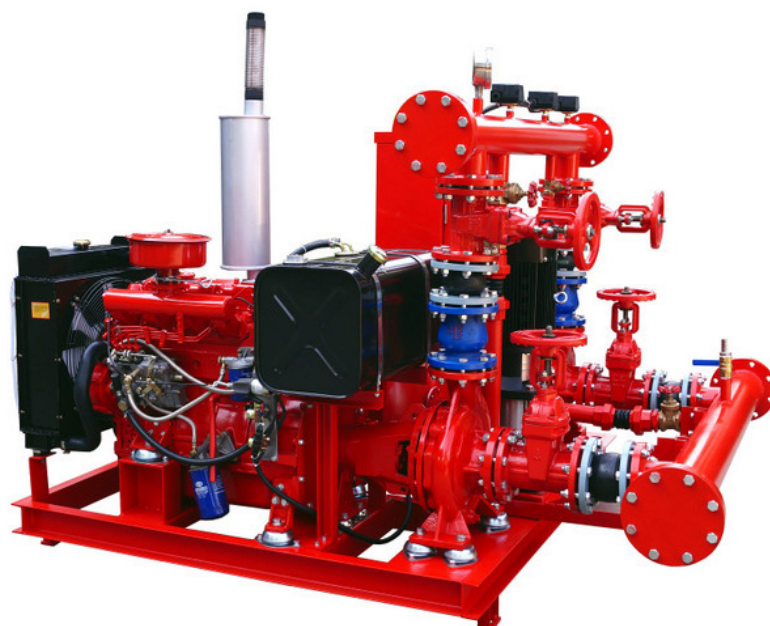
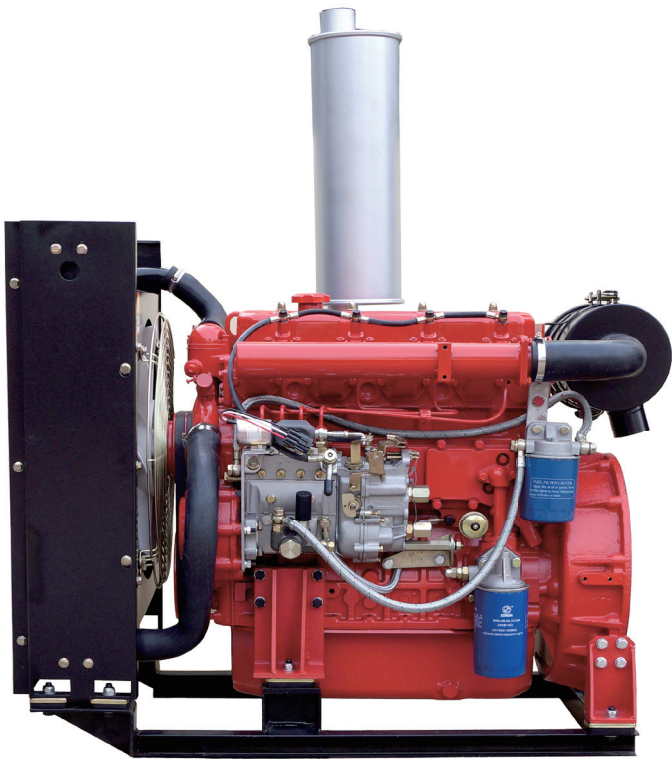


FIRE PUMP SET EDJ 50HZ/400V



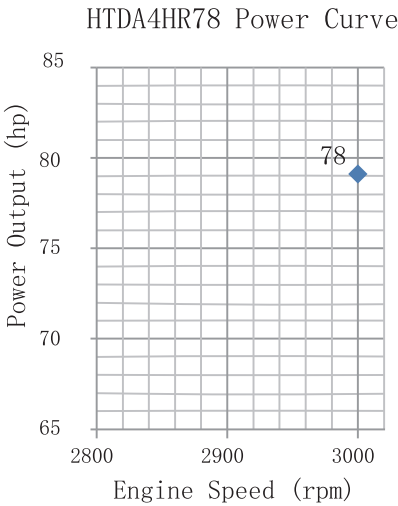
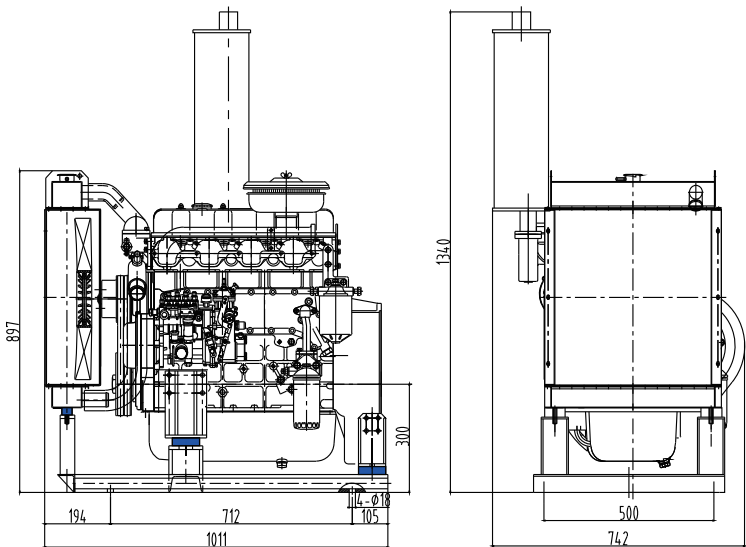
500GPM(113.5 m³/h)@9BAR

Engine Pump	Engine Model	Output(Kw)	Speed(rpm)	Pump Model
	HTDA4HR78	63KW	3000RPM	EA65-32GC
Electric Pump	Motor Model	Output(Kw)	Speed(rpm)	Pump Model
	Y250M-2	55KW	3000RPM	EA65-32GC
Jockey	DBL8-14		5.5KW	
Valves	AMICO			
Pressure Switchs	Danfoss			
Inlet(mm)	5"			
Outlet(mm)	4"			
Control Panel	Three in One			



Specification

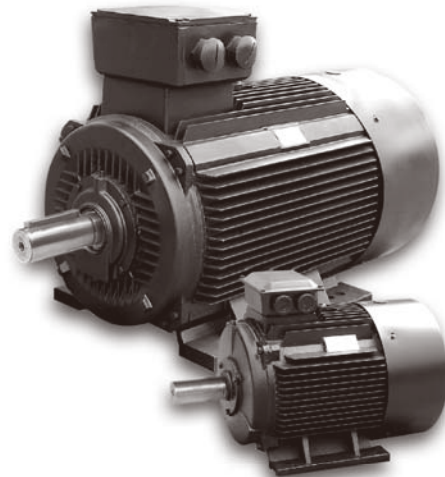
Engine Model		HTDA4HR78
Type		Vertical, Water-cooling 4-stroke, direct-injection
Aspiration		Nature
Number of Cylinders		4
Bore x Stroke (mm)		102*118
Compression Ratio		17.5:1
Total Displacement(L)		3.855
Net Power	KW/HP	57/78
Rated Speed	r/min	3000
Fuel Consumption	g/kW.h	<215
Radiator		HR78
Rotating Direction at Output End		Counter-clockwise
Lubrication Oil Standard		CD15W/40
Lubrication Oil Content	L	9.5
Lubrication Method		Pressure and Splash
Starting Method		Electric
Net Weight	kgs	400



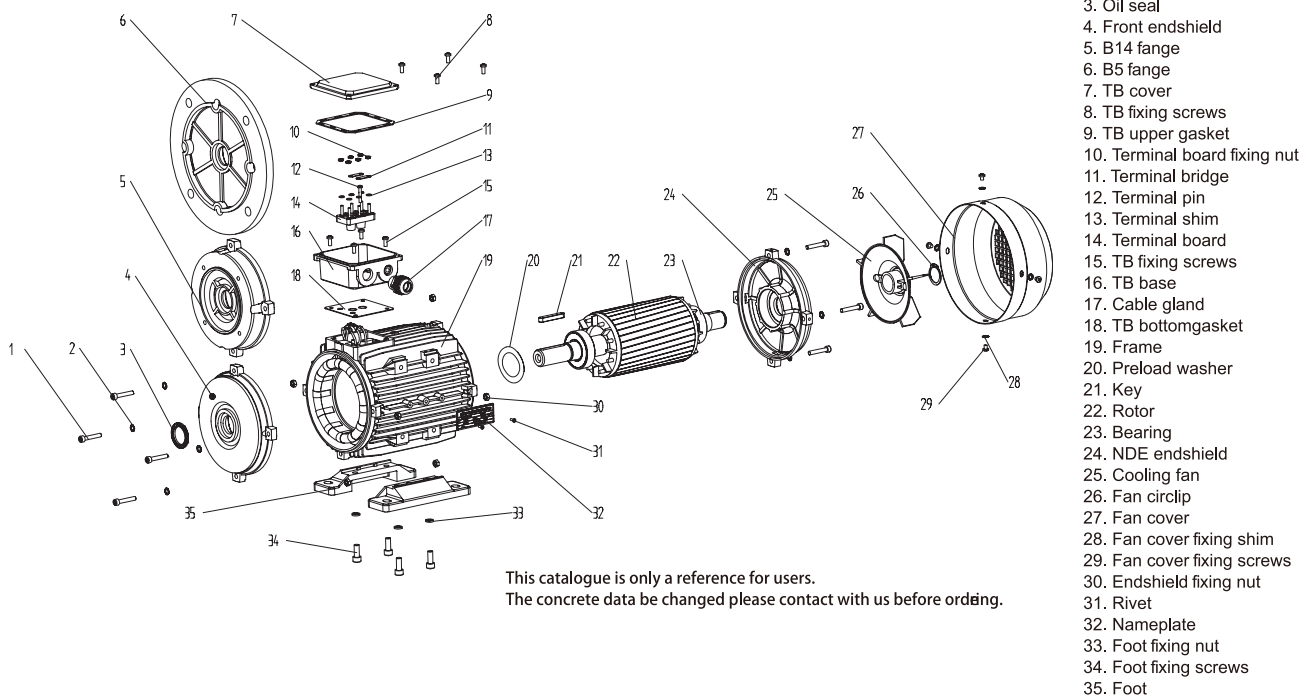
Y2 Series

Three-Phase Induction Motors

- Frame size H80~355
- Power 0.18~315KW
- Synchronous speed 3000; 1500; 1000; 750; 600RPM
- Voltage 230/400V; 400/690V
- Frequency 50Hz、60Hz
- Protection class IP54; IP55
- Insulation class F
- Ambi.temperature -15~+40℃
- Altitude above sea level ≤1000m



Motor Spare Part List "Exploded Drawing"



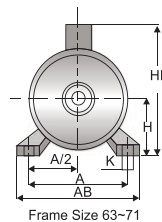
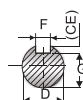
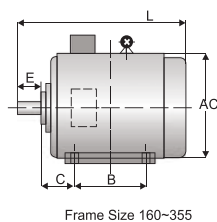
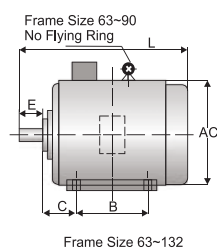
Y₂ Series Technical Data (at 400V)

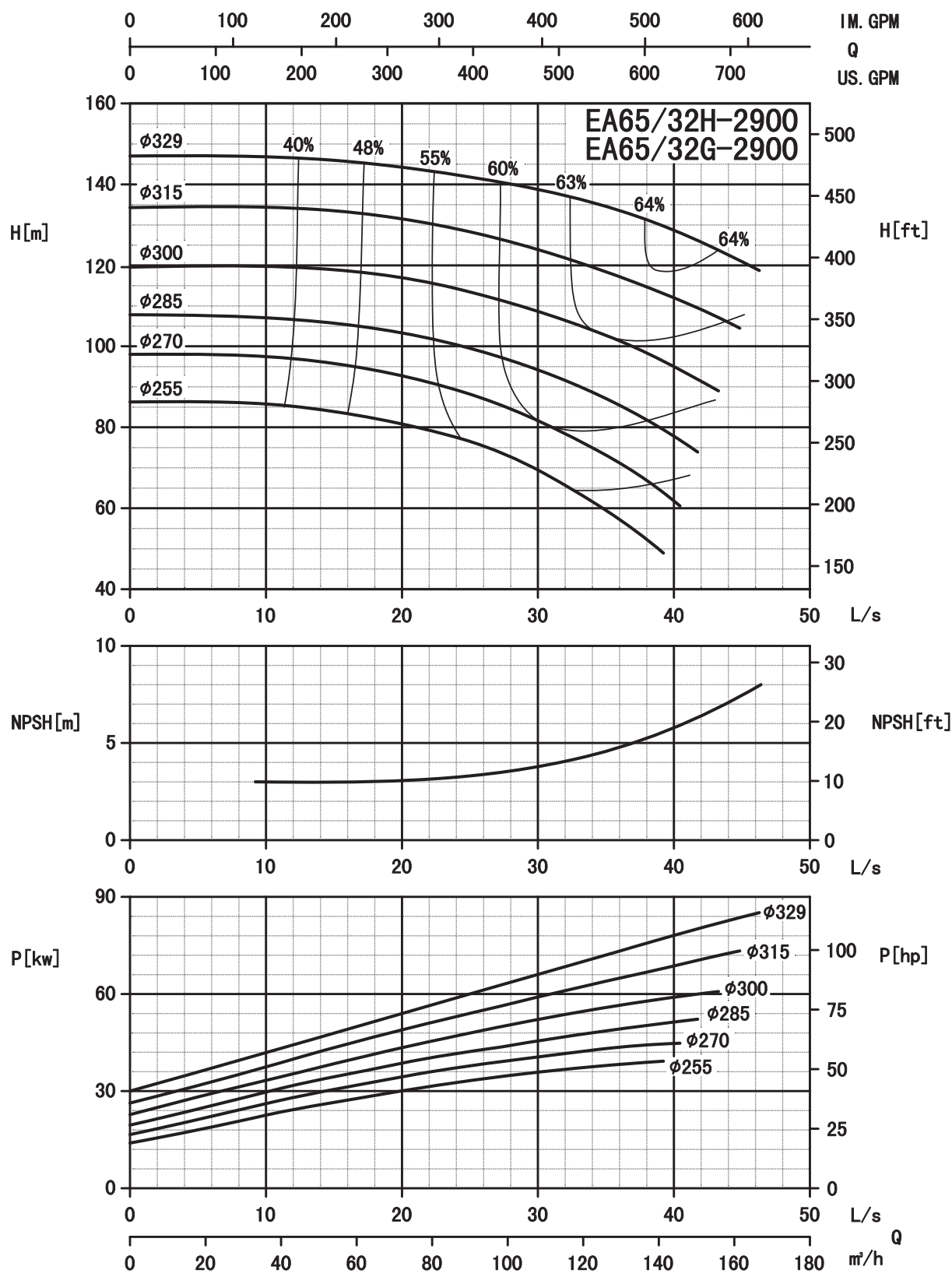
Model	Rated Output (KW)	At Full Load				Locked Current	Locked Torque	Max Torque	Net Weight (Kg)	Noise Level dB(A)	
		Speed (r/min)	Current (A)	Eff. (%)	Power Factor (CosΦ)					I	II

Synchronous Speed 3000r/min 50Hz

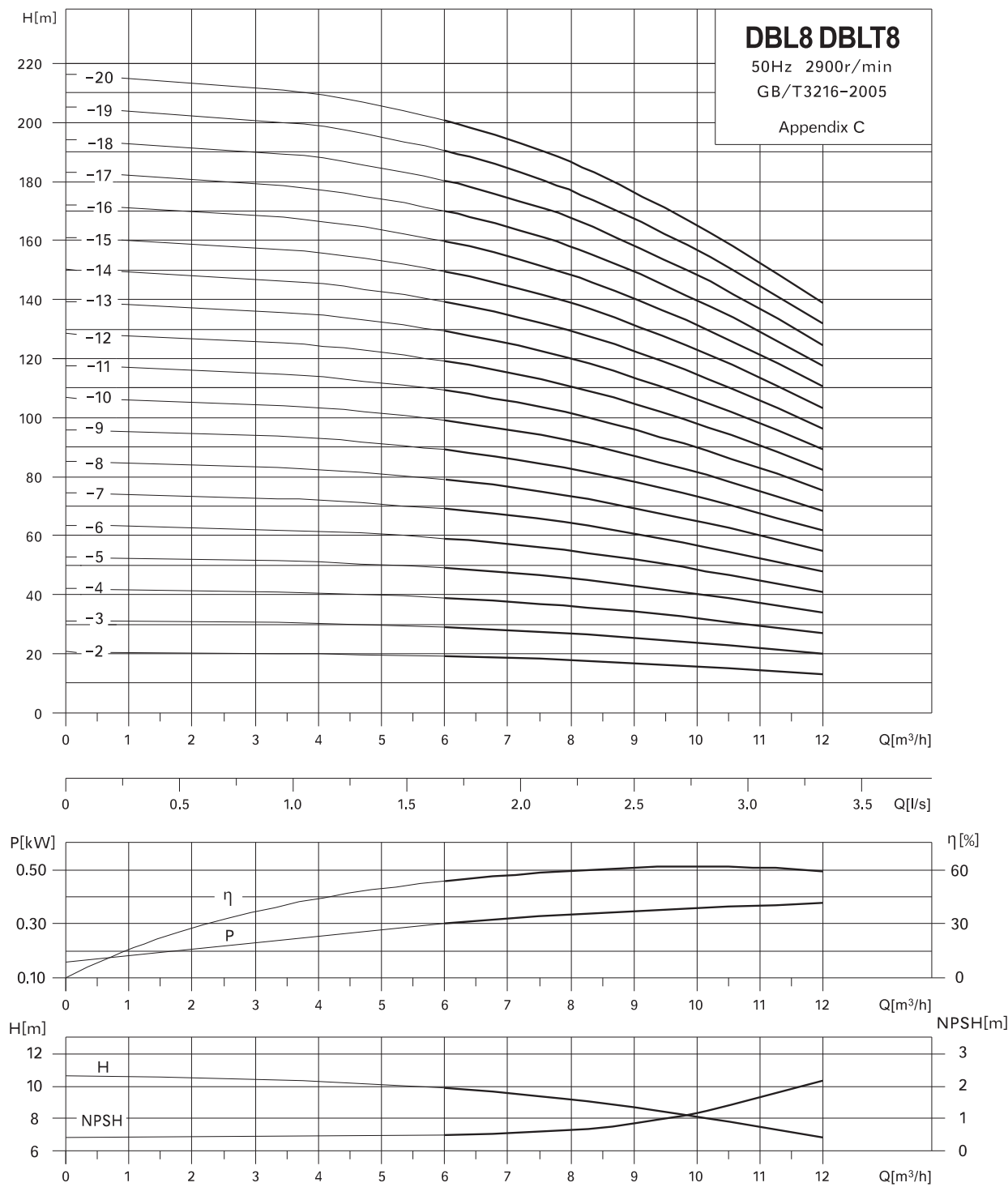
80 1	0.75	2830	1.8	75	0.83	6.1	2.2	2.3	16	67	69			
80 2	1.1		2.5	77	0.84	7			17					
90S	1.5	2840	3.3	79					22	72	74			
90L	2.2		4.6	81	0.85				25					
100L	3	2860	6.0	83	0.87	7.5			33	76	78			
112M	4	2880	7.7	85	0.88				45	77	79			
132S1	5.5	2900	10.5	86					64	80	82			
132S2	7.5		14.1	87								70		
160M1	11	2930	20.3	88	0.89				117	86	88			
160M2	15		27.3	89					125					
160L	18.5		33	90	0.90				147					
180M	22	2940	39.2	90		2	180		89	91				
200L1	30	2950	52.8	91.2			240		92	94				
200L2	37		64.5	92			255							
225M	45	2970	78.2	92.3	309		93		95					
250M	55		95.4	92.5	403									
280S	75		129.3	93	544		94		96					
280M	90		152.2	93.8	0.91					620				
315S	110	2980	185.6	94	0.91	7.1	1.8	2.2	980	96	98			
315M	132		221.6	94.5					0.92				1080	
315L1	160		265.4	94.6									1160	99
315L2	200		331.0	94.8	1190									
355M	250		411.6	95.3	1.6		1760		103	105				
355L	315		517.0	95.6			1850							

Y₂ Series Mounting Dimensions





■ Performance curve





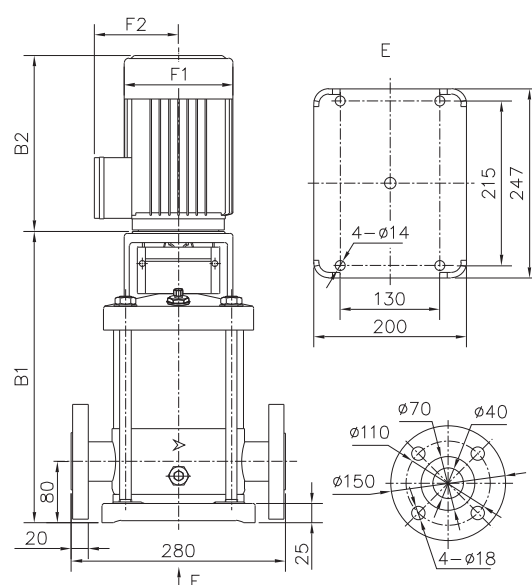
■ Performance data

Pump model		motor kW	flow m³/h	6	7	8	9	10	11	12
DBL8 DBLT8	-2	0.75	head m	19	18.5	17.5	16.5	15.5	14.5	13
	-3	1.1		29	28	27	25.5	24	22	20
	-4	1.5		39	37.5	36	34	32	29.5	27
	-5	2.2		49	47.5	45.5	43	40	37	34
	-6	2.2		59	57	55	52	48.5	44.5	41
	-7	3		69	67	64	61	57	52	47.5
	-8	3		79	77	74	70	65	60	55
	-9	4		89	86	83	78	73	68	62
	-10	4		99	96	92	87	82	75	69
	-11	4		109	106	102	96	90	83	76
	-12	4		119	116	111	105	98	91	83
	-13	5.5		129	125	120	114	106	98	89
	-14	5.5		140	135	130	123	115	106	96
	-15	5.5		150	145	139	131	123	114	104
	-16	5.5		160	155	149	140	132	121	111
	-17	7.5		170	165	158	149	140	129	118
	-18	7.5		181	175	168	159	148	137	125
	-19	7.5		191	185	177	168	157	145	132
	-20	7.5		201	195	187	177	165	152	139

■ Dimension and weight

Pump model		Dimension mm					weight kg	
		B1	B2	B1+B2	F1	F2	DBL	DBLT
DBL8 DBLT8	-2	309	244	553	148	125	29	32
	-3	339	244	583	148	125	31	34
	-4	384	287	671	169	138	37	41
	-5	414	287	701	169	138	41	44
	-6	444	287	731	169	138	42	45
	-7	479	337	816	194	150	50	53
	-8	509	337	846	194	150	51	55
	-9	539	350	889	215	169	58	61
	-10	569	350	919	215	169	59	62
	-11	599	350	949	215	169	60	63
	-12	629	350	979	215	169	61	64
	-13	680	383	1063	257	190	79	82
	-14	710	383	1093	257	190	80	83
	-15	740	383	1123	257	190	81	84
	-16	770	383	1153	257	190	82	85
	-17	800	383	1183	257	190	87	90
	-18	830	383	1213	257	190	88	91
	-19	860	383	1243	257	190	89	92
	-20	890	383	1273	257	190	90	93

■ Installation sketch



Silence check valve

Overview

Silence check valve consists of valve body, seat, diversion shuttle, disc, and spring etc. The inside is streamline designed so water head loss is very little. Meanwhile the disc's shutoff stroke is very short and when the pump is closed, the valve can close quickly, prevent the big noise and water-hammering so the valve can close quietly without any noise. It is widely used in water supply and drainage system, fire protection and heat supply system, and it is installed at the outlet of the pump to prevent damages of backward fluid and water-hammering to the pump.

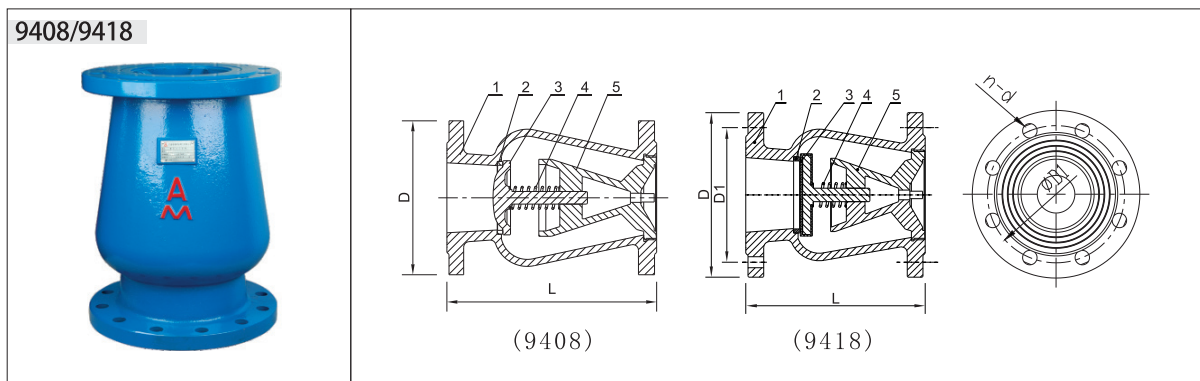
Performance parameter

Nominal pressure: 1.0M Pa, 1.6M Pa

Working medium: water,

Working temperature: 0~80/120°C

Flanged end: GB/T17241.6 standard



Material

Number	1	2	3	4	5
Part name	Body	Seat	Disc	Spring	Diversion shuttle
Material	Cast iron/Cast steel	Brass	Brass/Chemigum	Stainless steel	Cast iron/Cast steel

Outline dimension

Model: H41T (X) -10/16

Unit:mm

DN	No.	L		D		D1		d		n	
		9408	9418	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
40	DRVZ-0040	110		150	150	125	125	19	19	4	4
50	DRVZ-0050	120		165	165	125	125	19	19	4	4
65	DRVZ-0065	150		185	185	145	145	19	19	4	4
80	DRVZ-0080	180		200	200	160	160	19	19	8	8
100	DRVZ-0100	240		220	220	180	180	19	19	8	8
125	DRVZ-0125	300		250	250	210	210	19	19	8	8
150	DRVZ-0150	350		285	285	240	240	23	23	8	8
200	DRVZ-0200	450		340	340	295	295	23	23	8	12
250	DRVZ-0250	500	370	395	405	350	355	23	25	12	12
300	DRVZ-0300	450	445	445	460	400	410	23	25	12	12

The resilient seated gate valve

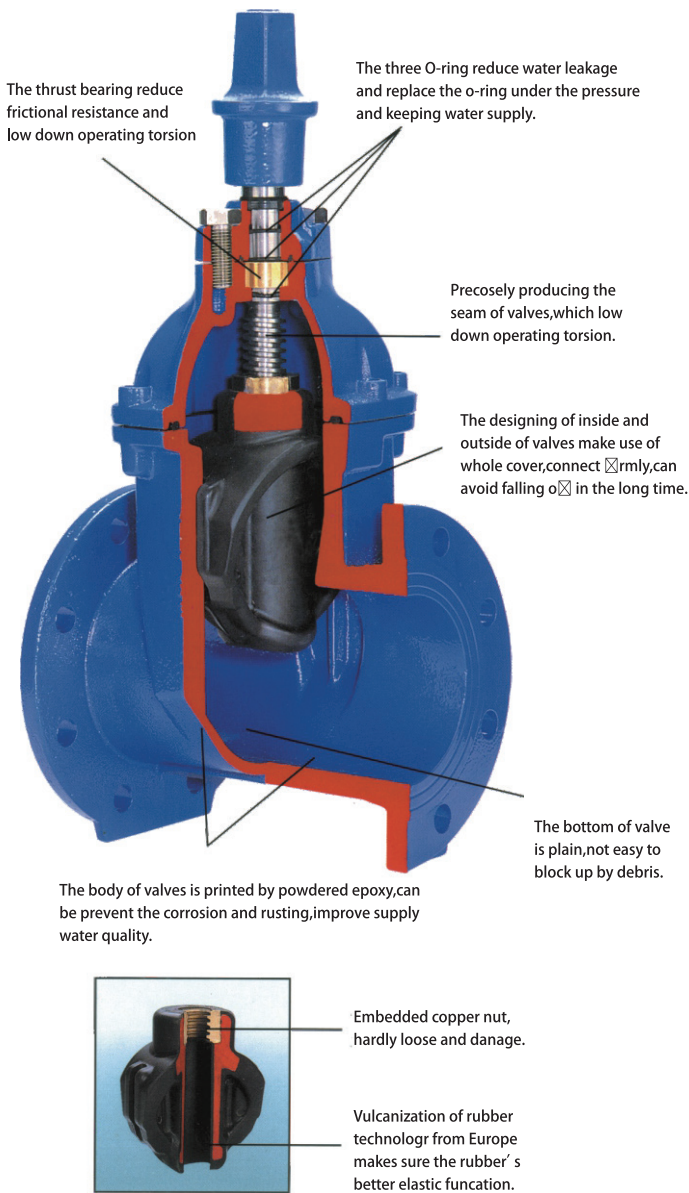
Overview

The traditional gate valves have the problem on leakage and rusting in the market for a long time,our company introduce the high t echnology of rubber-packed and valves production feom Europe to manufacture valves.which overcome the poor sealing,lacking of flexibility,rubber aging and rusting etc. The resilient seated gate valve makes use of elastic calces,which produce flexible micro-valves of compensation to achieve good sealing, calves can be open and dose deftly,reliable sealing, excellent elasticity and long life, It is widely used in tap water industry, sewage treatment, shipping, construction,petroleum,chemicals,food,pharmacy,textile,electric power,metallurgy and energy systems pipeline to adjust and shut of fluid.

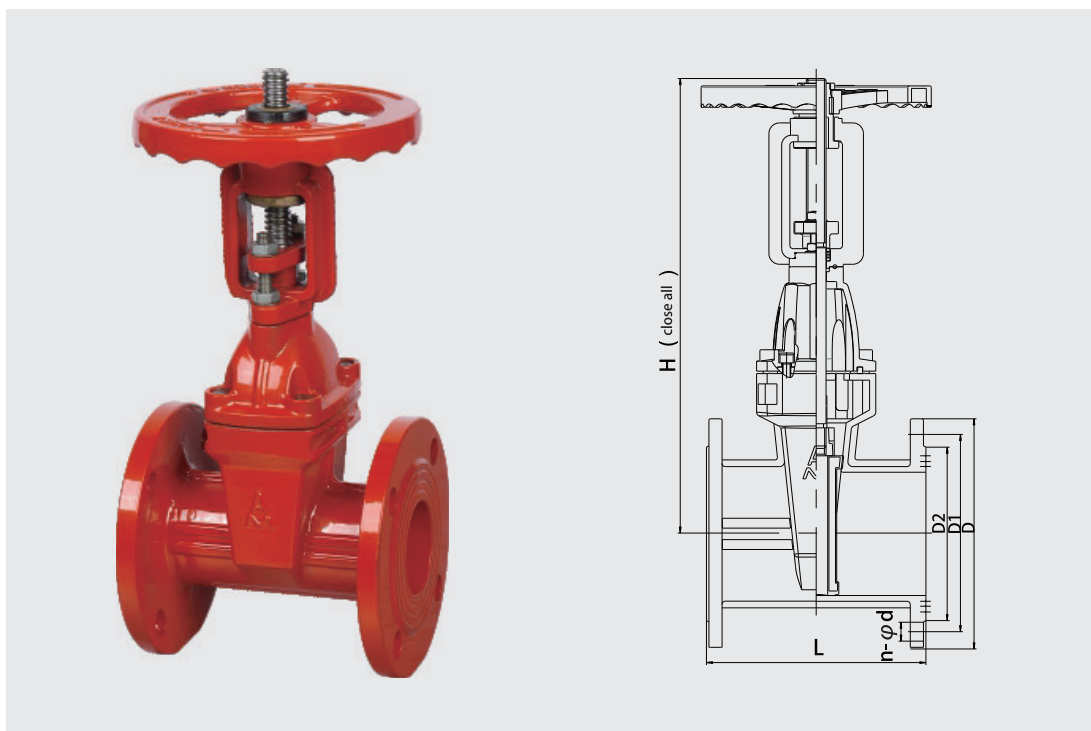
Featutes

Light weight	The body of valves is made by advanced ductile castiron,which is lighter than normal gate valves about 20% to 30%,and easy to install and maintain.
Plain base on valve seat	The traditional valve is often blocked up by outside objects such as stones, wood,cement,iron filings,debris etc,so it is can not be close well leading to water leakage.The seat of resilient seated gate valve make use of plain base fesign which the same as the pipe,not easy to block up by debris, keeping fluid smoothly.
Encapsulating in whole	Valves are using high-quality rubber to encapsulate on the whole body, sulfur rubber technology of the first dass form Europe keeps the vulcannization maintaining precise geometry dimension,meanwhile, rubberand ductile iron valves connect firmly,not easily detached and good elastic.
The casting body of valve	The body of valve is made by precision forging,accurate geometry dimension of inside of valves no need any other process,can make sure the seal ability of valves.
Embedded copper nut	The copper nut and resilient are connected by embedded way,two parts closelu integrated into one body, hardly loose and damage by shock from water flowing.
Corrosion-resisting performance	The body of valves is printed by powdered epoxy,can be prevent the corrosion and rusting,can be used to sewage system
Firmness	The traditional valve easy to fracture by objects hit,collides and stress, which will be improved by making use of ductile cast iron on body.
Thtee "O" seal ring	The designing of three O seal ting on stem,which reduce friction when the valves opening and closing,as well as water leakage and replacing the seal ting under keeping supply water.
Helpful for health drink	The inside of valve is printed by Non-toxic epoxy resin,the inside and outside of valves surface is covered by rubber,so can not be rusting and coeeosion,so it is better for health drink.

Cutaway view of body/valve



The rising stem resilient seated gate valve



Performance parameter

Nominal pressure:1.6M Pa,

Working medium:water,

Working temperature:0~80℃

Material

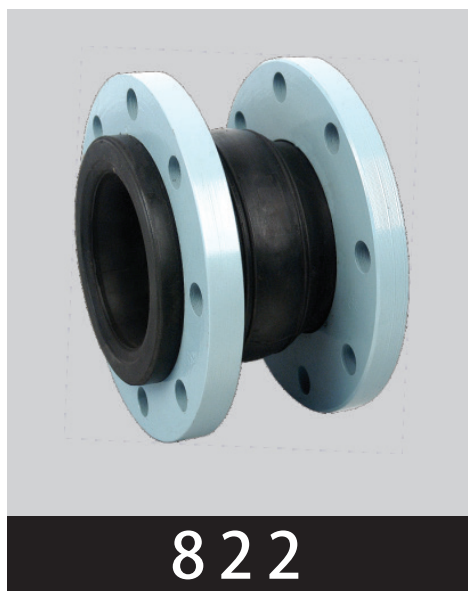
Number	Body	Cover	Cover	Disc	Rod	Gasketring	Hanfwheel
Material	Ductile castiron	Ductile castiron	Ductile castiron	Ductile castiron+N B R	Stainless steel	N B R	Ductile castiron

Outline dimension

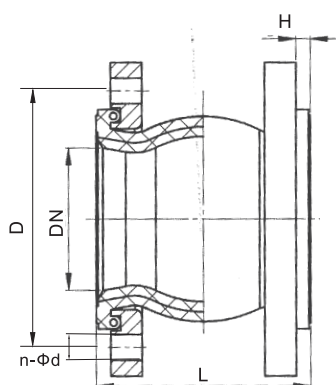
Model:Z45X-16Q Z41X-16Q

Unit:mm

DN	L	D	D1	D2	H			n-φd
					9151	9152	9153	
50	178	160	125	99	230	278	313	4-φ19
65	190	180	145	118	250	300	348	4-φ19
80	203	195	160	132	300	355	403	8-φ19
100	229	215	180	156	322	388	438	8-φ19
125	254	245	210	184	377	495	528	8-φ19
150	267	280	240	211	422	535	558	8-φ23
200	292	335	295	266	564	710	733	12-φ23
250	330	405	335	320	635	825	850	12-φ28
300	356	460	410	375	700	960	960	12-φ28
350	381	520	470	429	810	1480	1090	16-φ28
400	406	580	525	480	890	1590	1200	16-φ31

RUBBER FLEXIBLE ADAPTER

KDTF 1.6x25~500



Project	Model
Working pressure	1.6 MPa
Bursting pressure	4.8 MPa
Flange	1.6 MPa
Over material	NR+SBR
Applicable temp	0℃~90℃
Applicable media	tap water

Note: when the NR+SBR rubber is taken over, the user needs special work pressure or the product suitable for the medium. It should be explained in the order contract

Performance characteristics:

1. small volume, light weight, good elasticity, convenient installation and maintenance.
2. the lateral, axial and angular displacement can be produced when the installation is installed, and it is not restricted by the unflow of the pipe and the non parallel flanges.
3. The noise of the structure can be reduced and the ability of absorbing and vibration absorption can be reduced.

Nominal diameter		Length	Flange thickness	number of screws	diameter of bolt hole	Bolt hole center Circle diameter	Axial displacement		Lateral drift	angle of deflection
mm	inch						Elongation	compress		
32	1.25	95	16	4	18	100	6	9	9	15
40	1.5	95	18	4	18	110	6	10	9	15
50	2	105	18	4	18	125	7	10	10	15
65	2.5	115	20	4	18	145	7	13	11	15
80	3	135	20	4	18	160	8	15	12	15
100	4	150	22	8	18	180	10	19	13	15
125	5	165	24	8	18	210	12	19	13	15
150	6	180	24	8	23	240	12	20	14	15
200	8	210	24	8	23	295	16	25	22	15
250	10	230	26	12	23	350	16	25	22	15
300	12	245	28	12	23	400	16	25	22	15
350	14	255	28	16	23	460	16	25	22	15
400	16	255	30	16	25	515	16	25	22	15
450	18	255	30	20	25	565	16	25	22	15
500	20	255	32	20	25	620	6	25	22	15

Data sheet



KP Pressure Switches

Danfoss KP switches are used for regulating, monitoring and alarm systems in the industry. They provide automatic limit protection or manual reset limit protection for pressure systems. Can be used with steam, air, gaseous and liquid media.

The pressure switches are fitted with single-pole changeover switch (SPDT). The position of the switch depends on the setting of the pressure switch and the pressure in the connector.

KP Thermostats

KP thermostats are temperature-operated electric circuit breakers. The thermostats are fitted with single-pole changeover switch (SPDT).

The position of the switch depends on the thermostat setting and sensor temperature. A KP thermostat can be connected and switch to single-phase alternating current motors of up to 2 kW.

Features

- Wide regulating range
- Small dimensions
Space-saving, easy to install in panels
- Shock and impact resistant
- Ultra-short bounce time.
Limits wear to an absolute minimum and increases reliability
- Snap action electrical contacts minimize chatter, bounce, and wear, and ensure long term electrical and mechanical reliability
- Electrical connection from front of the unit.
Makes rack mounting easier and also saves space
- Suitable for alternating current and direct current
- Screwed wiring, makes rewiring easy
- Manual trip allows electrical function test without tools
- Versions with automatic and manual reset available

Approvals

UL listed for USA and Canada according to UL 353 and UL 873

CE marked in accordance to EN 60947-4/05



Data sheet | Pressure switches and Thermostats, type KP

PRESSURE SWITCHES

Technical data

Ambient temperature		-40 – 150 °F (175 °F for short period of time)	
Media temperature		-40 – 212 °F	
Sensor material		Tinned copper Cu/Sn5	
Parts in contact with medium:	Bellows:	stainless steel	
	Pressure connection:	free-cutting steel, nickel plated	
Wire dimension		12 AWG max.	
Contact system		SPST (close on temp. rise), SPDT	
		Contact material AgCdO	
Contac load	Alternating current	FLA	0.5 ~ 16 A/120 V AC 0.5 ~ 8 A/240 V AC
		LRA	96 A/120 V AC 48 A/240 V AC
	Direct current		240 V DC: 12W pilot duty
Enclosure		NEMA ~1 (when mounted on a flat surface with all unused holes covered)	
Cable entry		Integral ½ in female NPSM swivel cable connector, allows direct attachments of ½ in. male pipe thread connector	

Ordering

Type	Range [psig]	Differential [psi]	Reset	Pressure connection	Max. operating pressure [psig]	Min. burst pressure [psig]	Code nos
KP 34	2 – 15	2 – 6	Automatic	¼" 18 NPT	58	435	060-214991
KP 34	2 – 15	3 fixed	Manual	¼" 18 NPT	58	435	060-214891
KP 35	6 – 50	6 – 32	Automatic	¼" 18 NPT	145	1015	060-215191
KP 35	6 – 50	7 fixed	Manual	¼" 18 NPT	145	900	060-215091
KP 36	15 – 150	10 – 58	Automatic	¼" 18 NPT	245	1015	060-214491
KP 36	15 – 150	10 fixed	Manual	¼" 18 NPT	245	1015	060-214591
KP 37	58 – 300	26 – 45	Automatic	¼" 18 NPT	405	1450	060-214691
KP 37	58 – 300	43 fixed	Manual	¼" 18 NPT	405	1450	060-214791

Contact system and application

Switch type - single pole double throw	Switch action	Application
	1. Terminals 1 – 4 close high and open low Terminals 1 – 2 can be used as low pressure alarm	1. Low pressure cut-out
	2. Terminals 1 – 2 open high and close low Terminals 1 – 4 can be used as high pressure alarm	2. High pressure cut-out