

ABOUT US

Patterson has built a trusted reputation for reliable pump installations worldwide - whether satisfying urban water or waste demands, harnessing and controlling ravaging floods, reclaiming arid deserts, taming rampaging and devastating fires, or protecting the planet's ecological balance, our pumps are trusted.

Around the globe, wherever liquid moves, in large volume or high pressure, you will find Patterson heavy-duty pumps and packaged systems. The world looks to Patterson to enhance safety and comfort in HVAC and fire suppression technology, exceeding pumping demands in water supply, irrigation, flood prevention, and wastewater treatment, make industrial solutions into liquid transfers, and fulfill heating or cooling needs to each of our clients.

All Patterson Fire Pumps and accessories are engineered to meet, or exceed, all applicable codes, including UL listings, FM and NYCBSA approvals and all NFPA-20 standards.

CHECK US OUT!













SEND US YOUR INSTALLATION PICTURES!

We want to see how it went! Use the QR code to upload your installation pictures. Send us an email afterward to learn how to receive a free gift at ppc-marketing@pattersonpumps.com



If you upload to the Dropbox, we reserve the right to use the photos





























HORIZONTAL SPLIT CASE

SINGLE AND MULTISTAGE

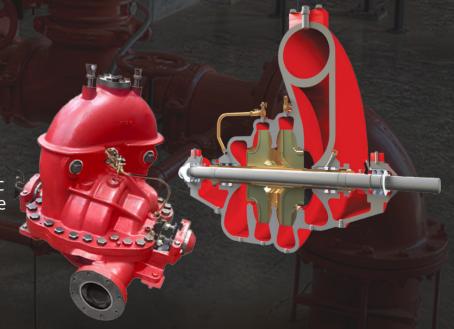
Patterson's Horizontal Split
Case (HSC) single and
multistage line-up of UL
Listed/FM Approved fire pumps
are the tried-and-true
workhorses of the pumping
industry. Designed for
durability, these pumps lead
the world at providing
dependable life and property
coverage for those who take
fire protection seriously.



The rugged single and multiple stage split case designs offer a range of high- and low-pressure pumping while still allowing for inline service without disturbing piping. All parts are standardized and accurately manufactured to allow for true alignment, balance and increased overall durability.



Whether your fire pump application requires an electric motor or a diesel engine, these listed and approved reliable pumps can be configured to meet your specific needs.



Horizontal Split Case Operating Specifications Single/Multiple Stage (Diesel Units)

offerings at nominal speeds ranging from 3000/2800/2600/2400/2100/1800/1500

Flow (gpm)	Pressure (psi)	Total Head (ft)
300	71 - 159	164 - 367
400	67 - 181	155 - 418
450	64 - 179	148 - 413
500	40 - 422	92 - 975
750	40 - 419	92 - 968
1000	40 - 396	92 - 915
1250	42 - 247	97 - 571
1500	49 - 285	113 - 658
2000	51 - 282	118 - 651
2500	46 - 234	106 - 541
3000	80 - 230	185 - 531
3500	71 - 265	164 - 612
4000	69 - 262	159 - 605
4500	66 - 256	152 - 591
5000	107 - 253	247 - 584

Horizontal Split Case Operating Specifications Single/Multiple Stage (Electric Units, 50 hz) offerings at nominal speeds ranging from 3000/1500

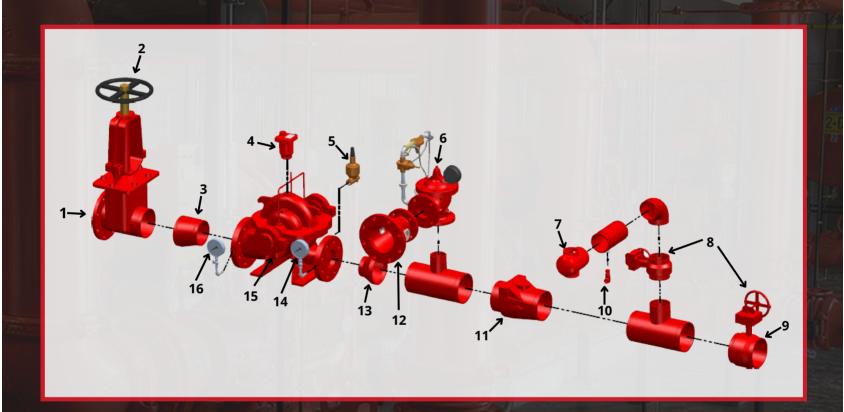
Pressure (psi)	Total Head (ft)
90 - 174	208 - 402
87 - 171	201 - 395
40 - 422	92 - 975
40 - 419	92 - 968
72 - 396	166 - 915
90 - 238	208 - 550
53 - 205	122 - 474
64 - 191	148 - 441
88 - 160	203 - 370
106 - 177	245 - 409
71 - 229	164 - 529
69 - 223	159 - 515
66 - 218	152 - 504
107 - 209	247 - 483
	87 - 171 40 - 422 40 - 419 72 - 396 90 - 238 53 - 205 64 - 191 88 - 160 106 - 177 71 - 229 69 - 223 66 - 218

Horizontal Split Case Operating Specifications Single/Multiple Stage (Electric Units, 60 hz) offerings at nominal speeds ranging from 3600/1800

Flow (gpm)	Pressure (psi)	Total Head (ft)
150	45 - 109	104 - 252
500	40 - 565	92 - 1305
750	40 - 600	92 - 1386
1000	40 - 578	92 - 1335
1250	42 - 260	97 - 601
1500	49 - 285	113 - 658
2000	51 - 282	118 - 651
2500	46 - 234	106 - 541
3000	80 - 230	185 - 531
3500	89 - 265	206 - 612
4000	98 - 262	226 - 605
4500	101 - 256	233 - 591
5000	108 - 253	249 - 584

HORIZONTAL SPLIT CASE

SINGLE AND MULTISTAGE



- 1. From Source
- 2. OS&Y Gate Valve
- 3. Eccentric Reducer
- 4. Air Release Valve
- **5. Casing Relief Valve**
- 6. Main Relief Valve
- 7. Hose Valve Header
- 8. Butterfly/OS&Y Gate Valve

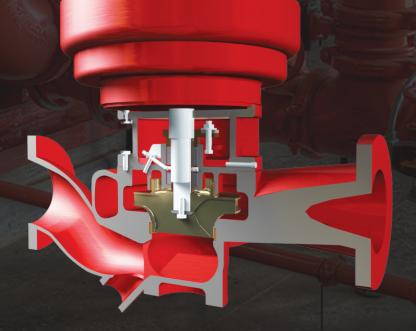
- 9. To Fire System
- 10. Drip Valve (To Waste)
- 11. Check Valve
- 12. Enclosed Waste Cone
- 13. Concentric Reducer
- 14. Discharge Gauge
- 15. Split Case Fire Pump
- 16. Suction Gauge

VERTICAL IN-LINE FIRE PUMPS

Patterson's V.I.P. series of Vertical In-Line Fire Pumps offer a simple alternative to horizontal split case pumps in fire applications with lower flow rates. Their unique design also minimizes energy consumption while lengthening service life.

These fire pumps are easy to install into existing pipelines. With the inlet and outlet on a common center line, only standard piping supports on either side of the pump are needed. These pumps are designed with a mounting foot that is compatible with a standard ANSI flange.





Designed for durability, every pump has standard packing and a two-piece gland. Design accommodates a standard JP/JM motor. An integral clean-out port on the suction side enables cleaning without disassembly.

Vertical In-Line Operating Specifications (Electric Units, 50 hz) offerings at nominal speeds ranging from 3000/1500

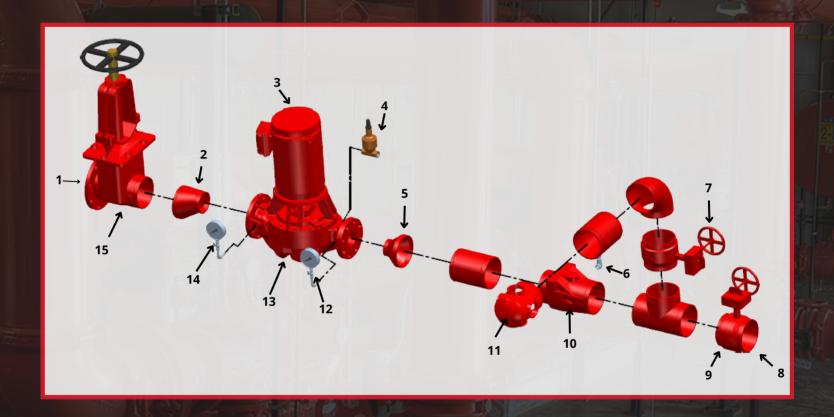
Pressure (psi)	Total Head (ft)
40 - 150	92 - 347
40 - 149	92 - 344
40 - 146	92 - 337
53 - 146	122 - 337
41 - 152	95 - 351
43 - 152	99 - 351
67 - 151	155 - 349
41 - 100	95 - 231
44 - 95	102 - 219
	40 - 150 40 - 149 40 - 146 53 - 146 41 - 152 43 - 152 67 - 151 41 - 100

Vertical In-Line Operating Specifications (Electric Units, 60 hz) offerings at nominal speeds ranging from 3600/1800

Flow (gpm)	Pressure (psi)	Total Head (ft)
50	40 - 135	92 - 312
75	42 - 134	97 - 310
100	63 - 131	146 - 303
150	45 - 213	104 - 492
200	42 - 212	97 - 490
250	40 - 211	92 - 487
300	50 - 210	116 - 485
400	47- 181	109 - 418
450	44 - 181	102 - 418
500	41 - 181	95 - 418
750	47 - 148	109 - 342
1000	40 - 141	92 - 326
1250	52 - 137	120 - 316

VERTICAL IN-LINE

FIRE PUMPS



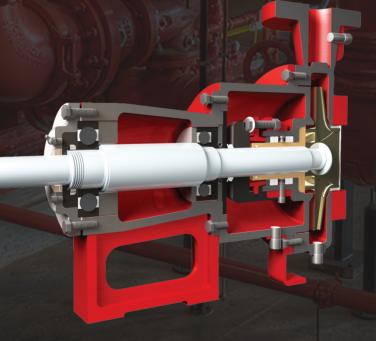
- 1. From Source
- 2. Eccentric Reducer
- 3. Electric Motor
- 4. Casing Relief Valve
- **5. Concentric Reducer**
- 6. Drip Valve (To Waste)
- 7. Butterfly/OS&Y Gate Valve
- 8. To Fire System

- 9. Butterfly/OS&Y Gate Valve
- 10. Check Valve
- 11. Hose Valve Header
- 12. Discharge Gauge
- 13. VIP Fire Pump
- 14. Suction Gauge
- 15. OS&Y Gate Valve



Some offerings are available in two configurations: frame-mounted or close-coupled, which can be flanged or threaded. These pumps are engineered to last with a precision-cast, dynamically balanced and enclosed impeller that minimizes vibration and maximizes bearing life. Engineered for lasting integrity with standard packing and a shaft sleeve, each unit is hydrostatically pressure-tested to 1-1/2 times shutoff before shipping.





Removing the rotating element without disturbing suction and discharge connections is easy because of our unique, back pullout design. Registered fits at the volute and volute cover maintain pump alignment. With their compact design, these pumps are perfect for applications where space is limited.

End Suction Operating Specifications (Diesel Units)

offerings at nominal speeds ranging from 3000/2800/2600

Flow (gpm)	Pressure (psi)	Total Head (ft)
150	40 - 139	92 - 321
200	41 - 138	95 - 319
250	41 - 136	95 - 314
300	48 - 134	111 - 310
400	42 - 148	97 - 342
450	57 - 146	132 - 337
500	65 - 176	150 - 407
750	63 - 151	146 - 349
1000	118 - 198	273 - 457
1250	112 - 194	259 - 448
1500	103 - 187	238 - 432

Note: Speeds/conditions may be limited in some regions due to the availability of listed engines which meet emissions requirements.

End Suction Operating Specifications (Electric Units, 50 hz)

offerings at a nominal speed of 3000

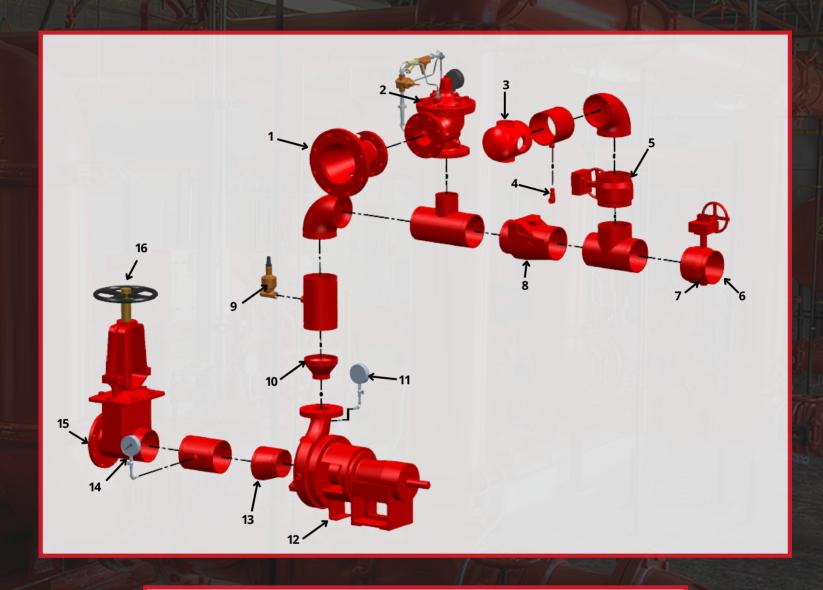
Flow (gpm)	Pressure (psi)	Total Head (ft)
150	40 - 134	92 - 310
200	40 - 133	92 - 307
250	43 - 132	99 - 305
300	55 - 130	127 - 300
400	57 - 143	132 - 330
450	54 - 141	125 - 326
500	75 - 151	173 - 349
750	83 - 151	192 - 349
1000	115 - 194	266 - 448
1250	110 - 189	254 - 437
1500	100 - 183	231 - 423

End Suction Operating Specifications (Electric Units, 60 hz)

offerings at a nominal speed of 3600

Flow (gpm)	Pressure (psi)	Total Head (ft)
150	55 - 193	127 - 446
200	53 - 193	122 - 446
250	51 - 193	118 - 446
300	62 - 191	143 - 441
400	74 - 209	171 - 483
450	72 - 208	166 - 480
500	69 - 206	159 - 476
750	99 - 147	229 - 340

END SUCTION FIRE PUMPS



- 1. Enclosed Waste Cone
- 2. Main Relief Valve
- 3. Hose Valve Header
- 4. Drip Valve (To Waste)
- 5. Butterfly/OS&Y Gate Valve
- 6. To fire System
- 7. Butterfly/OS&Y Gate Valve
- 8. Check Valve

- 9. Casing Relief Valve
- **10. Concentric Reducer**
- 11. Discharge Gauge
- 12. End Suction Fire Pump
- 13. Eccentric Reducer
- 14. Suction Gauge
- 15. From Source
- 16. OS&Y Gate Valve



Vertical Turbine Operating Specifications (Electric Units, 50hz and diesel driven)

offerings at nominal speeds of 1500

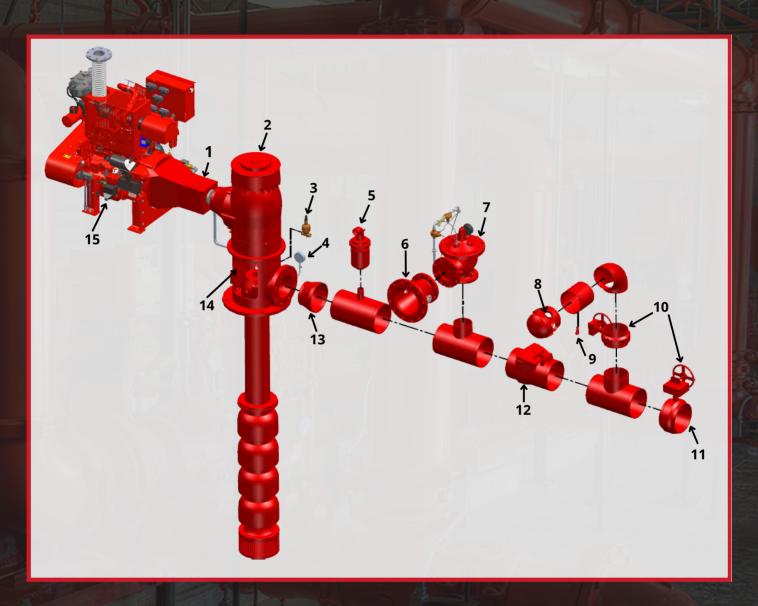
Flow (gpm)	Pressure (psi)	Total Head (ft)
500	43 - 277	99 - 640
750	42 - 305	97 - 704
1000	44 - 272	101 - 628
1250	47 - 207	109 - 478
1500	45 - 199	104 - 459
2000	47 -196	109 - 452
2500	60 - 189	139 - 437
3000	55 - 180	127 - 416
3500	55 - 126	127 - 291
4000	74 - 273	171 - 631
4500	70 - 265	162 - 612
5000	68 - 255	157 - 589

Vertical Turbine Operating Specifications (Electric Units, 60hz and diesel driven) offerings at nominal speeds of 1800

Flow (gpm)	Pressure (psi)	Total Head (ft)
150	43 - 277	99 - 640
200	40 - 264	92 - 610
250	40 - 244	92 - 564
500	59 - 333	136 - 769
750	67 - 403	155 - 931
1000	80 - 440	185 - 1016
1250	78 - 403	180 - 931
1500	70 - 247	162 - 571
2000	64 - 281	148 - 649
2500	67 - 280	155 - 647
3000	55 - 285	127 - 658
3500	107 - 271	247 - 626
4000	78 - 233	180 - 538
4500	115 - 177	266 - 409
5000	108 - 160	249 - 370

Note: Speeds/conditions may be limited in some regions due to the availability of listed engines which meet emissions requirements.

VERTICAL TURBINE FIRE PUMPS



- 1. Drive Shaft with Guard
- 2. Right Angle Gear or Electric Motor Drive
- 3. Case Relief Valve
- 4. Discharge Gauge
- 5. Air Release Valve
- 6. Enclosed Waste Cone
- 7. Main Relief Valve

- 8. Hose Valve Header
- 9. Drip Valve (To Waste)
- 10. Butterfly/OS&Y Gate Valve
- 11. To Fire System
- 12. Check Valve
- 13. Concentric Reducer
- 14. Vertical Turbine Fire Pump
- 15. Diesel engine

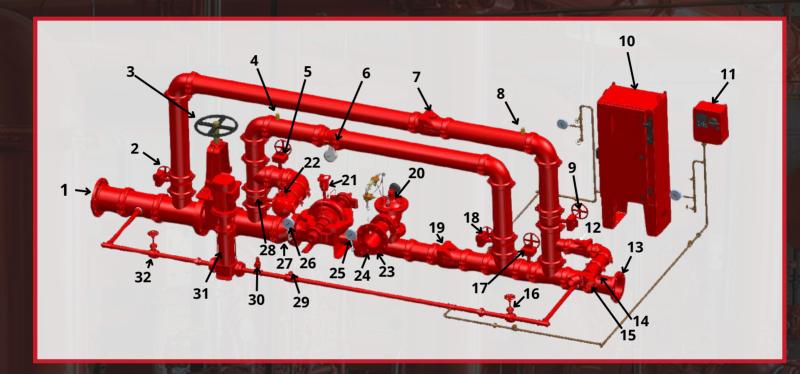
PRE-PAC SYSTEMS FIRE PUMPS

The Patterson Pre-Pac is one of the most popular and reliable, self-contained fire protection pump systems on the market today. It is compact, highly efficient, and cost effective. From high-density residential complexes to industrial and commercial sites, the Pre-Pac helps you properly protect the lives and property in your care even while facing budget constraints and space limitations.

Created to provide highly efficient, quality fire control in less space and for less costs. Each Pre-Pac is built in our environmentally controlled facility to your exact specifications. Our knowledge, expertise and complete line of quality fire pumps and accessories ensures that your Pre-Pac system will provide the very best in pumping technology when you need it. We can also provide special metallurgies for seawater service.



PRE-PAC SYSTEMS FIRE PUMPS

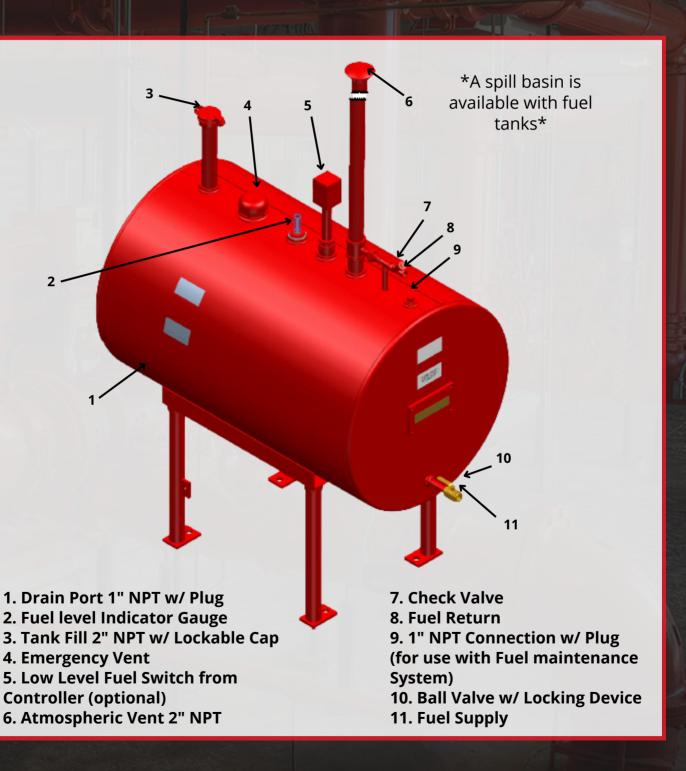


- 1. Suction
- 2. Butterfly/OS&Y Gate Valve
- 3. OS&Y Gate Valve
- 4. Air Release Valve
- 5. Butterfly/OS&Y Gate Valve
- 6. Flow Meter
- 7. Check Valve
- 8. Air Release Valve
- 9. Butterfly/OS&Y Gate Valve
- 10. Fire Pump Controller
- 11. Jockey Pump Controller
- 12. Check Valve
- 13. Discharge
- 14. Drip Valve (To Waste)
- 15. Fire Dept. Connection
- 16. OS&Y Gate Valve

- 17. Butterfly/OS&Y Gate Valve
- 18. Butterfly/OS&Y Gate Valve
- 19. Check Valve
- 20. Main Relief Valve
- 21. Air Release Valve
- 22. Hose Valve Header
- 23. Enclosed Waste Cone
- 24. Concentric Reducer
- 25. Discharge Gauge
- 26. Suction Gauge
- 27. Eccentric Reducer
- 28. Butterfly/OS&Y Gate
- 29. Check Valve
- 30. Pressure Relief Valve
- 31. Jockey Pump
- 32. OS&Y Gate Valve

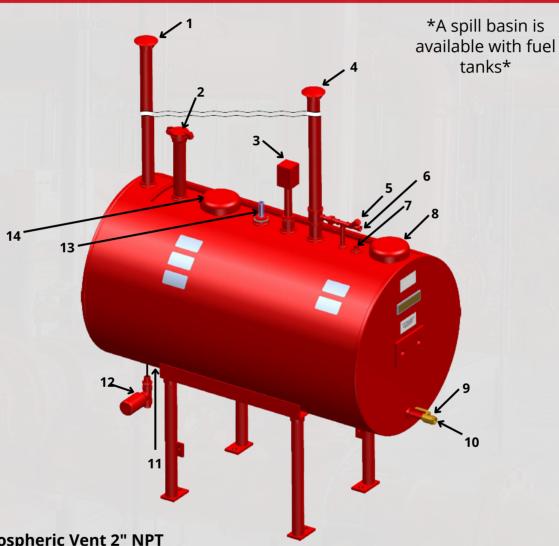
FUEL TANK SINGLE WALL

CONSTRUCTED AND LISTED IN ACCORDANCE WITH UL 142



FUEL TANK DOUBLE WALL

CONSTRUCTED AND LISTED IN ACCORDANCE WITH UL 142



- 1. Atmospheric Vent 2" NPT
- 2. Tank Fill 2" NPT w/ Lockable Cap
- 3. Low Level Fuel Switch from Controller (optional)
- 4. Atmospheric Vent 2" NPT
- 5. Check Valve
- 6. Fuel Return
- 7. 1" NPT Connection w/ Plug (for Use w/ Fuel **Maintenance System)**
- 8. Emergency Vent
- 9. Ball Valve w/ Locking Device
- 10. Fuel Supply
- 11. Drain Port 1" NPT w/ Plug
- 12. Leak Sensor (optional)
- 13. Fuel Level Indicator Gauge
- 14. Emergency Vent





WASTE WATER



The Pump People.





