

WATERFLOW PUMP

SINGLE-STAGE DOUBLE SUCTION SPLIT CASE PUMP

Series MSE





Beijing ZhongDaHuaYuan Certification Center

(B22 Fuchengmenwai Street, Western District, Beijing 100833, China)

Environmental Management System Certification Certificate

No. 02020E0476R0M

Shanghai Shenbao Industrial Pump Co.,Ltd.

(Unified Code Of Social Credit:91310112630787354M)

System scope assessed

The environmental management activities of design,development and production of water pump,and its accessories and electrical control cabinet(involves the need for permission to handle according to permission) of Shanghai Shenbao Industrial Pump Co.,Ltd. . It is situated in No.518,Zixu Road, Minhang District,Shanghai,P.R.China

Registered address:No.518,Zixu Road,Minhang District,Shanghai,P.R.China

Environmental management system is in conformity with

GB/T 24001-2016/ISO 14001:2015 *Environmental management systems-Requirements with guidance for use*

Issuing date:2020.06.05; Expiration date:2023.06.04

Note: The certification registration scope doesn't include those product / service scopes which fail to be covered by the relevant effective administration permission and qualification permission regulated by the state;

The certified organization must accept the surveillance audit at intervals of no more than 12 months since the date of initial/recertification audit certification decision and certificate is regarded as effective only after the audit is qualified;

The certificate information can be obtained in the website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn) or by scanning the QR code below.

LIUJIANGYI, Director of ZDHY



中国认可
国际互认
管理体系

MANAGEMENT SYSTEM
CNAS C020-M





Beijing ZhongDaHuaYuan Certification Center

(B22 Fuchengmenwai Street, Western District, Beijing 100833, China)

Occupational Health and Safety Management System Certification Certificate

No. 02020S0466R0M

Shanghai Shenbao Industrial Pump Co.,Ltd.

(Unified Code Of Social Credit:91310112630787354M)

System scope assessed

The occupational health and safety management activities of design, development and production of water pump, and its accessories and electrical control cabinet (involves the need for permission to handle according to permission) of Shanghai Shenbao Industrial Pump Co., Ltd. It is situated in No.518, Zixu Road, Minhang District, Shanghai, P.R.China

Registered address: No.518, Zixu Road, Minhang District, Shanghai, P.R.China

Occupational health and safety management system is in conformity with

GB/T 45001-2020/ISO 45001:2018 *Occupational health and safety management systems-Requirements with guidance for use*

Issuing date: 2020.06.05; Expiration date: 2023.06.04

Note: The certification registration scope doesn't include those product / service scopes which fail to be covered by the relevant effective administration permission and qualification permission regulated by the state;

The certified organization must accept the surveillance audit at intervals of no more than 12 months since the date of initial/recertification audit certification decision and certificate is regarded as effective only after the audit is qualified;

The certificate information can be obtained in the website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn) or by scanning the QR code below.

LIUJIANGYI, Director of ZDHY



中国认可
管理体系
MANAGEMENT SYSTEM
CNAS C020-M





Beijing ZhongDaHuaYuan Certification Center
(B22 Fuchengmenwai Street, Western District, Beijing 100833, China)

Quality Management System Certification Certificate

No.02020Q1458R0M

Shanghai Shenbao Industrial Pump Co.,Ltd.

(Unified Code Of Social Credit:91310112630787354M)

System scope assessed

Audit address:No.518,Zixu Road,Minhang District,Shanghai,P.R.China

Registered address:No.518,Zixu Road,Minhang District,Shanghai,P.R.China

Product / service scope:design,development and production of water pump,and its accessories and electrical control cabinet(involves the need for permission to handle according to permission)

Quality management system is in conformity with

GB/T 19001-2016/ISO 9001:2015 *Quality management systems-Requirements*

Issuing date: 2020.07.28; Expiration date:2023.07.27

Note: The certification registration scope doesn't include those product / service scopes which fail to be covered by the relevant effective administration permission and qualification permission regulated by the state;

The certified organization must accept the surveillance audit at intervals of no more than 12 months since the date of initial/recertification audit certification decision and certificate is regarded as effective only after the audit is qualified;

The certificate information can be obtained in the website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn) or by scanning the QR code below.

LIUJIANGYI, Director of ZDHY



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C020-M



WATERFLOW

DIN 2501 STANDARD
ISO 9001 : 2000

SINGLE-STAGE DOUBLE SUCTION SPLIT CASE PUMPS

MSE series



DOUBLE SUCTION SPLIT CASE PUMPS DESIGNED FOR WIDE RANGE OF APPLICATIONS.

- Capacities: up to 7200 m³/h
- Heads: up to 170 m
- Temperatures: up to 105°C
- Pressures: 16 Bar standard (25 Bar on request)
- Efficiency: up to 92.5%
- Speed: up to 2970 rpm
- Suction: DIN 125-DIN 700
- Discharge: DIN 80-DIN 600

DESIGN FEATURE

PUMP CASING

Based on the load condition, the double-volute casing is applied to reduce the radial force, so the bearings have less load and longer service life.

Pump cover is assembled conveniently and adjusted automatically.

All smooth casting surface contribute the high efficiency performance.

There will be no vortex at the inlet and pump can run stably at low pressure loss. Suction and discharge flanges can be made conform to the standard of ISO, DIN, BS or ANSI upon request.

BASE-PLATE

The MSE series pumps have welding steel base-plate which can bear the attack force and has good tenacity and durability.

IMPELLER

Double suction impeller design provide practically zero axial force. The excellent hydraulic model designed with CAD can meet the requirement of high efficiency and excellent performance. Each impeller is statically and dynamically balanced according to standard ISO 1940.

The replaceable impeller wear rings provide the consistency of both efficiency and performance of the pump.

BEARING

Rolling bearings are grease lubricated bearing in the conveniently maintained bearing housing.

With large size heavy duty bearing, it will provide longer service life longer than 100,000 hours.

Bearings are installed with axis sleeve and key.

It is reliable to fix and convenient for disassembling or maintenance.

SHAFT

Large heavy duty shaft with minimum deflection is designed for high rigidity and reliable operation with vibration free.

The stainless steel is completely sealed away from the media under the replaceable shaft sleeve, consequently the shaft won't touch the liquid and free from corrosion.

The screw thread also does not touch the medium and will not be corroded.

All spare parts need no adjustment as they are in their dimension scope during pump assembling.

SEAL

High quality mechanical seal can secure the leakage. Shaft sleeve for mechanical seal made of stainless steel. Thus, the rust and corrosion can be avoided and maintenance is convenient. Closed circulate cooling system is applied to its inner seal housing which make the pump simple in structure and easy to maintain.

For gland packing system Non-asbestos soft packing is applied, which can meet the requirements of environmental protection.



Top Quality at Most Competitive Price Pumps.

WATERFLOW

DIN 2501 STANDARD
ISO 9001 : 2000

SINGLE-STAGE DOUBLE SUCTION SPLIT CASE PUMPS

MSE series

**DOUBLE SUCTION SPLIT CASE PUMPS
DESIGNED FOR WIDE RANGE OF
APPLICATIONS.**

- Capacities: up to 7200 m³/h
- Heads: up to 170 m
- Temperatures: up to 105°C
- Pressures: 16 Bar standard
(25 Bar on request)
- Efficiency: up to 92.5%
- Speed: up to 2970 rpm
- Suction: DIN 125-DIN 700
- Discharge: DIN 80-DIN 600



APPLICATIONS

- Water Supply Primary lift and secondary booster stations.
- Building Service, Water transfer, HVAC & Fire fighting
- Agricultural and Irrigation system.
- Flood control and Drainage system
- Marine Cooling system and fire fighting.
- Industry power plant, Water Treatment Plant,
- Filtration and cleaning in pulp and paper factory.



SPECIAL FEATURES

- Durable and Unique design
- High performance and Reliability
- Least and easy maintion
- High efficiency
- Low pulsation
- Wide variety of construction
- Gland packing or single/double mechanical seal arrangement
- Replaceable wear rings & shaft sleeve
- Energy saving high efficiency
- Low pulsation unique design
- High reliability
- Less maintenance
- Easy dismantling

**Top Quality at Most
Competitive Price Pumps.**

WATERFLOW

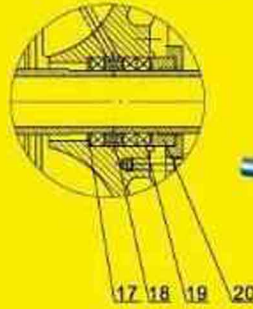
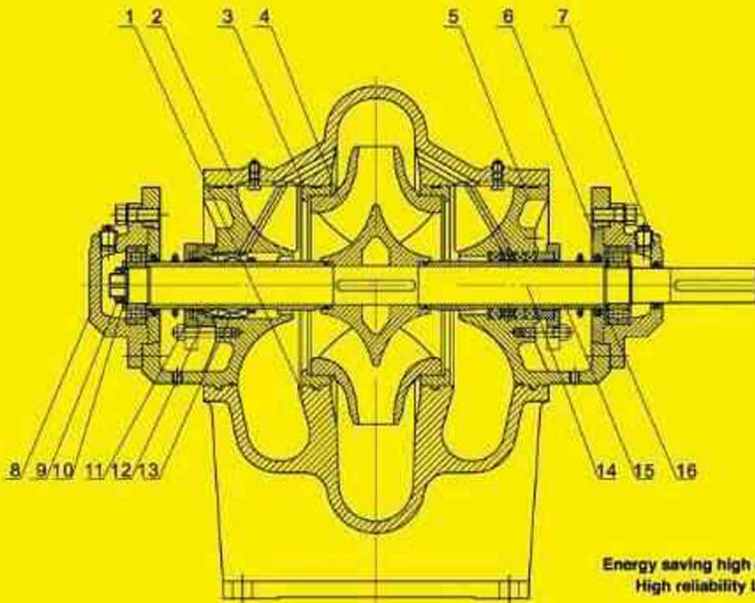
DIN 2501 STANDARD
ISO 9001 : 2000

SINGLE-STAGE DOUBLE SUCTION SPLIT CASE PUMPS

MSE Structure

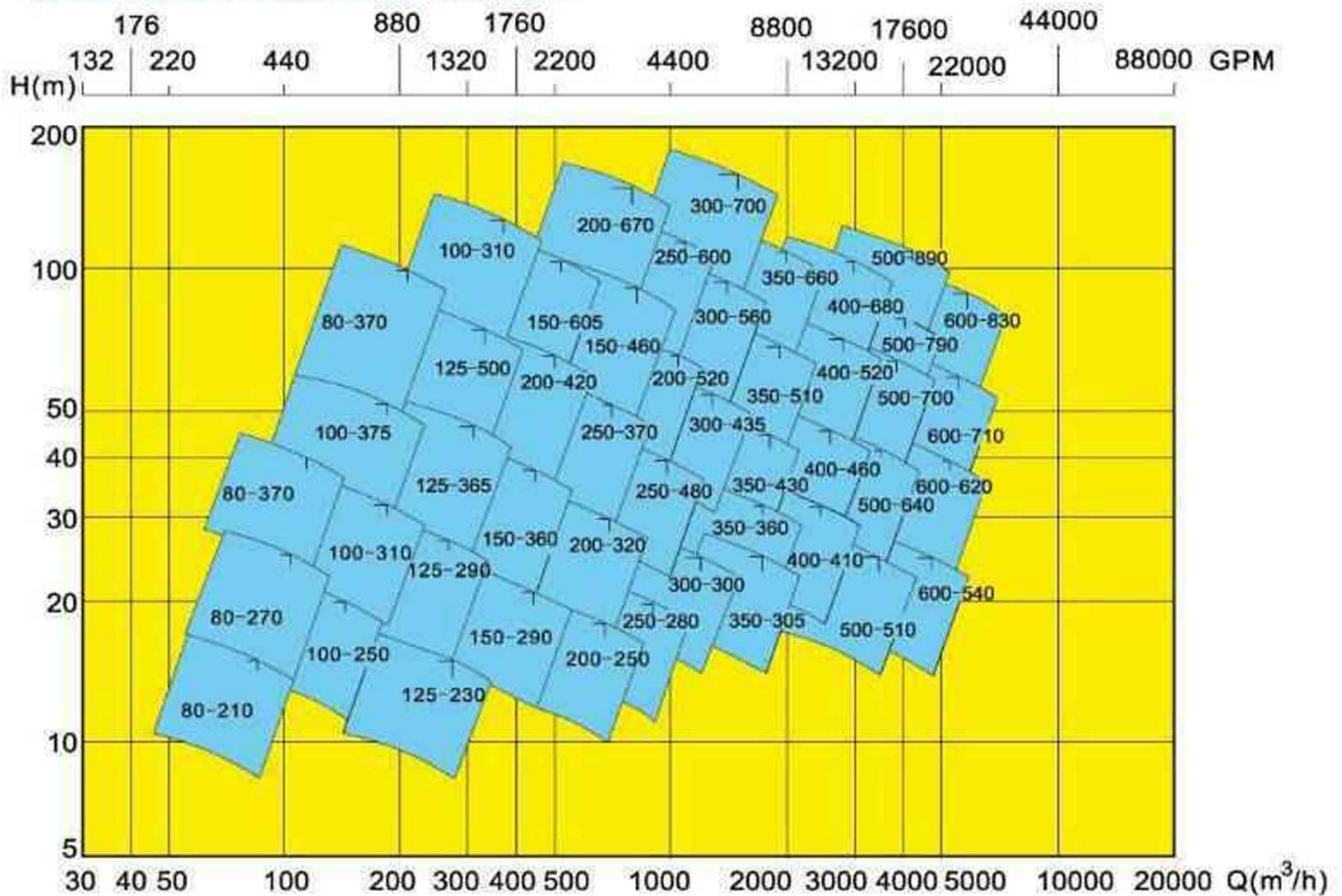
No. Part Description

- | | | | |
|---|-------------------------------|----|-----------------------|
| 1 | Casing | 9 | Lock Nut |
| 2 | Casing Cover | 10 | Bearing Baffle |
| 3 | Wear Ring | 11 | Seal Plate |
| 4 | Impeller | 12 | Seal Cover |
| 5 | Seal Housing | 13 | Mechanical Seal |
| 6 | Bearing Cover | 14 | Shaft |
| 7 | Drive End Bearing Housing | 15 | Shaft Sleeve |
| 8 | Non-drive End Bearing Housing | 16 | Bearing Pressing Ring |
| | | 17 | Packing Pressing Ring |
| | | 18 | Seal Cage |
| | | 19 | Gland Packing |
| | | 20 | Gland Cover |



Energy saving high efficiency Low pulsation unique design
High reliability Less maintenance Easy dismantling

MSE Performance Chart



Top Quality at Most Competitive Price Pumps.

WATERFLOW

DIN 2501 STANDARD
ISO 9001 : 2000

SINGLE-STAGE DOUBLE SUCTION SPLIT CASE PUMPS

เครื่องสูบน้ำชนิดดับเบิลซัคชั่นพร้อมมอเตอร์ ติดตั้งบนแพ

MSE series



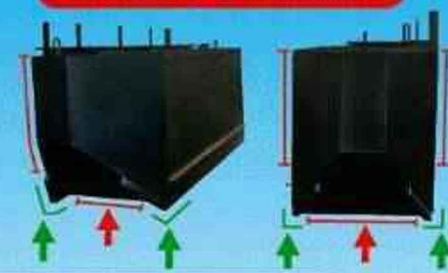
มอเตอร์ไฟฟ้า เอ็มเอสอี

เครื่องสูบน้ำชนิดดับเบิลซัคชั่น+มอเตอร์ที่ติดตั้งอยู่บนแพที่ใช้ในการสูบน้ำเพื่อระบบชลประทานตามองค์การบริหารส่วนตำบลต่างๆ ทั่วประเทศ



แพแบบที่ 1 หัวตัด

แพแบบที่ 2 หัวแหลม



แพ ซึ่งใช้วิธีการประกอบแบบพิเศษ (โดยการใช้เครื่องพับ)

แนวพับของเหล็กแผ่นจากเครื่องพับที่เห็นจากรูปบนซ้ายมือ ซึ่งมีได้เกิดจากการเชื่อมอันจะป้องกันมิให้เหล็กเกิดการผุกร่อนจากการครูดกับแนวหิน จนเป็นสาเหตุให้แนวเชื่อมเสียหายเป็นสนิมและผุกร่อนได้ง่าย แสดงรูปการพับโดยลูกครีแดงในแพทั้ง2แบบ คือทั้งแพแบบหัวตัดและแบบหัวแหลม

แพแบบหัวแหลม จะมีสนิมเหล็กกันการกระแทกจากของมีคมและ ป้องกันการครูดได้ท้องแพ แสดงรูปสันเหล็กโดยลูกครีเขียว



ภาพแสดงรูปแพของงาน อบต. ที่ติดตั้งเครื่องสูบน้ำชนิดดับเบิลซัคชั่นพร้อมมอเตอร์ขนาดต่างๆกัน พร้อมทั้งตู้ควบคุมที่ติดตั้งอยู่บนแพ ที่ประกอบและขึ้นรูปอย่างถูกต้องตามสเปคของงานกรมชลประทาน การพลังงานแห่งชาติ กรมเจ้าท่า กรมประมง ฯลฯ



Top Quality at Most Competitive Price Pumps.

WATERFLOW

DIN 2501 STANDARD
ISO 9001 : 2000

SINGLE-STAGE DOUBLE SUCTION SPLIT CASE PUMPS

Construction Characteristics



Optimum hydraulic

- Innovative hydraulic development
- Hydraulic pattern goes through test simulation
- Maximum efficiency and optimal flow behavior towards lowest NPSH



Smooth casting surface contributes to performance expectation



Double-flow Impeller

- Low pulsation
- offset blades
- Nil axial thrust
- Two halves symmetrically combined, gives hydraulically balance



Low vibration and deflection- in between bearing design, dynamically balanced heavy duty shaft

Replaceable shaft sleeves protect the pump shaft



Replaceable wear rings

Replaceable wear rings

Quality seal & bearing

Mechanical seal

Use our standard mechanical seal is Burgmann as special request



Soft packing

Carbonized fibre



Bearing

NTN, NSK, SKF, or any request

Multi-protection for bearing

SS water thrower and O-ring as primary protection



Oil seal further prevents dust or water ingress

Low spares requirement

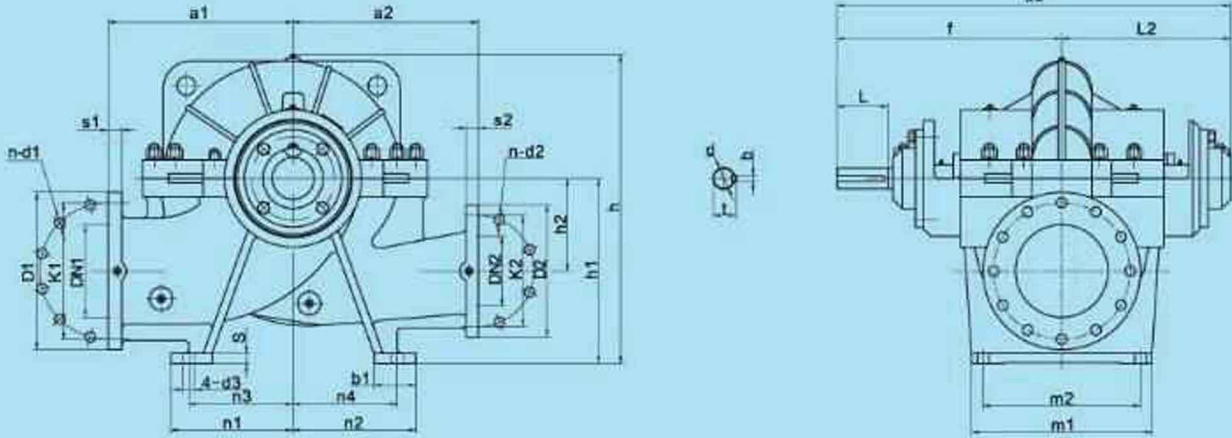


MSE Material of Construction

Part Description	Materials of Construction			Part Description	Materials of Construction		
	All Iron	Bronze Fitted	All Stainless Steel		All Iron	Bronze Fitted	All Stainless Steel
Casing	GG25	GG25	SS304, SS316	Seal chamber	GG25	GG25	SS304, SS316
Impeller	GG25	Bronze	SS304, SS316	Grand cover	GG25	GG25	SS304, SS316
Shaft	SS420	SS420	SS304, SS316	Lantern ring	GG25	GG25	SS304, SS316
Shaft sleeve	SS420	SS420	SS304, SS316	Bearing Housing	GG25	GG25	GG25
Wear ring	GG25	Bronze	SS304, SS316	Bearing Cover	GG25	GG25	GG25
Lock nut	SS420	SS420	SS304, SS316	Fastener	mild steel	SS420	SS304, SS316

Top Quality at Most Competitive Price Pumps.

MSE Outline Drawing & Installing Dimensions



Flange Standard Dimensions (ISO7005.2, DIN2501 PN16, GB/T17241.6 PN1.6)

DN1/ DN2	80	100	125	150	200	250	300	350	400	500	600	700
K1/K2	160	180	210	240	295	355	410	470	525	650	770	840
D1/D2	200	220	250	285	340	405	460	520	580	715	840	910
S1/S2	22	24	26	26	30	32	34	38	40	46	54	54
n-d1/ n-d2	8-Φ17.5	8-Φ17.5	8-Φ17.5	8-Φ22	12-Φ22	12-Φ26	12-Φ26	16-Φ26	16Φ-30	20-Φ33	20-Φ36	24-Φ36

MSE Performance table

Model	Flange		Pump body								Shaft							Foot					
	DN1	DN2	a1	a2	f	l2	l3	h	h1	h2	m1	m2	n1	n2	n3	n4	b1	d3	s	d	b	l	t
MSE80-210	125	80	300	300	385	300	685	480	315	140	320	270	205	205	170	170	80	Φ25	22	Φ34	10	80	37.3
MSE80-270	125	80	300	300	385	300	685	505	315	140	320	270	205	205	170	170	80	Φ25	22	Φ34	10	80	37.3
MSE80-370	125	80	330	330	385	300	685	540	315	140	320	270	205	205	170	170	80	Φ25	22	Φ34	10	80	37.3
MSE100-250	150	100	330	330	385	300	685	545	355	170	320	270	235	235	200	200	80	Φ25	22	Φ34	10	80	37.3
MSE100-310	150	100	330	330	385	300	685	585	355	170	320	270	235	235	200	200	80	Φ25	22	Φ34	10	80	37.3
MSE100-375	150	100	370	370	385	300	685	610	355	170	320	270	235	235	200	200	75	Φ25	22	Φ34	10	80	37.3
MSE125-230	200	125	370	370	485	365	850	620	400	200	390	340	285	285	225	225	90	Φ25	22	Φ44	12	110	47.3
MSE125-290	200	125	370	370	485	365	850	635	400	200	390	340	285	285	225	225	90	Φ25	22	Φ44	12	110	47.3
MSE125-365	200	125	370	370	485	365	850	660	400	200	390	340	285	285	225	225	90	Φ25	22	Φ44	12	110	47.3
MSE125-500	200	125	450	450	485	365	850	715	400	200	390	340	320	320	280	280	85	Φ25	22	Φ44	12	110	47.3
MSE150-290	200	150	400	400	485	365	850	655	400	200	390	340	285	285	225	225	90	Φ25	22	Φ44	12	110	47.3
MSE150-360	200	150	400	400	485	365	850	670	400	200	390	340	285	285	225	225	90	Φ25	22	Φ44	12	110	47.3
MSE150-460	200	150	450	450	520	400	920	710	400	200	480	430	315	315	280	280	75	Φ30	35	Φ54	16	110	58.3
MSE150-605	200	150	600	500	520	400	920	885	500	300	480	430	390	390	350	350	95	Φ30	35	Φ54	16	110	58.3
MSE200-250	250	200	450	450	520	400	920	780	500	240	480	430	315	315	280	280	85	Φ25	25	Φ54	16	110	58.3
MSE200-320	250	200	450	450	520	400	920	800	500	240	480	430	315	315	280	280	85	Φ25	25	Φ54	16	110	58.3
MSE200-420	250	200	500	500	520	400	920	820	500	240	480	430	330	330	280	280	100	Φ25	25	Φ54	16	110	58.3
MSE200-520	250	200	600	600	614	464	1078	920	560	300	490	430	400	400	350	350	100	Φ28	28	Φ64	18	140	68.4
MSE200-670	250	200	650	550	614	464	1078	920	600	350	500	400	400	400	350	350	110	Φ30	35	Φ64	18	140	68.4
MSE250-280	300	250	500	500	614	484	1078	940	600	300	480	400	400	400	350	350	100	Φ30	28	Φ64	18	140	68.4
MSE250-370	300	250	500	500	614	464	1078	945	600	300	480	400	400	400	350	350	100	Φ30	28	Φ64	18	140	68.4
MSE250-480	300	250	550	550	695	515	1210	950	600	300	600	520	400	400	350	350	100	Φ30	32	Φ74	20	170	78.9
MSE250-600	300	250	650	550	695	515	1210	1050	630	350	600	520	400	400	350	350	110	Φ30	35	Φ74	20	170	78.9
MSE300-300	350	300	550	500	614	484	1078	1000	630	300	500	400	400	400	350	350	100	Φ30	30	Φ64	18	140	68.4
MSE300-435	350	300	650	550	695	515	1210	1050	670	350	600	520	400	400	350	350	100	Φ30	32	Φ74	20	170	78.9
MSE300-560	400	300	700	650	765	585	1350	1135	710	350	620	520	525	525	475	475	110	Φ30	35	Φ84	22	170	89.4
MSE300-700	400	300	750	650	765	585	1350	1235	750	400	620	520	530	530	475	475	120	Φ30	40	Φ84	22	170	89.4
MSE350-305	400	350	650	550	695	515	1210	1060	670	350	600	520	400	400	350	350	100	Φ30	32	Φ74	20	170	78.9
MSE350-360	400	350	650	550	695	515	1210	1090	670	350	600	520	400	400	350	350	100	Φ30	32	Φ74	20	170	78.9
MSE350-430	450	350	750	650	765	585	1350	1185	750	400	600	520	530	530	475	475	120	Φ30	35	Φ84	22	170	89.4
MSE350-510	400	350	700	650	765	585	1350	1185	750	400	620	520	525	525	475	475	110	Φ30	40	Φ84	22	170	89.4
MSE350-660	450	350	750	650	765	585	1350	1255	780	400	620	520	530	530	475	475	120	Φ30	40	Φ84	22	170	89.4
MSE400-410	500	400	700	550	840	655	1495	1205	800	400	750	650	420	420	370	370	120	Φ33	40	Φ75	20	170	79.9
MSE400-460	500	400	650	550	840	655	1495	1225	800	400	750	650	520	520	470	470	120	Φ33	40	Φ75	20	170	79.9
MSE400-520	500	400	750	650	765	585	1350	1380	900	450	700	600	550	550	500	500	120	Φ33	45	Φ84	22	170	89.4
MSE400-680	500	400	750	650	895	670	1565	1390	850	450	720	650	500	500	440	440	150	Φ33	40	Φ95	25	210	100.4
MSE500-510	600	500	850	750	940	755	1695	1490	950	475	900	600	560	560	500	500	150	Φ42	60	Φ85	22	170	90.4
MSE500-640	600	500	850	750	940	755	1695	1490	950	470	900	600	560	560	500	500	150	Φ42	60	Φ85	22	170	90.4
MSE500-700	600	500	1000	850	935	710	1645	1630	1050	550	790	660	720	720	660	660	150	Φ42	60	Φ105	28	210	111.4
MSE500-790	600	500	1000	900	1078	810	1888	1760	1100	600	1000	900	710	710	650	650	150	Φ42	60	Φ115	32	220	122.4
MSE500-890	600	500	1050	950	1078	810	1888	1855	1150	650	1000	900	710	710	650	650	150	Φ42	60	Φ115	32	220	122.4
MSE600-540	700	600	1100	900	940	755	1695	1695	1100	560	910	790	705	705	650	650	150	Φ42	60	Φ85	22	170	90.4
MSE600-620	700	600	1000	1000	1025	800	1825	1725	1100	545	950	850	725	725	665	665	150	Φ42	60	Φ105	28	210	111.4
MSE600-710	700	600	1000	1100	1078	810	1888	1710	1050	545	1020	900	710	710	650	650	150	Φ42	50	Φ115	32	220	122.4
MSE600-830	700	600	1100	1200	1130	855	1985	1850	1150	650	970	820	710	710	650	650	150	Φ42	60	Φ125	32	250	132.4

Top Quality at Most Competitive Price Pumps.