

SPP

PUMPS



Enriching Lives
India



India



UK



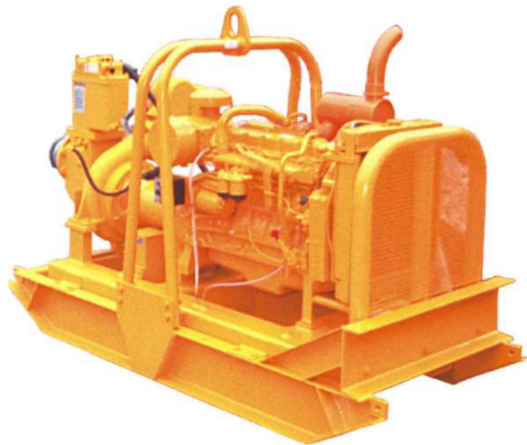
South Africa



USA



The Netherlands



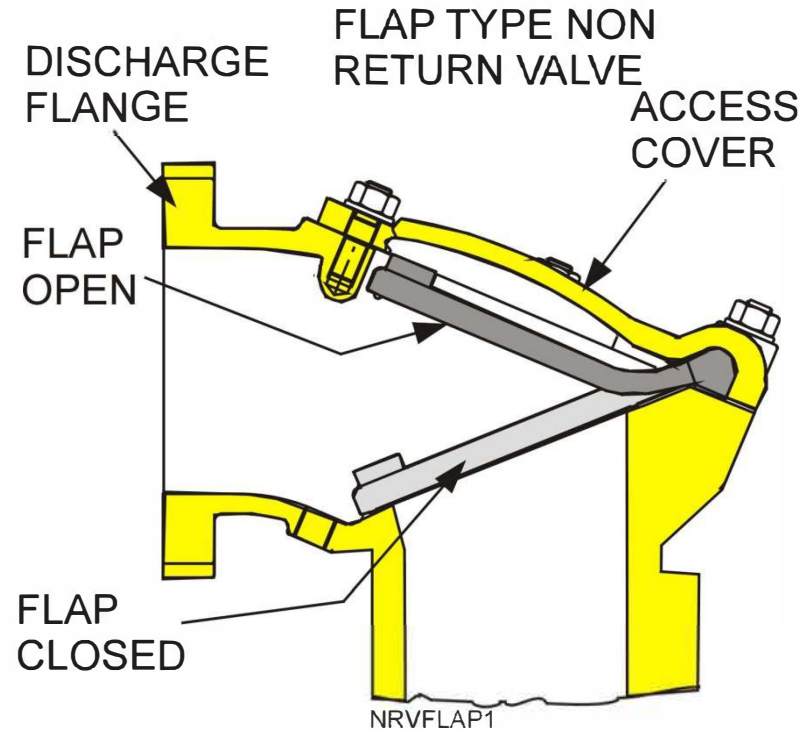
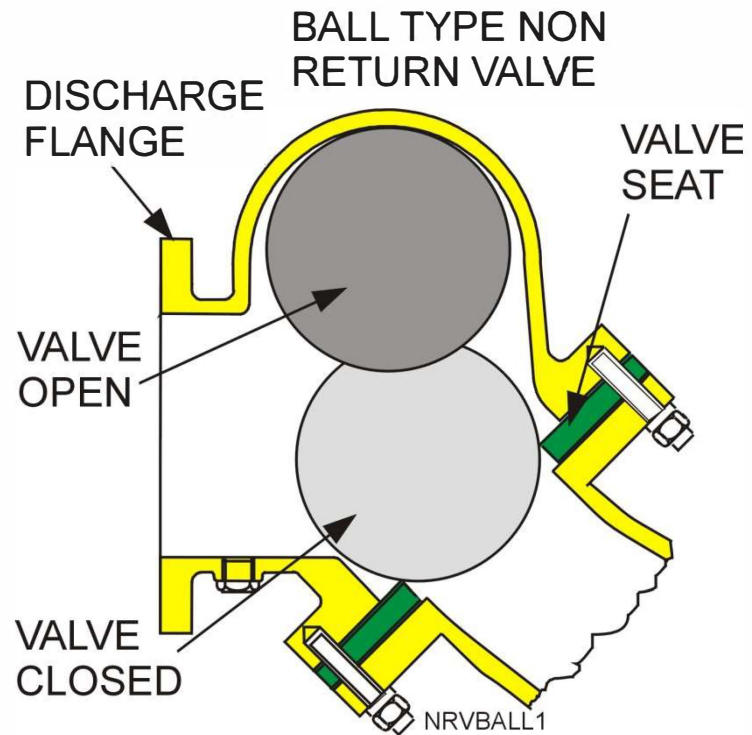


What is Autoprime?

- Used extensively in the construction and rental industry
World-wide
- Vacuum-assisted centrifugal pump range
- Fully automatic self-priming
- Numerous applications – versatile
- Mobile and durable units
- Primarily engine driven
- Dry-running capability
- Solids handling



Non Return Valves in Autoprime



Product Range Overview

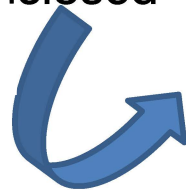
APS Range:

- Discharge size from 50 mm to 350mm
- Flow range up to 1200 m³/hr
- Head Range up to 90m
- Solid size from 18mm to 120 mm
- Gland Packed version pump.
- Skid mounted
- Open Trailer option
- Canopy Unit option



Type of Impellers

Two vane enclosed impeller



Single vane enclosed impeller



Three vane semi-open impeller

N and P Type



Q and R Type

Free flow impeller.



QP Type

APM Range:

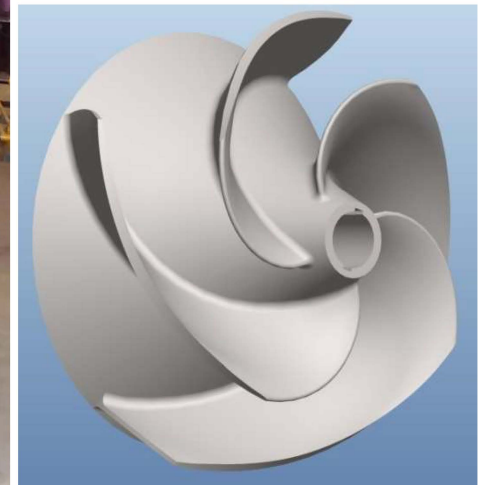
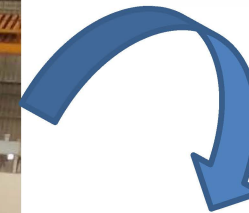
- Discharge size from 200 mm to 600 mm
- Flow range up to 7000 m³/hr
- Head Range up to 30 m
- Solid size from 35 mm to 110 mm
- Gland Packed version pump.
- Skid mounted
- Open Trailer option
- Canopy Unit option



Flood Control : APM Open Trailer



Mixed Flow
Impeller



APSC Range:

- Discharge size from 50 mm to 250 mm
- Flow range up to 1080 m³/hr
- Head Range up to 120 m
- Gland Packed version pump.
- Skid mounted
- Open Trailer option
- Canopy Unit option



- **SPP UK Range:**

- 3" to 16" discharge
- Heads up to 160 metres (525 feet)
- Flows up to 2600 m³/h (11,500 USGPM)
- Solids handling up to 120 mm (4.75")
- Vacuum assisted priming systems
- Noise attenuated and open units
- Clean air coalescing
- Double mechanical seals
- A comprehensive range
- Covering most applications



General Purpose Pumps:

- PM, PE, Q, AL and ACE
- Primarily 3", 4", 6" and 8" discharge

High Head Pumps:

- HH and XH (also some XF)
- Primarily 4" and 6" discharge

High Flow Pumps:

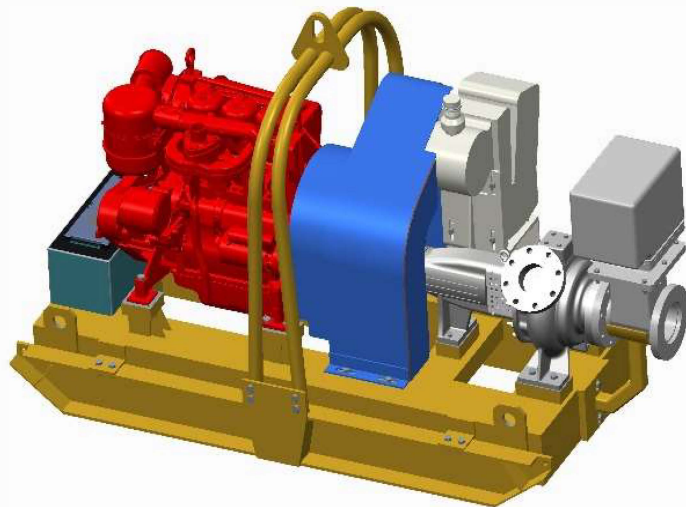
- XF
- Primarily 8", 10", 12" and 16" discharge
- Also considered High Head



APS150/60 (N26) Auto-Priming Pumpset (6")

The AUTOPRIME APS150/60(N26) model is a Diesel Engine driven Self-Priming Centrifugal pump unit designed to pump liquids containing sand, sewage and semi solids.

Auto priming features with Oil bath Mechanical seal design allows dry running & quicker air removal makes this model extremely suitable for typical applications like Site Dewatering, Well point Dewatering, removal of ground and rain water from excavations, Trenches, Footings, Man holes & ponds and flood water control.



APS With Skid



APS With Trolley(Design Stage)



Standard Design Features

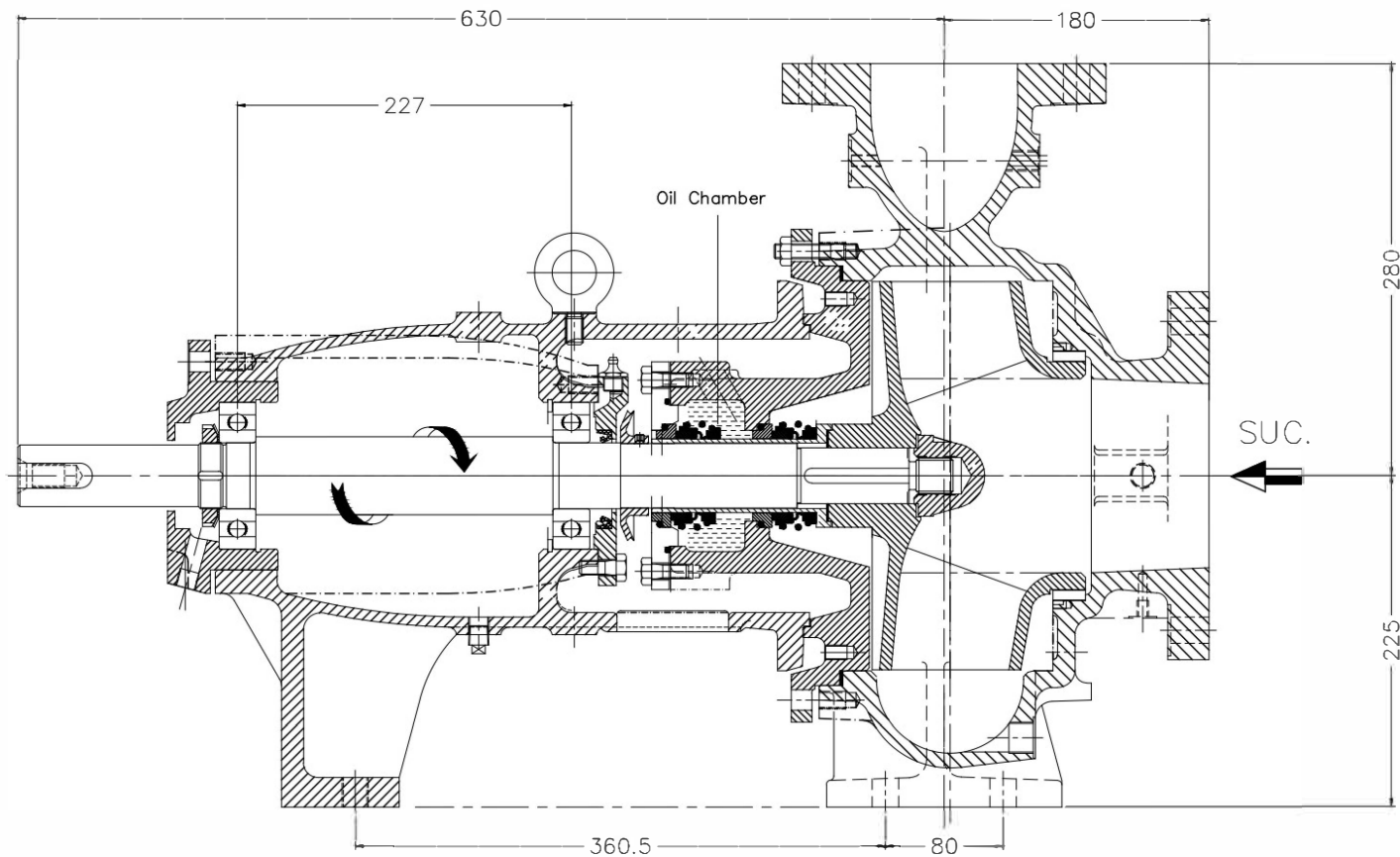
- Pump will prime itself automatically when liquid is present and can be left running unattended.
- 65 cfm (110m³/h) Vacuum Pump with multiple pass air filter giving low emissions to atmosphere.
- Available in options of 4 wheel Trolley mounted with tow bar or Skid mounted
- Rugged construction requires minimal operator maintenance.
- Pump will pass solids up to 2.75" (70mm) diameter
- Reliable mechanical seals which allow dry running for extended periods.
- Fully enclosed 12 volt battery for safety and security
- Minimum of 8 to 16 hours running time between refueling
- Parking Brakes & Fuel Level indicator as standard scope of supply for Trolley sets
- Inbuilt fuel tank & base frame inside the trolley or Skid
- Support at front & rear end of trolley (4 Nos.) for more stability during operation
- Single point lifting for entire trolley or Skid along with pump-set



Pump Specification:

Flow Rate	360 m3/h Max	Diesel Engine	KOEL HA394
Discharge Head	38m Max		32 HP for 1500 rpm
Working Pressure	16 bar Max		38 HP for 1800 rpm
Max Solids Size	70mm Dia.	Starting	12 Volt Battery
Pump Speed	1500 rpm or 1800 rpm	Fuel Tank Capacity	155 liters
Suction Size	6" BS 10 Table D	Full Load Running Time	24 hours
Discharge Size	6" BS 10 Table D	Dimensions(Lx W x H)	2300x1110x1470
Pump Casing	Cast Iron	Chassis Options	Site trailer, Skid
Impeller	CF8M	Weight Dry	1160 kg
Pump Shaft	Stainless Steel 410		
Case Wear Ring	Stainless Steel 316		
Shaft Sleeve	Stainless Steel 316		
Sealing	Mechanical Seal with Oil bath		
Seal Faces	Carbon/Silicon Carbide		
Seal Elastomer	Viton		
NRV	6" Swing type Check Valve		

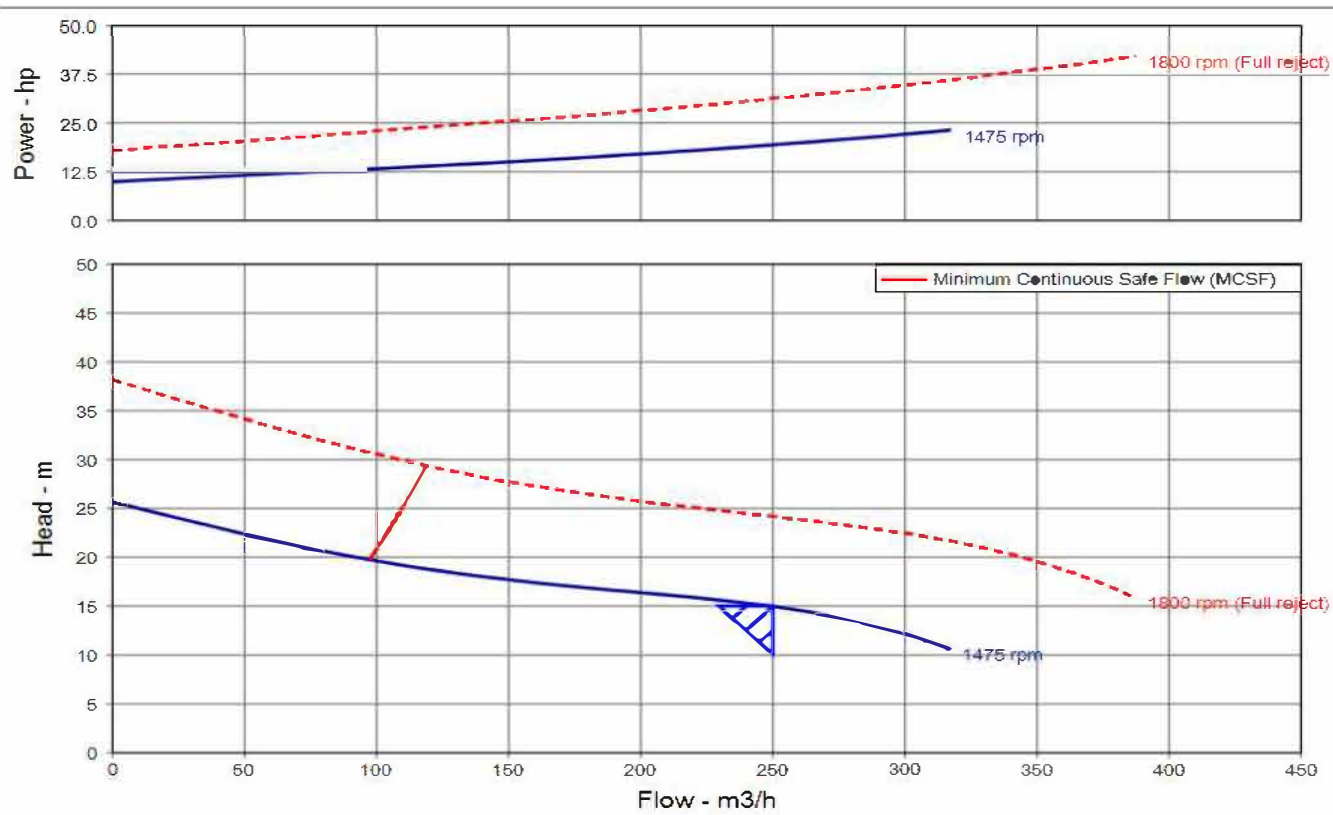
Cross-section Drawing



APS 150-60



Pump Performance Curve:





General Purpose Pumps: AL & AC

Pump Designation	Hose Size		Max Flow m3/h	Max Head m	Max Solids Dia. mm	Fuel Tank litres	Full Load Run Time hours	Priming System Standard	Vacuum Pump cfm
	in	mm							
Open Diesel Driven Pump units for Medium Head Duty									
AC50	2	50	37	28	28	14	12	Mechanical	6
AC75	3	80	62	28	28	14	12	Mechanical	6
AC80	3	80	100	28	40	35	25	Mechanical	18
AC100	4	100	136	28	40	35	25	Mechanical	18
AL100M	4	100	150	25	44	70	21	Mechanical	25
AL150	6	150	210	28	50	110	22	Mechanical	25/60
AL150M	6	150	285	31	52	122	25	Mechanical	60
AL 200	8	200	400	49	48	122	16	Mechanical	60

General Purpose Pumps: Q Bundied Unit

Pump Designation	Hose Size		Max Flow m3/h	Max Head m	Max Solids Dia. mm	Fuel Tank litres	Full Load Run Time hours	Priming System Standard	Vacuum Pump cfm
	in	mm							
Enclosed Diesel Driven Pump Units for Medium Head Duty									
QI 100 RT	4	100	200	28	40 x 65 Long	160	65	Electric	65
QI 100 EF & EV	4	100	200	28	40 x 65 Long	110	38	Electric	65
QI 100 POD	4	100	200	28	40 x 65 Long	110	38	Electric	65
QI 150 RT	6	150	380	25	65 x 80 Long	160	24	Electric	65
QI 150 EF & EV	6	150	380	25	65 x 80 Long	110	26	Electric	65
QI 150 POD	6	150	380	25	65 x 80 Long	110	26	Electric	65
QI 200 RT	8	200	570	37	75 x 90 Long	160	24	Electric	65
QI 200 EF & EV	8	200	570	37	75 x 90 Long	220	28	Electric	65
QI 200 POD	8	200	570	37	75 x 90 Long	220	28	Electric	65



High Head Pumps:

Pump	Hose		Max Flow	Max Head	Max Solids	Fuel	Full Load Run Time	Priming	Vacuum
Designation	Size					Tank		System	Pump
	in	mm	m3/h	m	Dia. mm	litres	hours	Standard	cfm

Diesel Driven Pump units for High Head and Extra High Head Duty

QHH80 EF & EV	3	80	120	89	20	220	26	Electric	65
QHH80 POD	3	80	120	89	20	220	26	Electric	65
HH100	4	100	325	76	32	200	26	Mechanical	25
HH150	6	150	600	100	45	300	21	Mechanical	25
XH150	6	150	450	160	62	800	16	Electric	65



High Flow Pumps:

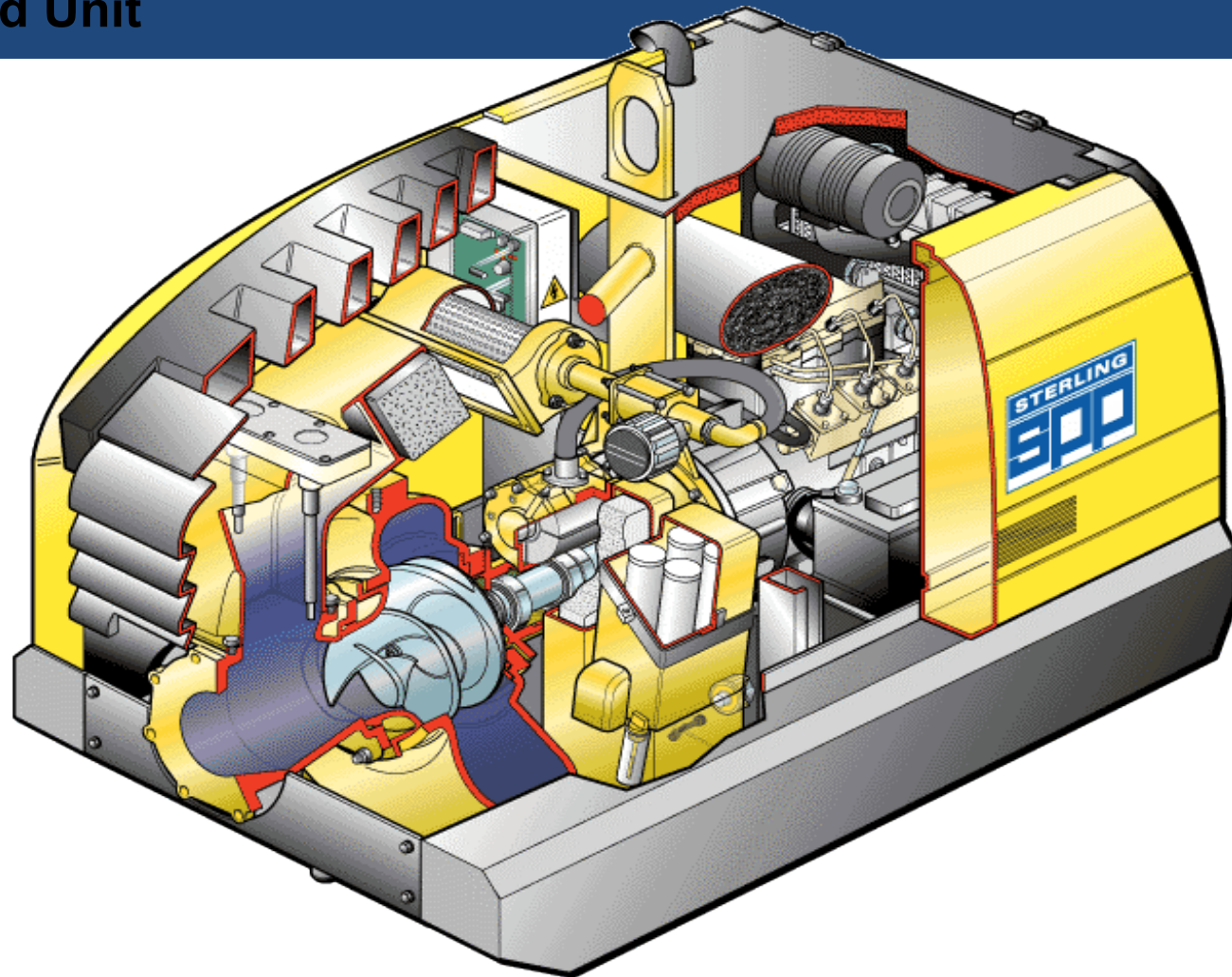
Pump	Hose		Max Flow	Max Head	Max Solids	Fuel Tank	Full Load Run Time	Priming System	Vacuum Pump
Designation	Size								
	in	mm	m3/h	m	Dia. mm	litres	hours	Standard	cfm

Diesel Driven Pump units for Extra Flow Duty

Chassis, Engine & Fuel Tank are specified to meet customer requirements.

							Max kW		
XF200/306	8	200	700	50	90		60	Mech/Elec	60/65
XF200/325	8	200	800	59	90	Fuel	74	Mech/Elec	60/65
XF250/382	10	250	1100	84	90	Tank	136	Mech/Elec	60/65
XF300/387	12	300	1400	81	112	Sized	164	Mech/Elec	60/65
XF300/418	12	300	1700	95	112	as	216	Mech/Elec	60/65
XF300/475	12	300	1800	130	112	Reqd.	348	Mech/Elec	60/65
XF400/436	16	400	2500	68	100		325	Mech/Elec	60/65

General Purpose Pumps: Q Bundied Unit



General Purpose Pumps: Q Bunded Unit

Benefits of the Q series range used for other products with a versatility in the way the product is packaged to ensure the customer and end user gets what they want and a benefit.



General Purpose Pumps: Q Bunded Unit

- Environmentally concerned
- Low noise
- Low emissions
- Versatility in application
- High commonality of parts
- Reduced whole-life costs
- Durability
- Compact and manoeuvrable
- Differentiated product and identity
- SPP continue to develop



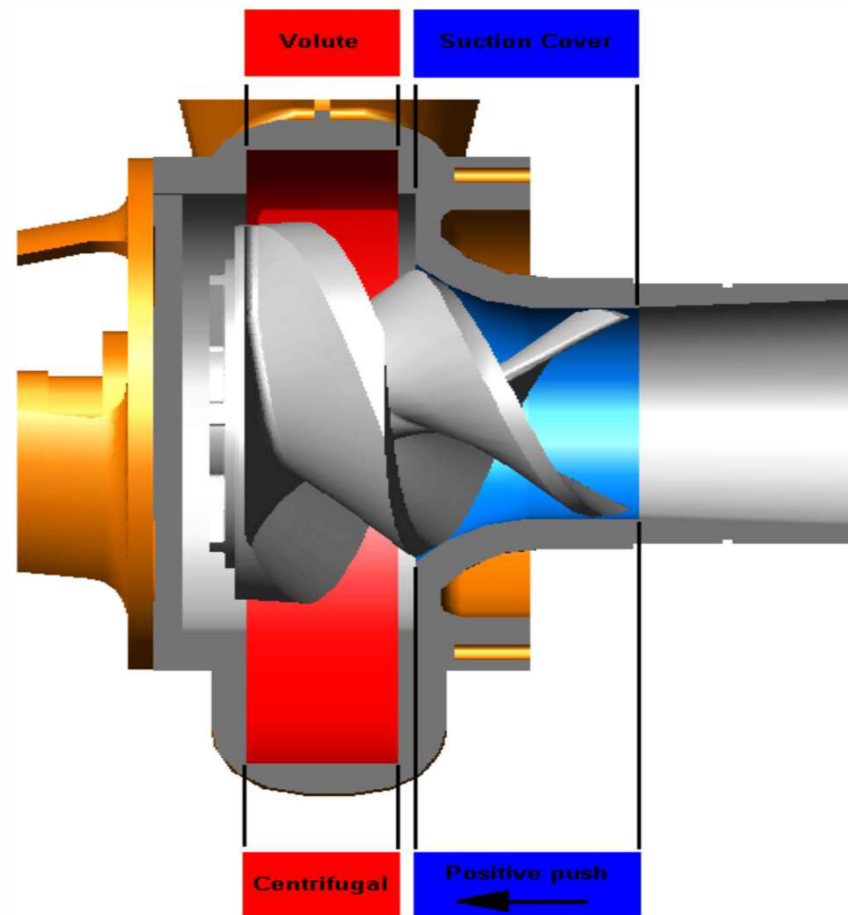
General Purpose Pumps: Q Bunded Unit

- Elongated solids handling
- Lockable tamper proof canopy
- Leak free double mechanical seals
- Dry running capability
- Impact resistant polyethylene doors and panels
- Large capacity fuel tank for long running period
- Latest emission compliant engines
- Fully bunded / double skin
- Low noise level emissions

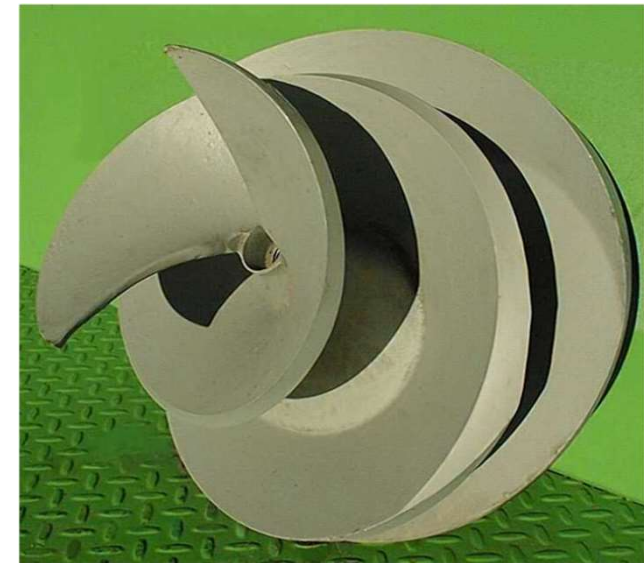
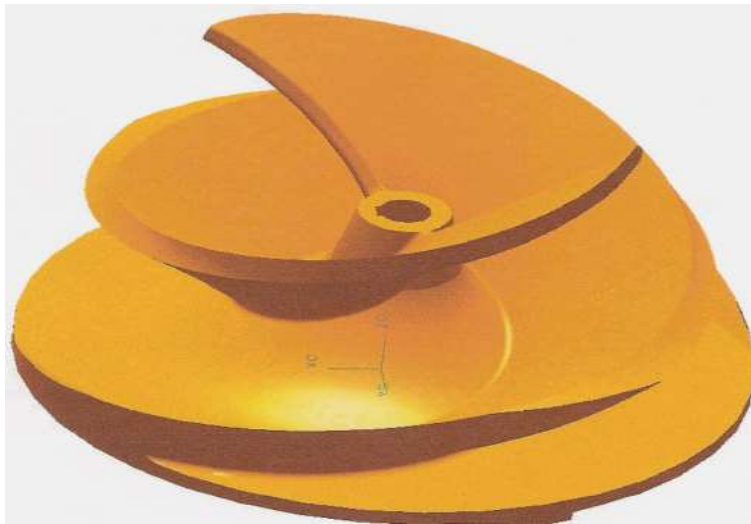




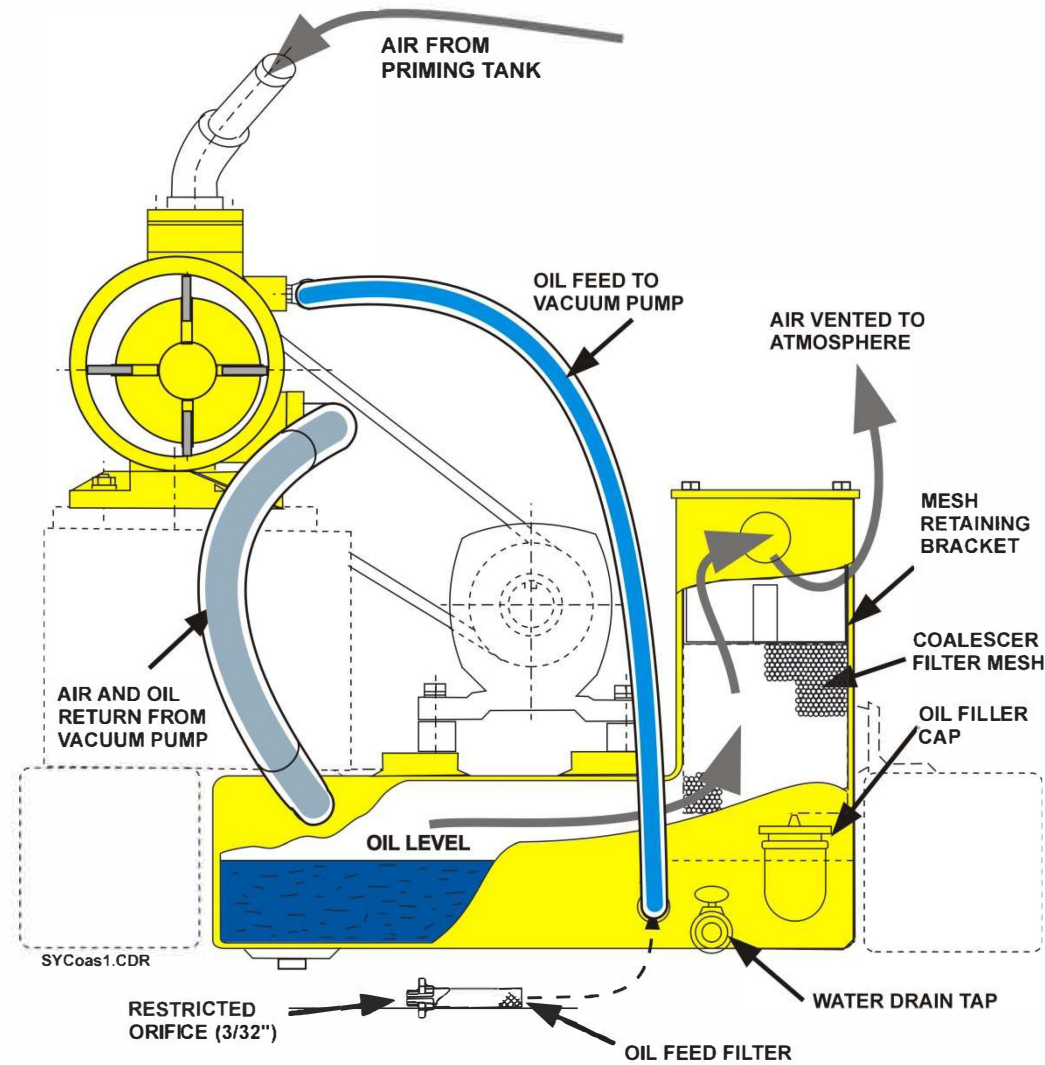
Specially designed Impeller: Inducement effect provides excellent suction lift performance along the curve



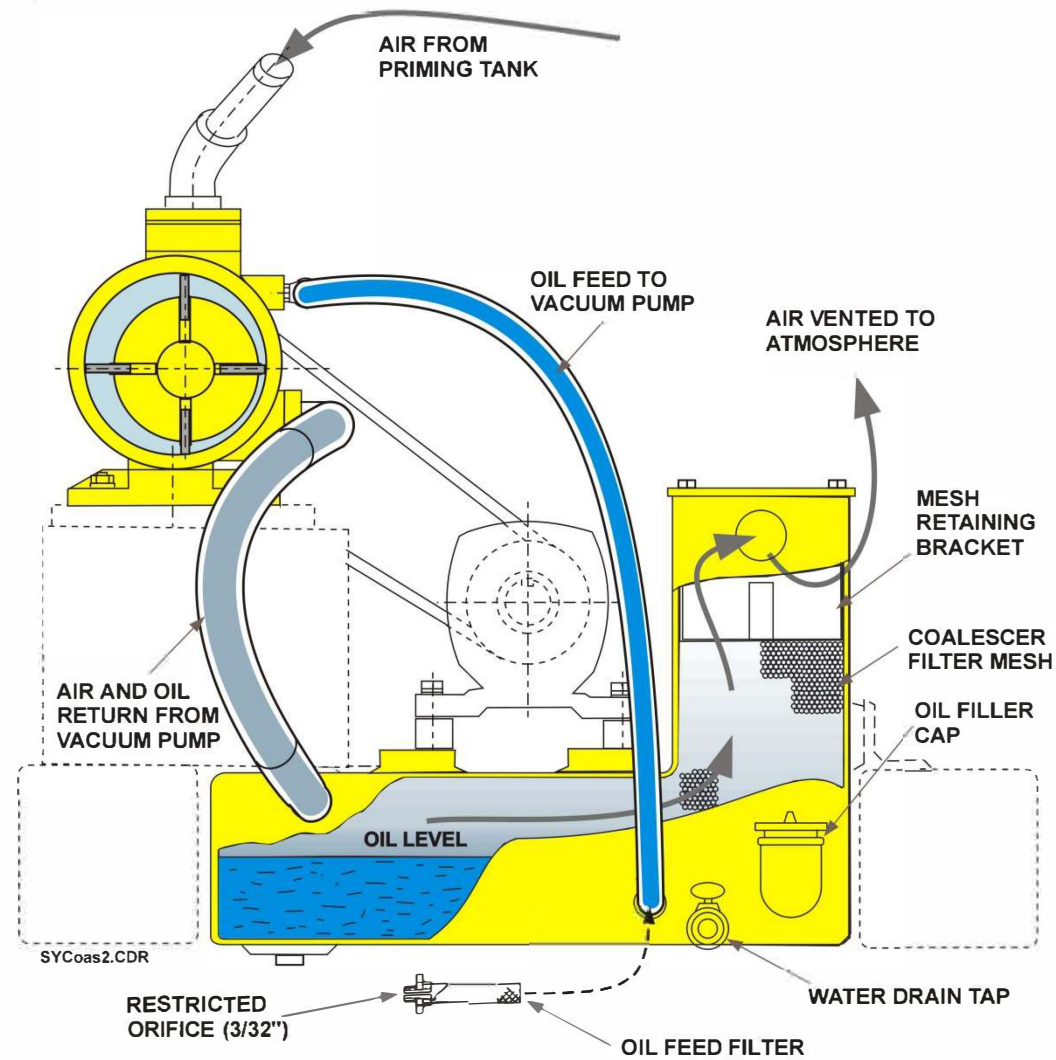
- Balance in operation is achieved through symmetry
- Double vane design is unique to SPP – now copied
- Low shear screw impeller that can handle viscous and sludge type liquids
- Designed for 1:1 engine operating speeds
- Incorporates extra facility for ease of impeller removal



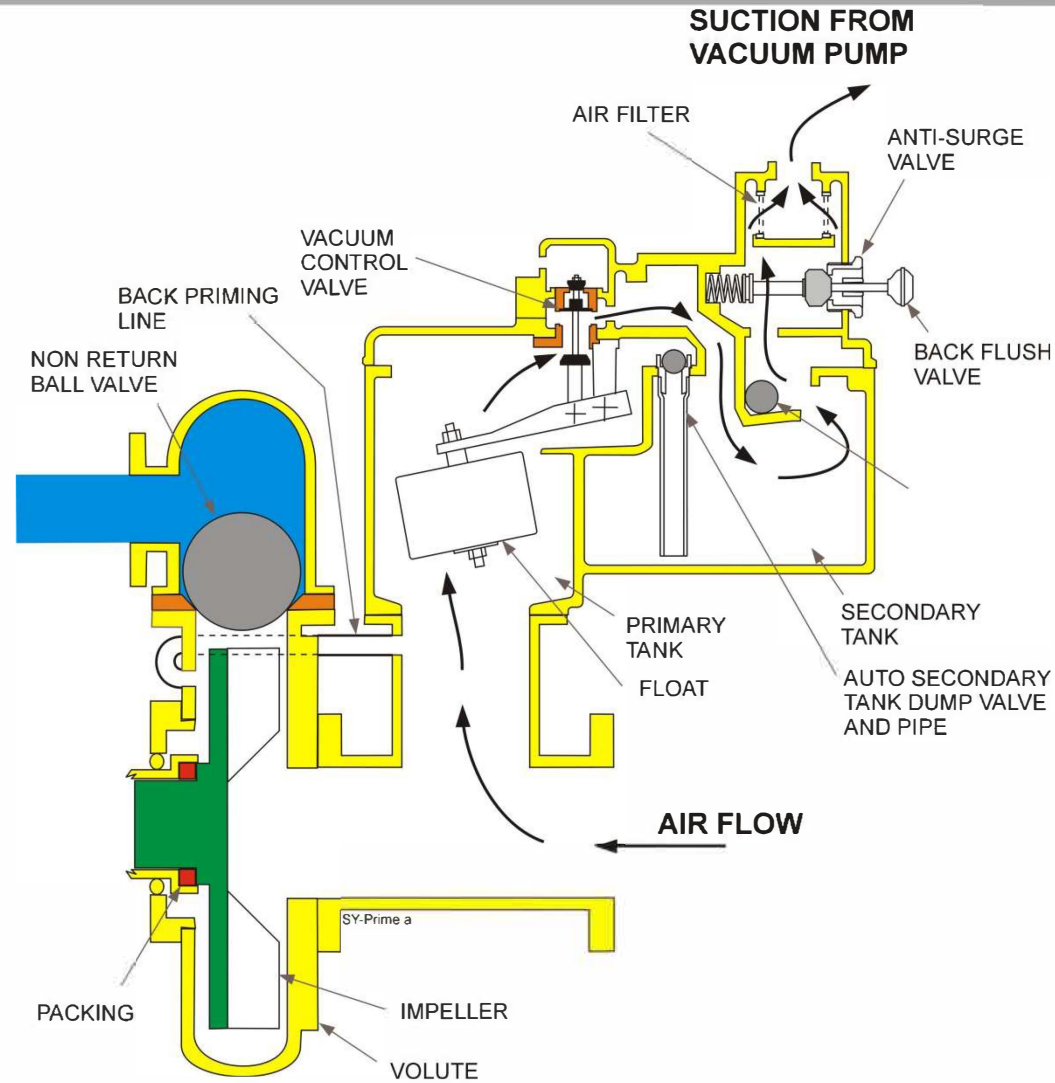
Auto prime working Philosophy



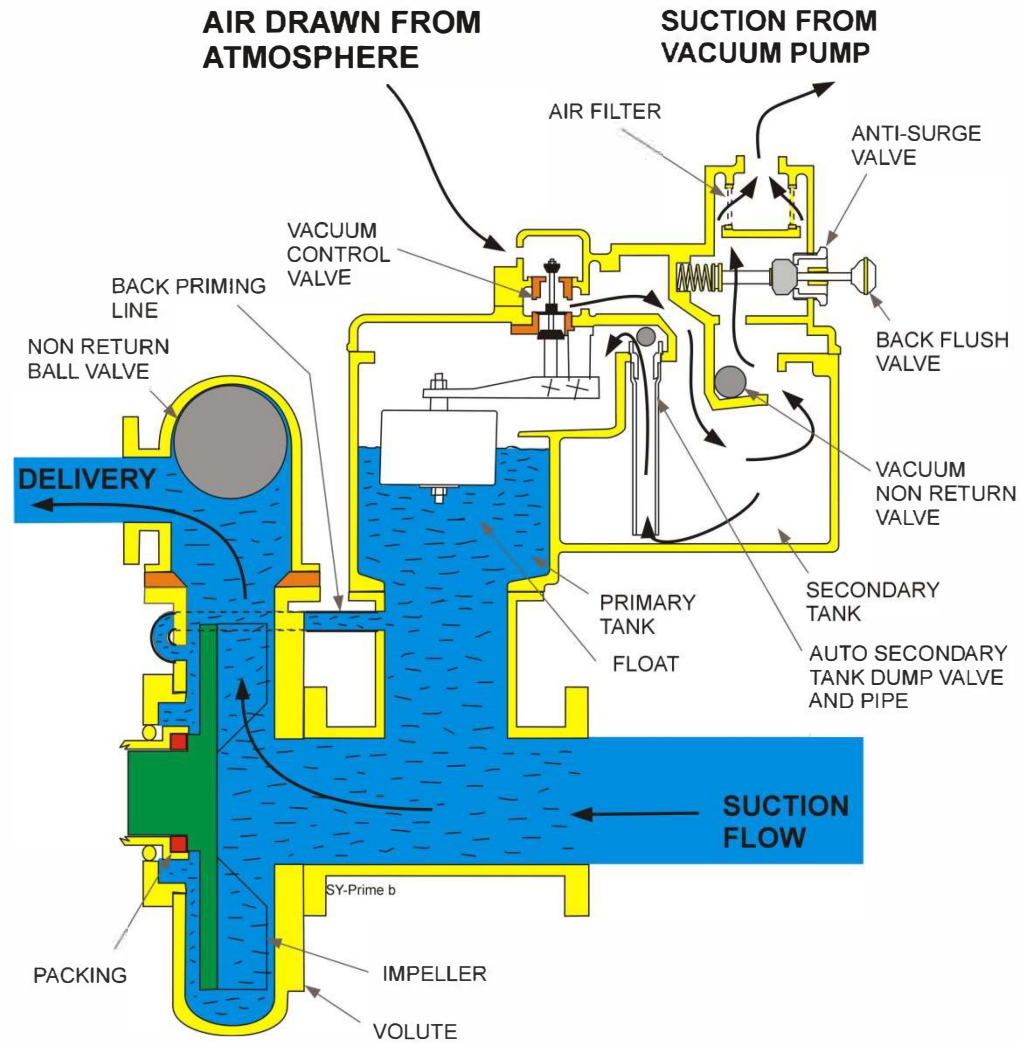
VACUUM PUMP & COALESCER



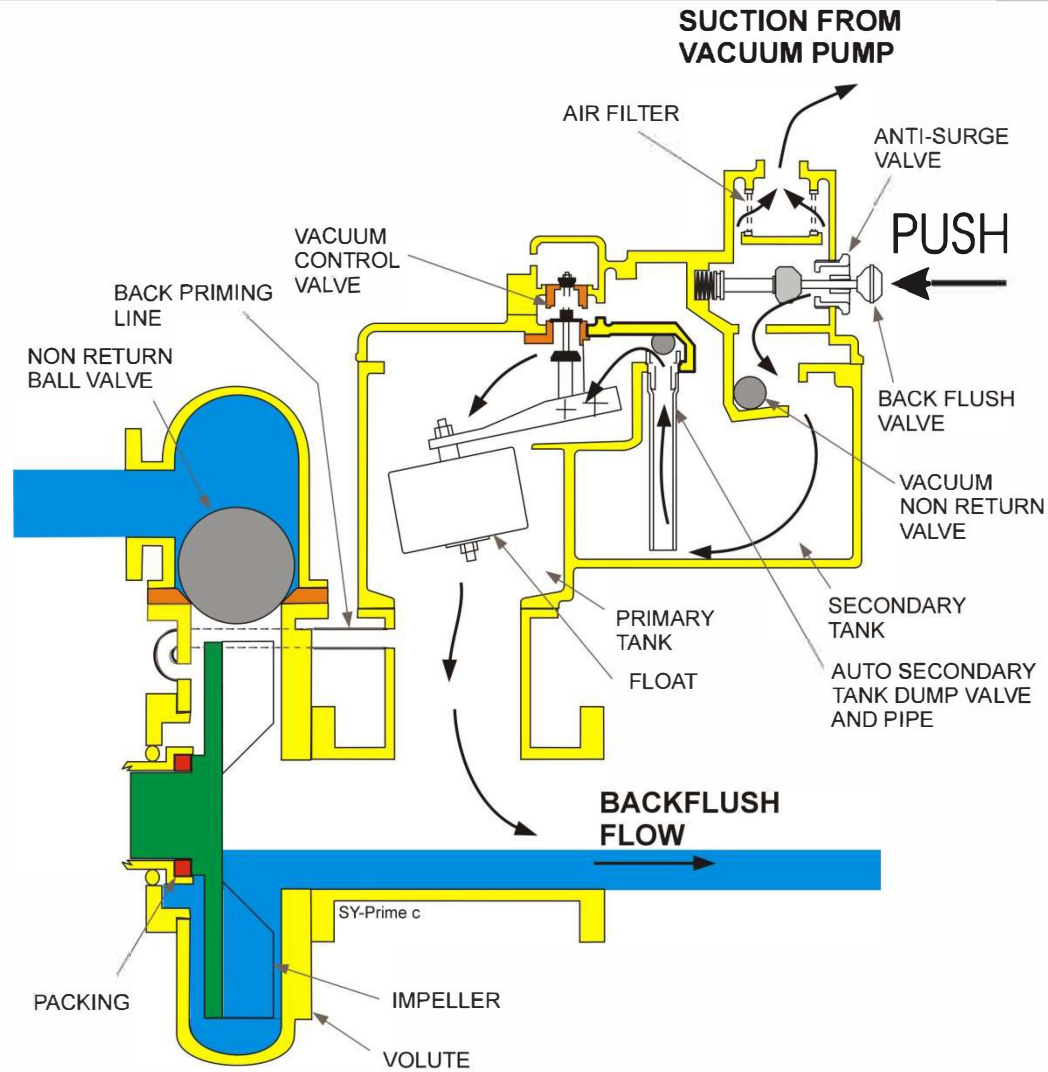
VACUUM PUMP & COALESCER



ON INITIAL START - PRIMING



FULLY PRIMED & PUMPING



BACK FLUSH OPERATION



Thank You !

Pumping Solutions

