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# کاتالوگ محصولات

شرکت ایمن داتیس آسیا

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ساعت ۹ الی ۱۱ (روزهای کاری)

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دارای تاییدیه های UL/FM



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## درباره ایمن داتیس آسیا

شرکت ایمن داتیس آسیا با اتکا بر دانش روز، فعالیت مستمر و با همکاری نیروهای فوق تخصص، هم اینک در زمره شرکت های برتر بخش خصوصی در زمینه صنعت ایمنی و آتش نشانی شناخته می شود. این مجموعه همواره در تلاش است که به صورت مستمر و پویا در گسترش زیرساخت های ایمنی و آتش نشانی کشور عزیزمان ایران ایفای نقش نموده و در راستای تحقق اهدافی همچون توسعه و صنعتی سازی فناوری های نوین گام هایی بزرگ بردارد.

مدیران و کارشناسان این شرکت با تکیه بر تجربیات، توانمندی ها و فن آوری های روز دنیا که از طریق شرکت در دوره های آموزشی مختلف داخلی و خارجی همچون NFPA و حضور و فعالیت در نمایشگاه های تخصصی داخل و خارج از کشور به دست آمده است، نسبت به ارائه راهکارهای جامع ایمنی، طراحی، مشاوره، تامین تجهیزات، اجرا و نصب سیستم ها، ارزیابی ریسک ایمنی و حریق و نظارت بر پروژه های متنوع اعلام و اطفاء حریق و تاسیسات اقدام می نمایند.

همچنین در همین راستا شرکت ایمن داتیس با اعتقاد راسخ به سیستم های مدیریتی یکپارچه مفتخر به اخذ گواهینامه IMS شده است که شامل استانداردهای ISO9001 و ISO14001 و ISO45001 می باشد و گواهینامه مدیریت پروژه PMP نیز تکمیل کننده عملکرد این شرکت است. دارا بودن گواهینامه سیستم مدیریت بهداشت، ایمنی و محیط زیست HSEMS نیز یکی دیگر از افتخارات این شرکت می باشد. همچنین شرکت دارای تأییدیه رسمی سازمان آتش نشانی می باشد.

شایان ذکر است دپارتمان بازرگانی شرکت ایمن داتیس آسیا با ایجاد ارتباط سازنده با تولیدکنندگان داخلی و خارجی در کمترین زمان ممکن نسبت به تامین و تهیه تجهیزات با تأییدیه های بین المللی نظیر NFPA UL FM VDS BS/EN برای تمامی پروژه ها اقدام می نماید، که در همین راستا شرکت ایمن داتیس دارای نمایندگی فروش و یا انحصاری فروش و خدمات پس از فروش چندین برند معتبر اروپایی، اماراتی و هندی در کشور عزیزمان است که همین مهم موجبات اطمینان خاطر خریداران این تجهیزات را در جهت خدمات پس از فروش برتر فراهم می آورد.

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برندهایی که ایمن داتیس آسیا با آنها همکاری دارد:

Water supply pump LUBI - India  
Firepump LUBI -- UL/FM - India  
Safex Fire valve -- UL/FM - India  
FM200 system AIR FIRE -- UL/FM - Spain  
Emergency light GULF LIGHT -- UL/FM - UAE  
Pump control panel TORNATECH -- UL/FM - Canada

از دیگر خدماتی که شرکت ما مفتخر به انجام آن می باشد می توان از موارد زیر نام برد:

طراحی و فروش و ارائه خدمات پس از فروش جهت فرودگاه ها و آشیانه های هواپیما طبق الزامات NFPA409  
فروش و ساخت انواع پمپ و بوستر پمپ های آتش نشانی جهت پروژه های مسکونی، اداری و تجاری  
فروش و ساخت انواع پمپ و بوستر پمپ های آتش نشانی جهت پروژه های صنعتی و صنایع هایتک  
فروش و ساخت انواع پمپ و بوستر پمپ آبرسانی جهت پروژه های مسکونی، اداری و تجاری  
فروش و ساخت انواع پمپ و بوستر پمپ آبرسانی جهت پروژه های صنعتی و صنایع هایتک  
طراحی و فروش و ارائه خدمات پس از فروش سکوها نفتی و سکوها گازی و ترکیبی  
طراحی و فروش و ارائه خدمات پس از فروش صنایع پتروشیمی، پالایشی و پالایشگاهی  
فروش و نصب و راه اندازی سیستم های اعلام حریق عمومی و اختصاصی  
تمامی فرآیندهای طراحی و ساخت و تست بوستر پمپ ها در این شرکت در حال انجام و به روز رسانی می باشد و تمامی پمپ های به کار رفته دارای تأییدیه های لازم داخلی یا بین المللی می باشد؛ همچنین تمامی خدمات فروش، خدمات پس از فروش و تامین قطعات و لوازم یدکی این برندها (حتی با وجود تحریم ها) توسط شرکت ایمن داتیس در حال انجام می باشد.



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## درباره ایمن داتیس آسیا

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شرکت ما مفتخر است که مشاوره و طراحی در زمینه سیستم‌های اعلام حریق اتوماتیک، پوشش‌های مقاوم در برابر حریق را به طیف گسترده‌ای از صنایع و ساختمان‌ها ارائه می‌نماید که در تهران به دلیل نیاز به تایید نقشه‌های مربوطه توسط سازمان خدمات ایمنی و آتش نشانی شهرداری تهران این شرکت تأییدیه‌های لازم را به عنوان نماینده کارفرما از سازمان آتش‌نشانی دریافت می‌نماید. در برخی صنایع نیز این تأییدیه از آتش‌نشانی مستقر در شهرک صنعتی و یا آن شهرستان دریافت می‌شود. که فرآیند دریافت این تأییدیه‌ها تماماً توسط شرکت (ایمن داتیس آسیا) انجام می‌پذیرد.

در راستای تأمین تجهیزات متنوع برای مالکین کلیه پروژه‌ها و همچنین همکاران محترم، شرکت ایمن داتیس افتخار دارد که نمایندگی توزیع چندین برند مختلف داخلی و خارجی را دارا می‌باشد و در سایر موارد نیز اجناس مورد نظر را به صورت دست اول و بدون واسطه در اختیار کارفرمایان گرامی قرار می‌دهد.

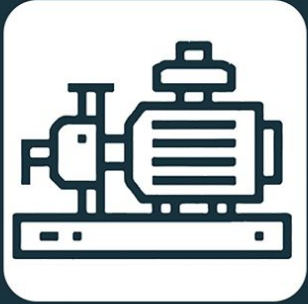
از دیگر بخش‌های این شرکت بخش اجرا و نصب سیستم‌ها می‌باشد، که پیش‌نیاز آن طراحی، مشاوره و تأمین تجهیزات می‌باشد که پس از اتمام طراحی، پیمانکار اجرا و نصب می‌بایست طبق نقشه‌ها و دیتیل اجرایی ارائه شده توسط شرکت مشاور و طراح نسبت به اجرای زیرساخت، نصب تجهیزات و نهایتاً راه‌اندازی سیستم، اقدامات لازم را به عمل آورد. دپارتمان پروژه شرکت ایمن داتیس آسیا با توجه به تجربه و دانش سالیان متمادی در زمینه پیاده‌سازی سیستم‌های اعلام و اطفاء حریق اتوماتیک نسبت به عرضه این خدمات با کمترین زمان ممکن و بالاترین کیفیت و دستورالعمل‌های کارفرما اقدام می‌نماید.

شرکت مهندسی ایمن داتیس آسیا با بهره‌گیری از نیروهای متخصص در زمینه سیستم‌های ایمنی و آتش‌نشانی و اشراف بر الزامات، استانداردها و ضوابط مهندسی حریق نسبت به نظارت بر اجرا و خرید سیستم‌های اعلام و اطفاء حریق اتوماتیک در پروژه‌های صنعتی و ساختمانی اقدام می‌نماید.

با امید به آینده‌ای ایمن‌تر

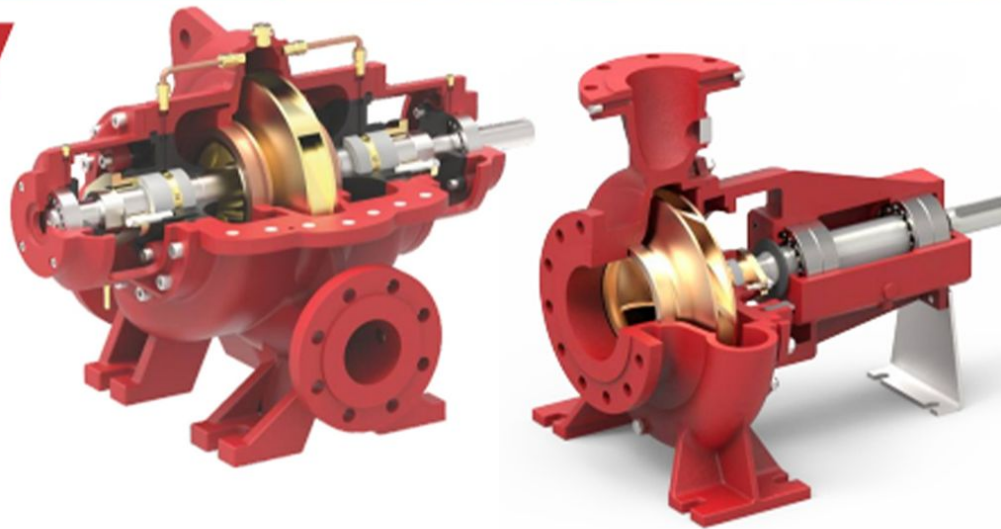
FIRE PUMPS

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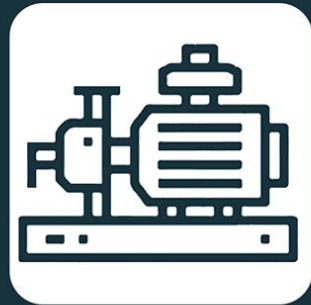
## Product range

End Suction Fire Pumps

FLBS

END SUCTION  
PUMPS  
(FLBS SERIES)

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### Introduction

Lubi offers FLBS series state-of-the-art fire pumps with diesel Engine or electric motor driven, single-stage End-Suction pump.

These pumps are typically used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems.

Pumps have a discharge range from 50 to 1000 USgpm and the head range from 3.72 to 9.9 bar.

These fire pumps meet or exceed the requirements of NFPA20.

Installations of these pumps would ensure the safety of human life, buildings, and expensive equipments and plants. FLBS fire pumpset shall be used only where a positive suction is provided as specified in NFPA20.

These fire pumps typically consists of the following equipments:

- Single-Stage End-Suction pump
- Electric motor or Diesel Engine
- Cooling system for Diesel Engine
- Fuel system for Diesel Engine
- Battery for Diesel Engine electric start
- Exhaust system for Diesel Engine
- Diesel Engine / Electric Motor Fire pump controller
- Suction and Discharge pressure gauges
- Casing Relief Valve for Motor Fire pump
- Base frame

All above equipments except fuel supply tank and fire pump controller are mounted on a common base frame.

Lubi can also supply packaged fire pumping system with all required accessories ready for site installation



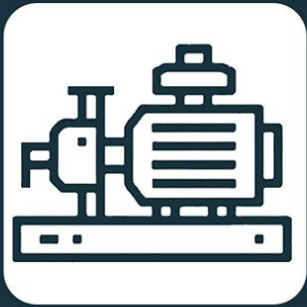
# Product range

End Suction Fire Pumps

FLBS

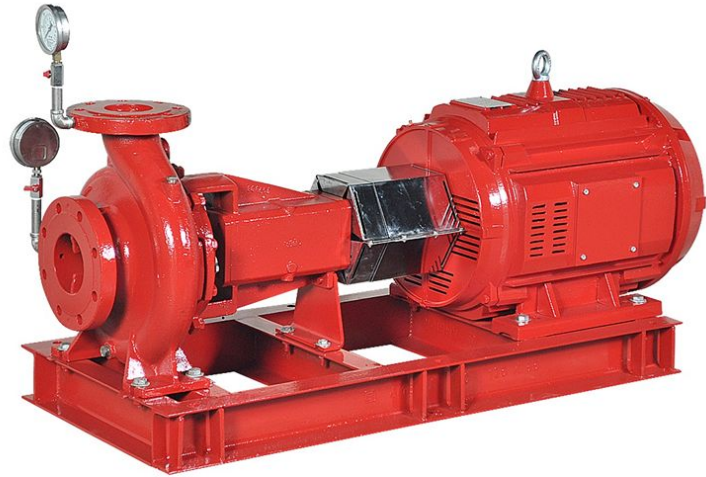
END SUCTION PUMPS (FLBS SERIES)

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### Applications

The FLBS fire pumpsets are used in small capacity, diesel Engine or motor driven fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

The typical applications are as follow:

- Commercial complexes & high rise buildings
- Petrochemical industries and Gas plants
- Airports and ports
- Jetties
- Marine applications
- Power stations and transformer stations
- Chemical industries
- Manufacturing plants
- Fire-work industries
- Warehouses / godowns

### Features & benefits

FLBS fire pumpset offers all the features & benefits as mentioned in our LBS standard pump series data booklet. Following are the additional features & benefits offered by these pumpsets:

- State-of-the-art design fire pumping system.
- NFPA-20 design
- Compact diesel Engine driven pump package
- Rugged construction
- More economical than Horizontal Split Case diesel fire pump packages
- Back pull-out design which simplifies inspection and maintenance without disturbing pipe work
- The pump impellers are dynamically balanced to grade 6.3 of ISO 1940-1
- Efficient operation
- Lower initial cost
- Reduced installation time and cost
- Easy access to all working parts
- Ease of maintenance
- Single source unit responsibility.

End Suction Fire Pumps FLBS

Type keys - Fire pump

#### FLBS

Example FLBS 125 - 100 - 250

Type range

Suction size (mm)

Delivery size (mm)

Nominal Impeller diameter (mm)



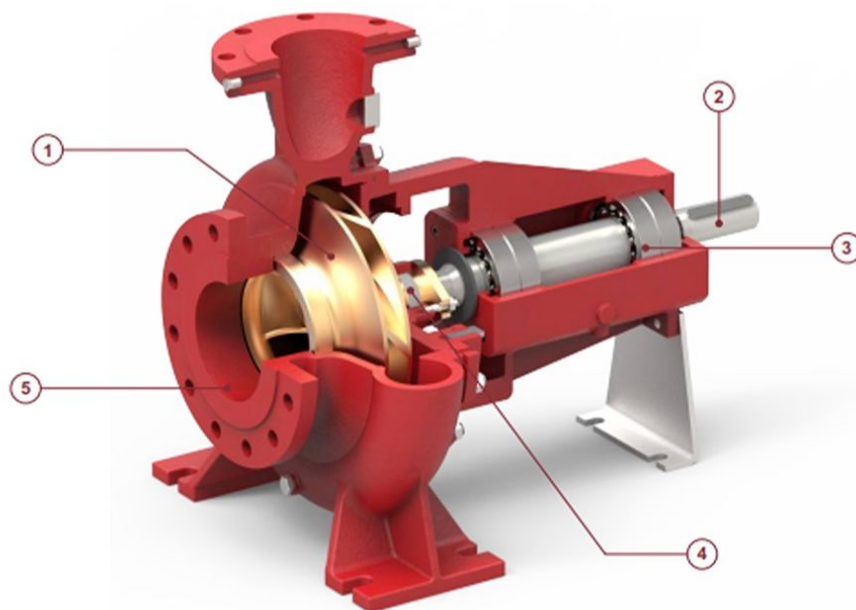
# Product range

End Suction Fire Pumps

FLBS

END SUCTION PUMPS (FLBS SERIES)

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### 1 - Impeller & Casing

- Impeller is dynamically balanced to grade G6.3 balance quality in accordance to ISO 1940-1.
- Impeller & Casing are designed using state of art CFD tools to ensure optimal performance.

### 2 - Shaft

- Heavy duty stainless steel shaft completely sealed and dry for zero corrosion.
- Short and rigid with negligible vibrations.
- Replaceable shaft protecting sleeves.
- No threads exposed to pump medium, long operating life and no corrosion.
- Adjustment-free assembly.

### 3 - Bearing

- Heavy duty and permanently grease lubricated antifriction bearings for long service life.
- Open gland, enough space for service activities.

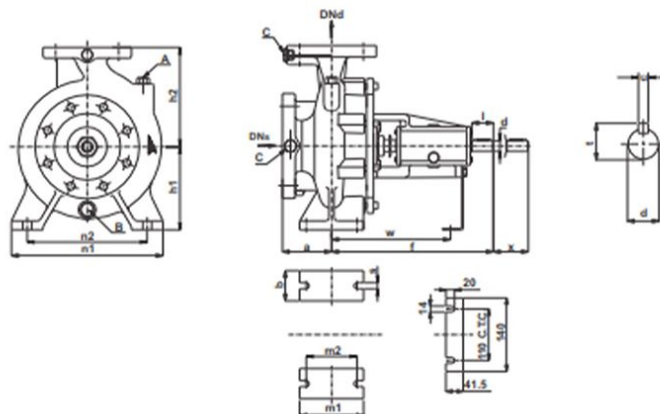
### 4 - Seal

- Asbestos - free, soft packed stuffing boxes.

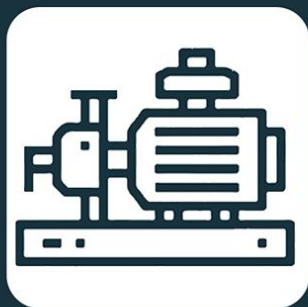
### 5 - Casing

- End Suction backpullout design permits maintenance of the pump without removing the pipes.
- Rugged Ball Bearings on Drive as well as Non Drive end.
- Flange drilled as per ANSI B16.1 class 250.
- Smooth surface inside & CED coated for superior corrosion protection.
- Replaceable wear ring protect the casing and the impeller running clearances.
- Heavy duty casing design for high working pressure.

### Dimensions



Model	DN <sub>s</sub>	DN <sub>d</sub>	a	b	d.k6	f	h1	h2	l	m1	m2	n1	n2	s	t	u	w	x	A	B	C
FLBS 65-40-250	65	40	100	65	24	360	180	225	50	125	95	320	250	14	27	8	260	100	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 80-65-250	80	65	100	80	42	482	200	250	80	160	120	360	280	18	45	12	340	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 125-100-250	125	100	140	80	42	527	225	280	110	160	120	400	315	18	45	12	360	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 125-100-315	125	100	140	80	48	630	250	315	110	160	120	400	315	18	51.5	14	445	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 150-125-315	150	125	140	100	48	640	280	355	110	200	150	500	400	22	51.5	14	455	140	Ø3/8"	Ø1/2"	Ø1/4"



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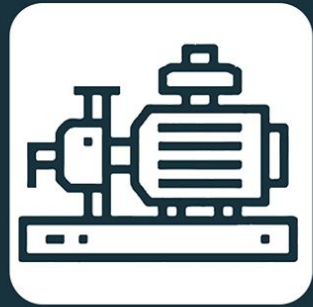
# Product range

End Suction Fire Pumps

**FLBS**

END SUCTION PUMPS (FLBS SERIES)

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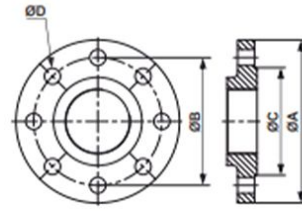


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## Flange Dimensions



## ANSI 250 Flange Dimensions

Model	Suction				Discharge			
	ØA	ØB	ØC	ØD x Nos. of holes	ØA	ØB	ØC	ØD x Nos. of holes
FLBS 65-40-250	190	149	125	Ø7/8" x 8	155	114	91	Ø7/8" x 4
FLBS 80-65-250	210	168	144	Ø7/8" x 8	190	149	125	Ø7/8" x 8
FLBS 125-100-250	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
FLBS 125-100-315	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
FLBS 150-125-315	320	270	246	Ø7/8" x 12	280	235	211	Ø7/8" x 8

## Approved Fire Pump Models with Rating

RATED CAPACITY- 50 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 65-40-250	96-130	6.61-8.96	96-130	6.61-8.96	2900	2.5	1.5	1
2	FLBS 80-65-250	85-134	5.86-9.23	85-130	5.86-8.96	2900	3	2.5	1

RATED CAPACITY- 100 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 65-40-250	95-127	6.55-8.75	96-127	6.61-8.75	2900	2.5	1.5	1
2	FLBS 80-65-250	84-134	5.79-9.23	84-129	5.79-8.89	2900	3	2.5	1

RATED CAPACITY- 150 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 80-65-250	83-135	5.72-9.30	83-129	5.72-8.89	2900	3	2.5	1

RATED CAPACITY- 200 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 80-65-250	81-135	5.58-9.90	81-129	5.58-8.89	2900	3	2.5	1

RATED CAPACITY- 250 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 80-65-250	78-134	5.37-9.23	77-129	5.30-8.89	2900	3	2.5	1

RATED CAPACITY- 300 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 125-100-250	94-132	6.48-9.10	94-132	6.48-9.10	2900	5	4	1



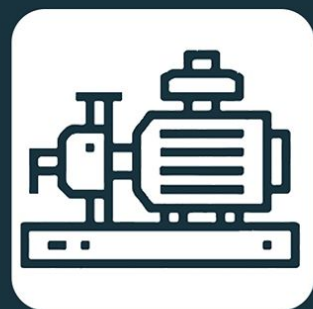
# Product range

End Suction Fire Pumps

FLBS

END SUCTION PUMPS (FLBS SERIES)

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## Approved Fire Pump Models with Rating

RATED CAPACITY- 400 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLBS 125-100-250</b>	93-131	6.41-9.03	93-131	6.41-9.03	2900	5	4	1
2	<b>FLBS 125-100-315</b>	122-207	8.41-14.27	118-203	8.13-13.99	2900	5	4	1
3	<b>FLBS 150-125-315</b>	111-192	7.65-13.23	107-195	7.37-13.44	2900	6	5	1

RATED CAPACITY- 450 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLBS 125-100-250</b>	92-131	6.34-9.03	93-131	6.41-9.03	2900	5	4	1
2	<b>FLBS 125-100-315</b>	121-207	8.34-14.27	117-203	8.13-13.99	2900	5	4	1
3	<b>FLBS 150-125-315</b>	110-192	7.58-13.23	107-195	7.37-13.44	2900	6	5	1

RATED CAPACITY- 500 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLBS 125-100-250</b>	91-130	6.27-8.96	91-130	6.27-8.96	2900	5	4	1
2	<b>FLBS 125-100-315</b>	120-207	8.27-14.27	116-203	7.99-13.99	2900	5	4	1
3	<b>FLBS 150-125-315</b>	110-192	7.58-13.23	106-194	7.30-13.37	2900	6	5	1

RATED CAPACITY- 750 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLBS 125-100-250</b>	86-125	5.92-8.61	85-125	5.86-8.61	2900	5	4	1
2	<b>FLBS 125-100-315</b>	111-203	7.65-13.99	108-199	7.44-13.72	2900	5	4	1
3	<b>FLBS 150-125-315</b>	109-190	7.51-13.1	104-194	7.17-13.37	2900	6	5	1

RATED CAPACITY- 1000 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLBS 150-125-315</b>	104-188	7.17-12.96	99-190	6.82-13.1	2900	6	5	1



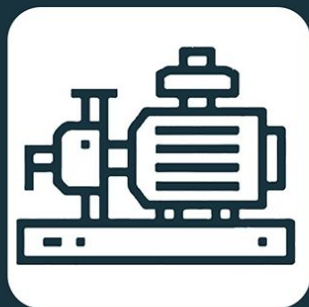
# Product range

End Suction Fire Pumps

FLBS

## END SUCTION PUMPS (FLBS SERIES)

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## EQUIPMENT SUPPLY SERVICES

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### End Suction Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm
<b>50(189)</b>	96-130 (6.61- 8.96)	FLBS 65-40-250	6.7	2.50
			7	2.50
			8	2.50
			8.95	2.50
	85-134 (5.86- 9.23)	FLBS 80-65-250	6	2.50
			9.2	2.50
<b>100(378)</b>	95-127 (6.55- 8.75)	FLBS 65-40-250	6.6	5.00
			7	5.00
			8	5.00
			8.75	5.00
	84-134 (5.79- 9.23)	FLBS 80-65-250	6	5.00
			9.2	5.00
<b>150(567)</b>	83-135 (5.12- 9.30)	FLBS 80-65-250	6	7.50
			7	7.50
			8	7.50
			9	7.50
			9.3	7.50
<b>200 (757)</b>	81-135 (5.58-9.30)	FLBS 80-65-250	5.8	10.00
			6	10.00
			7	10.00
			8	10.00
			9	10.00
			9.3	10.00
<b>250(946)</b>	78-134 (5.37-9.23)	FLBS 80-65-250	5.5	12.50
			6	12.50
			7	12.50
			8	12.50
			9	12.50
<b>300(1135)</b>	94-132 (6.48-9.10)	FLBS 125-100-250	6.65	15.00
			7	15.00
			8	15.00
			9	15.00



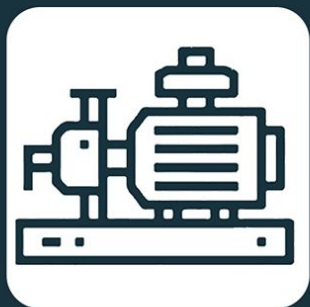
# Product range

End Suction Fire Pumps

**FLBS**

## END SUCTION PUMPS (FLBS SERIES)

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## EQUIPMENT SUPPLY SERVICES

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### End Suction Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	
<b>400(1514)</b>	93-131 (6.41 - 9.03)	FLBS 125-100-250	6.55	20.00	
			7	20.00	
			8	20.00	
			9	20.00	
	122-207 (8.41 - 14.27)	FLBS 125-100-315	10	20.00	
			11	20.00	
			12	20.00	
			13	20.00	
			14	20.00	
	<b>450(1703)</b>	92-131 (6.34 - 9.03)	FLBS 125-100-250	6.5	22.50
				7	22.50
				8	22.50
				9	22.50
121-207 (8.34 - 14.27)		FLBS 125-100-315	10	22.50	
			11	22.50	
			12	22.50	
			13	22.50	
			14	22.50	
<b>500(1892)</b>		91-130 (6.27 - 8.96)	FLBS 125-100-250	6.5	25.00
				7	25.00
				8	25.00
				8.96	25.00
	120-207 (8.27 - 14.27)	FLBS 125-100-315	10	22.00	
			11	25.00	
			12	25.00	
			13	25.00	
			14	22.00	
	<b>750(2838)</b>	86-125 (5.92 - 8.61)	FLBS 125-100-250	6	37.50
				7	37.50
				8	37.50
				8.6	37.50
111-203 (7.65 - 13.99)		FLBS 125-100-315	9	37.50	
			10	37.50	
			11	37.50	
			12	37.50	
			13	37.50	
			13.99	37.50	

### End Suction Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm
<b>1000(3785)</b>	104-198 (7.71 - 12.96)	FLBS 150-125-315	7.3	50.00
			8	50.00
			9	50.00
			10	50.00
			11	50.00
			12	50.00
			12.96	50.00



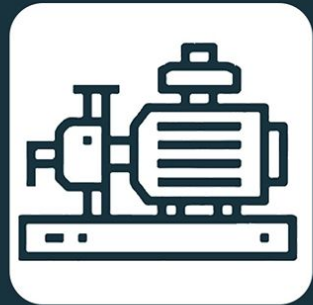
# Product data

## Horizontal split case fire pumps

## FLHC

# HORIZONTAL SPLIT CASE FIRE PUMPS

# IMEN DATIS ASIA



# EQUIPMENT SUPPLY SERVICES

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### Introduction

Lubi offers FLHC series state-of-the-art fire pumps with diesel Engine/electric motor driven, horizontal split case pump.

These pumps are typically used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems.

Pumps have a discharge range from 450 to 3000 USgpm and the head range from 61 to 336 psi.

These fire pumps meet or exceed the requirements of NFPA20.

Installations of these pumps would ensure the safety of human life, buildings, expensive plants and equipments. FLHC fire pumpset shall be used only where a positive suction is provided as specified in NFPA20.

The fire pumps typically consists of the following equipments:

- Pump
- Electric motor/Diesel Engine assembled with
  - cooling system (for Diesel Engine only)
  - fuel system (for Diesel Engine only)
  - battery system (for Diesel Engine only)
  - exhaust system (for Diesel Engine only)
- Fire pump controller
- Suction and discharge gauges
- Air relief valve
- Common base plate

**Note:** For your jockey pump requirements kindly refer our literature for LCR and/or LES pumps.

All above equipments except fuel supply tank and fire pump controller are mounted on a common base frame.

Lubi can also supply Packaged fire pumping system with all required accessories ready for site installation.

### Applications

The FLHC fire pumps are used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

The typical applications are as follow:

- Commercial complexes and high rise buildings
- Petrochemical industries and Gas plants
- Oil and Gas on-shore &off-shore platforms
- Oil terminals
- Airports and ports
- Jetties
- Marine applications
- Power stations and transformer stations
- Chemical industries
- Manufacturing plants
- Fire-work industries
- Warehouses/godowns.

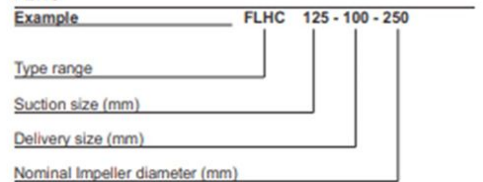
### Features & benefits

FLHC fire pumps offers all features & benefits as mentioned in our LHC standard pump series data booklet. Following are the additional features & benefits offered by these pumps:

- State-of-the-art design fire pumping system.
- UL listed/FM approved/NFPA-20 design
- Diesel Engine as well as electric motor driven pump
- Rugged construction
- Liberal water passages
- Automatic air relief valve
- Efficient operation
- Lower initial cost
- Reduced installation time and cost
- Simplified piping design
- Suitable for space saving installation systems and retrofit applications
- Easy access to all working parts
- Ease of maintenance
- Single source unit responsibility.

### Type keys - Fire pump

#### FLHC





# Product data

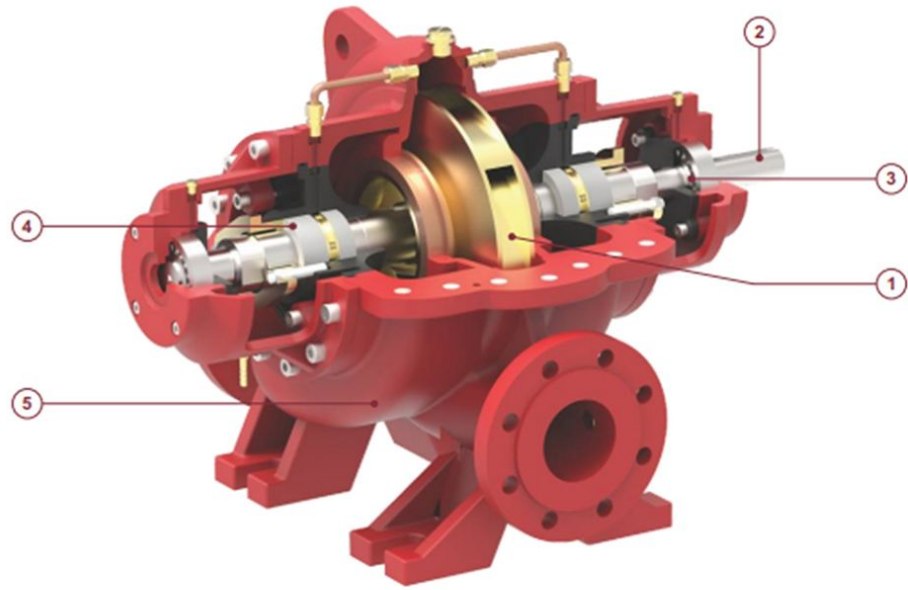
## Horizontal split case fire pumps

FLHC

### HORIZONTAL SPLIT CASE FIRE PUMPS

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### General Pump Features



#### 1 - Impeller & Casing

- Minimal axial thrust due to double-entry impeller.
- Impeller is dynamically balanced to G6.3 balance quality Grade in accordance to ISO 1940-1.
- Impeller & Casing are designed using state of the art CFD tools to ensure optimal performance.

#### 2 - Shaft

- Heavy duty shaft completely sealed and dry of zero corrosion.
- Short and rigid with negligible vibrations.
- Replaceable shaft protecting sleeves.
- No threads exposed to pump medium, long operating life and no corrosion.
- Adjustment-free assembly.

#### 3 - Bearing

- Heavy duty and grease lubricated antifriction Bearings for long service life.
- Open gland, enough space for service activities.

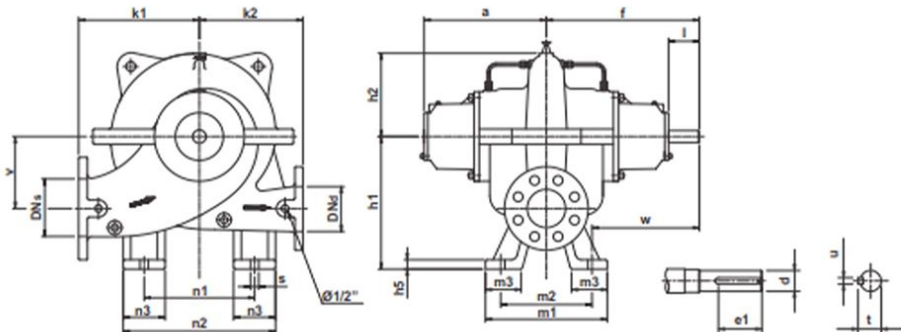
#### 4 - Seal

- Asbestos - free, potable water quality soft packed stuffing boxes.

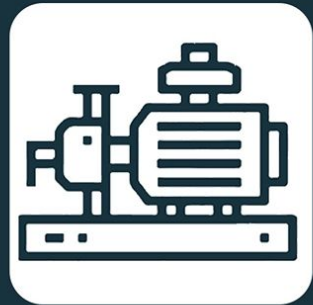
#### 5 - Casing

- In-line axially split design which permits removal of the complete rotor without removing the pipe & motor.
- Short distance between bearings.
- Leak-tight due to compact joint flange with long Pre-stressed bolts.
- Counter-rotation possible with similar parts.
- Easy mounting self-aligning upper casing.
- Flange drilled as per ANSI B16.1 class 250.
- Smooth surface inside CED coated for superior corrosion protection.
- Replaceable wear ring protect the casing and the impeller running clearances.
- Heavy duty casing design for high working pressure.

### Dimensions



Model	DN <sub>s</sub>	DN <sub>d</sub>	k1	k2	v	n1	n2	n3	a	f	h1	h2	h5	s	w	m1	m2	m3	d	l	e1	u	t
FLHC 125-100-250	125	100	310	250	170	250	350	100	323	402	320	199	25	22	282	320	240	95	32	81	65	10	35,3
FLHC 125-100-400	125	100	375	325	210	370	490	120	334	434	365	260	25	22	314	320	240	87	38	102	85	10	41
FLHC 150-125-315	150	125	350	300	195	300	440	140	333	434	375	244	25	22	309	350	250	99	38	102	85	10	41
FLHC 200-150-250	200	150	385	325	190	350	490	140	354	451	390	233	25	24	298	370	305	80	38	97	85	10	41
FLHC 250-200-250	250	200	450	325	280	360	495	135	402	499	525	281	28	24	299	500	400	96	38	97	85	10	41
FLHC 250-200-315	250	200	450	375	235	430	570	140	408	513	465	287	28	24	333	460	360	105	48	105	83	14	52
FLHC 250-200-400	250	200	485	420	230	460	604	144	409	515	465	313	28	24	365	400	300	97	55	106	94	16	59
FLHC 250-200-650	250	200	600	600	325	650	810	160	434	570	575	405	32	24	382	453	375	119	75	135	135	20	79,5
FLHC 300-250-500	300	250	600	575	275	650	835	185	495	634	550	379	30	28	424	520	420	120	85	140	130	22	89
FLHC 300-250-650	300	250	700	700	320	860	1020	160	458	597	590	415	32	24	417	460	360	120	85	140	135	22	89



### EQUIPMENT SUPPLY SERVICES

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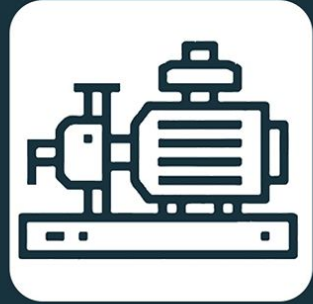
# Product data

## Horizontal split case fire pumps

**FLHC**

### HORIZONTAL SPLIT CASE FIRE PUMPS

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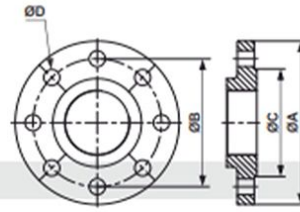


### EQUIPMENT SUPPLY SERVICES

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### Flange Dimensions



### ANSI 250 Flange Dimensions

Model	Suction				Discharge			
	ØA	ØB	ØC	ØD x Nos. of holes	ØA	ØB	ØC	ØD x Nos. of holes
FLHC 125-100-250	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
FLHC 125-100-400	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
FLHC 150-125-315	320	270	246	Ø7/8" x 12	280	235	211	Ø7/8" x 8
FLHC 200-150-250	380	330	303	Ø1" x 12	320	270	246	Ø7/8" x 12
FLHC 250-200-250	445	387	357	Ø1-1/8" x 16	380	330	303	Ø1" x 12
FLHC 250-200-315	445	387	357	Ø1-1/8" x 16	380	330	303	Ø1" x 12
FLHC 250-200-400	445	387	357	Ø1-1/8" x 16	380	330	303	Ø1" x 12
FLHC 250-200-650	445	387	357	Ø1-1/8" x 16	380	330	303	Ø1" x 12
FLHC 300-250-500	520	451	418	Ø1-1/4" x 16	445	387	350	Ø1-1/8" x 16
FLHC 300-250-650	520	451	418	Ø1-1/4" x 16	445	387	350	Ø1-1/8" x 16

### Horizontal Split Case Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm
400(1514)	245-336 (16.89-23.16)	FLHC 125-100-400 2900/3000 RPM	17	20
			18	20
			19	20
			20	20
			21	20
			22	20
450 (1703)	71-131 (4.89-9)	FLHC 125-100-250 2900/3000 RPM	5	22.5
			6	22.5
			7	22.5
			8	22.5
			9	22.5
450 (1703)	244-335 (16.82-23.09)	FLHC 125-100-400 2900/3000 RPM	17	22.5
			18	22.5
			19	22.5
			20	22.5
			21	22.5
			22	22
500 (1892)	71-131 (4.89-9)	FLHC 125-100-250 2900/3000 RPM	5	25
			6	25
			7	25
			8	25
			9	25
500 (1892)	131-214 (9-14.75)	FLHC 150-125-315 2900/3000 RPM	9	25
			10	22.3
			11	25
			12	25
			13	25
			14	22.3
			14.75	25



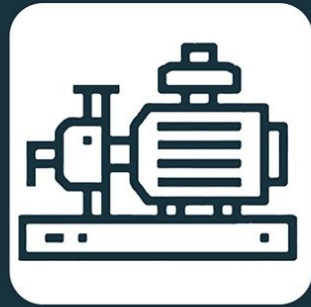
# Product data

## Horizontal split case fire pumps

**FLHC**

### HORIZONTAL SPLIT CASE FIRE PUMPS

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### EQUIPMENT SUPPLY SERVICES

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#### Approved Fire Pump Models with Rating

RATED CAPACITY- 1500 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLHC 200-150-250</b>	75-139	5.17-9.58	73-137	5.03-9.44	2900	8	6	1
2	<b>FLHC 250-200-315</b>	113-210	7.7-14.4	-	-	2900	10	8	1
3	<b>FLHC 250-200-400</b>	135-206	9.30-14.2	135-203	9.30-13.99	2350	10	8	1
4	<b>FLHC 250-200-650</b>	184-245	12.6-16.8	-	-	1470	10	8	1

RATED CAPACITY- 2000 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLHC 250-200-250</b>	80-133	5.51-9.17	79-131	5.44-9.03	2900	10	8	1
2	<b>FLHC 250-200-315</b>	109-209	7.5-14.41	-	-	2900	10	8	1
3	<b>FLHC 250-200-315</b>	72-133	4.96-9.17	70-131	4.82-9.03	2350	10	8	1
4	<b>FLHC 250-200-400</b>	132-204	9.10-14.06	131-202	9.03-13.92	2350	10	8	1
5	<b>FLHC 250-200-650</b>	180-242	12.4-16.6	-	-	1470	10	8	1

RATED CAPACITY- 2500 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLHC 250-200-400</b>	126-200	8.68-13.78	126-199	8.68-13.72	2350	10	8	1
2	<b>FLHC 300-250-500</b>	93-152	6.4-10.4	-	-	1470	12	10	1
3	<b>FLHC 300-250-650</b>	152-224	10.4-15.4	-	-	1470	12	10	.1

RATED CAPACITY- 3000 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FLHC 300-250-500</b>	90-151	6.20-10.4	-	-	1470	12	10	1





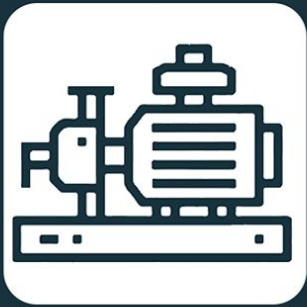
# Product data

## Horizontal split case fire pumps

## FLHC

### HORIZONTAL SPLIT CASE FIRE PUMPS

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### EQUIPMENT SUPPLY SERVICES

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Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm
<b>400(1514)</b>	245-336 (16.89-23.16)	FLHC 125-100-400 2900/3000 RPM	17	20
			18	20
			19	20
			20	20
			21	20
			22	20
<b>450 (1703)</b>	71-131 (4.89-9)	FLHC 125-100-250 2900/3000 RPM	23	22.5
			5	22.5
			6	22.5
			7	22.5
			8	22.5
			9	22.5
<b>450 (1703)</b>	244-335 (16.82-23.09)	FLHC 125-100-400 2900/3000 RPM	17	22.5
			18	22.5
			19	22.5
			20	22.5
			21	22.5
			22	22
<b>500 (1892)</b>	71-131 (4.89-9)	FLHC 125-100-250 2900/3000 RPM	23	22.5
			5	25
			6	25
			7	25
			8	25
<b>500 (1892)</b>	131-214 (9-14.75)	FLHC 150-125-315 2900/3000 RPM	9	25
			10	22.3
			11	25
			12	25
			13	25
			14	22.3
<b>500 (1893)</b>	243-334 (16.75-23.02)	FLHC 125-100-400 2900/3000 RPM	14.75	25
			17	25
			18	25
			19	25
			20	25
			21	25
<b>750(2838)</b>	65-130 (4.4-8.96)	FLHC 125-100-250 2900/3000 RPM	22	25
			23	23.5
			5	37.5
			6	37.5
			7	37.5
<b>750(2838)</b>	129-213 (8.8-14.68)	FLHC 150-125-315 2900/3000 RPM	8	37.5
			8.96	37.5
			9	37.5
			10	37.5
			11	37.5
			12	37.5
<b>750 (2839)</b>	236-323 (16.27-22.27)	FLHC 125-100-400 2900/3000 RPM	13	37.5
			14	37.5
			14.68	37.5
			16.5	37.5
			17	37.5
<b>1000(3785)</b>	127-210 (8.75-14.4)	FLHC 150-125-315 2900/3000 RPM	18	37.5
			19	37.5
			20	37.5
			9	50
			10	50
<b>1000(3785)</b>	127-210 (8.75-14.4)	FLHC 150-125-315 2900/3000 RPM	11	50
			12	50
			13	50
			14	50
			14	50



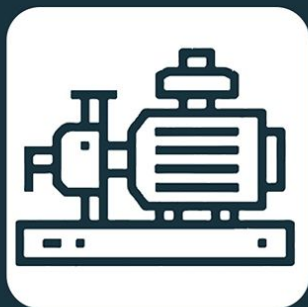
# Product data

## Horizontal split case fire pumps

## FLHC

### HORIZONTAL SPLIT CASE FIRE PUMPS

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### EQUIPMENT SUPPLY SERVICES

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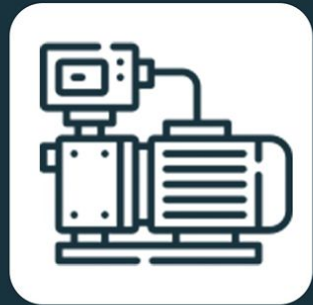


Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm
1000(3785)	80-142 (5.51- 9.7)	FLHC 200-150-250 2900/3000 RPM	6	50
			7	50
			8	50
1250(4732)	78-140 (5.3- 9.6)	FLHC 200-150-250 2900/3000 RPM	5.5	60
			6	60
			7	60
			8	60
1250(4732)	121-205 (8.34- 14.13)	FLHC 150-125-315 2900/3000 RPM	9	60
			10	60
			11	60
			12	60
			13	60
1500(5678)	75-139 (8.34- 14.13)	FLHC 200-150-250 2900/3000 RPM	5.5	75
			6	75
			7	75
			8	75
			9	75
1500(5678)	113-210 (7.8- 14.48)	FLHC 250-200-315 2900 RPM Motor Driven	10	75
			11	75
			12	75
	135-203 (9.30- 13.99)	FLHC 250-200-400 (2350 RPM) Engine Driven	13	75
			14	75
1500(5678)	184-245 (12.68- 16.89)	FLHC 250-200-650 1470 RPM	15	75
			16	75
2000(7571)	80-133 (5.5-9.17)	FLHC 250-200-250 2900/3000 RPM	6	100
			7	100
	80-133 (5.5-9.17)	FLHC 250-200-250 2900 RPM Motor driven	8	100
			9	100
2000(7571)	109-209 (7.5 - 14.41)	FLHC 250-200-315 2900 RPM Motor Driven	10	100
			11	100
	131-202 (9.0 - 13.92)	FLHC 250-200-400 2350 RPM Engine Driven	12	100
			13	100
2000(7571)	180-242 (12.41- 16.68)	FLHC 250-200-650 1470 RPM Motor Driven	13.9	100
	131-202 (9.0- 13.92)	FLHC 250-200-400 2350 RPM Engine Driven		
	180-242 (12.41- 16.68)	FLHC 250-200-650 1470 RPM	15	100
2500(9464)	93-152 (6.41- 10.48)	FLHC 300-250-500 1470 RPM	6.5	125
			7	125
			8	125
	93-152 (6.41- 10.48)	FLHC 300-250-500 1470 RPM Motor Driven	9	125
			10	125
	126-199 (8.68- 13.72)	FLHC 250-200-400 2350 RPM Engine Driven	10	125
2500(9464)	152-224 (10.48 - 15.44)	FLHC 300-250-650 1470 RPM Motor Driven	11	125
			12	125
3000(11356)	90-151 (6.2- 10.41)	FLHC 300-250-500 1470 RPM	6.5	150
			7	150
			8	150
			9	150
			10	150



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Vertical Multistage Centrifugal Pumps  
50 Hz





## Product data

### Vertical Multistage Centrifugal Pumps

LCR HIGH PRESSURE SERIES

IMEN DATIS ASIA

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# LCRH

## HIGH-PRESSURE VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



### INTRODUCTION

The Lubi LCRNHS, LCRH and LCRNH series pumps are high-pressure, non-self-priming, vertical multistage centrifugal pumps with axial suction and discharge ports.

The high-pressure is achieved in two ways:

#### 1.) SINGLE PUMP SYSTEM:

In this system a standard vertical multistage centrifugal pump is fitted with a high-speed Lubi motor with integrated frequency converter.

- Type LCRNHS
- Available models: LCRNHS 1 & LCRNHS 3

#### 2.) TWO PUMP SYSTEM (FEED PUMP + HIGH-PRESSURE PUMP):

The pump consist of 2 pumps and they are installed in series. The first pump is a Feed pump which is standard vertical multistage centrifugal pumps i.e. LCR, LCRN. The second pump is a High-pressure pump i.e. LCRH, LCRNH especially designed for high pressure. A feed pump is connected with a high-pressure pump in series and thus high-pressure is achieved.

- Type LCRH and LCRNH
- Available models: LCRNH 3 to LCRNH 150  
LCRH 32 to LCRH 150

The high-pressure pump comes in two designs depending on pump size.

- LCRNHS 1, 3 & LCRNH 2 to 20: The chamber stack is upside-down as compared to a standard LCRN pump.
- LCRH, LCRNH 32 to 150: Standard LCR, LCRN pump with or without bearing flange.

The pressure generated by the high-pressure pump makes special demands to the design. This leaflet primarily describes the following aspects where the high-pressure pump is different from the standard pump:

- design
- operating conditions
- performance curves
- dimensions.

The performance curves show the high-pressure pump connected in series with a standard pump with various numbers of stages.

### DESIGN FEATURES



### APPLICATIONS

These pumps are suitable for a various types of applications demanding high-pressure, reliable and cost-efficient supply.

These pumps are suitable for a wide variety of applications from pumping of potable water to the pumping of chemicals.

Typical applications are as below:

#### Pressure boosting

- Process water systems
- Washing and cleaning systems
- High-pressure wash down systems
- Boiler feed and condensate systems.

#### Water treatment

- Ultra-filtration systems
- Reverse osmosis systems.

### OPERATING CONDITIONS

Flow range : 0.8 to 180 m<sup>3</sup>/h  
 Max. operating pressure : 50 bar  
 Ambient temperature : Max. + 40°C  
 Liquid temperature range: -30°C to +120°C

### MOTOR

LCRH, LCRNH pumps are fitted with a Totally Enclosed Fan Cooled, 2-pole motors with principal dimensions in accordance with the EN standards. Electrical tolerances according to EN 60034.

Motor type : TEFC 2-pole motor  
 Ratings : 1 phase - 0.37 to 2.2 kW  
           : 3 phase - 0.37 to 75 kW  
 Rated speed : 2900 rpm  
 Mounting designation: Up to 4 kW - V18 and From 5.5 kW - V1  
 Enclosure class : IP 55  
 Insulation class : F  
 Efficiency class : EFF2  
 Nominal voltage : 1 phase 220-230/240 V - 0.37 to 2.2 kW  
                       : 3 phase 220-240/380-415 V - 0.37 to 1.5 kW  
                       : 3 phase 380-415 V - 2.2 to 75 kW  
 Supply frequency : 50 Hz

### PUMPED LIQUIDS

Thin non-explosive liquids and not containing solid particles or fibers are suitable. The liquid must also not chemically attack the pump materials. When pumping liquids with a density and/or viscosity higher than that of water, oversized motors must be used, if required. Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are the chloride content, pH value, temperature and content of chemicals, oils etc. Please note that aggressive liquids (e.g. sea water and some acids) may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

The LCRH, LCRNH pump types are suitable for the following liquids.

#### LCRH

- Non-corrosive liquids.
- For liquid transfer, circulation and pressure boosting of cold or hot clean water.

#### LCRNHS, LCRNH

- Industrial liquids.
- In systems where all parts in contact with the liquid must be made of high-grade stainless steel.

### OPERATING RANGE OF THE SHAFT SEAL

The operating range of the shaft seal depends on operating pressure, pump type, type of shaft seal and liquid temperature. The following temperature range apply to clean water and water with anti-freeze liquids.

SHAFT SEAL	DESCRIPTION	MAX. TEMPERATURE RANGE [°C]
HBQE	Cartridge type shaft seal, Carbon/SiC/SS 316/EPDM	0°C to +120°C
HQCE	Cartridge type shaft seal, SiC/SiC/SS 316/EPDM	-40°C to +120°C
HQBQ	Cartridge type shaft seal, Carbon/SiC/SS 316/FKM	0°C to +90°C
HQQQ	Cartridge type shaft seal, SiC/SiC/SS 316/FKM	-20°C to +90°C

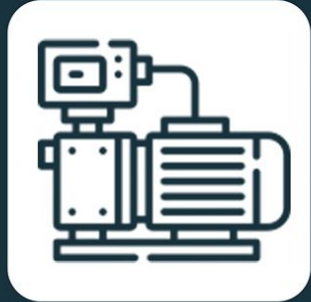


# Product data

## Vertical Multistage Centrifugal Pumps

LCR HIGH PRESSURE SERIES

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### LCRH HIGH-PRESSURE VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

#### SECTIONAL DRAWING & MATERIALS

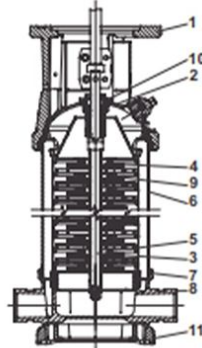


FIG. 1 LCRNHS 1 AND 3

POS.	COMPONENT	MATERIAL	LCRNHS 1 & 3	
			EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	EN-JL 1030	ASTM 25B
2	Pump head cover	Stainless steel	1.4408	CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4401 1.4460	AISI 316 AISI 329
4	Impeller	Stainless steel	1.4401	AISI 316
5	Chamber	Stainless steel	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
8	Base	Stainless steel	1.4408	CF 8M eq. to AISI 316
9	Neck ring	PTFE		
10	Shaft seal	Cartridge type		
11	Base plate	Cast iron EN-GJL-200	EN- JL1030	ASTM 25B
	Other rubber parts	EPDM or FKM		

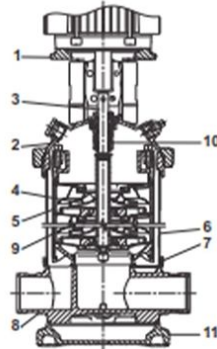


FIG. 2 LCRNH 2, 3, 5, 10, 15 AND 20

POS.	COMPONENT	MATERIAL	LCRNH 2, 3, 5, 10, 15 & 20	
			EN/DIN	AISI/ASTM
1	Pump head	Cast iron	EN-GJS-450-10	
2	Pump head cover	Stainless steel	1.4408	CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4460	AISI 329
4	Impeller	Stainless steel	1.4401	AISI 316
5	Chamber	Stainless steel	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
8	Base	Stainless steel	1.4408	CF 8M eq. to AISI 316
9	Neck ring	PTFE		
10	Shaft seal	Cartridge type		
11	Base plate	Cast iron EN-GJL-200	0.6020	ASTM 25B
	Other rubber parts	EPDM or FKM		

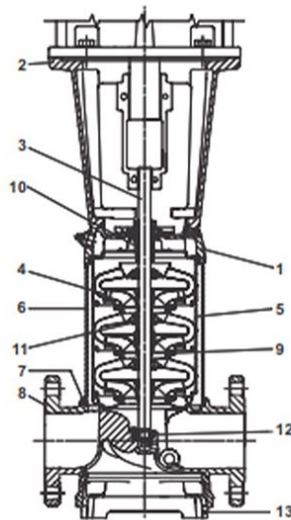


FIG. 3 LCRH, LCRNH 32, 45, 64 AND 90

POS.	COMPONENT	MATERIAL	LCRH, LCRNH 32, 45, 64 & 90	
			EN/DIN	AISI/ASTM
2	Motor stool	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B
3	Shaft	Stainless steel	1.4462	
4	Impeller	Stainless steel	1.4401	AISI 316
5	Chamber	Stainless steel	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
9	Neck ring	Carbon-graphite filled PTFE		
10	Shaft seal	Cartridge type		
11	Bearing ring	Bronze/Carbon graphite filled PTFE		
12	Bottom bearing ring	Ceramic/Tungsten Carbide		
13	Base plate	Cast iron EN-GJS-500-7	EN-JS1050	ASTM 80-55-06
	Other rubber parts	EPDM or FKM		
<b>LCR, LCRH 32, 45, 64 &amp; 90</b>				
1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050	
8	Base	Cast iron EN-GJS-500-7	EN-JS1050	
<b>LCRN, LCRNH 32, 45, 64 &amp; 90</b>				
1	Pump head	Stainless steel	1.4408	CF 8M eq. to AISI 316
8	Base	Stainless steel	1.4408	CF 8M eq. to AISI 316

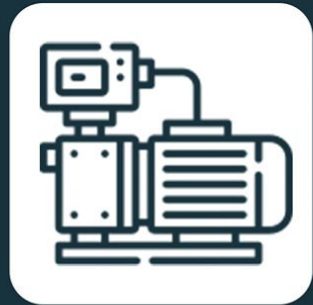


# Product data

## Vertical Multistage Centrifugal Pumps

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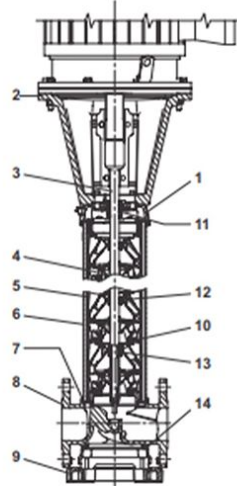
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# LCRH HIGH-PRESSURE VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



### SECTIONAL DRAWING & MATERIALS



POS.	COMPONENT	MATERIAL	LCRH, LCRNH 120 & 150	
			EN/DIN	AISI/ASTM
2	Motor stool (11-45 kW)	Cast iron EN-GJL-200	EN-JL1030	A48-30B
	Motor stool (55-75 kW)	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12
6	Outer sleeve	Stainless steel	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM		
9	Base plate	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12
10	Neck ring	PTFE		
11	Shaft seal*	Cartridge type		
12	Support bearing	PTFE		
13	Bearing ring	SiC/SiC		
	Other rubber parts	EPDM or FKM		

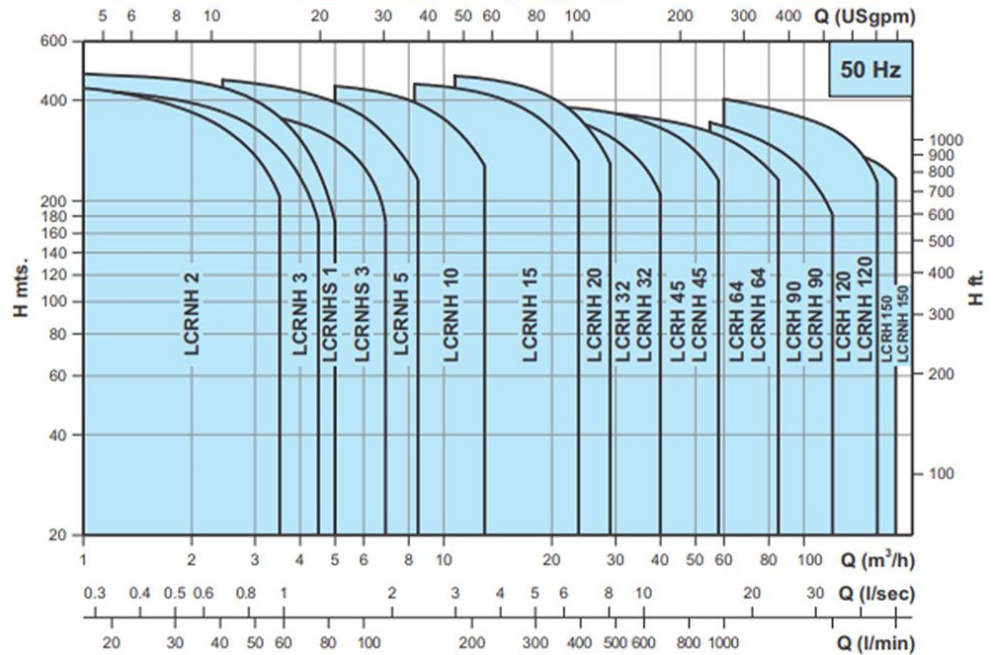
LCR, LCRH 120 & 150			
1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050 A 536 65-45-12
3	Shaft	Stainless steel	1.4057 AISI 431
4	Impeller	Stainless steel	1.4301 AISI 304
5	Chamber	Stainless steel	1.4301 AISI 304
8	Base	Cast iron EN-GJS-500-7	EN-JS1050 A 536 65-45-12

LCRN, LCRNH 120 & 150			
1	Pump head	Stainless steel	1.4408 CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4462 SAF 2205
4	Impeller	Stainless steel	1.4401 AISI 316
5	Chamber	Stainless steel	1.4401 AISI 316
8	Base	Stainless steel	1.4408 CF 8M eq. to AISI 316
14	Base plate	Cast iron EN-GJS-500-7	EN-JS1050 A 536 65-45-12

FIG. 4 LCRH, LCRNH 120 AND 150

\* Ø22 mm shaft - 11 to 45 kW, Ø32 mm shaft - 55 to 75 kW

### PERFORMANCE RANGE





LHC SERIES  
50 HZ

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EQUIPMENT  
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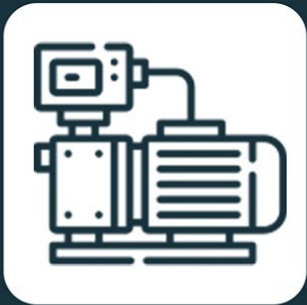
Horizontal split case pumps  
50 Hz



Pumping Solution

# LHC SERIES 50 HZ

IMEN  
DATIS  
ASIA



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## Product data

### Horizontal Split Case Pumps

## LHC

## HORIZONTAL SPLIT CASE PUMPS



### INTRODUCTION

The Lubi LHC series are horizontal split case pumps. The pumps have horizontal pump shaft and the volute casing can be dismantled in the horizontal plane along the drive shaft.

LHC pumps are available in two main designs.

- Single-stage
- Two-stage.

### APPLICATIONS

- Water supply.
- Pressure boosting for high rise buildings, hotels industry etc.
- Industrial washing & cleaning systems.
- Fire protection systems.
- Cooling & Air Conditioning systems.
- Boiler feed and condensate transfer system.
- Irrigation systems for fields including sprinkler & drip irrigation systems.

### FEATURES AND BENEFITS

- The pumps are non-self priming, horizontal, split case pumps with radial suction port and radial discharge port.
- Standard flanges for suction and discharge ports will be PN 16 as per DIN standard EN 1092-2 and PN 25 as per DIN standard EN 1092-2. ANSI 125 and ANSI 250 as per ASME B16.1 are available on request.
- These pumps are long coupled pumps with TEFC squirrel cage induction motor with main dimensions complying to IEC standards and mounting designation B3 (IM 1001).
- These pumps are available with gland packing as well as mechanical shaft seal.
- The pump impellers are dynamically balanced to grade 6.3 of ISO 1940.
- These pumps can be supplied as a complete unit with motor, coupling, coupling guard and fabricated steel base frame.
- These pumps are available with our standard range of EFF2 motors. They can also be supplied with EFF1 motors on request.
- The split case construction enables removal and dismantling of the internal pump parts e.g. bearings, wear rings, shaft seal and impeller without disturbing the motor & pipe work.

### OPERATING CONDITIONS

- Flow range : 20 to 2700 m<sup>3</sup>/h
- Head range : 4 to 160 metres
- Ambient temperature : Max. +45°C for EFF2 motors,  
Max. +60°C for EFF1 motors.
- Liquid temperature range: 0°C to +90°C (with Carbon/Ceramic/NBR/S.S.304 seal)  
0°C to +90°C (with SiC/SiC/Viton/S.S.316 seal)  
0°C to +140°C (with Carbon/SiC/Viton/S.S.316 seal)

### MOTOR

- Motor type : TEFC squirrel cage induction motor
- Ratings : 3 to 315 kW
- Rated speed : 2900, 1450, 960 rpm
- Enclosure class : IP 55
- Insulation class : F
- Nominal voltage : 3 phase 400 V  
(Tolerance +5% / -10%)
- Supply frequency : 50 Hz
- Duty / Rating : S1 / Continuous
- Direction of rotation : Clockwise as seen from the motor rear end

### PUMPED LIQUIDS

LHC pumps are designed for non explosive liquids which are clean and thin without any solid particles. For aggressive liquid please ensure that material of construction is suitable for liquid to be pumped.

If liquids with a viscosity higher than that of water, are to be pumped the power consumption of the pump will increase with increase in viscosity. This will require a large motor for the pump. Head, discharge and pump efficiency will reduce with increase in viscosity.

When pumping liquids with a density higher than that of water, the power consumption of the pump will increase at a ratio corresponding to increase in density.

### VOLUTE CASING

The volute casing of the pumps are designed to be robust in construction to take the undue stress offered by the pipe work. They have a radial suction port and radial discharge port. Standard flanges are PN 16 as per DIN standard EN 1092-2 and PN 25 as per DIN standard EN 1092-2. ANSI 125 and ANSI 250 as per ASME B16.1 are available on request. The volute casing are provided with a priming and drain hole closed by plugs. The single-stage pumps are of the in-line (symmetric) design, whereas the two-stage pumps have asymmetric design.

### SHAFT

The shaft is available in carbon steel as well as stainless steel. A bronze or stainless steel shaft sleeve is provided in the stuffing box to protect the shaft from wear & corrosion. As shaft and bearings are strong and properly sized the pump can be driven by a belt drive or diesel engine without any problem. A water thrower is provided on the shaft to prevent liquid from entering the bearing housing and damaging the bearing. The shaft is supported by bearings at both drive end and non-drive end of the pump.

### BEARINGS

The pumps are fitted with two standard single-row deep groove ball bearings, the bearings are of the open type permitting the bearings to be relubricated. The bearings are lubricated by Lubi prior to delivery.

### IMPELLER

The impeller is a closed impeller with single or double curved blades and extra smooth surface finish and machined completely from outside to ensure high efficiency.

The impeller comes in two variants.

- Double-suction impeller with inflow of liquid from both sides. Double suction impellers are used in single-stage pumps only.
- Single-suction impeller with inflow of liquid from one side. Single suction impellers are used in two-stage pumps only.

Because of hydraulic balancing the axial thrust on bearings are compensated giving a longer bearing life.

Two stage pumps have two laterally reversed single-suction impellers mounted back-to-back.

They are dynamically balanced to grade 6.3 of ISO 1940.

All impeller can be trimmed to adopt them for the duty point requested by the customer.

Suggested trimmed impeller diameter as shown on the performance curves in data booklet are theoretical. Performance may vary from what is shown on the performance curve.

### WEAR RINGS

The pump have wear rings (pos.2) between impeller (pos.1) and volute casing.

The wear rings protect the volute casing against wear. Besides, the wear rings have a sealing function between impeller and volute casing.

When the wear rings worn out, the efficiency of the pump will be reduced, and wear rings should be replaced. The wear rings are made of same material as the impeller.

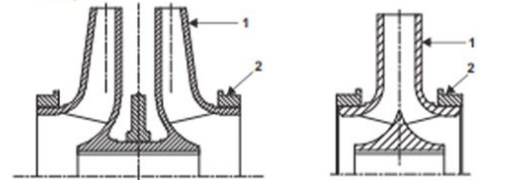


FIG. 1 SINGLE-SUCTION IMPELLER

FIG. 2 DOUBLE-SUCTION IMPELLER

### COUPLING

LHC pumps are fitted with a tyre type flexible cushion coupling.

These couplings are highly flexible, resilient and absorbs large misalignment.

Due to the coupling design, the rotating assembly of LHC pumps can be removed and serviced without dismantling the motor from the base frame.

### BASE FRAME

Pump and motor are mounted on a common steel base frame in the form of welded, steel c-channel profile.

### MECHANICAL SHAFT SEAL

The shaft seal is an unbalanced, mechanical shaft seal.

Two types are available as standard:

- A rubber bellows type (M1) for single-stage and two-stage pumps.
- A cartridge type (M2) with O-ring for single-stage and two-stage pumps.

### STUFFING BOX

Stuffing boxes are available with lantern rings & graphite gland packing rings.

### TEST PRESSURE

All impellers are hydrostatic tested for leakage as per the following test pressure using water containing corrosion inhibitor at room temperature.

PRESSURE RATING	OPERATING PRESSURE	TEST PRESSURE
PN 16	16 bar	24 bar
PN 25	25 bar	37.5 bar
ANSI 125	125 psi	188 psi
ANSI 250	250 psi	375 psi

### MOTORS

The motors are squirrel cage induction motors, Totally Enclosed Fan Cooled with main dimensions to IEC standards.

The standard motors with the pumps are all as per EFF2 efficiency. EFF1 efficiency motors can be available on request.

### COUNTER FLANGES

Cast iron pumps (version-A,B,C,D): For threaded connection, flanges are made of cast iron. For welding connection, flanges are made of carbon steel.

A set consist of one counter flange, one gasket of rubber material and the requisite number of bolts and nuts.





# Product data

## Horizontal Split Case Pumps

LHC SERIES  
50 HZ

IMEN  
DATIS  
ASIA

**LHC**

**HORIZONTAL SPLIT CASE PUMPS**



SECTIONAL DRAWING & MATERIALS

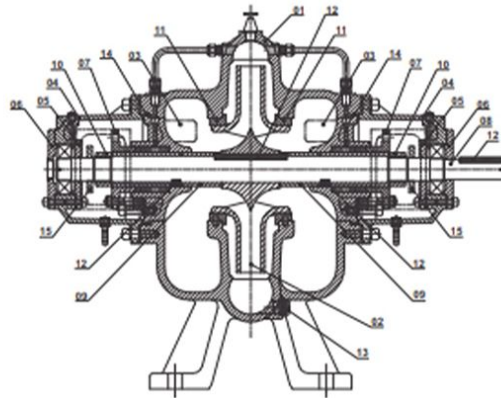


FIG. 3 SINGLE-STAGE LHC PUMP

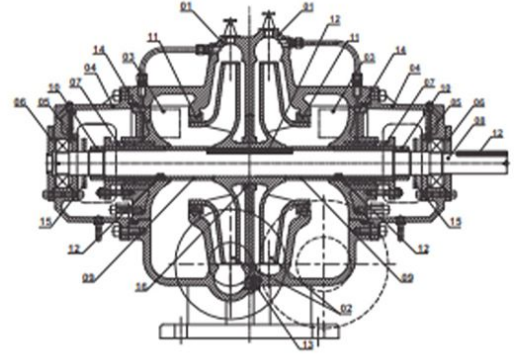
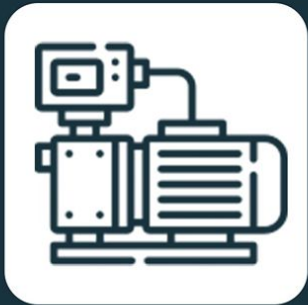


FIG. 4 TWO-STAGE LHC PUMP

POS.	COMPONENT	SINGLE-STAGE LHC PUMP				TWO-STAGE LHC PUMP			
		A-VERSION	B-VERSION	C-VERSION	D-VERSION	A-VERSION	B-VERSION	C-VERSION	D-VERSION
1	Volute casing	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
2	Impeller	Cast iron	Bronze	CF-8	CF-8M	Cast iron	Bronze	CF-8	CF-8M
3	Back cover	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
4	Bearing housing	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
5	Internal bearing cover	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
6	External bearing cover	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
7	Gland follower	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
8	Shaft	Carbon Steel	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	Carbon Steel	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
9	Shaft sleeve	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
10	Lock nut	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
11	Wear ring	Bronze	Bronze	CF-8	CF-8M	Bronze	Bronze	CF-8	CF-8M
12	Key	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316	S.S. AISI 410	S.S. AISI 410	S.S. AISI 304	S.S. AISI 316
13	Plugs	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
14	O-ring	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR
15	Water thrower	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR
16	Centre ring	-	-	-	-	Cast iron	Cast iron	Cast iron	Cast iron

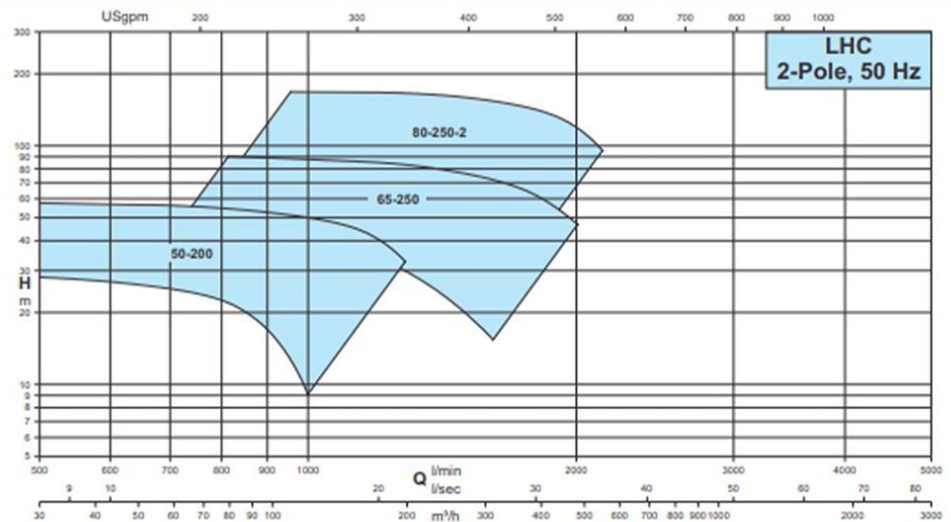


## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



PERFORMANCE RANGE





# Product data

## Horizontal Split Case Pumps

LHC SERIES  
50 HZ

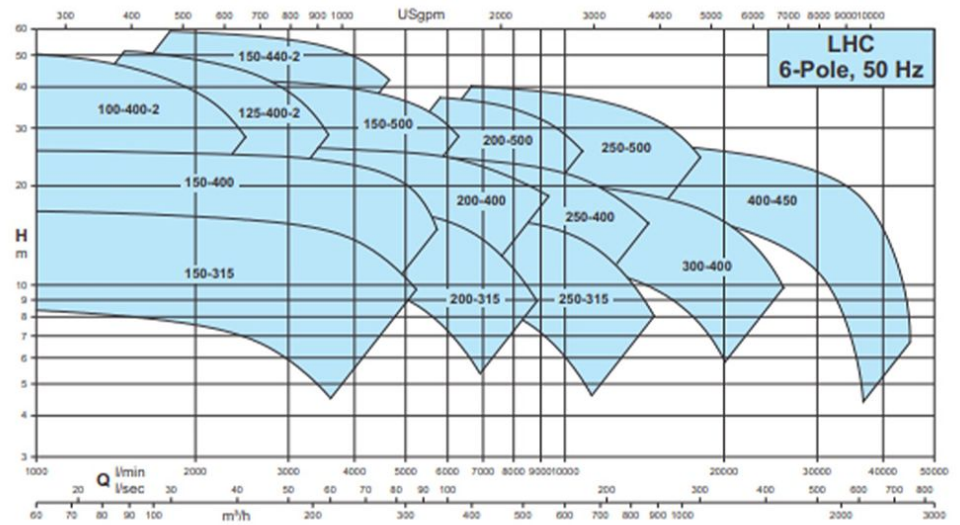
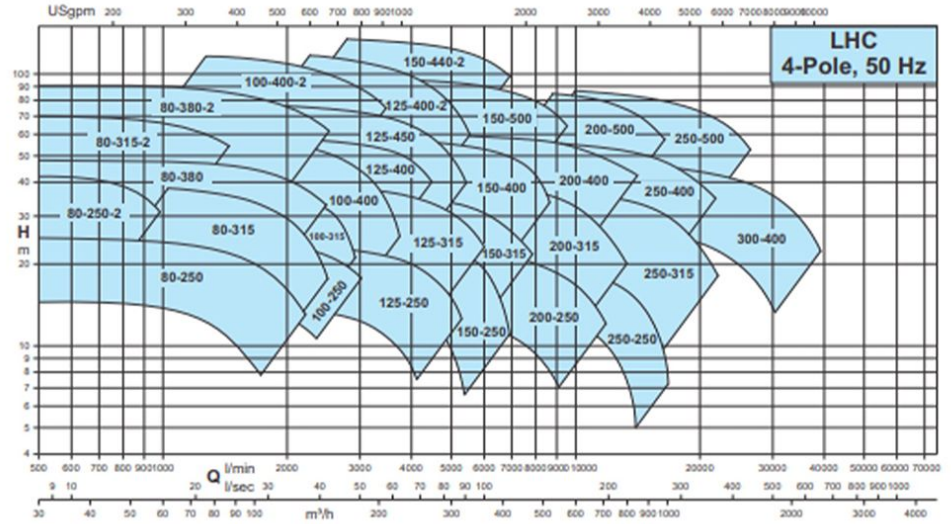
IMEN  
DATIS  
ASIA

**LHC**

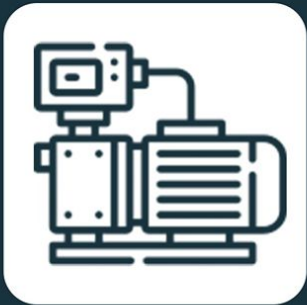
**HORIZONTAL SPLIT CASE PUMPS**



### PERFORMANCE RANGE



NOTE: LHC 80-250-2, LHC 80-315-2, LHC 80-380-2, LHC 100-400-2, LHC 125-400-2 AND LHC 150-440-2 ARE TWO STAGE PUMPS.



### EQUIPMENT SUPPLY SERVICES

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details and order services

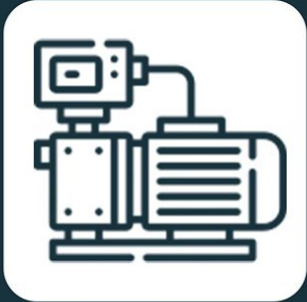




LCR SERIES  
50 HZ

IMEN  
DATIS  
ASIA

Vertical Multistage Centrifugal Pumps  
50 Hz



EQUIPMENT  
SUPPLY  
SERVICES

Scan the small QR to view  
details and order services





# Product data

## Vertical Multistage Centrifugal Pumps

LCR SERIES  
50 HZ

IMEN  
DATIS  
ASIA

### LCR VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



#### INTRODUCTION

The Lubi LCR, LCRI, LCRN series are non-self-priming, vertical multistage centrifugal pumps.

The vertical in-line design enables the pump to be installed in a horizontal plane single system where the suction and discharge connections are in the same horizontal plane (in-line) and have the same pipe sizes. This design provides a more compact pump design saving space and easy pipe work.

The pump consists of a base and a pump head. The chamber stack and the outer sleeve are secured between the pump head and the base by means of tiebolts. All pumps are equipped with a maintenance-free mechanical shaft seal.

These pumps come with various sizes and various numbers of stages to provide the flow and the pressure for different site conditions. These pumps are suitable for a wide variety of applications from pumping of potable water to the pumping of chemicals.

These pumps are available in various material versions according to the pumped liquid.

#### Version

- LCR: Cast iron and stainless steel EN 1.4301/AISI 304
- LCRI: Stainless steel EN 1.4301/AISI 304
- LCRN: Stainless steel EN 1.4401/AISI 316

LCR, LCRI pumps are suitable for non corrosive liquids.

LCRN pumps are suitable for industrial liquids in systems where all parts in contact with the liquid must be made of high-grade stainless steel.

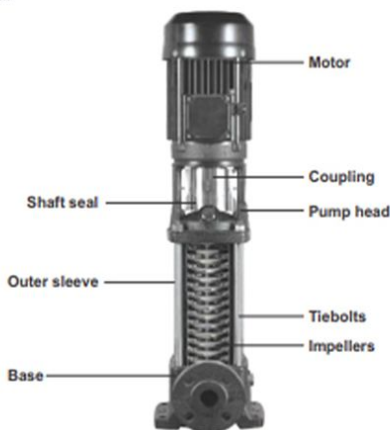


FIG. 1 LCR PUMP

#### APPLICATIONS

For thin, non-explosive, not containing solid particles or fibers, non-corrosive liquids are suitable.

For liquid transfer, circulation and pressure boosting of cold or hot clean water.

For water supply systems, pressure boosting systems, liquid transfer and irrigation works.

#### OPERATING CONDITIONS

Flow range : 0.3 to 180 m<sup>3</sup>/h  
 Head range : Up to 320 metres  
 Ambient temperature : Max. + 40°C  
 Liquid temperature range: -40°C to +120°C

#### MOTOR

LCR, LCRI and LCRN pumps are fitted with a Totally Enclosed Fan Cooled, 2-pole motor with principal dimensions in accordance with the EN standards.

Electrical tolerances according to EN 60034.

From 0.37 to 2.2 kW Lubi offers LCR pumps fitted with single-phase motors (1 x 220-230/240 V).

- Motor type : TEFC 2-pole motor
- Ratings : 1 phase - 0.37 to 2.2 kW  
3 phase - 0.37 to 75 kW
- Rated speed : 2900 rpm
- Mounting designation : Up to 4 kW - V18 and From 5.5 kW - V1
- Enclosure class : IP 55
- Insulation class : F
- Nominal voltage (Tolerance ±10%) : 1 phase 220-230/240 V - 0.37 to 2.2 kW  
3 phase 220-240/380-415 V - 0.37 to 3 kW  
3 phase 380-415 V - 4 to 75 kW
- Supply frequency : 50 Hz
- Maximum nos. of starts/hour : 0.37 to 4 kW - 20,  
5.5 to 45 kW - 10,  
55 to 75 kW - 5
- Direction of rotation : Anticlockwise as seen from the motor rear end

#### PUMPED LIQUIDS

Thin non-explosive liquids and not containing solid particles or fibers are suitable. The liquid must also not chemically attack the pump materials.

When pumping liquids with a density and/or viscosity higher than that of water, oversized motors must be used, if required.

Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are the chloride content, pH value, temperature and content of chemicals, oils etc.

Please note that aggressive liquids (e.g. sea water and some acids) may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

The LCR, LCRI, LCRN pump types are suitable for the following liquids.

#### LCR, LCRI

- Non-corrosive liquids.
- For liquid transfer, circulation and pressure boosting of cold or hot clean water.

#### LCRN

- Industrial liquids.
- In systems where all parts in contact with the liquid must be made of high-grade stainless steel.

#### OPERATING RANGE OF THE SHAFT SEAL

The operating range of the shaft seal depends on operating pressure, pump type, type of shaft seal and liquid temperature. The following table apply to clean water and water with anti-freeze liquids.

SHAFT SEAL	DESCRIPTION	Max. temperature range [°C]
BBQE	Below type shaft seal, Carbon/SiC/SS 316/EPDM	-40°C to +120°C
BBQV	Below type shaft seal, Carbon/SiC/SS 316/FKM	-40°C to +120°C
HQQE	Cartridge type shaft seal, SiC/SiC/SS 316/EPDM	-40°C to +120°C
HBQE	Cartridge type shaft seal, Carbon/SiC/SS 316/EPDM	0°C to +120°C
HBQV	Cartridge type shaft seal, Carbon/SiC/SS 316/FKM	0°C to +90°C
HQQV	Cartridge type shaft seal, SiC/SiC/SS 316/FKM	-20°C to +90°C

#### COUNTER FLANGES

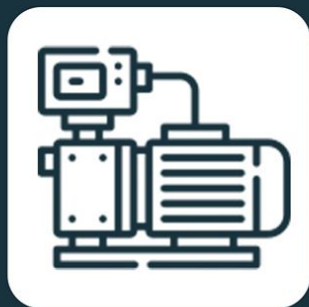
##### COUNTER FLANGES FOR LCR

A set consists of one counter flange of cast iron for threaded & carbon steel for welded connection, one gasket, bolts and nuts.

##### COUNTER FLANGES FOR LCRI, LCRN

Counter flanges for LCRI pumps are made of stainless steel according to EN 1.4301 (AISI 304) and for LCRN pump are made of stainless steel according to EN 1.4401 (AISI 316).

A set consists of one counter flange, one gasket, bolts and nuts.



### EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services





# Product data

## Vertical Multistage Centrifugal Pumps

LCR SERIES  
50 HZ

IMEN  
DATIS  
ASIA

### LCR VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



#### SECTIONAL DRAWING & MATERIALS

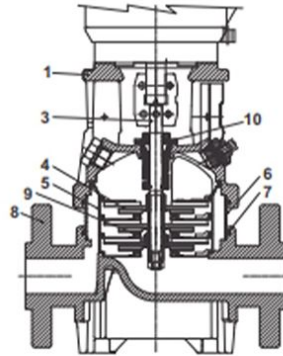


FIG. 2 LCR 1s, 1, 2, 3, 4, 5, 10, 15 AND 20

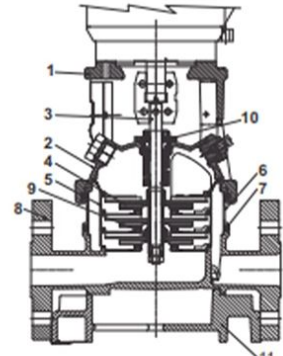


FIG. 3 LCRI, LCRN 1s, 1, 2, 3, 4, 5, 10, 15 AND 20

POS.	COMPONENT	MATERIAL	LCR 1s, 1, 2, 3, 4, 5, 10, 15 & 20		LCRI 1s, 1, 2, 3, 4, 5, 10, 15 & 20		LCRN 1s, 1, 2, 3, 4, 5, 10, 15 & 20	
			EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B
2	Pump head cover	Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
3	Shaft	Stainless steel	1.4401	AISI 316	1.4401	AISI 316	1.4401	AISI 316
4	Impeller	Stainless steel	1.4301	AISI 431	1.4460	AISI 329	1.4460	AISI 329
5	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM	-	-	-	-	-	-
8	Base	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B	-	-	-	-
		Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
9	Neck ring	PTFE	-	-	-	-	-	-
10	Shaft seal	Bellow/Cartridge type	-	-	-	-	-	-
11	Base plate	Cast iron EN-GJL-200	-	-	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B
	Rubber parts	NBR or FKM	-	-	-	-	-	-



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services

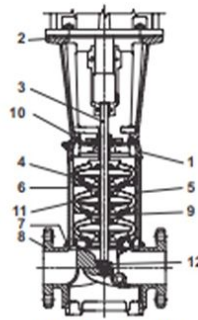


FIG. 4 LCR 32 AND 45

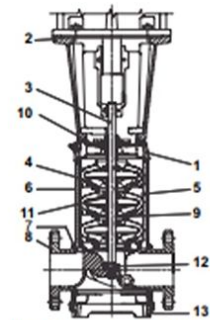


FIG. 5 LCRI, LCRN 32 AND 45

POS.	COMPONENT	MATERIAL	LCR 32 & 45		LCRI 32 & 45		LCRN 32 & 45	
			EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050	ASTM 80-55-06	-	-	-	-
		Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
2	Motor stool	Cast iron EN-GJL-200	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B	EN-JL1030	ASTM 25B
3	Shaft	Stainless steel	1.4057	AISI 431	1.4462	-	1.4462	-
4	Impeller	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
5	Chamber	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
7	O-ring for outer sleeve	EPDM or FKM	-	-	-	-	-	-
8	Base	Cast iron EN-GJS-500-7	EN-JS1050	ASTM 80-55-06	-	-	-	-
		Stainless steel	-	-	1.4308	CF 8 eq. to AISI 304	1.4408	CF 8M eq. to AISI 316
9	Neck ring	Carbon-Graphite filled PTFE	-	-	-	-	-	-
10	Shaft seal	Cartridge type	-	-	-	-	-	-
11	Bearing ring	Bronze	-	-	-	-	-	-
		Carbon-Graphite filled PTFE	-	-	-	-	-	-
12	Bottom bearing ring	SiC/SiC	-	-	-	-	-	-
13	Base plate	Cast iron EN-GJS-500-7	-	-	EN-JS1050	ASTM 80-55-06	EN-JS1050	ASTM 80-55-06
	Rubber parts	NBR or FKM	-	-	-	-	-	-





# Product data

## Vertical Multistage Centrifugal Pumps

LCR SERIES  
50 HZ

IMEN  
DATIS  
ASIA

### LCR VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



#### SECTIONAL DRAWING & MATERIALS

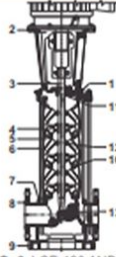


FIG. 6 LCR 120 AND 150

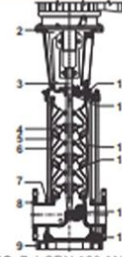


FIG. 7 LCRN 120 AND 150

POS.	COMPONENT	MATERIAL	LCR 120 & 150		LCRN 120 & 150	
			EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM
1	Pump head	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	-	-
2	Motor stool (11-45 kW)	Stainless steel	-	-	1.4408	CF 8M eq. to AISI 316
2	Motor stool (55-75 kW)	Cast iron EN-GJL-200	EN-JL 1030	A48-30 B	EN-JL1030	A48-30 B
3	Shaft	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	EN-JS1050	A 536 65-45-12
3	Shaft	Stainless steel	1.4057	AISI 431	1.4402	AISI 316
4	Impeller	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
5	Chamber	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
6	Outer sleeve	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
7	O ring for outer sleeve	EPDM or FKM	-	-	-	-
8	Base	Cast iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	-	-
8	Base	Stainless steel	-	-	1.4408	CF 8M eq. to AISI 316
9	Base plate	Cast Iron EN-GJS-500-7	EN-JS1050	A 536 65-45-12	EN-JS1050	A 536 65-45-12
10	Neck ring	Carbon-Graphite filled PTFE/NBR	-	-	-	-
11	Shaft seal	Cartridge type	-	-	-	-
12	Support bearing	Carbon-Graphite filled PTFE	-	-	-	-
13	Bearing ring	Tungsten carbide	-	-	-	-
14	Base plate	Cast iron EN-GJS-500-7	-	-	EN-JS1050	A 536 65-45-12
14	Rubber parts	NBR or FKM	-	-	-	-

Note: \* Ø22 mm shaft - 11 to 45 kW  
Ø32 mm shaft - 55 to 75 kW

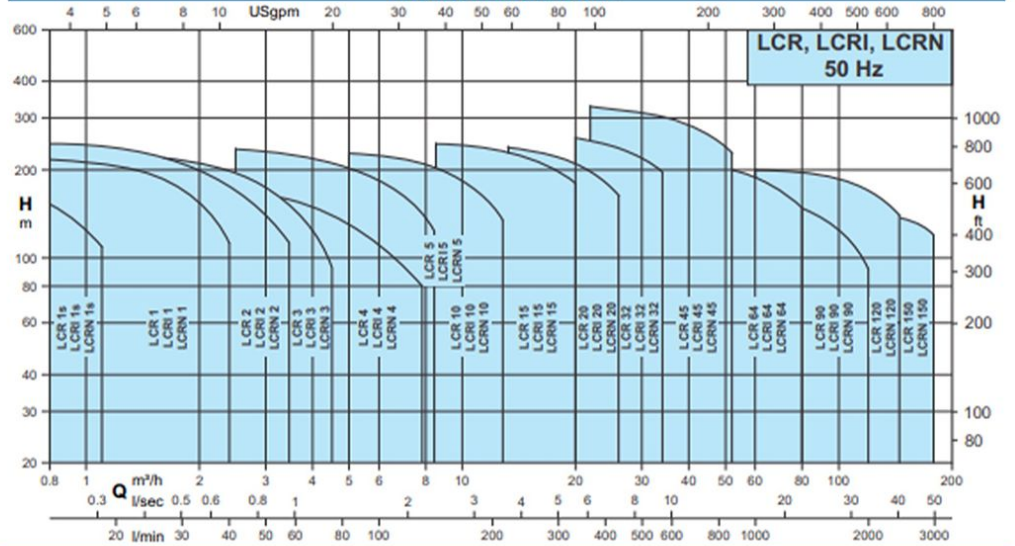


### EQUIPMENT SUPPLY SERVICES

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#### PERFORMANCE RANGE





# ALARM VALVE

IMEN  
DATIS  
ASIA



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



# SAFEX FIRE

Safex Alarm Valve are designed to confirm to International Standard. It is highly anti-corrosive are made of cast bronze. The Alarm Valve is divided into paddle type, retard chamber type, alarm switch type and groove type depending on the condition of use.



FAVB 100(150)R-UL



### Specification

Model No.	FAVB 100R - UL	FAVB 150R - UL
Size	100NB	150NB
Approved Standards	UL and FM	UL and FM
Max, Flow	175 PSI	175 PSI
Test Pressure	350 PSI	350 PSI
Direction	Vertical	Vertical
Flange	ANSI 150lb FF Type	ANSI 150lb FF Type
Weight (Kg)	35	53.7
Packing (Ea)	1	1

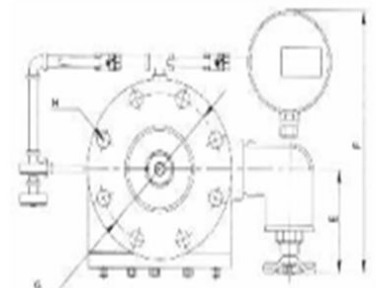
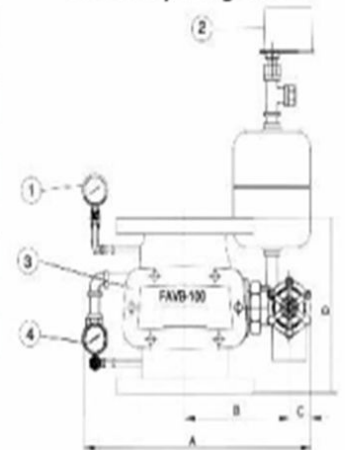
### Dimension

Model No. Size	A	B	C	D	E	F	G	H
FAVB 100R UL & FM	394	169	50	250	153	353	190.5	8-ø19
FAVB 150R UL & FM	459	199	50	280	153	378	241.5	8-ø23

### Part List

No.	Part	Material	Qty.
1	Alarm Valve Body	FC200	1
2	Pressure Switch	AC125/250	1
3	Pressure Gauge (Outlet)		1
4	Pressure Gauge (Inlet)		1

### Assembly Diagram





# SAFEX FIRE

The **GULF FIRE**® Pressure Regulating Landing Valves are manufactured according to the specifications of **BS 5041-1:1987** Standard and certified by **BSI** for **Kitemark**.® **GULF FIRE**® Pressure Regulating Landing Valves are suitable to install in Wet Riser System which have permanent Water supply. The inlet of the Landing Valves may be either Screwed or Flanged and the Outlet will be Female Instantaneous Type as per **BS 336:2010**.

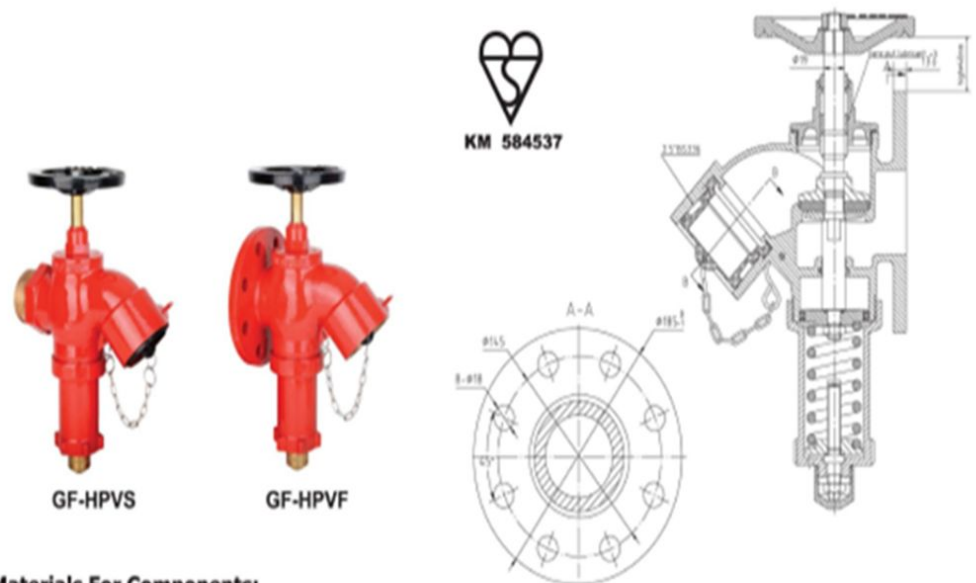
### Technical Specification:

Model No	GF-HPVS ( Screwed Inlet )	GF-HPVF ( Flanged Inlet)
Water Flow Rate	8.5 L/s @ Inlet Pressure 4.7 bar, Outlet Pressure > 4 bar	
Nominal Size	65 mm	
Max. Working Pressure	20 bar	
Test Pressure	Body : 30 bar , Valve Seat Test : 22.5 bar	
Flanged Inlet	BS 4504 - 2: 1974 Table : 25/21	
Screwed Inlet	BS 21	
Outlet	Bib-nose Type 2.5" Instantaneous BS 336:2010	



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



### Materials For Components:

Parts	Material
Body & Outlet	Copper Alloy BS 1400 , LG2
Bonnet & Disk	Copper Alloy BS 2872 , CZ 122
Stem	Copper Alloy BS 2874 , CZ 121
Handwheel	Grey Cast Iron BS 1452 , Grade 180
Pressure Regulating Spring	Chrome Vanadium Steel BS 970-5 Grade 735 A50





## Product data

NRS TYPE GATE VALVE

# NRS TYPE GATE VALVE



# SAFEX FIRE

## IMEN DATIS ASIA



### EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



### 105QS / 108QS

105QS / 108QS Non-rising Stem Groove Joint Ends Resilient Wedge Gate Valves

1 Bolted Bonnet-Non-Rising Stem-Resilient Wedge-Flanged XGroove-GrooveXGroove

2 250 PSI/300 PSI/17.2 Bar Non-Shock Cold Working Pressure

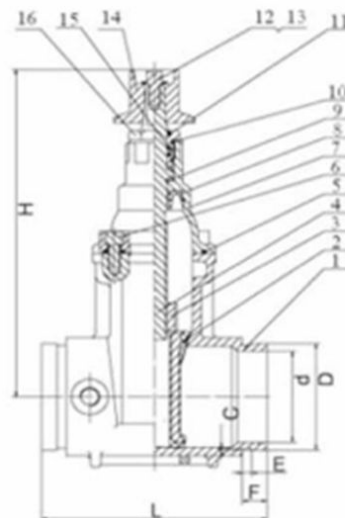
3 CONFORMS TO AWWA C 509.

4 Coating-Electrostatically applied fusion-bonded epoxy 0.2-0.5mm. inside and outside. Meets or exceeds AWWA C550. Maximum operating temperature 160°C/71°C. Freezing Weather Precaution-Subsequent to testing a piping system, valves should be in an open position to allow complete drainage.



### 105QS Groove X Groove Non-rising Stem Groove

Assembly Diagram



Freezing Weather Precaution-Subsequent to testing a piping system, valves should be in an open position to allow complete drainage.





# Product data

NRS TYPE GATE VALVE

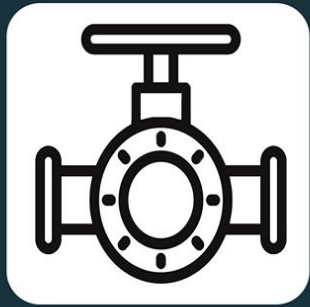
## NRS TYPE GATE VALVE

108QS

IMEN  
DATIS  
ASIA



108QS Groove X Flanged  
Non-rising Stem Groove



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



Size	Dimension																		Bolt Circle	Flange Holes	Turns To Open		
	L		C		D		E		F		G		d		D1		T						
In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm		
3	80	8.0	203	0.08	2	3.50	89	0.35	9	0.98	25	10.00	254	3.0	73	7.5	191	0.75	19	6.00	152.5	4-φ19	10.5
4	100	9.0	229	0.08	2	4.49	114	0.35	9	0.98	25	10.00	254	4.0	100	9.0	229	0.94	24	7.50	190.5	8-φ19	13.75
6	150	10.5	267	0.08	2	6.61	168	0.35	9	0.98	25	12.40	315	6.0	150	11.0	279	1.00	25.4	9.50	241	8-φ23	16
8	200	11.5	292	0.09	2.3	8.62	219	0.47	12	1.22	31	14.76	375	8.0	200	13.5	343	1.13	28.6	11.73	298.5	8-φ23	17.5
10	250	13.0	330	0.10	2.55	10.74	272.9	0.52	13.2	1.25	31.7	16.38	416	10	250	15.95	406	1.19	30.2	14.25	362	12-φ23	21.5
12	300	14.0	356	0.13	3.35	12.78	324.5	0.52	13.2	1.25	31.7	17.52	445	12	300	19.02	483	1.25	31.8	17.01	432	12-φ23	26

No.	Part List	Specification
1	Valve Body	Cast Iron ASTM A 536
2	Resilient Wedge	Ductile Iron ASTM A 536/EPDM ASTM D 2000
3	Wedge Nut	Bronze ASTM B 584 UNS C83600
4	Stem	Stainless Steel ASTM A 276 UNS C41000
5	Bonnet Gasket	EPDM ASTM D 2000
6	Bonnet Screw	Alloy Steel ASTM A 574M Zinc Plated
7	Bonnet	Cast Iron ASTM A 126-B
8	Stem Primary O-Ring	EPDM ASTM D 2000
9	Stem Thrust Washer	Stainless Steel ASTM A 276 UNS C41000
10	Gland Seal O-Ring	EPDM ASTM D 2000
11	Stem Ring Wiper	EPDM ASTM D 2000
12	Operating Nut Washer	Carbon Steel Zinc Plated
13	Operating Nut Screw	Alloy Steel ASTM A 574M Zinc Plated
14	Square Operating Nut	Cast Iron ASTM A 126-B
14A	Handwheel(Optional)	Ductile Iron ASTM A 536
15	Stem Secondary O-Ring	EPDM ASTM D 2000
16	Stem Seal Bushing	Brass ASTM B 16 UNS C36000



# Product data

## NRS TYPE GATE VALVE

# NRS TYPE GATE VALVE

IMEN  
DATIS  
ASIA

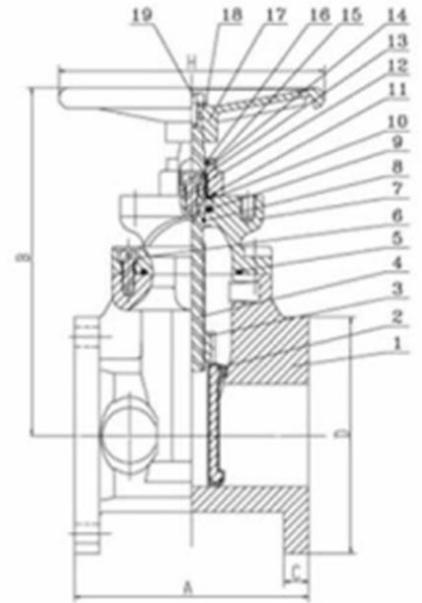
S909

S909 Non-rising Stem Flanged Joint Ends Resilient Wedge Gate Valves

- 1 Bolted Bonnet-Non-Rising Stem-Resilient Wedge-Flanged Ends
- 2 250 PSI/300 PSI/17.2 Bar Non-Shock Cold Working Pressure
- 3 CONFORMS TO AWWA C509



Assembly Diagram



S909 Flanged X Flanged  
Non-rising Stem Flanged



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



Shown with optional handwheel  
Freezing Weather Precaution-  
Subsequent to testing a should be an  
open position to plate drainage.



# Product data

## NRS TYPE GATE VALVE

# NRS TYPE GATE VALVE

IMEN  
DATIS  
ASIA

S909



S909 Flanged X Flanged  
Non-rising Stem Flanged

Size		Dimension										Bolt Circle		Flange Holes	Turns To Open	Weight	
		A		B		C		D		H						Lbs.	kg
In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm				
2	50	7.0	178	10.0	255	0.63	16.0	6.0	152	7.9	200	4.75	121	4	6.5	30	14
2½	65	7.5	190	11.3	287	0.69	17.5	7.0	178	7.9	200	5.50	140	4	8.8	35	16
3	80	8.0	203	12.6	321	0.75	19.0	7.5	191	10.2	260	6.00	152	4	10.6	45	20
4	100	9.0	229	13.5	344	0.94	24.0	9.0	229	10.2	260	7.50	191	8	13.0	71	32
6	150	10.5	267	17.4	441	1.00	25.4	11.0	279	14.8	375	9.50	241	8	15.6	122	55
8	200	11.5	292	20.8	529	1.13	28.6	13.5	343	14.8	375	11.75	298	8	17.3	196	89
10	250	13.0	330	24.2	614	1.19	30.2	16.0	406	15.7	400	14.25	362	12	21.4	294	134
12	300	14.0	356	27.6	700	1.25	31.8	19.0	483	19.7	500	17.00	432	12	25.3	426	194

No.	Part List	Specification
1	Valve Body	Ductile Iron ASTM A 536
2	Resilient Wedge	ASTM D 2000 Ductile Iron ASTM A 536/EPDM ASTM D 2000
3	Wedge Nut	Bronze ASTM B 584 UNS C83600
4	Stem	Bronze ASTM B 150 UNS C61400
5	Bonnet Gasket	EPDM ASTM D 2000
6	Bonnet Screw	Alloy Steel ASTM A 574M Zinc Plated
7	Bonnet	Ductile Iron ASTM A 536
8	Stem Primary O-Ring	EPDM ASTM D 2000
9	Stem Thrust Washer(lower)	Bronze ASTM B 584 UNS C83600
10	Stem Thrust Washer(upper)	Stainless Steel ASTM A276 UNS S41000
11	Gland Seal O-Ring	EPDM ASTM D 2000
12	Stem Seal Bushing	Bronze ASTM B 584 UNS C83600
13	Stem Secondary O-Ring(2)	EPDM ASTM D 2000
14	Gland Flange	Ductile Iron ASTM A 536
15	Gland Flange Screw	Alloy Steel ASTM A 574M Zinc Plated
16	Stem Ring Wiper	EPDM ASTM D 2000
17	Square Operating Nut	Cast Iron ASTM A 126-B
17A	Handwheel(Optional)	Ductile Iron ASTM A 536
18	Flat Washer	Carbon Steel Zinc Plated
19	Screw	Alloy Steel ASTM A 574M Zinc Plated



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services





# Product data

OS & Y TYPE GATE VALVE

## OS & Y TYPE GATE VALVE



# SAFEX FIRE

135QS / 138QS

250 PSI AWWA C509 Iron Body Rising Stem Groove Joint Ends Resilient Wedge Gate Valves

- 1 Bolted Bonnet · Non-Rising Stem · Resilient Wedge · FlangedxGroove · GroovexGroove
- 2 250 PSI/17.2 Bar Non-Shock Cold Working Pressure 250 PSI / 17.2 Bar
- 3 250 PSI/17.2 Bar Non-Shock Cold Working Pressure (160° F/71° C max. operating temperature)
- 4 CONFORMS TO AWWA C509

FREEZING WEATHER PRECAUTION: Subsequent to testing a piping system, gate valve should be in an open position to allow complete drainage.

\* Electrostatically applied fusion-bonded epoxy coated inside and outside per AWWA C-550



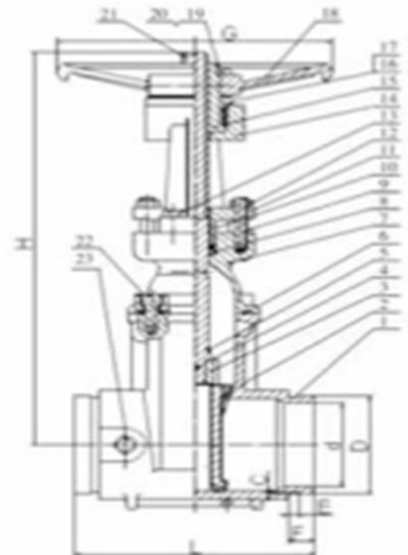
### EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



135 QS Groove x Groove

### Assembly Diagram



FREEZING WEATHER PRECAUTION: subsequent to testing a piping system, gate valve should be in an open position to allow complete drainage.



# Product data

## OS & Y TYPE GATE VALVE

IMEN  
DATIS  
ASIA

135QS / 138QS



138 QS Flanged x Groove



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



Size	Dimension																				Bolt Circle	Flange Holes	Turns To Open				
	A		H Open		H Closed		C		D		E		F		G		D		D1					T			
In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
3	80	8.0	203	20.1	510	15.9	405	0.08	2	3.50	89	0.35	9	0.98	25	10.00	254	3.0	73	7.5	191	0.75	19	6.00	152.5	4-Φ19	10.5
4	100	9.00	229	22.4	568	16.6	422	0.08	2	4.49	114	0.35	9	0.98	25	10.00	254	4.0	100	9.0	229	0.94	24	7.05	190.5	8-Φ19	13.75
6	150	10.5	267	30.3	769	22.9	581	0.08	2	6.61	168	0.35	9	0.98	25	12.40	315	6.0	150	11.0	279	1.00	25.4	9.50	241	8-Φ23	16
8	200	11.5	292	37.8	960	28.5	724	0.09	2.3	8.62	219	0.47	12	1.22	31	14.76	375	8.0	200	13.5	343	1.13	28.6	11.73	298.5	8-Φ23	17.5
10	250	13	330	45.1	1145	35.1	891	0.1	2.55	10.74	272.9	0.52	13.2	1.25	31.7	16.38	416	10	250	15.98	406	1.19	30.2	14.25	362	12-Φ26	21.5
12	300	14	356	52.4	1330	40.2	1020	0.13	3.35	12.78	324.5	0.52	13.2	1.25	31.7	17.52	445	12	300	19.2	483	1.25	31.8	17.01	432	12-Φ26	26

No.	Part List	Specification
1	Valve Body	Ductile Iron ASTM A 536
2.	Resilient Wedge	STM D 2000 Ductile Iron ASTM A 536/EPDM ASTM D 2000
3.	Wedge Nut	Bronze ASTM B 584 UNS C83600
4.	Dowel Pin	Stainless Steel ASTM A 276 UNS S42000
5.	Stem Back Seat O-Ring	EPDM ASTM D 2000
6.	Bonnet Gasket	EPDM ASTM D 2000
7.	Bonnet	Ductile Iron ASTM A 536
8.	Stem Packing	EPDM ASTM D 2000
9.	Threaded Rod	Carbon Steel Zinc Plated
10.	Gland Bushing	Bronze ASTM B 584
11.	Gland	Cast Iron ASTM A 126-B
12.	Gland Nut	Stainless Steel 18-8
13.	Yoke Screw	Alloy Steel ASTM A 574M Zinc Plated
14.	Yoke	Cast Iron ASTM A 126-B
15.	Yoke Bushing	Bronze ASTM B 584
16.	Flat Point Set Screw	Alloy Steel ASTM F 912M Black Oxide
17.	Yoke Bushing Retainer	Cast Iron ASTM A 126-B
18.	Handwheel	Ductile Iron ASTM A 536
19.	Handwheel Nut	Carbon Steel Zinc Plated
20.	Flat Head Screw	Carbon Steel Zinc Plated
21.	Stem	Bronze ASTM B 150 UNS C61400
22.	Bonnet Screw	Alloy Steel ASTM A 574M Zinc Plate



## Product data

NRS TYPE GATE VALVE

NRS TYPE  
GATE VALVE



# SAFEX FIRE

SJ 909

### SJ909 Mechanical Joint Ends Resilient Wedge Gate Valves

- 1 Bolted Bonnet-Non-Rising Stem-Resilient Wedge-MJ Ends 250 PSI/17.2 Bar
- 2 250 PSI/300 PSI/17.2 Bar Non-Shock Cold Working Pressure
- 3 CONFORMS TO AWWA C509
- 5 Coating-Electrostatically applied fusion-bonded epoxy 0.2-0.5mm.inside and outside. Meets or exceeds AWWA C550.Maximum operating temperature 160°F/71°C.
- 6 Freezing Weather Precaution Subsequent to testing a piping system, valves should be in an open position to allow complete drainage.

IMEN  
DATIS  
ASIA



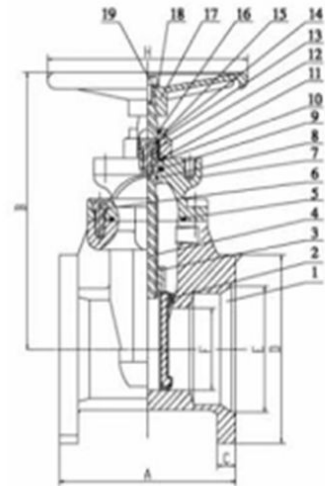
EQUIPMENT  
SUPPLY  
SERVICES

Scan the small QR to view  
details and order services



SJ909 Flanged X Flanged

### Assembly Diagram



Shown with optional hand wheel  
Freezing weather Precaution-  
Subsequent to testing a should be in an  
open position to plate drainage.



# Product data

## NRS TYPE GATE VALVE

# NRS TYPE GATE VALVE

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DATIS  
ASIA



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



SJ 909



SJ909 Flanged X Flanged

Size		Dimension																Bolt Circle	Flange Holes	Turns To Open	Weight	
		A		B		C		D		E		F		H		Lbs	Kg					
In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm					
3	80	8.0	203	12.7	322	0.94	24	7.7	196	4.9	126	3.1	80	12.2	260	6.19	157	4	10.8	43	20	
4	100	10.0	254	13.5	344	1.00	26	9.1	232	6.0	153	3.9	100	10.2	260	7.50	191	4	13.0	70	36	
6	150	11.5	292	17.4	441	1.06	27	11.1	283	8.1	206	5.9	150	14.8	375	9.50	241	6	15.7	112	51	
8	200	11.5	292	20.8	529	1.12	28	13.4	340	10.3	261	7.9	300	14.8	375	11.75	298	6	17.3	170	77	
10	250	13.0	330	24.2	614	1.18	30	15.7	400	12.3	313	9.8	250	15.7	400	14.00	356	8	21.4	267	121	
12	300	14.0	356	27.6	700	1.25	32	18.0	456	14.4	367	11.8	300	19.7	500	16.25	413	8	25.3	388	176	

Part List	Specification
1 Valve Body	Ductile Iron ASTM A 536
2 Resilient Wedge	ASTM D 2000 Ductile Iron ASTM A 536/EPDM ASTM D 2000
3 Wedge Nut	Bronze ASTM B 584 UNS C83600
4 Stem	Bronze ASTM B 150 UNS C61400
5 Bonnet Gasket	EPDM ASTM D 2000
6 Bonnet Screw	Alloy Steel ASTM A 574M Zinc Plated
7 Bonnet	Ductile Iron ASTM A 536
8 Stem Primary O-Ring	EPDM ASTM D 2000
9 Stem Thrust Washer(lower)	Bronze ASTM B 584 UNS C83600
10 Stem Thrust Washer(upper)	Stainless Steel ASTM A276 UNS S41000
11 Gland Seal O-Ring	EPDM ASTM D 2000
12 Stem Seal Bushing	Bronze ASTM B 584 UNS C83600
13 Stem Secondary O-Ring(2)	EPDM ASTM D 2000
14 Gland Flange	Ductile Iron ASTM A 536
15 Gland Flange Screw	Alloy Steel ASTM A 574M Zinc Plated
16 Stem Ring Wiper	EPDM ASTM D 2000
17 Square Operating Nut	Cast Iron ASTM A 126-B
17A Handwheel(Optional)	Ductile Iron ASTM A 536
18 Flat Washer	Carbon Steel Zinc Plated
19 Screw	Alloy Steel ASTM A 574M Zinc Plated





# Product data

OS & Y TYPE GATE VALVE

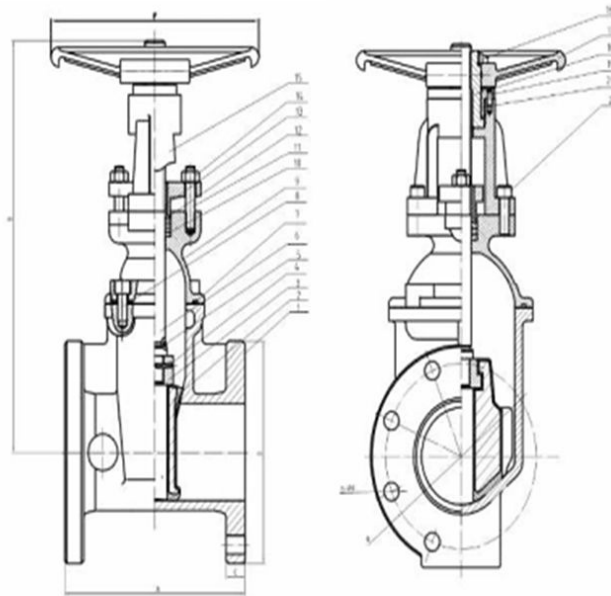
## OS & Y TYPE GATE VALVE

IMEN  
DATIS  
ASIA

# SAFEX FIRE

S907

S907(OS&Y) GATE VALVE,  
Flanged, UL / FM,  
Rated pressure 250PSI,  
Flange Conforms to ANSI B16.1 Class125,



S907 Flanged X Flanged



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



Freezing Weather Precaution – Subsequent to testing a piping system, valves should be in an open position to allow complete drainage.





# Product data

## OS & Y TYPE GATE VALVE

# OS & Y TYPE GATE VALVE

IMEN  
DATIS  
ASIA



S907 Flanged X Flanged



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



Size		F907 Dimension										Bolt Circle		Flange Holes	Turns To Open	Weight	
		A		B		C		D		F						Lbs	Kg
In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm				
2	50	7.0	178	10.0	255	0.63	16.0	6.0	152	7.9	200	4.75	121	4	6.5	44	20
2 1/2	65	7.5	190	11.3	287	0.69	17.5	7.0	178	7.9	200	5.50	140	4	8.8	46	21
3	80	8.0	203	12.6	321	0.75	19.0	7.5	191	10.2	260	6.00	152	4	10.6	50	23
4	100	9.0	229	13.5	344	0.94	24.0	9.0	229	10.2	260	7.50	191	8	13.0	75	34
6	150	10.5	267	17.4	441	1.00	25.4	11.0	279	14.8	375	9.50	241	8	15.6	134	61
8	200	11.5	292	20.8	529	1.13	28.6	13.5	343	14.8	375	11.75	298	8	17.3	225	102
10	250	13.0	330	24.2	614	1.19	30.2	16.0	406	15.7	400	14.25	362	12	21.4	328	149
12	300	14.0	356	27.6	700	1.25	31.8	19.0	483	19.7	500	17.00	432	12	25.3	487	221
14	350	15.0	381	34.3	870	1.38	35.0	21.0	533	19.7	500	18.74	476	12	30.0	676	307
16	400	16.0	406	34.3	870	1.46	37.0	23.5	597	19.7	500	21.24	539.5	16	34.0	881	400

No.	Name	Materials	Remarks
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Wedge	Ductile Iron+Rubber	ASTM A536 65-45-12+ASTM D2000 EPDM
3	Stem Trim	Bronze	ASTM B584 C83600
4	Retainer	Stainless Steel	ASTM A276 SS304
5	O-Ring	Rubber	ASTM D2000 EPDM
6	Stem	Al Bronze or SS	STM B 150 C61400/A276 SS304
7	Seal Gasket	Rubber	ASTM D2000 EPDM
8	Inside Hexagonal Bolt	Carbon Steel	ASTM A574
9	Bonnet	Ductile Iron	ASTM A536 65-45-12
10	Stuffing	Rubber	ASTM D2000 EPDM
11	Threaded Rod	Carbon Steel	ASTM A307
12	Stuffing Bushing	Bronze	ASTM B584 C83600
13	Stuffing Gland	Ductile Iron	ASTM A536 65-45-12
14	Nut	Carbon Steel	ASTM A574
15	Yoke	Ductile Iron	ASTM A536 65-45-12
16	Handwheel Nut	Carbon Steel	ASTM A194-2H
17	Handwheel	Ductile Iron	ASTM A536 65-45-12
18	Stem Nut	Bronze	ASTM B584 C83600
19	Nut Bolt	Carbon Steel	ASTM F912M
20	Gland	Ductile Iron	ASTM A536 65-45-12
21	Inside Hexagonal bolt	Carbon Steel	ASTM A574



# Product data

## BUTTERFLY VALVE

# BUTTERFLY VALVE

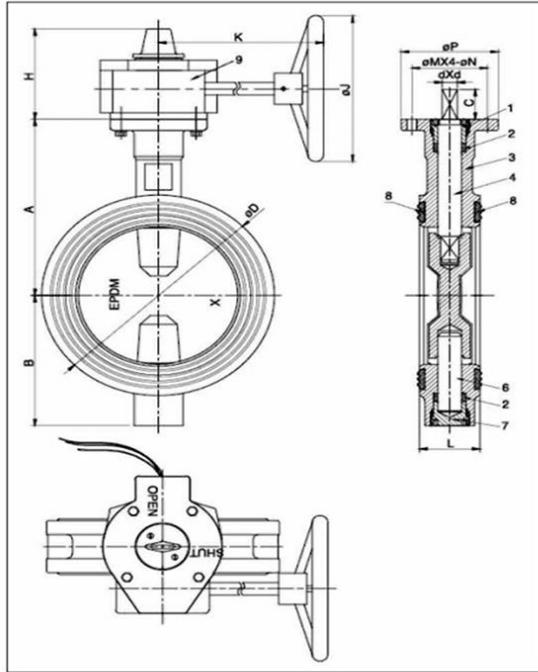
IMEN  
DATIS  
ASIA

**WAFER TYPE BUTTERFLY VALVE, UL, ULCLISTED, FM APPROVED**

**Model No.:SWD-371X**

**Working Pressure:300PSI(21Bars)**

**Working Temp:-20°C ~ 110°C(-4 °F ~ 230 °F)**



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



### Carried Standard

Design Standard	API609
Face to Face Standard	ASME B16.1
Top Standard	ISO 5211
Test Standard	API598

### SIZE CHART

ITEM SIZE	A	B	C	D	H	K	J	P	M	N	d	L
2-1/2"	125	95	32	112	111	218	152	90	70	9	10	44.2
3"	140	100	32	120	111	218	152	90	70	9	11	45.3
4"	160	100	32	165	111	218	152	90	70	9	14	52
5"	170	125	32	182	111	218	152	90	70	9	14	54.4
6"	190	140	32	216	111	218	200	90	70	9	16	55.8
8"	230	175	32	260	126	232	300	125	102	12	19	60.5
10"	260	200	45	320	126	232	300	125	102	12	22	66.5
12"	300	240	45	375	161	252	350	150	125	14	24	76.9

NO.	Name	Material
01	Upper Shaft Sealing Nut	WCB
02	Shaft Seal	EPDM
03	Body	DI
04	Upper Shaft	SS416
05	Disc	DI+EPDM
06	Lower Shaft	SS416
07	Lower Shaft Sealing Nut	WCB
08	End Face Seal	EPDM
09	Signal Gearbox	DI

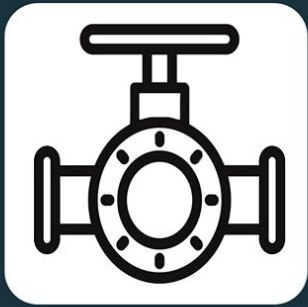


# Product data

BUTTERFLY VALVE

## BUTTERFLY VALVE

IMEN  
DATIS  
ASIA



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services

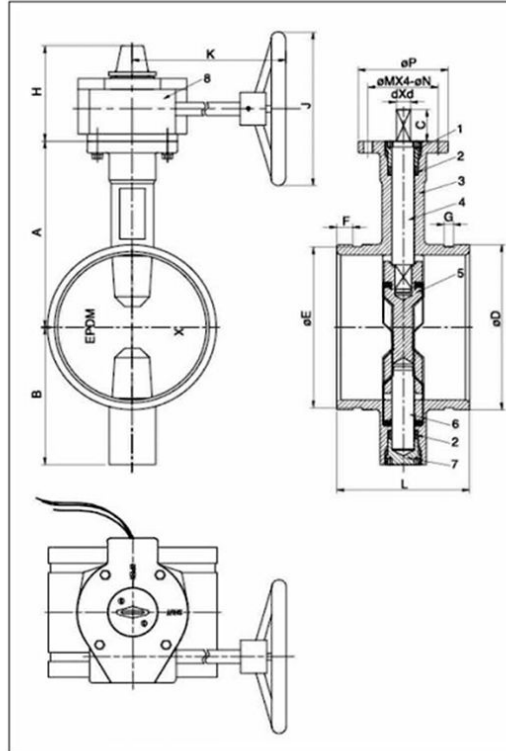


GROOVED TYPE BUTTERFLY VALVE, UL, UL LISTED, FM APPROVED

Model No.: SGD-381X

Working Pressure: 300PSI (21Bars)

Working Temp: -20°C ~ 110°C (-4 °F ~ 230 °F)



Carried Standard	
Design Standard	API609
Groove Standard	ASME B16.1
Top Standard	ISO5211
Test Standard	API598

### SIZE CHART

ITEM SIZE	A	B	C	D	E	F	G	H	K	J	P	M	N	d	L
2-1/2"	125	95	32	76.1	72.1	15.9	7.9	111	218	152	90	70	9	10	96.4
3"	140	100	32	88.9	84.9	15.9	7.9	111	218	152	90	70	9	11	97
4"	160	100	32	114.3	110.1	15.9	9.5	111	218	152	90	70	9	14	115.1
5"	170	125	32	114.3	137	15.9	9.5	111	218	152	90	70	9	14	132.4
6"	190	140	32	168.3	164	15.9	9.5	111	218	200	90	70	9	16	132.4
8"	230	175	32	219.1	214.6	19	11.1	126	232	300	125	102	12	19	147.4
10"	260	200	45	273	268.3	19	12.7	126	232	300	125	102	12	22	159
12"	300	240	45	324	318.3	19	12.7	161	252	350	150	125	14	24	165

NO.	Name	Material
01	Upper Shaft Sealing Nut	WCB
02	Shaft Seal	EPDM
03	Body	DI
04	Upper Shaft	SS416
05	Disc	DI+EPDM
06	Lower Shaft	SS416
07	Lower Shaft Sealing Nut	WCB
08	Signal Gearbox	DI



# Product data

## CHECK VALVE

# CHECK VALVE

IMEN  
DATIS  
ASIA



## EQUIPMENT SUPPLY SERVICES

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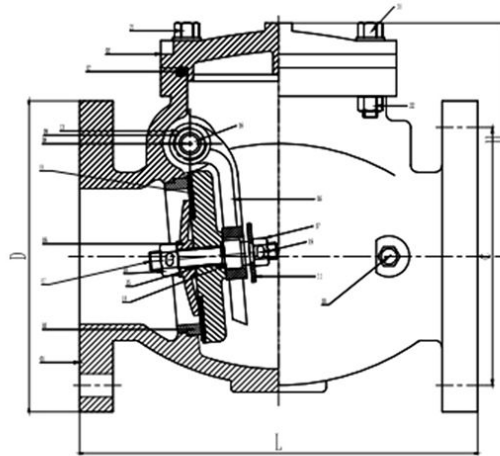
MH-XQH-300

### TECHNICAL SPECIFICATION

- Nominal Pressure : 300PSI
- Flange Standard : ASME/ANSI B16. 1 Class 125 OR ASME/ANSI B16.42 Class 150 or BS EN1092-2 PN16 OR GB/T9113.1
- Face To Face Standard : ASME B16. 10
- Electrostatic Spraying Both Inside and Outside the Body



Assembly Diagram



SIZE	2"	2.5"	3"	4"	5"	6"	8"	10"	12"
DN	DNSO	DN65	DN80	DN100	DN125	DN150	DN200	DN250	Dn300
L	203	216	241	292	330	356	495	622	698
D	152	178	191	229	254	279	343	406	483
H	142	148	163.5	172	237	233	301	348	419

No.	Name	Qty	Material/Standard
1	Body	1	DI, LASTM A536 65-45-12
2	Bonnet	1	DI, ASTM A536 65-45-12
3	Seat Ring	1	C95400, ASTM A148
4	Disc	1	DI, ASTM A536 65-45-12 + EPDM, ASTM 02000
5	Rocker arm	1	DI, ASTM A536 65-45-12
6	Baffle plate	1	C95400, ASTM A148
7	Middle stem	1	Ss304, ASTM A276
8	Stem	1	Ss304, ASTM A276
9	Bracket screw	2	SS304, ASTM A276
10	Plug	2	C95400, ASTM A148
11	Gasket	1	Ss304, ASTM A276
12	O-ring	1	EPDM, ASTM D2000
13	O-ring	2	EPDM, ASTM D2000
14	O-ting	1	EPDM, ASTM D2000
15	O-ring	1	EPDM, ASTM D2000
16	Bronze bush	2	Powder metallurgy
17	Nut	1	Ss304, ASTM A276
18	Nut	1	Ss304, ASTM A276
19	Cotter pin	2	Ss304, ASTM A276
20	Boit	N	1045, ASTM A29
21	Boit	M	1045, ASTM A29
22	Nut	N	1045, ASTM A29

# CHECK VALVE

IMEN  
DATIS  
ASIA



## EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



## Product data

### CHECK VALVE

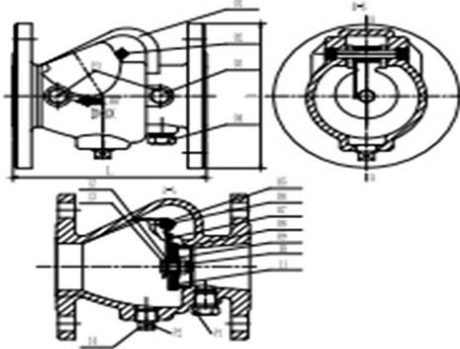
MH-QXH-350F

#### TECHNICAL SPECIFICATION

- Flange Standard : ASME/ANSI B16.1 Class 125 OR ASME/ANSI B16.42 Class 150 OR BS EN1092-2 Pn16
- Nominal Pressure : 350PSI, 300PSI, 250PSI, 200PSI, 175PSI OR PN16
- Existence of Tapped Holes P1, P2 and P3 Upon Clients' Request



#### Assembly Diagram



No.	Name	Qty	Material/Standard
1	Valve Body	1	DI, ASTM A536 Grade 65-45-12
2	Bolt	2	1045 ,ASTM A29
3	Plug	2	1045 ,ASTM A29
4	Plug	1	1045 ,ASTM A29
5	Spring	1	S.S.304, ASTM A276
6	Hinge Pin	1	S.S.304, ASTM A276 OR DI, ASTM A536 Grade 65-45-12
7	Clapper	1	S.S.304, ASTM A276
8	Seat	1	C95400, ASTM B148
9	Clamping Ring	1	S.S.304, ASTM A276
10	Locknut	1	S.S.304, ASTM A276
11	Facing Seal	1	EPDM, ASTM D2000
12	Gasket	1	EPDM, ASTM D2000
13	Bolt	1	S.S.304, ASTM A276
14	Plug	1	1045 ,ASTM A29

ITEM SIZE	L	D	P1						P2			P3		
			Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1/4-11	Rc1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
2"	169	152	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1/4-11	Rc1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
2.5"	181	178	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
3"	198	191	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
4"	214	229	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
5"	248	254	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
6"	270	280	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
8"	325	343	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
10"	457	406	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		
12"	535	483	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14		
			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT		



# Product data

## CHECK VALVE

### CHECK VALVE

IMEN  
DATIS  
ASIA

### MH-XQH-350FG-A & MH-XQH-350FG-B

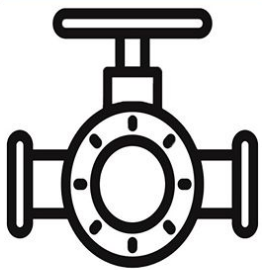
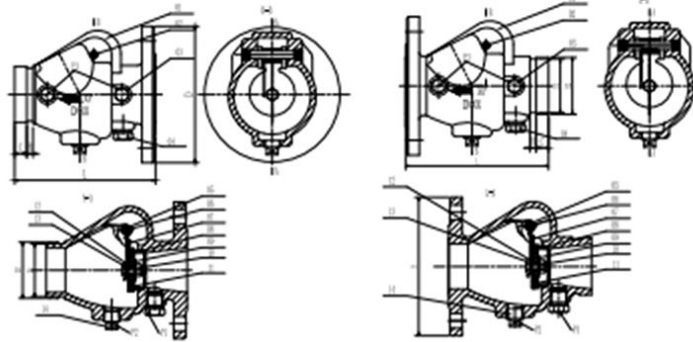
#### TECHNICAL SPECIFICATION

- Flange Standard : ASME/ANSI B16.1 Class 125 OR ASME/ANSI B16.42 Class 150 OR BS EN1092-2 PN16 OR GB/T9113.1;
- Groove Standard : METRIC OR AWWA C606;
- Nominal Pressure : 350PSI, 300PSI, 250PSI, 200PSI, 175PSI OR PN16.
- Existence of Tapped Holes P1, P2 and P3 Upon Clients' Request.



Assembly Diagram - A

Assembly Diagram - B



### EQUIPMENT SUPPLY SERVICES

Scan the small QR to view details and order services



No.	Name	Qty	Material/Standard
1	Valve Body	1	DI, ASTM A536 Grade 65-45-12
2	Bolt	2	1045 ,ASTM A29
3	Plug	2	1045 ,ASTM A29
4	Plug	1	1045 ,ASTM A29
5	Spring	1	S.S.304, ASTM A276
6	Hinge Pin	1	S.S.304, ASTM A276 OR DI, ASTM A536 Grade 65-45-12
7	Clapper	1	S.S.304, ASTM A276
8	Seat	1	C95400, ASTM B148
9	Clamping Ring	1	S.S.304, ASTM A276
10	Locknut	1	S.S.304, ASTM A276
11	Facing Seal	1	EPDM, ASTM D2000
12	Gasket	1	EPDM, ASTM D2000
13	Bolt	1	S.S.304, ASTM A276
14	Plug	1	1045 ,ASTM A29

ITEM SIZE	L	D	D1	D2	B	C	P1	P2				P3				
								Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19
2"	169	152	51.57	60.3	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
							1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
2.5"	181	178	69.09	73	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
			72.26	76.1			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
3"	198	191	84.94	88.9	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
							1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
4"	214	229	110.08	114.3	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
							1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
5"	248	254	135.48	139.7	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
			137.03	141.3			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
6"	270	280	160.78	165.1	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
			163.96	168.3			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
8"	325	343	211.6	216.3	11.13	19.05	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
			214.4	219.1			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
10"	457	406	268.3	273	12.7	19.05	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
							1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
12"	535	483	318.3	323.9	12.7	19.05	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
							1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT



# Product data

Detector Base

CHECK VALVE

IMEN  
DATIS  
ASIA

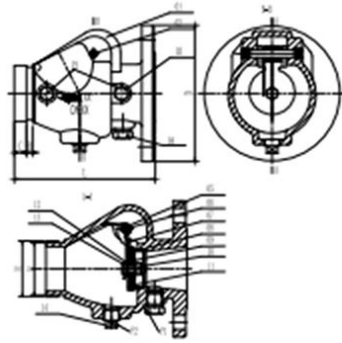
MH-XQH-350G

## TECHNICAL SPECIFICATION

- Groove Standard : Metric Ora'nwa C606
- Nominal Pressure : 350PSI, 300PSI, 250PSI, 200PSI, 175PSI or Pn16
- Existence Of Tapped Holes P1, P2 And P3 Upon Clients' Request



## Assembly Diagram



EQUIPMENT  
SUPPLY  
SERVICES

Scan the small QR to view details and order services



No.	Name	Qty	Material/Standard
1	Valve Body	1	DI,ASTM A536 Grade 65-45-12
2	Bolt	2	1045 ,ASTM A29
3	Plug	2	1045 ,ASTM A29
4	Plug	1	1045 ,ASTM A29
5	Spring	1	S.S.304, ASTM A276
6	Hinge Pin	1	S.S.304, ASTM A276 OR DI, ASTM A536 Grade 65-45-12
7	Clapper	1	S.S.304, ASTM A276
8	Seat	1	C95400, ASTM B148
9	Clamping Ring	1	S.S.304, ASTM A276
10	Locknut	1	S.S.304, ASTM A276
11	Facing Seal	1	EPDM, ASTM D2000
12	Gasket	1	EPDM, ASTM D2000
13	Bolt	1	S.S.304, ASTM A276
14	Plug	1	1045 ,ASTM A29

ITEM SIZE	L	D	D1	D2	B	C	P1				P2				P3		
							Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1/4-11	Rc1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
2"	169	152	51.57	60.3	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1/4-11	Rc1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			1/2-14NPT	1/2-14NPT			3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT			
2.5"	181	178	69.09	73	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			1/2-14NPT	1/2-14NPT			3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT			
3"	198	191	84.94	88.9	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			1/2-14NPT	1/2-14NPT			3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT			
4"	214	229	110.08	114.3	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			1/2-14NPT	1/2-14NPT			3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT			
5"	248	254	135.48	139.7	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			137.03	141.3			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT	
6"	270	280	160.78	165.1	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			163.96	168.3			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT	
8"	325	343	211.6	216.3	11.13	19.05	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			214.4	219.1			1/2-14NPT	1/2-14NPT	3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT	
10"	457	406	268.3	273	12.7	19.05	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			1/2-14NPT	1/2-14NPT			3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT			
12"	535	483	318.3	323.9	12.7	19.05	Rc1/2-14	Rc1/2-14	Rc3/4-14	Rc1-11	Rc1 1/4-11	Rc 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14	
			1/2-14NPT	1/2-14NPT			3/4-14NPT	1-11.5NPT	1 1/4-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT			



# SPRINKLERS

IMEN  
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## EQUIPMENT SUPPLY SERVICES

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## Product data

### SPRINKLERS

#### SF CONCEALED, PENDENT, UPRIGHT & SIDEWALL STANDARD RESPONSE AND QUICK RESPONSE SPRINKLERS

Safes Standard Response Spray Sprinklers are intended for use in the Sprinkler Systems designed in accordance with the standard installation rules recognized by the applicable listing or approval agency. They are available in Pendent, Upright, Horizontal Sidewall Styles.

Safes Quick Response Spray Sprinklers are designed with a 3mm glass-bulb to react quicker at the specified temperature. They are available in Pendent, Upright, Horizontal Sidewall Styles.

During a fire conditions, the thermal-sensitive liquid in the Glass Bulb expands, causing the bulb to shatter, releasing the button and spring seal assembly. Water flowing through the Sprinkler orifice strikes the Sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

Standard and Quick Responders are designed for use in a wild range of applications including office buildings, libraries, hotels, restaurants, banks, band shells, theaters, factories, and storehouses.

Horizontal Sidewall Sprinkler  
Model SF001 / SF002  
5/3mm Bulb Type, K-5.6



**Response:** Standard/Quick Coverage:  
Water discharge is directed primarily outward and downward in a quarter spherical pattern, a portion of the spray is also directed towards the backwall.

**Installation:**  
Designed for installation along a wall or the side of a beam just beneath a smooth ceiling (Ref.NFPA13)

**Orifice Size:** 1/2"/15mm

**Thread Size:** 1/2" Pipe thread

**Temp. Rating:**  
135°F/57°C, 155°F/68°C  
175°F/79°C, 200°F/93°C

**Maximum Service Pressure:**  
175 psig / 1.2MPa(12bar)

**Listings and Approvals:** UL

**Finishes:**  
Natural brass, chrome plate

Upright Sprinkler  
Model SF003 / SF004  
5/3mm Bulb Type, K-5.6



**Response:** Standard/Quick Coverage:  
Produce a hemispherical water distribution pattern below the deflector.

**Installation:**  
Upright installed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (Ref. NFPA 13 requirements).

**Orifice Size:** 1/2"/15mm

**Thread Size:** 1/2" Pipe thread

**Temp. Rating:**  
135°F/57°C, 155°F/68°C  
175°F/79°C, 200°F/93°C

**Maximum Service Pressure:**  
175 psig / 1.2MPa(12bar)

**Listings and Approvals:** UL

**Finishes:**  
Natural brass, chrome plate

Pendent Sprinkler  
Model SF005 / SF006  
5/3mm Bulb Type, K-5.6



**Response:** Standard/Quick Coverage:  
Produce a hemispherical water distribution pattern below the deflector.

**Installation:**  
Pendent installed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (Ref. NFPA 13 requirements).

**Orifice Size:** 1/2"/15mm

**Thread Size:** 1/2" Pipe thread

**Temp. Rating:**  
135°F/57°C, 155°F/68°C  
175°F/79°C, 200°F/93°C

**Maximum Service Pressure:**  
175 psig / 1.2MPa(12bar)

**Listings and Approvals:** UL

**Finishes:**  
Natural brass, chrome plate

Concealed Pendent Sprinkles Model SF007  
5mm Bulb Type, K-5.6



**Response:** Standard Coverage:  
Produce a hemispherical water distribution pattern below the deflector.

**Installation:**  
Pendent installed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (e.g. NFPA 13 requirements).

**Orifice Size:** 1/2"/15mm

**Thread Size:** 1/2" Pipe thread

**Temp. Rating:**  
135°F/57°C, 155°F/68°C  
175°F/79°C, 200°F/93°C

**Maximum Service Pressure:**  
175 psig / 1.2MPa(12bar)

**Listings and Approvals:** UL

**Finishes:**  
Cover plates are supplied chrome plated or with any color factory applied paint

Concealed Pendent Sprinkles Model SF008  
3mm Bulb Type, K-5.6



**Response:** Quick Coverage:  
Produce a hemispherical water distribution pattern below the deflector.

**Installation:**  
Pendent installed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (e.g. NFPA 13 requirements).

**Orifice Size:** 1/2"/15mm

**Thread Size:** 1/2" Pipe thread

**Temp. Rating:**  
135°F/57°C, 155°F/68°C  
175°F/79°C, 200°F/93°C

**Maximum Service Pressure:**  
175 psig / 1.2MPa(12bar)

**Listings and Approvals:** UL

**Finishes:**  
Cover plates are supplied chrome plated or with any color factory applied paint

FIRE BOX

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DATIS  
ASIA



EQUIPMENT  
SUPPLY  
SERVICES

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details and order services



# FIRE BOX





## Product data

### FIRE BOX

## FIRE BOX

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#### SYNTHETIC HOSE REEL AND FIRE BOX

Hose Reel cabinet model SF4000, SF5000 series characterised for its high quality and performance in fighting fire, can be used effectively in factories, residential building, etc.

Hose reel is made of 1 mm steel sheet and pressed out. The outer edge of the reel is rolled over to give a safe handling edge on the outer rims. The reel is mounted on swinging arm.

Hose length is 30 meter long with 1.5"Ø or 2.5"Ø. Landing Valve 1.5" for SF4000 and 2.5" for SF5000

Model	Width	Height	Depth
SF4000	65 cm	65 cm	15 cm
SF5000	65 cm	65 cm	19 cm



#### SYNTHETIC HOSE REEL AND EXTINGUISHER FIRE BOX

Hose Reel and Extinguisher cabinet 1.5" size model SF4200 and 2.5" size model SF5200 are characterized for its high quality and performance in fighting fire and can be used effectively in factories, residential buildings, schools, etc.

Hose reel is made of 1 mm steel sheet and pressed out. The outer edge of the reel is rolled over to give a safe handling edge on the outer rims. The reel is mounted on swinging arm.

Model	Width	Height	Depth
SF4200	90 cm	65 cm	18 cm
SF4400	85 cm	65 cm	18 cm
SF4600	85 cm	90 cm	22 cm
SF5200	90 cm	65 cm	19 cm
SF5400	85 cm	65 cm	19 cm
SF5600	85 cm	90 cm	22 cm



EQUIPMENT  
SUPPLY  
SERVICES

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## Product data

### FIRE BOX

## FIRE BOX

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### FOAM / WATER FIRE BOX

Foam or Water cabinet model SF9000 characterized for its high performance for attacking class A, B fire within seconds. Suitable for gas stations, petro-chemical plants, industrial premises, warehouse and in any areas, requires protection from class A, B fires.

Cabinets are manufactured from steel or stainless steel, with thickness of 1 mm to 2 mm. Cabinets are with all around folded edges without any sharp edges. The roof is slop type

Electrostatic powder painted and oven baked to 200°C for appearance and protection from rust.

Model	Width	Height	Depth
SF9000	700 mm	1120 mm Slopped Roof	300 mm



### CUSTOMIZED FIRE BOX

Fire Cabinets model SF900 and SF900A are made with steel or stainless steel, with thickness of 1mm to 2mm.

Hose Reel Drums pressed on hydraulic press to form ribs for strength and durability to avoid twisting while handling. Outer edges of hose reels are rolled over for safe handling and aesthetic appearance. Cabinet door handles are of stainless steel and turn handle chrome plated.

Electrostatic powder painted and oven baked to 200°C for appearance and protection from rust.

Cabinets can be surface mounted, recessed or semi-recessed. Cabinets of stainless steel also available with hairline or mirror finish.





## Product data

### FIRE BOX

## FIRE BOX

IMEN  
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### FIRE HOSE RACK AND FIRE BOX

Fire Hose Rack Cabinet model SFR150, SFR200 series are manufactured from steel or stainless steel, with thickness of 1 mm to 2 mm. Cabinet door handles are of stainless steel and turn handle chrome plated.

Electrostatic powder painted and oven baked to 200°C for appearance and protection from rust.

Cabinets can be surface mounted, recessed or semi-recessed. Cabinets of stainless steel also available with hairline or mirror finish.

Model	Width	Height	Depth
SFR150	650	850	160
SFR150S	650	850	160
SFR200E	750	850	180
SFR200ES	750	850	180
SFR200EV	750	940	200
SFR200EVS	750	940	200



### FIRE HOSE REEL AND FIRE BOX

Fire Hose Reel Cabinet model SF300 and SF600 series are manufactured from steel or stainless steel, with thickness of 1 mm to 2 mm. Outer edges of hose reels are rolled over for safe handling and aesthetic appearance. Cabinet door handles are of stainless steel and turn handle chrome plated.

Hose Reel Drums pressed on hydraulic press to form ribs for strength and durability to avoid twisting while handling.

Electrostatic powder painted and oven baked to 200°C for appearance and protection from rust.

Cabinets can be surface mounted, recessed or semi-recessed. Cabinets of stainless steel also available with hairline or mirror finish.

Model	Width	Height	Depth
SF300	800	800	230
SF300S	800	800	250
SF300A	800	800	250
SF300AS	800	800	250
SF305/20	700	700	200
SF305/30	700	700	250
SF305A	700	700	250
SF305AS	700	700	250
SF600	1050	800	230
SF600S	1050	800	230
SF600A	1050	800	250
SF600AS	1050	800	250



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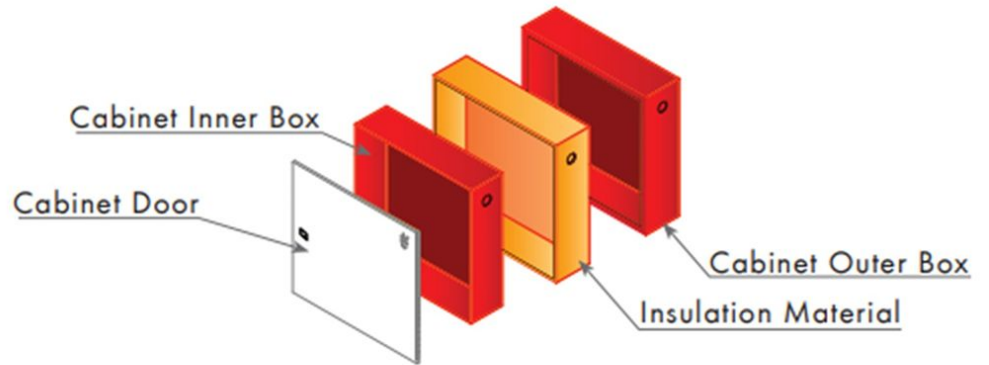
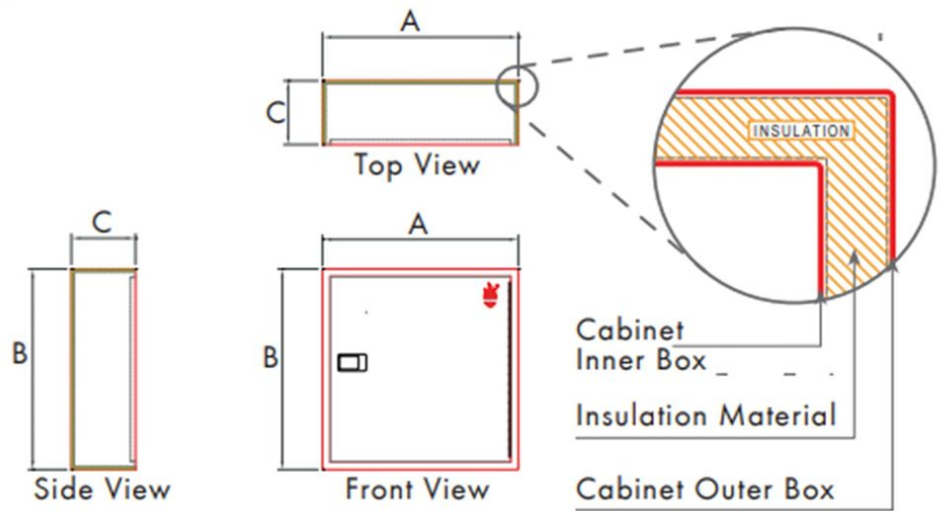




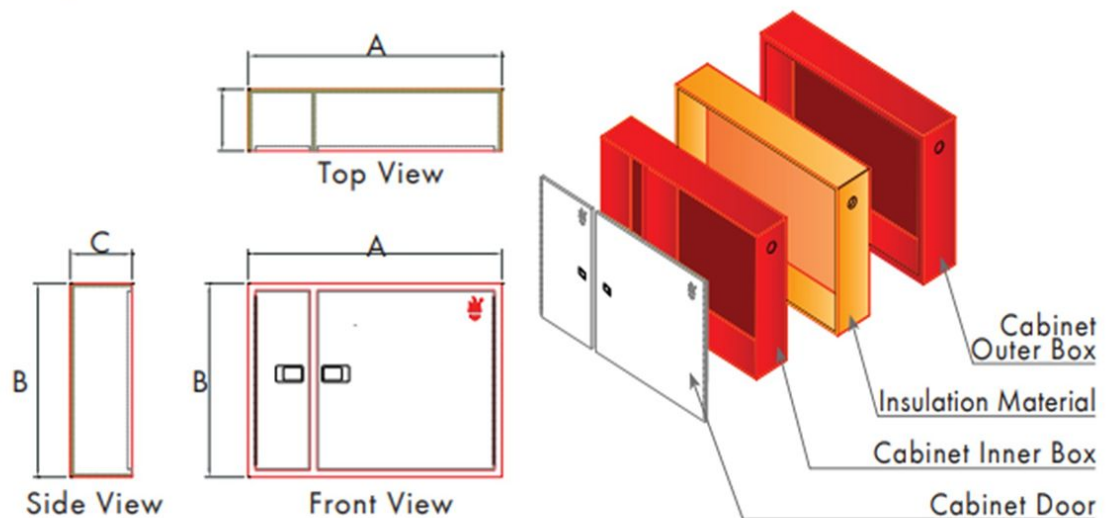
FIRE BOX

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Single Door Cabinets



Horizontal Double Door Cabinets



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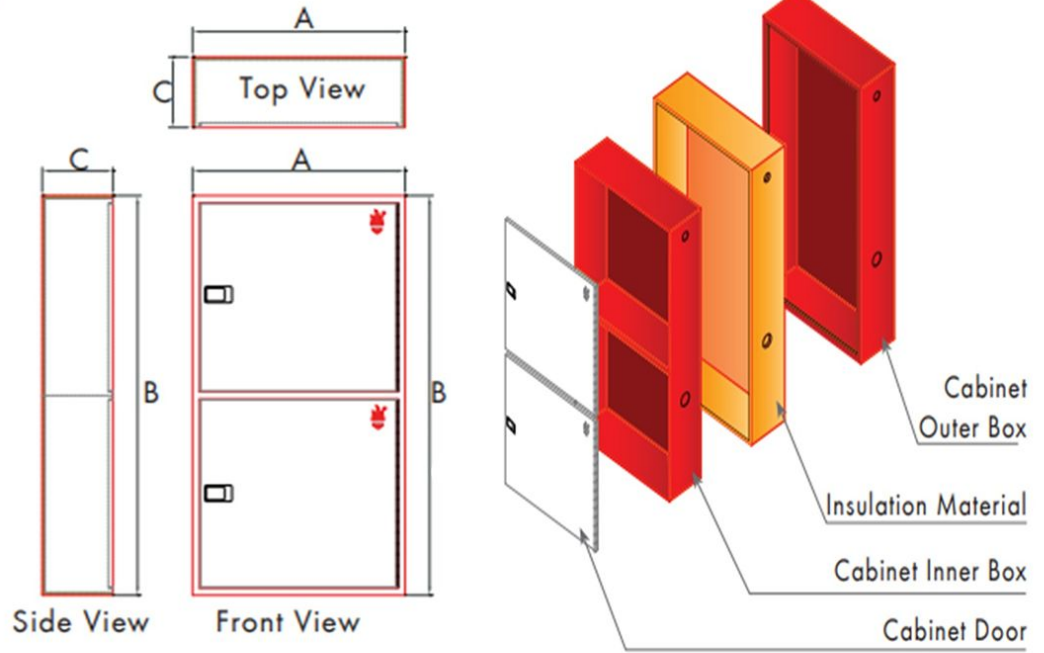
# Product data

## FIRE BOX

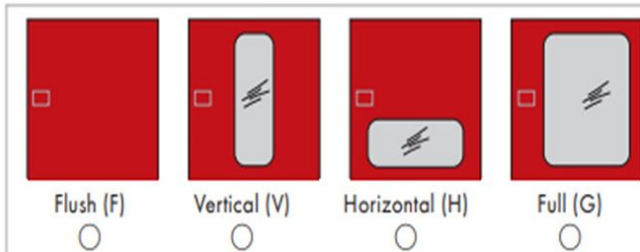
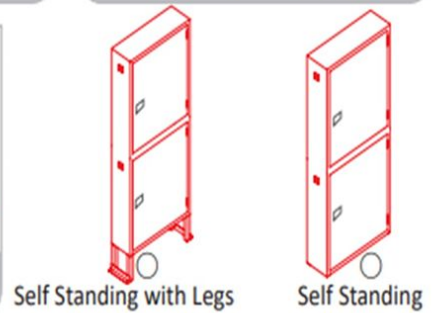
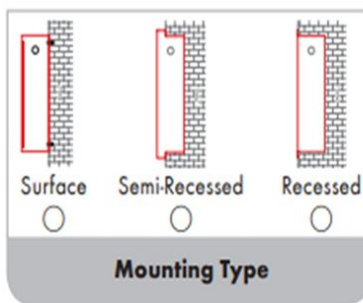
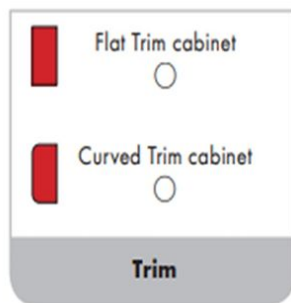
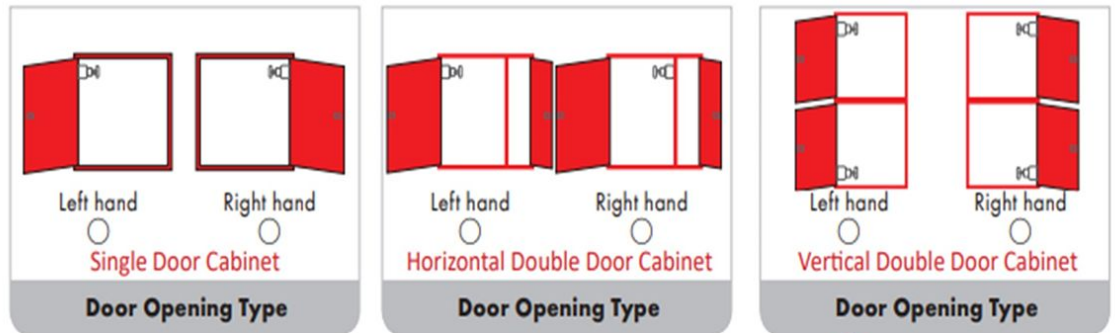
### FIRE BOX

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### Vertical Double Door Cabinets



### Fire Rated Cabinets



Fire Rated Cabinet have been manufactured with range of styles:

- Insulated Flush Metal Door
- Hollow Flush Metal Door
- Glass Door Types

#### Door Selection



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## FOAM MONITOR

### IMEN DATIS ASIA



## EQUIPMENT SUPPLY SERVICES

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### HVLR FOAM MONITOR VARIABLE FLOW TYPE

Monitors are generally used for protection of flammable liquid storage tank, loading areas, dykes and marine & many other industrial applications. Monitor allows application of water / foam at the right location from distance. Firetech monitors are made of Stainless-Steel body. The monitor has spray angle of 140° and it can revolve horizontally 360° & from +90° to -45° vertically.

- Variable Flow: 1000-1500-2000 GPM
- Size: 150 NB (6") flanged inlet
- Stainless Steel waterway
- Gear for horizontal and vertical movement
  - 360° continuous horizontal rotation
  - +90°, - 45°- vertical Rotation



### WATER CUM FOAM MONITOR

Foam monitor function same as water monitor. It could be used to discharge foam as well as water. Foam monitors are usually used where high amount of fire hazards can occurs.

Firetech manufactures UL Certified water cum foam monitor up to flow rate of 3500LPM with maximum working pressure of 12 BAR. They are available in stainless steel (SS 304 & SS 316).

- Capacity: 750 GPM
- Size: 100 (4") flanged inlet
- Stainless Steel waterway
- Gear for horizontal and vertical movement
  - 360° - Continuous horizontal rotation
  - +90°, -45° - Vertical Rotation
- Horizontal Range with water @ 30 Deg. 60 Mtr







## Product data

### WATER MONITOR

FOAM  
MONITOR

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#### HVLR FOAM MONITOR VARIABLE FLOW TYPE

Water monitor are located on the line proportioners which are used to spray water at various direction to extinguish fire. Due to its unique design, it has a capability to rotate in multiple directions.

Firetech manufactures ISI Certified Water monitor up to flow rate of 3500 LPM and maximum working pressure of 12 BAR. Water monitor are available in stainless steel and carbon steel with copper or aluminium alloy nozzles.

- Fixed Flow
- Available Flow: 1750 / 2580 / 3500 LPM
- Barrel Diameter Size: 63 NB, 80 NB & 100 NB
- Inlet Flange Size: 100 NB
- Barrel Construction: Carbon Steel / SS 304 / SS 316
- Nozzle Construction: Aluminium / SS 304 / SS 316



#### REMOTE OPERATED WATER CUM FOAM MONITOR

High Volume Remote Operated Monitors from Firetech are designed to be mounted at elevated positions for fixed applications. These monitors can be programmable for oscillation, as well be overridden to be operated remotely through the use of switches on a control panel. Apart manual operation can also be accomplished through the hand-wheels.

Firetech Remote operated are ideal discharge devises of water and foam solutions for fighting fire especially when reach of Operator or Firemen is limited in flammable or toxic chemical vapour and other hazards to protect refineries, chemical processing areas, ship loading docks, etc.

Electric Components can be with Ex-d (Flame Proof / Explosion Proof) Certifications like ATEX, PESO etc for Applications in Hazardous Area. Monitors with Remote Control Mechanism can be stand-alone or Multiple Monitors can be controlled with single control panel.

- Flow: 750, 1000, 1500, 2000 GPM
- Stainless Steel waterway
- Motor operated horizontal and vertical movement
  - 360° continuous horizontal rotation
  - +90°, - 45°- vertical Rotation
- Electric Components – ATEX, PESO etc



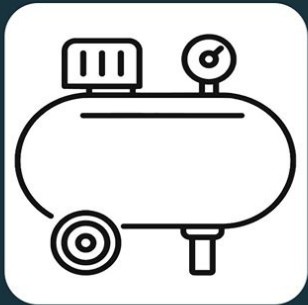


## Product data

### BLADER TANK

## BLADER TANK

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## EQUIPMENT SUPPLY SERVICES

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### HORIZONTAL AND VERTICAL BLADDER TANKS – PRE-PIPED

FIRETECH Bladder Type Foam Proportioning Unit (Bladder Tank) is provided for accurate foam proportioning of the foam concentrate with the fire-water over a wide range of flow.

FIRETECH Horizontal and Vertical Bladder Tanks consist of the following main components i.e. Foam Vessel, Foam Bladder, Water Piping, Foam Piping, Vent & Drain Valves and Level Indicator.

During operation the water is charged into the bladder tank between the vessel wall and the bladder to the inlet water pressure. Bladders transfers this water pressure to the foam concentrate stored inside the bladder, this causes pressurization of the foam concentrate.

Pressurized foam concentrate is delivered to the foam concentrate inlet of the foam proportioner. A foam concentrate orifice is provided for accurate mixing of the foam concentrate into the fire-water.

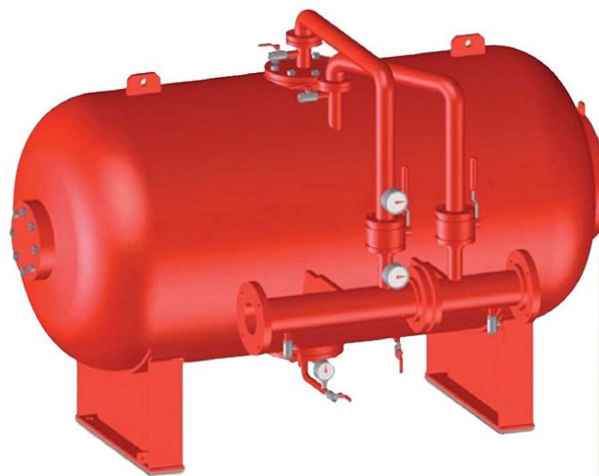
The metering pressure drop is created in the foam proportioner which causes the foam concentrate to flow into the fire water stream.

Bladder tanks with horizontal layout are referred as horizontal bladder tanks. Firetech manufactures UL Certified Horizontal Bladder tank from range of 200L to 15000L capacity.

Bladder tanks are also available in vertical layout. They functions same as Horizontal Bladder Tank only difference. In vertical bladder tanks, water enters the tank from left side and forced out foam from right side or vice versa. Vertical bladder tanks are preferred in case of space constraint.

Firetech manufactures UL Certified Vertical Bladder Tank from range of 200L to 15000L capacity.

- Capacity: 53 Gal. to 4000 Gal. (200 L to 15,000 L)
- Foam Proportioners: 50 NB to 200 NB
- Wide Flow Range: 75 LPM to 30,000 LPM
- Foam Vessel: Carbon Steel / Stainless Steel
- Bladder: Nylon Reinforced Nitrile (BUNA-N)
- Designed as per ASME Sec. VIII Div1
- Rated Pressure: 12 BAR (175 psi)





ENGINE FIRE  
PUMP  
CONTROLLERS

IMEN  
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ASIA

## DIESEL ENGINE FIRE PUMP CONTROLLERS MODEL GPD



	Tornatech Inc Laval, Canada	Tornatech Europe SA Wavre, Belgium	Tornatech FZE Dubai, UAE
Standard Enclosure Rating	NEMA 2	IP55	NEMA 2
CE	Optional	Standard	Optional
SEISMIC COMPLIANT	Optional	Optional	Optional



EQUIPMENT  
SUPPLY  
SERVICES

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### Standard Features

- ViZiTouch V2 operator interface
- Pressure and event recorder
- Battery voltage and amperage display
- Run Test push button
- HAND - OFF - AUTO selector switch
- Manual crank pushbuttons (2)
- Stop pushbutton
- Remote start / deluge valve start provision
- Pressure transducer and run test solenoid valve externally mounted
- Gland plate
- Audible alarm
- Alarm contacts for remote indication
- Weekly exercise programmable time clock
- Crank cycle
- Programmable automatic shutdown (minimum run timer)
- Programmable sequential start timer (delay start timer)



# Product data

## Engine Fire Pump Controllers

# ENGINE FIRE PUMP CONTROLLERS

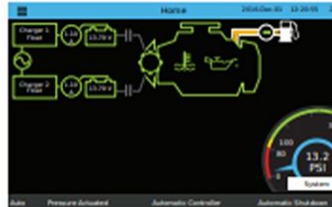
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## DIESEL ENGINE FIRE PUMP CONTROLLERS MODEL GPD



### HOME SCREEN

Diesel Fire Pump Controller



### ON-SCREEN MENU

- Home
- Alarm
- Configuration
- History
- Service
- Manual
- Languages

### SETTINGS



### EVENTS



### HISTORY/STATISTICS



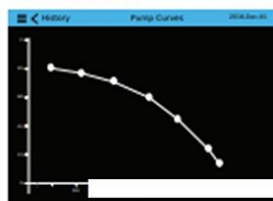
### SERVICE



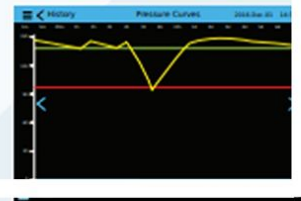
### VIZITOUCH V2 MAJOR FEATURES INCLUDE:

- Touch screen operation with 7" color display and intuitive graphics
- Multi-language
- Upgradable software
- Password protected

### PUMP CURVES



### PRESSURE CURVES



## EQUIPMENT SUPPLY SERVICES

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### Shipping Weight & Dimensions

Starting Voltage	WALL MOUNT		FLOOR MOUNT	
	Approx. Dimensions in inches (mm)	Approx. Weight in Lbs (kg)	Approx. Dimensions in inches (mm)	Approx. Weight in Lbs (kg)
12 V.DC	27½" h x 27½" w x 9" d (700 x 600 x 228)	70 ( 32 )	47½" h x 27½" w x 9" d (1208 x 600 x 228)	95 ( 43 )
24 V.DC				



# Product data

Engine Fire Pump Controllers

ENGINE FIRE PUMP CONTROLLERS

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## DIESEL ENGINE FIRE PUMP CONTROLLERS MODEL GPD



EQUIPMENT SUPPLY SERVICES

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- 1. Alarm bell
- 2. Externally mounted pressure transducer and run test solenoid valve with protective cover
- 3. Key lock
- 4. ViZiTouch V2 operator interface
- 5. Exterior USB Port  
(Interior USB port also supplied)
- 6. HAND-OFF-AUTO selector switch
- 7. Remote alarm contacts with removable terminals
- 8. Gland Plate
- 9. Automotive type engine connections
- 10. Battery chargers



## Product data

Electric Fire Pump Controllers

ELECTRIC FIRE PUMP CONTROLLERS

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## ELECTRIC ENGINE FIRE PUMP CONTROLLERS MODEL GPX



	Tornatech Inc Laval, Canada	Tornatech Europe SA Wavre, Belgium	Tornatech FZE Dubai, UAE
Standard Enclosure Rating	NEMA 2	IP55	NEMA 2
CE	Optional	Standard	Optional
SEISMIC COMPLIANT	Optional	Optional	Optional



EQUIPMENT  
SUPPLY  
SERVICES

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### Standard Features

- ViZiTouch V2 operator interface
- Pressure and event recorder
- Voltage and amperage display
- Single operator for both isolating switch and circuit breaker
- Surge arrestor
- Lifting lugs
- Run test push button
- Available with automatic power transfer switch
- Emergency start handle
- Start and stop pushbuttons
- Locked rotor protector
- Phase reversal indication
- Remote start / deluge valve start provision
- Pressure transducer and run test solenoid valve externally mounted
- Gland plate
- Audible alarm
- Alarm contacts for remote indication
- Available with full voltage and reduced voltage starting

### Starting Methods

- Model GPA - Across-the-line
- Model GPY - Wye-Delta Open
- Model GPP - Partwinding
- Model GPR - Autotransformer
- Model GPW - Wye-Delta Closed
- Model GPS - Soft Start Soft Stop



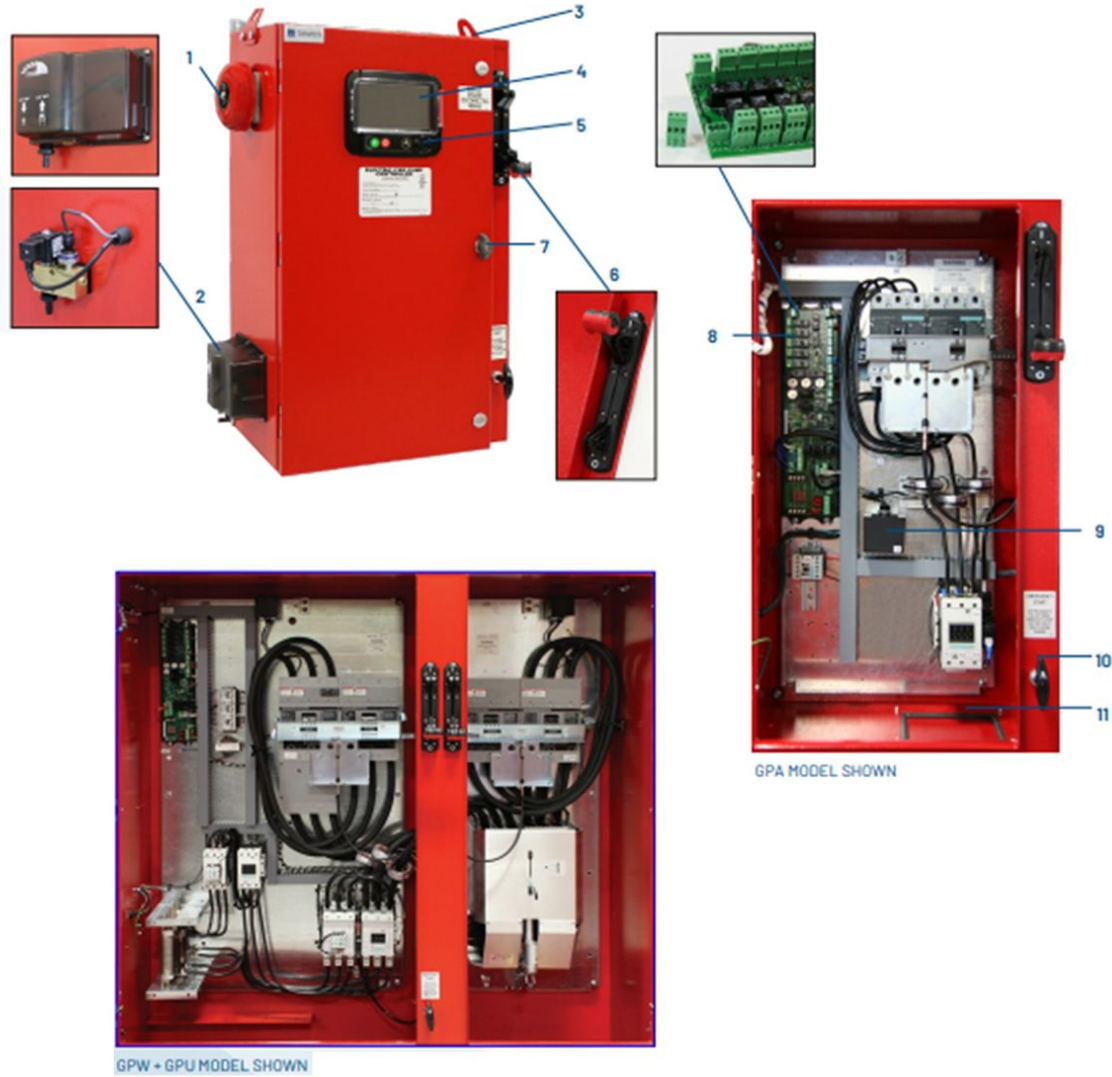
# Product data

Electric Fire Pump Controllers

ELECTRIC FIRE PUMP CONTROLLERS

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## ELECTRIC ENGINE FIRE PUMP CONTROLLERS MODEL GPX



EQUIPMENT SUPPLY SERVICES

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- 1. Alarm bell
- 2. Externally mounted pressure transducer and run test solenoid valve with protective cover
- 3. Lifting Lugs
- 4. ViZiTouch V2 operator interface
- 5. Exterior USB Port (Interior USB port also supplied)
- 6. Custom designed Isolation switch / Circuit breaker operator handle
- 7. Key lock
- 8. Remote alarm contacts with removable terminals
- 9. Surge arrestor
- 10. Custom designed emergency start mechanism with integrated limit switch
- 11. Gland plate
- 12. Automatic power transfer switch



# Product data

## Electric Fire Pump Controllers

# ELECTRIC FIRE PUMP CONTROLLERS

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# VIZITOUCH V2 OPERATOR INTERFACE

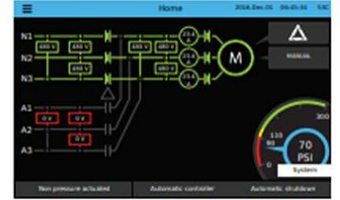


### HOME SCREEN

Electric Fire Pump Controller



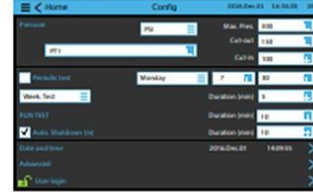
Electric Fire Pump Controller with Automatic Transfer Switch



### ON-SCREEN MENU

- Home
- Alarm
- Configuration
- History
- Service
- Manual
- Languages

### SETTINGS



### EVENTS



# EQUIPMENT SUPPLY SERVICES

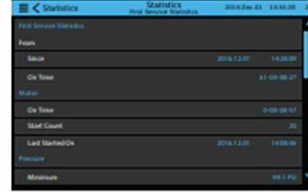
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### VIZITOUCH V2 MAJOR FEATURES INCLUDE:

- Touch screen operation with 7" color display and intuitive graphics
- Multi-language
- Upgradable software
- Password protected

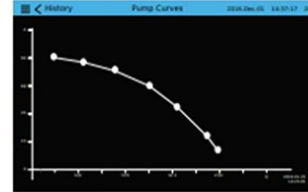
### HISTORY/STATISTICS



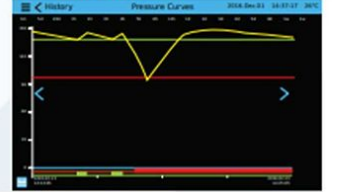
### SERVICE



### PUMP CURVES



### PRESSURE CURVES







## Product data

Engine Fire Pump Controllers

ENGINE FIRE  
PUMP  
CONTROLLERS

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### GPX SERIES / VOLTAGE / HP / SHORT CIRCUIT WITHSTAND RATING / SEISMIC CERTIFICATION

Model	Voltage	HP	Short Circuit Withstand Rating	Seismic Certified
GPA GPA+GPU	200V - 208V	5-150	100kA	Yes
		200	50kA	No
	220V - 240V	5-200	100kA	Yes
		250	50kA	No
GPP GPP+GPU	380V - 416V	5-300	100kA	Yes
		350-450	50kA	No
GPY GPY+GPU	440V - 480V	5-400	100kA	Yes
		450		No
		500	50kA	No
	575V - 600V	5-500	50kA	Yes
GPR GPR+GPU	200V - 208V	5-150	100kA	Yes
		200	50kA	No
	220V - 240V	5-200	100kA	Yes
		250	50kA	No
GPW GPW+GPU	380V - 416V	5-300	100kA	Yes
		350-450	50kA	No
	440V - 480V	5-400	100kA	Yes
		450		No
575V - 600V	5-500	50kA	Yes	

Model	Voltage	HP	Short Circuit Withstand Rating	Seismic Certified
GPS GPS+GPU	200V - 208V	5-100	100kA	Yes
		150		No
		200	50kA	No
	220V - 240V	5-150	100kA	Yes
		200		No
		250	50kA	No
	380V - 416V	5-250	100kA	Yes
		300		No
		350-450	50kA	No
	440V - 480V	5-300	100kA	Yes
		350		No
		400		
450				
500		50kA	Yes	
575V - 600V	5-400		No	
	450			
	500			



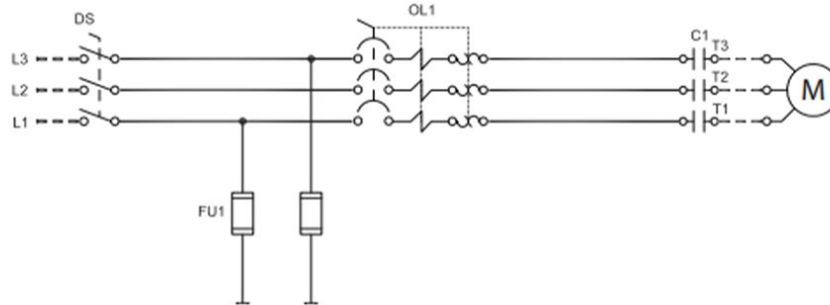
# Product data

Engine Fire Jockey Controllers

ELECTRIC  
JOCKEY PUMP  
CONTROLLERS

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## ELECTRIC JP3 JOCKEY PUMP CONTROLLER



N.Y.C.  
APPROVED



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Listing	Underwriters Laboratory (UL)	UL508A - Industrial Pump Controllers	
	New York City	Accepted for use in the City of New York by the Department of Buildings	
	<b>Optional</b>		
	<input type="checkbox"/> CE Mark	Various EN, IEC & CEE directives and standards	
Enclosure	<b>Protection Rating</b>		
	<input type="checkbox"/> <b>Standard: NEMA 2</b>		
	<b>Optional</b>		
	<input type="checkbox"/> NEMA 12	<input type="checkbox"/> NEMA 4X-304 sst painted	
	<input type="checkbox"/> NEMA 3	<input type="checkbox"/> NEMA 4X-304 sst brushed finish	
	<input type="checkbox"/> NEMA 3R	<input type="checkbox"/> NEMA 4X-316 sst painted	
	<input type="checkbox"/> NEMA 4	<input type="checkbox"/> NEMA 4X-316 sst brushed finish	
	<b>Accessories</b>		<b>Paint Specifications</b>
	• Wall mounting lugs ( x4)		• Red RAL3002 • Powder coating • Glossy textured finish
Fuseless Motor Starter	<ul style="list-style-type: none"> <li>• Main disconnect – padlockable – rotary type handle – door interlocked</li> <li>• Thermo-magnetic motor protector</li> <li>• Contactor</li> </ul>		
Control Circuit	• <b>24V.AC</b>		
IPD+ Operator Interface	<ul style="list-style-type: none"> <li>• Solid state controls</li> <li>• All adjustments on door front</li> <li>• Navigation pushbuttons</li> </ul>		
Pressure Sensing	<ul style="list-style-type: none"> <li>• Pressure transducer for fresh water application 316 stainless steel construction</li> <li>• Rated for 0-600psi working pressure</li> <li>• Pressure sensing line connection 1/2" brass Male NPT</li> </ul>		
Visual Indications	<ul style="list-style-type: none"> <li>• Manual motor start/run LED</li> <li>• Automatic motor start/run LED</li> <li>• Motor overload</li> <li>• Pressure reading <ul style="list-style-type: none"> <li>• Start pressure</li> <li>• Stop pressure</li> <li>• System pressure</li> </ul> </li> <li>• System pressure diagnostic LED's <ul style="list-style-type: none"> <li>• Green: system pressure at or above stop pressure</li> <li>• Yellow: system pressure between start and stop pressure</li> <li>• Red: system pressure at or below start pressure</li> </ul> </li> <li>• AUTO mode</li> <li>• OFF mode</li> </ul>		
Timers	<ul style="list-style-type: none"> <li>• Minimum run timer (off delay)</li> <li>• Delay start timer (on delay)</li> <li>• Visual countdown</li> </ul>		
Counters	<ul style="list-style-type: none"> <li>• Pump start counter</li> <li>• Elapsed timer meter (hours / non-resettable)</li> </ul>		
Operators	<ul style="list-style-type: none"> <li>• OFF-AUTO pushbutton</li> <li>• Start and Stop pushbutton</li> </ul>		
Operation	Automatic Start	Start on pressure drop	
	Manual Start	Start pushbutton	
	Stopping	Stop pushbutton	
	Timers	Field adjustable & visual countdown	<ul style="list-style-type: none"> <li>• Minimum run timer (off delay)</li> <li>• Delay start timer (on delay)</li> </ul>



JOCKEY PUMP CONTROLLERS MODEL JP3



EQUIPMENT SUPPLY SERVICES

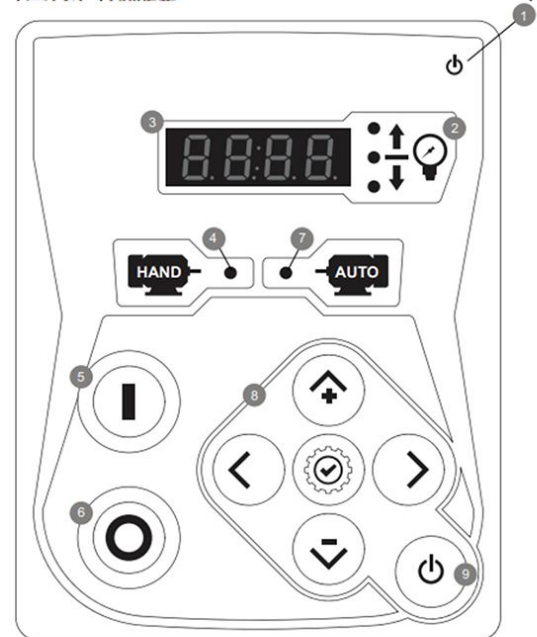
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<input type="checkbox"/> A4	Elapsed time meter (time totalizer)
<input type="checkbox"/> A5	Motor run alarm contact
<input type="checkbox"/> A6	Loss of power alarm contact
<input type="checkbox"/> A7	Overload or short circuit alarm contact
<input type="checkbox"/> D11D	Pressure transducer 0-600psi with 1/2" MNPT 316 stainless steel bushing
<input type="checkbox"/> D14	Export packing for 1 controller
<input type="checkbox"/> D13A	Externally mounted wetted parts
<input type="checkbox"/> D14	Export packing for 1 controller
<input type="checkbox"/> D18	Audible alarm
<input type="checkbox"/> D19	Anti-condensation heater and thermostat
<input type="checkbox"/> D20	Anti-condensation heater and humidistat
<input type="checkbox"/> D21	Tropicalization
<input type="checkbox"/> D22	Phase reversal / failure pilot light and alarm contact
<input type="checkbox"/> D23	Controller power healthy pilot light and alarm contact
<input type="checkbox"/> D24	Pump failure via current sensing relay with pilot light and dry alarm contact
<input type="checkbox"/> D25	Low zone pump control function
<input type="checkbox"/> D26	Mid zone pump control function
<input type="checkbox"/> D27	High zone pump control function
<input type="checkbox"/> D28	Selector switch in auto alarm contacts
<input type="checkbox"/> D29	Selector switch in off alarm contacts
<input type="checkbox"/> D30	Motor heater circuit
<input type="checkbox"/> D32	Service entrance rated - 100kA short circuit withstand rating: • 120V/1ph (0.5hp max.) • 240V/1ph (1hp max.) • 200V-208V - 60hz (2hp max.) • 220V-240V - 60hz (3hp max.) • 380V-416V - 50hz - 60hz (5hp max.) • 440V-480V - 60hz (5hp max.)
<input type="checkbox"/> D33	Service entrance rated - 65kA short circuit withstand rating: • 120V/1ph (0.5hp max.) • 240V/1ph (1hp max.) • 200V-208V - 60hz (3hp-15hp max.) • 220V-240V - 60hz (515hp max.) • 380V-416V - 50hz - 60hz (7.5hp - 40hp max.) • 440V-480V - 60hz (7.5hp-40hp max.)
<input type="checkbox"/> D34	Service entrance rated - 42kA short circuit withstand rating: • 600V - 60hz (7.5hp max.)

<input type="checkbox"/> D35	Seismic Certification compliant to CBC 2019, IBC 2018 rigid base/wall mounted only
<input type="checkbox"/> D36	Special Seismic Certification compliant to OSHPD rigid base/wall mounted only

<input type="checkbox"/> L01	Other language and English (bilingual)
<input type="checkbox"/> L02	French
<input type="checkbox"/> L03	Spanish
<input type="checkbox"/> L04	German
<input type="checkbox"/> L05	Italian
<input type="checkbox"/> L06	Polish
<input type="checkbox"/> L07	Romanian
<input type="checkbox"/> L08	Hungarian
<input type="checkbox"/> L09	Slovak
<input type="checkbox"/> L10	Croatian
<input type="checkbox"/> L11	Czech
<input type="checkbox"/> L12	Portuguese
<input type="checkbox"/> L13	Dutch
<input type="checkbox"/> L14	Russian
<input type="checkbox"/> L15	Turkish
<input type="checkbox"/> L16	Swedish
<input type="checkbox"/> L17	Bulgarian
<input type="checkbox"/> L18	Thai
<input type="checkbox"/> L19	Indonesian
<input type="checkbox"/> L20	Slovenian
<input type="checkbox"/> L21	Danish
<input type="checkbox"/> L22	Greek
<input type="checkbox"/> L23	Arabic
<input type="checkbox"/> L24	Hebrew
<input type="checkbox"/> L25	Chinese



- 1 - Power on LED
- 2 - System status LED
- 3 - Digital display
- 4 - Hand start LED
- 5 - START pushbutton
- 6 - STOP pushbutton
- 7 - Auto start LED
- 8 - Navigation keypad
- 9 - ON - OFF pushbutton



# Product data

## Jockey Pump Controllers

### JOCKEY PUMP CONTROLLERS



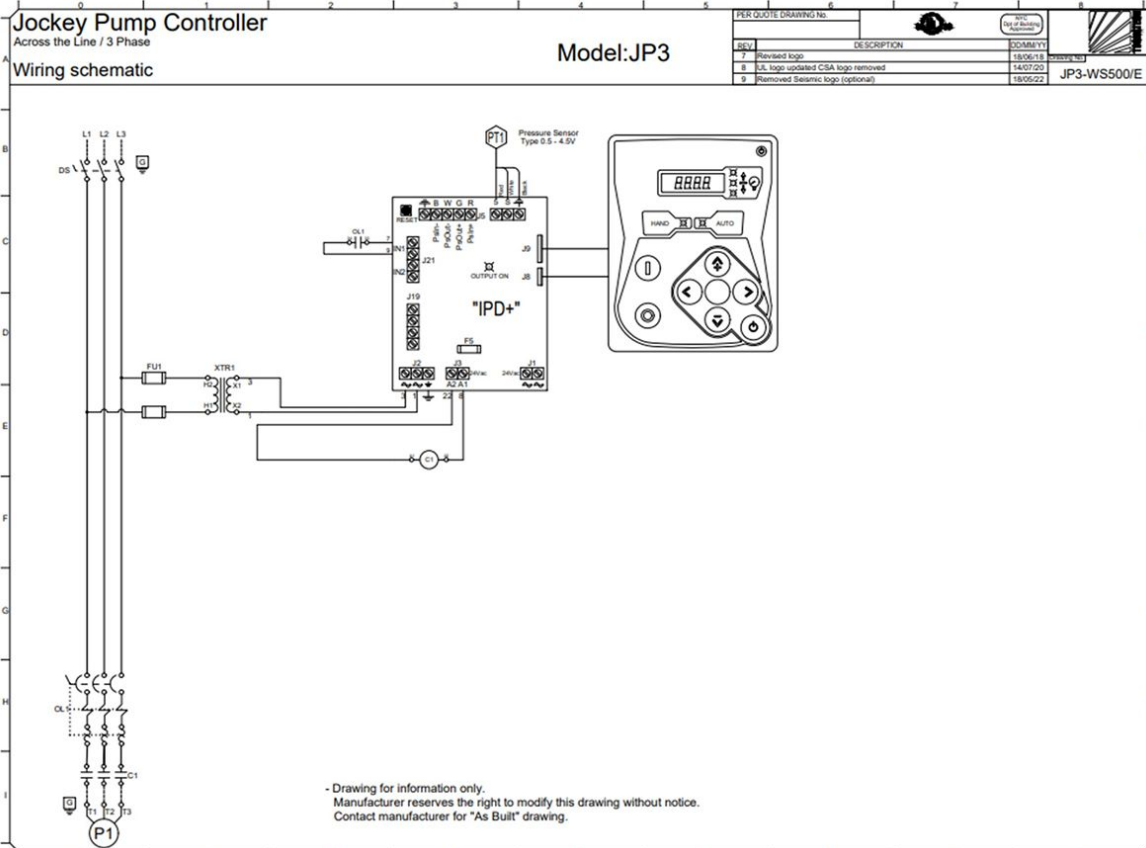
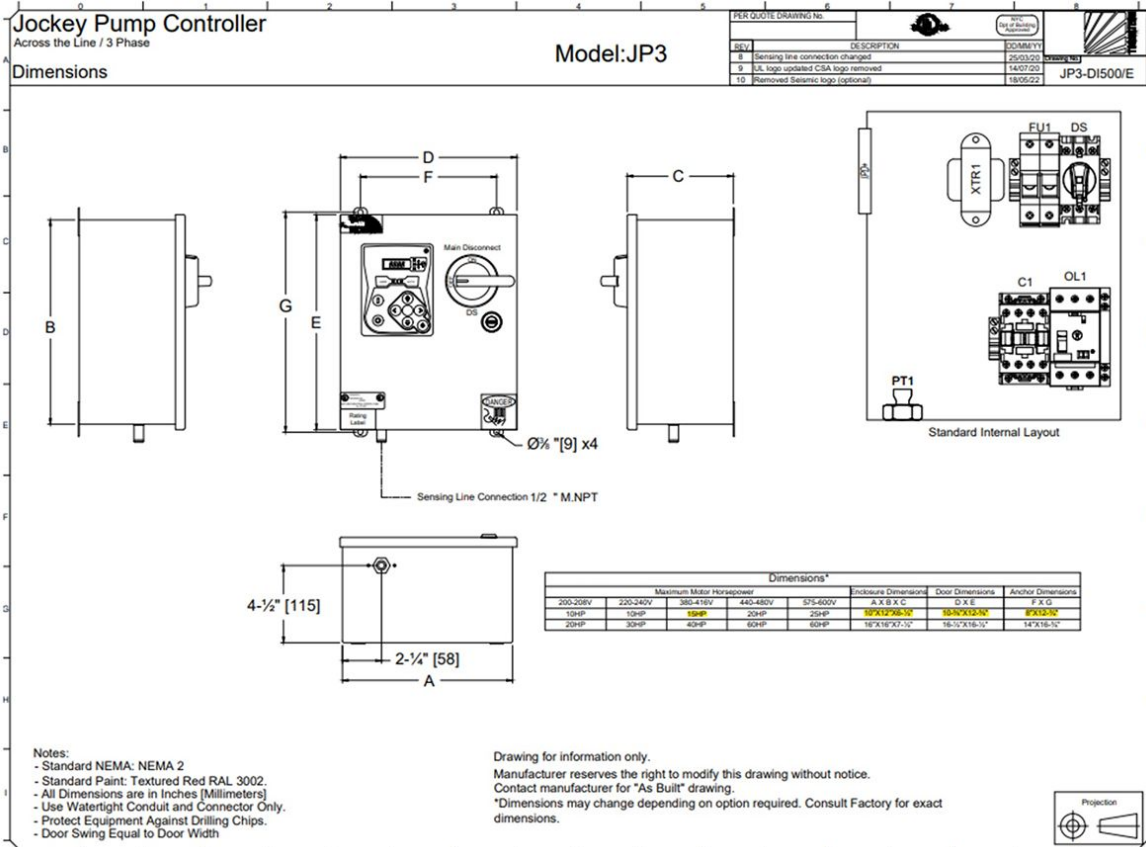
# MODEL JP3 JOCKEY PUMP CONTROLLER

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MODEL JP3 JOCKEY PUMP CONTROLLER

Jockey Pump Controller  
Across the Line / 3 Phase

Model:JP3

Line and Motor Terminal Size

REV	DESCRIPTION	DATE	BY
7	Revised logo	18/06/18	
8	LL logo updated CISA logo removed	14/01/20	
9	Removed Selenec logo (optional)	18/05/22	

JP3-TD500/E

Power Connections and Motor Connections

Line Terminals (L1,L2,L3,GND)							
Maximum Motor Horsepower					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
10HP	10HP	20HP	20HP	25HP	#14 AWG - #6 AWG	2 Nm	#14 AWG - #2 AWG
20HP	30HP	40HP	60HP	60HP	#12 AWG - #1 AWG	6 Nm	#6 AWG - #2 AWG

Motor Terminals (T1,T2,T3,GND)							
Maximum Motor Horsepower					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
5HP	7.5HP	10HP	15HP	20HP	#14 AWG - #10 AWG	1.8 Nm	#14 AWG - #2 AWG
10HP	10HP	15HP	20HP	25HP	#14 AWG - #6 AWG	2.5 Nm	#12 AWG - #2 AWG
15HP	20HP	30HP	50HP	50HP	#10 AWG - #3 AWG	5 Nm	#12 AWG - #2 AWG
20HP	30HP	40HP	60HP	60HP	#10 AWG - #2 AWG	11.3 Nm	#12 AWG - #2 AWG



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تهران- بلوار آیت اله  
کاشانی- خیابان بهنام  
پلاک ۲۶- واحد ۱۴

شرکت ایمن داتیس آسیا با اتکا بر دانش روز، فعالیت مستمر و با همکاری نیروهای فوق تخصص، هم اینک در زمره شرکت های برتر بخش خصوصی در زمینه صنعت ایمنی و آتش نشانی شناخته می شود. این مجموعه همواره در تلاش است که به صورت مستمر و پویا در گسترش زیرساخت های ایمنی و آتش نشانی کشور عزیزمان ایران ایفای نقش نموده و در راستای تحقق اهدافی همچون توسعه و صنعتی سازی فناوری های نوین گام هایی بزرگ بردارد.

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