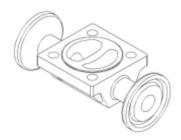
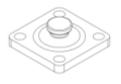


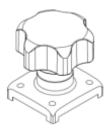


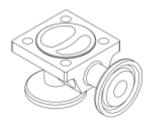
When you want it done right and on time ... the first time!

Aquasyn California LLC Tel (818) 350-0423 Fax (818) 350-0424 E-mail: sales@aquasyn.com www.aquasyn.com











### **Table of Contents**

The Aquasyn Difference	3
Biotech Series Valves	4
Micro-Bio Series Valves	4
Two-Way Valves	5
Manual Bonnets	6
Pneumatic Actuators	7
Sterile Access and GMP Combinations	8
Zero Static Tee Valves	9
Points of Use	9
Sample Bottle Assembly	10
Valbow <sup>®</sup>	10
Instrumentation Valves	11
Multi Valve Combinations	12
Custom Valve Design	12
Diaphragms	13
Drain Angels	14
Flow Co-Efficients	14
Design and Productions Capabilities	15
Ordering Information	16-17
Fabrication Selection Chart	18
Terms & Conditions	19

# **Aquasyn California LLC**

### A New Standard in High Purity Diaphragm Valves

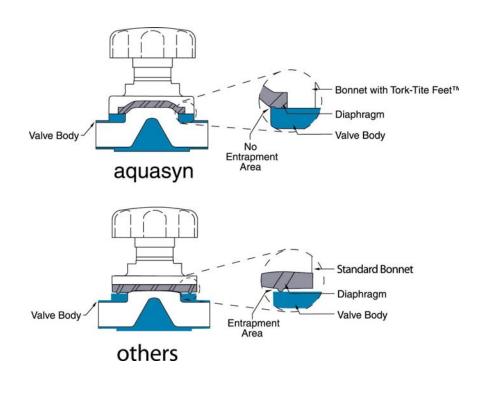
Since it's inception in 1996, Aquasyn's goal has been to break new ground, not retrace the steps of others. Our extensive process engineering and manufacturing experience has enabled us to provide the dynamic biotech and pharmaceutical markets with standard, as well as customized, valves and associated components which are highly innovative and of uncompromising quality.



A quasyn does not just offer an industrial diaphragm valve that has been converted to meet industry requirements, but products which are conceived and executed specifically to meet the needs of the bio-pharmaceutical industry. Our proprietary bonnet design, Ultraz<sup>®</sup> high performance diaphragm, the Valbow<sup>®</sup> and Sample Bottle Assembly are just a few of the many standard products developed by Aquasyn to resolve unique process problems.

We are committed to accommodate your ideas like no other high purity valve company can. It's no wonder our customers consist of the biggest names in the industry.

# The Aquasyn Difference



### Tork-Tite<sup>®</sup> Feet

Most diaphragm valve manufacturers locate the principle seal on the diaphragm itself, away from the process stream, creating a ledge that can result in the entrapment of process fluids. Aquasyn machines the sealing ring on the valve body at the intersection of the flow chamber, leaving fewer places for process fluids to remain during cleaning. Additionally, our patented Tork-Tite<sup>®</sup> feet at the bonnet corners hold the diaphragm in a fixed position, with controlled compression. A zero leakage seal is achieved while preventing extrusion of the diaphragm into the flow chamber. These unique features provide the benefits of minimal entrapment potential, consistent, repeatable flow characteristics and extended diaphragm life.

# **Biotech Valves**

### **Applications**

A quasyn small frame Biotech valves utilize a common valve body for 1/4", 3/8" and 1/2" nominal sizes. They effectively provide a compact alternative to full sized valves on bioreactors, filtration and chromatography skids, freeze-thaw and other systems where available space is at a premium, with no sacrifice in performance. Our fractional sized valves also share all of the same features as our standard sized valves.



#### **Unique Options**

Custom built hybrid valves and assembly fabrications incorporating fractional valves are just one of Aquasyn's areas of expertise. No other company can match the footprint, execution and quality of Aquasyn products in this very specialized area.











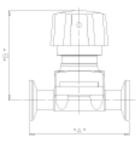
# **Micro-Bio Series Valves**

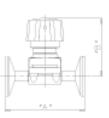
### **Ultra Compact Performance**

Recent developments in tangential flow filtration systems, small-scale bioreactors, chromatography skids and lowflow sampling applications have brought about numerous requests for smaller valve sizes. As part of our ongoing commitment to provide the industry with application specific, state-of-the-art products, Aquasyn has introduced the Micro-Bio series valve. Roughly the size of an egg this valve is 40% smaller than our standard Biotech series valves.

As with our Biotech series valves, the Micro-Bio utilizes a common sized body but offer the added advantage of miniature 1/8", 3/16" and 1/4" nominal diameters. The Micro-Bio also shares the same inherent quality and features of our other valves, such as Tork-Tite<sup>®</sup> feet, integral sealing ridge on the body, a wide variety of materials of construction, surface finishes, end connections and other options.







Valve Type	"A"	"B"
Biotech Series	2.50"	2.25"
Micro-Bio Series	2.00"	1.44"

# **Two-Way Valves**

#### **An Industry Standard**

The standard Aquasyn two-way valve is available in sizes ¼" to 6" and can be supplied in any number of configurations with options involving body type, diaphragm type, end connections and surface finish. Whether combined with our manual bonnets featuring smooth operating high temperature plastic handwheels or our pneumatic actuators, Aquasyn's innovative design capabilities set us apart.

Please see ordering information on page 16 for a range of options or contact us with any special requirements you may have.



# **Features**

- BPE Compliant machined bar stock bodies with controlled Sulfur (0.005-0.010%) Ferrite < 0.5%
- Integral valve body sealing ridge prevents excessive entrapment of process media
- Sizes from 1/4" to 6" provide process application flexibility
- Exterior body surfaces radiused and sloped promote cleanability by wash-down or COP methods
- Fully traceable bodies insure ease of validation/documentation
- Drain angle marks etched on end connections insure self-draining alignment
- Surface finishes available from 25Ra to 5Ra, mechanical and electropolished
- Exotic materials including Hastelloy<sup>1</sup> AL6XN<sup>2</sup> and Titanium available upon request
- Hygienic clamp, butt weld, orbital weld and special end connections available

<sup>1</sup>Hastelloy is a trademark of Haynes Internationa <sup>2</sup>AL6XN is a trademark of Allegheny Ludlun



### Quality

Our two-way weir type diaphragm valves feature robust construction, precision machining and state of the art surface finishes, with ASME-BPE compliant chemistry.

#### Machining

All of Aquasyn's two-way and special configuration valve bodies are machined from 316L austenitic stainless steel bar stock. No castings are used whatsoever.

### Traceability

A quasyn valves are fully traceable with Material Test Reports (MTRs) and Heat Numbers provided as standard procedure.



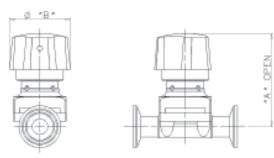
Please ask us how our extensive custom design and fabrication capabilities can assist you in providing unique solutions for your process requirements.

# **Manual Bonnet Assemblies**



#### **Trouble Free**

A quasyn bonnets are designed and manufactured from stainless steel to provide long, trouble free service. All internal parts are machined to exacting tolerances for smooth and consistently reliable operation. Our patented Tork-Tite<sup>®</sup> feet on the bonnet corners and compressors, which are precisely machined and finished to match the profile of the weir on the valve body, insure a fixed diaphragm position to provide consistent zero leakage closure and repeatable flow control characteristics.



#### **Dimensions**

Size	"A"	Ø "B"
1/4" - 1/2"	2.25"	1.25"
3/"	3.00"	2.00"
1"	4.25"	3.20"
1½"	5.63"	4.20"
2"	7.00"	5.00"

### **Features**

- Readliy cleanable exterior
- Fully autoclavable
- Patented Tork-Tite<sup>®</sup> feet provide consistent fixed diaphragm position
- Stainless steel internals
- Ergonomic performance plastic handwheel
- Fully formed compressor exactly matches weir profile for tight shut-off, smooth operation
- Custom bonnet options include: O-ring sealed, COP service, submersible and other specials
- Special stem threading options available for manual flow control
- Fixed internal travel stops
- · Adjustable travel stop available

# **Submersible Bonnet**

The Aquasyn patent-pending submersible bonnet assembly has been developed to meet the needs of recent developments in biopharm cleaning protocols. Designed to provide trouble free performance in demanding COP applications, these bonnets are fully drainable, autoclaveable, and incorporate a nongalling performance plastic stem. Available in size ¼" through 2", the bonnet provides a compact, lightweight solution to complement Aquasyn's range of diaphragm valves.



Performance Plastic Stem

# **Pneumatic Valve Actuation**



### **Features**

- Compact lightweight design
- · Choice of spring return or double acting operation
- · Selected limit switch options available
- Banjo mount solenoid options available
- NAMUR adaptor available
- High cycle life
- · Integral controlled travel stop



#### Performance

As with other Aquasyn components, our pneumatic actuators provide design and construction which meet or exceed industry standards. The actuators feature lightweight performance plastic housings, precision stainless internals, and O-rings machined and molded to tight tolerances. Only high quality materials are used for long, trouble free performance.

#### Control

ike our manuall bonnets, all actuated bonnets feature our patented Tork-Tite<sup>®</sup> feet and cover a complete range of automation requirements from basic on/off service to fine modulating control.



#### **Positioner**

he positioner serves to position pneumatically actuated diaphragm valves. The positioner is an electropneumatic position controller for the pneumatically actuated

continuous diaphragm valve. The device includes the following main function groups: a feedback/positional transducer, an electropnuematic system and a microprocessor electronic system. The feedback/positional transducer measures the actual position of the continuous valve. The microprocessor electronic system continuously compares the actual position (actual valve) with a desired position value that was preset via the standard signal input and supplies the result to the position controller. If an error exists, the electropneumatic system causes the actual position to be appropriately corrected.



**Stroke Limiter** 



Electrical Position Feedback



Intrinsically Safe Control On/Off Head



Electrical Feedback Switch



Manual Override

# **Sterile Access/GMP Combinations**

### Capabilities

A quasyn has the unique capability to craft Sterile Access valves with any conceivable valve-to-valve or valveto-fitting configuration within the industry, in both traditional valve-to-valve or block body styles. Our component stocking system, coupled with specially dedicated machining and polishing, also offers the added benefit of extremely fast lead times. Our fabrication, welding and polishing exhibit inherent quality to meet and exceed industry standards for drainability, minimal dead legs, surface finish and performance

### **Specials**

N o other high purity diaphragm valve company can deliver the quality and quantity of specialty products like Aquasyn can. Please call us with any special requirements that you may have, especially when you needed them yesterday!

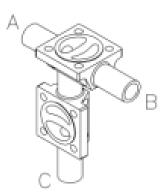


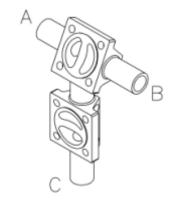
### **Features**

- Minimized dead legs
- Maximum drainability
- · Configured to specific system layout
- Selection sheet available
- Stocked components enable "made-to-order" assemblies
- Short lead times



For complete ordering information and selection chart, please see page 17-18





# **Zero Static Tee Bodies**

#### Innovation

diverting flow.

A quasyn Zero Static block body tee valves are the premiere product of their kind in the industry. Our true Zero Static design offers the smallest footprint to facilitate installation within complicated piping geometries and is the lightest weight of any similar style body. And they can be customized into a variety

**Points of Use** 

of configurations, including sampling or



### **Features**

Minimized footprint

- Compact centerline dimensions
- Readily cleanable exterior, all surfaces sloped and radiused
- True Zero Static design
- Low pressure drop, high flow co-efficient (Cv) insures optimum performance
- · Integrated sampling valves and other custom options available



### **Features**

True Zero Static design

- Fully machined from block
- Ergonomic design
- Completely drainable
- · Readily cleanable exterior, all surfaces sloped and radiused
- · Industry's smallest footprint and lightest weight
- Integrated sampling valves and other custom options available
- Stocked components enable "made-to-order" assemblies in very short lead times.

#### Compact

S tate of the art block body design, coupled with the tighest bend radii in the industry allow Aquasyn point of use valves to be easily integrated into areas where space is at a premium.

Our design provides minimal pressure drop and superior system performance. We can deliver customized and standard point of use valves on a fast track basis.



#### Phone (818) 350-0423 • Fax (818) 350-0424 • E-mail: sales@aquasyn.com

# **Sample Bottle Assembly**



### One of a Kind

A quasyn's unique sample bottle assembly with an integrated Valbow<sup>®</sup> solves a number of process problems and has become an industry standard. It is designed for those that prefer a reusable component over one that is disposable.

Sample bottles can be provided with any number of options including different bottle sizes, color coded caps, and unusual Valbow<sup>®</sup> sample valve configurations.

Unlike other designs, Aquasyn also offers inspection and refurbishment servcies for our sample bottle assemblies.

# **Features**

- Bottle sizes from 50ml to 1000ml
- Color coded caps
- Fully autoclavable
- Custom designs available
- Inventory of stocked product
- Industry standard acceptance
- Lightweight design

# **Valbow**®

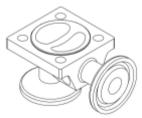


### **Features**

- Unique problem solving design, unlike any other in the industry
- 90 degree angle pattern for directional changes
- Minimal hold up volume
- Sampling capability
- Hygienic clamp, orbital weld, end cap and other connections available
- Custom designs and other special options available

### **Unique Products**

The Valbow<sup>®</sup> was created some years ago as a solution to one of our customer's unique problems. It has evolved into a popular Aquasyn product and is stocked in a variety of sizes. The Valbow<sup>®</sup> is uniquely suited for that one spot where nothing else will do. Whether it's a hard to reach sample valve on an R/O system, or for a directional change valve on a Bioreactor, valbows just seem to come in handy.



# **Instrumentation Valves**

### Flexibility

A quasyn's patent-pending instrumentation valve has been designed to consoldiate both a valve and pressure transducer in one unit and take advantage of minimally available space by utilizing a hybrid block body concept in conjunction with Anderson Instruments' unique CPM fitting as a base for the transducer.

The result is a very compact valve/instrument combination which takes up little more space than a single traditional diaphragm valve, as well as eliminating the need for an instrument tee. The instrument's diaphragm is positioned to one side of the valve weir to put it in direct contact with the flow of process media, and providing the advantage of eliminating the usual deadleg concerns encountered with insturment tees. The CPM fitting allows a positive, leak-proof means of instrument attachment through the use of an o-ring behind the diaphragm of the transducer and specially designed clamp arrangement.

he design is not limited to pressure measurement. It can also incorporate the following instruments:

pH DO ORP Conductivity UV/Absorbance Turbidity



### **Features**

- · Self draining, compact hybrid block body design
- Eliminates need for instrument tees and deadleg concerns
- BPE compliant bar stock bodies with controlled sulfur content .005-.010%
- Available in 1" and 11/2" sizes
- Manual or actuated operation
- Exotic materials, choice of end connections and diaphragms available
- Optional Endress+Hauser transducer design available

# **Multi Valve Combinations**

### Flexibility

Multi combination diverter style diaphragm valves have become a cost effective solution to overcrowding in complex piping layouts. Our customers want the same quality diverter valve they have come to expect from Aquasyn's other products.



Where can provide 3, 4, and 5 way diverters, for both horizontal and vertical placement. Aquasyn's actuated and manual valves offer maximum drainability and process flexibility.



### **Features**

- Machined block construction
- Compact solutions to overcome crowded multiple valve combinations
- Decreased dead legs to remedy complex drainage problems
- Less system welds
- Optimum drainability
- Quick and effective sterilization



# **Unique Applications**

- Special end connections, configurations and material
- · Innovative designs assist in providing application specific process solutions
- · Sole source responsibility from concept through production
- CAE design in state of the art 3-D formats in NX-Ideas, SolidWorks & AutoCAD
- · Fully detailed drawings for review and approval
- Rapid customer turnaround with concepts, drawings and production
- Exotic materials a specialty
- Expert fabrication, welding, and polishing by skilled craftsmen
- Advanced machining capabilities optimize manufacture of complex assemblies

# **Custom Valve Design**

### **Exceptional Capabilities**

Customized and hybrid valve assemblies for unusual applications have been Aquasyn's forte since its inception. We don't think anyone does it quite as well. Call us when you need it done right and on time the first

time.



# Diaphragms



### **Features**

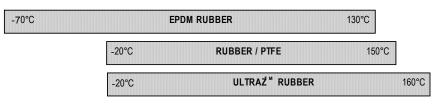
#### Full traceability

- · Certificates of conformance supplied with all diaphragms
- · Molded in the open position for long service life
- Material options include
- EPDM
- Fluoropolymer faced (TFM 1700)/EPDM
- Silicone
- Black Ultraz<sup>®</sup> Fluoroelastomer
  White Ultraz<sup>®</sup> Fluoroelastomer
- Viton
- All Aquasyn diaphragms conform to USP Class VI specifications
- Aquasyn Ultraz<sup>®</sup> diaphragms conform to USP Class VI, ASME-BPE and FDA Title 21, CFR Part 177 indirect food additives, polymers section 177.2600- Rubber articles intended for repeated use and has passed the CFR 21 177.2600 extractables test

#### **Precision Materials**

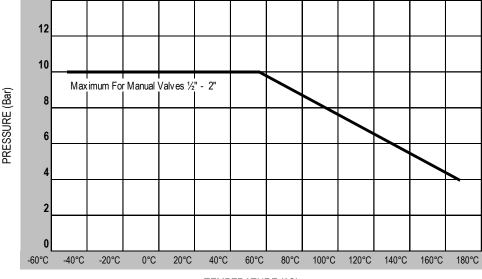
quasyn's diaphragms are unlike others in the any biopharmaceutical industry. Our diaphragms are precision molded to tight tolerances for superior service life and crafted of approved materials which will not sacrifice the purity of the most sensitive of processes

#### **Diaphragm Temperature Range**



These temperature ranges are for guidance only under static conditions.

#### Valve Body Temperature/Pressure Relationship



#### TEMPERATURE (°C)

Maximum Rating Wor	king Pres	sure (Bar)	For Manua	ally Oper	rated Va	lves

Valve Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/2"	2"
Pressure (Bar)	10	10	10	10	10	10	10

It is essential with any valve selection to provide accurate process and operating details.

#### Certification

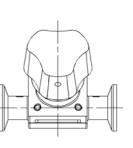
Il Aquasyn diaphragms are fully traceable and are manufactured of USP and/or FDA compliant materials. Certificates of Conformance and lot traceable information are supplied as standard procedure



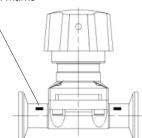
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# **Optimum Self Drain Angles**

Valve Size	Self Drain Angle
1/4"	41°
3/8"	30°
1/2"	25°
3/4"	18°
1"	30°
11⁄2"	25°
2"	23°



Drain angle Etched drain marks

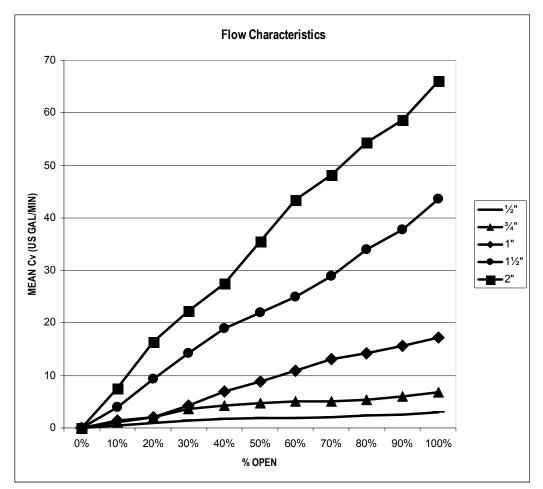


# Flow Co-Efficients (Cv Data)

### 2-Way Valves

					% Op	en Cv	Value				
Valve Size	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1/2"	0	0.5	1	1.4	1.7	1.9	1.9	2	2.3	2.6	3
3/4"	0	1.1	2	3.7	4.3	4.8	5	5	5.4	6	6.8
1"	0	1.4	2.1	4.3	6.9	8.8	10.9	13.1	14.2	15.6	17.3
1½"	0	4	9.3	14.2	18.9	22	25	28.9	34	37.8	43.6
2"	0	7.6	16.5	22.3	27.5	35.6	43.5	48.2	54.3	58.6	66

Tolerance +/- 10% Cv Units - US gallons/minute

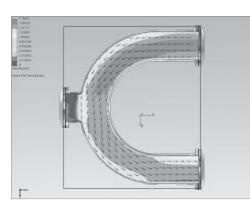


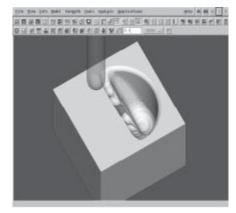
# **Design and Production Cabability**

# **Design Capabilities**

#### • High end CAE design

- NX-Ideas, Solidworks & AutoCAD
- CAD/CAM Software
- Computational Fluid Dynamics
- Shown here are some examples of Aquasyn's 3D Design capabilities







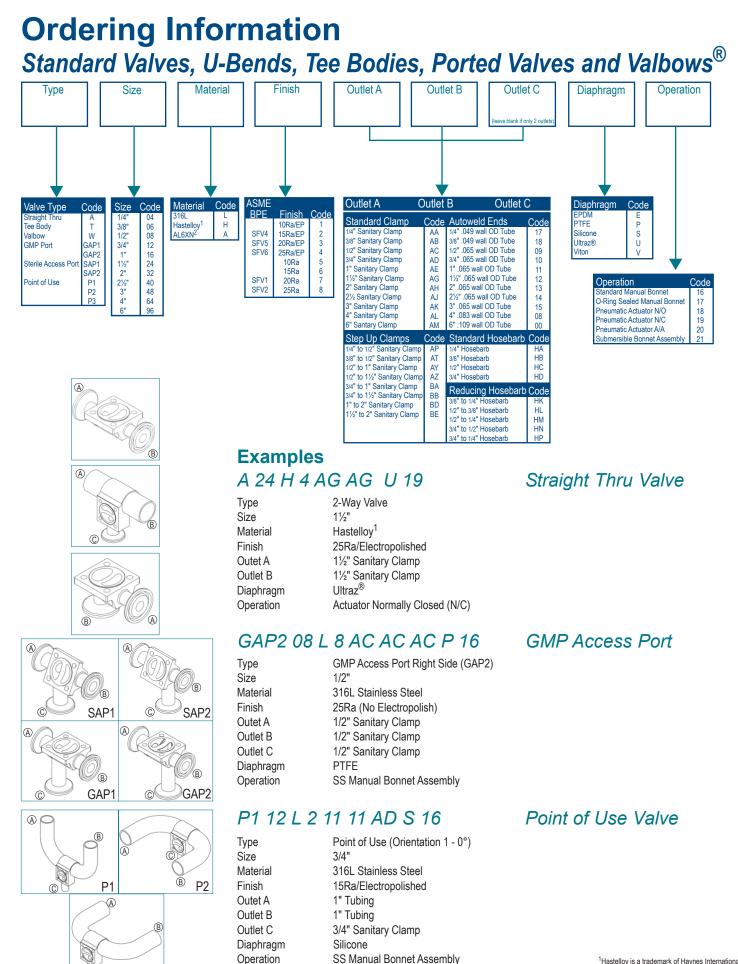
### **Production Features**

- Orbital welding
- Polishing & Electropolishing
- High Volume production capability
- State of the art 5-axis machining centers
- Aquasyn products are made in the USA, with your satisfaction
  as our ultimate goal







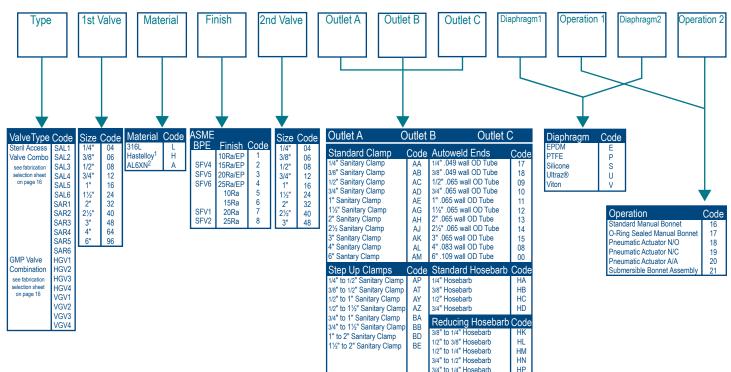


<sup>1</sup>Hastelloy is a trademark of Haynes International <sup>2</sup>AL6XN is a trademark of Allegheny Ludlum

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# **Ordering Information** Valve to Valve Combinations



#### SAL1 08 L 2 08 09 09 09 E 19 E 16 Sterile Access Valve to Valve Combination

- · · · ·				
Storilo	Annee	Valva	Left Side	(QAL1)
Sterlie	ALLESS	valve		IJALII

Туре	Sterile Access Valve Left Side (SA
1st Valve	1/2"
Material	316L Stainless Steel
Finish	15Ra/Electropolished
2nd Valve	1/2"
Outet A	1/2" Tubing
Outlet B	1/2" Tubing
Oulet C	1/2" Tubing
Diaphragm 1	EPDM
Operation 1	Actuator Normally Closed (N/C)
Diaphragm 2	EPDM
Operation 2	SS Manual Bonnet Assembly

#### HGV1 16 L 7 12 AE AE AD P 16 P 16 GMP Valve to Valve Combination

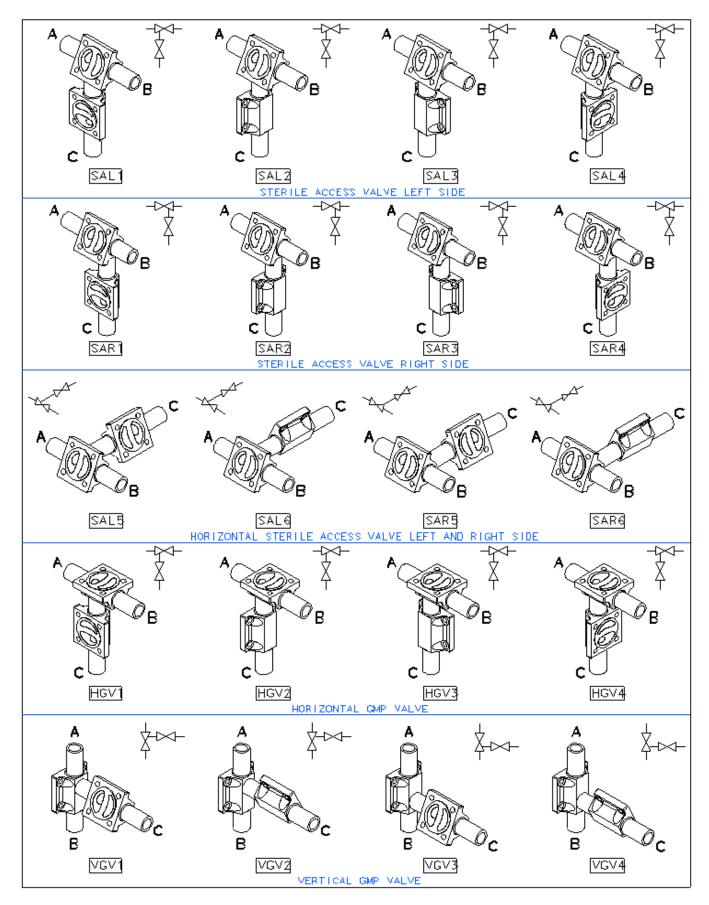
Туре 1st Valve Material Finish 2nd Valve Outet A Outlet B Oulet C Diaphragm 1 Operation 1 Diaphragm 2 **Operation 2** 

Туре

Horizontal GMP Valve (HGV1) 1" 316L Stainless Steel 20Ra (No Electropolish) 3/4" 1" Sanitary Clamp 1" Sanitary Clamp 3/4" Sanitary Clamp PTFE SS Manual Bonnet Assembly PTFE SS Manual Bonnet Assembly

> <sup>1</sup>Hastellov is a trademark of Havnes International <sup>2</sup>AL6XN is a trademark of Allegheny Ludlum

# **Selection Chart**



# **Terms and Conditions**

These Terms and Conditions shall constitute the sole and exclusive Agreement ("Agreement") in regard to the goods purchased by Purchaser from Aquasyn LLC, a Nevada limited liability company ("Aquasyn").

1. Purchaser is solely responsible for determining whether the goods ordered and purchased from Aquasyn are suitable for their intended application. Aquasyn makes no representation or warranty concerning the suitability of any goods for any particular project or application. Aquasyn has no control over the actual use of the goods purchased and, therefore, shall have no liability. Purchaser shall be solely responsible and assumes all risk of loss arising out of or relating to the use of the goods purchased. Purchaser shall be solely responsible for developing a maintenance schedule for the goods purchased. Any statements by Aquasyn or its employees, representatives, consultants or advisors are only general comments and shall not constitute recommendations, representations, warranties, binding agreements or anything that would cause Aquasyn to be liable for any reason.

2. All prices exclude excise, sales, use, G.S.T., or similar taxes, freight, other delivery expenses, insurance charges and duties, all of which shall be borne by Purchaser.

Any notice canceling or rescheduling any portion of a purchase order must be in writing and, unless such notice is received by Aquasyn at least fourteen (14) days prior to the scheduled shipment date, Purchaser shall be subject to Aquasyn's standard cancellation, rescheduling and restocking charges and policies in effect from time to time.

4. Shipment shall be F.O.B. at Aquasyn's warehouse in Los Angeles County, California. Purchaser assumes all risk of loss upon delivery of the goods by Aquasyn to Purchaser or its agents or shippers at Aquasyn's warehouse. Aquasyn reserves the right to make deliveries in installments. All such installments shall be separately invoiced and paid for when due without regard to subsequent deliveries. Delay in delivery of any installment shall not relieve Purchaser of its obligation to accept remaining deliveries. Purchaser shall have seven (7) days from the date of delivery within which to notify Aquasyn of any nonconforming goods, defective materials, workmanship or shortages in the goods delivered. No goods may be returned unless the Purchaser notifies Aquasyn within said seven (7) day time period and Aquasyn authorizes the return. All returned goods must be shipped freight prepaid by Purchaser. All shipping and restocking charges on any goods improperly rejected shall be paid by Purchaser.

5. On approved credit, Purchaser shall pay Aquasyn for all goods delivered to Purchaser within thirty (30) days of delivery by Aquasyn. In the absence of approved credit, all goods shall be paid for in cash on delivery in advance unless the Purchaser and Aquasyn expressly agree otherwise in writing. All references to money amounts herein, unless otherwise specified, shall be in United States currency. All payments shall be made in United States dollars at the closing rate of exchange for the United States dollar at the primary bank of Aquasyn on the day preceding the date on which payment is made to Aquasyn as required by this Agreement. Failure to make payment pursuant to the terms provided for herein shall constitute a default by Purchaser which shall give Aquasyn the right to elect to terminate its obligation to ship further goods to Purchaser or request adequate assurances from Purchaser. If Aquasyn requests adequate assurances from Purchaser, Aquasyn shall have the sole and absolute discretion as to whether such assurances, if any, are adequate. Aquasyn reserves the right to reject orders and withhold shipment in the event Purchaser's account is past due. Payments past due shall bear interest on the daily balance at the rate of one and one-half percent (1.5%) per month (18% APR) or the maximum rate permitted by law, whichever is lower.

6. DISCLAIMER AND LIMITATION OF LIABILITY. AQUASYN GRANTS NO WARRANTIES OR CONDITIONS, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, REGARDING THE GOODS, THEIR FITNESS FOR ANY PURPOSE, QUALITY OR MERCHANTABILITY ALL OF WHCH ARE HEREBY DISCLAIMED. AQUASYN SHALL NOT BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, PUNITIVE, INCIDENTAL OR INDIRECT DAMAGES, LOST PROFITS, THE COSTS OF PROCUREMENT OF SUBSTITUTE PRODUCTS OR SERVICES HOWEVER CAUSED, OR ON ANY THEORY OF LIABILITY ARISING IN ANY WAY OUT OF THIS AGREEMENT. PURCHASER AGREES THAT AQUASYN'S LIABILITY UNDER THIS AGREEMENT, REGARDLESS OF THE FORM OF ACTION, SHALL IN NO EVENT EXCEED THE PRICE PAID BY THE PURCHASER FOR THE SUBJECT GOODS. THIS LIMITATION SHALL APPLY EVEN IF AQUASYN HAS BEEN ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

7. Aquasyn shall not be responsible for any delays or failure to perform caused by government orders or requirements, transportation conditions, labor or material shortages, supplier delays, strikes, riots, fires, weather, acts of God, terrorist acts, or any other cause beyond the reasonable control of Aquasyn and Aquasyn's performance shall be excused and this Agreement shall be deemed suspended during the continuance of such prevention and for a reasonable time thereafter. If the output or operations of Aquasyn or its suppliers is reduced by any such cause, then Aquasyn may allocate goods among its customers in a manner and to an extent that Aquasyn deems equitable in its sole and absolute discretion.

8. The relationship of Aquasyn and Purchaser established by this Agreement is that of vendor and purchaser and nothing contained herein shall be construed so as to create a partnership, joint venture or franchisor-franchisee relationship.

9. The provisions set forth herein, may not be supplemented, modified or amended in any manner, except by an instrument in writing stating that it is a supplement, modification or amendment of these provisions and signed by each party hereto. The terms and conditions on any purchase order forms issued by Purchaser shall not be deemed to be a part of this Agreement and shall not e deemed to modify or supplement this Agreement in any way, notwithstanding the fact that Aquasyn may acknowledge or otherwise approve such purchase orders. No waiver of any of these provisions shall be deemed or constitute a waiver of any other provision, whether or not similar, nor shall any waiver constitute a continuing waiver. No waiver shall be binding unless executed in writing by the party making the waiver.

10. In any action arising out of or relating to the terms, conditions, interpretation, construction or enforcement of this Agreement, the prevailing party in such action shall be entitled, in addition to all other relief awarded therein, to its actual attorney's fees paid or incurred. Any and all controversies claims and disputes arising out of or relating to this Agreement, or the breach thereof, shall be settled by binding arbitration in the County of Los Angeles, State of California, in accordance with the Commercial Arbitration Rules of the American Arbitration Association then in effect. The arbitration shall be conducted by one (1) arbitrator who is a retired judge or an attorney licensed to practice law in California with at least fifteen (15) years commercial and binding and not subject to appeal. The arbitrator's award shall be in the form of findings of fact and conclusions of law. Judgment may be entered to enforce the award in any court of competent jurisdiction and the party against whom such award is made waives all rights of objection to such enforcement. The prevailing party in any arbitration shall be entitled to an award of its attorneys' fees.

11. Neither party hereto, nor any of their employees, agents or representatives has made any statements, promises or agreements verbally or in writing in conflict with the terms set forth herein. Any and all representations by either of the parties or their employees, agents or representatives made during negotiations, which representations are not contained herein, shall not be binding upon either of the parties hereto. This Agreement contains the entire agreement between the parties. Time is of the essence of this Agreement and all of the terms, provisions, covenants and conditions hereof.

12. This Agreement shall be deemed to have been made under, and shall be construed and interpreted in accordance with the laws of the State of California without reference to principles of conflicts of laws. The parties expressly disclaim the provisions of the United Nations Convention for the International Sales of Goods. The English language version of this Agreement shall be controlling for all purposes. In the event that any provision hereof is deemed to be illegal or unenforceable, such a determination shall not affect the validity or enforceability of the remaining provisions, hereof, all of which shall remain in full force and effect. The rights, duties and obligations of each of the parties shall not be assigned without the consent of all the parties.

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