

TECHNICAL SUBMITTAL

FOR

FIRE PUMP SET

(ELECTRIC +DIESEL + JOCKEY)

(CAPACITY: **500** GPM @ **8** BAR)

(TYPE: END SUCTION)

SUBMITTED BY

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CHAPTER – 1

GENERAL DESCRIPTION

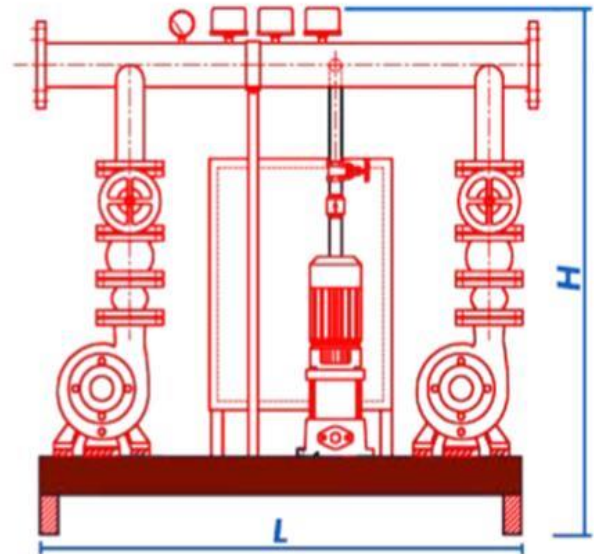
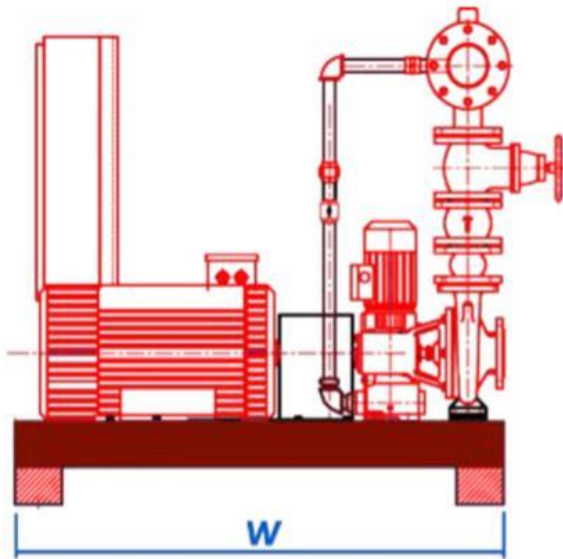
500 GPM Electric, Jockey, and Diesel pump at 8 bar

Description:

The 500 GPM (EJD) @ 8 bar fire pump is a packaged type fire pump consisting of an Electric motor driven by duty pump, Diesel engine driven by standby pump, Jockey pump, and controller/s in a common plate. Nominal performance rating is 500 GPM @ 8 BAR. The package is completed with suction and discharge line, valves, accessories, pressure switches pressure gauge and steel.

Diesel Set (Standby)		
	PUMP	Brand : OLBIN Model : --65-250/370 Type : Horizontal - End Suction - Centrifugal Pump
Diesel Set (Standby)	Diesel Engine	BRAND: TD POWER ENGINE Model: 485 Power : 46 HP RPM : 3000, Water Cooled
Jockey Pump		Brand /OLBIN Model : CDL-7A-5.5 Power : 5.5 HP Type : Vertical Multi-stage
Controller		Combined Automatic and Manual
Electric Set (Duty)	PUMP	Brand : OLBIN Model :-- 65-200/370 Type : Horizontal – End Suction - Centrifugal Pump
	Electric Motor	BRAND: PURITY MOTOR Model: IE3-200L2-2 Power : 50 HP RPM : 3500, 220-380 volts

PUMP SKID SPECIFICATIONS



type	GPM	W (MM)	H (MM)	L (MM)	MOTOR (HP)	DIESEL (HP)	JOCKEY (HP)	KG	HEADERPIPE
EDJ	1500	2300	1600	2450	150	150	15	1800	8"
EDJ	1250	2300	1600	2350	125	125	12	1700	8"
EDJ	1000	2100	1450	2250	100	100	10	1500	6"/8"
EDJ	750	1900	1400	2250	75	75	7.5	1300	6"
EDJ	500	1650	1750	1650	50	46	5.5	1200	6"
EDJ	350	1500	1350	1650	30	36	3	950	4"
EDJ	300	1500	1350	1650	30	28	3	950	4"
EDJ	250	1450	1350	1650	25	28	3	900	4"
EDJ	120/150	1250	1300	1300	12/15	10/15	3	800	2.5"OR 3"

NOTE: THESE ARE OUR STANDARD MODELES .OTHER SPECIFICATIONS ALSO AVAILABLE AS PER CUSTOMER REQUEST



CHAPTER -2

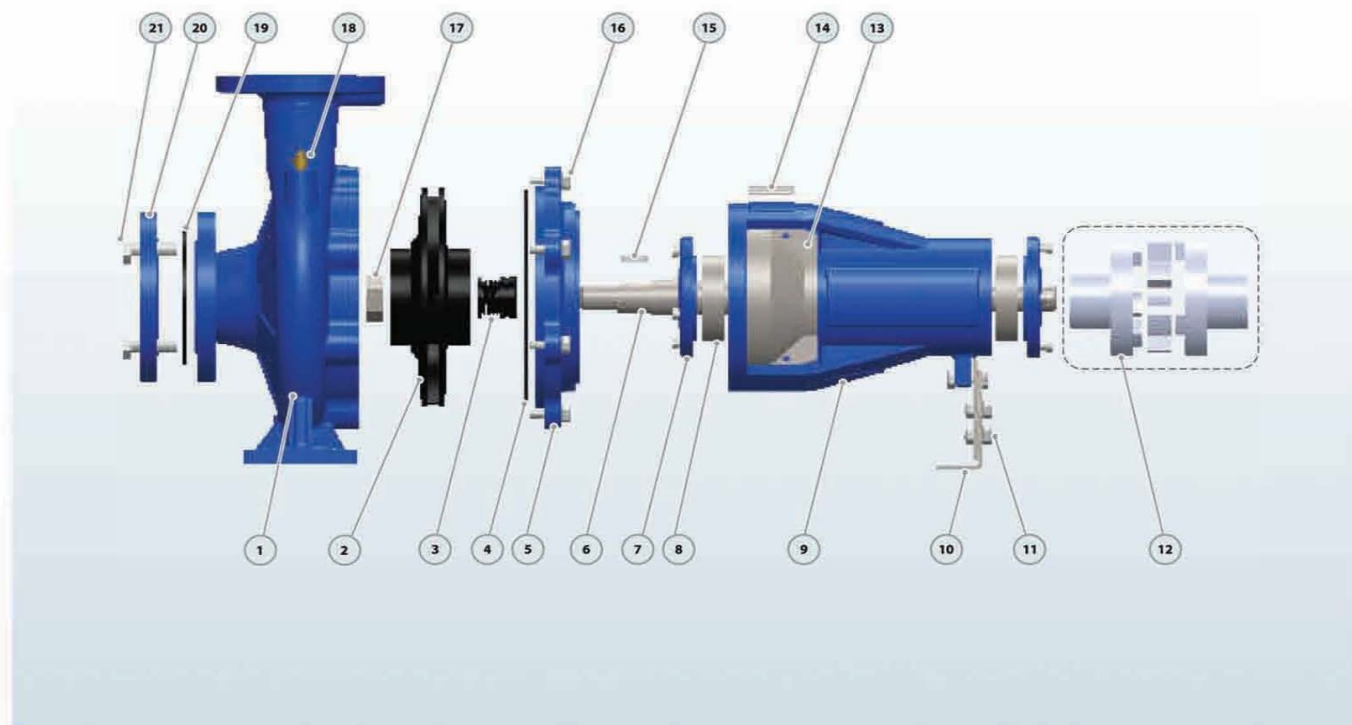
ELECTRIC PUMP

Technical Datasheet

Electric Pump

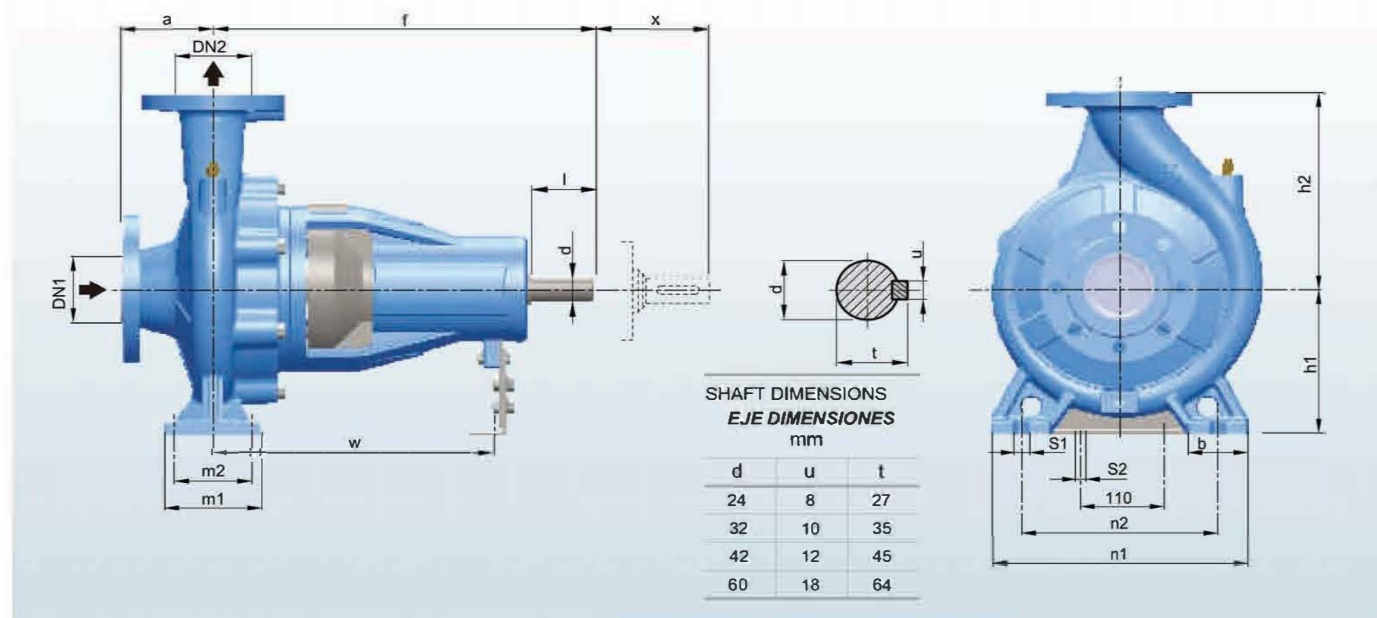
Model	:	65-200/370
Type	:	Horizontal End Suction
Rated Flow	:	500 GPM
Rated Head	:	8 Bar
Impeller Size	:	Ø200 mm
Suction / Discharge	:	Ø80/ Ø65
Rated Speed	:	3500 RPM
Casing	:	Cast Iron
Impeller Material	:	Cast Iron
Shaft	:	Stainless Steel

MATERIAL DESCRIPTION / DESCRIPCIÓN DE MATERIAL

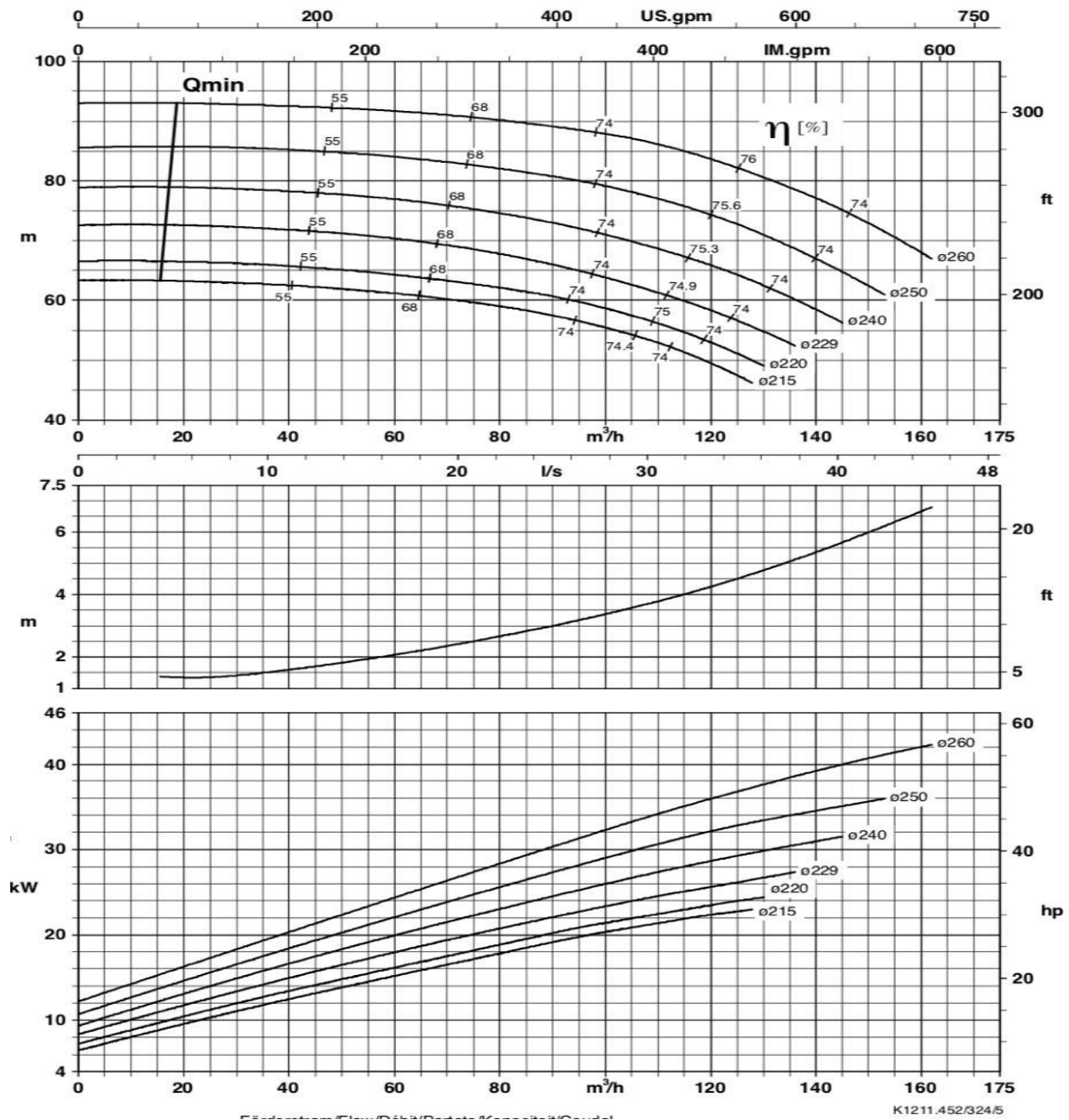


No.	Description Descripción	Material Material	No.	Description Descripción	Material Material	No.	Description Descripción	Material Material
1	Pump Case Cuerpo de Bomba	Cast iron Fundición	8	Bearing Rodamiento	Ball Bearing Bola Rodamiento	15	Impeller Key Chaveta Impulsor	Iron Hierro
2	Impeller Impulsor	SS304/Cast iron Inox 304/Fundición	9	Support Case Cuerpo Soporte	Cast iron Fundición	16	Connection Bolt Perno	Steel Acero
3	Mechanical Seal Cierre Mecánico	SiC/Carbon/SS304 SiC-Grafito-Inox304	10	Support Foot Soporte Pie	Iron Hierro	17	Impeller Nut Tuerca de Impulsor	Galvanized Steel Acero Galvanizado
4	O-ring Junta Tórica	Rubber Caucho	11	Foot Bolt Perno	Steel Acero	18	Release Valve Tapón Cebado	Brass Bronce
5	Connection Conexión	Cast iron Fundición	12	Coupling(Optional) Unión(Opcional)	Steel Acero	19	Gasket Empague	Rubber Caucho
6	Shaft Eje	SS304/45# Steel Inox 304/45# Hierro	13	Case Cover Tapa Cuerpo	SS304 Inox304	20	Counter Flange Contra Brida	Galvanized Cast iron Fundición Galvanizado
7	Bearing Cover Tapa Rodamiento	Cast iron Fundición	14	Nameplate Letrero	Aluminum Aluminio	21	Flange Bolt Perno de Brida	Steel Acero

DIMENSIONS AND WEIGHT / DIMENSIONES Y PESOS



MODEL MODELO	DIMENSIONS / DIMENSIONES mm																	kg
	DN1	DN2	a	f	h1	h2	b	m1	m2	n1	n2	s1	s2	w	x	d	l	
32-160	50	32	80	360	132	160	55	95	70	240	190	14	14	260	100	24	50	31
32-200	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	35
32-250	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	35
40-160	65	40	80	360	132	160	50	100	70	240	190	14	14	260	100	24	50	35
40-200	65	40	100	360	160	180	55	100	70	265	212	14	14	260	100	24	50	38
40-250	65	40	100	360	180	225	65	125	95	320	250	14	14	260	100	24	50	58
50-125	65	50	100	360	132	160	50	100	70	240	190	14	14	260	100	24	50	30
50-160	65	50	100	360	160	180	55	100	70	265	212	14	14	260	100	24	50	35
50-200	65	50	100	360	160	200	50	100	70	265	212	14	14	260	100	24	50	45
50-250	65	50	100	360	180	225	65	125	95	320	250	14	14	260	100	24	50	50
65-125	80	65	100	360	160	180	65	125	95	280	212	14	14	260	100	24	50	42
65-160	80	65	100	360	160	200	65	125	95	280	212	14	14	260	100	24	50	45
65-200	80	65	100	360	180	225	65	125	95	320	250	14	14	260	140	24	50	50
65-250	80	65	100	470	200	250	80	160	120	360	280	18	14	340	140	32	80	71
65-315	80	65	125	470	225	280	80	160	120	360	280	18	14	340	140	32	80	98
80-125	100	80	100	360	180	225	65	125	95	320	250	14	14	260	140	24	50	46
80-160	100	80	100	360	180	225	65	125	95	345	250	14	14	260	140	24	50	48
80-200	100	80	100	470	200	250	65	125	95	345	280	14	14	340	140	32	80	65
80-250	100	80	100	470	200	280	80	160	120	400	315	18	14	340	140	32	80	79
80-315	100	80	125	470	250	315	80	160	120	400	315	18	14	340	140	24	50	118
80-400	100	80	125	540	280	355	80	160	120	400	315	18	14	340	140	32	80	150
100-160	125	100	125	360	200	280	80	160	120	360	280	18	14	260	140	32	80	55
100-200	125	100	125	470	200	280	80	160	120	360	280	18	14	340	140	32	80	75
100-250	125	100	125	470	225	280	80	160	120	400	315	18	14	340	140	32	80	88
100-315	125	100	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	116
100-400	125	100	140	530	280	355	100	200	150	500	400	23	14	370	140	42	110	178
125-200	150	125	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	112
125-250	150	125	140	470	250	355	80	160	120	400	315	19	14	340	14	32	80	112
125-315	150	125	140	530	280	355	100	200	150	500	400	23	14	370	140	42	110	152
125-400	150	125	140	530	315	400	100	200	150	500	400	23	14	370	140	42	110	200
150-200	200	150	160	470	280	400	100	200	150	550	450	23	14	370	140	32	80	166
150-250	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	180
150-315	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	186
150-400	200	150	160	530	315	450	100	200	150	550	450	23	14	370	140	42	110	228
200-250	250	200	180	530	355	475	100	200	150	550	450	23	14	370	200	42	110	230
200-315	250	200	180	530	355	450	100	200	150	550	450	23	14	370	200	42	110	234
200-400	250	200	180	770	400	500	110	300	250	710	600	28	14	525	250	60	140	363
250-315	300	250	250	530	400	500	110	300	250	710	600	28	14	525	250	42	110	316
250-400	300	250	250	770	400	560	110	300	250	710	600	28	14	525	250	60	140	400



Model:65-200/073
60 Hz 3500 RPM



CHAPTER -3

ELECTRIC MOTOR

Technical Datasheet

Electric Motor

Make	:	OLBIN
Model	:	IE3-200L2-2
Rated Power	:	50 HP
Rated Speed	:	3500 RPM
Power Supply	:	220/380V , 60Hz , 3 Phase
Rated Current	:	117.3/67.9A
Efficiency	:	92%
Rated Torque	:	91.5 Nm



Clean



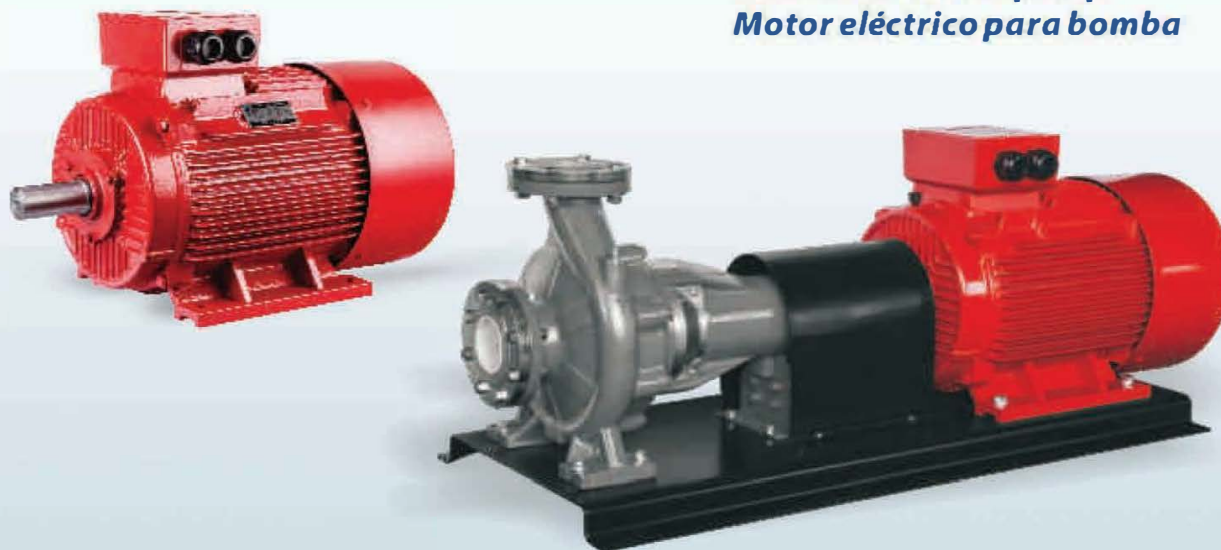
Civil



Industry

YE3

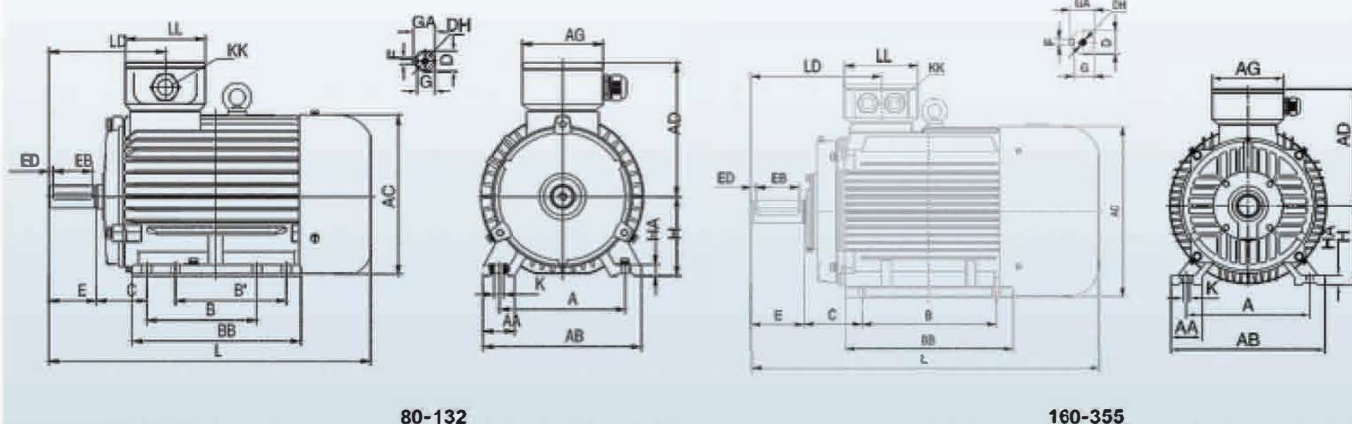
Electric motor for pump
Motor eléctrico para bomba



TECHNICAL DATA / DATOS TÉCNICOS

MODEL MODELO	Power Potencia		rpm	$\eta\%$	$\eta\%$ at 75%	$\eta\%$ at 50%	$\cos\phi$	A		Nm	Tmax/Tn	Ts/Tn	Is/n	kg
	kw	hp						220V	380V					
YE3-801-2	0.75	1	3500	80.7	80.7	79.1	0.82	3.6	1.83	2.49	2.3	2.3	7.0	18.1
YE3-802-2	1.1	1.5	3500	82.7	82.7	81.0	0.83	4.5	2.58	3.65	2.2	2.3	7.3	19.5
YE3-90S-2	1.5	2	3500	84.2	84.2	82.5	0.84	6.8	3.43	4.95	2.2	2.3	7.6	23.3
YE3-90L-2	2.2	3	3500	85.9	85.9	84.2	0.85	9.6	4.85	7.26	2.2	2.3	7.6	27.1
YE3-100L-2	3	4	3500	87.1	87.1	85.4	0.87	11.5	6.31	9.90	2.2	2.3	7.8	38.8
YE3-112M-2	4	5.5	3500	88.1	88.1	86.3	0.88	14.5	8.1	13.1	2.2	2.3	8.3	48.3
YE3-132S1-2	5.5	7.5	3500	89.2	89.2	87.4	0.88	22	11	17.9	2.0	2.3	8.3	55.1
YE3-132S-2	7.5	10	3500	90.1	90.1	88.3	0.88	28	14.9	24.4	2.0	2.3	7.9	69.2
YE3-160M1-2	11	15	3500	91.2	91.2	89.4	0.89	42	21.3	35.7	2.0	2.3	8.1	113
YE3-160M2-2	15	20	3500	91.9	91.9	90.1	0.89	54	28.8	48.6	2.0	2.3	8.1	123
YE3-160L-2	18.5	25	3500	92.4	92.4	90.6	0.89	68	34.7	60.1	2.0	2.3	8.2	142
YE3-180M-2	22	30	3500	92.7	92.7	90.8	0.89	80	41	71.1	2.0	2.3	8.2	182
YE3-200L1-2	30	40	3500	93.3	93.3	91.4	0.89	104	55.5	96.8	2.0	2.3	7.6	246
YE3-200L2-2	37	50	3500	93.7	93.7	91.8	0.89	130	67.9	119.4	2.0	2.3	7.6	265
YE3-225M-2	45	60	3500	94.0	94.0	92.1	0.90	150	82.3	144.9	2.0	2.3	7.7	323
YE3-250M-2	55	75	3500	94.3	94.3	92.4	0.90	192	101	176.9	2.0	2.3	7.7	413
YE3-280S-2	75	100	3500	94.7	94.7	92.8	0.90	245	134	240.8	1.8	2.3	7.1	546
YE3-280M-2	90	125	3500	95.0	95.0	93.1	0.90	312	160	288.9	1.8	2.3	7.1	569
YE3-315S-2	110	150	3500	95.2	95.2	93.3	0.90	400	195	352.8	1.8	2.3	7.1	897
YE3-315M-2	132	180	3500	95.4	95.4	93.5	0.90	425	233	423.3	1.8	2.3	7.1	1029
YE3-315L1-2	160	220	3500	95.6	95.6	93.7	0.91	600	279	512.8	1.8	2.3	7.2	1067
YE3-315L2-2	200	270	3500	95.8	95.8	93.9	0.91	630	349	640.9	1.8	2.2	7.2	1194
YE3-355M-2	250	340	3500	95.8	95.8	93.9	0.91	800	436	800.6	1.6	2.2	7.2	1685
YE3-355L-2	315	430	3500	95.8	95.8	93.9	0.91	990	549	1009	1.6	2.2	7.2	1734

DIMENSIONS / DIMENSIONES



MODEL MODELO	DIMENSIONS / DIMENSIONES mm																							
	A	AA	AB	AC	AD	AG	B	BB	C	D	DH	E	EB	ED	F	G	GA	H	HA	K	KK	L	LD	LL
80	125	34	160	167	147	102	100	150	50	19	M6X16	40	30	2.5	6	15.5	21.5	80	10	4-Φ10	1-M25X1.5	304	119	102
90S	140	36	176	182.4	154.5	102	100	161	56	24	M8X19	50	40	5	8	20	27	90	12	4-Φ10	1-M25X1.5	336	143	102
90L	140	36	176	182.4	154.5	102	125	186	56	24	M8X19	50	40	5	8	20	27	90	12	4-Φ10	1-M25X1.5	361	143	102
100L	160	40	200	205.4	166	102	140	213	63	28	M10X22	60	50	5	8	24	31	100	14	4-Φ12	1-M32X1.5	406	147	102
112M	190	50	240	230	188	118	140	188	70	28	M10X22	60	50	5	8	24	31	112	15	4-Φ12	2-M32X1.5	394	147	110
132S	216	55	265	258.4	203	118	140	186	89	38	M12X28	80	65	5	10	33	41	132	18	4-Φ12	2-M32X1.5	438	172	110
132M	216	55	265	258.4	203	118	178	224	89	38	M12X28	80	65	7.5	10	33	41	132	18	4-Φ12	2-M32X1.5	476	172	110
160M	254	65	314	314	251	162	210	260	108	42	M16X36	110	90	7.5	12	37	45	160	20	4-Φ14.5	2-M40X1.5	608	256	152
160L	254	65	314	314	251	162	254	304	108	42	M16X36	110	90	10	12	37	45	160	20	4-Φ14.5	2-M40X1.5	652	256	152
180M	279	70	349	355	267	162	241	311	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	688	271	152
180L	279	70	349	355	267	162	279	349	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	726	271	152
200L	318	70	388	397	299	210	305	369	133	55	M20X42	110	100	10	16	49	59	200	25	4-Φ18.5	2-M50X1.5	779	296	190
225S	356	75	431	446	322	210	286	368	149	60	M20X42	140	125	5	18	53	64	225	28	4-Φ18.5	2-M50X1.5	824	329	190
225M	356	75	431	446	322	210	311	393	149	55	M20X42	110	100	7.5	16	49	59	225	28	4-Φ18.5	2-M50X1.5	819	299	190
250M	406	80	484	485	358	248	349	445	168	60	M20X42	140	125	7.5	18	53	64	250	30	4-Φ24	2-M63X1.5	910	347	218
280S	457	85	542	547	387	248	368	485	190	65	M20X42	140	125	7.5	18	58	69	280	35	4-Φ24	2-M63X1.5	982	355.5	218
280M	457	85	542	547	387	248	419	536	190	65	M20X42	140	125	7.5	18	58	69	280	35	4-Φ24	2-M63X1.5	1033	355.5	218
315S	508	120	628	620	527	320	406	570	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1194	397	280
315M	508	120	628	620	527	320	457	680	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1304	397	280
315L	508	120	628	620	527	320	508	680	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1304	397	280
355M	610	116	726	698	642	380	560	750	254	75	M20X42	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63X1.5	1486	414	330
355L	610	116	726	698	642	380	630	750	254	75	M20X42	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63X1.5	1486	414	330

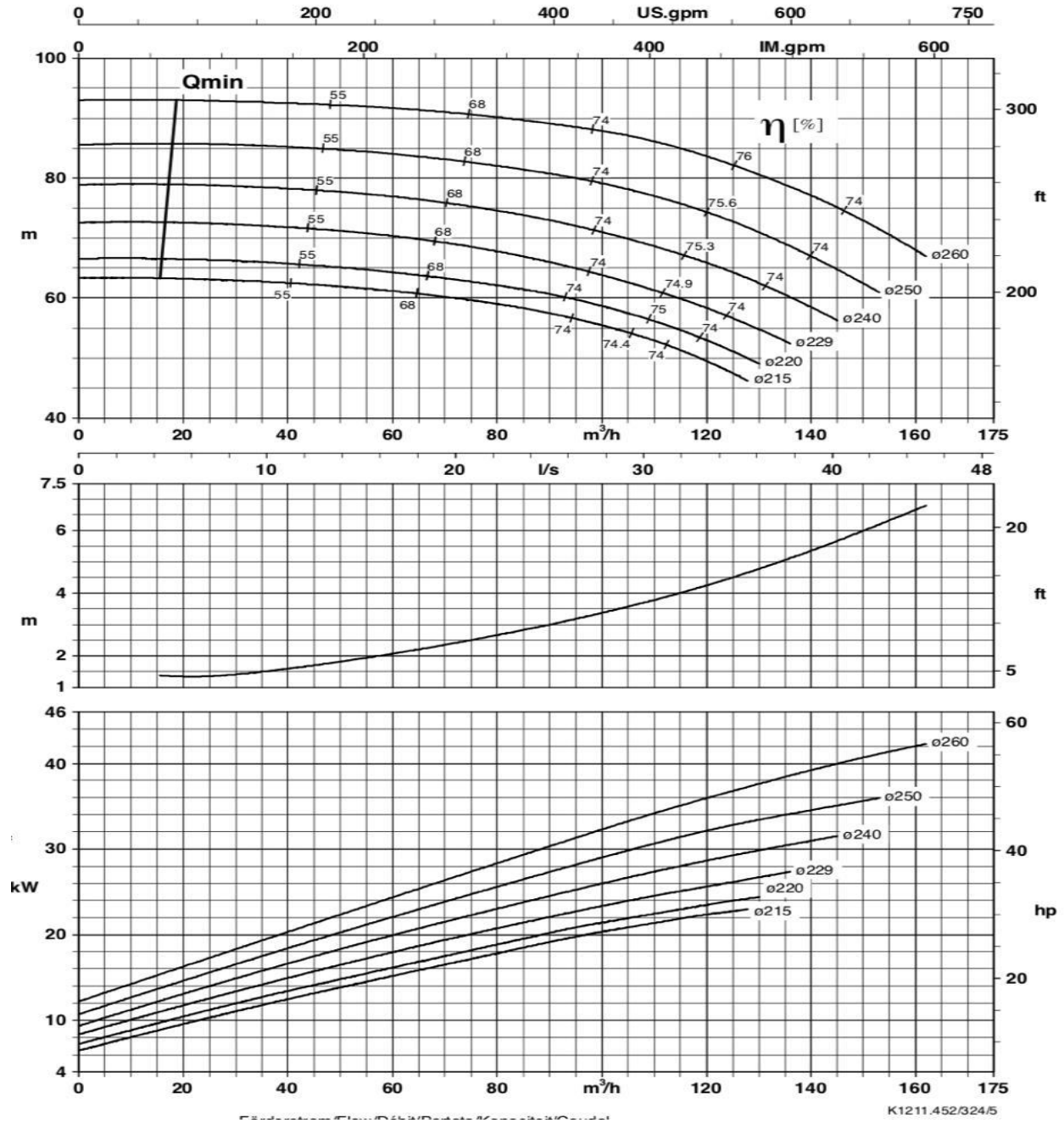
CHAPTER -4

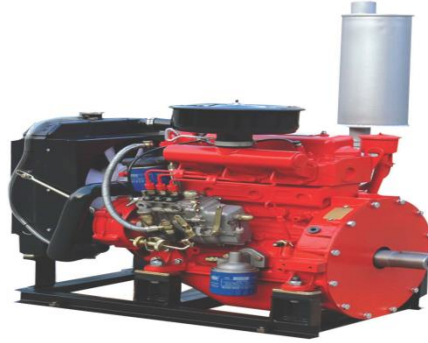
DIESEL PUMP

Technical Datasheet

Diesel Pump

MODEL	:	-65-250/370
Type	:	End Suction
Rated Flow	:	500 GPM
Rated Head	:	8 Bar
Impeller Size	:	Ø250 mm
Suction / Discharge	:	Ø80/ Ø65
Rated Speed	:	0333 RPM
Casing	:	Cast Iron
Impeller Material	:	Cast Iron
Shaft	:	Stainless Steel





CHAPTER -5

DIESEL ENGINE

Technical Datasheet

Diesel Engine

Make	:	<i>TD POWER</i>
Model	:	485
Rated Power	:	– 46 HP
Rated Speed	:	3000 RPM
No. of Cylinders	:	4
Cooling System	:	Vertical Water Cooling

Note:

Lube oil should be changed after 250 hours or 6 months whichever is earlier.

PD



Clean



Civil



Industry

Diesel engine for pump
Diesel para bomba



NEW / NUEVO

TECHNICAL DESCRIPTION / DESCRIPCIONES TÉCNICAS

-  ► More Environmentally Friendly
- Meeting China III Emission Standard
- Low Fuel Consumption
- Strong Power
- Easy To Assemble
-  ► Más Respetuoso Del Medio Ambiente
- Cumplir Con El Estándar De Emisión De China III
- Bajo Consumo De Combustible
- Gran Poder
- Fácil De Montar

APPLICATIONS / APLICACIONES

-  Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The diesel engine pumps are recommended for use in water supply, cleaning sets, pressure boosting, firefighting sets, irrigation, industrial applications, water circulation in climatisation sets, agricultural.
 -  Son recomendadas para bombear agua limpia, sin partículas abrasivas y líquidos químicamente no agresivos con los materiales que constituyen la bomba.
- Las Bombas diesel según EN733 diseñadas para abastecimiento hídrico, instalaciones de lavado, presurización, contraincendio, irrigación, industria, circulación del agua, agricultura.*

USING LIMITS / LÍMITES DE UTILIZACIÓN

-  Liquid temperature between **-10°C** and **+120°C**
Ambient temperature up to **+50°C**
Max. working pressure **16 bar**
Continuous service **S1**
-  Temperatura del líquido de **-10 °C** hasta **+120 °C**
Temperatura ambiente hasta **+50 °C**
Presión máxima en el cuerpo de la bomba **16 bar**
Funcionamiento continuo **S1**

TECHNICAL DATA / DATOS TÉCNICOS

Model	178	186	188	192	380	385	480	485	490N	490	495
Type	Single-cylinder,4-stroke,air-cooled				Direct Injection, Water-cooling, Four Stroke						
Intake Type	Naturally Aspirated										
Bore*Stroke(mm*mm)	78*62	86*72	88*75	92*75	80*90	85*90	80*90	85*100	90*100	90*105	95*105
Cylinder No.	1	1	1	1	3	3	4	4	4	4	4
Displacement (L)	0.296	0.418	0.456	0.499	1.357	1.532	1.8	2.27	2.54	2.67	2.977
Rated Power/ Speed(kW/r/min)	3.7/3000 4.0/3600	5.7/3000 6.3/3600	6.6/3000 7.2/3600	7.5/3000 8.2/3600	20/3000	24/3000	28/3000	36/3000	42/3000	45/3000	50/3000
Horse Power	5.0/3000 5.5/3600	7.8/3000 8.6/3600	9.0/3000 10.0/3600	10.2/3000 12.0/3600	27	32	38	49	58	61	68
Power Coverage(kW)	≤11	≤11	≤11	≤11	≤37	≤37	≤37	≤55	≤55	≤55	≤75

Model	498	4102	4105	4108	485Z	490NZ	490Z	498Z	4102Z	4105Z	4108Z
Type	Direct Injection, Water-cooling, Four Stroke										
Intake Type	Naturally Aspirated				Turbo-charging						
Bore*Stroke(mm*mm)	98*105	102*118	105*118	108*118	85*100	90*100	90*105	98*105	102*118	105*118	108*118
Cylinder No.	4	4	4	4	4	4	4	4	4	4	4
Displacement (L)	3.168	3.857	4.087	4.324	2.27	2.54	2.67	3.168	3.857	4.087	4.324
Rated Power/ Speed(kW/r/min)	54/3000	62/3000	67/3000	73/3000	44/3000	50/3000	55/3000	60/3000	73/3000	75/3000	83/3000
Horse Power	73	85	91	99	60	68	75	81	99	102	113
Power Coverage(kW)	≤75	≤100	≤100	≤100	≤55	≤55	≤55	≤75	≤100	≤100	≤100

60Hz



CHAPTER -6 **JOCKEY PUMP** **Technical Datasheet**

Jockey Pump

<u>Jockey Pump:</u>		
Make	:	<i>OLBIN</i>
Model / Series	:	CDL-7A-5.5
Type	:	Vertical Multi-stage
Rated Flow	:	60 GPM
Rated Head	:	8 Bar
Suction / Discharge	:	Ø50/ ø50
Rated Speed	:	3500 RPM, 60Hz
<u>Motor:</u>		
Type	:	<i>OLBIN</i>
Power Supply		220-380V, 60 Hz, 3 Phase
Rated Power		5.5 HP
Rated Speed		3500 RPM

OLBIN PUMP & MOTOR

CDL-A

FEATURES

- Low energy consumption
Pumps have an extra-high efficiency obtained by the most up to date technical designs, moulding and accurate set up.
- Steady operation
A steep flow curve allows large head changes with minimal rate of flow changes.
- Noiseless operation
Material used, low tip speed of the rotating parts and its ample supports, insure noise and vibration free running.
Mechanical seal replacement
Easy to do, without pump removal; just remove the electric motor and coupling.
- Safety
A coupling safety screen avoid accidents.

APPLICATIONS

The pump's noiseless running, high efficiency limited size and steep flow curve make this electric pump particularly suitable for lifting and boosting systems with or without autoclave, washing plants, small irrigation systems, etc.

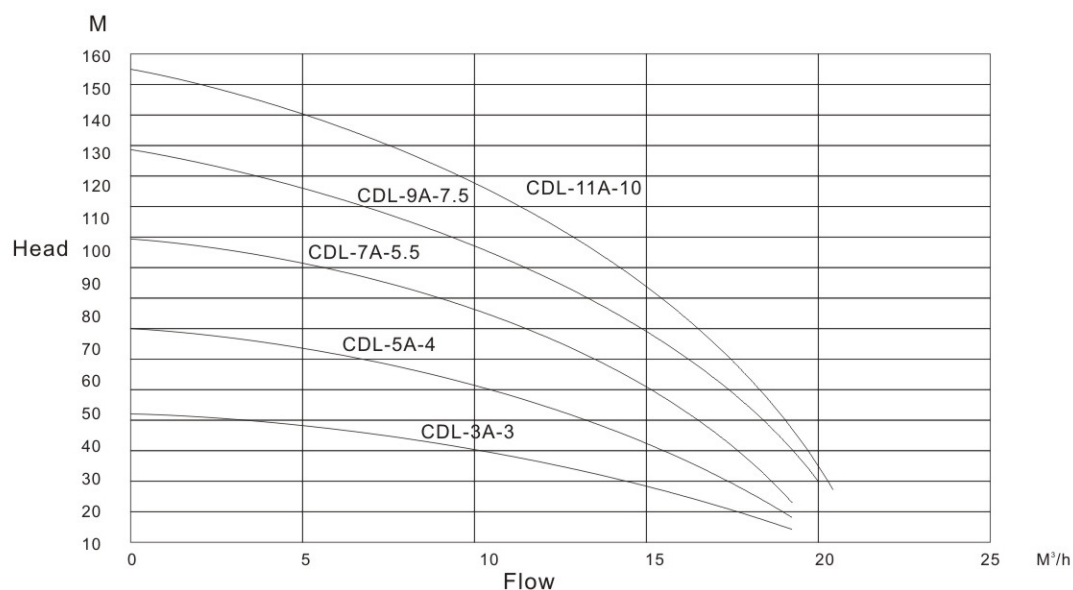
OPERATING LIMITS PUMP

Water or liquid pumped must be chemically and mechanically non-aggressive

Maximum temperature of pumped liquids: 60°C (140° F)

Maximum running time with close delivery outlet: 2min.

60Hz



60HZ

Model	Power		Volt	Flow	Head	Pump dia	PACKAGE DIMENSIONS & GW			
	HP	KW					L	W	H	Kg
CDL-3A-3	3	2.2	220V/380V 60HZ 110V 60HZ	10	30	2"	270	201	644	
CDL-5A-4	4	3			50				714	
CDL-7A-5.5	5.5	4			70				784	
CDL-9A-7.5	7.5	5.5			95				845	
CDL-11A-10	10	7.5			115				915	

CHAPTER -7

FIRE PUMP CONTROLLER

Technical Datasheet

Fire Pump Control Panel

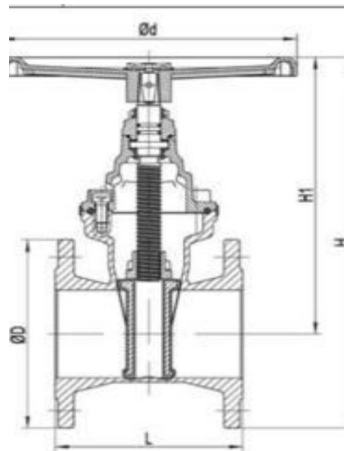
Make	:	<i>LS Korean</i>
Mounting	:	Wall / Base Mounted
Power Supply	:	220/380V, 60 Hz, 3 Phase
Starter Circuit	:	S D L
Operation	:	Combined Automatic & Manual
Protection	:	Dry Run
Enclosure	:	NFPA / IP Standard
Means of Activation	:	Isolating Switch, Pressure Switch, Selector Switch.

CHAPTER- 8

ACCESSORIES

DIN F4 Resilient seated NRS gate valve-flange end

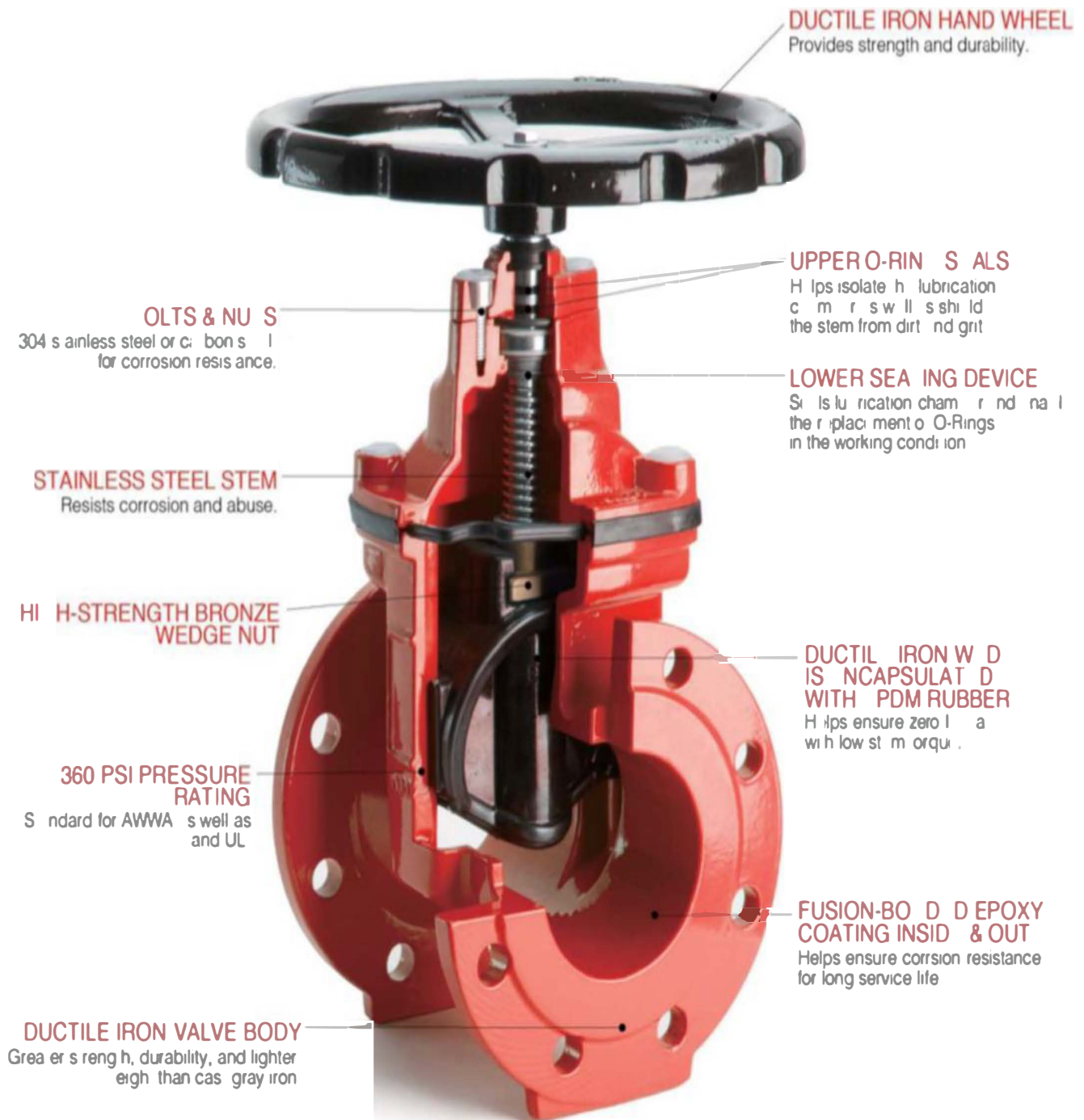
Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304, SS316, bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes: DN50~DN300
- Working pressure: P: 16/PN25
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80 °C

Dimensions		Pressure rating		Size (mm)			
DN	inch	PN	ØD	L	H1	H	Ød
50	2	16	165	150	256	338.5	203
		25					
65	2.5	16	185	170	256	348.5	203
		25					
80	3	16	200	180	273.5	373.5	203
		25					
100	4	16	220	190	323.5	433.5	300
		25	235			441	
125	5	16	250	200	376	501	300
		25	270			511	
150	6	16	285	210	423.5	566	300
		25	300			573.5	
200	8	16	340	230	530.5	700.5	406
		25	360			710.5	
250	10	16	400	250	645	845	406
		25	425			857.5	
300	12	16	455	270	725.5	953	406
		25	485			953	



XMx / XMA / XMP



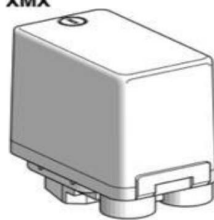
SQUARE D



Telemecanique

Pressure switches
Pressostats
Druckwaechter
Pressostatos
Pressostati
Pressostatos

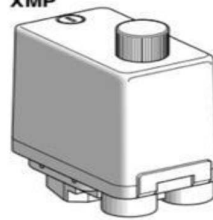
XMx



XMA

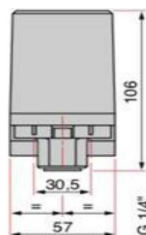
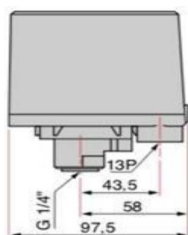


XMP

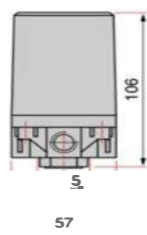
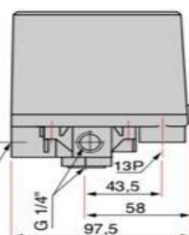


Dimensions - Encombrements - Abmessungen - Dimensiones - Dimensioni - Atravancamentos

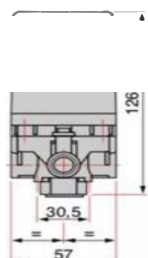
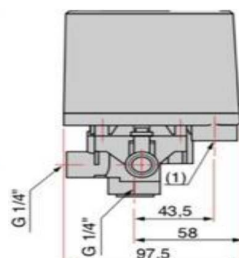
XMx/XMP-A06-21-11/A12-21-11



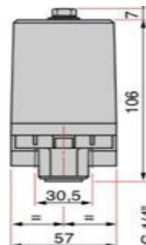
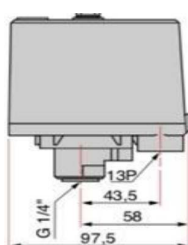
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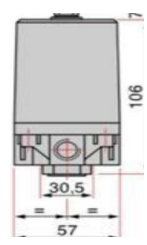
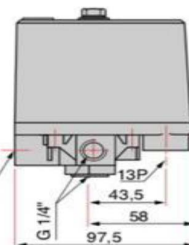
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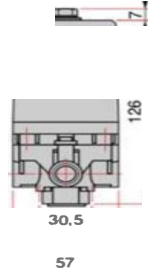
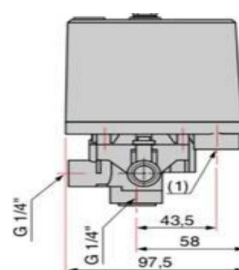
XMA-06-21-11/XMA-12-21-11



XMA-06-24-11/XMA-12-24-11



XMA-25-21-11



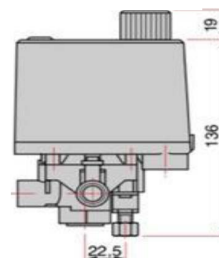
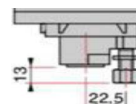
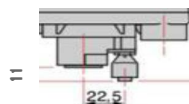
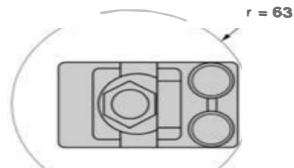
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XMP-D/E06/12-11-11-11-11-11

XMP-R06/12-11-11-11-11-11

XMP-R25-11-11-11-11-11

XMx/XMA/XMP



W9156049801

MIT detection Tome 1 / Chap. 2 / page 13

06/99

XMx / XMA / XMP



XM-e06

0.2 1 1.8 2 4 4.8 6 bar

XM-e12

0.3 2 3.6 4 8 10 10.3 bar

XM-e25

0.1 5 10 15 20.5 25 30 bar

1 : Maximum differential - **Ecart maximum** - Maximale hysteresen - Intervalos máximos - Differenziali max - intervalos máximos
 2 : Minimum differential - **Ecart minimum** - Minimale hysteresen - Intervalos mínimos - Differenziali min - intervalos mínimos

XMx/XMA

PH
PB

XMP

2 NC 3 NC
PH
PB

PH : High setting point - **Point haut** - Oberer Schallpunkt - Punto de disparo superior - Punto di scatto superiore - Ponto alto
 PB : Low setting point - **Point bas** - Unterer Schallpunkt - Punto de disparo inferior - Punto di scatto inferiore - Ponto baixo

Setting
Réglage
 Einstellungen
 Adjustes
 Regolazione
 Reglagem

XML-ZL003

Fixing bracket
Equerre de fixation
 Befestigungswinkel
 Escuadra de fijación
 Squadra de fissaggio
 Esquadro de fixação

XMA-ZL001

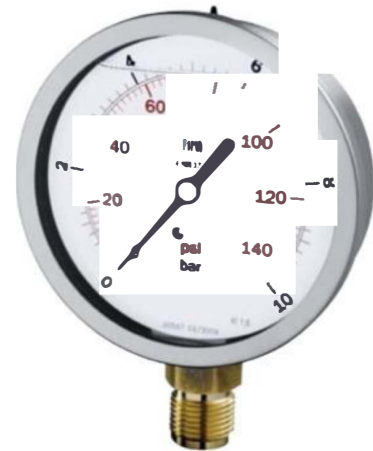
⚠ DANGER / PELIGRO / DANGER

HAZARDOUS VOLTAGE	TENSION PELIGROSA	TENSION DANGEREUSE
Disconnect all power before servicing equipment.	Desenergice el equipo antes de realizarle servicio.	Couper l'alimentation avant de travailler sur cet appareil.
Electric shock will result in death or serious injury.	Una descarga eléctrica podrá causar la muerte o lesiones serias.	Une électrocution entraînera la mort ou des blessures graves.

bourdon tube pressure gauges anti-vibration version DS 4" (100mm)



PED 2014/68/E



In truments de igned for u e on power units, pump, hydro- leaning machine pre e , engine compre sors, turbines, die el engines, chemi al, petrochemical and refrigerating plant and on machine and equipment where pul ating pre ure: or mechanical vibration are apparent. They can be u ed with ga eou or liquid media whi h do not orrode copper alloy and whi h do not have high vis oxity or do not cristalize.

1.04.2 - Ffillable Model

De ign: EN 837-1.

afety de ignation: SI a per EN 837-2.

Range : from 0...15 to 0...15000 PSI (from 0...1 to 0...1010 bar or other equivalent unit).

Accuracy cla : 1,6 as per EN 837-1.

Ambient temperature: -13...+149°F (-25...+65 °C).

Proces fluid temperature: +212°F (max +100 °C).

Thermal drift: max ±0,4%/10 of ranges (starting from 68°F-21).

Working pres ure:

75% of F V for tat' pres ure;

66% of F V for pul ating pres ure.

Overpres ure (max 15 min):

of ranges ≤ 1500 psi (100 bar);

15% of FSV for range over 1500 psi (100 bar).

Protection degree: IP 67 a per IEC 529.

ocket material: copper alloy, with internal restrictor ø 0.03" (0,8 mm)

Bourdon tube:

copper alloy for range ≤ 10000 psi (600 bar);

AISI 316L st.st. for range 15000 psi (1000 bar).

a e: tainle steel.

Ring: stainle steel, crimped.

Window: tempered gla .

Movement: copper and tainle s steel.

Dial: aluminium, white with black markings

Pointer: not adjustable, aluminium, black

1.04.3 - Filled Model

Damping liquid: glycerine 98%, silicon oil.

Ambient temper ture:

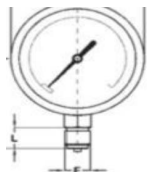
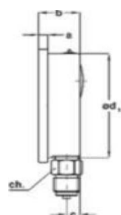
+32...+149 °F (0...+65 °C) with glycerine filling;

-40...+149 °F (-40...+65 °) with ilicon oil filling.

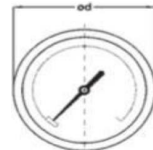
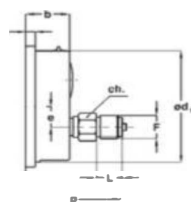
Proces fluid temperature: max+149°F (+65°) .

Other featur : a Ffillable Model.

25% of F V



- LOWER CONNECTION



D - BACK CONNECTION

Mounting	F	a	b	c	d	d	e (3)	h	p	ch	L	Weight
Lower	41 - 1/2 A	0.29"	1.33"	0.43"	4.33"	3.97"		3.42"		0.86"	0.78"	0.88 lbs (1)
	43M - 1/2-14 NPT	(7,5)	(34)	(11)	(110)	(101)		(87)		(22)	(20)	(0,4 kg)
Back	41M - 1/2 A	0.29"	1.33"		4.33"	3.97"	0.73"		2.95"	0.86"	0.78"	0.79 lbs (2)
	43M - 1/2-14 NPT	(7,5)	(34)		(110)	(101)	(18,5)		(75)	(22)	(20)	(0,36 kg)

(1) Add 0.5 lbs (0,23 kg) when filled - (2) Add 0.53 lbs (0,24 kg) when filled

OPTIONS

Model	fillable	filled
B - "U"-clamp, for back connection pressure gauges	♦	♦
C - Back flange, for lower connection pressure gauges	♦	♦
E - Front flange, for back connection pressure gauge	♦	♦
P01 - Suitable for filling with silicone	♦	
S06 - Restrictor plug ϕ 0.01" (0,4 mm)	♦	♦
S10 - Silicone filling		♦

"HOW TO ORDER" EQUENC

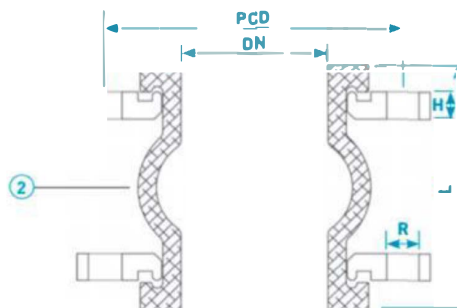
ection / Model / Case / Mounting / Diameter / Range / Process / Connection / Option
 1 04 2 A E 41M B, E
 3 D 43M P01...S10

SINGLE-SPHERE FLANGED RUBBER EXPANSION JOINT

COMPLY WITH BS4504:SECTION3.2:1989

FLUID & APPLICATION:

Air, Compressed Air, Pure Water and Sea Water.



CROSS SECTIONAL VIEW

STANDARD SPECIFICATIONS

Nominal Pressure	PN16
Scaling Test Pressure	1.76Mpa
Strength Test Pressure	2.4Mpa
Operating Temperature	-15~+115°C

COMPONENT PARTS

ITEM	PARTS	MATERIAL
1	Flanges	Galvanized Iron
2	Elastomer	Nitrile Rubber

DIMENSIONS

STOCK CODE	SIZE (mm)	L (mm)	H (mm)	NOs OF HOLES	R (mm)	PCD (mm)	WEIGHT (kg)
FEJ42	40	95	16	4	18	110	2.20
FEJ50	50	105	18	4	18	125	3.10
FEJ65	65	115	18	4	18	145	4.20
FEJ80	80	135	20	8	18	160	5.00
FEJ100	100	150	20	8	18	180	6.20
FEJ125	125	165	22	8	18	210	9.10
FEJ150	150	180	22	8	23	240	11.20
FEJ200	200	210	24	12	23	295	15.80
FEJ250	250	230	26	12	27	355	21.30
FEJ300	300	245	26	12	27	410	25.50

Scope of the Line: Globe Style Check Valve –

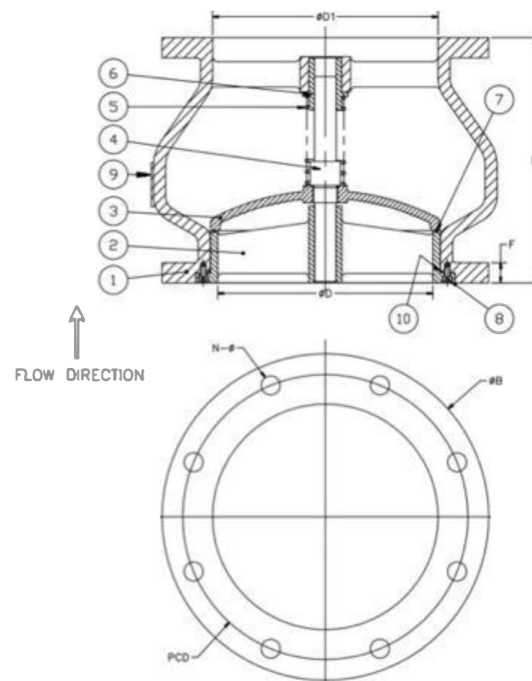
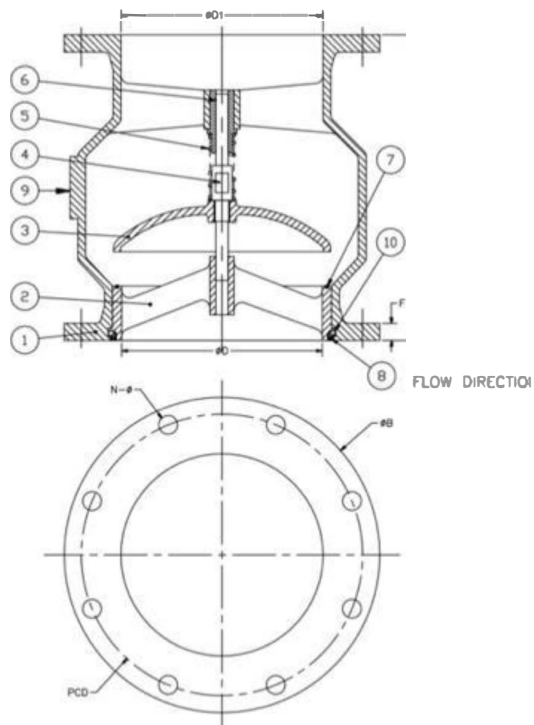


Body:	Ductile Iron ASTM A-536 Gr 65-45-12
Disc:	304 Stainless Steel
Seat:	304 Stainless Steel/EPDM
Spring:	316 Stainless Steel (2" - 16") 304 Stainless Steel (18" - 24")
Rating:	250 psi
Flanges:	ASME B16.1 CL.125
Coating:	Fusion Bonded Epoxy (interior and exterior)
Availability:	2" thru 24"

Globe Style Check Valve: Technical Specifications

Check valve shall be of the silent operating type and the same size as the entering pipe. Globe style shall be rated for 250PSI service, have a Ductile Iron body (ASTM A-536 65-45-12), 125# ANSI Flat Face Flanges, ASTM A313 Type 304 Stainless Steel helical or conical spring, a Stainless Steel (ASTM type 304) seat and dual guided disc (top and bottom), 304 Stainless Steel guide bushing and type 304 Stainless Steel guide pins. Check valve to have a minimum open area in the body of 110% of the area of the entering or corresponding pipe. Valve is to operate silently in either vertical or horizontal positions, flow up or down. Globe style check valve shall be Pra Series 821G as manufactured by Henry Pratt Company.

Globe Style Check Valve – ٢



2" - 12"

Size	L	#D	#D1	F	#B	PCD	N-#	Weight (lbs)
2"	5.24	2.20	2.36	0.63	6.00	4.75	4-0.75	16.50
2.5"	5.50	2.87	2.95	0.69	7.00	5.50	4-0.75	20.00
3"	6.00	3.35	3.54	0.75	7.52	6.00	4-0.75	26.50
4"	7.25	4.17	4.33	0.75	9.00	7.50	8-0.75	35.50
6"	9.75	6.06	6.30	0.75	11.00	9.50	8-0.875	64.00
8"	12.50	8.19	8.11	0.79	13.50	11.75	8-0.875	128.00
10"	15.50	10.16	10.23	0.87	16.00	14.25	12-1	174.50
12"	14.25	12.13	12.2	0.98	19.00	17.00	12-1	249.50

Valve Size	Max. Allowable ID of Fig	STD Ring Gasket Dimensions	
		Gasket I.D.	OD for 125 lb Globe Type
2"	5.24	2.20	2.36
2.5"	5.50	2.87	2.95
3"	6.00	3.35	3.54
4"	7.25	4.17	4.33
6"	9.75	6.06	6.30
8"	12.50	8.19	8.11
10"	15.50	10.16	10.23
12"	14.25	12.13	12.2

* Gasket supplied by others