



"X" Hazardous-Duty

- No Valves to clog, hang up or service.
- One Moving Part - Piston.
- Drift-Free accuracy better than ± 1 %.
- **Class I, Group D for QSYX2**
- **Class I, Group D; Class II, Group E, F, G for QDX**



QSYX2

Synchronous Class I, Group D

Dimensions:

10 1/4" x 6 3/4" x 6" wide
(260 x 171 x 152mm)

Shipping weight:

27 lb (12.15 kg)

Electrical:

230 VAC, 50/60 Hz, 1Ø, 0.4 amps, 60/72 spm, totally enclosed, ball bearing, with 3 #18 leads 12" long which exit through 1/2" straight pipe-tap hole for conduit. UL listed motor. Class I, Group D



QDX

The **QDX** High Flow Hazardous-Duty Class I, Group D; Class II, Group E, F, G

Dimensions:

17 3/4" x 6 7/8" x 8 1/2" wide
(451 x 175 x 216mm)

Shipping weight:

43 lb (19.35 kg)

Electrical:

115/230 VAC, 60 Hz, 1Ø, 1/3 hp, ball bearing UL listed motor, 1725 spm, pigtail leads for conduit connection. Motor is totally enclosed fan cooled. 6.6 amps @ 115 VAC and 3.3 amps @ 230 VAC.

Drive + Pump Head = Complete Pump
 Example: QSYX2 + Q1CKC =

QSYX PDM (PUMP DRIVE MODULE)

MAX. Flow/Pressure				PDM	Piston Code	Drive Price
ML/MIN	PSIG	BAR	ML/MIN			
1.8	.03				RH00	
3.60	.06	100	6.90		RH0	
5.76	.09			QSYX2	Q0	
7.20	.11				RH1	
23.0	.36				Q1	
51.8	.82				Q2	
92.1	1.44	25	1.72		Q3	

QDX PDM (PUMP DRIVE MODULE)

MAX. Flow/Pressure			PDM	Piston Code	Drive Price
ML/MIN	PSIG	BAR			
43.13				RH00	
86.25	100	6.90	QDX	RH0	
138				Q0	
172.50				RH1	
552*				Q1	
1242*				Q2	
2208*	25	1.72		Q3	

*See Page 3 for General Specification

PHM (PUMP HEAD MODULE)

Piston Size Code	Materials of Construction								
	CKC	CKY	CSC	CSY	SAN	SKY	SSY	STY	CTC
RH00									
RH0									
RH1									
Q0									
Q1									
Q2									
Q3									
Wetted Parts	Ceramic PVDF	Ceramic PVDF Carbon	Ceramic 316 SS	Ceramic 316 SS Carbon	Ceramic Teflon	316 SS PVDF Carbon	316 SS Carbon	316 SS Tefzel Carbon	Ceramic Tefzel
MAX.Temp	212° F	212° F	350° F	350° F	350° F	140° F	140° F	140° F	212° F
Options	(add Option Code & cost to Pump Module for complete price and part number)								
LF (pg.27)	N/C	N/C				N/C		N/C	N/C
W (pg.26)									
WT (pg.26)									
TC (pg.26)									
R479 (Pg.28)									
S ("Q" Only)									

*See page 4 "Pump Head Materials Configuration" for additional information.

**Q1 & Q2 = \$30 / Q3 = \$40

Drive Options

Dial Indicator (pg. 28)
 Part Number: -Q485
 Price:



Synchronous Pumps "RHSY"

The Ultimate in Low Flow Metering Accuracy



- Drift-Free accuracy better than $\pm 1\%$ independent of load variations or fluctuations in line voltage.
- Compact design "RH" pump with synchronous motor assembly.
- Micrometer-like fine adjustment using an easy grip flow control ring graduated in 450 divisions.
- Choice of 150, 300, and 600 strokes per minute through a simple and safe belt change arrangement.
- Forward-Off-Reverse switch for instant flow direction control.
- Available with low dead volume pump head and low flow tubing kit.



RHSY

Dimensions:
5" x 5" x 4" wide
(127 x 127 x 102 mm)

Shipping weight:
4 lb (1.8kg)

Electrical:
115 VAC, 60 Hz, 1 ϕ , .08 amps,
with 3 prong power cord - UL, CE.

RHSY Pumps

MAX. Flow/Pressure			Complete Pump Assembly	Wetted Parts	MAX. Temp	Price
@150 SPM ml/min	@300 SPM ml/min	@600 SPM ml/min				
3.75	7.5	15	RHSY00SKY	316 SS / PVDF / Carbon	140° F	
7.5	15	30	RHSY0CKC	Ceramic / PVDF	212° F	
15	30	60	RHSY1CKC			

Drive Options
230 VAC (50Hz., .04 amp) *
Part Number: -2
Price:

*Flow Rates are reduced approximately 18% when Pump Drive Module is operating on a 50 Hz electrical supply.

Synchronous Pumps "QSY"

Preparative chromatography Standard

- Provides exceptional stroke rate accuracy better than $\pm 1\%$ independent of load variations or fluctuations in line voltage.
- Convenient multi-position tilt stand for wall or counter mounting.
- Dial Indicator Kit available for ultra-precise adjustment of flow settings.
- Hazardous-duty models available.
- Pulse Dampener available (see page 28)



QSY

Dimensions:
10 1/2" x 4 3/4" x 5 3/8" wide
(267 x 121 x 137 mm)

Shipping weight:
10 lb (4.5kg)

Electrical:
115 VAC, 60 Hz, 1 ϕ , 0.4 amps,
totally enclosed, ball bearing,
with 3 prong power cord - UL, CE.

Drive + Pump Head = Complete Pump
Example: QSY + Q1CKC =

QSY PDM (PUMP DRIVE MODULE)

MAX. Flow/Pressure				PDM	Piston Code	Drive Price
ML/MIN	GAL/HR	PSIG	BAR			
1.8	.03				RH00	
3.60	.06				RH0	
5.76	.09				Q0	
7.20	.11	100	6.90	QSY	RH1	
23.0	.36				Q1	
51.8	.81				Q2	
92.1	1.44	25	1.72		Q3	



Drive Options
Dial Indicator (pg. 28) Part Number: - Q485 Price:
Mounting Base Part Number: -MB Price:
X-Proof (pg.18) Part Number: QSYX2 Price:

