FIRE PUMP CATALOGUE 2024

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JACK PUMP

YOU ARE IN THE FRONT LINE

JACK PUMP

NFPA® MEMBER

UL® LISTED

VISION:
Jack Pump envisions itself as a trailblazing icon of excellence and expertise, not just in the Jack Pump region but globally, setting the pace as an industry leader. Our relentless commitment to excellence drives us to deliver unparalleled quality through comprehensive, professional services, & top-tier products. We aspire to be a shining symbol of expertise, unwavering quality, and distinctive service, catering to discerning clients worldwide.

MISSION:
At Jack Pump, our mission is deeply rooted in the relentless pursuit of excellence, expertise, and quality. We dedicate ourselves to providing an all-encompassing platform of exceptional services and top-quality products, exceeding industry standards. Our commitment extends beyond business, actively nurturing the personal and professional growth of our team. We are driven to contribute significantly to the collective human knowledge, fostering cultural, social, and economic progress. Additionally, we are devoted to safeguarding the rich Arab and Islamic heritage, while advancing firefighting capabilities and enhancing life security in the Jack Pump region.
This commitment solidifies our standing as unwavering leaders in the field.

APPLICATIONS

Clean Home Civil Industry

CERTIFICATIONS

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SUB VENDOR LIST

EQUIPMENT	BRAND	MAKE	DESCRIPTION
END SUCTION FIRE PUMP	MENA	MENA MECHANICAL INDUSTRIES, UAE	RANGE: 50 - 1000 US GPM upto 230 PSI
DIESEL DRIVER	BLACK STALION Enriching Lives / Kirloskar	BLACK STALION UL LISTED & FM APPROVED KIRLOSKAR UL LISTED & FM APPROVED	RANGE: 15 - 390 HP from 1400 - 3000 RPM RANGE: 62 - 330 HP from 1760 - 3000 RPM
FIRE PUMP MOTOR	weg marathon Motors A Regal Brand REGAL **TECHTOP MOTOR**	WEG UL LISTED MARATHON UL LISTED TECHTOP UL LISTED	RANGE: 11kW - 350kW Type: ODP & TEFC, NEMA2 RANGE: 15HP- 400HP Type: ODP & TEFC, NEMA2 RANGE: 15HP- 350HP Type: ODP & TEFC, NEMA2
FIRE PUMP CONTROLLERS	TORNATECH Fire Pump Controller	TORNATECH, INC UL LISTED & FM APPROVED	RANGE: 11kW to 350KW Type: Diesel, Electric, Jockey
AIR RELIEF VALVE	VAL-MATIC OR FWIC Valves *As Per Availability	VAL-MATIC, USA UL LISTED & FM APPROVED FWIC FM APPROVED	RANGE: 1/2 inch - 2 inch UP TO 300 PSI RANGE: 1/2 inch - 1 inch UP TO 300 PSI
FLOWMETER	GERAND ENGINEERING	GERAND, USA FM APPROVED	RANGE: 2-1/2 Inch to 8 Inch UP TO 300 PSI

END-SUCTION FIRE PUMP

Technical Specifcations	
Suction fange	1.5-6 Inch
Discharge fange	2.5-4 inch
Flow	50-1000 GPM
Discharge pressure	84-230PSI

Material Specifcations	
Casing	Ductile Iron
Impeller	Bronze or stainless steel
Shaft	ATSM420
Sealing	Gland packing
Bearing Housing	Rolling bearing
Suction/discharge fanges	ANSI

Pump Naming

VES 80-250

- Nominal impeller diameter (mm)
- Discharge fange DN (mm)
- Pump type

VESD150-80-250

- Nominal impeller diameter (mm)
- Discharge fange DN (mm)
- Pump Type

Driver Options

Electrical Diesel

Application Areas

Hydrant Sprinkler

Overflow Foam

Risk Class

Ordinary High

Product Standard

UL 448, NFPA

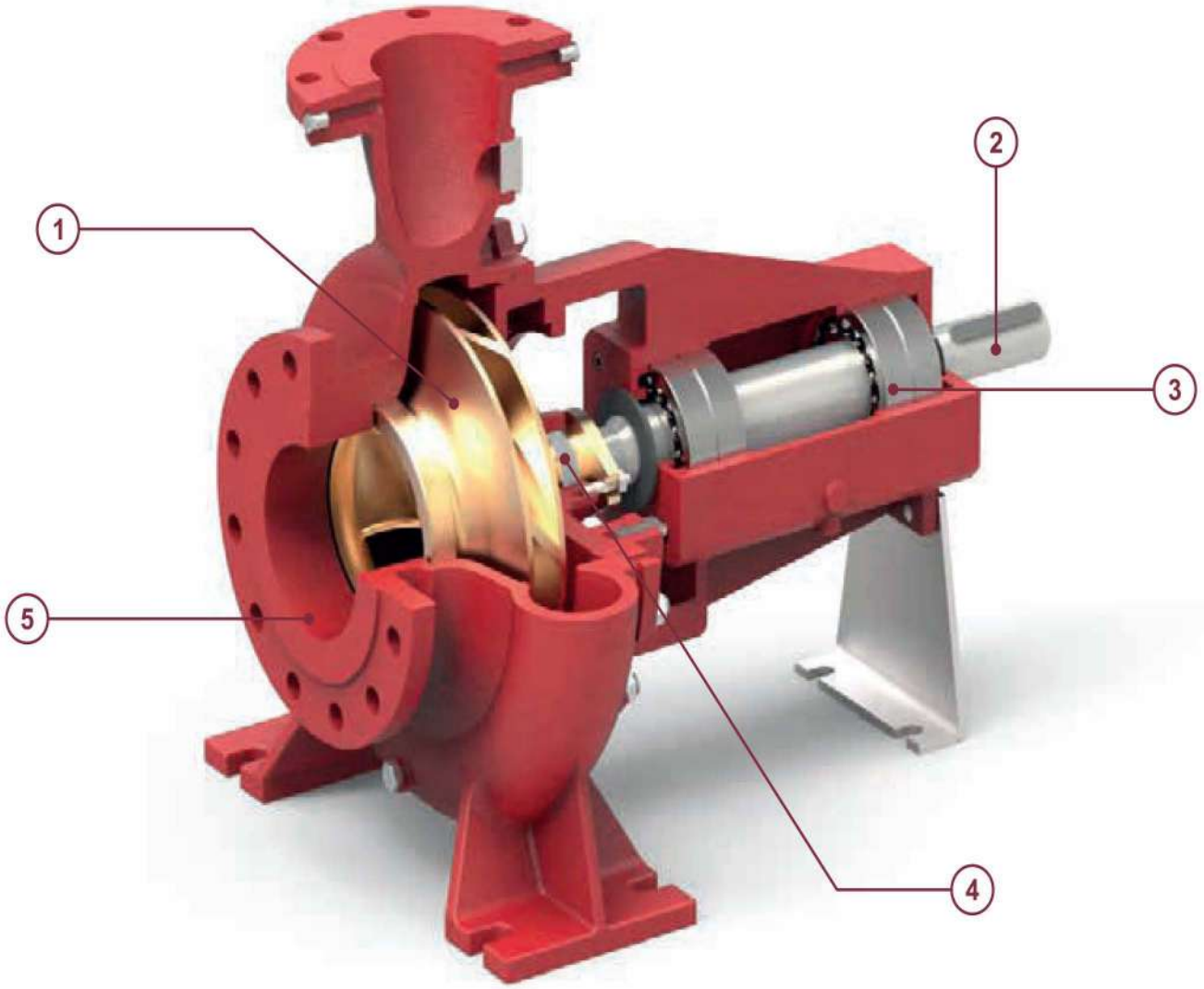
Product Approvals

UL LISTED

Flange Standards

Pump Installing Dimensions are confirming to ISO2858 Standard, and Tested according to with UL 448 -2013

General Pump Features



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 available upon request.
- 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

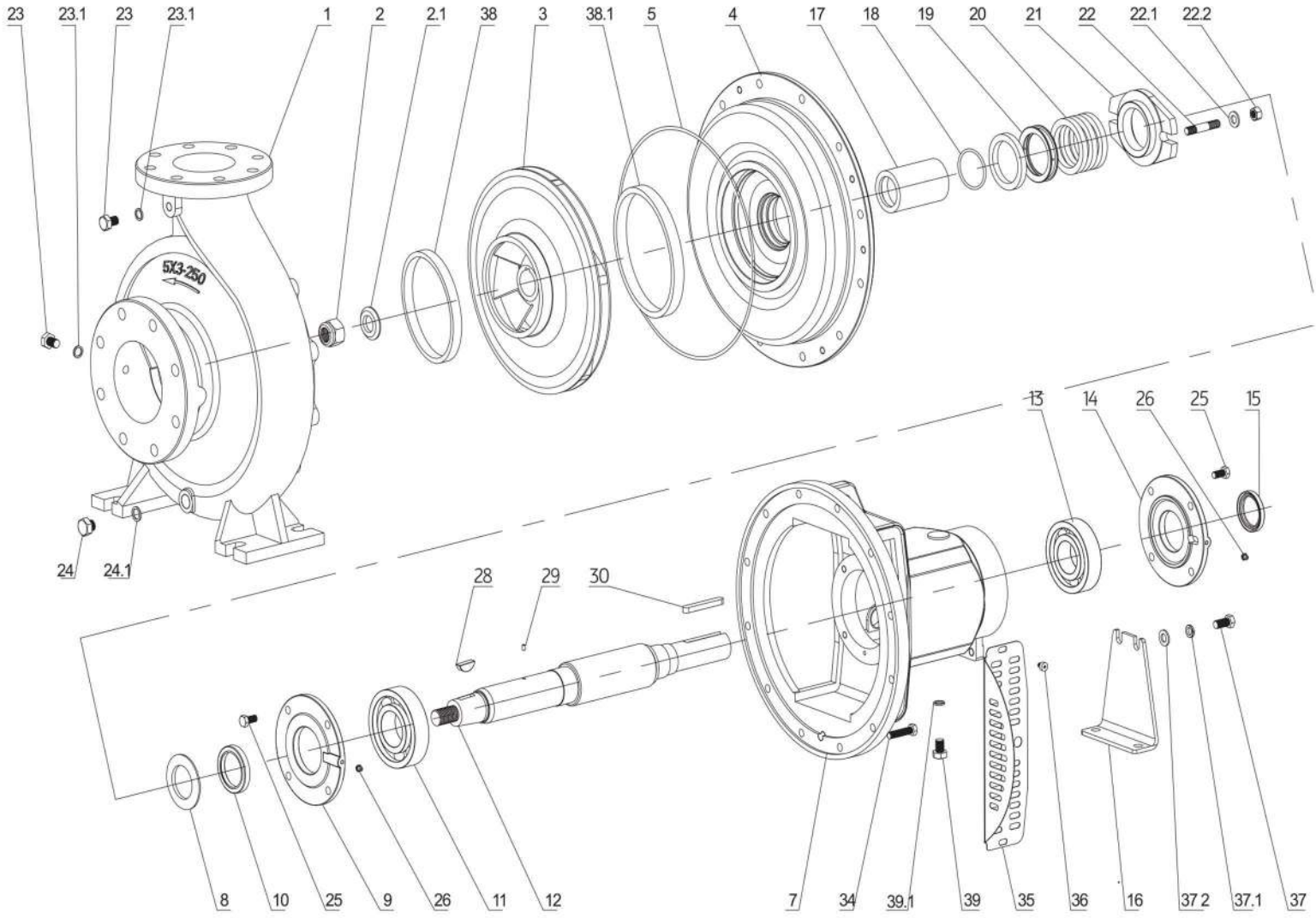
- Asbestos - free, soft packed stuffing boxes.

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.

END-SUCTION FIRE PUMP

VES Series - Exploded View & Part list



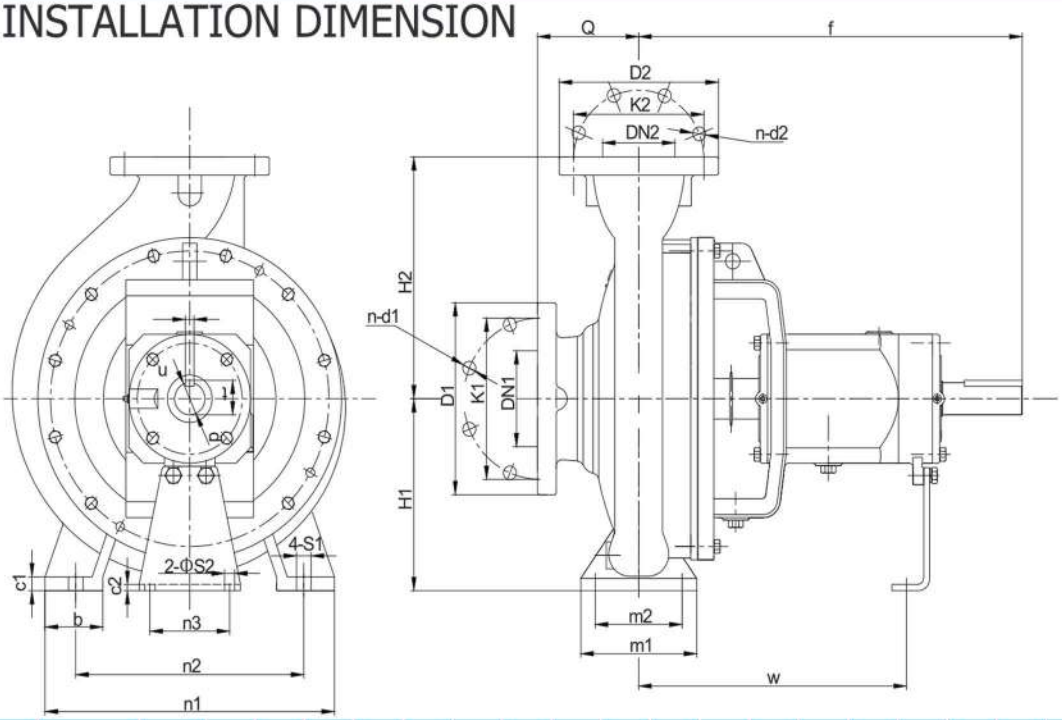
Code	Part Name
1	Casing
2	Impeller Nut
2.1	Lock washer for impeller
3	Impeller
4	Gland Cover
5	O-ring
7	Bearing Housing
8	Rubber Slinger
9	NDE Bearing Cover
10	NDE Oil Seal
11	NDE Bearing
12	Shaft
13	DE Bearing
14	DE Bearing Cover
15	DE Oil Seal

Code	Part Name
16	Support Foot
17	Packing Sleeve
18	O-ring
19	Gland Packing
20	Packing Seal Cage
21	Gland Cover
22	Stud Bolt
22.1	Flat Washer
22.2	Screw Nut
23	Plug
23.1	Plug Spacer
24	Plug
24.1	Plug Spacer
25	Screw Bolt

Code	Part Name
26	Oil Cup M6
28	key
29	pin
30	key
34	Screw Bolt
35	Protective cover
36	Bolt
37	Screw Bolt
37.1	Elastic Washer
37.2	Flat Washer
38	Front-Wearring
38.1	Back-Wearring
39	Plug
39.1	Plug Spacer

END-SUCTION FIRE PUMP

VES SERIES INSTALLATION DIMENSION



Model	DN1		DN2		Impeller Dia.	Shaft No.	a	f	h1	h2	b	m1	m2	n1	n2	n3	c1	c2	w	S1	S2	d	t	u	l	Weight (kg)
	inch	mm	inch	mm																						
40-250	2.5"	65	1.5"	40	250	2	100	500	180	225	65	125	95	320	250	110	14	6	370	M12	M12	32	35	10	80	71
50-250	3"	80	2"	50	250	2	125	500	180	225	65	125	95	320	250	110	15	6	370	M12	M12	32	35	10	80	76
65-250	4"	100	2.5"	65	250	2	125	500	200	250	80	160	120	360	280	110	16	6	370	M16	M12	32	35	10	80	84
80-250	5"	125	3"	80	250	2	125	500	225	280	80	160	120	400	315	110	18	6	370	M16	M12	32	35	10	80	88
80-315	5"	125	3"	80	315	3	125	530	250	315	80	160	120	400	315	110	20	8	370	M16	M12	42	45	12	110	130
100-315	5"	125	4"	100	315	3	140	530	250	315	80	160	120	400	315	110	19	8	370	M16	M12	42	45	12	110	138
100-250	5"	125	4"	100	315	3	140	530	250	315	80	160	120	400	315	110	19	8	370	M16	M12	42	45	12	110	138
100-200	5"	125	4"	100	315	3	140	530	250	315	80	160	120	400	315	110	19	8	370	M16	M12	42	45	12	110	138
80-200	5"	125	3"	80	315	3	125	530	250	315	80	160	120	400	315	110	20	8	370	M16	M12	42	45	12	110	130
150-100-200	6"	150	4"	100	200	3	125	530	250	315	80	160	120	400	315	110	20	8	370	M16	M12	42	45	12	110	130
150-100-315	6"	150	4"	100	315	3	125	530	250	315	80	160	120	400	315	110	20	8	370	M16	M12	42	45	12	110	1

Flange standard：ASTM B16.42-1998 Class150						Flange standard：ASTM B16.42-1998 Class300			
DN1/DN2	1.5"	2"	2.5"	3"	4"	5"	3"	4"	5"
D1/D2	127	152.4	177.8	190.5	228.6	254	209.6	254	279.4
K1/K2	98.6	120.7	139.7	152.4	190.5	215.9	168.1	200.2	234.9
n-d1/ n-d2	4-φ15.7	4-φ19.1	4-φ19.1	4-φ19.1	8-φ19.1	8-φ22.4	8-φ22.4	8-φ22.4	8-φ22.4

FIRE PUMP SKIDS

Jack Pump is an established well reputed manufacturer of Premium Custom Engine Driven Centrifugal Fire Pump Skids. We specialized in designing and developing packages in compliance to NFPA 20 requirements with Listed & Approved Drivers.

Jack ofers listed Centrifugal Fire Pump Skids that meet every fre protection need.

- Driven by Listed & Approved Diesel Engines or Electric Motors.
- Well aligned and Coupled for Direct Operation.
- Skid Packages are Pre-Tested and Inspected thoroughly before release to customers.
- One piece base plate with Anchor Bolt holes.
- Engineered, coated, hot rolled mild steel to resist corrosion and abrasion.
- Heavy Fabricated C-Channel Structure constructed to provide proper alignment of Pump with Diesel Engine or Pump with Motor.
- Compact skid Design with Small Foot-Print for Retroft.
- High standard of Quality in material Construction fnish and Workmanship.

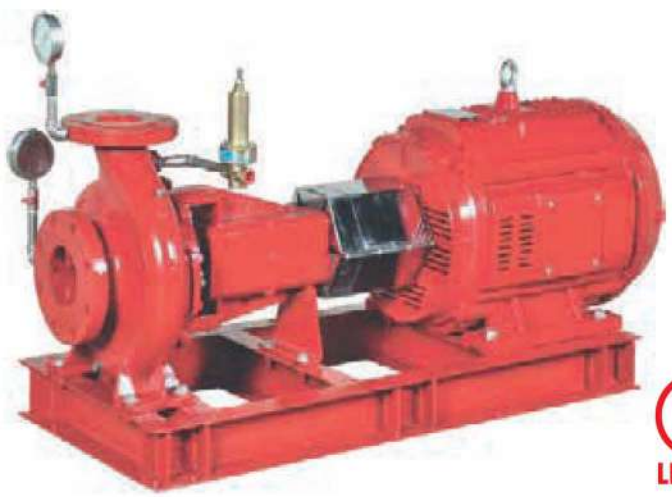
END SUCTION FIRE PUMP

DIESEL DRIVEN SKIDS

Jack maintains its standard with using it's proudly listed & approved Diesel Engines and Centrifugal Fire Pumps to package Heavy Duty and High Quality Compact Skids.

Our Listed and Approved Fire Pumps can also be coupled with any other Listed Diesel Engine of any specifc brand as per customers requirement.

UL LISTED



MOTOR DRIVEN SKIDS

Jack maintains its standard with using WEG which is High Efciency Fire Pump Motors with our own Listed and Approved Centrifugal Fire Pumps to package Heavy Duty and High Quality Compact Skids.

Our Listed and Approved Fire Pumps can also be coupled with any other Listed Fire Pump Motors of any specifc brand as per client requirement.

UL LISTED

END-SUCTION PUMP RANGE

APPROVED UL LISTING RANGE

LISTING RANGE

Rated Capacity, US GPM	Size, In.	Model	Pressure Rating, psi	Approx Speed RPM	Maximum Working Pressure Psi
50	2.5×1.5	VES 40-250	101 - 142	2900	200
50	2.5×1.5	VES 40-250	144 - 207	3500	290
100	2.5×1.5	VES 40-250	97 - 140	2900	200
100	2.5×1.5	VES 40-250	140 - 203	3500	290
150	2.5×1.5	VES 40-250	87 - 131	2900	200
150	2.5×1.5	VES 40-250	133 - 196	3500	290
150	3×2	VES 50-250	104 - 147	2980	225
150	3×2	VES 50-250	144 - 202	3500	290
200	3×2	VES 50-250	101 - 145	2980	225
200	3×2	VES 50-250	140 - 200	3500	290
250	3×2	VES 50-250	97 - 140	2980	225
250	3×2	VES 50-250	136 - 196	3500	290
250	4×2.5	VES 65-250	91 - 143	2900	225
250	4×2.5	VES 65-250	131 - 207	3500	290
300	4×2.5	VES 65-250	89 - 142	2900	225
300	4×2.5	VES 65-250	130 - 206	3500	290
400	4×2.5	VES 65-250	82 - 137	2900	225
400	4×2.5	VES 65-250	125 - 203	3500	290
400	5×3	VES 80-200	89 - 141	3500	225
400	5×3	VES 80-250	88 - 140	2900	225
400	5×3	VES 80-250	128 - 207	3500	290
450	5×3	VES 80-200	86 - 139	3500	225
450	5×3	VES 80-250	86 - 140	2900	225
450	5×3	VES 80-250	127 - 206	3500	290
450	5×3	VES 80-315	131 - 207	2900	290
450	5x4	VES 100-200	88 - 143	3500	225
450	5x4	VES 100-250	83 - 135	2900	290
450	5x4	VES 100-250	123 – 198	3500	290
450	5x4	VES 100-315	133 - 210	2900	290
450	5x4	VES 100-315	140 - 222	2980	290
500	5×3	VES 80-200	83 - 136	3500	225
500	5×3	VES 80-250	84 - 139	2900	225
500	5×3	VES 80-250	125 - 205	3500	290
500	5×3	VES 80-315	127 - 204	2900	290
500	5x4	VES 100-200	88 - 141	3500	225
500	5x4	VES 100-250	83 - 134	2900	290
500	5x4	VES 100-250	122 - 198	3500	290
500	5x4	VES 100-315	132 - 209	2900	290
500	5x4	VES 100-315	139 - 221	2980	290
500	6x4	VESD 150-100-200	116 - 142	3500	225
500	6x4	VESD 150-100-315	119 - 192	2900	250
750	5x4	VES 100-200	82 - 138	3500	225
750	5x4	VES 100-250	74 - 128	2900	290
750	5x4	VES 100-250	115 - 191	3500	290
750	5x4	VES 100-315	125 - 202	2900	290
750	5x4	VES 100-315	133 - 214	2980	290
750	6x4	VESD 150-100-200	112 - 137	3500	225
750	6x4	VESD 150-100-315	113 - 186	2900	250
1000	6x4	VESD 150-100-200	99 - 128	3500	225
1000	6x4	VESD 150-100-315	101 - 173	2900	250

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SPLIT CASE FIRE PUMP

Technical Specifcations	
Suction fange	125-400 MM
Discharge fange	75-355MM
Flow	**300-8000 GPM**
Discharge pressure	82-369 PSI

Material Specifcations	
Casing	Ductile Iron
Impeller	Bronze or stainless steel
Shaft	40Cr / Stainless Steel
Sealing	Gland packing
Bearing Housing	Rolling bearing
Suction/discharge fanges	ANSI

Pump Naming

MSCx 100-250

- Nominal impeller diameter (mm)
- Discharge fange DN (mm)
- Pump type

Product Standard

UL 448, NFPA

Product Approvals

Flange Standards

Pump Installing Dimensions are confirming to ISO2858 Standard, and Tested according to with UL 448 -2013

Driver Options

Electrical Diesel

Application Areas

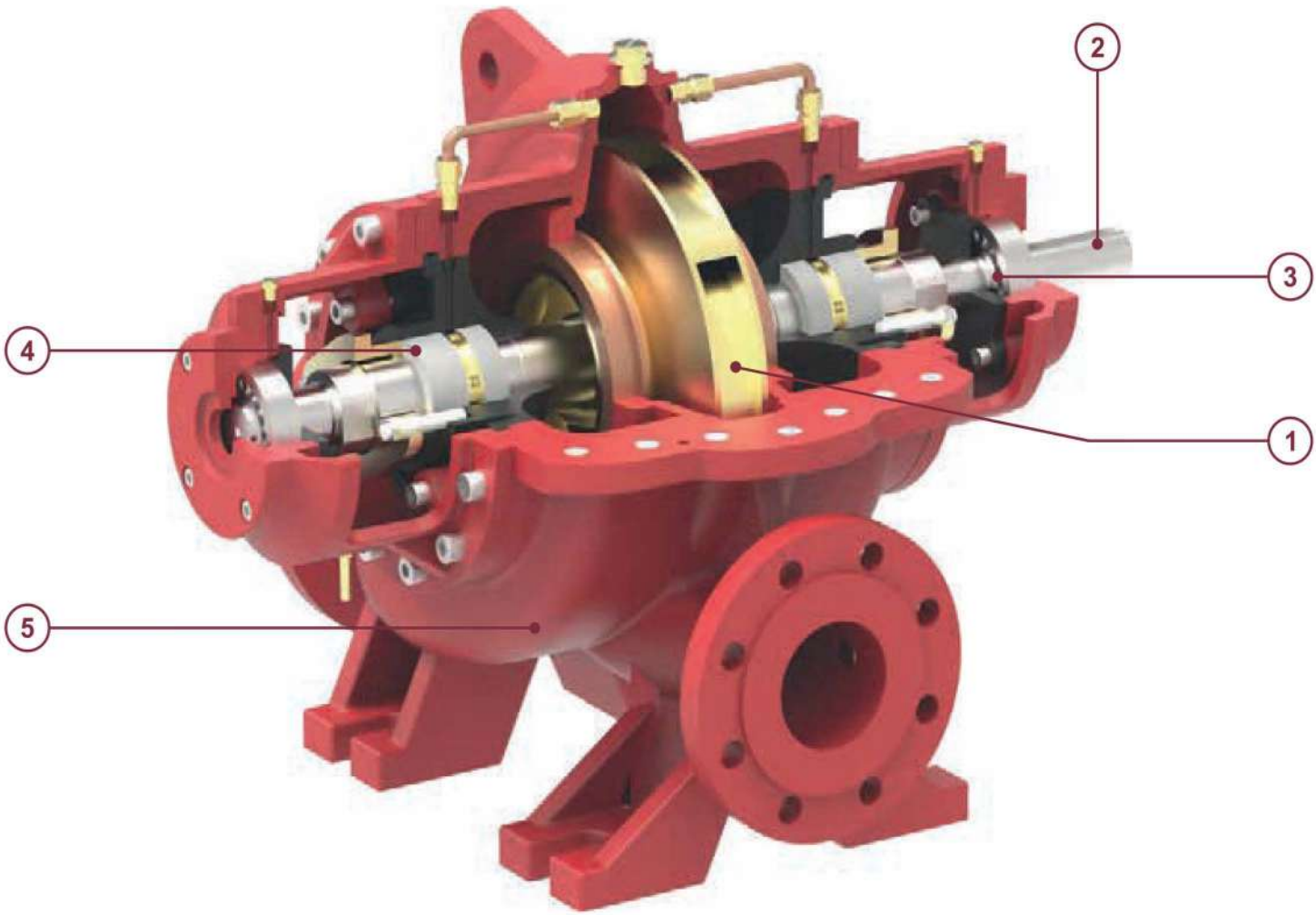
Hydrant Sprinkler

Overflow Foam

Risk Class

Ordinary High

SPLIT CASE FIRE PUMP



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 are CFD tools to ensure optional 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.

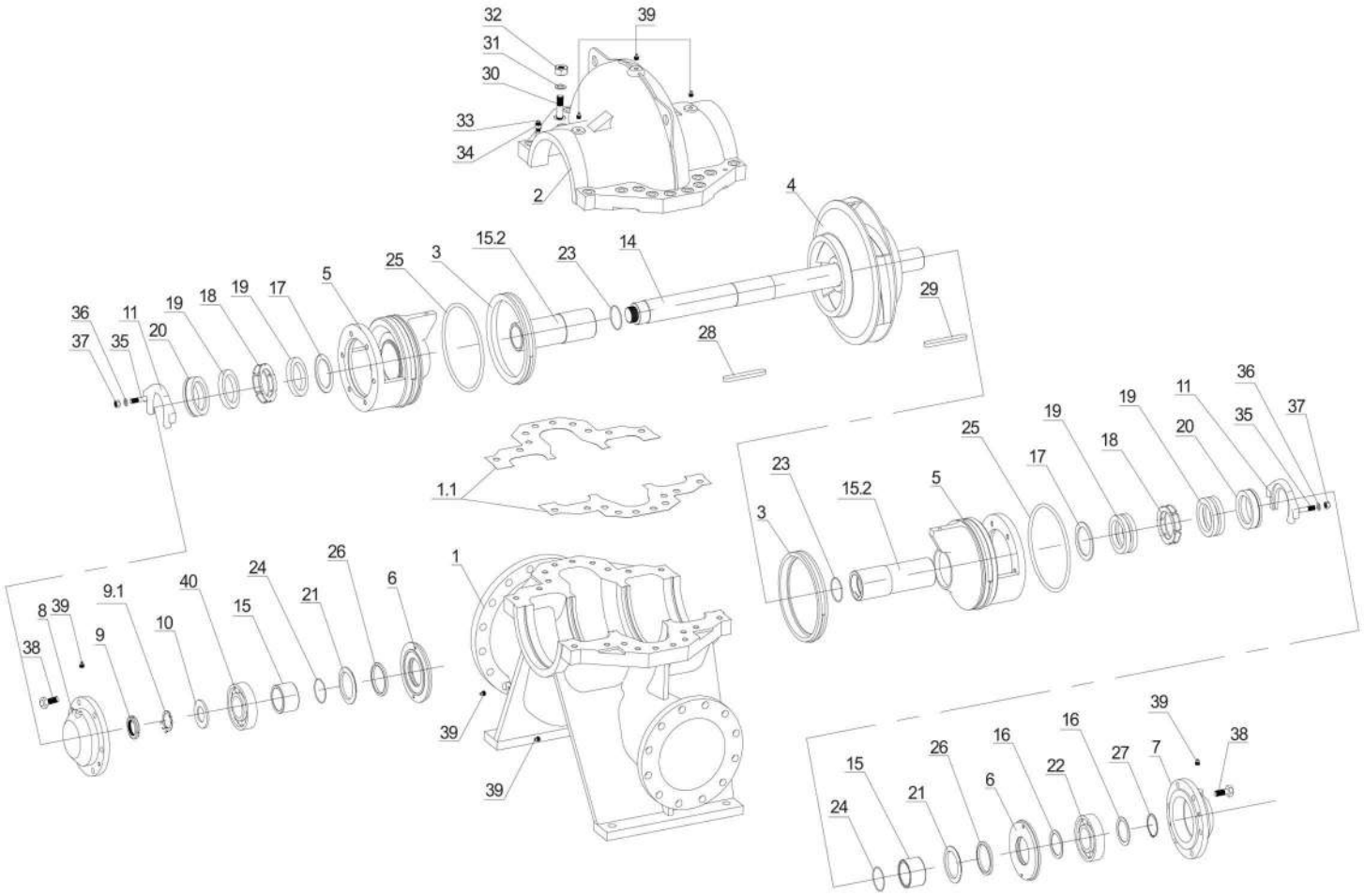
4 - Seal

- 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-stessed 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 ware ring protect the casing and the impeller running clearances.
- Heavy duty casing design for high working pressure.

MSC Series - Exploded View & Part list

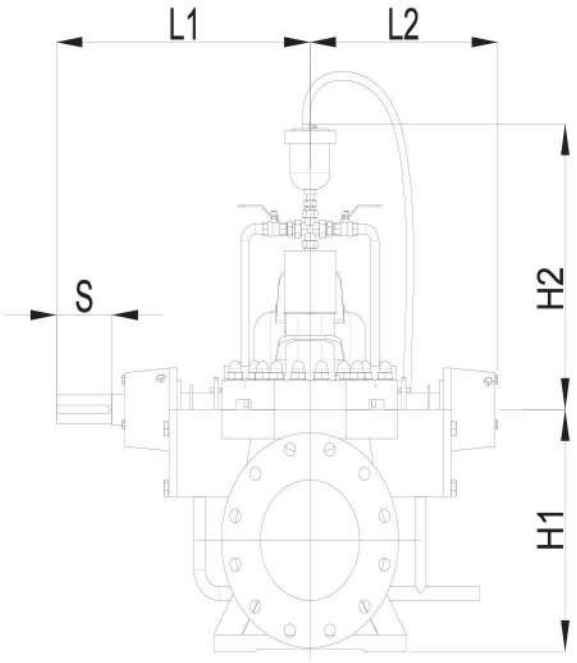


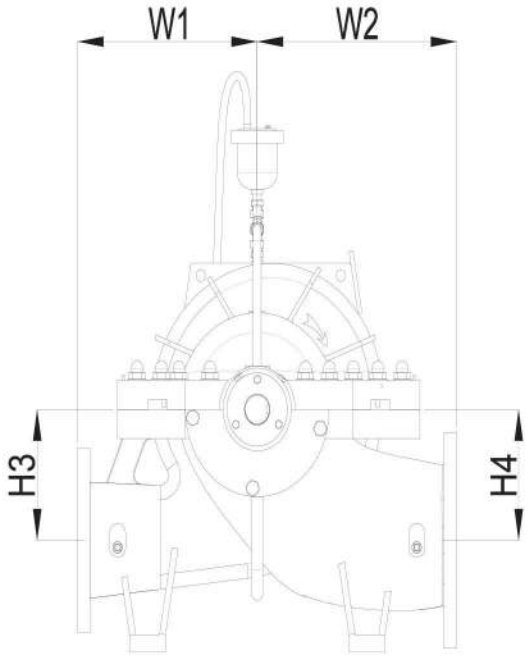
Code	Part Name
01	Casing-Bottom
01.1	Casing Gasket
02	Casing-Top
03	Wear Ring
04	Impeller
05	Seal Housing
06	Bearing Cover
07	Bearing Housing-Driver End
08	Bearing Housing-Non-Driver End
09	Screw Nut
09.1	Lock Washer for Nut
10	Bearing Slinger
11	Seal Plate
14	Shaft

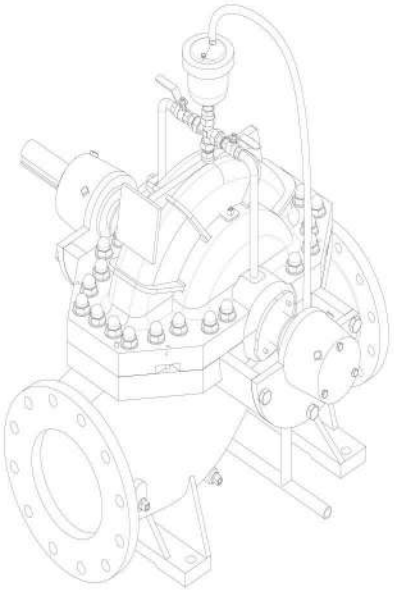
Code	Part Name
15	Shaft Sleeve-Short
15.2	Packing Shaft Sleeve
16	Bearing Seal Plate
17	Packing Seal Plate
18	Lantern Ring
19	Gland
20	Packing Cover
21	Slinger
22	Bearing
23	O-ring
24	O-ring
25	O-ring
26	Felting
27	External Circlips

Code	Part Name
28	Key
29	Key
30	Screw Bolt
31	Spring Washer
32	Screw Nut
33	Pin
34	Screw Nut
35	Screw Bolt
36	Flat Gasket
37	Screw Nut
38	Screw Bolt
39	Plug
40	Bearing

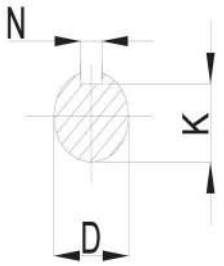
SPLIT CASE FIRE PUMP



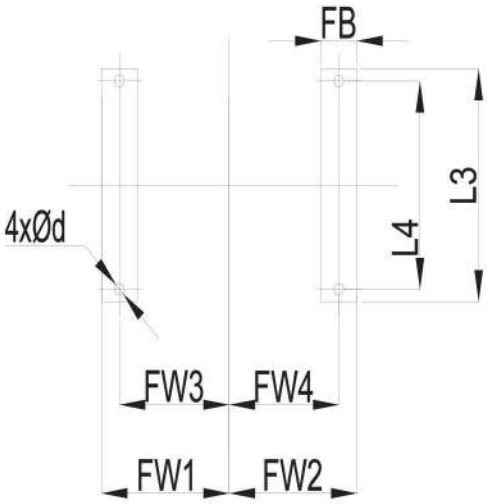




DETAIL SHAFT END

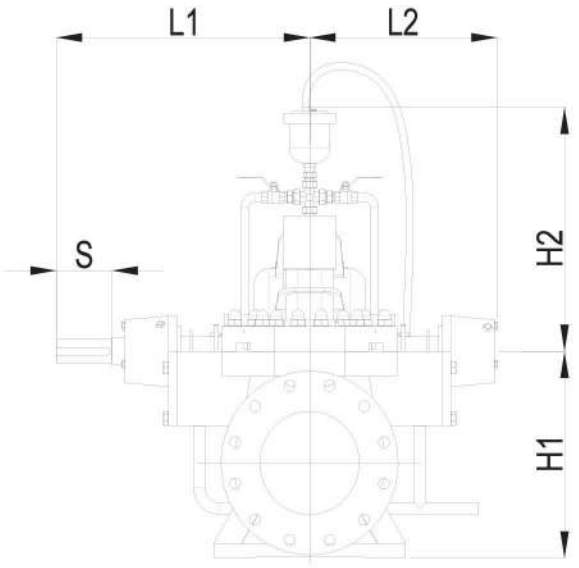


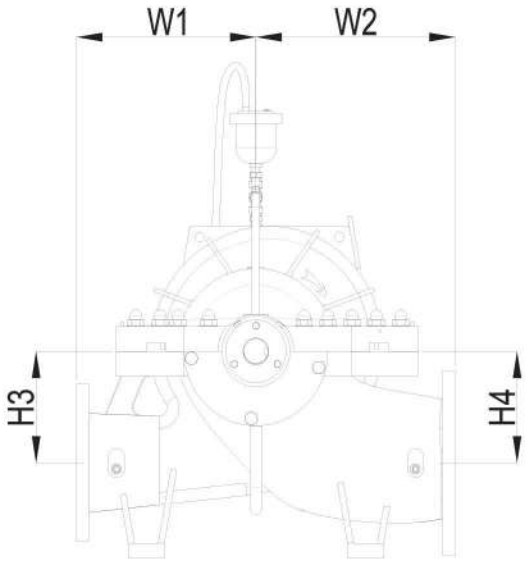
PLAN VIEW OF FEET

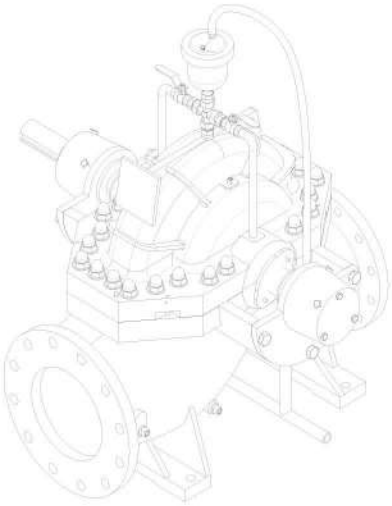


Model	Dimensions (Unit:mm)																					Flange(ANSI B16.1,Class250, RF)		Weight
	L1	L2	L3	L4	L5	W1	W2	FW1	FW2	FW3	FW4	FB	d	H1	H2	H3	H4	S	D	N	K	Suction	Discharge	(Kg)
	636	474	480	215	215	450	500	320	320	275	275	90	25	500	750	270	270	140	60	18	53	10 INCH	8 INCH	628
	570	440	440	195	195	400	520	265	305	225	265	80	25	520	720	280	280	110	50	14	44.5	10 INCH	8 INCH	615
	672	500	480	215	215	450	550	320	320	275	275	90	25	550	800	310	310	140	60	18	53	10 INCH	8 INCH	830
	672	500	480	215	215	450	550	320	320	275	275	90	25	550	800	310	310	140	60	18	53	10 INCH	8 INCH	822
	691	529	500	215	215	500	600	320	320	275	275	90	25	590	820	350	350	140	60	18	53	10 INCH	8 INCH	1015
	735	580	600	260	260	550	650	400	400	350	350	100	30	670	880	370	370	140	70	20	62.5	12 INCH	10 INCH	1386
	735	580	600	260	260	550	650	400	400	350	350	100	30	670	870	400	400	140	70	20	62.5	12 INCH	10 INCH	1388
	735	580	600	260	260	550	650	400	400	350	350	100	30	670	870	400	400	140	70	20	62.5	12 INCH	10 INCH	1388
	735	580	600	260	260	570	680	400	400	350	350	100	30	670	870	390	390	140	70	20	62.5	12 INCH	10 INCH	1468
	735	580	600	260	260	570	680	400	400	350	350	100	30	670	870	390	390	140	70	20	62.5	12 INCH	10 INCH	1500
	820	640	640	280	280	600	750	430	510	370	450	120	30	710	900	400	400	170	85	22	76	14 INCH	12 INCH	1819
	840	660	640	280	280	650	750	430	430	370	370	120	30	800	900	450	450	170	85	22	76	16 INCH	12 INCH	2430
	820	640	640	280	280	650	730	460	460	400	400	120	30	785	945	450	450	170	85	22	76	16 INCH	14 INCH	1920

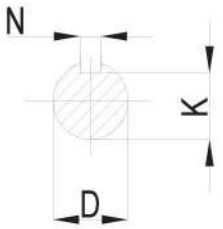
SPLIT CASE FIRE PUMP



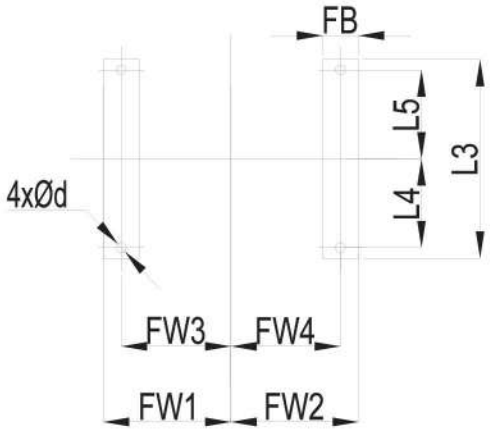




DETAIL SHAFT END



PLAN VIEW OF FEET



Model	Dimensions (Unit:mm)																				Flange(ANSI B16.1,Class250, RF)		Weight
	L1	L2	L3	L4	L5	W1	W2	FW1	FW2	FW3	FW4	FB	d	H1	H2	H3	H4	S	D	N	K	Suction	Discharge	(Kg)
	370	300	290	120	120	230	270	160	160	120	120	80	20	270	420	130	130	60	28	8	24	4 INCH	3 INCH	131
	370	305	290	120	120	250	280	170	170	130	130	80	20	310	480	170	170	60	28	8	24	4 INCH	3 INCH	156
	370	300	290	120	120	250	270	170	170	130	130	80	20	315	460	150	150	60	28	8	24	5 INCH	3 INCH	154
	434	345	290	120	120	250	330	160	200	120	160	80	20	315	580	160	160	80	35	10	30	5 INCH	3 INCH	190
	434	345	290	120	120	330	360	220	220	180	180	80	20	330	550	180	180	80	35	10	30	5 INCH	3 INCH	252
	439	350	320	135	135	290	330	210	210	170	170	80	20	315	610	170	170	80	35	10	30	5 INCH	4 INCH	224
	370	305	290	120	120	290	310	190	190	150	150	80	20	330	480	160	160	60	28	8	24	6 INCH	5 INCH	165
	449	360	320	135	135	300	400	210	250	170	210	80	20	400	620	200	200	80	35	10	30	6 INCH	5 INCH	272
	449	360	320	135	135	350	400	240	240	200	200	80	20	400	640	220	220	80	35	10	30	6 INCH	5 INCH	322
	520	400	390	170	170	350	500	240	340	200	300	80	25	455	680	285	285	110	45	14	39.5	6 INCH	5 INCH	417
	449	360	320	135	135	300	400	210	250	170	210	80	20	400	640	200	200	80	35	10	30	8 INCH	6 INCH	297
	449	360	320	135	135	300	400	210	250	170	210	80	20	400	640	200	200	80	35	10	30	8 INCH	6 INCH	297
	520	400	390	170	170	350	425	240	240	200	200	80	25	400	650	210	195	110	45	14	39.5	8 INCH	6 INCH	400
	520	400	390	170	170	350	415	240	240	200	200	80	25	455	660	230	230	110	45	14	39.5	8 INCH	6 INCH	397
	448	360	320	135	135	320	400	220	220	180	180	80	25	440	660	230	230	80	35	10	30	8 INCH	6 INCH	320
	520	400	390	170	170	340	420	240	240	200	200	80	25	455	630	250	250	110	45	14	39.5	8 INCH	6 INCH	390
	520	400	390	170	170	370	450	240	280	200	240	80	25	455	600	250	250	110	45	14	39.5	8 INCH	6 INCH	450
	520	400	390	170	170	370	450	240	280	200	240	80	25	455	600	250	250	110	45	14	39.5	8 INCH	6 INCH	440
	520	400	390	170	170	400	450	240	240	200	200	80	25	455	715	280	250	110	45	14	39.5	8 INCH	6 INCH	490
	520	400	390	170	170	400	450	240	240	200	200	80	25	455	715	280	250	110	45	14	39.5	8 INCH	6 INCH	497
	570	440	480	215	215	420	500	290	330	250	290	80	25	470	735	250	250	110	50	14	44.5	8 INCH	6 INCH	557
	570	440	480	215	215	420	500	290	330	250	290	80	25	470	735	250	250	110	50	14	44.5	8 INCH	6 INCH	564
	570	440	480	215	215	480	560	310	310	270	270	80	25	560	800	330	330	110	50	14	44.5	8 INCH	6 INCH	1015
	691	529	500	215	215	500	600	320	360	275	315	90	25	560	850	350	350	140	60	18	53	8 INCH	6 INCH	1051

FIRE PUMP SKIDS

Jack Pump is an established well reputed manufacturer of Premium Custom Engine Driven Centrifugal Fire Pump Skids. We specialized in designing and developing packages in compliance to NFPA 20 requirements with Listed & Approved Drivers.

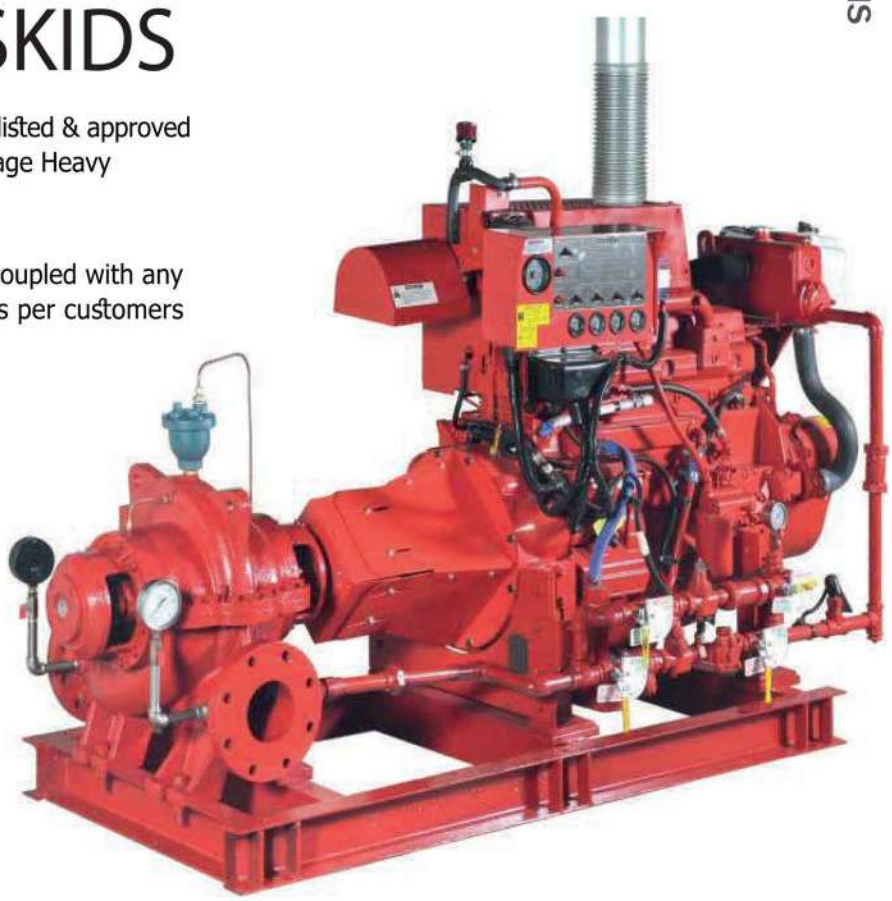
Jack offers listed Centrifugal Fire Pump Skids that meet every fre protection need.

- Driven by Listed & Approved Diesel Engines or Electric Motors.
- Well aligned and Coupled for Direct Operation.
- Skid Packages are Pre-Tested and Inspected thoroughly before release to customers.
- One piece base plate with Anchor Bolt holes.
- Engineered, coated, hot rolled mild steel to resist corrosion and abrasion.
- Heavy Fabricated C-Channel Structure constructed to provide proper alignment of Pump with Diesel Engine or Pump with Motor.
- Compact skid Design with Small Foot-Print for Retroft.
- High standard of Quality in material Construction fnish and Workmanship.

DIESEL DRIVEN SKIDS

Jack maintains its standard with using it's proudly listed & approved Diesel Engines and Centrifugal Fire Pumps to package Heavy Duty and High Quality Compact Skids.

Our Listed and Approved Fire Pumps can also be coupled with any other Listed Diesel Engine of any specifc brand as per customers requirement.



MOTOR DRIVEN SKIDS

Jack maintains its standard with using WEG which is High Efciency Fire Pump Motors with our own Listed and Approved Centrifugal Fire Pumps to package Heavy Duty and High Quality Compact Skids.

Our Listed and Approved Fire Pumps can also be coupled with any other Listed Fire Pump Motors of any specifc brand as per client requirement.

SPLIT CASE PUMP RANGE

APPROVED UL LISTING SPLIT CASE RANGE

Rated Capacity (gpm)	Size (in.)	Model Dsg	Rated Net Pressure Range (psi)	Approx Speed (rpm)	Max Working Pressure (psi)
300	5x3	MSC5-80-200	54 - 81	2980	161
300	5x3	MSC5-80-200	78 - 115	3550	200
300	5x3	MSC5-80-250	55 - 87	2350	163
300	5x3	MSC5-80-250	68 - 107	2600	183
300	5x3	MSC5-80-250	83-136	2950	280
300	5x3	MSC5-80-250	120-196	3550	280
300	5x4	MSC5-100-300	98 - 124	2350	206
300	5x4	MSC5-100-300	120 - 153	2600	236
300	5x4	MSC5-100-300	123-195	2980	400
300	5x4	MSC5-100-300	176-279	3550	400
400	5x3	MSC5-80-200	53 - 79	2980	161
400	5x3	MSC5-80-200	76 - 113	3550	200
400	5x3	MSC5-80-250	51 - 84	2350	163
400	5x3	MSC5-80-250	64 - 105	2600	183
400	5x3	MSC5-80-250	82-135	2950	280
400	5x3	MSC5-80-250	120-196	3550	280
400	5x4	MSC5-100-300	94 - 119	2350	206
400	5x4	MSC5-100-300	117 - 149	2600	236
400	5x4	MSC5-100-300	120-189	2980	400
400	5x4	MSC5-100-300	173-274	3550	400
450	5x3	MSC5-80-200	52 - 78	2980	161
450	5x3	MSC5-80-200	75 - 112	3550	200
450	5x3	MSC5-80-250	49 - 83	2350	163
450	5x3	MSC5-80-250	63 - 103	2600	183
450	5x3	MSC5-80-250	80-134	2950	280
450	5x3	MSC5-80-250	119-196	3550	280
450	5x4	MSC5-100-300	93 - 117	2350	206
450	5x4	MSC5-100-300	116 - 146	2600	236
450	5x4	MSC5-100-300	119-187	2980	400
450	5x4	MSC5-100-300	172-272	3550	400
500	5x3	MSC5-80-200	51 - 77	2980	161
500	5x3	MSC5-80-200	74 - 111	3550	200
500	5x3	MSC5-80-250	47 - 80	2350	163
500	5x3	MSC5-80-250	60 - 101	2600	183
500	5x3	MSC5-80-250	79-133	2950	280
500	5x3	MSC5-80-350	184-295	2950	380
500	5x3	MSC5-80-350G	172-257	2980	261
500	5x3	MSC5-80-250	118 - 195	3550	280
500	5x4	MSC5-100-300	90 - 114	2350	206
500	5x4	MSC5-100-300	113 - 143	2600	236
500	5x4	MSC5-100-300	117-184	2980	400
500	5x4	MSC5-100-300	170-269	3550	400
500	6x5	MSC6-125-250	76 - 101	2350	178
500	6x5	MSC6-125-250	92 - 124	2600	201
500	6x5	MSC6-125-250	117-162	2980	310
500	6x5	MSC6-125-250	137-230	3550	310
500	6x5	MSC6-125-310	111 - 128	2350	205
500	6x5	MSC6-125-310	136 - 158	2600	233
500	6x5	MSC6-125-310	137-207	2980	370
500	6x5	MSC6-125-310	196-294	3550	370
500	6x5	MSC6-125-400	208-283	2980	370
500	6x5	MSC6-125-250S	130-185	3550	290
750	5x3	MSC5-80-200	68	2980	161
750	5x3	MSC5-80-200	66 - 103	3550	200
750	5x3	MSC5-80-250	108 - 120	2950	280
500	5x3	MSC5-80-350	112 - 184	2350	266
500	5x3	MSC5-80-350	140 - 227	2600	308
500	5x3	MSC5-80-350	269 - 308	3550	388
750	5x3	MSC5-80-350	131 - 172	2350	266
750	5x3	MSC5-80-350	145 - 217	2600	308
750	5x3	MSC5-80-350	167-286	2950	380
750	5x3	MSC5-80-350	254 - 292	3550	388
750	5x3	MSC5-80-350G	169-251	2980	261
750	5x3	MSC5-80-250	105-185	3550	280
750	6x4	MSC6-100 -320	138-198	2980	202
750	5x4	MSC5-100-300	104-163	2980	400
750	5x4	MSC5-100-300	157-247	3550	400
750	6x5	MSC6-125-250	71 – 97	2350	178
750	6x5	MSC6-125-250	89 - 121	2600	201
750	6x5	MSC6-125-250	114-160	2980	310
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750	6x5	MSC6-125-310	105 - 123	2350	205
750	6x5	MSC6-125-310	130 - 153	2600	233
750	6x5	MSC6-125-310	132-203	2980	370
750	6x5	MSC6-125-310	191-291	3550	370
750	6x5	MSC6-125-400	203-277	2980	370
750	8x6	MSC8-150-330	40 - 77	1760	310
750	8x6	MSC8-150-420	272-367	2950	460
1000	5x3	MSC5-80-350	220-270	2950	380
1000	6x4	MSC6-100 -320	130-191	2980	202
1000	8x6	MSC8-150-310	58 - 147	2350	229
1000	8x6	MSC8-150-310	73 - 181	2600	263
1000	8x6	MSC8-150-310	119-237	2980	350
1000	8x6	MSC8-150-310	175-286	3550	370
1000	6x5	MSC8-125-200	79-145	3550	246
1000	6x5	MSC6-125-250	103-151	2980	310
1000	6x5	MSC6-125-310	121-192	2980	370
1000	6x5	MSC6-125-400	192-265	2980	370
1000	6x5	MSC6-125-250	130-225	3550	310
1000	6x5	MSC6-125-310	182-283	3550	370
1000	8x6	MSC8-150-330	40-74	1760	310
1000	8x6	MSC8-150-420	260-359	2950	460
1250	8x5	MSC8-125-300	116-190	2980	187
1250	8x5	MSC8-125-380	118-177	2200	261
1250	8x6	MSC8-150-310	76 - 141	2350	229
1250	8x6	MSC8-150-310	96 - 177	2600	263
1250	8x6	MSC8-150-310	112-230	2980	350
1250	8x6	MSC8-150-310	168-281	3550	370
1250	8x6	MSC8-150-250	83-149	2950	330

LISTING RANGE

SPLIT CASE PUMP RANGE

1250	8x6	MSC8-150-250	133-225	3550	330
1250	8x6	MSC8-150-330	76 - 135	2350	229
1250	8x6	MSC8-150-330	95 - 167	2600	263
1250	8x6	MSC8-150-375	70 - 131	1760	270
1250	8x6	MSC8-150-375	106 - 188	2100	270
1250	8x6	MSC8-150-400	85 - 126	1760	270
1250	8x6	MSC8-150-420	241-346	2950	460
1500	8x6	MSC8-150-640	124-220	1480	300
1500	8x6	MSC8-150-460	115-181	1800	275
1500	8x6	MSC8-150-375	88 – 128	1760	270
1500	8x6	MSC8-150-375	100 – 187	2100	270
1500	8x6	MSC8-150-310	109-221	2980	350
1500	8x6	MSC8-150-310	158-269	3550	370
1500	8x6	MSC8-150-330	71 - 131	2350	229
1500	8x6	MSC8-150-330	90 - 163	2600	263
1500	8x6	MSC8-150-250	122-216	3550	330
1500	8x6	MSC8-150-480	120-171	1760	275
1500	8x6	MSC8-150-400	82 - 124	1760	270
1500	8x6	MSC8-150-400	121-181	2100	275
2000	8x6	MSC8-150-400	94 - 115	1760	270
2000	8x6	MSC8-150-640	117-216	1480	300
2000	8x6	MSC8-150-480	109-165	1760	275
2000	8x6	MSC8-150-480GL	122-188	1760	270
2000	8x6	MSC8-150-460	118-175	1800	275
2000	8x6	MSC8-150-400	111-174	2100	275
2000	8x6	MSC8-150-330	107-190	2950	310
2000	10x8	MSC10-200-500	118-186	1800	320
2000	10x8	MSC10-200-500	149-234	2000	320
2000	10x8	MSC10-200-350	123-239	2980	362
2500	8x6	MSC8-150-640	107-206	1480	300
2500	8x6	MSC8-150-480	96-155	1760	275
2500	8x6	MSC8-150-480GL	111-181	1760	270
2500	8x6	MSC8-150-400	160	2100	275
2500	10x8	MSC10-200-350	114-227	2980	362
2500	10x8	MSC10-200-430	138	1800	275
2500	10x8	MSC10-200-450	124-155	1760	333
2500	10x8	MSC10-200-450	165-203	2000	333
2500	10x8	MSC10-200-500	110-176	1800	320
2500	10x8	MSC10-200-500	141-225	2000	320
2500	10x8	MSC10-200-430	125-190	2100	275
3000	8x6	MSC8-150-640	162-194	1480	300
3000	10x8	MSC10-200-450	115-147	1760	333
3000	10x8	MSC10-200-450	158-197	2000	333
3000	12x10	MSC12-250-640	176-249	1480	330
3000	12x10	MSC12-250-500	120-154	1480	330
3000	10x8	MSC10-200-500	121-179	1760	340
3000	10x8	MSC10-200-500	162-238	2000	340

3000	10x8	MSC10-200-430	144-187	2100	275
3000	10x8	MSC10-200-600	114-188	1480	275
3000	10x8	MSC10-200-600	166-246	1760	330
3500	12x10	MSC12-250-640G	196-290	1480	377
3500	12x10	MSC12-250-640	169-242	1480	330
3500	12x10	MSC12-250-500	117-152	1480	330
3500	10x8	MSC10-200-500	136-170	1760	340
3500	10x8	MSC10-200-600	107-184	1480	275
3500	10x8	MSC10-200-600	160-241	1760	330
3500	12x10	MSC12-250-490	119-189	1800	290
3500	10x8	MSC10-200-500	154-229	2000	340
4000	10x8	MSC10-200-600	142-176	1480	275
4000	10x8	MSC10-200-600	152-234	1760	330
4000	12x10	MSC12-250-500	114-148	1480	330
4000	12x10	MSC12-250-640	162-233	1480	330
4000	12x10	MSC12-250-640G	191-288	1480	377
4000	14x10	MSC14-250-640	138-217	1480	300
4000	12x10	MSC12-250-490	114-185	1800	290
4000	12x10	MSC12-250-500	125-225	1800	330
4500	10x8	MSC10-200-600	175-226	1760	330
4500	12x10	MSC12-250-500	109-145	1480	330
4500	12x10	MSC12-250-600	143-207	1450	303
4500	12x10	MSC12-250-640G	184-284	1480	377
4500	14x10	MSC14-250-640	136-216	1480	300
4500	16x14	MSC16-350-640	129-196	1480	315
4500	12x10	MSC12-250-490	153-181	1800	290
4500	12x10	MSC12-250-500	121-222	1800	330
5000	12x10	MSC12-250-600	139-206	1450	303
5000	12x10	MSC12-250-640G	211-277	1480	377
5000	14x10	MSC14-250-640	134-214	1480	300
5000	16x14	MSC16-350-640	127-194	1480	315
5000	12x10	MSC12-250-500	134-218	1800	330
5500	16x12	MSC16-300-750	205-278	1480	370
5500	16x14	MSC16-350-640	124-192	1480	315
6000	14x10	MSC14-250-640	127-209	1480	300
6000	14x10	MSC14-250-640	220-280	1760	370
6000	16x12	MSC16-300-750	204-277	1480	370
6000	16x14	MSC16-350-640	120-190	1480	315
6500	14x10	MSC14-250-640	205	1480	300
6500	14x10	MSC14-250-640	216-276	1760	370
6500	16x12	MSC16-300-750	203-276	1480	370
6500	16x14	MSC16-350-640	116-186	1480	315
7000	14x10	MSC14-250-640	201	1480	300
7000	14x10	MSC14-250-640	211-271	1760	370
7000	16x12	MSC16-300-750	200-274	1480	370
7000	16x14	MSC16-350-640	113-182	1480	315
7500	14x10	MSC14-250-640	195	1480	300
7500	14x10	MSC14-250-640	205-267	1760	370
7500	16x12	MSC16-300-750	197-272	1480	370
7500	16x14	MSC16-350-640	109-179	1480	315
8000	14x10	MSC14-250-640	239-261	1760	370
8000	16x12	MSC16-300-750	223-269	1480	370
8000	16x14	MSC16-350-640	117-192	1540	315

LISTING RANGE

VERTICAL TURBINE FIRE PUMP

Technical Specifcations	
Flow	50-5000GPM
Discharge pressure	84-230PSI
Speed Range	1450-2900 RPM
Discharge fanges	2.5-12"

Material Specifcations	
Discharge head	ASTM A53A Type S Gr.B
Impeller	ASTM A473, S41600
Bowl	ASTM A536, 65-45-12
Shaft	ASTM A473, S41600
Column Pipe	ASTM A473, S41600
Strainer	ASTMA240,S30400

Driver Options

Application Areas

Risk Class

Product Standard

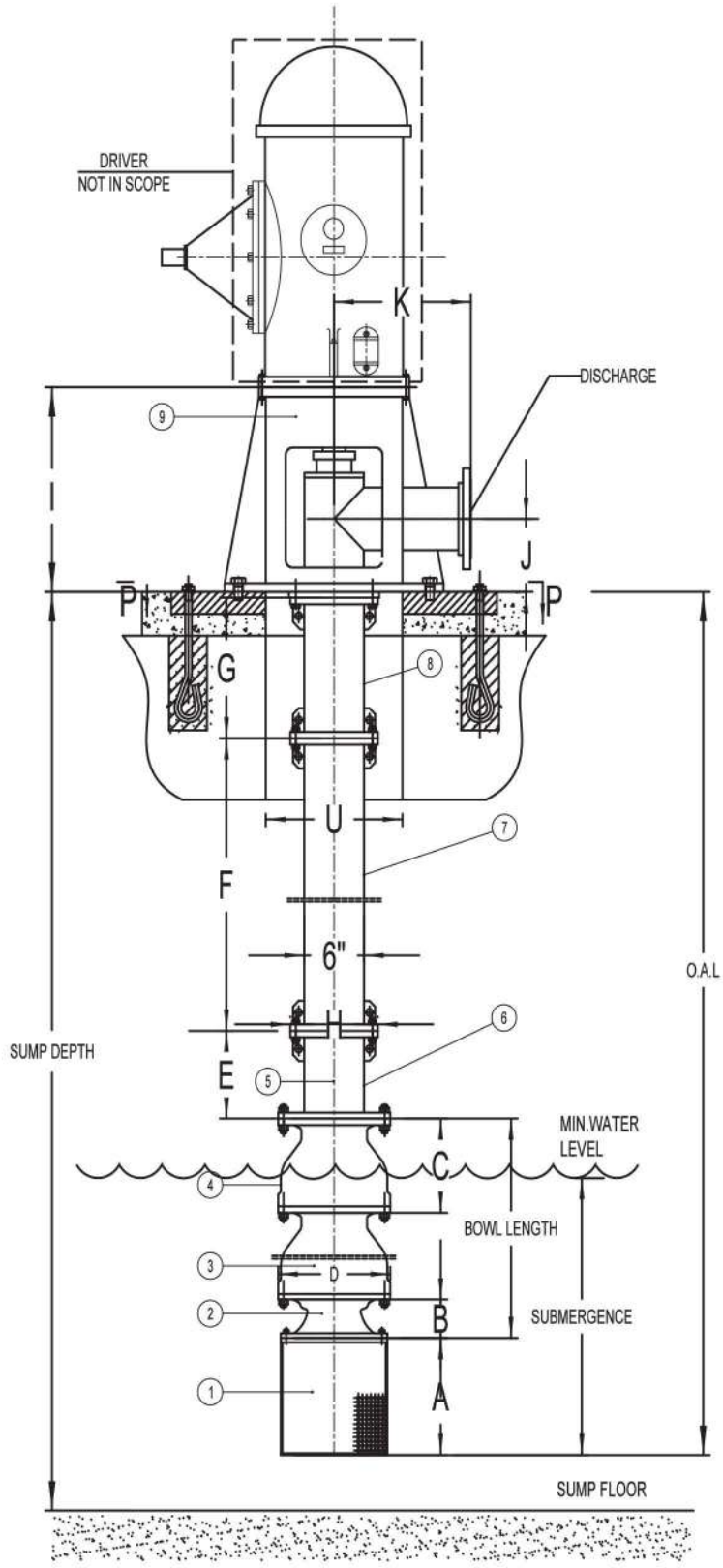
UL 448, NFPA

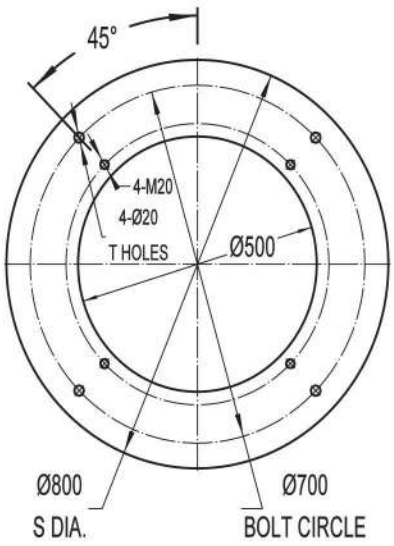
Product Approvals

Flange Standards

Pump Installing Dimensions are confirming to ISO2858 Standard, and Tested according to with UL 448 -2013

VERTICAL TURBINE FIRE PUMP





Foundation Plate Details

ITEM	DESCRIPTION	MATERIAL
1	Strainer	ASTM A240, S30400
2	Suction Bell	ASTM A536, 65-45-12
3	Impeller	ASTM A473, S41600
4	Bowl	ASTM A536, 65-45-12
5	Shaft	ASTM A473, S41600
6	Lower Column Pipe	ASTM A53A Type S Gr.B
7	Middle Column Pipe	ASTM A53A Type S Gr.B
8	Upper Column Pipe	ASTM A53A Type S Gr.B
9	Discharge Head	ASTM A53A Type S Gr.B

Pump						Column Pipe					Discharge Head and Baseplate									
Pump Model	Stage	A	B	C*n	D	E	F	G	H	Dia	I	J	K	M	N	O	Q	S	T	U
VT 80-145	3~7	150	100	135*n	210	300	0	500	265	6"	550	200	380	600	550	4×Φ24	800	700	4×Φ20	500
VT 100-155	3~6	150	125	175*n	215	300	0	500	265	6"	550	200	380	600	550	4×Φ24	800	700	4×Φ20	500
VT 125-180	2~5	200	150	235*n	256	300	0	500	265	6"	550	200	380	600	550	4×Φ24	800	700	4×Φ20	500
VT 145-270	3~8	200	150	300*n	360	300	0	500	265	6"	550	200	380	600	550	4×Φ24	800	700	4×Φ20	500
VT 150-265	3~8	200	150	300*n	360	300	0	500	265	6"	550	200	380	600	550	4×Φ24	800	700	4×Φ20	500

UL LISTED

VERTICAL TURBINE

OUTLINE DIMENSIONS

VERTICAL TURBINE PUMP RANGE

APPROVED UL LISTING VERTICAL TURBINE RANGE

Rated Capacity (gpm)	Model Dsg	Rated Net Pressure Range (psi)	Approx Speed (rpm)	Number of Stages
250	VT80-145	75-98	2950	3
250	VT80-145	106-230	2950	4-7
300	VT80-145	71-95	2950	3
300	VT80-145	100-221	2950	4-7
400	VT100-155	82-238	2950	3-6
500	VT100-155	78-228	2950	3-6
750	VT125-180	68-255	2950	2-5
300	VT145-270	70-277	1480	3-8
400	VT145-270	67-270	1480	3-8
500	VT145-270	64-261	1480	3-8
300	VT145-270	103-297	1760	3-6
400	VT145-270	97-292	1760	3-6
500	VT145-270	94-283	1760	3-6
500	VT150-265	68-274	1480	3-8
750	VT150-265	60-263	1480	3-8
500	VT150-265	96-296	1760	3-6
750	VT150-265	85-282	1760	3-6
750	VT170-304	75-85	1480	2
750	VT170-304	113-128	1480	3
750	VT170-304	150-170	1480	4
750	VT170-304	188-255	1480	5 - 6
1000	VT170-304	72-83	1480	2
1000	VT170-304	108-124	1480	3
1000	VT170-304	144-165	1480	4
1000	VT170-304	180-248	1480	5 - 6
1250	VT170-304	69-80	1480	2
1250	VT170-304	103-121	1480	3
1250	VT170-304	138-161	1480	4
1250	VT170-304	172-241	1480	5 - 6
750	VT170-304	109-123	1760	2
750	VT170-304	163-184	1760	3
750	VT170-304	217-246	1760	4
1000	VT170-304	105-119	1760	2
1000	VT170-304	157-179	1760	3
1000	VT170-304	210-238	1760	4
1250	VT170-304	102-116	1760	2
1250	VT170-304	152-174	1760	3
1250	VT170-304	203-232	1760	4
1250	VT185-335	80-94	1480	2
1250	VT185-335	119-140	1480	3
1250	VT185-335	159-187	1480	4
1250	VT185-335	199-234	1480	5

Rated Capacity (gpm)	Model Dsg	Rated Net Pressure Range (psi)	Approx Speed (rpm)	
1500	VT185-335	76-90	1480	2
1500	VT185-335	114-135	1480	3
1500	VT185-335	152-224	1480	4 - 5
1250	VT185-335	117-135	1760	2
1250	VT185-335	175-203	1760	3
1500	VT185-335	113-132	1760	2
1500	VT185-335	170-197	1760	3
1500	VT200-350	90-119	1480	2
1500	VT200-350	134-238	1480	3 - 4
2000	VT200-350	84-115	1480	2
2000	VT200-350	126-230	1480	3 - 4
1500	VT200-350	131-171	1760	2
2000	VT200-350	125-165	1760	2
2000	VT225-400	117-153	1480	2
2000	VT225-400	176-306	1480	3 - 4
2500	VT225-400	114-149	1480	2
2500	VT225-400	171-298	1480	3 - 4
3000	VT250-400	127-137	1480	2
3000	VT250-400	190-206	1480	3
3000	VT250-400	254-275	1480	4
3500	VT250-400	123-135	1480	2
3500	VT250-400	185-202	1480	3
3500	VT250-400	246-270	1480	4
4000	VT250-400	118-130	1480	2
4000	VT250-400	178-195	1480	3
4000	VT250-400	237-260	1480	4
4000	VT275-430	66-78	1480	1
4000	VT275-430	133-156	1480	2
4000	VT275-430	199-234	1480	3
4500	VT275-430	64-76	1480	1
4500	VT275-430	129-152	1480	2
4500	VT275-430	193-229	1480	3
5000	VT275-430	62-74	1480	1
5000	VT275-430	124-147	1480	2
5000	VT275-430	186-221	1480	3

JOCKEY PUMPS

Jockey pumps are small, motor driven pumps used in conjunction with main fire pumps to compensate for minor leaks in the fire protection system and automatically maintain stand-by pressure. This reduces wear on the main pump and controller caused by unnecessary, frequent operation. Jockey Pump controllers are available for across the-line starting.

CONTROLLERS

- **ELECTRIC PUMP CONTROL**
- **DIESEL PUMP CONTROL**
- **JOCKEY PUMP CONTROL**
- **AND ALARM PANEL**

All Fire Pump Controllers are factory assembled, wired, tested as a unit and confirmed to all requirements of the latest edition of NFPA-20 (Centrifugal Fire Pumps) and NFPA-70 (National Electrical Code). Controllers are listed by Underwriters Laboratories, Inc., in accordance with UL218, Standard for Fire Pump Controllers, CSA, and Standard for Industrial Control Equipment (CUL) and approved by Factory Mutual (FM). All controllers are Y2K compliant.

This component plays a vital role in fire pumps as it controls the entire system. It is selected as per customer choice if any, otherwise it can be either TORNATECH, FIRETROL, or HUBBLE.

GERAND ENGINEERING

"MODEL G" FIRE PUMP TEST METERS

Accurate Pump Performance and Quality Service for 50 Years

NEW

BEST VALUE IN THE INDUSTRY

5 YEAR WARRANTY

MANUFACTURED IN THE USA

HIGH GRADE MATERIALS:

CARBON STEEL, STAINLESS STEEL, EPOXY AND MONEL

FM APPROVED

MODEL-G METERS

-- RATING 500 PSI --
(Buttweld, Grooved, 300# Flanged)

-- RATING 275 PSI --
(150# Flanged)

CALIBRATED VENTURI & ATTACHED GPM METER

4½" DIAL METER MOUNTS ON VENTURI BRACKET

FM APPROVED

ADDITIONAL SIZES LISTED AT WWW.GERAND.COM

PUMP GPM	PIPE SIZE	VENTURI STYLE	METER RANGE (GPM)	VENTURI LENGTH (BUTTWELD OR GROOVED)	VENTURI LENGTH (150# FLANGED)	VENTURI LENGTH (300# FLANGED)
50	2"	685	25-100	4¼" THREADED	–	–
100	2 1/2"	746	50-200	3" BUTTWELD 4" GROOVED	9½"	10"
250	4"	744	125-500	3½" BUTTWELD 3¾" GROOVED	9½"	10¾"
300	4"	744	150-600			
450	4"	744	225-900			
500	5"	715	250-1000	5"	12"	13¾"
500	6"	743	250-1000	6"	13"	14¼"
750	6"	743	375-1500			
1000	6"	743	500-2000			
1250	6"	743	625-2500			
1500	8"	750	750-3000	7"	15'	16¼"
2000	8"	750	1000-4000			
2500	8"	750	1250-5000			

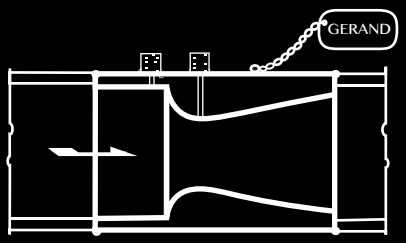
WWW.GERAND.COM FOR MORE INFORMATION

*Venturi available in Raised or Flat Face; Steel, Stainless Steel or Monel
**Dual LPM/GPM Scales Available

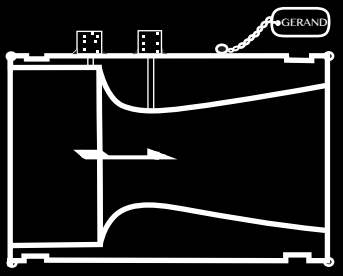
2300 EDGEWOOD AVE, MINNEAPOLIS, MN 55426 952.374.1320 WWW.GERAND.COM

VENTURI STYLES

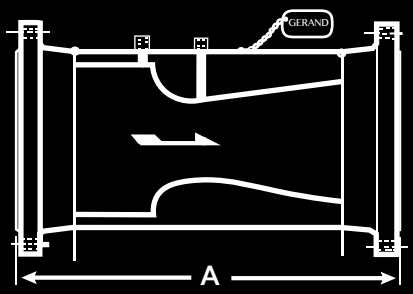
BUTTWELD



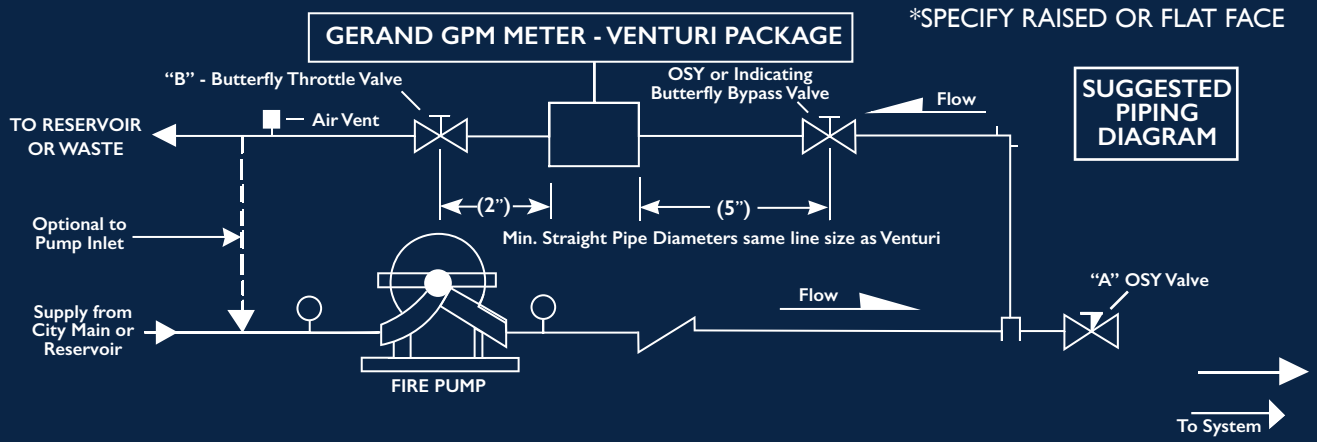
GROOVED



FLANGED



OPERATING INSTRUCTIONS



1. Close system OSY valve "A"
2. Open by-pass valve and "B" butterfly throttle valve
3. Purge meter, located on venturi, as follows:
   a) Open station shut-off valves on venturi & vent valves attached to meter. When a steady stream of water passes through hose, meter is purged of air.
   b) Close the vent valves after purging.
4. Start the fire pump, and read meter in GPM.
5. Refer to pump GPM requirement and adjust throttle valve to meet the requirement.
6. After the test, open valve "A" and close the by-pass and "B" valves.

MANUFACTURED IN U.S.A.

CERTIFIED ISO 9001:2008 COMPANY

FM APPROVED

Minimum Fittings

GERAND VENTURI TYPE FLOW METER

FM Approved

construction & specifications

Materials: Steel zinc plated astm a53b erw – ansi b36.10

Valves: Cast bronze astm b584

Flange option: astm a105 2½"-10" sch 40 bore
12" & above std. bore

Id tag: Aluminum- 3.21" thick #200 mill

meter data

Dial standard: 4"

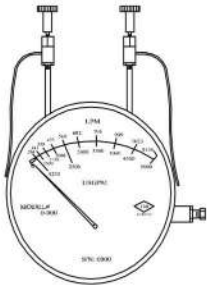
Construction: Case is anodized aluminum

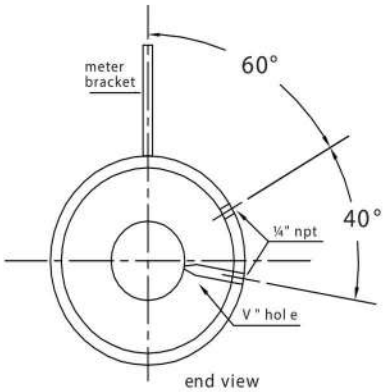
Operation: buna n diaphragm and 302 ss spring Accuracy: within ±2.0%

Temperature: 180°f (80°c)

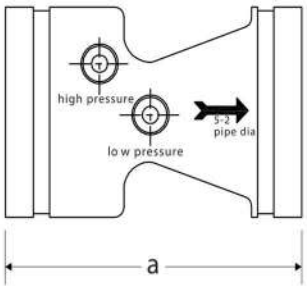
Pressure: 500 psig (3450 kpa)

Approx. Weight: 3.75 lbs (1.7 kg)



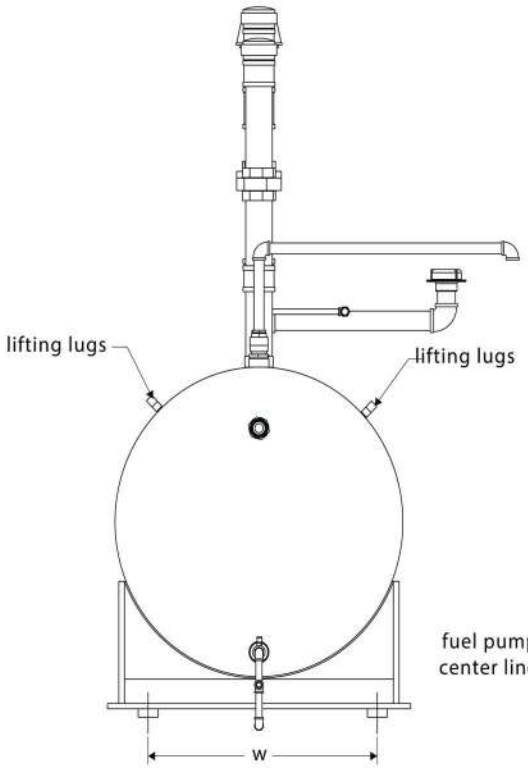


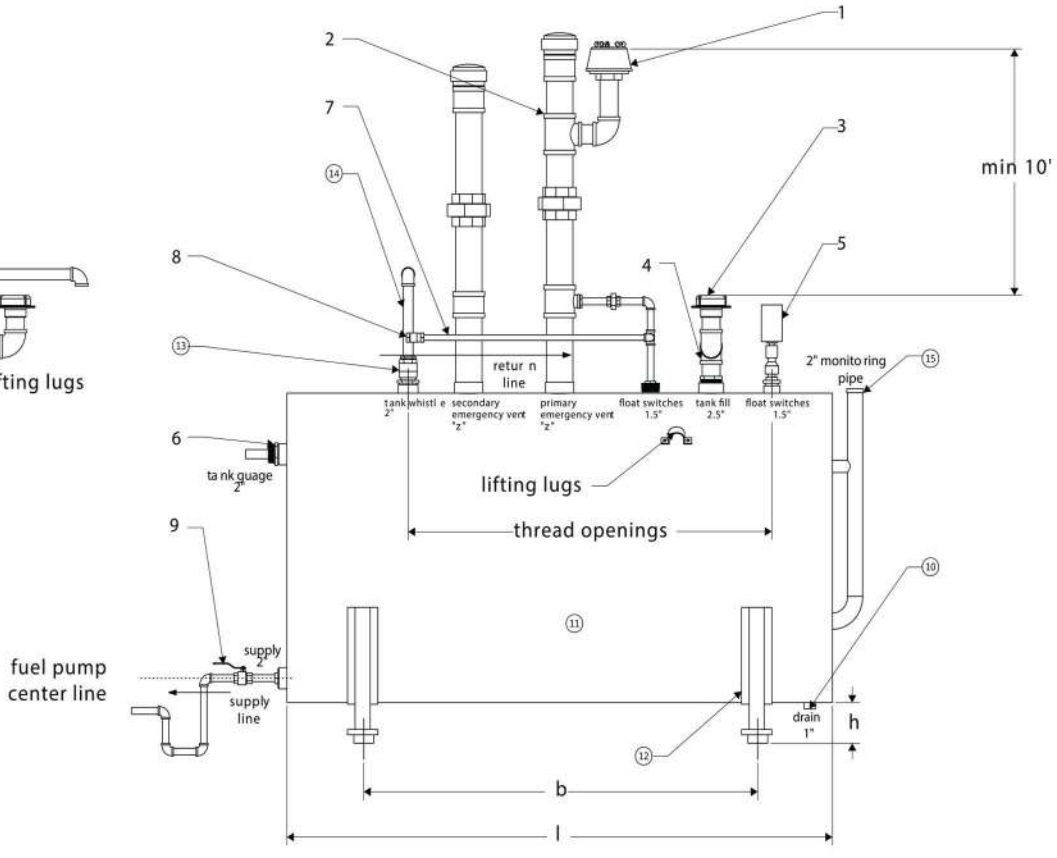
butt weld/grooved



grooved

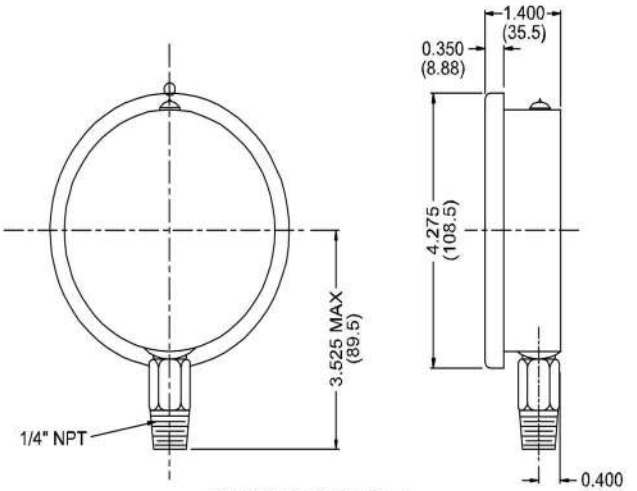
FUEL TANK



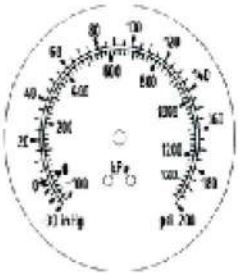


Minimum Fittings

4" Bottom Connection with optional Back Flange

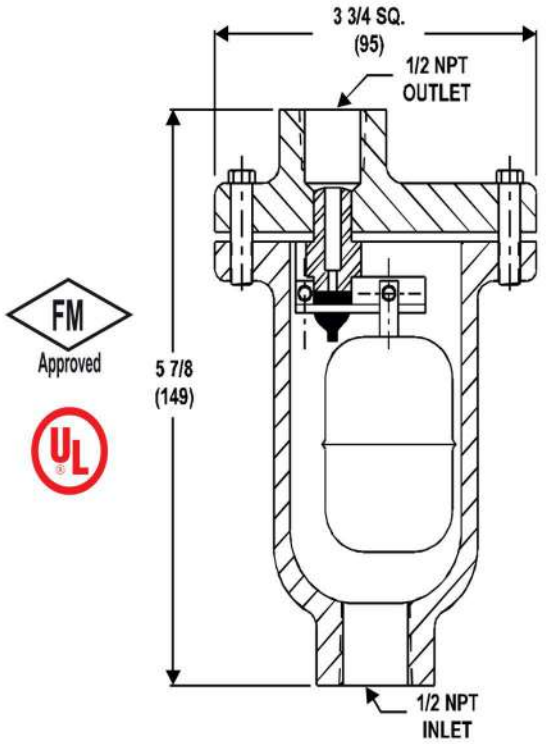


GLYCERINE FILL DISCHARGE GAUGE

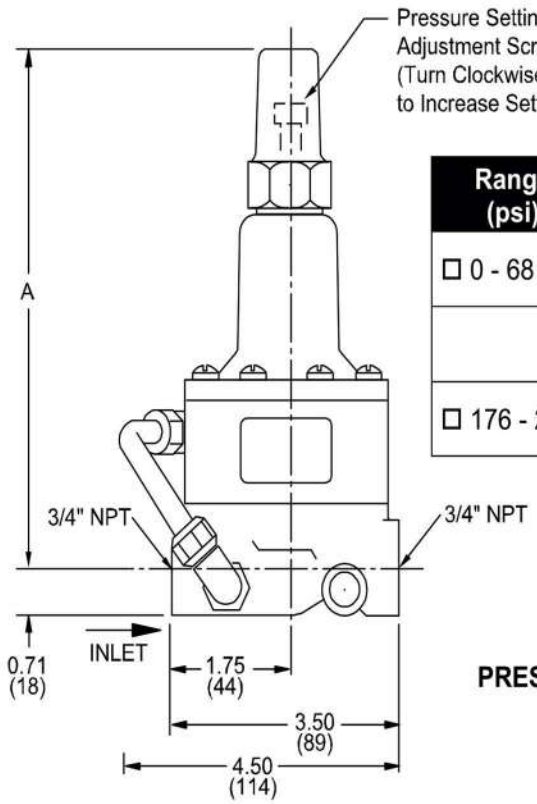


GLYCERINE FILL SUCTION GAUGE

Pump		
HSC	☐ Includes: Gauges, ARV and Pressure Relief Valve	☐ Includes: Gauges and ARV
ES	☐ Optional: Gauges and Pressure Relief Valve	☐ Includes: Gauges
VIL	☐ Optional: Gauges and Pressure Relief Valve	N/A



AIR RELEASE VALVE (ARV)



Range (psi)	Approval	
☐ 0 - 68	UL	(189)
		7.44 (189)
☐ 176 - 280	UL	(265)

PRESSURE RELIEF VALVE

NOTE:
AS PER NFPA-20 SECT. 5.11.

All dimensions are in inches (mm)

Note: Dimensions are not used for construction purposes unless certified. Data subject to change without notice.

Bourdon Tube Pressure Gauges
Standard Series
Type 111.10SP

Applications

- Fire sprinkler systems
- Suitable for all media that will not obstruct the pressure system or attack copper alloy parts

Product Features

- UL-listed (UL-393), United States and Canada
- Factory Mutual (FM) approved
- Reliable and economical

FM APPROVED

c UL us LISTED

Bourdon Tube Pressure Gauge Type 111.10SP

Specifications

Design
EN 837-1 & ASME B40.100

Sizes
4” (100 mm)

Accuracy class
± 3/2/3% of span (ASME B40.100 Grade B)

Ranges
0/80 psi (5,5 bar), retard to 250 psi (17 bar), air
0/300 psi (20 bar), water
0/400 psi (28 bar), water
0/600 psi (40 bar), water

Working pressure
Steady: 3/4 of full scale value
Fluctuating: 2/3 of full scale value
Short time: full scale value

Operating temperature
Ambient: -40°F to 140°F (-40°C to 60°C)
Media: 140°F (+60°C) maximum

Temperature error
Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.4% of span for every 18°F (10°K) rising or falling.

Bourdon tube
Material: copper alloy
C-shape

Pressure connection
Material: copper alloy
1/4“ NPT lower mount (LM)

Movement
Copper alloy

Dial
White aluminum with stop pin; black and red lettering

Pointer
Black aluminum

Case
Black polycarbonate

Window
Snap-in clear polycarbonate

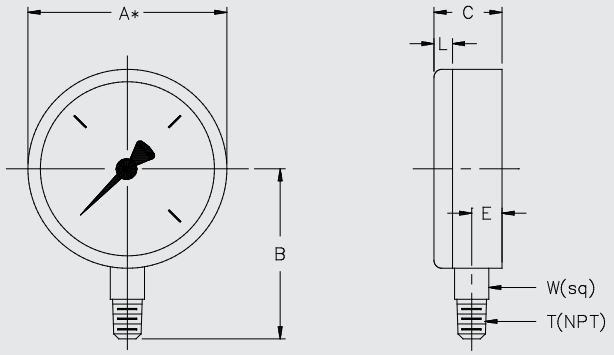
Approvals
UL listed (UL-393)
Factory Mutual

Optional Extras

(not all options are UL or FM approved)

- Brass restrictor
- Black-painted steel case
- Custom dial layout
- Other dual scales in combination with psi are available: bar, kPa, MPa, kg/cm²

Dimensions



Size		A	B	C	E	L	T	W	Weight
4”	mm	100	71	30	11.5	3.75		14	
	in	4.0	2.79	1.18	0.45	0.15	1/4”	0.55	0.35 lb.

Ordering information
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
Modifications may take place and materials specified may be replaced by others without prior notice.

WIKA Instrument Corporation
1000 Wiegand Boulevard
Lawrenceville, GA 30043-5868
Tel: 888-WIKA-USA • 770-513-8200
Fax: 770-338-5118
E-Mail: info@wika.com
www.wika.com

Bourdon tube pressure gauge
Model 111.11, welding gauge to ISO 5171

for further approvals
see page 2

Applications

- For equipment and plants for welding, cutting and allied processes

Special features

- Design per ISO 5171
- Pressure relief in case back
- Reliable and cost-effective

Bourdon tube pressure gauge model 111.11

Description

Design
ISO 5171

Nominal size in mm
40, 50, 63

Accuracy class
2.5

Scale ranges
Welding engineering standard ranges for oxygen and acetylene to ISO 5171, as well as 0 ... 1 to 0 ... 400 bar to EN 837-1

Pressure limitation
Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value

Permissible temperature
Ambient: -20 ... +60 °C
Medium: +60 °C maximum

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ±0.4 %/10 K of the span

Standard version

Process connection
Copper alloy, lower mount (LM), with restrictor
NS 40: G 1/8 B (male), 14 mm flats
NS 50,63: G 1/4 B (male), 14 mm flats

Pressure element
Copper alloy (with acetylene, max. 70 % copper content), C-type or helical type

Movement
Copper alloy

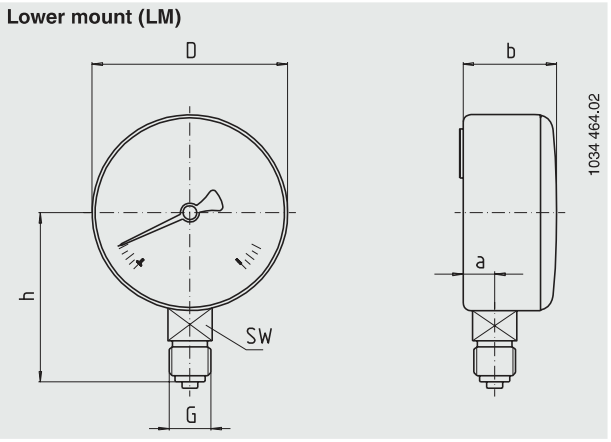
Dial
Plastic, white, with pointer stop pin
Black lettering

Pointer
Plastic, black

Dimensions in mm

Standard version

Lower mount (LM)



NS	Dimensions in mm						Weight in kg
	a	b	D	G	h ±1	SW	
40	9.5	26	39	G ⅛ B	36	14	0.09
50	9.5	28	49	G ¼ B	45	14	0.11
63	9.5	28	62	G ¼ B	53.5	14	0.15

Process connection per EN 837-1 / 7.3

Ordering information
Model / Nominal size / Scale range / Connection size / Options

Case
Steel, brass-coloured,
with pressure relief in case back

Window
Polycarbonate, snap-fitted in case

Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Case brass or stainless steel
- Slip-on bezel
- Back mount (BM)
- Acetylene pressure gauge for pressure regulators for manifold systems per ISO 7291 (BAM tested)

CE conformity

Pressure equipment directive
97/23/EC, PS > 200 bar, module A, pressure accessory

Approvals

- **GOST**, metrology/measurement technology, Russia
- **GOST-R**, import certificate, Russia
- **CRN**, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates [1)]

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

1) Option

Approvals and certificates, see website

WIKA Alexander Wiegand SE & Co. KG
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63911 Klingenberg/Germany
Tel. +49 9372 132-0
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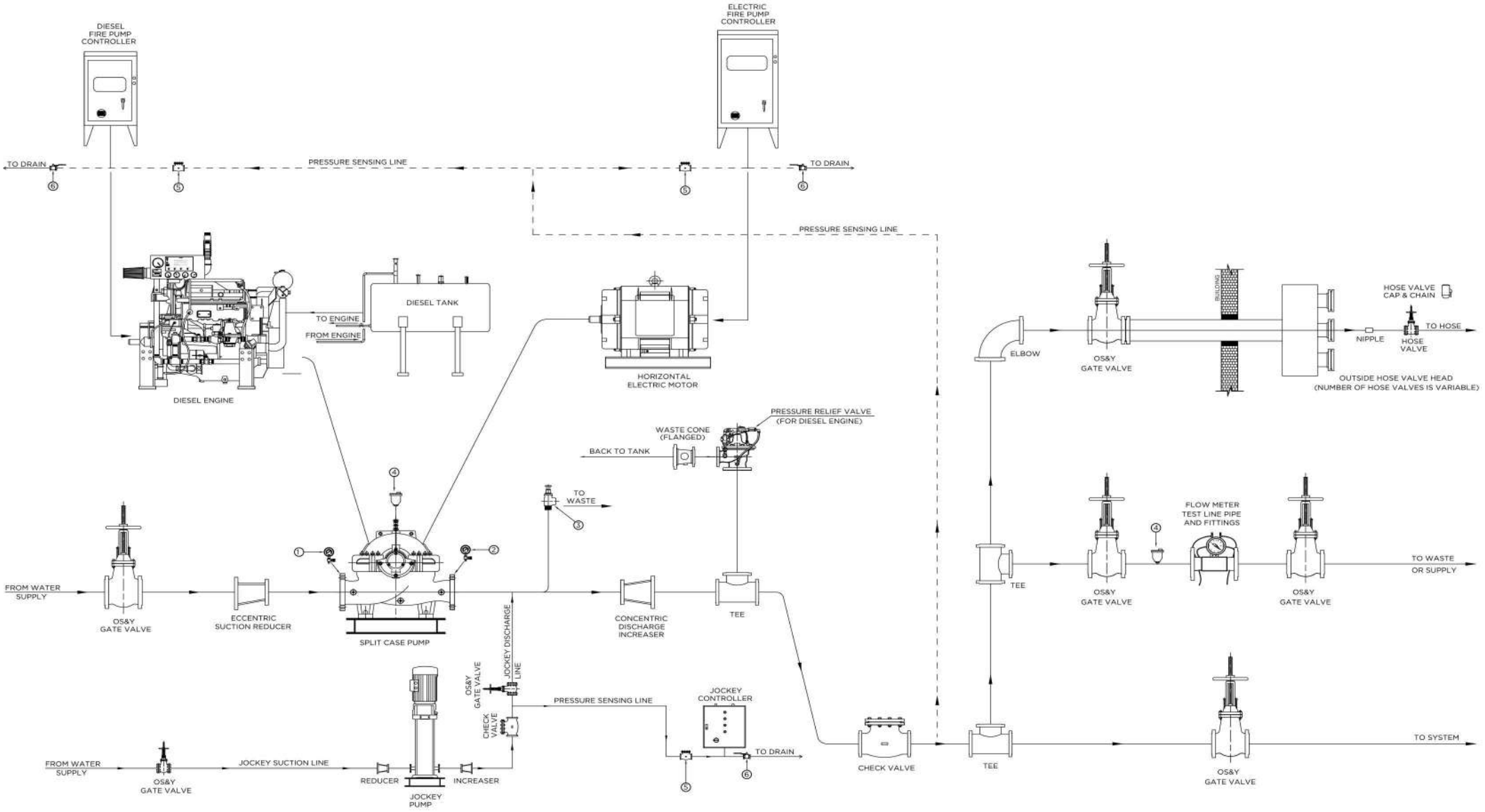
info@wika.de
www.wika.de

08/2014 GB

GENERAL ARRANGEMENT DRAWING FOR FIRE PUMPS



GENERAL ARRANGEMENT DRAWING FOR FIRE PUMPS