180 L 200 L	22 22 30	117	350 362 436	608	870	45	460 480	180 200	1468 1558 1608	940 1060	230 270	100	550 600	590 640	28	1400	490 540
Ī	665	200 L 225 S	30 37	130	449 490	698	960	45	480 505	200 225	1698 1760	1060	270	100	600	640	28	1600	540
İ	666	200 L 225 S 225 M	30 37 45	142	461 507 579	788	1050	45	480 505 505	200 225	1788 1850 1875	1060 1200	270 300	100	600 670	640 710	28	1600 1800	540 610
ŀ	667	200 L 225 S 225 M	30 37 45 55	155	479 520 592	878	1140	45	480 505	200 225	1878 1940 1965	1200	300	100	670	710	28	1800	610
ļ	//0	250 M	55	1/7	692	968	1000	15	530	250	2003	1.400	000	100	(70	710	20	2000	(10
	668	225 S 225 M 250 M	37 45 55	167	538 610 710	968	1230	45	505 530	225 250	2030 2055 2093	1400	300	100	670	710	28	2000	610

25

25

213 424

253 454

33

289 112 710 735 289 112 818

550

550

90

Size	Mo	otor		ht (kg)				١.										
	Size	Power		Group	a	k	0	h	h3	w	e	el	9	i i	P	r	У	Z
111	71 80	0,37	16	35 37	195	367	25	240	100	599 635	445	77,5	40	255	290	15	600	23:
112	80 80 90 S	0,55 0,75 1,1	18	45 46 48	229	401	25	245	100	669 695	550	90	45	305	340	15	730	27
113	80 90 S 90 L	0,75 1,1 1,5	20	48 50 53	263	435	25	245	100	703 730 755	550	90	45	305	340	15	730	27
114	90 S 90 L 100 L	1,1 1,5 2,2	22	52 55 61	297	469	25	245	100	763 789 833	550	90	45	305	340	15	730	27
115	90 S 90 L 100 L	1,1 1,5 2,2	24	54 57 67	331	503 508	25	245	100	797 823 872	550 650	90 100	45	305 308	340	15	730 850	27
116	90 L 100 L 100 L	1,5 2,2 3	26	63 69 73	365	537 542	25	245	100	857 906	650	100	45	308	340	15	850	28
117	90 L 100 L 100 L 112 M	1,5 2,2 3 4	26	65 71 75 89	399	571 576	25	245 257	100	940 957	650	100	45	308	340	15	850	28
118	100 L	2,2 3	30	78 82 96	433	610	25	250 262	100	974 991	730	150	50	385	420	18	1030	32
221	80 80 90 S 90 L	0,5 0,75 1,1 1,5	30	57 58 60 63	213	414	25	289	112	683 710 735	550	90	45	305	340	15	730	23
222	90 S 90 L 100 L	1,1 1,5 2,2	33	63 66 72	253	454	25	289	112	750 774 818	550	90	45	305	340	15	730	2
223	90 L 100 L 100 L 112 M	1,5 2,2 3 4	36	69 79 83 97	293	491	25	289	112	814 858 873	550 650	90 100	45	305	340	15	730 850	21
224	100 L 100 L 112 M 132 S	2,2 3 4 5,5	39	82 86 100 126	333	534	25	289	112	915 985	650	100	45 50	308	340 420	15	850 1030	3
225	100 L 112 M 132 S	3 4 5,5	42	94 108 129	373	574	25	294	112	938 955 1022	730	150	50	385	420	18	1030	3
226	112 M 132 S 132 M	5,5 7,5	45	111 132 146	413	614	25	294 314	112	995 1062 1100	730	150	50	385	420	18	1030	3
227	112 M 132 S 132 M	5,5 7.5	48	114 135 149	453	654	25	294 314	112 132	1035 1102 1140	730	150	50	385	420	18	1030	3
228	132 S 132 M 160 M	5,5 7,5	51	138 157 194	493	694	25	314 319 347	132	1142	730 930	150 150	50 55	385 400	420 445	18 20	1030 1230	3

T F	4L I	IVU	MDER												
ZS_	SRZ	33	2	W	G15	Т	-	32	-	3	-	4	1	-	27135
	Туре	Size	N° of stage	Ball bearing	Montaje de estanqueidad	Mechanical seal gasket	П	Material code	П			Motor		Τ	Serial N°
		11	1	w 1	G11 Unbalanced single	v FPM	-		· [	Power (kW)	П	4 4 poles (# 1450 rpm)	Protection	_	
		22	2		G12 Balanced single	E EPDM							A ATEX		
					G15 Unbalanced double	T FPM jacket PTFE							I non-ATEX		
		66	8		G16 Balanced double										
				-	Q31 Unbalanced single										
					Q32 Balanced single										

## POMPES GROSCLAUDE

Parc du chêne - 29, rue du 35ème régiment d'aviation

69 500 BRON - FRANCE (33) 4 72 37 94 00 Tel:

(33) 4 72 37 94 01 Fax: E-mail: info@pompes-grosclaude.com Web: www.pompes-grosclaude.com

