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ANC CATALOG



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اعتمادية عالية .. وخدمات متميزة

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INTRODUCTION



ARIF
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ANC (Arif al-Nahdi Co. LTD.)

is a Specialist company in supplying, assembling and manufacturing of safety systems with its Head Quarter at Riyadh, KSA, is one of the largest Fire Fighting Equipment facilities in the Region and has many branches over KSA.

ANC vision to develop with Wisdom and Prosper in Harmony, and continue to be the leader in the Fire Protection industry providing excellent services and superior products for many years to come.

SYSTEM TECHNOLOGY **ANC Fire Pump System Technology**

Being Local Specialist Manufacture gives ANC the Opportunity and Privilege to Develop an Innovative Pump Assembly Units, and Tailor Pump Packages to clients' specific needs.

ANC Highly Skilled Team in Assembly and Pump Packages Testing....Succeeded developing the "ANC Pump" Pre-Fabricated Fire Pump Skids, where this developed technology assure providing Compact Design Pump Sets, easily to Handle ,Install,& Maintain ,where all Pumping Elements, Drivers, Controllers are all skid Mounted, Pre-piped, Wired, & Factory tested.

ANC Pump Standard Packages included wide variety of Fire Pump Units start from **50** GPM size up to **2000** GPM, with pressure range from **7** bars up to **14** bars. This wide Range of Pumping & Head Characteristics has Made "ANC Pump" suitable in various market sectors such as; Government Buildings, Commercial, Residential Towers, Warehouses and Factories etc.



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This chapter contains all Information related to ANC Fire Pump Of all types E.D.J , E.J and D.J with different types of Pumps Split-Case and End Suction.

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Chapter1

FIRE PUMPS



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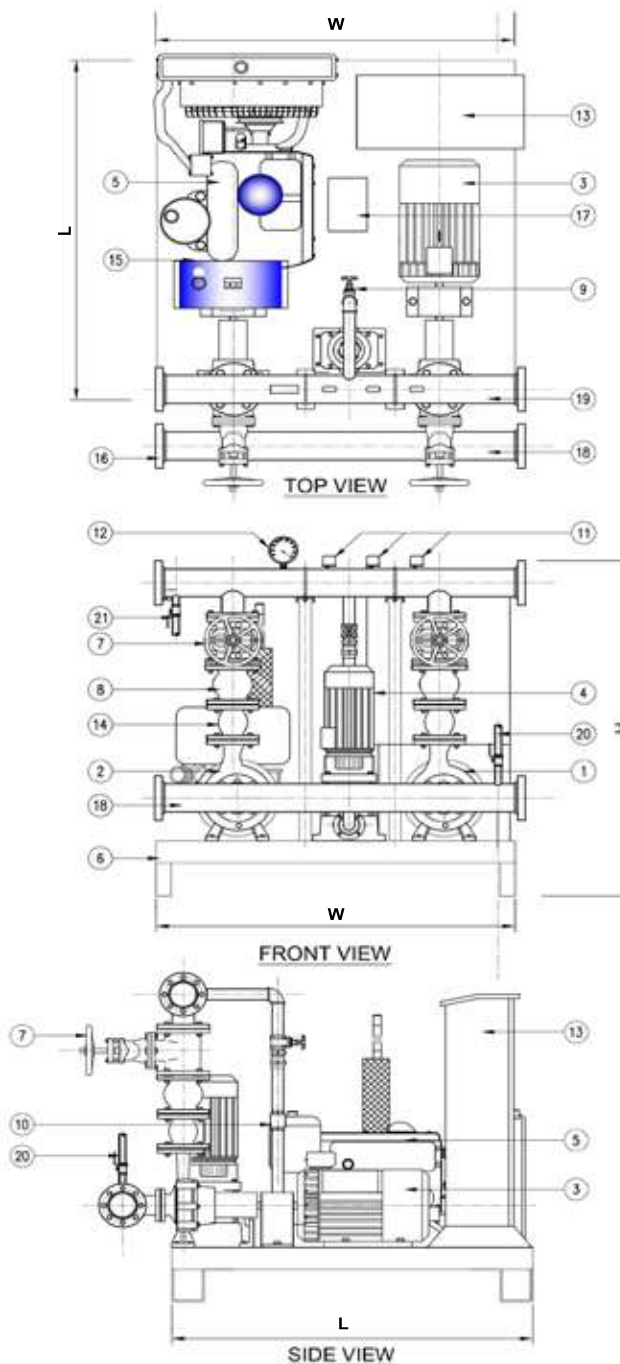
ANC Fire Pump - E.D.J Model

Consist of Main pump driven by electric Motor, stand by Diesel Pump driven by Diesel Engine, & Vertical Jockey (used as a substitute during maintenance) Pump that all are assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. Available Flow Capacities (100, 120, 150, 200, 250, 300, 350, 500, 750, 1000, 1250, 1500, 2000) GPM.

ANC Skid Model - E.D.J

Model	(GPM)	Motor (HP)	Diesel (HP)	Jockey (HP)	SUCTION	HEADER
EDJ	100	10	12	3	2.5"	2.5"
EDJ	120	12	12	3	3"	3"
EDJ	150	15	15	3	3"	3"
EDJ	200	20	27	3	4"	4"
EDJ	250	25	27	3	4"	4"
EDJ	300	30	27	3	4"	4"
EDJ	350	30	36	3	4"	4"
EDJ	500	50	55	5.5	6"	6"
EDJ	750	75	75	7.5	6"	6"
EDJ	1000	100	98	10	8"	8"
EDJ	1250	125	136	15	8"	8"
EDJ	1500	150	150	15	8"	8"
EDJ	2000	220	231	25	8"	8"

TECHNICAL DATA



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BILL OF MATERIALS			
ITEM No.	DESCRIPTION	QTY.	MATERIAL
1	MAIN FIRE PUMP, ELECTRICAL MOTOR DRIVEN, MODEL :	01	--
2	STANDBY FIRE PUMP, DIESEL ENGINE DRIVEN MODEL :	01	--
3	ELECTRICAL MOTOR.	01	--
4	JOCKEY PUMP,	01	--
5	DIESEL ENGINE	01	--
6	BASE (FRAME AND PLATE)	01	MILD STEEL
7	OS&Y GATE VALVE-FLANGE TYPE	02	CAST IRON
8	CHECK VALVE - FLANGE TYPE	02	CAST IRON
9	GATE VALVE - THREAD TYPE	01	BRASS
10	CHECK VALVE - THREAD TYPE	01	BRASS
11	PRESSURE SWITCH	03	--
12	PRESSURE GAUGE	01	--
13	CONTROL PANEL	01	--
14	FLEXIBLE JOINT	02	RUBBER
15	DIESEL TANK	01	--
16	SLIP-ON FLANGE	04	--
17	BATTERY BOX	01	--
18	SUCTION MANIFOLD	01	--
19	DISCHARGE MANIFOLD	01	--
20	PRIMING CONNECTION FOR UNDERGROUND WATER TANK (NEGATIVE SUCTION PUMP)	01	--
21	DRAINAGE PIPE	01	--



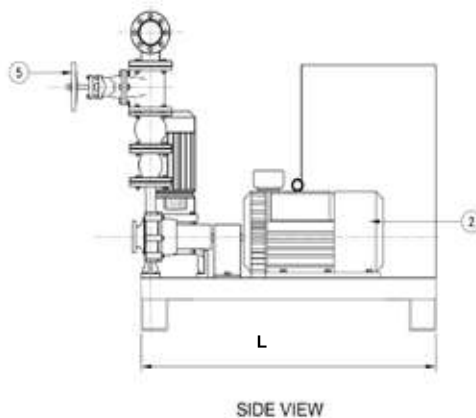
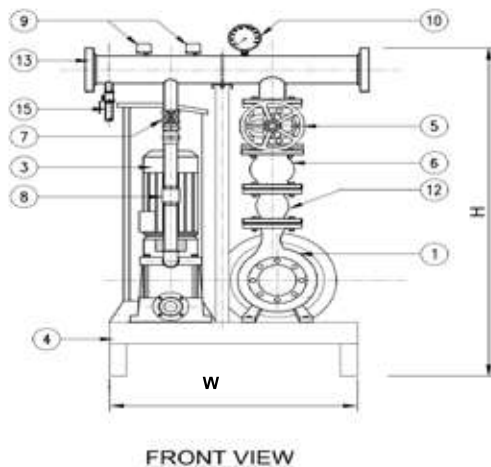
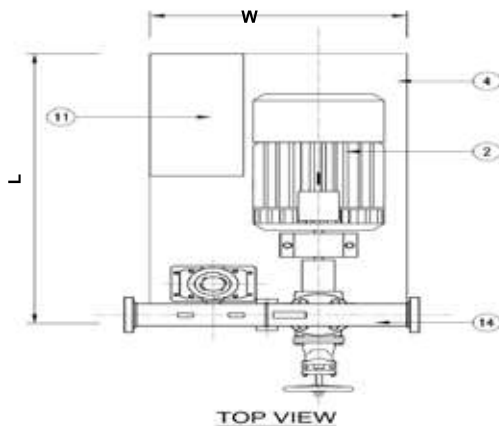
ANC Fire Pump - E. J Model

Consist of Main pump driven by Electrical Motor, & Vertical Jockey (used as a substitute during maintenance) Pump that all are assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. Available Flow Capacities (100, 120, 150, 200, 250, 300, 350, 500, 750, 1000, 1250, 1500, 2000) GPM.

ANC Skid Model - E. J

Model	(GPM)	Motor (HP)	Jockey (HP)	HEADER
E J	100	10	3	2.5"
E J	120	12	3	2.5"
E J	150	15	3	3"
E J	200	20	3	4"
E J	250	25	3	4"
E J	300	30	3	4"
E J	350	30	3	4"
E J	500	50	5.5	6"
E J	750	75	7.5	6"
E J	1000	100	10	8"
E J	1250	125	15	8"
E J	1500	150	15	8"
E J	2000	220	25	8"

TECHNICAL DATA



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BILL OF MATERIALS

ITEM No.	DESCRIPTION	QTY.	MATERIAL
1	MAIN FIRE PUMP, ELECTRICAL MOTOR DRIVEN, MODEL :	01	--
2	ELECTRICAL MOTOR.	01	--
3	JOCKEY PUMP,	01	--
4	BASE (FRAME AND PLATE)	01	MILD STEEL
5	OS&Y GATE VALVE-FLANGE TYPE	01	CAST IRON
6	CHECK VALVE - FLANGE TYPE	01	CAST IRON
7	GATE VALVE - THREAD TYPE	01	BRASS
8	CHECK VALVE - THREAD TYPE	01	BRASS
9	PRESSURE SWITCH	02	--
10	PRESSURE GAUGE	01	--
11	CONTROL PANEL	01	--
12	FLEXIBLE JOINT	01	RUBBER
13	SLIP-ON FLANGE	02	--
14	DISCHARGE MANIFOLD	01	--
15	DRAINAGE PIPE	01	--



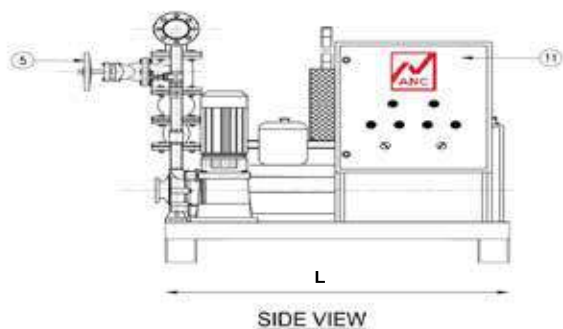
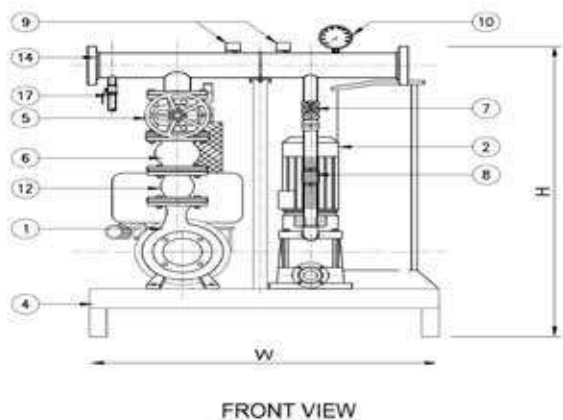
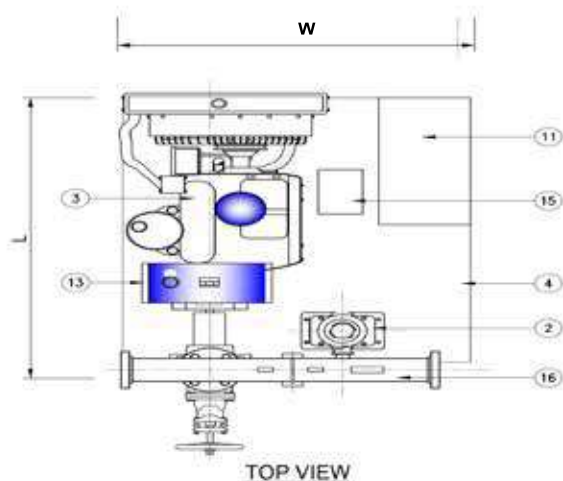
ANC Fire Pump - D.J Model

Consist of Main pump driven
by Diesel Engine, & Vertical Jockey (used
as a substitute during maintenance) Pump
that all are assembled with discharge line
accessories, as well as connected with
Skid Mounted Control Panel. Available
Flow Capacities (50, 80, 100, 120, 150,
200, 250, 300, 350, 500, 750, 1000, 1250, 1500
, 2000) GPM.

ANC Skid Model - D.J

Model	(GPM)	Diesel (HP)	Jockey (HP)	HEADER
DJ	50	9.5	3	2"
DJ	80	10	3	2"
DJ	100	12	3	2.5"
DJ	120	12	3	2.5"
DJ	150	15	3	3"
DJ	200	27	3	4"
DJ	250	27	3	4"
DJ	300	27	3	4"
DJ	350	36	3	4"
DJ	500	55	5.5	6"
DJ	750	75	7.5	6"
DJ	1000	98	10	8"
DJ	1250	136	15	8"
DJ	1500	150	15	8"
DJ	2000	231	25	8"

TECHNICAL DATA



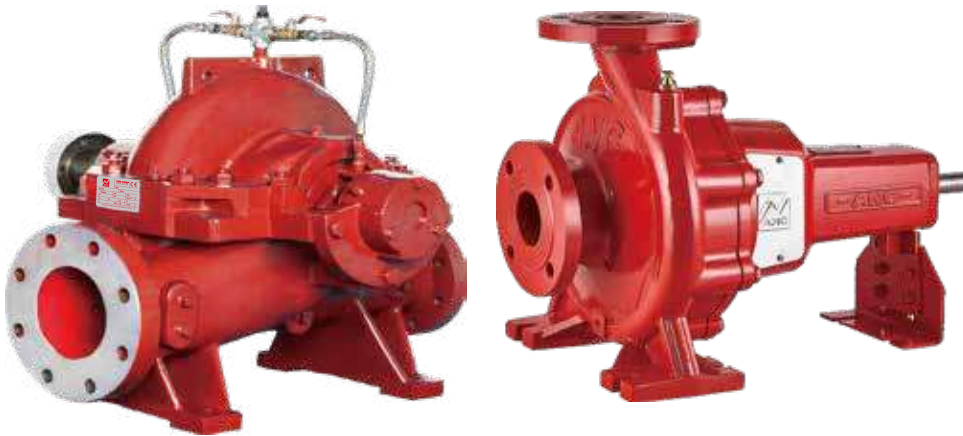
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KINGDOM OF SAUDI ARABIA

BILL OF MATERIALS

ITEM No.	DESCRIPTION	QTY.	MATERIAL
1	MAIN FIRE PUMP, DIESEL ENGINE DRIVEN MODEL :	01	--
2	JOCKEY PUMP,	01	--
3	DIESEL ENGINE	01	--
4	BASE (FRAME AND PLATE)	01	MILD STEEL
5	OS&Y GATE VALVE-FLANGE TYPE	01	CAST IRON
6	CHECK VALVE - FLANGE TYPE	01	CAST IRON
7	GATE VALVE - THREAD TYPE	01	BRASS
8	CHECK VALVE - THREAD TYPE	01	BRASS
9	PRESSURE SWITCH	02	--
10	PRESSURE GAUGE	01	--
11	CONTROL PANEL	01	--
12	FLEXIBLE JOINT	02	RUBBER
13	DIESEL TANK	01	--
14	SLIP-ON FLANGE	02	--
15	BATTERY BOX	01	--
16	DISCHARGE MANIFOLD	01	--
17	DRAINAGE PIPE	01	--



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This chapter includes all Information related
to ANC Pumps Of all types Split - Case
and End - Suction.

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Chapter2

PUMPS



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SECTION 1

SPLIT – CASE

This section contain all information related to Split - Case pumps includes technical data, matrial descrption and dimen-tions.



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DESCRIPTION

- ◆ Axially split volute pump casing design
- ◆ Pump case with anti-corrosive coating HT250
- ◆ Double-entry radial impeller in AISI104 or HT250
- ◆ Shaft protecting sleeves in the seal area
- ◆ Mechanical seal and gland packing are both available
- ◆ Grease-packed rolling element bearings sealed for life
- ◆ Reliable complete with motor or diesel for fire fightingetc.



PSC

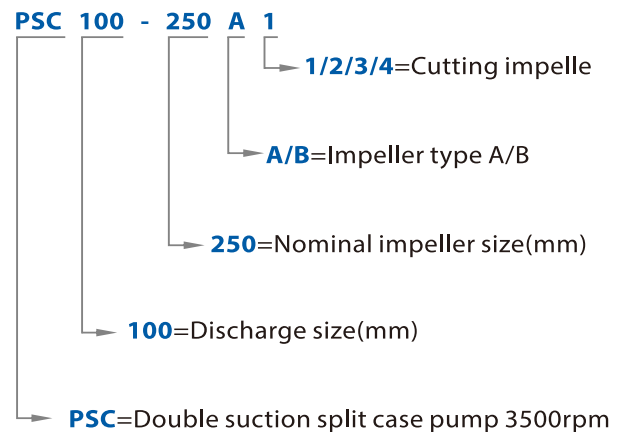
Double suction split case pump

USING LIMITS

- ◆ Liquid temperature between -10 C and + 120 C
- ◆ Ambient temperature between 0 C and + 50 C
- ◆ Max.working pressure 25 bar / continuous S1

MODEL CODE/

or example/



TECHNICAL DATA

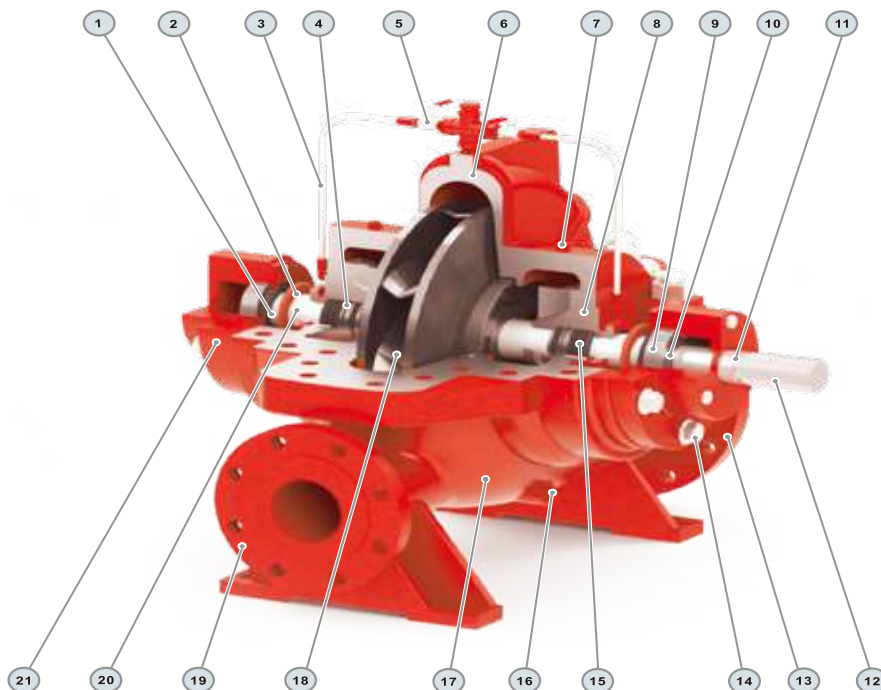
PS 60 Hz n=3500 1/min

MODEL	Flow Range m³/h	Head Range m	Power Range kw	DN mm
80-210A1	131-164-197	60.5-55-50	26.8-29.9-33.4	125x80
80-210A2	121-151-181	52-47.5-42.2	21.6-24.1-26.1	125x80
80-210A3	115-144-173	44-39-35	17.8-19-21.1	125x80
80-210A4	110-137-164	37-33.5-27.7	14.7-16-16.7	125x80
80-210B1	107-134-160	55.5-51-46	20.5-22.9-25.1	125x80
80-210B2	106-133-159	47.7-43.5-37	17.6-19.3-20	125x80
80-210B3	100-124-149	40-36-30	14.4-15.6-16.5	125x80
80-210B4	91-113-136	35-31-27	12.1-12.9-13.9	125x80
80-270A1	166-207-248	97.5-90-79	57-64.6-70.8	125x80
80-270A2	156-194-233	83.5-77-69	46.6-52.6-58.1	125x80
80-270A3	147-184-220	70-63.5-55	37.5-41.8-44.6	125x80
80-270A4	138-173-198	56.5-50-45	28.7-31.4-32.8	125x80
80-270B1	137-171-205	91-82.5-72.5	44.6-49.9-54.1	125x80
80-270B2	122-153-184	79.5-71.5-67	35.6-39.1-44.7	125x80
80-270B3	115-144-173	66.8-60-53	28.5-31.3-33.7	125x80
80-270B4	110-137-164	54.5-49-42	22.4-24.5-25.9	125x80
100-250A1	230-288-346	83-75-67	64.2-70.9-78.4	150x100
100-250A2	219-274-328	69-63-55	51.9-58.3-62.3	150x100
100-250A3	209-261-313	59-52-46.5	43.5-46.8-51.5	150x100
100-250A4	193-240-290	49-45-37	33.9-37.7-39.2	150x100
100-250B1	196-245-294	75-68-59	50-55.6-59.8	150x100
100-250B2	180-223-268	65-59-51	40.6-44.7-47.9	150x100
100-250B3	165-205-246	56-51-44	32.9-36.8-38.8	150x100
100-250B4	150-190-227	48-43-38	26.4-29.1-31.1	150x100
100-310A1	294-367-440	135-123-105	137.7-153.8-164	150x100
100-310A2	268-335-402	116-106-92	108-121.4-131	150x100
100-310A3	242-302-363	98-90-80	82.7-93.5-102.5	150x100
100-310A4	182-227-333	86-81-63	62-68-76	150x100
100-310B1	226-283-340	130-119-105	105-117.4-128.5	150x100
100-310B2	208-260-310	111-103-90	81.8-93.7-100	150x100
100-310B3	200-250-300	92-84-74	65.8-72.8-80.5	150x100
100-310B4	187-234-281	78-69-60	53.1-57.1-61.2	150x100
125-230A1	426-541-639	68-60-48	93.8-101.8-101.9	200x125
125-230A2	392-490-585	60-52-43.5	78.1-82.1-84.4	200x125
125-230A3	363-454-544	50-43.5-35	63.4-65.1-66.6	200x125
125-230A4	340-425-489	40-34-30	49.4-50.8-52.5	200x125
125-230B1	377-472-566	68-60.5-51	84.2-92-101.5	200x125
125-230B2	349-436-523	60-53-44	70.3-74.8-77.2	200x125
125-230B3	328-410-493	52-45-37	60.1-61.3-63.3	200x125
125-230B4	305-382-458	42.5-37-30	47.1-49.9-49.9	200x125
125-290A1	428-535-642	117-108-95	166-187-202	200x125
125-290A2	397-497-596	97-88-75	131-145-153	200x125
125-290A3	363-454-544	80-72-62	101-111-117	200x125
125-290A4	323-403-484	65-57-47	74.7-80.2-80.5	200x125
125-290B1	383-480-575	113-100-85.5	145-157-166	200x125
125-290B2	348-436-523	93.5-83.5-70	112-121-126	200x125
125-290B3	308-385-462	78-70-60	84.5-93-96.9	200x125
125-290B4	274-342-410	60-55-47	59.6-67.4-70	200x125

PS 50 Hz n=2900 1/min

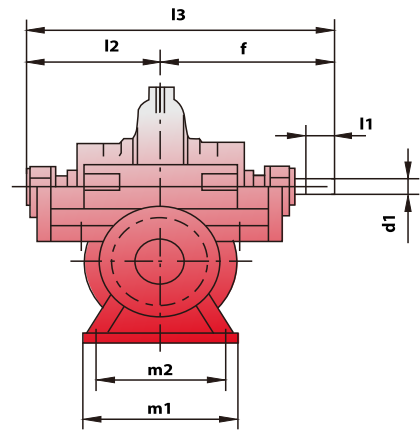
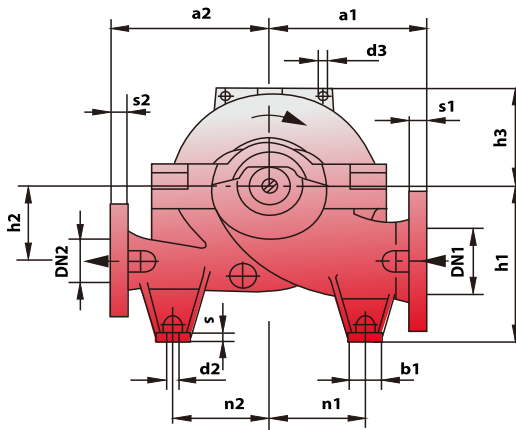
MODEL	Flow Range m³/h	Head Range m	Power Range kw	DN mm
80-210A1	131-164-197	60.5-55-50	26.8-29.9-33.4	125x80
80-210A2	121-151-181	52-47.5-42.2	21.6-24.1-26.1	125x80
80-210A3	115-144-173	44-39-35	17.8-19-21.1	125x80
80-210A4	110-137-164	37-33.5-27.7	14.7-16-16.7	125x80
80-210B1	107-134-160	55.5-51-46	20.5-22.9-25.1	125x80
80-210B2	106-133-159	47.7-43.5-37	17.6-19.3-20	125x80
80-210B3	100-124-149	40-36-30	14.4-15.6-16.5	125x80
80-210B4	91-113-136	35-31-27	12.1-12.9-13.9	125x80
80-270A1	166-207-248	97.5-90-79	57-64.6-70.8	125x80
80-270A2	156-194-233	83.5-77-69	46.6-52.6-58.1	125x80
80-270A3	147-184-220	70-63.5-55	37.5-41.8-44.6	125x80
80-270A4	138-173-198	56.5-50-45	28.7-31.4-32.8	125x80
80-270B1	137-171-205	91-82.5-72.5	44.6-49.9-54.1	125x80
80-270B2	122-153-184	79.5-71.5-67	35.6-39.1-44.7	125x80
80-270B3	115-144-173	66.8-60-53	28.5-31.3-33.7	125x80
80-270B4	110-137-164	54.5-49-42	22.4-24.5-25.9	125x80
100-250A1	230-288-346	83-75-67	64.2-70.9-78.4	150x100
100-250A2	219-274-328	69-63-55	51.9-58.3-62.3	150x100
100-250A3	209-261-313	59-52-46.5	43.5-46.8-51.5	150x100
100-250A4	193-240-290	49-45-37	33.9-37.7-39.2	150x100
100-250B1	196-245-294	75-68-59	50-55.6-59.8	150x100
100-250B2	180-223-268	65-59-51	40.6-44.7-47.9	150x100
100-250B3	165-205-246	56-51-44	32.9-36.8-38.8	150x100
100-250B4	150-190-227	48-43-38	26.4-29.1-31.1	150x100
100-310A1	294-367-440	135-123-105	137.7-153.8-164	150x100
100-310A2	268-335-402	116-106-92	108-121.4-131	150x100
100-310A3	242-302-363	98-90-80	82.7-93.5-102.5	150x100
100-310A4	182-227-333	86-81-63	62-68-76	150x100
100-310B1	226-283-340	130-119-105	105-117.4-128.5	150x100
100-310B2	208-260-310	111-103-90	81.8-93.7-100	150x100
100-310B3	200-250-300	92-84-74	65.8-72.8-80.5	150x100
100-310B4	187-234-281	78-69-60	53.1-57.1-61.2	150x100
125-230A1	426-541-639	68-60-48	93.8-101.8-101.9	200x125
125-230A2	392-490-585	60-52-43.5	78.1-82.1-84.4	200x125
125-230A3	363-454-544	50-43.5-35	63.4-65.1-66.6	200x125
125-230A4	340-425-489	40-34-30	49.4-50.8-52.5	200x125
125-230B1	377-472-566	68-60.5-51	84.2-92-101.5	200x125
125-230B2	349-436-523	60-53-44	70.3-74.8-77.2	200x125
125-230B3	328-410-493	52-45-37	60.1-61.3-63.3	200x125
125-230B4	305-382-458	42.5-37-30	47.1-49.9-49.9	200x125
125-290A1	428-535-642	117-108-95	166-187-202	200x125
125-290A2	397-497-596	97-88-75	131-145-153	200x125
125-290A3	363-454-544	80-72-62	101-111-117	200x125
125-290A4	323-403-484	65-57-47	74.7-80.2-80.5	200x125
125-290B1	383-480-575	113-100-85.5	145-157-166	200x125
125-290B2	348-436-523	93.5-83.5-70	112-121-126	200x125
125-290B3	308-385-462	78-70-60	84.5-93-96.9	200x125
125-290B4	274-342-410	60-55-47	59.6-67.4-70	200x125

MTERIAL DESCRIPTION



No.	Description	Material	No	Description	Material	No	Description	Material
1	Block ring	Rubber	8	Seal house	Cast iron	15	Gland seal(Mechanical Seal)	Synthepak(SiC Carbon)
2	O-ring	Rubber	9	Bearing	Ball Bearing	16	Release Valve	Brass
3	Flushing pipe	SS304	10	Lock washer	Steel	17	Pump Case	Cast iron
4	Packing ring	Carbon	11	Shaft	SS304/45# Steel	18	Impeller	SS304/Cast iron
5	Valve	Brass	12	Shaft Key	Iron	19	Output flange	Cast iron
6	Pump cover	Cast iron	13	Input flange	Cast iron	20	Shaft sleeve	SS304
7	Vent plug	Brass	14	Bolt	Steel	21	Bearing house	Cast iron

DIMENSIONS AND WEIGHT



MODEL	DIMENSIONS/ mm																						kgs
	DN1	DN2	s1	s2	a1	a2	d3	f	h1	h2	h3	l2	l3	b1	d2	m1	m2	n1	n2	s	d1	l1	
80-210	125	80	34	29	300	300	19	415	315	140	168	300	715	70	17.5	320	270	170	170	20	35	80	185
80-270	125	80	34	29	300	300	19	415	315	140	190	300	715	70	17.5	320	270	170	170	20	35	80	195
80-370	125	80	34	29	330	330	19	415	315	140	225	300	715	70	17.5	320	270	170	170	20	35	80	205
100-250	150	100	37	32	330	330	19	415	355	170	195	300	715	70	17.5	320	270	200	200	20	35	80	210
100-310	150	100	37	32	330	330	19	415	355	170	225	300	715	70	17.5	320	270	200	200	20	35	80	225
100-375	150	100	37	32	370	370	19	415	355	170	260	300	715	70	17.5	320	270	200	200	20	35	80	245
125-230	200	125	41	35	370	370	19	515	400	200	210	366	881	70	17.5	390	340	225	225	20	45	100	250
125-290	200	125	41	35	370	370	19	515	400	200	230	366	881	70	17.5	390	340	225	225	20	45	100	275
125-365	200	125	41	35	370	370	19	515	400	200	260	366	881	70	17.5	390	340	225	225	20	45	100	300
125-500	200	125	41	35	450	450	19	515	400	200	305	366	881	70	17.5	390	340	280	280	20	45	100	335
150-290	200	150	41	37	400	400	19	515	400	200	245	366	881	70	17.5	390	340	225	225	20	45	100	350
150-360	200	150	41	37	400	400	19	515	400	200	265	366	881	70	17.5	390	340	225	225	20	45	100	360
150-460	200	150	41	37	450	450	19	590	400	200	305	399	989	70	17.5	480	430	280	280	20	55	125	440
150-605	200	150	41	37	600	500	19	590	500	300	370	399	989	70	17.5	480	430	350	380	20	55	125	650
200-320	250	200	48	41	450	450	24.5	590	500	240	285	399	989	70	17.5	480	430	280	280	20	55	125	450
200-420	250	200	48	41	500	500	24.5	590	500	240	310	399	989	70	17.5	480	430	280	280	20	55	125	520
200-520	250	200	48	41	600	500	24.5	655	560	300	370	464	1119	70	22	480	400	350	350	26	65	140	840
200-670	250	200	48	41	650	550	24.5	655	600	350	430	464	1119	100	22	480	400	350	350	26	65	140	990
250-370	300	250	33	32	500	500	12.5	655	600	300	320	464	1119	100	22	480	400	350	350	26	65	140	665
250-480	300	250	51	48	550	550	12.5	730	600	300	355	515	1245	100	22	600	520	350	350	26	75	160	830
250-600	300	250	51	48	650	550	12.5	730	630	350	415	515	1245	100	22	600	520	350	350	26	75	160	1215
300-300	350	300	36	33	550	500	24.5	655	630	300	360	464	1119	100	22	480	400	350	350	26	65	140	630
300-435	400	300	38	33	650	550	24.5	730	670	350	365	515	1245	100	22	600	520	350	350	26	75	160	905
300-560	400	300	57	51	700	650	24.5	810	710	350	430	585	1395	100	22	600	520	475	475	26	85	180	1425
300-700	400	300	57	51	750	650	24.5	810	750	400	480	585	1395	100	22	600	520	475	475	26	85	180	1690
350-360	400	350	38	36	650	550	24.5	730	670	350	410	515	1245	100	22	600	520	350	350	26	75	160	865
350-430	450	350	41	36	750	650	24.5	810	750	400	465	585	1395	100	22	600	520	475	475	26	85	180	1285
350-510	400	350	38	36	700	650	24.5	810	750	400	420	585	1395	100	22	600	520	475	475	26	85	180	1395



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AL-NAHDI
CO.LTD.



SECTION 2

END – SUCTION

This section contains all information related to End - Suction pumps includes technical data, material description and dimensions.



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DESCRIPTION

- ◆ According to NFPA20, centrifugal shall be of the overhung impeller design with close or separate couple end suction type
- ◆ Pump capacities are based on the calculate system demand
- ◆ Fire pump shutoff head should not exceed 140% of the nominal value
- ◆ Recommended the maximum system demand flow correlate to a point on pump curve between 90% to 140% of the pump capacity

TECHNICAL SHEET/

Model	PSM
Capacity	0-1000 m ³ /h
Head	0-164 m
DN	32-150 mm
Speed	3500 rpm
T max	120 °C
Power	1.5-315 kW
Casing	Grey cast iron
Impeller	Cast iron/AISI 304/Brass
Shaft	AISI 304
Shaft seal	Mechanical Seal
Bearing	Grease lubrication rolling bearing

Electric

Electric pump to primarily provide flow and pressure in the system



PS(M)
n≈ 3500 rpm

MODEL CODE/

For example/

PS 50 - 200 / 220

PS = End suction pump only
50 = Discharge (mm)
200 = Nominal impeller size (mm)
220 = Rate of power (kw) x 10

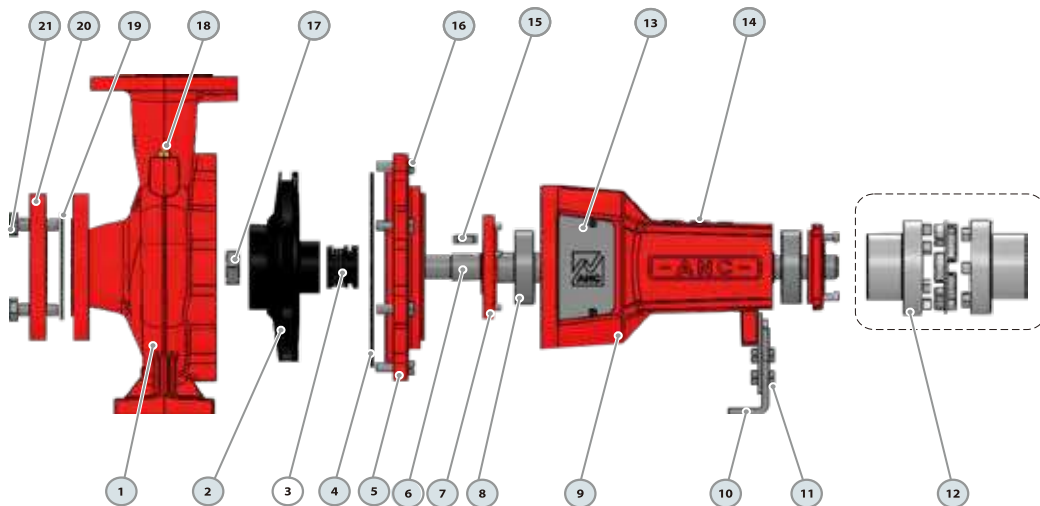
TECHNICAL DATA

60 Hz n=3500 1/min

MODEL	DN	Implr dia.	Power		Q=DELIVERY/ H=Head (m)															
					us gpm	0	25	50	75	100	120	150	200	250	300	350	400	450	500	600
					l/min	0	95	190	283	383	450	567	750	950	1133	1317	1517	1700	1900	2267
					m³/h	0	5.7	11.4	17	23	27	34	45	57	68	79	91	102	114	136
mm	mm	kw	hp																	
PS 32-200/55	50x32	173	5.5	7.5	60	59.5	58	54	50	46	-	-	-	-	-	-	-	-	-	
PS 32-200/75	50x32	191	7.5	10	75	74.5	74	72.5	70	67.3	62	-	-	-	-	-	-	-	-	
PS 32-200/75H(92)	50x32	197	9.2	12.5	79	78.5	78	76.5	73.5	71.3	64.5	-	-	-	-	-	-	-	-	
PS 32-200/110	50x32	208	11	15	90	88	84.3	80	76	72	66	-	-	-	-	-	-	-	-	
PS 32-200/150	50x32	214	15	20	97	95	91.5	87.2	83	79	73.5	-	-	-	-	-	-	-	-	
PS 40-200/110	65x40	191	11	15	78	-	-	75.5	74	72	69	59	38	-	-	-	-	-	-	
PS 40-200/150	65x40	208	15	20	88.5	-	-	83.5	81.5	79	76	67	47	-	-	-	-	-	-	
PS 40-200/185	65x40	214	18.5	25	94	-	-	89	87	84.5	81.5	73	51	-	-	-	-	-	-	
PS 40-250/185	65x40	216	18.5	25	95	-	-	95	94	92.5	88	74	-	-	-	-	-	-	-	
PS 40-250/220	65x40	228	22	30	106	-	-	105	104	103.5	99	86	-	-	-	-	-	-	-	
PS 40-250/300	65x40	241	30	40	120	-	-	120	119	117	116	108	-	-	-	-	-	-	-	
PS 40-250/370	65x40	267	37	50	144	-	-	144	143	142	139	134	-	-	-	-	-	-	-	
PS 40-250/450	65x40	282	45	60	160	-	-	160	160	159	158	154	-	-	-	-	-	-	-	
PS 50-200/150	65x50	190	15	20	68.5	-	-	-	-	-	65	62	58	53	45	-	-	-	-	
PS 50-200/185	65x50	195	18.5	25	79	-	-	-	-	-	77	74	71	66	59	47	-	-	-	
PS 50-200/220	65x50	208	22	30	89.5	-	-	-	-	-	88	85	81.5	76	68	57	-	-	-	
PS 50-200/300	65x50	214	30	40	95.5	-	-	-	-	-	92	90	87	81	74	63	-	-	-	
PS 50-250/370	65x50	236	37	50	114	-	-	-	-	-	111	108	104	98	92	84	-	-	-	
PS 50-250/450	65x50	254	45	60	132	-	-	-	-	-	129	125.5	122	117	110	102	-	-	-	
PS 50-250/550	65x50	267	55	75	146	-	-	-	-	-	143	140	136	132	125	116	-	-	-	
PS 50-250/750	65x50	282	75	100	164	-	-	-	-	-	162	158	154	148	141	134	-	-	-	
PS 65-200/220	80x65	187	22	30	64.8	-	-	-	-	-	-	-	63.5	62	61	58.5	56	52.5	-	
PS 65-200/300	80x65	203	30	40	80	-	-	-	-	-	-	-	79	78	77	74.5	72	70	59	
PS 65-200/370	80x65	214	37	50	92	-	-	-	-	-	-	-	89.5	88.5	87	85	83	80	69	

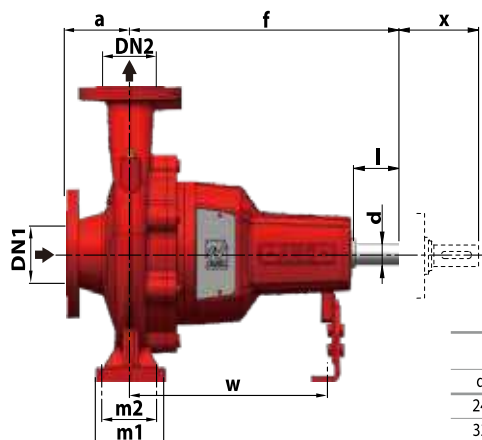
MODEL	DN mm	Implr dia. mm	Power kw hp		Q=DELIVERY/ H=Head (m)															
					us gpm 0	250	400	500	600	750	850	950	1000	1250	1350	1500	1750	2000	2500	3000
					l/min 0	950	1517	1900	2267	2833	3217	3600	3783	4733	5100	5683	6617	7567	9467	11350
					m³/h 0	57	91	114	136	170	193	216	227	284	306	341	397	454	568	681
PS 65-250/450	80x65	217	45	60	102	98	94.5	90	83	-	-	-	-	-	-	-	-	-	-	-
PS 65-250/550	80x65	241	55	75	122	120	114.5	111	104	85	-	-	-	-	-	-	-	-	-	-
PS 65-250/750	80x65	265	75	100	141	141	134.5	132	123	105	86	64	-	-	-	-	-	-	-	-
PS 65-250/900	80x65	282	90	125	151	150	144.5	141	133	115	95	74	-	-	-	-	-	-	-	-
PS 80-200/450	100x80	205	45	60	88	86.7	86	84	80	72	62	49	-	-	-	-	-	-	-	-
PS 80-200/550	100x80	215	55	75	94.5	94.5	94.5	92	89	82	76	66	-	-	-	-	-	-	-	-
PS 80-200/750	100x80	230	75	100	108.5	108.5	108.5	106	103	96.5	90	80	-	-	-	-	-	-	-	-
PS 80-250/550	100x80	224	55	75	98	97	95.6	95	92	86	78	67	-	-	-	-	-	-	-	-
PS 80-250/750	100x80	245	75	100	124	123	121.6	119	116	110	103	94.5	89	-	-	-	-	-	-	-
PS 80-250/900	100x80	265	90	125	144	143	141.6	140	137	130	122	114	108	-	-	-	-	-	-	-
PS 80-250/1100	100x80	272	110	150	153	152	150.6	149	146	140	132	123	118	-	-	-	-	-	-	-
PS 100-200/550	125x100	200	55	75	77	76	75.5	76	75	73	72	70	70	62.3	59	-	-	-	-	-
PS 100-200/750	125x100	216	75	100	91	91	90.5	89.7	88	86	84	82	81	71.7	68.5	56	-	-	-	-
PS 100-200/900	125x100	224	90	125	100	100	99.5	98	97	95	93	91	90	80.7	77.5	65	-	-	-	-
PS 100-250/900	125x100	249	90	125	118	-	-	116	115.5	114	112	111	110	104	102	95	-	-	-	-
PS 100-250/1100	125x100	266	110	150	138	-	-	136	135	133	132	131	130	124	121	114	-	-	-	-
PS 100-250/1320	125x100	272	132	180	148	-	-	146	145	144	142	141	140	134	132	125	-	-	-	-
PS 125-200/750	150x125	212	75	100	80	-	-	77	76	74.5	73	72	71	67	65	60	-	-	-	-
PS 125-200/900	150x125	220	90	125	87	-	-	84	83	81.5	80	78.5	78	73.5	71.5	67.5	60	-	-	-
PS 125-200/1100	150x125	227	110	150	97	-	-	94	93	92	90.5	89	88	84	83.5	78.5	71	-	-	-
PS 125-200H/1100	150x125	200	110	150	74	-	-	74.5	74	74	73	73	72.5	70.8	70.4	69	66	62.5	53	-
PS 125-200H/1320	150x125	216	132	180	84	-	-	84	84	83.5	83	82.5	82	80.8	80.4	78.5	76	72	63	-
PS 125-200H/1600	150x125	232	160	220	98	-	-	97.5	97.5	97.5	97	97	96.5	94.8	94.4	93	90	87	78	66
PS 125-250/900	150x125	232	90	125	96	-	-	-	-	-	-	96	96	94	93.5	92	88.5	84	65	-
PS 125-250/1100	150x125	240	110	150	103	-	-	-	-	-	-	102.5	102	101	100.5	99	97	93	79	-
PS 125-250/1320	150x125	253	132	180	118	-	-	-	-	-	-	118	117.7	116	115.5	114.5	112	106	91	-
PS 125-250/1600	150x125	272	160	220	136	-	-	-	-	-	-	136	135.5	135	133.5	133	130	125	110	-
PS 150-200/1320	200x150	220	132	180	80.2	-	-	-	-	-	-	-	-	-	78	75	73.5	71	67	54
PS 150-200/1600	200x150	232	160	220	90	-	-	-	-	-	-	-	-	-	88	87	85	84	79	66
PS 150-200/2000	200x150	245	200	270	100	-	-	-	-	-	-	-	-	-	97	96	95	93	89	76
PS 150-250/1850	200x150	238	185	250	92	-	-	-	-	-	-	-	-	-	90	89	87.2	85	80	71
PS 150-250/2500	200x150	253	250	340	111	-	-	-	-	-	-	-	-	-	110	108	106	104	98	82
PS 150-250/2800	200x150	261	280	380	124	-	-	-	-	-	-	-	-	-	121	120	118	116	111	95
PS 150-250/3150	200x150	271	315	430	135	-	-	-	-	-	-	-	-	-	134	133	132	130	124	107

MATERIAL DESCRIPTION

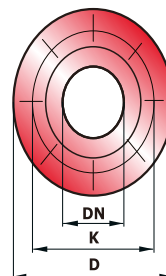
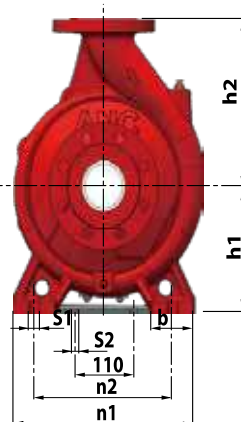


No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Pump Case	Cast iron	8	Bearing	Ball Bearing	15	Impeller Key	Iron
2	Impeller	SS304/Cast iron	9	Support Case	Cast iron	16	Connection Bolt	Steel
3	Mechanical Seal	SiC/Carbon/SS304	10	Support Foot	Iron	17	Impeller Nut	Galvanized Steel
4	O-ring	Rubber	11	Foot Bolt	Steel	18	Release Valve	Brass
5	Connection	Cast iron	12	Coupling(Optional)	Steel	19	Gasket	Rubber
6	Shaft	SS304/45# Steel	13	Case Cover	SS304	20	Counter Flange	Galvanized Cast iron
7	Bearing Cover	Cast iron	14	Nameplate	Aluminum	21	Flange Bolt	Steel

DIMENSIONS AND WEIGHT



mm		
d	u	t
24	8	27
32	10	35
42	12	45
60	18	64



PS(M) n≈3500 rpm

DN	D mm	K mm	HOLES	
			N	Φmm
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	22
100	220	180		
125	250	210		
150	285	240		
200	340	295	12	26
250	405	355		

MODEL	DIMENSIONS mm																	kg
	DN1	DN2	a	f	h1	h2	b	m1	m2	n1	n2	s1	s2	w	x	d	l	
32-200	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	35
40-200	65	40	100	360	180	225	65	125	95	320	250	14	14	260	100	24	50	58
40-250	65	40	125	500	200	160	65	125	95	345	280	14	14	370	140	32	80	82
50-200	65	50	100	360	180	180	65	125	95	320	250	14	14	260	100	24	50	50
50-250	65	50	125	500	225	280	65	125	95	345	280	14	14	370	140	32	80	90
65-200	80	65	100	470	200	250	80	160	120	360	280	18	14	340	140	32	80	71
65-250	80	65	125	470	225	280	80	160	120	360	280	18	14	340	140	32	80	98
80-200	100	80	100	470	200	280	80	160	120	400	315	18	14	340	140	32	80	79
80-250	100	80	125	470	250	315	80	160	120	400	315	18	14	340	140	24	50	118
100-200	125	100	125	470	225	280	80	160	120	400	315	18	14	340	140	32	80	88
100-250	125	100	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	116
125-200	150	125	140	470	250	355	80	160	120	400	315	19	14	340	140	32	80	112
125-200H	150	125	140	530	250	355	80	160	120	400	315	19	14	370	140	42	110	140
125-250	150	125	140	530	280	355	100	200	150	500	400	23	14	370	140	42	110	152
150-200	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	180
150-250	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	186

TECHNICAL SHEET/

Model	PSD
Capacity	0-1000 m ³ /h
Head	0-164 m
DN	32-150 mm
Speed	3000 rpm
T max	120 °C
Power	6.3-300 kW
Casing	Grey cast iron
Impeller	Cast iron/AISI 304/Brass
Shaft	AISI 304
Shaft seal	Mechanical Seal
Bearing	Grease lubrication rolling bearing

DESCRIPTION/

- ◆ Diesel engines have proven to be very reliable and effective for driving fire pumps
- ◆ Diesel engines are currently the only type of internal combustion engine permitted by NFPA 20
- ◆ Each engine shall be provided with two storage battery units according to NFPA20
- ◆ Diesel engines for fire pump is of the compression ignition type
- ◆ Advanced direct injection and combustion system.

Diesel

Diesel pump as standby provider flow and pressure in the system



PS(D)
n≈2900 rpm

MODEL CODE/

For example/

PS 0 - 250 / 220

→ **220**=Rated power (kW)x10

→ **250**=Nominal impeller size (mm)

→ **50**=Discharge

→ **PS**=End suction pump only



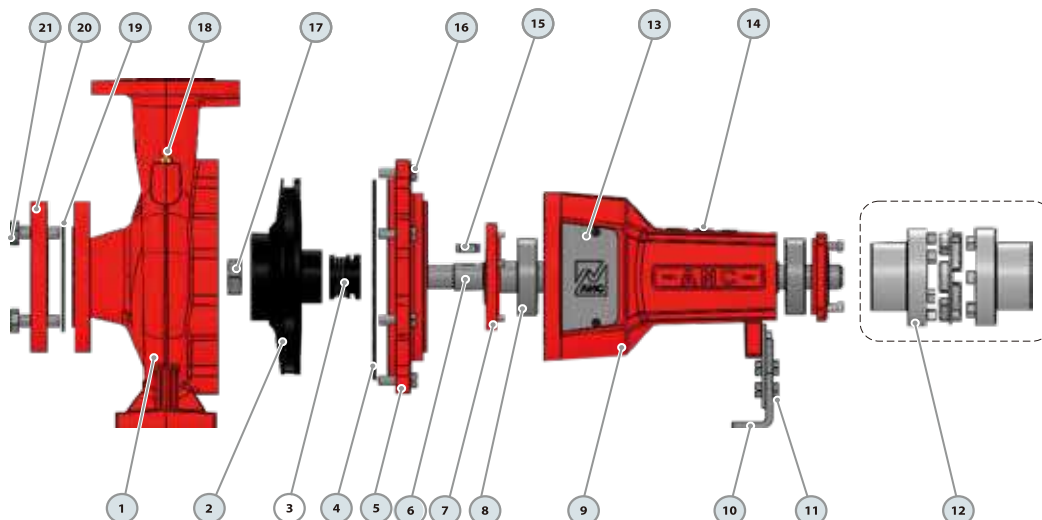
TECHNICAL DATA

50 Hz n=3000 1/min

MODEL	DN	Implr dia.	Power		Q=DELIVERY/ H=Head (m)															
					us gpm	0	25	50	75	100	120	150	200	250	300	350	400	450	500	600
	l/min	0	95	190	283	383	450	567	750	950	1133	1317	1517	1700	1900	2267				
	m³/h	0	5.7	11.4	17	23	27	34	45	57	68	79	91	102	114	136				
PS 32-250/55	50x32	208	6.3	8.6	60	59.5	58	54	50	46	-	-	-	-	-	-	-	-	-	-
PS 32-250/75	50x32	230	7.2	10	75	74.5	74	72.5	70	67.3	62	-	-	-	-	-	-	-	-	-
PS 32-250/75H(92)	50x32	237	8.2	12	79	78.5	78	76.5	73.5	71.3	64.5	-	-	-	-	-	-	-	-	-
PS 32-250/110	50x32	250	8.2	12	90	88	84.3	80	76	72	66	-	-	-	-	-	-	-	-	-
PS 32-250/150	50x32	258	20	27	97	95	91.5	87.2	83	79	73.5	-	-	-	-	-	-	-	-	-
PS 40-250/110	65x40	230	8.2	12	78	-	-	75.5	74	72	69	59	38	-	-	-	-	-	-	-
PS 40-250/150	65x40	250	20	27	88.5	-	-	83.5	81.5	79	76	67	47	-	-	-	-	-	-	-
PS 40-250/185	65x40	258	20	27	94	-	-	89	87	84.5	81.5	73	51	-	-	-	-	-	-	-
PS 40-315/185	65x40	260	20	27	95	-	-	95	94	92.5	88	74	-	-	-	-	-	-	-	-
PS 40-315/220	65x40	275	24	32	106	-	-	105	104	103.5	99	86	-	-	-	-	-	-	-	-
PS 40-315/300	65x40	290	28	38	120	-	-	120	119	117	116	108	-	-	-	-	-	-	-	-
PS 40-315/370	65x40	322	42	58	144	-	-	144	143	142	139	134	-	-	-	-	-	-	-	-
PS 40-315/450	65x40	340	45	61	160	-	-	160	160	159	158	154	-	-	-	-	-	-	-	-
PS 50-250/150	65x50	228	20	27	68.5	-	-	-	-	-	65	62	58	53	45	-	-	-	-	-
PS 50-250/185	65x50	235	20	27	79	-	-	-	-	-	77	74	71	66	59	47	-	-	-	-
PS 50-250/220	65x50	250	24	32	89.5	-	-	-	-	-	88	85	81.5	76	68	57	-	-	-	-
PS 50-250/300	65x50	258	28	38	95.5	-	-	-	-	-	92	90	87	81	74	63	-	-	-	-
PS 50-315/370	65x50	284	42	58	114	-	-	-	-	-	111	108	104	98	92	84	-	-	-	-
PS 50-315/450	65x50	306	45	61	132	-	-	-	-	-	129	125.5	122	117	110	102	-	-	-	-
PS 50-315/550	65x50	322	55	75	146	-	-	-	-	-	143	140	136	132	125	116	-	-	-	-
PS 50-315/750	65x50	340	75	100	164	-	-	-	-	-	162	158	154	148	141	134	-	-	-	-
PS 65-250/220	80x65	225	24	32	64.8	-	-	-	-	-	-	-	-	63.5	62	61	58.5	56	52.5	-
PS 65-250/300	80x65	244	28	38	80	-	-	-	-	-	-	-	-	79	78	77	74.5	72	70	59
PS 65-250/370	80x65	258	42	58	92	-	-	-	-	-	-	-	-	89.5	88.5	87	85	83	80	69

MODEL	DN	Implr dia.	Power		Q=DELIVERY/ H=Head (m)																
					us gpm	0	250	400	500	600	750	850	950	1000	1250	1350	1500	1750	2000	2500	3000
	l/min	0	950	1517	1900	2267	2833	3217	3600	3783	4733	5100	5683	6617	7567	9467	11350	13250	17033		
	m³/h	0	57	91	114	136	170	193	216	227	284	306	341	397	454	568	681	795	1022		
PS 65-315/450	80x65	262	45	61	102	98	94.5	90	83	-	-	-	-	-	-	-	-	-	-	-	-
PS 65-315/550	80x65	290	55	75	122	120	114.5	111	104	85	-	-	-	-	-	-	-	-	-	-	-
PS 65-315/750	80x65	317	75	100	141	141	134.5	132	123	105	86	64	-	-	-	-	-	-	-	-	-
PS 65-315/900	80x65	328	90	125	151	150	144.5	141	133	115	95	74	-	-	-	-	-	-	-	-	-
PS 80-250/450	100x80	240	45	61	88	86.7	86	84	80	72	62	49	-	-	-	-	-	-	-	-	-
PS 80-250/550	100x80	258	55	75	94.5	94.5	94.5	92	89	82	76	66	-	-	-	-	-	-	-	-	-
PS 80-250/750	100x80	276	75	100	108.5	108.5	108.5	106	103	96.5	90	80	-	-	-	-	-	-	-	-	-
PS 80-315/550	100x80	270	55	75	98	97	95.6	95	92	86	78	67	-	-	-	-	-	-	-	-	-
PS 80-315/750	100x80	295	75	100	124	123	121.6	119	116	110	103	94.5	89	-	-	-	-	-	-	-	-
PS 80-315/900	100x80	320	90	125	144	143	141.6	140	137	130	122	114	108	-	-	-	-	-	-	-	-
PS 80-315/1100	100x80	328	110	150	153	152	150.6	149	146	140	132	123	118	-	-	-	-	-	-	-	-
PS 100-250/550	125x100	240	55	75	77	76	75.5	76	75	73	72	70	70	62.3	59	-	-	-	-	-	-
PS 100-250/750	125x100	257	75	100	91	91	90.5	89.7	88	86	84	82	81	71.7	68.5	56	-	-	-	-	-
PS 100-250/900	125x100	270	90	125	100	100	99.5	98	97	95	93	91	90	80.7	77.5	65	-	-	-	-	-
PS 100-315/900	125x100	300	90	125	118	-	-	116	115.5	114	112	111	110	104	102	95	-	-	-	-	-
PS 100-315/1100	125x100	320	110	150	138	-	-	136	135	133	132	131	130	124	121	114	-	-	-	-	-
PS 100-315/1320	125x100	328	125	170	148	-	-	146	145	144	142	141	140	134	132	125	-	-	-	-	-
PS 125-250/750	150x125	255	75	100	80	-	-	77	76	74.5	73	72	71	67	65	60	-	-	-	-	-
PS 125-250/900	150x125	265	90	125	87	-	-	84	83	81.5	80	78.5	78	73.5	71.5	67.5	60	-	-	-	-
PS 125-250/1100	150x125	274	110	150	97	-	-	94	93	92	90.5	89	88	84	83.5	78.5	71	-	-	-	-
PS 125-250H/1100	150x125	240	110	150	74	-	-	74.5	74	74	73	73	72.5	70.8	70.4	69	66	62.5	53	-	-
PS 125-250H/1320	150x125	260	125	170	84	-	-	84	84	83.5	83	82.5	82	80.8	80.4	78.5	76	72	63	-	-
PS 125-250H/1600	150x125	280	165	225	98	-	-	97.5	97.5	97.5	97	97	96.5	94.8	94.4	93	90	87	78	66	-
PS 125-315/900	150x125	280	90	125	96	-	-	-	-	-	-	96	96	94	93.5	92	88.5	84	65	-	-
PS 125-315/1100	150x125	288	110	150	103	-	-	-	-	-	-	102.5	102	101	100.5	99	97	93	79	-	-
PS 125-315/1320	150x125	305	125	170	118	-	-	-	-	-	-	118	117.7	116	115.5	114.5	112	106	91	-	-
PS 125-315/1600	150x125	328	165	225	136	-	-	-	-	-	-	136	135.5	135	133.5	133	130	125	110	-	-
PS 150-250/1320	200x150	265	125	170	80.2	-	-	-	-	-	-	-	-	-	78	75	73.5	71	67	61	54
PS 150-250/1600	200x150	280	165	225	90	-	-	-	-	-	-	-	-	-	88	87	85	84	79	74	66
PS 150-250/2000	200x150	295	200	270	100	-	-	-	-	-	-	-	-	-	97	96	95	93	89	84	76
PS 150-315/1850	200x150	287	200	270	92	-	-	-	-	-	-	-	-	-	90	89	87.2	85	80	71	61
PS 150-315/2500	200x150	305	250	340	111	-	-	-	-	-	-	-	-	-	110	108	106	104	98	90	82
PS 150-315/2800	200x150	315	300	410	124	-	-	-	-	-	-	-	-	-	121	120	118	116	111	104	95
PS 150-315/3150	200x150	327	300	410	135	-	-	-	-	-	-	-	-	-	134	133	132	130	124	116	107

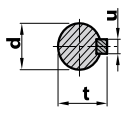
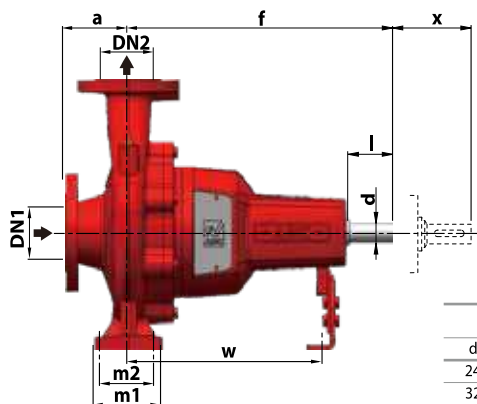
MATERIAL DESCRIPTION



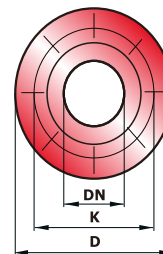
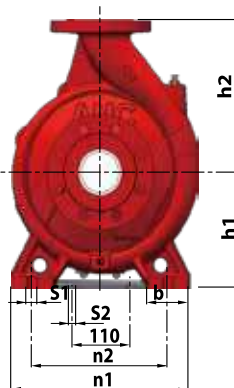
No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Pump Case	Cast iron	8	Bearing	Ball Bearing	15	Impeller Key	Iron
2	Impeller	SS304/Cast iron	9	Support Case	Cast iron	16	Connection Bolt	Steel
3	Mechanical Seal	SiC/Carbon/SS304	10	Support Foot	Iron	17	Impeller Nut	Galvanized Steel
4	O-ring	Rubber	11	Foot Bolt	Steel	18	Release Valve	Brass
5	Connection	Cast iron	12	Coupling(Optional)	Steel	19	Gasket	Rubber
6	Shaft	SS304/45# Steel	13	Case Cover	SS304	20	Counter Flange	Galvanized Cast iron
7	Bearing Cover	Cast iron	14	Nameplate	Aluminum	21	Flange Bolt	Steel

DIMENSIONS AND WEIGHT

PS(D) $n \approx 2900$ rpm



mm		
d	u	t
24	8	27
32	10	35
42	12	45
60	18	64



DN	D mm	K mm	HOLES	
			N	Φmm
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	22
100	220	180		
125	250	210		
150	285	240		
200	340	295	12	26
250	405	355		

MODEL	DIMENSIONS mm																	kg
	DN1	DN2	a	f	h1	h2	b	m1	m2	n1	n2	s1	s2	w	x	d	l	3~
32-250	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	35
40-250	65	40	100	360	180	225	65	125	95	320	250	14	14	260	100	24	50	58
40-315	65	40	125	500	200	160	65	125	95	345	280	14	14	370	140	32	80	82
50-250	65	50	100	360	180	180	65	125	95	320	250	14	14	260	100	24	50	50
50-315	65	50	125	500	225	280	65	125	95	345	280	14	14	370	140	32	80	90
65-250	80	65	100	470	200	250	80	160	120	360	280	18	14	340	140	32	80	71
65-315	80	65	125	470	225	280	80	160	120	360	280	18	14	340	140	32	80	98
80-250	100	80	100	470	200	280	80	160	120	400	315	18	14	340	140	32	80	79
80-315	100	80	125	470	250	315	80	160	120	400	315	18	14	340	140	24	50	118
100-250	125	100	125	470	225	280	80	160	120	400	315	18	14	340	140	32	80	88
100-315	125	100	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	116
125-250	150	125	140	470	250	355	80	160	120	400	315	19	14	340	140	32	80	112
125-250H	150	125	140	530	250	355	80	160	120	400	315	19	14	370	140	42	110	140
125-315	150	125	140	530	280	355	100	200	150	500	400	23	14	370	140	42	110	152
150-250	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	180
150-315	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	186



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This Chapter contains all information related to Connected - Pumps includes technical data, material description and dimensions.

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Chapter3

CONNECTED PUMPS



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DESCRIPTION

- ◆ According to NFPA20, centrifugal shall be of the overhung impeller design with close or separate couple end suction type
- ◆ Pump capacities are based on the calculate system demand
- ◆ Fire pump shutoff head should not exceed 140% of the nominal value
- ◆ Recommended the maximum system demand flow correlate to a point on pump curve between 90% to 140% of the pump capacity

TECHNICAL SHEET/

Model	PST
Capacity	0-400 m ³ /h
Head	0-151 m
DN	32-125 mm
Speed	3500 rpm
T max	120 °C
Power	0.75-160 kW
Voltage	220/380/660 V
HZ	60
Class	Class F/IP 55
Duty	S1 continuous
Casing	Grey Cast iron
Impeller	Ca t iron/AISI 304/Brass
Shaft	AISI304
Shaft seal	Mechanical Seal
Bearing	Grease lubrication rolling bearing

Electric

Electric pump to primarily provide flow and pressure in the system



PST
n≈3500 rpm

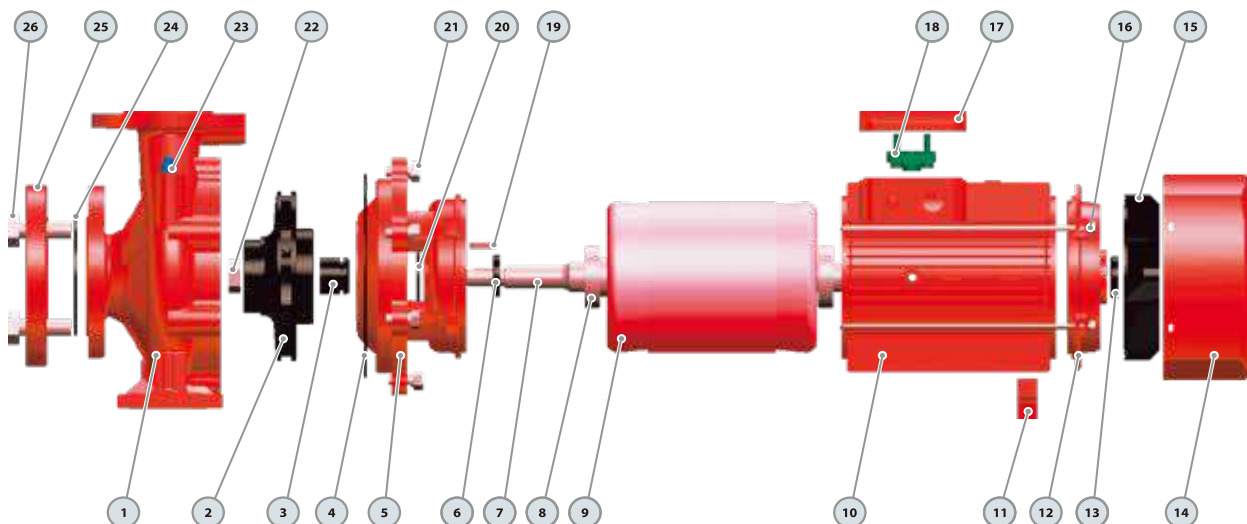


TECHNICAL DATA

60 Hz n=3500 1/min

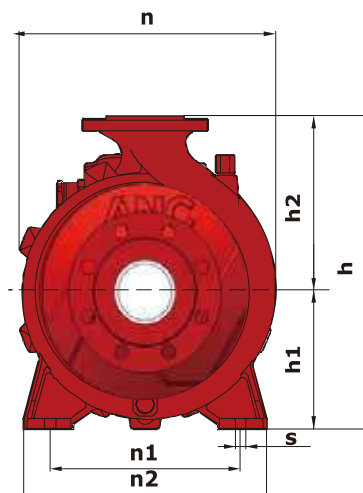
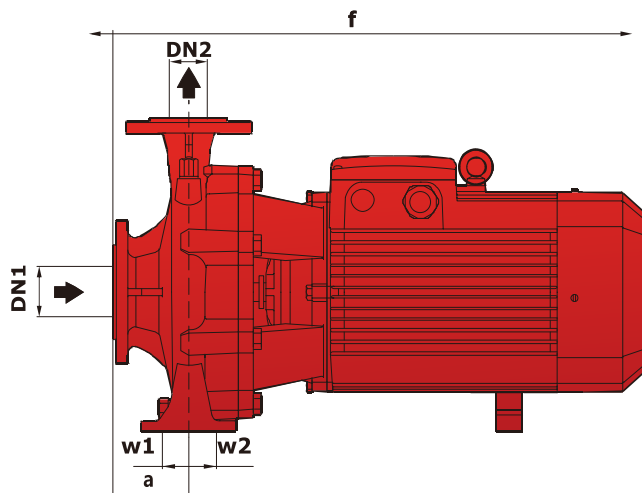
MODEL	DN	Power		Q=DELIVERY/ H=Head (m)															
				^{us} gpm	0	25	50	75	100	120	150	200	250	300	350	400	450	500	600
				l/min	0	95	190	283	383	450	567	750	950	1133	1317	1517	1700	1900	2267
				m³/h	0	5.7	11.4	17	23	27	34	45	57	68	79	91	102	114	136
	mm	kw	hp																
PST 32-200/55	50x32	5.5	7.5	60	59.5	58	54	50	46	-	-	-	-	-	-	-	-	-	
PST 32-200/75	50x32	7.5	10	75	74.5	74	72.5	70	67.3	62	-	-	-	-	-	-	-	-	
PST 32-200/92	50x32	9.2	12.5	79	78.5	78	76.5	73.5	71.3	64.5	-	-	-	-	-	-	-	-	
PST 32-200/110	50x32	11	15	90	88	84.3	80	76	72	66	-	-	-	-	-	-	-	-	
PST 32-200/150	50x32	15	20	97	95	91.5	87.2	83	79	73.5	-	-	-	-	-	-	-	-	
PST 32-200/55D	50x32	5.5	7.5	79.5	77	73	67	58	42	-	-	-	-	-	-	-	-	-	
PST 32-200/75D	50x32	7.5	10	95	93	89	84	78	70	46	-	-	-	-	-	-	-	-	
PST 40-200/92	65x40	9.2	12.5	64	-	-	60	57	55	51	42	-	-	-	-	-	-	-	
PST 40-200/110	65x40	11	15	78	-	-	75.5	74	72	69	59	38	-	-	-	-	-	-	
PST 40-200/150	65x40	15	20	88.5	-	-	83.5	81.5	79	76	67	47	-	-	-	-	-	-	
PST 40-200/185	65x40	18.5	25	94	-	-	89	87	84.5	81.5	73	51	-	-	-	-	-	-	
PST 50-200/150	65x50	15	20	68.5	-	-	-	-	-	65	62	58	53	45	-	-	-	-	
PST 50-200/185	65x50	18.5	25	79	-	-	-	-	-	77	74	71	66	59	47	-	-	-	
PST 50-200/220	65x50	22	30	89.5	-	-	-	-	-	88	85	81.5	76	68	57	-	-	-	
PST 65-200/220	80x65	22	30	64.8	-	-	-	-	-	-	-	63.5	62	61	58.5	56	52.5	-	
PST 65-200/300	80x65	30	40	80	-	-	-	-	-	-	-	79	78	77	74.5	72	70	59	
PST 65-200/370	80x65	37	50	92	-	-	-	-	-	-	-	89.5	88.5	87	85	83	80	69	

MATERIAL DESCRIPTION



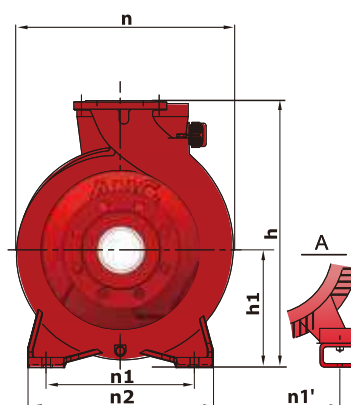
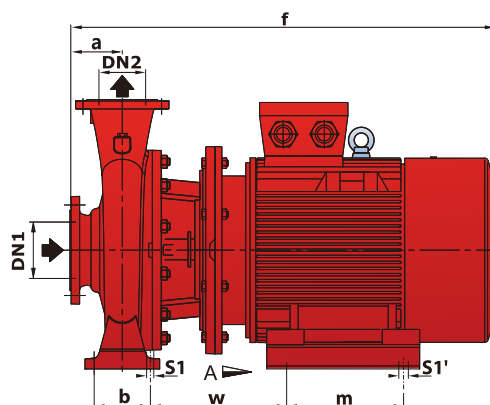
No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Pump Case	Cast iron	10	Motor Case	Aluminum	19	Impeller Key	Iron
2	Impeller	SS304/Cast iron	11	Support Foot	Plastic	20	Water Deflector	Rubber
3	Mechanical Seal	SiC/Carbon/SS304	12	Back Cover	Cast iron	21	Connection Bolt	Steel
4	O-ring	Rubber	13	Reinforced Seal	Rubber	22	Impeller Nut	Galvanized Steel
5	Connection	Cast iron	14	Fan Cover	Aluminum	23	Release Valve	Brass
6	Reinforced Seal	Rubber	15	Fan	Plastic	24	Gasket	Rubber
7	Shaft	SS304/45# Steel	16	Through Bolt	Steel	25	Counter Flange	Galvanized Cast iron
8	Bearing	Ball Bearing	17	Terminal Box	Aluminum	26	Flange Bolt	Steel
9	Wound Stator/Rotor	Silicon Steel/Copper	18	Terminal Board	Plastic			

DIMENSIONS AND WEIGHT



MODEL	DIMENSIONS/ mm													kg
	DN1	DN2	a	f	h	h1	h2	n	n1	n2	w1	w2	s	3~
PST 32-200/55	50	32	88	590	405	186	219	333	250	328	49	49	16	66
PST 32-200/75														73
PST 32-200/92														80
PST 32-200/110			94	712	415	186	229	327	250	327	49	49	15	95
PST 32-200/150														125
PST 32-200/55D-75D			160	610	362	162	200	330	216	280	37	37	14	73/80
PST 40-200/92	65	40	94	712	415	186	229	327	250	327	49	49	15	100
PST 40-200/110														116
PST 40-200/150														146
PST 40-200/185														155
PST 50-200/150-185-220	80	65	102	720	416	186	230	330	250	327				148/153/183

DIMENSIONS AND WEIGHT



MODEL	DIMENSIONS/ mm															kg 3~
	DN1	DN2	a	f	h	h1	n	n1	n1'	n2	b	w	m	s1	s1'	
PST 65-200/220	80	65	116	870	420	180	369	280	279	360	120	237	241	18	15	214
PST 65-200/300	80	65	116	990	420	180	369	280	318	360	120	278	305	18	18	265
PST 65-200/370	80	65	116	990	420	180	369	280	318	360	120	278	305	18	18	285
PST 65-250/450	80	65	125	1069	505	225	440	280	356	360	120	324	311	18	18	371
PST 65-250/550	80	65	125	1160	505	225	440	280	406	360	120	373	349	18	24	450
PST 65-250/750	80	65	125	1232	505	225	440	280	457	360	120	395	368	18	24	582
PST 65-250/900	80	65	125	1283	505	225	440	280	457	360	120	395	419	18	24	617
PST 80-200/370	100	80	125	950	535	250	410	315	318	400	120	229	305	18	18	289
PST 80-200/450	100	80	125	980	535	250	410	315	356	400	120	235	311	18	18	362
PST 80-200/550	100	80	125	1160	535	250	410	315	406	400	120	373	349	18	24	441
PST 80-250/450	100	80	125	1069	565	250	452	315	356	400	120	324	311	18	18	381
PST 80-250/550	100	80	125	1160	565	250	452	315	406	400	120	373	349	18	24	460
PST 80-250/750	100	80	125	1232	565	250	452	315	457	400	120	395	368	18	24	592
PST 80-250/900	100	80	125	1283	565	250	452	315	457	400	120	395	419	18	24	627
PST 100-200/450	125	100	140	1000	580	250	450	315	356	400	120	240	311	18	18	366
PST 100-200/550	125	100	140	1180	580	250	450	315	406	400	120	378	349	18	24	445
PST 100-200/750	125	100	140	1250	580	250	450	315	457	400	120	398	368	18	24	577
PST 100-200/900	125	100	140	1300	580	250	422	315	457	400	120	397	419	18	24	612
PST 100-250/550	125	100	140	1190	625	250	480	315	406	400	120	398	349	19	24	460
PST 100-250/750	125	100	140	1262	625	250	480	315	457	400	120	410	368	19	24	591
PST 100-250/900	125	100	140	1313	625	250	480	315	457	400	120	410	419	19	24	626
PST 100-250/1100	125	100	140	1474	625	250	480	315	508	400	120	436	406	19	28	972
PST 100-250/1320	125	100	140	1584	625	250	480	315	508	400	120	436	457	19	28	1087
PST 125-200/550	150	125	140	1190	605	250	500	315	406	400	120	388	349	19	24	457
PST 125-200/750	150	125	140	1262	605	250	500	315	457	400	120	410	368	19	24	589
PST 125-200/900	150	125	140	1313	605	250	500	315	457	400	120	410	419	19	24	624



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This chapter includes all Information related to Jockey Pumps Of all types inline - jockey and normal jockey.

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Chapter4

JOCKEY PUMPS



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SECTION 1

INLINE – JOCKEY PUMP

This section contains all information related to inline jockey pump includes technical data, material description and dimensions.





PVS/PVT

S.S.304 vertical multistage pump

MODEL CODE/

For example/

PVS

32 - 30 - 2

2=Small impeller number

30=Stage/*Etapa*/*Étape* x10 (PVT32-PVT90)

32=Rated flow(m^3/h)

PVS=Pump with flow passage components in SS304

APPLICATIONS

The stainless steel multistage pumps are suitable for industrial processing systems, washing and cleaning systems, pumping of acids and alkalis, filtration systems, water pressure boosting, water Treatment, HVAC, irrigation, fire protection systems etc.

DESCRIPTION/

- ◆ SS304 vertical, multistage centrifugal pump
- ◆ The suction and discharge ports on the same level
- ◆ PVT pump head and base are in cast iron
- ◆ PVT pump impeller and shaft are in stainless steel
- ◆ PVS pump all wetted parts are in stainless steel
- ◆ YE3 high efficient motor, with protection IP55 class F
- ◆ Quality bearing, wear resistance mechanical seal
- ◆ Liquid temperature between -10°C and $+120^{\circ}\text{C}$



TECHNICAL DATA

60 Hz n=3500 1/min

MODEL	DN mm	Power kw hp		Q=DELIVERY/ l/min																			
				2.6		3.5	4.4	5.3	6.2	6.6	7	7.9	8.8	11	13	15	18	20	22	26	31	35	
				10	13	17	20	23	25	27	30	33	42	50	58	67	75	83	100	117	133		
				0.6	0.8	1	1.2	1.4	1.5	1.6	1.8	2	2.5	3	3.5	4	4.5	5	6	7	8		
H=Head (m)																							
PVS 1-2	25x25	0.37	0.5	17.5	17	16.5	16	15.5	15.3	15	14	13	-	-	-	-	-	-	-	-	-		
PVS 1-3	25x25	0.37	0.5	26.5	26	25	24	23	22.5	22	21	20	-	-	-	-	-	-	-	-	-		
PVS 1-4	25x25	0.37	0.5	35	34	33	32	31	30.5	30	28	26	-	-	-	-	-	-	-	-	-		
PVS 1-5	25x25	0.55	0.75	43	42	41	40	39	38.5	38	35	33	-	-	-	-	-	-	-	-	-		
PVS 1-6	25x25	0.55	0.75	52	51	50	48	47	46	45	43	39	-	-	-	-	-	-	-	-	-		
PVS 1-7	25x25	0.75	1	60	59	58	56	55	54	52	50	46	-	-	-	-	-	-	-	-	-		
PVS 1-8	25x25	0.75	1	68	67	65	64	62	61	59	57	53	-	-	-	-	-	-	-	-	-		
PVS 1-9	25x25	0.75	1	76	75	74	73	71	69	66	64	60	-	-	-	-	-	-	-	-	-		
PVS 1-10	25x25	1.1	1.5	85	84	83	81	78	76	74	72	67	-	-	-	-	-	-	-	-	-		
PVS 1-11	25x25	1.1	1.5	95	93	90	87	85	83	81	78	73	-	-	-	-	-	-	-	-	-		
PVS 1-12	25x25	1.1	1.5	103	102	98	96	92	90	88	86	79	-	-	-	-	-	-	-	-	-		
PVS 1-13	25x25	1.1	1.5	112	110	107	105	100	98	95	93	86	-	-	-	-	-	-	-	-	-		
PVS 1-15	25x25	1.5	2	127	125	123	121	117	115	112	107	99	-	-	-	-	-	-	-	-	-		
PVS 1-17	25x25	1.5	2	144	141	139	137	132	128	124	120	112	-	-	-	-	-	-	-	-	-		
PVS 1-19	25x25	2.2	3	160	157	155	153	147	144	141	134	124	-	-	-	-	-	-	-	-	-		
PVS 1-21	25x25	2.2	3	177	174	172	168	162	158	153	147	138	-	-	-	-	-	-	-	-	-		
PVS 1-23	25x25	2.2	3	193	190	188	184	174	171	167	161	152	-	-	-	-	-	-	-	-	-		
PVS 1-25	25x25	3	4	210	207	205	202	192	188	184	176	164	-	-	-	-	-	-	-	-	-		
PVS 2-2	25x25	0.55	0.75	-	-	26	25	24	24	24	23	22	21	18	16	12	9	-	-	-	-		
PVS 2-3	25x25	0.75	1	-	-	39	38	37	36	35	34	33	31	27	24	19	15	-	-	-	-		
PVS 2-4	25x25	1.1	1.5	-	-	52	50	49	48	47	46	45	42	36	32	26	20	-	-	-	-		
PVS 2-5	25x25	1.1	1.5	-	-	65	63	61	60	59	58	57	52	46	41	32	25	-	-	-	-		
PVS 2-6	25x25	1.1	1.5	-	-	78	76	75	74	73	71	69	63	56	49	40	30	-	-	-	-		
PVS 2-7	25x25	1.5	2	-	-	91	89	87	86	85	83	81	74	66	57	47	35	-	-	-	-		
PVS 2-9	25x25	2.2	3	-	-	117	115	112	111	110	107	104	95	86	75	61	45	-	-	-	-		
PVS 2-11	25x25	2.2	3	-	-	143	140	137	136	134	131	128	116	104	90	75	56	-	-	-	-		
PVS 2-13	25x25	3	4	-	-	171	168	165	163	161	156	152	139	126	108	90	66	-	-	-	-		
PVS 2-15	25x25	3	4	-	-	195	191	188	186	184	180	176	160	142	125	103	77	-	-	-	-		
PVS 2-18	25x25	4	5.5	-	-	234	232	229	228	225	218	212	195	171	151	126	94	-	-	-	-		
PVS 3-2	25x25	0.37	0.5	-	-	-	-	-	17.5	17	17	16	15	14	13	11	9	8	-	-	-		
PVS 3-3	25x25	0.55	0.75	-	-	-	-	-	26.5	26	26	25	24	23	20	18	15	12	-	-	-		
PVS 3-4	25x25	0.55	0.75	-	-	-	-	-	35	35	34	34	32	30	27	25	20	17	-	-	-		
PVS 3-5	25x25	0.75	1	-	-	-	-	-	44	44	43	42	40	38	33	31	26	23	-	-	-		
PVS 3-6	25x25	1.1	1.5	-	-	-	-	-	51	51	50	50	48	45	40	37	32	27	-	-	-		
PVS 3-7	25x25	1.1	1.5	-	-	-	-	-	61	61	60	59	56	52	46	43	38	31	-	-	-		
PVS 3-8	25x25	1.1	1.5	-	-	-	-	-	70	69	68	67	64	61	53	49	44	35	-	-	-		
PVS 3-9	25x25	1.5	2	-	-	-	-	-	78	78	77	77	72	68	60	56	50	40	-	-	-		
PVS 3-10	25x25	1.5	2	-	-	-	-	-	87	86	85	84	81	76	68	63	55	44	-	-	-		
PVS 3-11	25x25	1.5	2	-	-	-	-	-	96	95	94	92	87	82	74	69	59	48	-	-	-		
PVS 3-12	25x25	2.2	3	-	-	-	-	-	104	103	102	100	96	90	79	73	63	52	-	-	-		
PVS 3-13	25x25	2.2	3	-	-	-	-	-	112	111	110	109	104	98	86	80	69	57	-	-	-		
PVS 3-15	25x25	2.2	3	-	-	-	-	-	129	128	127	126	120	112	99	93	81	65	-	-	-		
PVS 3-17	25x25	2.2	3	-	-	-	-	-	147	146	145	143	137	128	114	106	91	74	-	-	-		
PVS 3-19	25x25	3	4	-	-	-	-	-	165	164	162	160	153	142	126	118	102	82	-	-	-		
PVS 3-21	25x25	3	4	-	-	-	-	-	183	182	180	178	170	160	141	129	112	91	-	-	-		
PVS 3-23	25x25	3	4	-	-	-	-	-	200	199	196	194	185	174	154	142	122	98	-	-	-		
PVS 3-25	25x25	4	5.5	-	-	-	-	-	217	216	213	211	202	187	167	154	134	108	-	-	-		
PVS 4-2	32x32	0.75	1	-	-	-	-	-	-	-	-	-	26	25	24	23	22	21	19	16	14		
PVS 4-3	32x32	1.1	1.5	-	-	-	-	-	-	-	-	-	39	38	37	36	34	32	28	24	21		
PVS 4-4	32x32	1.5	2	-	-	-	-	-	-	-	-	-	52	50	49	48	46	44	38	35	31		
PVS 4-5	32x32	2.2	3	-	-	-	-	-	-	-	-	-	65	62	61	60	58	55	49	44	39		
PVS 4-6	32x32	2.2	3	-	-	-	-	-	-	-	-	-	78	75	74	72	70	67	59	54	47		
PVS 4-7	32x32	3	4	-	-	-	-	-	-	-	-	-	92	88	86	84	81	78	69	62	55		
PVS 4-8	32x32	3	4	-	-	-	-	-	-	-	-	-	104	100	98	95	93	90	79	72	63		
PVS 4-10	32x32	4	5.5	-	-	-	-	-	-	-	-	-	130	125	123	120	117	113	102	90	80		
PVS 4-12	32x32	4	5.5	-	-	-	-	-	-	-	-	-	156	150	148	145	141	136	122	109	96		
PVS 4-14	32x32	5.5	7.5	-	-	-	-	-	-	-	-	-	182	176	173	170	165	159	145	129	112		
PVS 4-16	32x32	5.5	7.5	-	-	-	-	-	-	-	-	-	207	201	199	196	190	183	165	146	128		

TECHNICAL DATA

60 Hz n=3500 1/min

MODEL	DN mm	Power kw hp		Q=DELIVERY/ H=Head (m)																			
				us gpm	31	35	40	44	48	53	57	62	66	70	79	84	88	97	106	115	132	141	150
				117	133	150	167	183	200	217	233	250	267	300	317	333	367	400	433	500	533	567	
				m³/h	7	8	9	10	11	12	13	14	15	16	18	19	20	22	24	26	30	32	34
PVS 8-2-1	40x40	0.75	1	13	12	11.5	11	10.5	10	9.5	9	-	-	-	-	-	-	-	-	-	-		
PVS 8-2	40x40	1.5	2	27	26	25	24	23	22	20	18	-	-	-	-	-	-	-	-	-	-		
PVS 8-3	40x40	2.2	3	41	40	38	37	35	33	30	28	-	-	-	-	-	-	-	-	-	-		
PVS 8-4	40x40	3	4	55	54	52	50	47	45	41	38	-	-	-	-	-	-	-	-	-	-		
PVS 8-5	40x40	3	4	70	68	65	63	59	56	52	47	-	-	-	-	-	-	-	-	-	-		
PVS 8-6	40x40	4	5.5	85	82	78	76	72	68	62	57	-	-	-	-	-	-	-	-	-	-		
PVS 8-8	40x40	5.5	7.5	115	110	105	101	97	91	84	75	-	-	-	-	-	-	-	-	-	-		
PVS 8-10	40x40	7.5	10	145	140	132	126	122	115	105	95	-	-	-	-	-	-	-	-	-	-		
PVS 8-12	40x40	7.5	10	173	167	160	152	147	132	125	115	-	-	-	-	-	-	-	-	-	-		
PVS 8-14	40x40	11	15	202	195	188	179	174	163	147	135	-	-	-	-	-	-	-	-	-	-		
PVS 10-1	40x40	0.75	1	13.5	13	12.5	12	11	10	9	7	6	-	-	-	-	-	-	-	-	-		
PVS 10-2	40x40	1.5	2	28	27	26	25	23	22	19	18	16	-	-	-	-	-	-	-	-	-		
PVS 10-3	40x40	2.2	3	42	41	39	38	36	34	31	28	25	-	-	-	-	-	-	-	-	-		
PVS 10-4	40x40	3	4	57	55	53	51	48	45	41	38	34	-	-	-	-	-	-	-	-	-		
PVS 10-5	40x40	3	4	71	69	66	64	61	57	52	48	43	-	-	-	-	-	-	-	-	-		
PVS 10-6	40x40	4	5.5	86	83	80	77	74	69	64	59	52	-	-	-	-	-	-	-	-	-		
PVS 10-7	40x40	5.5	7.5	100	97	94	90	87	81	75	69	61	-	-	-	-	-	-	-	-	-		
PVS 10-8	40x40	5.5	7.5	114	110	108	103	99	93	86	79	70	-	-	-	-	-	-	-	-	-		
PVS 10-9	40x40	5.5	7.5	128	125	121	116	111	105	98	90	79	-	-	-	-	-	-	-	-	-		
PVS 10-10	40x40	7.5	10	143	139	135	129	123	117	109	100	89	-	-	-	-	-	-	-	-	-		
PVS 10-12	40x40	7.5	10	172	167	163	156	149	140	131	120	107	-	-	-	-	-	-	-	-	-		
PVS 10-14	40x40	11	15	201	196	191	183	175	164	153	140	125	-	-	-	-	-	-	-	-	-		
PVS 10-16	40x40	11	15	230	224	219	210	200	188	176	160	143	-	-	-	-	-	-	-	-	-		
PVS 10-17	40x40	11	15	245	239	233	224	213	200	186	170	152	-	-	-	-	-	-	-	-	-		
PVS 12-1	50x50	1.1	1.5	17	17	16	16	15	14.5	14	13	12.5	11	10	8.5	-	-	-	-	-	-		
PVS 12-2	50x50	2.2	3	35	35	34	33	32.5	32	30.5	29	27	24.5	23	20.5	-	-	-	-	-	-		
PVS 12-3	50x50	4	5.5	52.5	52	51.5	51	50	48	46	44	41.5	37.5	34	31	-	-	-	-	-	-		
PVS 12-4	50x50	5.5	7.5	70	69	68	67	65.5	64	61.5	58	55	49.5	45	41	-	-	-	-	-	-		
PVS 12-5	50x50	5.5	7.5	88	87	86	84	82	80	77	74	70	62	57	51	-	-	-	-	-	-		
PVS 12-6	50x50	7.5	10	107	105	103	101	99	96	92	88	84	75	68	61	-	-	-	-	-	-		
PVS 12-7	50x50	7.5	10	124	123	121	119	116	112	107	102	97	88	80	71	-	-	-	-	-	-		
PVS 12-8	50x50	11	15	141	139	137	135	132	128	122	117	111	101	92	82	-	-	-	-	-	-		
PVS 12-10	50x50	11	15	178	176	173	170	166	161	153	147	140	128	116	104	-	-	-	-	-	-		
PVS 12-12	50x50	15	20	213	211	208	204	199	193	185	177	169	154	140	125	-	-	-	-	-	-		
PVS 12-14	50x50	15	20	249	246	242	238	233	225	216	207	198	180	163	145	-	-	-	-	-	-		
PVS 16-2-1	50x50	2.2	3	-	-	-	19	19	18.5	18	18	18	17	16	16	15	14	13	11	-	-		
PVS 16-2	50x50	4	5.5	-	-	-	38	38	37	37	36	36	35	34	33	32	30	27	24	-	-		
PVS 16-3	50x50	5.5	7.5	-	-	-	57	57	56	56	55	55	54	51	50	48	45	40	36	-	-		
PVS 16-4	50x50	7.5	10	-	-	-	76	76	75	74	73	73	72	68	66	64	60	54	49	-	-		
PVS 16-5	50x50	11	15	-	-	-	96	95	94	93	92	91	90	85	83	80	75	68	62	-	-		
PVS 16-6	50x50	11	15	-	-	-	115	114	113	112	111	110	108	102	99	96	91	82	75	-	-		
PVS 16-7	50x50	15	20	-	-	-	135	134	132	131	129	128	126	119	116	113	106	96	88	-	-		
PVS 16-8	50x50	15	20	-	-	-	155	154	152	150	148	146	144	137	134	130	122	111	101	-	-		
PVS 16-10	50x50	18.5	25	-	-	-	197	195	192	190	187	184	181	174	170	165	153	139	127	-	-		
PVS 20-1	50x50	2.2	3	-	-	-	-	19	19	19	19	19	18	18	18	17	16	15	14	13	10		
PVS 20-2	50x50	4	5.5	-	-	-	-	38	38	38	38	37	36	36	35	34	32	31	29	24	21		
PVS 20-3	50x50	5.5	7.5	-	-	-	-	58	58	57	57	56	55	54	53	52	50	48	45	38	33		
PVS 20-4	50x50	7.5	10	-	-	-	-	78	78	77	76	75	74	73	72	70	67	64	60	51	45		
PVS 20-5	50x50	11	15	-	-	-	-	98	97	96	95	94	92	91	90	88	85	80	75	64	57		
PVS 20-6	50x50	11	15	-	-	-	-	118	117	116	115	113	111	110	108	105	102	97	91	77	70		
PVS 20-7	50x50	15	20	-	-	-	-	138	137	136	135	133	130	129	127	123	119	113	107	91	83		
PVS 20-8	50x50	15	20	-	-	-	-	158	157	156	155	153	150	148	146	142	137	130	123	105	96		
PVS 20-10	50x50	18.5	25	-	-	-	-	198	197	196	195	193	189	187	185	179	172	164	155	133	122		

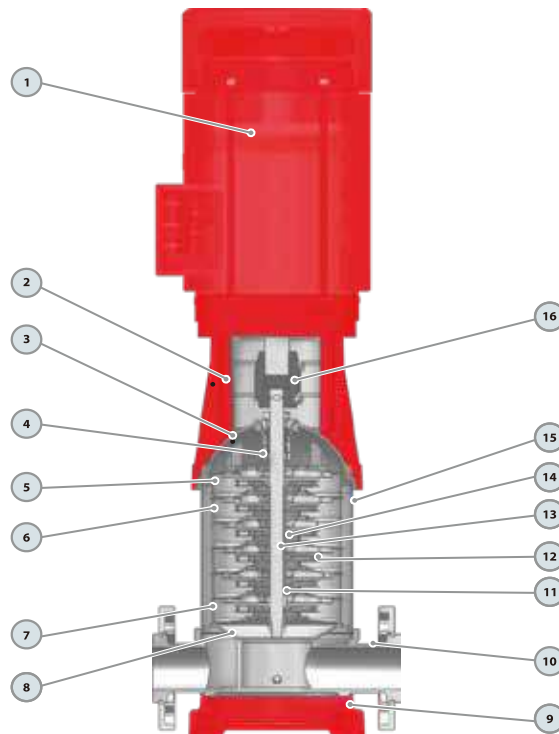


TECHNICAL DATA

60 Hz n=3500 1/min

MODEL	DN	Power		Q=DELIVERY/																											
				us	88	106	132	141	159	176	185	198	211	220	242	264	286	308	352	374	396	441	507	573							
				gpm	333	400	500	533	600	667	700	750	800	833	917	1000	1083	1167	1333	1417	1500	1667	1917	2167							
				m³/h	20	24	30	32	36	40	42	45	48	50	55	60	65	70	80	85	90	100	115	130							
		H=Head (m)																													
PVS 32-10-1	65x65	3	4	20	19	18	17	15	13	12	9	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-10	65x65	4	5.5	26	25	24	23	21	19	18	16	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-20-2	65x65	5.5	7.5	41	40	37	35	31	27	25	21	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-20	65x65	7.5	10	52	50	47	45	41	37	35	32	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-30-2	65x65	7.5	10	67	64	59	57	52	46	43	37	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-30	65x65	11	15	78	75	69	67	62	56	53	48	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-40-2	65x65	11	15	94	91	84	81	73	65	61	53	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-40	65x65	15	20	104	101	94	91	83	75	71	63	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-50-2	65x65	15	20	119	115	106	102	94	84	79	70	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-50	65x65	18.5	25	130	125	116	112	104	94	89	80	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-60-2	65x65	18.5	25	145	140	130	126	116	104	97	86	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-60	65x65	18.5	25	155	150	140	136	126	114	107	95	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-70-2	65x65	22	30	172	166	154	149	137	123	115	101	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-70	65x65	22	30	182	176	164	159	148	133	126	113	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-80-2	65x65	22	30	196	190	177	172	159	143	134	119	102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-80	65x65	30	40	208	201	187	181	167	152	142	127	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-90-2	65x65	30	40	223	216	200	194	179	162	152	136	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-90	65x65	30	40	234	226	210	204	189	172	162	146	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 32-100-2	65x65	30	40	248	241	224	217	201	181	170	153	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-10-1	80x80	5.5	7.5	-	-	29	29	28	27	26	25	24	23	21	19	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-10	80x80	7.5	10	-	-	34	34	33	32	31.5	30	29	29	27	25	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-20-2	80x80	11	15	-	-	57	56	55	53	52	49	47	46	43	38	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-20	80x80	15	20	-	-	69	68	67	65	63	61	60	59	55	50	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-30-2	80x80	18.5	25	-	-	90	89	87	85	83	80	77	75	72	63	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-30	80x80	18.5	25	-	-	102	101	99	97	95	92	90	88	82	76	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-40-2	80x80	22	30	-	-	125	123	121	118	115	112	108	105	98	89	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-40	80x80	30	40	-	-	136	135	132	129	126	123	119	117	112	102	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-50-2	80x80	30	40	-	-	159	157	153	149	146	142	137	134	121	115	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-50	80x80	30	40	-	-	171	169	165	161	158	154	149	145	138	126	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-60-2	80x80	37	50	-	-	194	192	187	182	178	173	167	163	155	139	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-60	80x80	37	50	-	-	205	203	198	193	190	186	180	176	166	152	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-70-2	80x80	45	60	-	-	227	224	219	213	210	205	198	193	182	165	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 45-70	80x80	45	60	-	-	239	236	231	226	221	216	209	204	194	178	157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PVS 64-10-1	100x100	7.5	10	-	-	-	-	-	26	26	26	25	25	24	23	22	21	18	16	14	10	-	-	-	-	-	-	-	-	-	-
PVS 64-10	100x100	11	15	-	-	-	-	-	37	37	36	35	35	34	33	32	31	28	26	24	21	-	-	-	-	-	-	-	-	-	-
PVS 64-20-2	100x100	15	20	-	-	-	-	-	53	53	52	51	50	49	47	44	42	37	34	31	23	-	-	-	-	-	-	-	-	-	-
PVS 64-20	100x100	22	30	-	-	-	-	-	74	74	73	72	72	70	67	64	62	57	54	51	42	-	-	-	-	-	-	-	-	-	-
PVS 64-30-2	100x100	22	30	-	-	-	-	-	93	92	91	89	88	84	80	76	72	65	61	56	45	-	-	-	-	-	-	-	-	-	-
PVS 64-30	100x100	30	40	-	-	-	-	-	112	111	110	109	108	104	100	96	93	86	82	77	65	-	-	-	-	-	-	-	-	-	-
PVS 64-40-2	100x100	37	50	-	-	-	-	-	130	129	127	125	124	120	115	110	103	94	89	83	66	-	-	-	-	-	-	-	-	-	-
PVS 64-40	100x100	45	60	-	-	-	-	-	152	150	148	146	144	140	135	130	123	114	108	102	86	-	-	-	-	-	-	-	-	-	-
PVS 64-50-2	100x100	45	60	-	-	-	-	-	172	170	167	164	162	157	151	144	137	126	119	112	91	-	-	-	-	-	-	-	-	-	-
PVS 90-10-1	100x100	11	15	-	-	-	-	-	-	-	-	-	-	-	-	31	29	27	25	24	23	21	16	9	-	-	-	-	-	-	-
PVS 90-10	100x100	15	20	-	-	-	-	-	-	-	-	-	-	-	-	36	36	35	33	31	30	29	25	18	-	-	-	-	-	-	-
PVS 90-20-2	100x100	18.5	25	-	-	-	-	-	-	-	-	-	-	-	-	59	58	57	54	51	48	44	36	22	-	-	-	-	-	-	-
PVS 90-20-1	100x100	22	30	-	-	-	-	-	-	-	-	-	-	-	-	67	66	65	62	59	57	51	44	33	-	-	-	-	-	-	-
PVS 90-20	100x100	30	40	-	-	-	-	-	-	-	-	-	-	-	-	76	75	73	69	66	64	60	54	44	-	-	-	-	-	-	-
PVS 90-30-2	100x100	37	50	-	-	-	-	-	-	-	-	-	-	-	-	98	96	94	88	85	82	75	64	46	-	-	-	-	-	-	-
PVS 90-30-1	100x100	37	50	-	-	-	-	-	-	-	-	-	-	-	-	108	106	104	98	94	90	83	74	56	-	-	-	-	-	-	-
PVS 90-30	100x100	45	60	-	-	-	-	-	-	-	-	-	-	-	-	116	114	111	105	102	97	93	84	69	-	-	-	-	-	-	-
PVS 90-40-2	100x100	45	60	-	-	-	-	-	-	-	-	-	-	-	-	141	138	135	128	124	118	109	96	72	-	-	-	-	-	-	-

MATERIAL DESCRIPTION

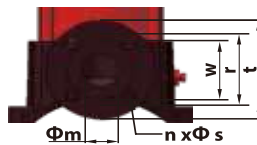
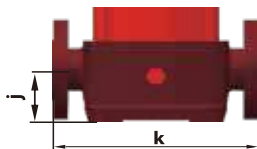
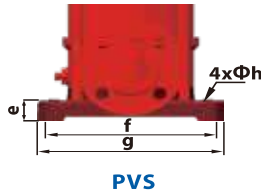
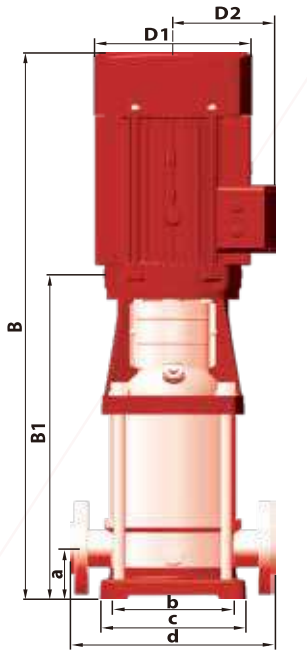


PVS

No.	Description	Material
1	Motor	IP55 Class F
2	Pump Case	Cast iron
3	Seal Base	SS304
4	Mechanical Seal	SS304
5	Top Diffuser	SS304
6	Diffuser	SS304
7	Support Diffuser	SS304
8	Inducer	SS304

No	Description	Material
9	Base Plate	Cast iron
10	Inlet&Outlet Chamber	SS304
11	Bearing	Tungsten Carbide
12	Impeller	SS304
13	Shaft	SS304
14	Impeller Sleeve	SS304
15	Cylinder	SS304
16	Coupling	Carbon Steel

DIMENSIONS AND WEIGHT



MODEL	B1	B	D1	D2	COMMON	kg
4-2	286	531	170	142	DN=32 a=50 b=100 c=150 d=210 e=20 f=180 g=210 h=13 j=75 k=250 m=32 n=4 r=100 s=18 t=140 w=60	24
4-3	313	558	170	142		25
4-4	350	640	190	155		31
4-5	376	667	190	155		34
4-6	404	694	190	155		35
4-7	441	786	197	165		42
4-8	468	813	197	165		42
4-10	522	877	230	188		51
4-12	576	931	230	188		52
4-14	650	1040	260	208		64
4-16	704	1094	260	208		66
8-2-1	347	592	170	142		32
8-2	357	647	190	155		38
8-3	387	677	190	155		41
8-4	427	772	197	165		49
8-5	457	802	197	165		50
8-6	487	842	230	188		58
8-8	567	957	260	208		71
8-10	627	1017	260	208	DN=40 a=80 b=130 c=199 d=260 e=25 f=215 g=247 h=14 j=80 k=280 m=50 n=4 r=110 s=18 t=150 w=80	80
8-12	687	1077	260	208		82
8-14	835	1335	330	255		153
10-1	347	592	170	142		40
10-2	347	637	190	155		47
10-3	377	667	190	155		51
10-4	417	762	197	165		60
10-5	447	792	197	165		61
10-6	477	832	230	188		70
10-7	517	907	260	208		92
10-8	547	937	260	208		93
10-9	577	967	260	208		94
10-10	607	997	260	208		98
10-12	667	1057	260	208		100
10-14	747	1247	330	255		157
10-16	807	1307	330	255		159
10-17	837	1337	330	255		160
12-1	357	602	170	142	DN=50 a=90 b=130 c=199 d=260 e=35 f=215 g=247 h=14 j=90 k=300 m=50 n=4 r=125 s=18 t=165 w=80	32
12-2	367	657	190	155		41
12-3	407	762	230	188		56
12-4	457	847	260	208		69
12-5	487	877	260	208		71
12-6	517	907	260	208		77
12-7	547	937	260	208		78
12-8	665	1165	330	255		147
12-10	725	1225	330	255		151
12-12	785	1285	330	255		164
12-14	845	1345	330	255		167

MODEL	B1	B	D1	D2	COMMON	kg
16-2-1	397	687	190	155		42
16-2	407	762	230	188		56
16-3	472	862	260	208	DN=50 a=90 b=130 c=199 d=260 e=35 f=215 g=247 h=14 j=90 k=300 m=50 n=4 r=125 s=18 t=165 w=80	68
16-4	517	907	260	208		75
16-5	650	1150	330	255		148
16-6	695	1195	330	255		150
16-7	740	1240	330	255		161
16-8	785	1285	330	255		163
16-10	875	1425	330	255		186
20-1	397	687	190	155		41
20-2	407	762	230	188		56
20-3	472	862	260	208		69
20-4	517	907	260	208		79
20-5	650	1150	330	255		148
20-6	695	1195	330	255		150
20-7	740	1240	330	255		162
20-8	785	1285	330	255		163
20-10	875	1425	330	255		187
32-10-1	505	850	197	165		73
32-10	505	860	230	188		81
32-20-2	575	965	260	208		95
32-20	575	965	260	208		101
32-30-2	645	1035	330	255	DN=65 a=105 b=170 c=225 d=320 e=30 f=240 g=298 h=14 j=105 k=320 m=74 n=8 r=145 s=18 t=185 w=107	104
32-30	750	1250	330	255		172
32-40-2	820	1320	330	255		176
32-40	820	1320	330	255		186
32-50-2	890	1390	330	255		191
32-50	890	1440	330	255		211
32-60-2	960	1510	330	255		216
32-60	960	1510	330	255		216
32-70-2	1030	1605	360	285		255
32-70	1030	1605	360	285		255
32-80-2	1100	1675	400	310		259
32-80	1100	1750	400	310		315
32-90-2	1170	1820	400	310		319
32-90	1170	1820	400	310		319
32-100-2	1240	1890	400	310		324



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SECTION 2

NORMAL – JOCKEY PUMP

This section contains all information related to Normal jockey pump includes technical data, material description and dimensions.



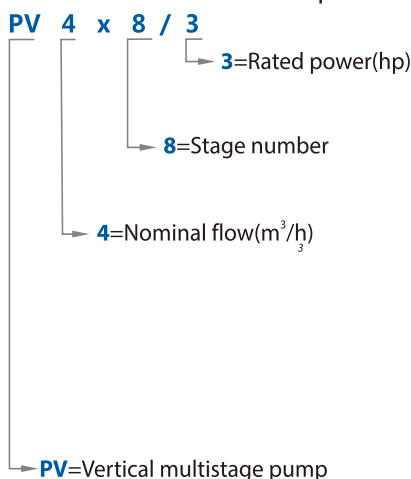
info@anc.sa www.anc.sa



PV Vertical multistag centrifugal pump

MODEL CODE/

For example/



DESCRIPTION/

- ◆ New design noiseless, energy-saving multistage pump
- ◆ Ensuring durability and easy in operation
- ◆ A wide range of products will meet every requirement
- ◆ YE3 high efficient motor, with protection IP55 class F
- ◆ Impeller in techno-polymer
- ◆ Suction and discharge port in cast iron G20 thread
- ◆ Quality NSK bearing, wear resistance mechanical seal
- ◆ Compact and proportional design

APPLICATIONS

The high efficiency and noiseless operation which allows these pumps to be used in conditions households, irrigation, car washes, fire protection systems, air conditioning and lifting installations water pressure in the network.

USING LIMITS/

- ◆ Liquid temperature between **-10°C** and **+120°C**
- ◆ Ambient temperature between **-10°C** and **+50°C**
- ◆ Max. working pressure **25 bar**
- ◆ Continuous service **S1**

TECHNIC AL SHEET/

Model	PV
Capacity	0-48 m ³ /h
Head	0-224 m
DN	25-65 mm
Speed	3500 rpm
T max	120 °C
Power	1.1-11 kW
Voltage	220/380/400/440 V
HZ	60
Class	Class F
IP	IP 55
Duty	S1 continuous
Casing	Grey Cast iron/
Impeller	Plastic
Shaft	SS304
Shaft seal	Mechanical Seal

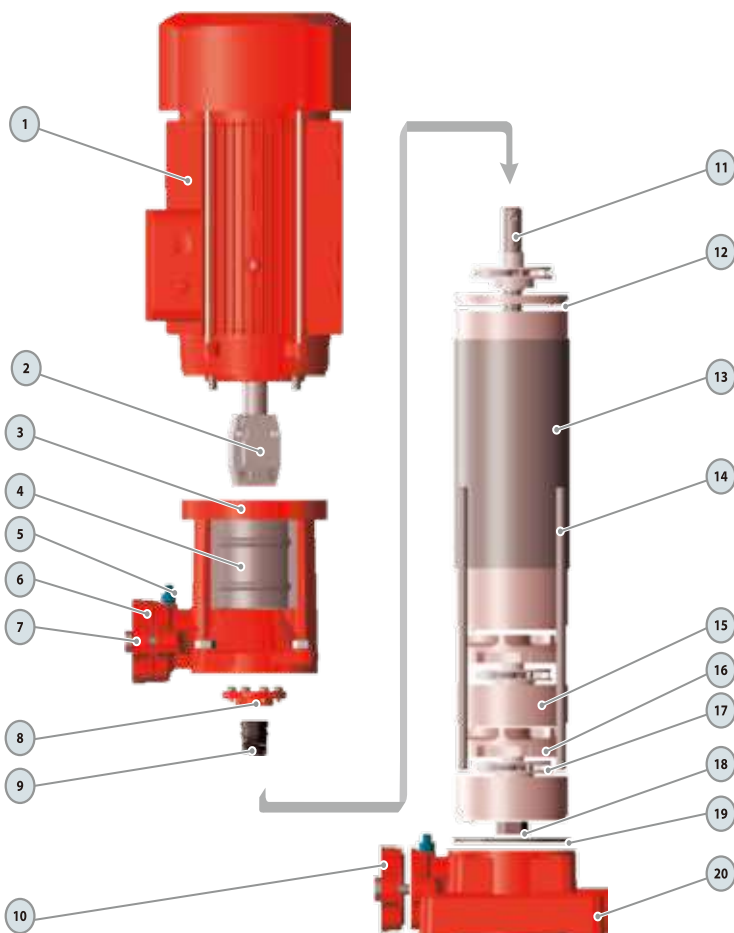
TECHNICAL DATA

60 Hz n=3500 1/min

MODEL	DN mm	Power kw hp		Q=DELIVERY/ H=Head (m)																					
				us gpm	5	11	13	16	19	21	24	26	29	32	37	42	48	53	58	63	69	74	79		
				l/min	20	40	50	60	70	80	90	100	110	120	140	160	180	200	220	240	260	280	300		
				m³/h	0	1.2	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	
PV 4x4/1.5	25x25	1.1	1.5	52	49	46	44	41	39	37	33	30	27	23											
PV 4x6/2	25x25	1.5	2	77	74	69	66	63	58	55	50	45	40	34											
PV 4x8/3	25x25	2.2	3	104	99	92	88	84	78	73	66	60	53	45											
PV 4x10/4	25x25	3	4	129	124	116	110	104	97	91	83	75	66	57											
PV 4x13/5.5	25x25	4	5.5	168	161	150	143	136	126	119	108	97	86	74											
PV 4x16/7.5	25x25	5.5	7.5	206	198	185	177	167	156	146	133	119	106	91											
PV 6x3/1.5	32x32	1.1	1.5	40				36	35	33	31	30	28	26	22	17									
PV 6x5/2	32x32	1.5	2	66				60	58	55	52	50	47	43	36	28									
PV 6x7/3	32x32	2.2	3	92				85	81	78	73	70	66	61	51	40									
PV 6x9/4	32x32	3	4	119				109	104	100	94	90	84	78	65	51									
PV 6x12/5.5	32x32	4	5.5	159				145	139	133	125	120	113	104	87	68									
PV 6x16/7.5	32x32	5.5	7.5	197				180	173	165	156	150	140	130	108	85									
PV 8x4/2	40x40	1.5	2	53						44	42	41	39	37	33	29	23	17	12						
PV 8x6/3	40x40	2.2	3	79						66	64	61	59	56	50	44	35	26	18						
PV 8x8/4	40x40	3	4	105						88	85	82	78	74	66	58	46	34	24						
PV 8x10/5.5	40x40	4	5.5	132						110	106	102	98	93	83	73	58	43	30						
PV 8x13/7.5	40x40	5.5	7.5	171						143	138	133	127	121	108	95	75	56	39						
PV 8x17/10	40x40	7.5	10	224						187	180	173	167	158	141	124	99	73	51						
PV 12x3/2	50x50	1.5	2	44								43	42	41	40	38	36	33	30	27	24	20	17		
PV 12x4/3	50x50	2.2	3	59								58	57	55	53	50	48	44	40	36	32	27	23		
PV 12x5/4	50x50	3	4	73								72	71	69	66	63	60	55	50	45	40	34	29		
PV 12x7/5.5	50x50	4	5.5	102								101	99	97	92	88	84	77	70	63	56	48	40		
PV 12x9/7.5	50x50	5.5	7.5	132								130	127	124	119	113	108	99	90	81	71	61	51		
PV 12x11/10	50x50	7.5	10	161								159	155	152	145	138	131	121	110	99	87	75	63		
PV 12x15/15	50x50	11	15	220								217	212	207	198	189	179	165	150	136	119	102	86		

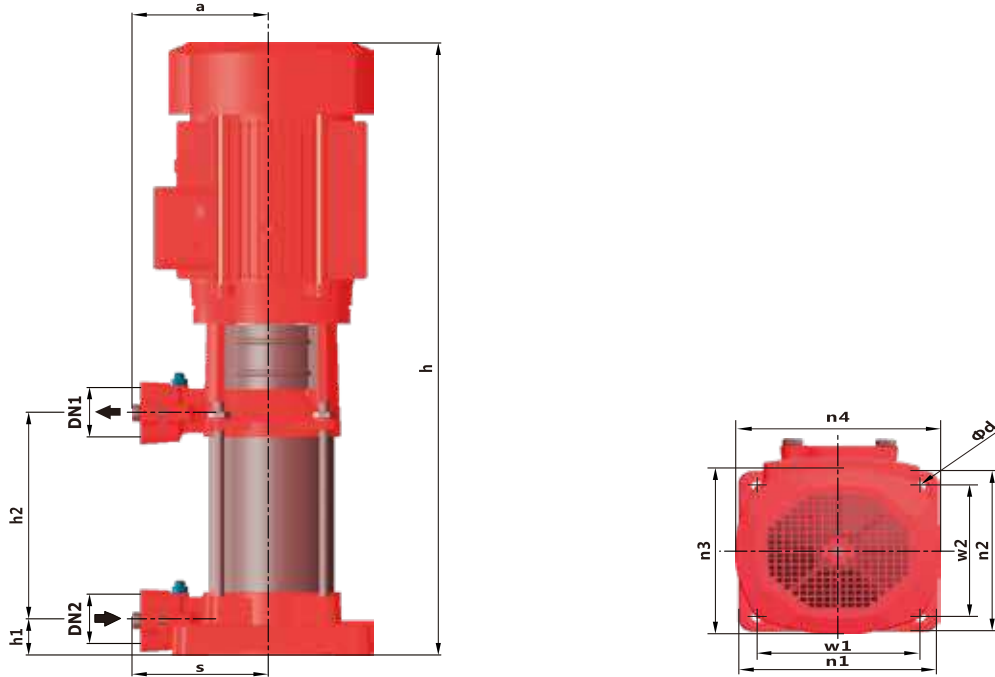
MODEL	DN mm	Power kw hp		Q=DELIVERY/ H=Head (m)							
				us gpm	0	26	53	79	106	132	159
				l/min	0	100	200	300	400	500	600
				m³/h	0	6	12	18	24	30	36
PV 30x5/10	65x65	7.5	10	105		100	93	86	78	67	54
PV 30x6/12	65x65	9.2	12.5	126		120	112	103	94	80	65
PV 30x8/15	65x65	11	15	168		158	149	138	124	106	86

MATERIAL DESCRIPTION



No.	Description	Material
1	Motor	IP55 Class F
2	Coupling	Iron
3	Discharge Body	Cast iron
4	Cover	SS304
5	Release Valve	Brass
6	Discharge	Cast iron
7	Bolt	Steel
8	Seal Cover	Cast iron
9	Mechanical Seal	SiC/Carbon/SS304
10	Suction	Cast iron
11	Pump Shaft	SS304
12	Diffuser Top Cover	Technopolimer
13	Pump Cover	SS304
14	Through Bolt	Steel
15	Diffuser Cover	Technopolimer with SS304 ring
16	Diffuser	Technopolimer with SS304 ring
17	Impeller	Technopolimer
18	Impeller Nut	Galvanized Steel
19	O-ring	Rubber
20	Suction Body	Cast iron

DIMENSIONS AND WEIGHT



MODEL	DIMENSIONS/ mm															kg	
Three-phase	DN1	DN2	N	a	s	h	h1	h2	w1	w2	n1	n2	n3	n4	d	1~	3~
PV 4×4/1.5	25/32	25/32	4	141	141	615.5	45.5	156.5	165	165	202	202	175	175	12	27.0	26.0
PV 4×6/2	25/32	25/32	6	141	141	685.5	45.5	226.5	165	165	202	202	175	175	12	32.0	31.0
PV 4×8/3	25/32	25/32	8	141	141	755.5	45.5	296.5	165	165	202	202	175	175	12	37.0	36.0
PV 4×10/4	25/32	25/32	10	141	141	872.5	45.5	366.5	165	165	202	202	195	195	12	47.0	46.0
PV 4×13/5.5	25/32	25/32	13	141	141	977.5	45.5	471.5	165	165	202	202	195	195	12	-	51.0
PV 4×16/7.5	25/32	25/32	16	141	141	1132.5	45.5	576.5	165	165	202	202	204	204	12	-	61.0
PV 6×3/1.5	25/32	25/32	3	141	141	580.5	45.5	121.5	165	165	202	202	175	175	12	26.0	25.0
PV 6×5/2	25/32	25/32	5	141	141	650.5	45.5	191.5	165	165	202	202	175	175	12	31.0	30.0
PV 6×7/3	25/32	25/32	7	141	141	720.5	45.5	261.5	165	165	202	202	175	175	12	36.0	35.0
PV 6×9/4	25/32	25/32	9	141	141	837.5	45.5	331.5	165	165	202	202	195	195	12	46.0	45.0
PV 6×12/5.5	25/32	25/32	12	141	141	942.5	45.5	436.5	165	165	202	202	195	195	12	-	50.0
PV 6×16/7.5	25/32	25/32	16	141	141	1132.5	45.5	576.5	165	165	202	202	204	204	12	-	60.0
PV 8×4/2	40/50	40/50	4	141	141	615.5	45.5	156.5	165	165	202	202	175	175	12	30.0	29.0
PV 8×6/3	40/50	40/50	6	141	141	685.5	45.5	226.5	165	165	202	202	175	175	12	35.0	34.0
PV 8×8/4	40/50	40/50	8	141	141	802.5	45.5	296.5	165	165	202	202	195	195	12	45.0	44.0
PV 8×10/5.5	40/50	40/50	10	141	141	872.5	45.5	366.5	165	165	202	202	195	195	12	-	49.0
PV 8×13/7.5	40/50	40/50	13	141	141	1027.5	45.5	471.5	165	165	202	202	204	204	12	-	59.0
PV 8×17/10	40/50	40/50	17	141	141	1167.5	45.5	611.5	165	165	202	202	204	204	12	-	64.0
PV 12×3/2	40/50	40/50	3	141	141	580.5	45.5	121.5	165	165	202	202	175	175	12	28.0	27.0
PV 12×4/3	40/50	40/50	4	141	141	615.5	45.5	156.5	165	165	202	202	175	175	12	33.0	32.0
PV 12×5/4	40/50	40/50	5	141	141	697.5	45.5	191.5	165	165	202	202	195	195	12	41.0	40.0
PV 12×7/5.5	40/50	40/50	7	141	141	767.5	45.5	261.5	165	165	202	202	195	195	12	-	45.0
PV 12×9/7.5	40/50	40/50	9	141	141	887.5	45.5	331.5	165	165	202	202	204	204	12	-	55.0
PV 12×11/10	40/50	40/50	11	141	141	957.5	45.5	401.5	165	165	202	202	204	204	12	-	62.0
PV 12×15/15	40/50	40/50	15	141	141	1127.5	45.5	541.5	165	165	202	202	260	260	12	-	80.0
PV 30×5/10	50/65	50/65	5	170	170	939	62	309	187	187	230	230	260	260	12	-	84.0
PV 30×6/12	50/65	50/65	6	170	170	993	62	362.5	187	187	230	230	260	260	12	-	90.0
PV 30×8/15	50/65	50/65	8	170	170	1100	62	469.5	187	187	230	230	260	260	12	-	97.0



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This chapter contains all Information related to Electric Motor includes technical data, material description and dimensions.

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Chapter5

ELECTRIC MOTOR



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MODEL CODE/

For example/

IE3 - 160 (S/M/L) 2/1-2/4

→ **2**=2 poles motor 3500rpm

→ Stator size code

2=Longer size

1=Long size

Blank:Standard size

→ Frame length code

S=Short size

M=Middle size

L=Long size

→ **160**=Motor frame size(mm)

→ **IE3**=IE3 high efficient motor

IE3

Electric motor TEFC type



DESCRIPTION/

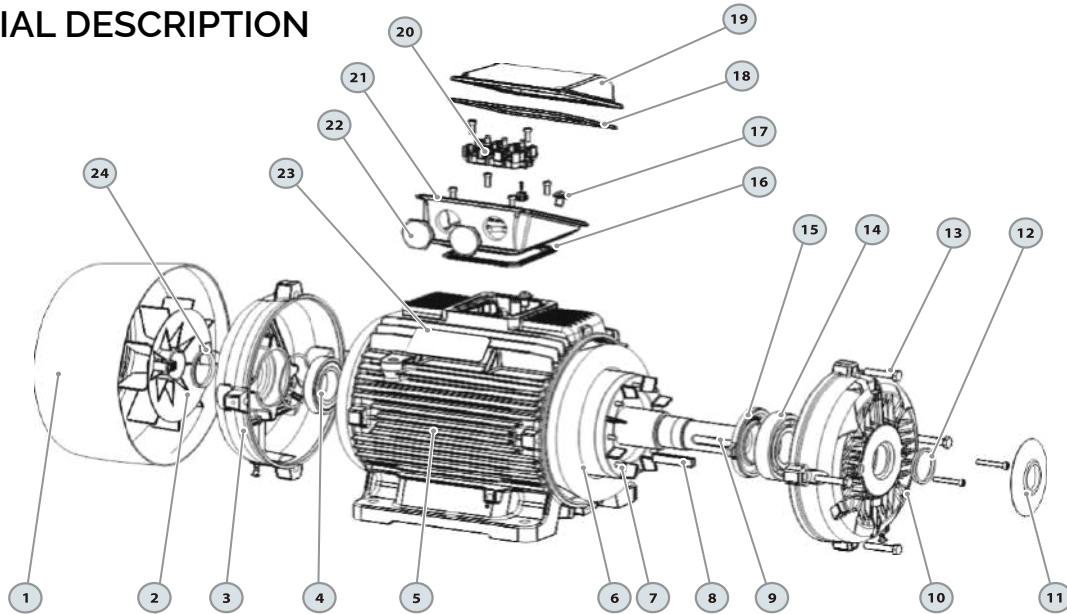
- ◆ Design according to IEC60034 standard
- ◆ TOTAL ENCLOSED FAN COOLING TYPE motor
- ◆ IE3 high efficient motor
- ◆ Protection IP55 class F
- ◆ Quality NSK bearing
- ◆ Continuous duty S1
- ◆ Reliable used for fire fighting system etc.
- ◆ Ambient temperature up to +50°C
- ◆ Cooling type : IC411

TECHNICAL DATA

60 Hz n=3500 1/min

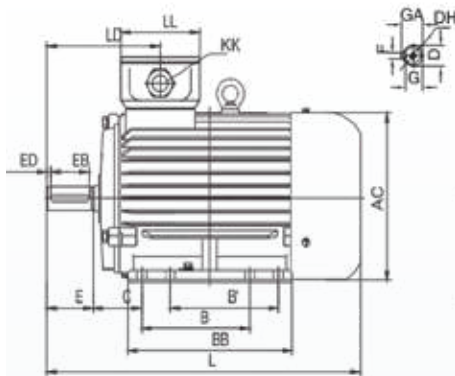
MODEL	Power		RPM	η	η	η	$\cos \Phi$	A			Nm	Ts/Tn	Tmax/Tn	Is/In	dB(A)	Kgs
	kw	hp						220V	380V	660V						
IE3-801-2	0.75	1	3500	80.7	80.7	79.1	0.82	2.9	1.7	1	2.49	2.3	2.3	7	73	18.1
IE3-802-2	1.1	1.5	3500	82.7	82.7	81	0.83	4.2	2.4	1.4	3.65	2.2	2.3	7.3	73	19.5
IE3-90S-2	1.5	2	3500	84.2	84.2	82.5	0.84	5.5	3.2	1.8	4.95	2.2	2.3	7.6	76	23.3
IE3-90L-2	2.2	3	3500	85.9	85.9	84.2	0.85	8	4.6	2.7	7.26	2.2	2.3	7.6	77	27.1
IE3-100L-2	3	4	3500	87.1	87.1	85.4	0.87	10.4	6	3.5	9.9	2.2	2.3	7.8	79	38.8
IE3-112M-2	4	5.5	3500	88.1	88.1	86.3	0.88	13.5	7.8	4.5	13.1	2.2	2.3	8.3	80	48.3
IE3-132S1-2	5.5	7.5	3500	89.2	89.2	87.4	0.88	18.4	10.6	6.1	17.9	2	2.3	8.3	83	55.1
IE3-132S2-2	7.5	10	3500	90.1	90.1	88.3	0.88	24.9	14.4	8.3	24.4	2	2.3	7.9	84	69.2
IE3-132M-2	9.2	12.5	3500	91.0	91.0	89.4	0.88	31.2	18	10.4	30.1	2	2.3	7.9	85	85.5
IE3-160M1-2	11	15	3500	91.2	91.2	89.4	0.89	35.7	20.6	11.9	35.7	2	2.3	8.1	87	113
IE3-160M2-2	15	20	3500	91.9	91.9	90.1	0.89	48.3	27.9	16.1	48.6	2	2.3	8.1	87	123
IE3-160L-2	18.5	25	3500	92.4	92.4	90.6	0.89	59.2	34.2	19.7	60.1	2	2.3	8.2	90	142
IE3-180M-2	22	30	3500	92.7	92.7	90.8	0.89	70.1	40.5	23.4	71.1	2	2.3	8.2	90	182
IE3-200L1-2	30	40	3500	93.3	93.3	91.4	0.89	95	54.9	31.7	96.8	2	2.3	7.6	91	246
IE3-200L2-2	37	50	3500	93.7	93.7	91.8	0.89	117	67.4	38.9	119.4	2	2.3	7.6	91	265
IE3-225M-2	45	60	3500	94	94	92.1	0.9	140	80.8	46.7	144.9	2	2.3	7.7	93	323
IE3-250M-2	55	75	3500	94.3	94.3	92.4	0.9	171	98.5	56.9	176.9	2	2.3	7.7	93	413
IE3-280S-2	75	100	3500	94.7	94.7	92.8	0.9	232	134	77.4	240.8	1.8	2.3	7.1	94	546
IE3-280M-2	90	125	3500	95	95	93.1	0.9	277	160	92.4	288.9	1.8	2.3	7.1	94	569
IE3-315S-2	110	150	3500	95.2	95.2	93.3	0.9	338	195	113	352.8	1.8	2.3	7.1	94	897
IE3-315M-2	132	180	3500	95.4	95.4	93.5	0.9	405	234	135	423.3	1.8	2.3	7.1	95	1029
IE3-315L1-2	160	220	3500	95.6	95.6	93.7	0.91	483	279	161	512.8	1.8	2.3	7.2	95	1067
IE3-315L2-2	200	270	3500	95.8	95.8	93.9	0.91	604	349	202	640.9	1.8	2.2	7.2	95	1194
IE3-355M-2	250	340	3500	95.8	95.8	93.9	0.91	755	436	252	800.6	1.6	2.2	7.2	103	1685
IE3-355L-2	315	430	3500	95.8	95.8	93.9	0.91	951	549	317	1009	1.6	2.2	7.2	103	1734

MATERIAL DESCRIPTION

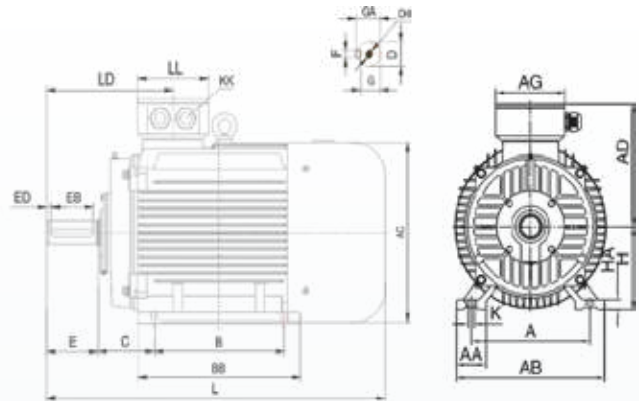


No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Fan cover	Iron	9	Shaft	45# Steel	17	Screw	Steel
2	Fan	Plastic	10	Front endshield	Cast iron	18	Gasket	Rubber
3	Rear endshield	Cast iron	11	Bearing cap	Cast iron	19	Terminal box cover	Aluminum
4	Rear bearing	Ball Bearing	12	Seal	Rubber	20	Terminal board	Plastic
5	Frame	Cast iron	13	Bolt	Steel	21	Terminal box	Aluminum
6	Wound Stator	Silicon Steel/Copper	14	Front bearing	Ball Bearing	22	Terminal box plug	Plastic
7	Rotor	Silicon Steel	15	Internal bearing cap	Cast iron	23	Nameplate	Aluminum
8	Key	Iron	16	Gasket	Rubber	24	Seal	Rubber

DIMENSIONS AND WEIGHT



80-132

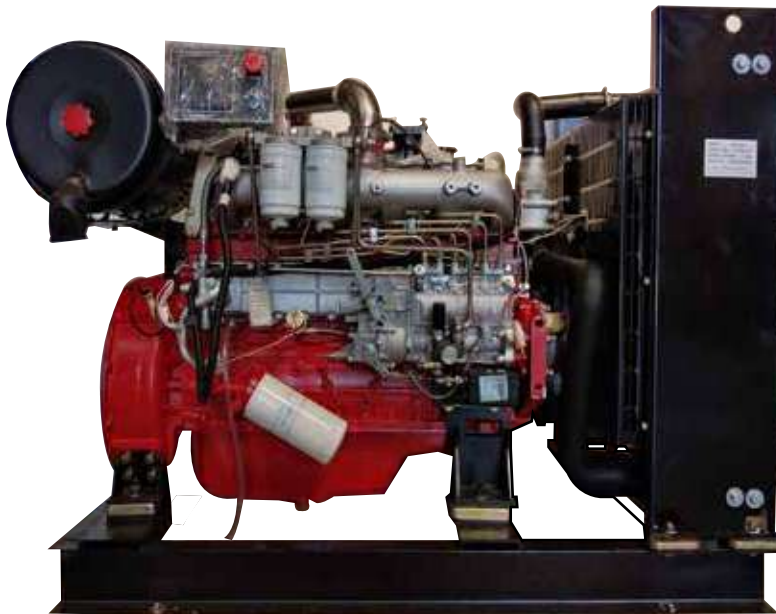


160-355

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



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This chapter contains all Information related
to Diesel Engine of all types.

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Chapter6

DIESEL ENGINE

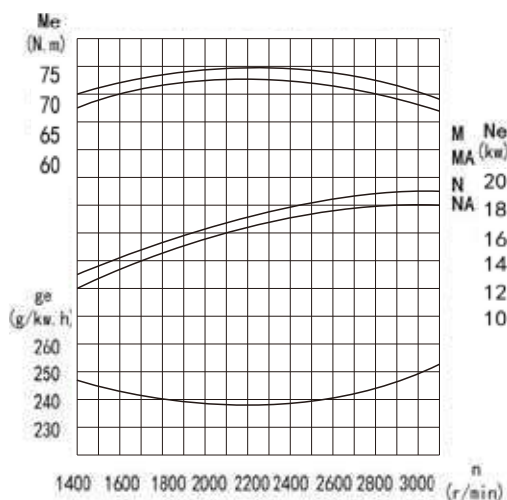


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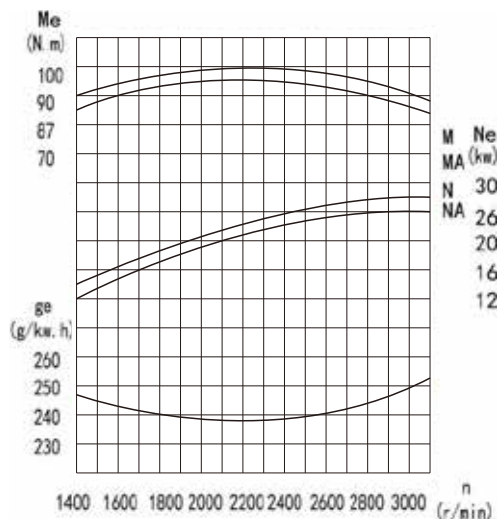


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LN380B



Model		LN380B
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		3
Bore X Stroke	Mm	80x90
Combustion Method		Direction Injection
Aspiration		Natural Aspiration
Compression Ratio		18:1
Displacement L		1.357
Rated Power/speed	Kw/rpm	20/3000
Max. Torque	N.m	≤77
Max. Torque Speed	Rpm	1600-2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥850
Fuel Consumption	G/kw.h	≤240
Lubricating Consumption Rate	G/kw.h	≤1.12
Fire Turn		1-3-2
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	225
Measurement: LxWxH (engine Only)	Mm	582x494x630
Fuel Tank Capacity	L	20/40

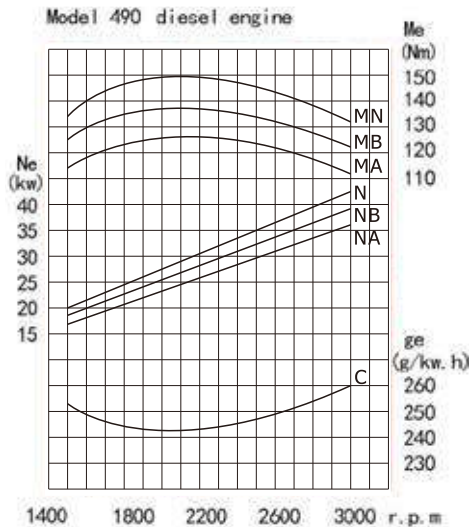


LN480B

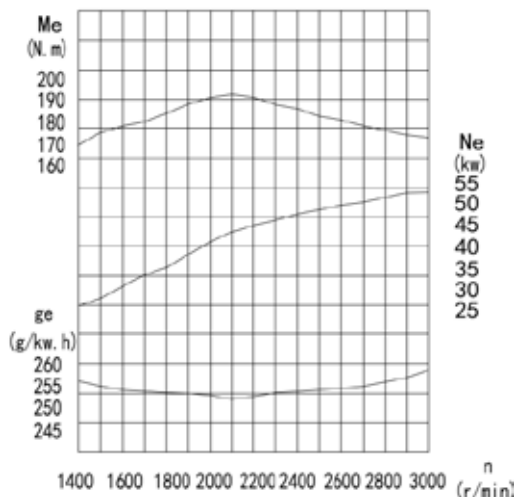


Model		LN480B
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		4
Bore X Stroke	Mm	80x90
Combustion Method		Direction Injection
Aspiration		Natural Aspiration
Compression Ratio		18:1
Displacement L		1.8
Rated Power/speed	Kw/rpm	28/3000
Max. Torque	N.m	≤118
Max. Torque Speed	Rpm	1600-2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥800
Fuel Consumption	G/kw.h	≤225
Lubricating Consumption Rate	G/kw.h	≤1.05
Fire Turn		1-3-4-2
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	225
Measurement: LxWxH (engine Only)	Mm	687x494x630
Fuel Tank Capacity	L	20/40

LN490KB



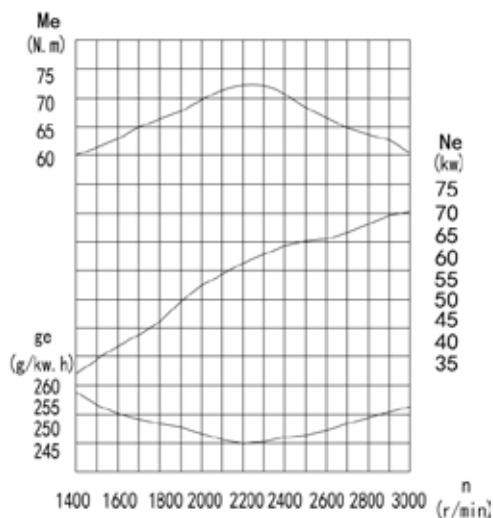
Model		LN490KB
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		4
Bore X Stroke	Mm	90x100
Combustion Method		Direction Injection
Aspiration		Natural Aspiration
Compression Ratio		18:1
Displacement L		2.54
Rated Power/speed	Kw/rpm	40/3000
Max. Torque	N.m	≤155
Max. Torque Speed	Rpm	1600-2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥800
Fuel Consumption	G/kw.h	≤240
Lubricating Consumption Rate	G/kw.h	≤1.05
Fire Turn		1-3-4-2
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	280
Measurement: LxWxH (engine Only)	Mm	696x492x650
Fuel Tank Capacity	L	20/40



LN490BZ



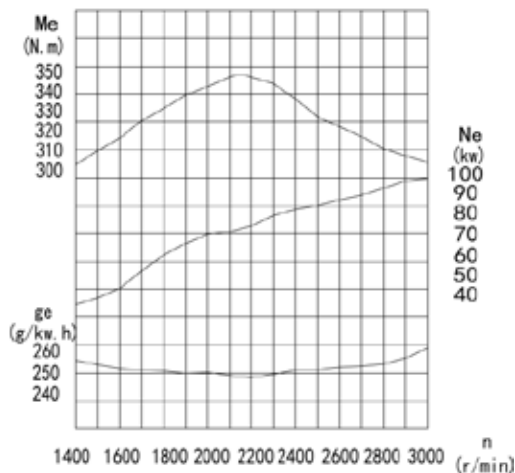
Model		LN490BZ
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		4
Bore X Stroke	Mm	90x105
Combustion Method		Direction Injection
Aspiration		Tubo Charged
Compression Ratio		18:1
Displacement L		2.672
Rated Power/speed	Kw/rpm	55/3000
Max. Torque	N.m	≤192
Max. Torque Speed	Rpm	1600-2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥750
Fuel Consumption	G/kw.h	≤230
Lubricating Consumption Rate	G/kw.h	≤1.05
Fire Turn		1-3-4-2
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	325
Measurement: LxWxH (engine Only)	Mm	716x632x790
Fuel Tank Capacity	L	20/40



LN4102BZ



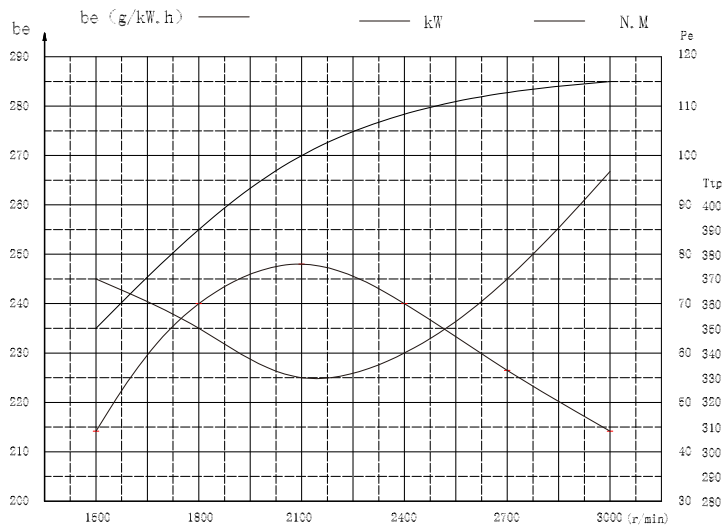
Model		LN4102BZ
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		4
Bore X Stroke	Mm	102x118
Combustion Method		Direction Injection
Aspiration		Tubo Charged
Compression Ratio		17.5:1
Displacement L		3.857
Rated Power/speed	Kw/rpm	72/3000
Max. Torque	N.m	≤296
Max. Torque Speed	Rpm	1600-2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥800
Fuel Consumption	G/kw.h	≤250
Lubricating Consumption Rate	G/kw.h	≤1.2
Fire Turn		1-3-4-2
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	405
Measurement: LxWxH (engine Only)	Mm	789x680x820
Fuel Tank Capacity	L	20/40



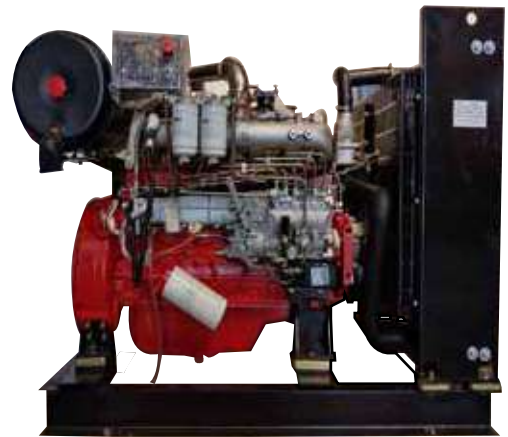
LN4108BZL



Model		LN4108BZL
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		4
Bore X Stroke	Mm	108x118
Combustion Method		Direction Injection
Aspiration		Tubo Charged, Intercooling
Compression Ratio		17.5:1
Displacement L		4.324
Rated Power/speed	Kw/rpm	100/3000
Max. Torque	N.m	≤420
Max. Torque Speed	Rpm	1600-2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥800
Fuel Consumption	G/kw.h	≤250
Lubricating Consumption Rate	G/kw.h	≤1.2
Fire Turn		1-3-4-2
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	425
Measurement: LxWxH (engine Only)	Mm	789x680x860
Fuel Tank Capacity	L	20/40

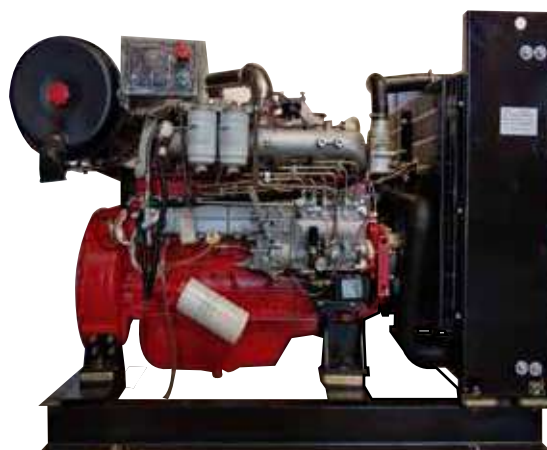
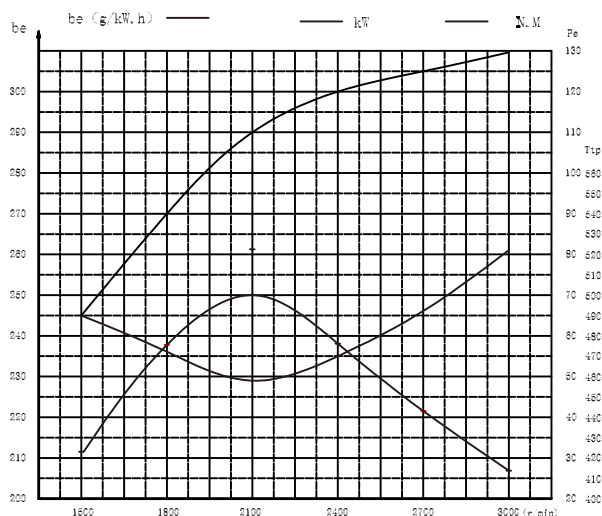


LN6BD-G

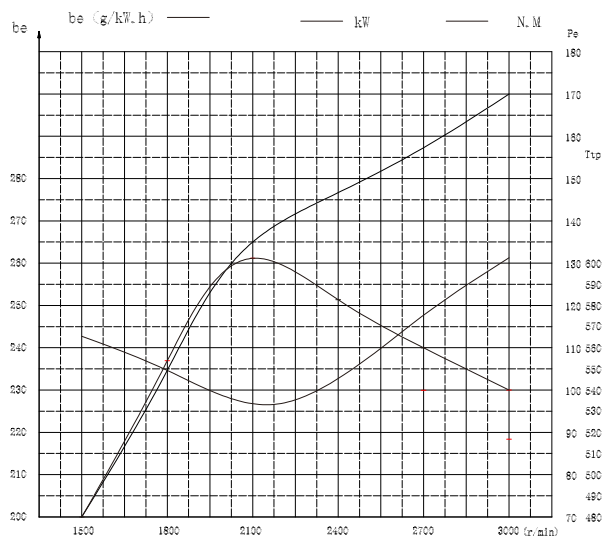


Model		LN6BD-G
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		6
Bore X Stroke	Mm	102x118
Combustion Method		Direction Injection
Aspiration		Natural Aspiration
Compression Ratio		17.5:1
Displacement L		5.785
Rated Power/speed	Kw/rpm	110/3000
Max. Torque	N.m	≤360
Max. Torque Speed	Rpm	2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥750
Fuel Consumption	G/kw.h	≤228
Lubricating Consumption Rate	G/kw.h	≤1.62
Fire Turn		1-5-3-6-2-4
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	342
Measurement: LxWxH (engine Only)	Mm	985x545x961
Fuel Tank Capacity	L	NA

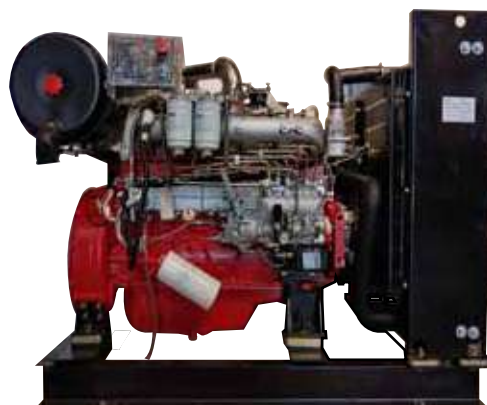
LN6BD-Z



Model		LN6BD-Z
Type		Vertical in-line, Water Cooling, 4 Strokes
Cylinder Number		6
Bore X Stroke	Mm	102x118
Combustion Method		Direction Injection
Aspiration		Turbo Charge
Compression Ratio		17.5:1
Displacement L		5.785
Rated Power/speed	Kw/rpm	130/3000
Max. Torque	N.m	≤450
Max. Torque Speed	Rpm	2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥750
Fuel Consumption	G/kw.h	≤245
Lubricating Consumption Rate	G/kw.h	≤1.62
Fire Turn		1-5-3-6-2-4
Rotate Direction		Antilockwise
Cooling Method		Forced Circle Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	568
Measurement: LxWxH (engine Only)	Mm	1068x652x1081
Fuel Tank Capacity	L	NA



LN6BD-WL



Model		LN6BD-WL
Type		Vertical h-line, Water Cooling 4 Strokes
Cylinder Number		6
Bore X Stroke	Mm	102x118
Combustion Method		Direction Injection
Aspiration		Turbo Charge
Compression Ratio		17.5:1
Displacement L		5.78
Rated Power/speed	Kw/rpm	170/3000
Max. Torque	N.m	≤560
Max. Torque Speed	Rpm	2100
Max. Unloaded Speed	Rpm	3300
Min. Unloaded Speed	Rpm	≥750
Fuel Consumption	G/kw.h	≤248
Lubricating Consumption Rate	G/kw.h	≤1.02
Fire Turn		1-5-3-6-2-4
Rotate Direction		Antilockwise
Cooling Method		Inter Water Cooling
Lubricating Method		Force And Splash Lubricating
Start Method		Electrical Start
Net Weight	KG	568
Measurement: LxWxH (engine Only)	Mm	1068x652x1081
Fuel Tank Capacity	L	NA



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This chapter contains all Information related
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CONTROL PANELS



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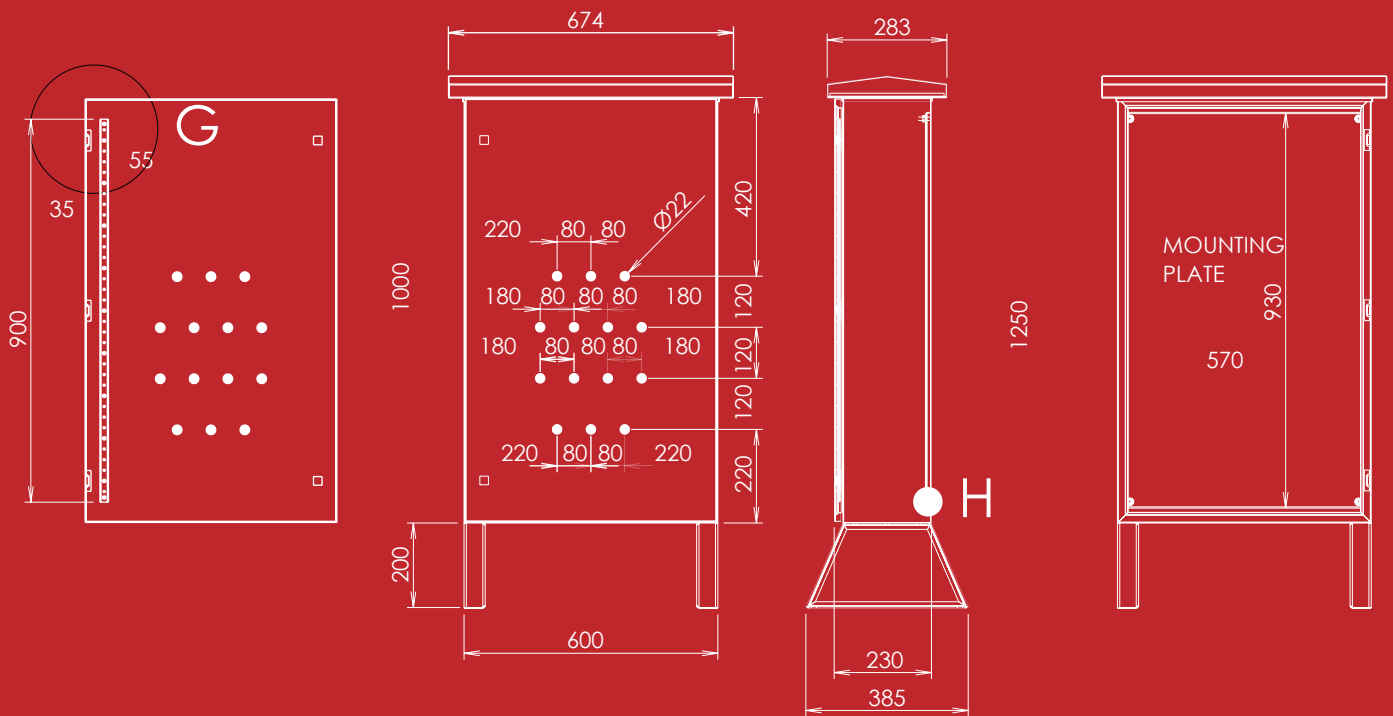
«**ANC**» Fire Pump Unit Controller is the Pump Package brain that designed to Control & Monitor the operation of the Main, Standby, and Jockey pumps Drivers, and makes up pumps for both Manual & Automatic modes, as well as turns pumps drivers ON/OFF under specific conditions.

The Fire Pump Package Controller detects signals through set of built in switches that reflect the system Pressure & Flow status enabling fire pump package drivers (Electrical /Diesel /Jockey) to operate in case of pressure in the system is lower than set point, as well as operating the Stand by driver due to power failure and/or substantial drop in pressure. ANC Pumps Series Controllers are pre-wired, and factory tested before deliver and made ready for immediate usage.

Pump Controller Features

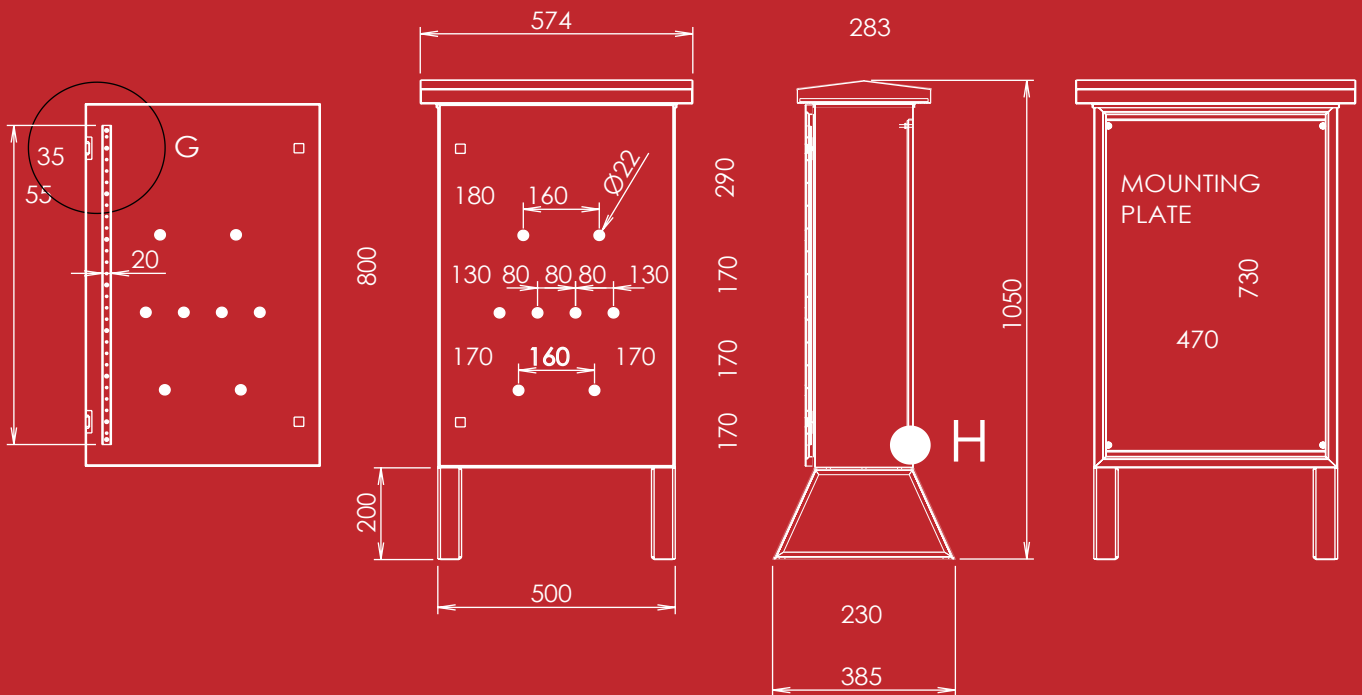
- Standard Dry Run Protection (above 100 GPM pumps).
- DOL – (Below 60 HP Motor Size) / Star Delta Starter
- Circuit available up on request.
- Different Mounting Styles.
- Low Maintenance Cost and available spare parts.
- Standard cable marking for easy maintenance.
- Low Pressure cut-off (timer based) (optional).
- Automatic or manual (test) operation.
- Compatible with any remote signaling or monitoring systems like BMS OR FACP.
- Electronic battery charger (current sensing).
- Lamp test facility (optional).
- Fault Trip facility (other than dry run - optional).
- Crank protection circuit for diesel engine (optional).
- Delayed start for fire signal (optional).
- Strong, Reliable and Elegant Standard Red Powder Coated Galvanized Steel Enclosure.
- Stainless Steel Enclosures are available for outdoor applications (Optional).

Model A Dimensions



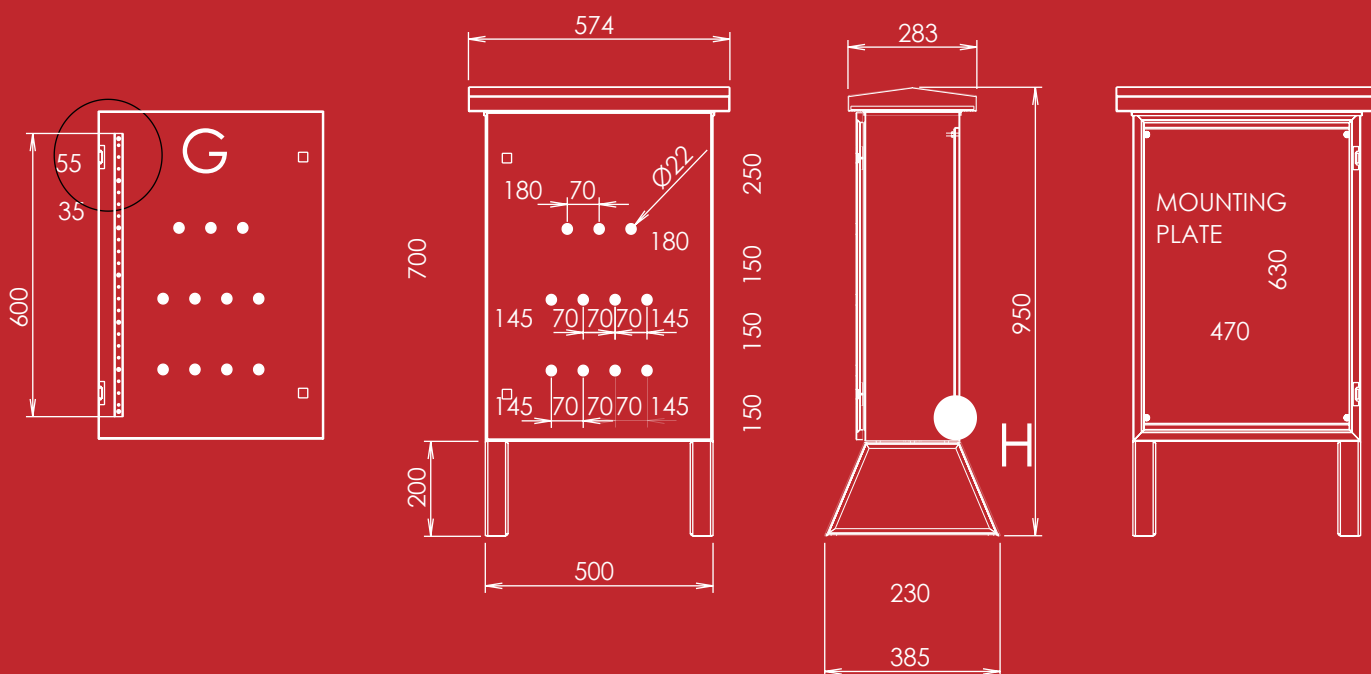
E.J.D CONTROL PANNEL

Model B Dimensions



E.J CONTROL PANNEL

Model C Dimensions



D.J CONTROL PANNEL



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This chapter contains all Information related
to Pump Accessories of all types.

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PUMP ACCESSORIES



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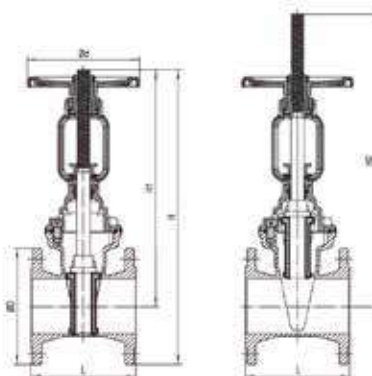
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OS&Y gate valve-flange end

Model No. 1201



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



Technical data >

- Sizes: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80 °C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	ΦD	L	H1	H2	H	Φd
50	2	16	165	150	358.5	420.5	441	203
		25						
65	2.5	16	185	170	359.5	429.5	452	203
		25						
80	3	16	200	180	378	462	478	203
		25						
100	4	16	220	190	449.5	553	559.5	203
		25	235				567	
125	5	16	250	200	549.5	677	674.5	300
		25	270				684.5	
150	6	16	285	210	591.5	747	734	300
		25	300				741.5	
200	8	16	340	230	735.5	938	905.5	330
		25	360				915.5	
250	10	16	400	250	900.5	1161	1100.5	406
		25	425				1113	
300	12	16	455	270	1045.5	1353	1273	406
		25	485				1288	

Pressure Switch



Main

Range of product	OsiSense XM
Pressure sensor type	Electromechanical pressure sensor
Pressure sensor name	XMP
Pressure sensor size	12 bar
Fluid connection type	G 1/4 (female) conforming to ISO 228
Controlled fluid	Air (0...70 °C) Fresh water (0...70 °C) Sea water (0...70 °C)
Cable entry	2 entries incorporating Pg 13.5 plastic cable gland, cable outer diameter: 9...13 mm conforming to NF C 68-300
Contacts type and composition	2 NC snap action
Product specific application	-
Pressure switch type of operation	Regulation between 2 thresholds
Electrical connection	Screw-clamp terminals, clamping capacity: minimum : 2 x 4 mm ²
Electrical circuit type	Power circuit
Scale type	Adjustable differential
Local display	Without
Sale per indivisible quantity	1

Complementary

Adjustable range of switching point on falling pressure	0.3...10.3 bar
Adjustment range high setting	1.3...12 bar
Possible differential minimum at low setting	1 bar
Possible differential minimum at high setting	1.7 bar
Possible differential maximum at high setting	8.4 bar
Destruction pressure	30 bar
Type of decompression valve	Without
Control type	Without
Terminal block type	4 terminals
Pressure actuator	Diaphragm
Materials in contact with fluid	Canvas covered nitrile Chromated zinc alloy
Enclosure material	PA impregnated with fibreglass
Operating position	Any position
Operating rate	10 cyc/mn
Repeat accuracy	< 3.5 %
[Ui] rated insulation voltage	500 V conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3 <= 25 MOhm conforming to NF C 93-050 method A

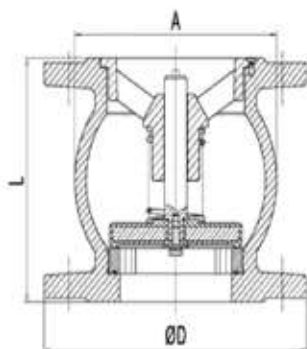


Pressure Gauge

	MODELS	SPECIFICATIONS
Case	15-910, 25-900, 25-910	ABS (Acryl Nitril Butadien Styrol)
	25-901, 25-911, 40-901, 40-911	304 Stainless steel
Bezel	25-901, 25-911, 40-901, 40-911	304 Stainless steel
Lens	15-910, 25-900, 25-910	Acrylic; ultrasonically welded to the case
	25-901, 25-911	Polycarbonate
	40-901, 40-911	Instrument glass
Bourdon tube	15-910, 25-900, 25-910, 25-901, 25-911, 40-901, 40-911 (up to 600 psi)	Phosphor bronze C-Type Bourdon tube
	15-910, 25-900, 25-910, 25-901, 25-911, 40-901, 40-911 (> 600 psi)	Coiled safety tube
Connection	15-910	1/8" NPT brass
	25-900, 25-910, 25-901, 25-911	1/4" NPT brass or 7/16"-20 adjustable
	40-901, 40-911	1/4" NPT brass, 1/2" NPT brass or 7/16"-20 adjustable
Movement	15-910, 25-900, 25-910, 25-901, 25-911,	Brass and nylon with highly polished bearing surfaces
Safety protection	15-910, 25-900, 25-910	Safety relief disc on the back of the case
	25-901, 25-911, 40-901, 40-911	Safety relief disc on the top of the case
Accuracy	15-910, 20-901, 20-911	± 2.5% full scale ASME B40.1 Grade B
	25-900, 25-910, 25-901, 25-911	± 1.5% full scale ASME B40.1 Grade A
	40-901, 40-911	± 1% full scale ASME B40.1 Grade 1A
Pointer	15-910, 25-900, 25-910, 25-901, 25-911	Molded plastic
	40-901, 40-911	Balanced aluminum, black finish
Dial	15-910, 25-900, 25-910, 25-901, 25-911	Molded plastic, white background with black psi scale and red kPa scale. UV resistant
	40-901, 40-911	Aluminum, white background, dual scale psi – kPa. black psi scale and Red kPa scale. UV resistant
Fill liquid	15-910, 25-900, 25-910, 25-901, 25-911, 40-901, 40-911	Glycerine and water

Flange Check Valve

Name of parts	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron+EPDM
Support	Bronze
Shaft	Stainless Steel
Spring	Stainless Steel



Technical data >

- Sizes: DN50~200
- Working pressure: PN10/16/25
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Model No. 702



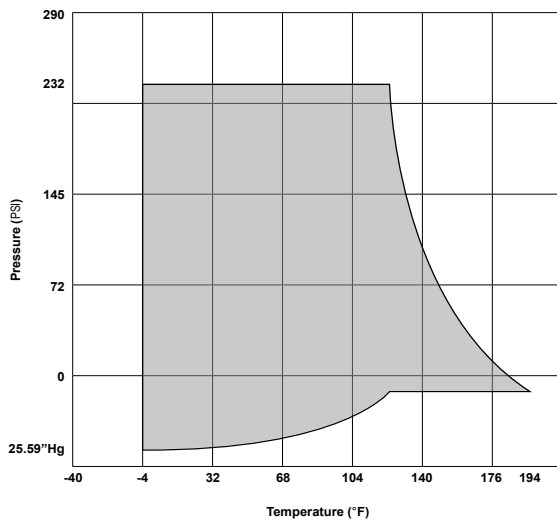
Dimensions		Pressure rating	Size (mm)		
DN	inch	PN	φD	L	A
50	2	PN10/16	165	100	98
		PN25			
65	2.5	PN10/16	185	120	124
		PN25			
80	3	PN10/16	200	140	146
		PN25			
100	4	PN10/16	220	170	180
		PN25			
125	5	PN10/16	250	200	220
		PN25			
150	6	PN10/16	285	230	256
		PN25			
200	8	PN10/16	340	288	330
		PN25			

Flexible



Flexible connectors are used to absorb thermal and seismic movement, absorb hydraulic shock, provide vibration and noise dampening, ease installation and correct minor misalignment of piping and components. They come in a variety of sizes, materials, and connection ends for numerous applications.

Pressure / Temperature*



Ratings

Max. Working Pressure	232 PSI
Test Pressure	348 PSI
Burst Pressure @ 80°F	850 PSI
Vacuum Rating	25.59"Hg (650 Torr)
Operating Temperature	-4°F to 194°F

Part Numbers & Weight

Size	Part Number	Approx. Wt (Lbs)
2-1/2	FNW40L	14.74
3	FNW40M	16.50
4	FNW40P	18.26
5	FNW40S	23.98
6	FNW40U	31.68
8	FNW40x	42.24
10	FNW4010	55.00

Dimensions (inches)

Size	ØC	ØD	F	L1	ØBC	ØBH	N	T
2-1/2	7.0	2.68	4.17	6.0	5.50	0.75	4	0.71
3	7.5	2.99	4.57	6.0	6.00	0.75	4	0.71
4	9.0	4.06	5.91	6.0	7.50	0.75	8	0.71
5	10.0	5.04	7.09	6.0	8.50	0.87	8	0.79
6	11.0	5.98	8.23	6.0	9.50	0.87	8	.87
8	13.5	7.64	10.24	6.0	11.75	0.87	8	.87
10	16.0	9.84	12.60	8.0	14.25	1.00	12	.94

Standard Materials

Ref. No.	Description	Material
1	Flange	Carbon Steel
2	Reinforcement Wire	Carbon Steel
3	Reinforcement Fabric	Synthetic Fiber
4	Elastomer Sleeve	EPDM



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This chapter contains all Information related
to Pump Supplies of all types.

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Chapter9

PUMP SUPPLIES



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OS&Y gate valve-flange end

Model No. 1201



Please see Chapter 8 for more details

Alarm Valve / Flanged End

Technical Feature

Connection : Flanged Ends (ANSI B16.1 FF Class 150)

Size : 4" , 6" , 8"

Approvals: UL, FM

Maximum Working Pressure: 4", 6":300PSI, 8" : 250PSI

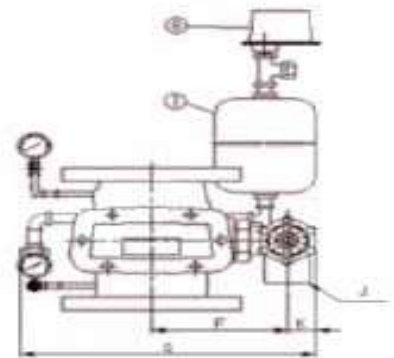
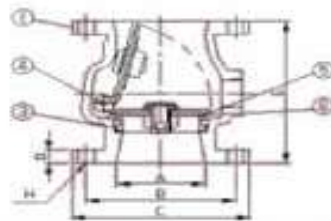
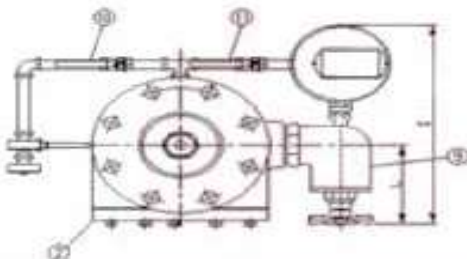
Maximum Working Temperature : 250F (120 C)

Application : Indor Outdoor Use

Double-Steal Dise : Resilient EPDM Coating



Component	Material	Specification
Body	Dctile Iron(8") Cast Iron(4",6")	—
Cover	Dctile Iron(8") Cast Iron(4",6")	—
Seat Ring	Bronze	—
Disc & Arm	STS304	—
Disc Seat	Viiton/e	—
Retarding Chamber	SPCC/SPPS	—
Pressure switch	—	—
Drain Valve	Cost Iron/Brass	—
Alarm Test Valve	Brass	—
Alarm Shut-off Valve	Brass	—



Size/mm(Inch)	A	B	C	D	E	F	G	H	I	J	K	L
100 (4")	100	175	210	24	250	169	415	8-19D	376	50A	50	153
150 (6")	150	240	280	26	280	199	480	8-23D	391	50A	50	153
200 (8")	200	298	343	28.5	350	255	650	8-23D	500	50A	75	320

Fire Department Connection

Designed to provide supplemental water to a building's fire protection system. Typically, these units are wall mounted.

250 GPM per inlet

300 PSI rated (#320 & #321)

175 PSI rated (#322, #330, & #331)

- Our Exposed FDCs come furnished with body, wall plate, and plugs & chains.
- 4" 2-Way units have single swing clapper, all other units utilize individual drop clappers on each inlet.



Part #	Type	Size & Configuration	A	B	C	PSI
320	2-Way	4" F NPT x 2½" x 2½"	6½"	9¼"	9½"	300
321	2-Way	4" Groove x 2½" x 2½"	6½"	9¼"	9½"	300
322	2-Way	6" F NPT x 2½" x 2½"	9¼"	13"	12"	175
330	3-Way	4" F NPT x 2½" x 2½" x 2½"	10¾"	13¾"	9½"	175
331	3-Way	6" F NPT x 2½" x 2½" x 2½"	10¾"	13¾"	12"	175

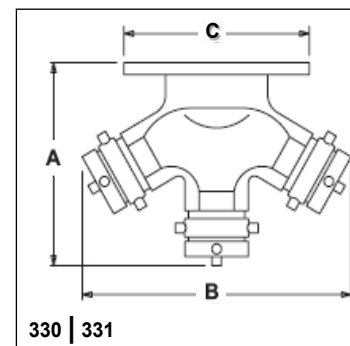
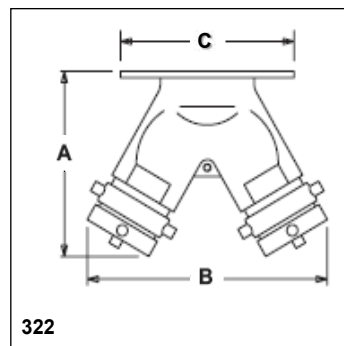
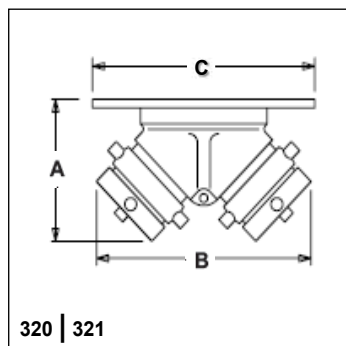
Specify Finish:

- ☐ -RB Rough Brass
- ☐ -AL Rough Brass w/ Red Plate
- ☐ -PB Polished Brass
- ☐ -PC Polished Chrome

Specify Wall Plate Lettering:

- ☐ -A Auto Spkr
- ☐ -S Standpipe
- ☐ -SA Standpipe & Auto Spkr
- ☐ -DS Dry Standpipe

- 321 Available in rough brass only.



Foot Valve & Brass Foot Valve

Sizes :2"~12"

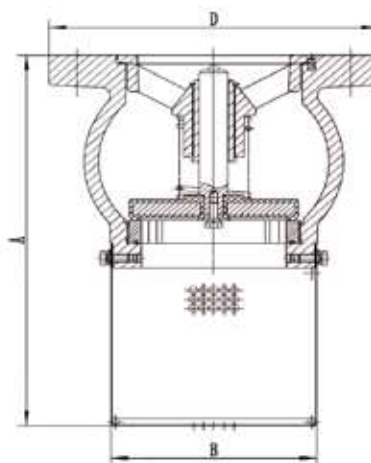
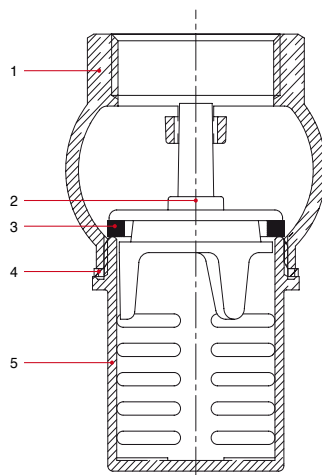
Working pressure: 300PSI

Flange standard: ASME-B16.1 Class125

Temperature range: 0 ~ 80℃



Name of parts	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron+EPDM
Support	Bronze/DI
Shaft	Stainless Stell
Spring	Stainless Stell



Dimensions		Pressure rating	Size (mm)		
DN	inch	psi	D	A	B
50	2	300	152	153	83
65	2.5	300	178	195	103
80	3	300	191	237	120
100	4	300	229	295	143
150	6	300	279	431	196
200	8	300	343	574	248

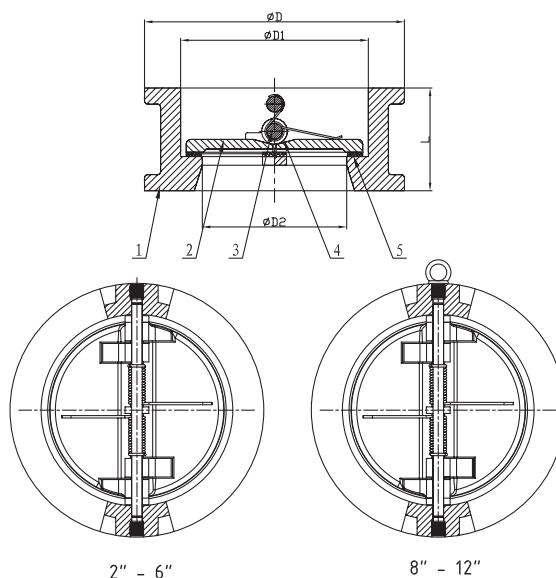
POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Brass CW617N
2	Plate	1	Brass CW617N
3	Washer	1	NBR
4	Washer	1	Fibre
5	Strainer	1	Brass CC75TS

Check Valve



Technical Features

- Sizes available (Nominal) : DN50/2", DN65/2", DN80/3", DN100/4", DN 125/5", DN150/6", DN200/8", DN250/10" and DN300/12"
- Pressure data :
Nominal Pressure : 16 bar (235 psi).
- Finish : Fusion bonded epoxy coated internal and external.
- Connections : designed to fit between the mating flanges in accordance with EN 1092 PN16



Double Door Check Valve - Wafer - DDW

Physical Data

Nominal Pipe Size		Dimensions (mm/inch) by Flange Type				Reference* by Mating Flange	Weight (kg / lbs)
Metric	inch	L	D	D1	D2	PN16	
DN50	2"	54	107	64	46	DDW-0200PN	1.46
DN65	2 1/2"	54	127	78	60	DDW-0250PN	2.17
DN80	3"	57	142	94	70	DDW-0300PN	2.79
DN100	4"	64	162	117	84	DDW-0400PN	4.11
DN125	5"	70	192	145	115	DDW-0500PN	6.26
DN150	6"	76	218	170	134	DDW-0600	6.24
DN200	8"	95	273	224	184	DDW-0800PN16	14.92
DN250	10"	108	328	265	220	DDW-1000PN16	25.35
DN300	12"	143	378	310	260	DDW-1200PN16	38.09

The Double Door Check Valve referenced fits between the mating flanges as follows:

PN16 = DIN 2501, BS 4504, EN 1092 - PN10/16



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This chapter contains all Information related
to Fire cabinet of all types.

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Chapter10

FIRE CABINET



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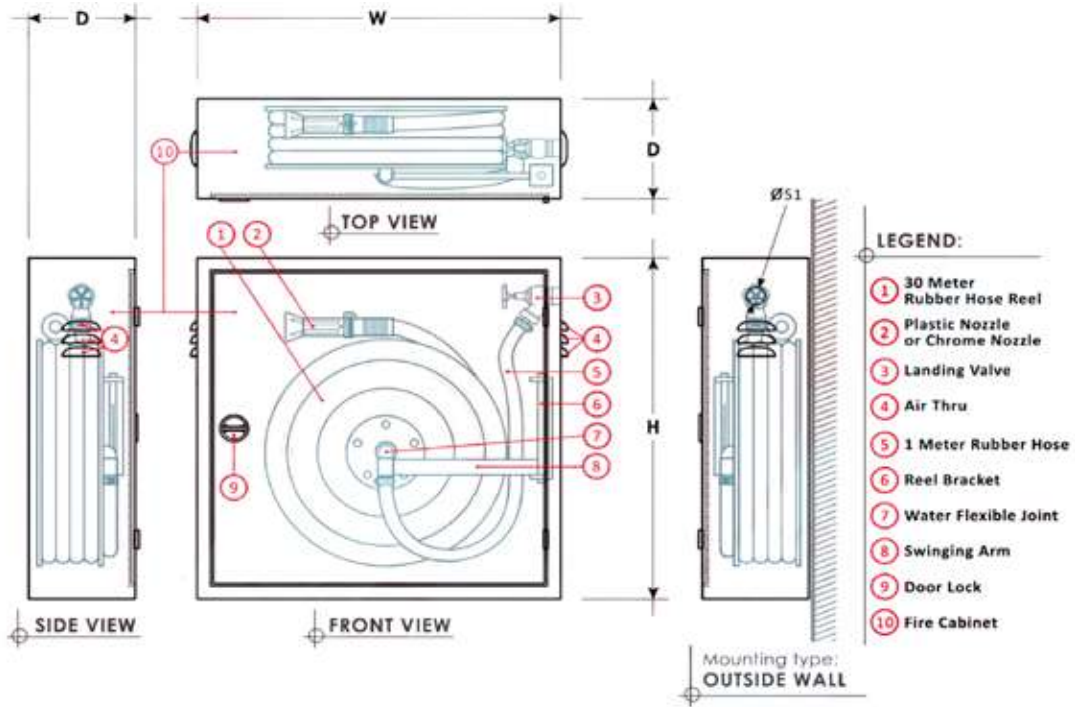


Fire Hose Reel Cabinet Outside Wall

DESCRIPTION

A fire hose reel cabinet made from steel or stainless-steel mirror or hairline finishing with different thickness 1-2 mm, the steal box is powder painted electrostatically and heated in 200 degree to guarantee rustproof, the cabinet is fixed on the wall and can be fitted with glass on the door. The cabinet contains a 30-meter rubber hose with 1-inch diameter and 1.5-inch valve to connect it with main source of water and a 1-inch nozzle plastic or chrome.

Materials and Dimensions

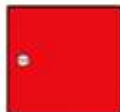


النموذج Model	مقاسات الصندوق (بالملمتر) Cabinet Dimensions (mm)		
	Width العرض	Height الارتفاع	Depth العمق
KF-CRO-80	800	800	230

Door and Glass Type



Standard (S)



Standard (S)



Full (G)



Vertical (V)



Horizontal (H)



Circle (C)

Accessories الملحقات



محبس مع نقاص
LANDING VALVE (1.5")



قاذف بلاستيكي
PLASTIC NOZZLE (1")



قاذف معدني
CHROME NOZZLE (1")



بكرة مع لي 30 متر
30 MTR HOSE REEL (1")

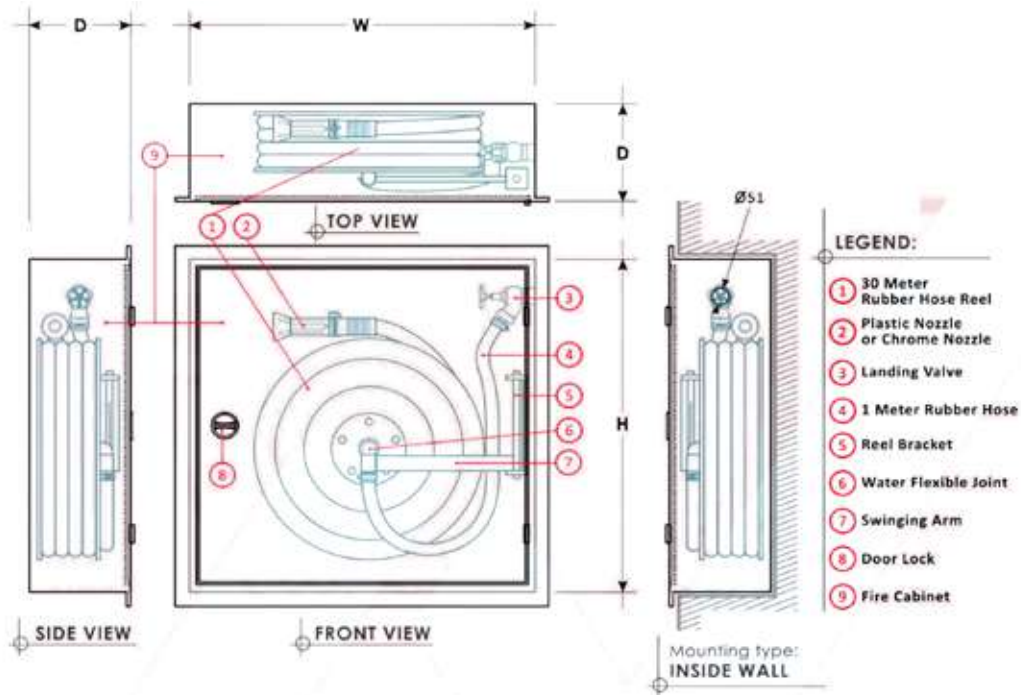


Fire Hose Reel Cabinet Inside Wall

DESCRIPTION

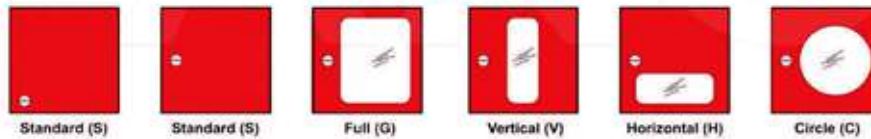
A fire hose reel cabinet made from steel or stainless-steel mirror or hairline finishing with different thickness 1-2 mm, the steal box is powder painted electrostatically and heated in 200 degree to guarantee rustproof, the cabinet is fixed inside the wall and can be fitted with glass on the door. The cabinet contains a 30-meter rubber hose with 1-inch diameter and 1.5-inch valve to connect it with main source of water and a 1-inch nozzle plastic or chrome.

Materials and Dimensions



النموذج Model	مقاسات الصندوق (بالملمتر) Cabinet Dimensions (mm)		
	Width العرض	Height الارتفاع	Depth العمق
KF-CRI - 80	800	800	230

Door and Glass Type



Accessories الملحقات



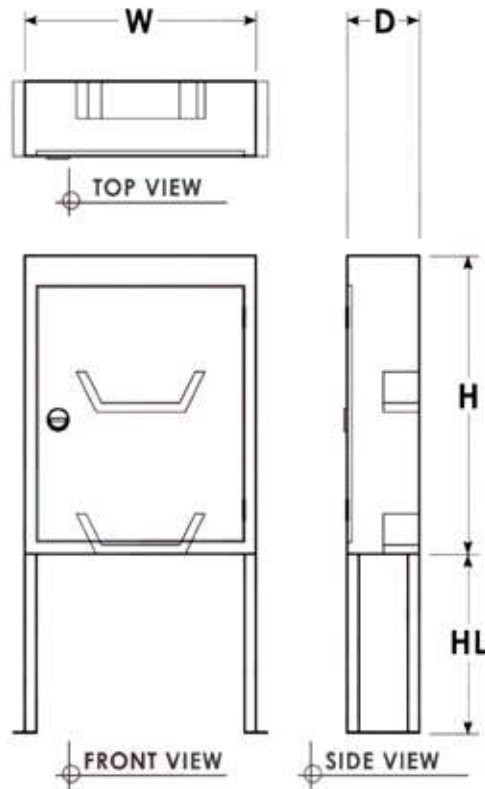


Fire Hydrant Cabinet

DESCRIPTION

A fire Hydrant Cabinet made from steel or stainless-steel mirror or hairline finishing with different thickness 1-2 mm, the steal box is powder painted electrostatically and heated in 200 degree to guarantee rustproof, the cabinet is fixed on ground. The cabinet contains a 30-meter synthetic hose with 1. or 2.5-inch diameter and 1.5 or 2.5-inch valve to connect it with main source of water and a 1.5 or 2.5-inch with different copper nozzles.

Materials and Dimensions



النموذج Model	مقاسات الصندوق (بالملمتر) Cabinet Dimensions (mm)			
	Width العرض	Height الارتفاع	Depth العمق	Height of Legs ارتفاع الارجل
KF-CRO-100	800	1000	250	600
KF-SHO-100	800	1000	250	600
KF-SMO-100	800	1000	250	600

الملحقات Accessories



محبس ماء
LANDING VALVE
(1.5" OR 2.5")



قاذف نحاس صغير
BRASS WATER NOZZLE
(1.5" or 2.5")



قاذف نحاس طويل
COPPER NOZZLE
(1.5" or 2.5")



خرطوم كتان 30 متر
30 MTR SYNTHETIC
HOSE (1.5" or 2.5")

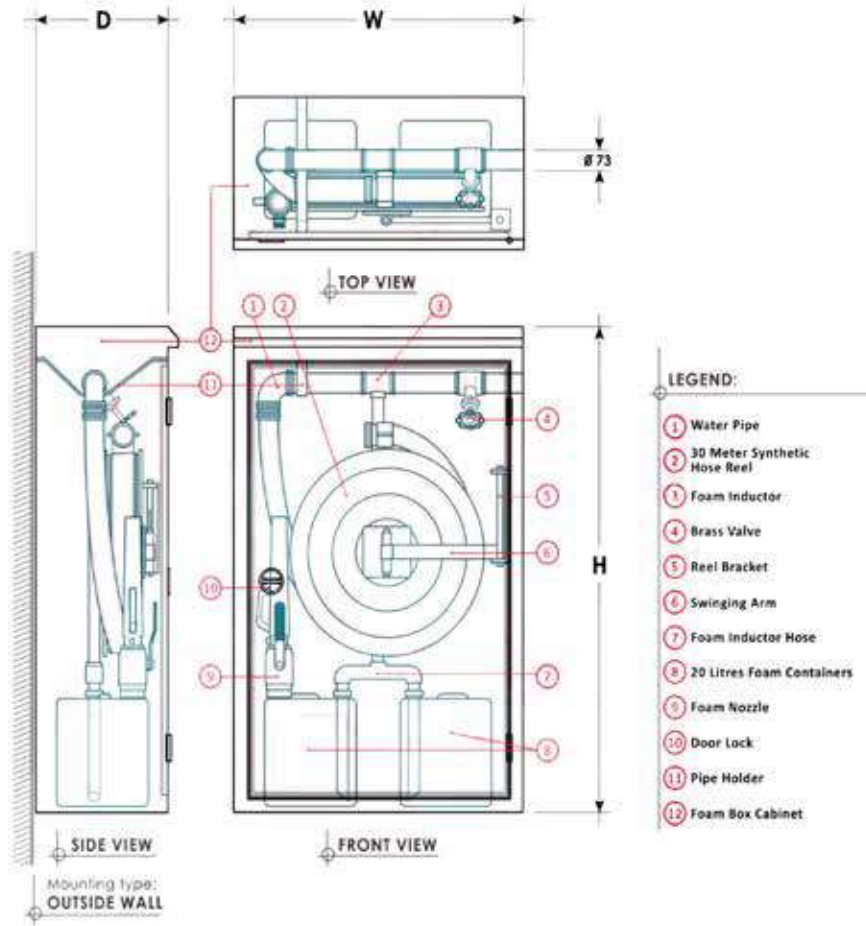


Foam Cabinet

DESCRIPTION

Foam Box is made from steel or stainless-steel hairline or mirror with various thickness ranging 1-2 mm. the steel box is powder painted electrostatically and heated in 200 degree to guarantee rustproof, the box is mounted on the wall. It contain hose reel with a diameter of 1.5-inch synthetic hose and 2-inch brass valve, also it contain a foam inductor to mix the water with the foam in fix ratio that can extinguish the fire , and a special nozzle with 20-metter range and 20-letter contain of 3% or 6% foam concentration.

Materials and Dimensions



النموذج Model	مقاسات الصندوق (بالملمتر) Cabinet Dimensions (mm)			
	Width العرض	Height الارتفاع	Depth العمق	
KF-CRO-700	700	1120	300	
KF-SMO-700	700	1120	300	
KF-SHO-700	700	1120	300	

Accessories الملحقات



قاذف رغوي
Foam Nozzle (1.5")



بكرة كتان مع لي 30 متر
30 MTR SYNTHETIC HOSE REEL (1.5")



ARIF
AL-NAHDI
CO.LTD.



STD-020



STD-045



STD-111



STD-047

This chapter contains all Information related
to Fire Doors of all types.

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Chapter11

FIRE DOORS



info@anc.sa



www.anc.sa



STD-020



STD-045



STD-111



STD-047

Fire Proof Doors

Steel Fire-proof & Frame is cold-rolled steel.

The door is insulated with fire-proof material with its hardware meeting fire-proof integrity and insulation requirements.

Specifications

- ◆ Fire proof material filed.
- ◆ Normally used with door closer.
- ◆ Hardware fire-rating temp ≥ 950 .
- ◆ Only available in outswing opening.
- ◆ Frame should be installed with fire-proof rubber seal.
- ◆ Door steel skin: 0.8-1.0mm.frame steel:1.2-1.5mm.

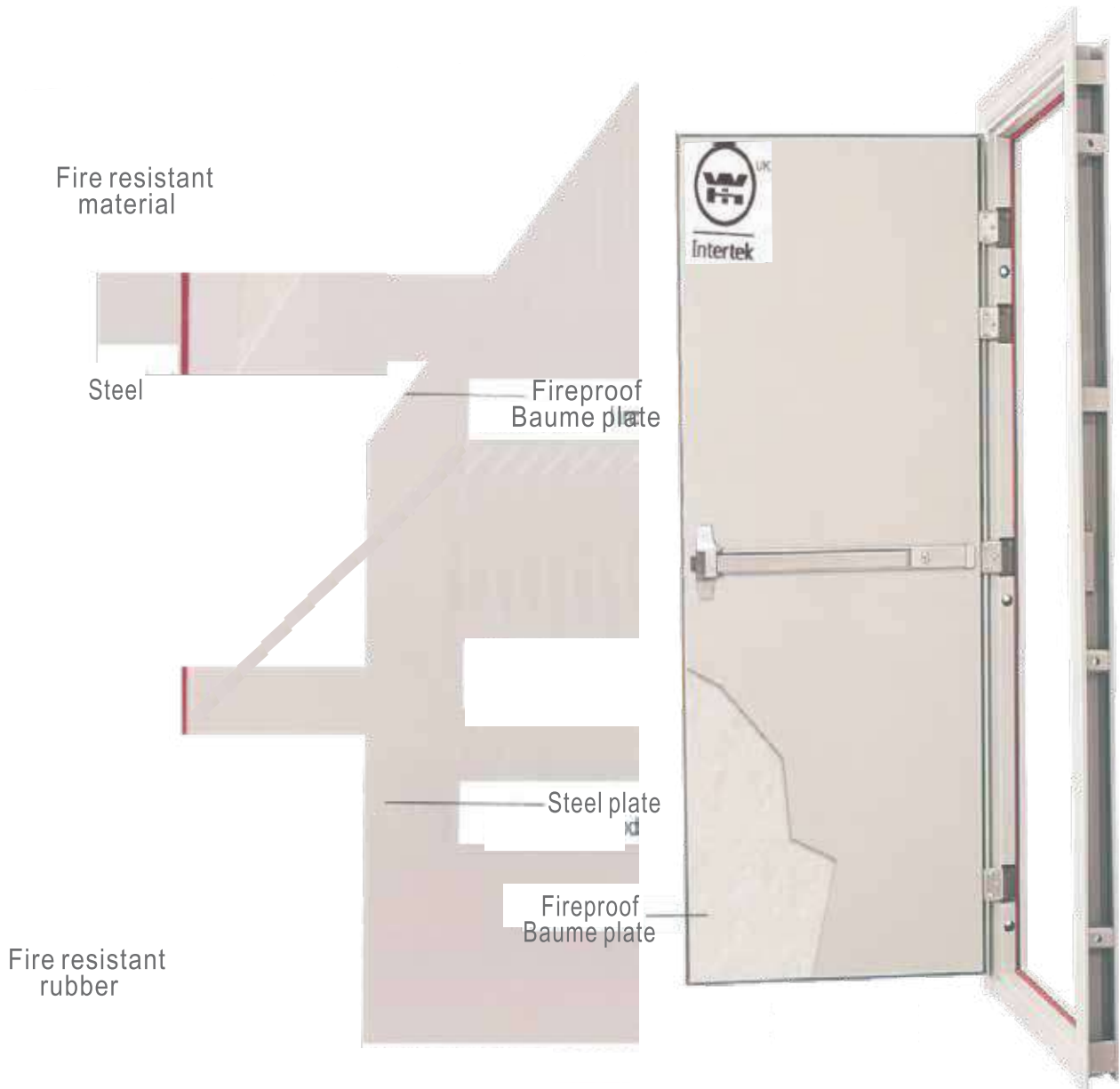


Fire proof rubber



lock

Components and materials



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