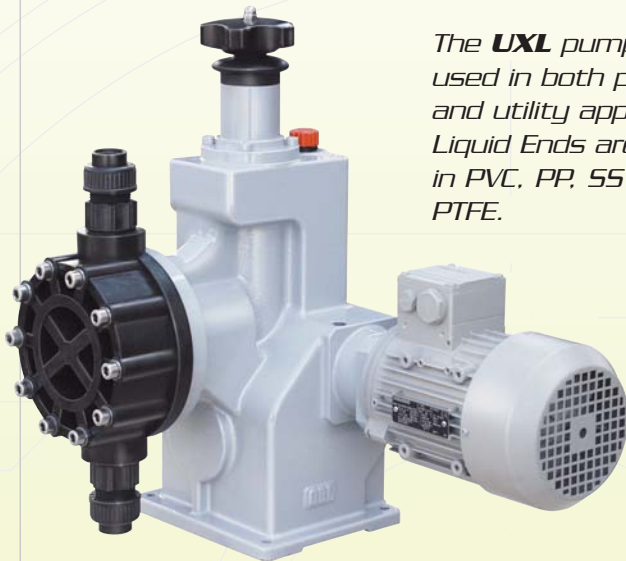


## ↓ HYDRAULIC DIAPHRAGM NON-LOSS MOTION METERING PUMPS

HYDRAULICALLY ACTUATED DIAPHRAGM PUMP WITH CAST IRON MONOBLOC CONSTRUCTION. **UXL** series pumps are hydraulic diaphragm non-loss motion design metering pump with micrometer stroke length adjustment. Flow adjustment is accomplished through controlled bypass of the hydraulic oil. This design incorporates a built-in pressure relief valve, mechanically actuated oil replenishing system, and meets **API 675** Standards.  $\pm 1\%$  accuracy within 10 to 100% of nominal flow rate.

## ↓ TECHNICAL DATA

Model	SPM	GPH	(L/h)	Maximum Working Pressure		Connections				NPSHr Feet W.C.	Motor HP
						Threaded		Flanged			
				PSI	(BAR)	PP, PP11, PP22, MA, MMA	MP, MMP, MS, MMS	PP, PP11, PP22, MA, MMA	MP, MMP, MS, MMS		
<b>60 Hz</b>											
UXL 15.50	48	20	(75)	175	(12)	1/2" NPT	-	1/2" 150#	1/2" 150#	26.2	1/2
UXL 25.50	48	33	(125)	175	(12)	1/2" NPT	-	1/2" 150#	1/2" 150#	19.6	1/2
UXL 25.50	72	49	(185)	175	(12)	1/2" NPT	-	3/4" 150#	3/4" 150#	19.6	1
UXL 25.50	96	68	(257)	175	(12)	3/4" NPT	-	3/4" 150#	1" 150#	22.9	1
UXL 25.50	121	82.4	(311)	175	(12)	3/4" NPT	-	3/4" 150#	1" 150#	22.9	1
UXL 25.50	144	101.4	(383)	160	(11)	1" NPT	-	1" 150#	1" 150#	26.2	1
UXL 25.50	168	117.3	(444)	150	(10)	1" NPT	-	1" 150#	1" 150#	29.5	1



The **UXL** pump can be used in both process and utility applications. Liquid Ends are available in PVC, PP, SS and PTFE.

■ With single diaphragm systems the diaphragm is held independently of the pump head so that when the head is dismantled the diaphragm is retained in the body and no oil is lost. This significantly improves the ease of maintenance.

■ Double Diaphragms available with breakage indication

■ Maintenance is reduced to a minimum. The plunger operates in a oil bath, without packing, and maintains volumetric efficiency even after **50,000** working hours. The diaphragm is protected by the built-in pressure relief valve and the mechanically actuated oil-replenishing system. The diaphragm has a working life in excess of **50,000** hours.

■  $\pm 1\%$  accuracy within 10 to 100% of the nominal flow rate.

## UXL

Max. Flow Rate: **117.3 GPH**  
 Working Pressure: **175 PSI**  
 Motors: **56C, 143TC, 145TC NEMA Frame, 1/2 HP & 1 HP**

### MULTIPLE PUMP UNITS

■ **UXL** metering pumps can be built as multiple units. Up to 6 heads

■ Each liquid end in the multiple unit can have different stroke rates, separate stroke adjustments, adjustable either while stationary or while running, and all driven by a single motor.



### PUMP HEAD MATERIALS OF CONSTRUCTION

PARTS	PP	PP11	PP22	MA/MMA	MP/MMP	MS/MMS
LIQUID END	6FRPP	6FRPP	6FRPP	316L SS	PVC	PVDF
DIAPHRAGM	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
VALVE SEAT	PVC	316L SS	INCOLOY 825	316L SS	PVC	PVDF
VALVE BALL	PYREX	316L SS	CARPENTER 20	316L SS	PYREX	PYREX
VALVE HOUSING	PP	PP	PP	316L SS	PVC	PVDF
VALVE SEAL	FKM	FKM	FKM	FKM	FKM	FKM

**HYDRAULIC DIAPHRAGM NON-LOSS MOTION METERING PUMPS**

**U XLB** series pumps are hydraulically actuated diaphragm positive displacement pumps suitable for process applications. They have a heavy duty assembly for **higher pressures**, up to **365 psi**. Available with 316LSS or PVDF liquid ends and meets API 675 standards.

**TECHNICAL DATA**

Model	SPM	GPH	(L/h)	Maximum Working Pressure				Connections				NPSHr Feet W.C.		Motor HP			
				PSI (BAR)		Threaded		Flanged		SS	PVDF	SS	PVDF	SS	PVDF		
				SS	PVDF	SS	PVDF	SS	PVDF								
<b>60 Hz</b>																	
<b>U XLB 15.50</b>	48	<b>20</b>	<b>(75)</b>	365	(25)	220	(15)	1/2" NPT	N/A	1/2" 300#	1/2" 150#	26.2	22.9	1	1		
<b>U XLB 25.50</b>	48	<b>33</b>	<b>(125)</b>	365	(25)	220	(15)	1/2" NPT	N/A	1/2" 300#	1/2" 150#	19.6	19.6	1	1		
<b>U XLB 25.50</b>	72	<b>49</b>	<b>(185)</b>	365	(25)	220	(15)	1/2" NPT	N/A	3/4" 300#	3/4" 150#	19.6	19.6	2	1		
<b>U XLB 25.50</b>	96	<b>68</b>	<b>(257)</b>	365	(25)	220	(15)	3/4" NPT	N/A	3/4" 300#	1" 150#	22.9	22.9	2	1		
<b>U XLB 25.50</b>	121	<b>82.4</b>	<b>(311)</b>	365	(25)	220	(15)	3/4" NPT	N/A	3/4" 300#	1" 150#	22.9	26.2	2	2		
<b>U XLB 25.50</b>	144	<b>101.4</b>	<b>(383)</b>	295	(20)	220	(15)	1" NPT	N/A	1" 300#	1" 150#	26.2	26.2	2	2		
<b>U XLB 25.50</b>	168	<b>117.3</b>	<b>(444)</b>	235	(16)	220	(15)	1" NPT	N/A	1" 300#	1" 150#	29.5	29.5	2	2		

**CONSTRUCTION CHARACTERISTICS**

- The hydraulic system with its mechanically actuated oil replenishing (smart diaphragm) system overcomes many common suction and discharge problems.
- Hydraulic diaphragm positive displacement pump (API 675 STD) for continuous operation and high safety (leak-free head) with Cast Iron monobloc construction.
- Smooth and linear adjustment, whether stationary or running. Stroke adjustment is made by use of a handwheel with 0-100% display.
- ± 1% accuracy within 10 to 100% of the nominal flow rate.
- Double diaphragms available with breakage indication.

Max flow rate : 117.3 gph per head  
 Working pressure: 365 PSI  
 Stroke Length : 15mm & 25mm  
 Motor: 1 & 2 HP, 1750 rpm  
 Motor Frame: NEMA 56C, 143C & 145TC  
 Pump: single-multiple heads  
 Housing: Cast Iron



**MANUAL ADJUSTMENT**

- Micrometer control reading 0 -100%, in 0.1% graduations.
- Sealed magnifying lens indicator.



**MULTIPLE PUMP UNITS**

- U XLB metering pumps can be built as multiple units. Up to 6 heads.
- Each pump, in a multiple unit, can have a separate stroke adjustment, adjustable either stationary or while running.
- Each pump head can have a separate stroke rate since each has its own reduction gear.
- A multiple unit is driven by a single motor.



**PUMP HEAD MATERIALS OF CONSTRUCTION**

PARTS	MA-MMA	MS-MMS
LIQUID END	316L SS	PVDF
VALVE SEAT	316L SS	PVDF
VALVE BALL	316L SS	PYREX
VALVE SEAL	FKM	FKM
DIAPHRAGM	PTFE	PTFE