



**Welding &
Fabrication Inc.**



PRAHER POOL

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UNIONS

Size:	1/2" to 3"
Material:	Grade 1 PVC
O-Rings:	EPDM / NITRILE
Press. Rating	50PSI @70F
Design:	Schedule 40
	3" Schedule 80

Not recommended for use on pumps, heaters, or heat exchangers.

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1/2"	050-100	SKT X SKT	40
3/4"	075-100	SKT X SKT	40
1"	100-100	SKT X SKT	40
1 1/2"	150-100	SKT X SKT	50
1 1/2" – 2"	150-201	1 1/2" SKT X 2" SKT	50
2"	200-100	SKT X SKT	50
2.5"	250-100	SKT X SKT	25
3"	300-100	SKT X SKT	4

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-300	FIP/FIP	50
2"	200-300	FIP/FIP	50
3"	300-300	FIP/FIP	4

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-904	MIP X DUAL HOSE BARB C/W O-RING	50

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-903	MIP X SKT C/W O-RING	50
2"	200-903	MIP X SKT C/W O-RING	50
2"	200-993	MIP X 2' SKT 90 DEGREE C/W O-RING	25
3"	300-900	DISCONTINUED: See high heat unions	4
1 1/2" x 2"	200-90015	1 1/2" MIP X 2" SKT C/W O-RING	25

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-600	MIP X MIP	50

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-805	MIP X FIP	50



250-100



200-300



150-904



150-903



150-600



150-805

UNIONS

Size:	1/2" to 3"
Material:	Grade 1 PVC
O-Rings:	EPDM / NITRILE
Press. Rating	50 PSI
Design:	Schedule 40
	3" Schedule 80

Not recommended for use on pumps, heaters, or heat exchangers.

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-800	FIP X SKT	50
2"	200-800	FIP X SKT	50

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
2" – 1 1/2"	200-950	2" MIP C/W O-RING X 1 1/2" SKT	50



200-950

HIGH HEAT PUMP UNIONS

Size:	3/4" to 3"
Material:	High temp. polymer
O-Rings:	EPDM / NITRILE
Press. Rating	50 PSI
Max working temp.	176 F @50 PSI



Patented Design
U.S. Pat D594938

U.S. Patent No. 11 143 339



200-996



215-906



216-906



200-9061



150-906



200-906



225-9061

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
3/4"	075-906	MIP X SKT C/W O-RING, HEAT RESISTANT	25
1"	100-906	MIP X SKT C/W O-RING, HEAT RESISTANT	25
1 1/2"	150-906	MIP X SKT C/W O-RING, HEAT RESISTANT	50
2"	200-906	MIP X SKT C/W O-RING, HEAT RESISTANT	50
2" – 1 1/2"	215-906	2" SOCKET X 1.5" MIP, HEAT RESISTANT	50
1 1/2" – 2"	216-906	1 1/2" MIP X 2"SKT C/W O-RING HR	50
2" – 2"	200-996	2" MIP X 2"SKT- 90° C/W O-RING HR	25
2"	200-9061	MIP X SKT C/W O-RING, HEAT R. LONG NECK	20
2" – 2.5"	225-9061	2" MIP SKT C/W O-RING, HEAT R. LONG NECK	20
3"	300-906	3" MIP SKT C/W O-RING, HEAT R. LONG NECK	4

HIGH HEAT PUMP UNIONS

NO MORE:

CRACKED THREADS, LEAKS OR THREAD SEALANTS REQUIRED



GRADE 1 PVC SOCKET
(USE STANDARD CEMENT)

HIGH TEMPERATURE
O-RINGS (EPDM)

HIGHTEMPERATURE
(220 F HEAT DEFLECTION)
Polymer NUT AND BODY

100% COMPRESSION SEAL

NO STRESS ON MATING PART



IDEAL PUMP UNION DISCONNECTS

ALL MODELS PATENT PENDING

MAXIMUM SERVICE SPECIFICATIONS 80°C/176°F @ 3.5 BAR/50PSI

FEATURES

- Designed to install into pump volute and suction connection to prevent the failure of high temperature builds up in pump volutes when dry running pumps build up severe heat.
- Eliminates stressing outer thread of mating parts due to overtightening and possible consequent cracking.
- Eliminates the requirement of thread sealants while providing a reliable seal on the O-ring surface (high temp. EPDM).
- Provides easy installation while supplying a union connection for future servicing needs

SINGLE UNION BALL VALVES

Size:	1 1/2" & 2"
PVC White	
Material:	Grade 1 PVC
O-Rings:	EPDM / NITRILE
Ball Seats:	Polyethylene
Pressure Rating:	150 PSI
Schedule:	80 bore

Also available in metric

Praher's unique pinned true single union ball valve design provides for:

- User friendly handle operation – union nut load does not transfer onto ball seat, thereby providing user with easy handle operation even if valve not operated for a long period of time.
- "Below grade – blocked seat flooded suction design" – valve seat will not blow out from static pressure if union nut removed (with pump off).

Spare pin serves as a tool for valve servicing/repair
(remove from handle to assist in pin removal when servicing valve seat)



150-010



150-015



150-HB-MAXI



200-016

"BLOCKED" SINGLE UNION BALL VALVE

Allows disconnection of lines without fear of retainer-ring or ball moving. Retainer-ring is locked with two pins in the body.

SIZE	MODEL #	DESCRIPTION	QTY. /CRTN.
1 1/2"	150-0100	S.U. BL. B.V. SKT/SKT	100
1 1/2"	150-010	S.U. BL. B.V. SKT/SKT NSF 50 approved	25
1 1/2"	150-011	S.U. BL. B.V. SKT/FIP	25
1 1/2"	150-015	S.U. BL. B.V. MIP/FIP NSF 50 approved	30
1 1/2"	150-052	S.U. B.L. B.V. SKT/MIP	18
1 1/2"	150-016	S.U. BL. B.V. MIP/SKT NSF 50 approved	25
1 1/2"	150-HB MAXI	S.U. BL. B.V. MIP/DUAL HOSE - FULL SIZE	20
1 1/2"	150-0155	S.U. BL. B.V. MIP X MIP	20
1 1/2"	150-111	SU BL. B.V. FIP/FIP NSF 50 approved	25
2"	200-0100	S.U. B.L. B.V. SKT/SKT	102
2"	200-010	S.U. BL. B.V. SKT/SKT NSF 50 approved	17
2"	200-011	S.U. BL. B.V. SKT/FIP	17
2"	200-111	S.U. BL.B.V. FIP/FIP NSF 50 approved	17
2"	200-016	S.U. BL. B.V. MIP/SKT	17

SINGLE UNION BALL VALVES

Size:	1/2" - 1"
Material:	Grade 1 PVC
Colour:	Grey or White
O-Rings:	EPDM
Ball Seats:	Polyethylene
Pressure Rating:	200 PSI
Schedule:	80 bore

Praher's unique spanner wrench handle provides for easy valve seat servicing - just pull handle off ball stem & use as a tool (see picture). Praher's unique threaded true single union ball valve design provides for:

- User friendly handle operation – union nut load does not transfer onto ball seat, thereby providing user with easy handle operation even if valve not operated for a long period of time.
- Below grade – blocked seat flooded suction design – valve seat will not blow out from static pressure if union nut removed.

FEATURE:

- Handle can be used as tool to adjust threaded seal carrier.



GREY

GREY

	SKT x SK		FIP x FIP	
SIZE	MODEL #	MODEL#		QTY. PER CRTN.
1/2"	050-000	050-111		30
3/4"	075-000	075-111		30
1"	100-000	100-111		30

WHITE

WHITE

	SKT x SKT		FIP x FIP	
SIZE	MODEL #	MODEL#		QTY. PER CRTN.
1/2"	050-000W	050-111W		30
3/4"	075-000W	075-111W		30
1"	100-000W	100-111W		30

NOTE: PLEASE ORDER BY MODEL # ONLY

DRAIN VALVES

Size:	3/4"
Material:	Polypropylene
O-RINGS:	EPDM DV010

DV010



DV020



SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1/2"	050-DV010	1/2" PP DRAIN VALVE MIP x 3/4" GARDEN HOSE	100
3/4"	075-DV010	MIP X "GARDENA" MALE DISCONNECT	100
3/4"	075-DV020	MIP X GARDEN HOSE BIB	100
3/4"	075DV011	MIP X MIP	100

LABORATORY BALL COCK VALVES

Size:	1/4"-sch80, astm-d2464
Material:	PVC or PVDF
O-Rings:	EPDM or VITON
Ball Seats:	PTFE
Ends:	Male threaded x female threaded with one MPT x hose fitting

Ideal for instrumentation lines, chlorine feeder drain and general laboratory use.

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1/4"	128398A	PVC/EPDM/ -MIP X FIP WITH OUT FTG	10
1/4"	122355A	PVC/EPDM/ -MIP X FIP WITH HOSE FTG	10
1/4"	122356A	PVC/VITON/ -MIP X FIP WITH HOSE FTG	10
1/4"	122460A	PVDF/VITON/ -MIP X FIP WITH HOSE FTG	10



COMPACT BALL VALVES

Size:	1/2" - 2 1/2" socket x 2" spigot 2" socket x 2 1/2" spigot, 2.5"
Material:	NSF 61 PVC
O-Rings:	BUNA-N
Seals:	HDPE
Press Rating:	150 PSI
Design:	SCH 40, Socket
Vacuum Rating:	29.9" Mercury



200-ESPSP spigot x spigot

SLIP SOCKET PORTS			
SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1/2"	050-ES00	SLIP PORTS NSF 50 approved	25
3/4"	075-ES00	SLIP PORTS NSF 50 approved	25
1"	100-ES00	SLIP PORTS NSF 50 approved	25
1 1/2"	150-ES00	SLIP PORTS NSF 50 approved	30
2"	200-ES00	SLIP PORTS NSF 50 approved	20
2.5"	250-ES00	SLIP PORTS	4
4"	400-ES00	SLIP PORTS	1

FEMALE THREADED ENDS			
SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1/2"	050-ES00T	FIP ENDS NSF 50 approved	25
3/4"	075-ES00T	FIP ENDS NSF 50 approved	25
1"	100-ES00T	FIP ENDS NSF 50 approved	25
1 1/2"	150-ES00T	FIP ENDS NSF 50 approved	30
2"	200-ES00T	FIP ENDS	20
4"	400-ES00T	FIP ENDS	1

SPIGOT ENDS			
SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
2"	200-ESPSP	SPIGOT ENDS	20

DIVERTER VALVES

Size:	1 1/2" - 2" - 2 1/2" spigot
Material:	CPVC body black, Glass filled Noryl rotor, ABS handle, NSF 61
O-Rings:	NITRILE
Rotor Seal:	High temperature silicone gasket with Teflon jacket
Pressure Rating:	50 PSI
Positive seal back pressure:	15 PSI
Vacuum Rating:	29" Mercury

FEATURES:

- High heat lid that will not warp in the sun
- Proportional mixing availability.
- Double O-ring shaft seal.
- Permanently lubricated rotor seal with extreme wear resistance, exceeds 3000 dry cycle requirements.
- Chlorine, acid, and ozone resistant construction.
- OV2-2010
- Handle-locking knob provides eyelet for lock attachment.
- Engineered "PLAST-TITE" screws (18.8 stainless) will not crack plastic when servicing valve.
- Universal shaft spline pattern adapts to most actuators.
- All wetted materials are of NSF-50 or 61 designations.
- **Patented design US 6497250**

PRIVATE LOGO AVAILABLE
(size: 7/16" 1 3/4")

FIRST GLANCE TWO COLOUR
FLOW INDICATOR MARKINGS
"OPEN-CLOSED-FLOW DIRECTIONS"



OV2-2010

CPVC BODY

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2" - 2"	OV2-1500	2-Way Diverter Valve, Slip (1.5" ID, 2" OD) NSF 50 approved	12
1 1/2" - 2"	OV2-1590	90° 2-Way Diverter Valve, Slip (1.5" ID, 2" OD)	12
1 1/2" - 2"	OV3-1500	3-Way Diverter Valve, Slip (1.5" ID, 2" OD) NSF 50 approved	12
1 1/2"	OV3-1503	3-Way Diverter Valve, FPT NSF 50 approved	12
		Models below NSF 50 approved:	
2" - 2 1/2"	OV2-2000	2-Way Diverter Valve, Slip, C/W 1.5" Reducer Bushings (2" ID, 2.5"	12
2" - 2 1/2"	OV2-2010	2-Way Diverter Valve, Slip (2" ID, 2.5" OD)	12
2" - 2 1/2"	OV2-2090	90° 2-Way Diverter Valve, Slip (2" ID, 2.5" OD)	12
2" - 2 1/2"	OV3-2000	3-Way Diverter Valve, Slip, C/W 1.5" Reducer Bushings (2" ID, 2.5" D)	12
2" - 2 1/2"	OV3-2010	3-Way Diverter Valve, Slip (2" ID, 2.5" OD) NSF 50 approved	12

NEW*

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	OV3-1500-NP	3-Way Diverter Valve, Slip, Solar By-Pass	12
2" - 2 1/2"	OV3-2010-NP	3-Way Diverter Valve, Slip, Solar By-Pass (2" ID, 2.5" OD)	12

DIVERTER VALVES C/W UNIONS

Size:	1 1/2" - 2"
Material:	CPVC body black, Glass filled Noryl rotor, ABS handle, NSF 61
O-Rings:	NITRILE
Rotor Seal:	High temperature silicone gasket with Teflon jacket
Pressure Rating:	50 PSI
Positive seal back pressure:	15 PSI
Vacuum Rating:	29" Mercury

CPVC BODY



OV2-2010U



OV3-2010U

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	OV2-1500U	2-Way Diverter Valve, Slip, C/W Unions	12
1 1/2"	OV2-1590U	90° 2-Way Diverter Valve, Slip, C/W Unions	12
1 1/2"	OV2-1593U	90° 2-Way Diverter Valve, FPT, C/W Unions	12
1 1/2"	OV3-1500U	3-Way Diverter Valve, Slip, C/W Unions NSF 50 aprvd	12
1 1/2"	OV3-1503U	3-Way Diverter Valve, FPT, C/W Unions	12
1 1/2"	OV3-15FFMU	3-Way Diverter Valve, FPT x FPT x MPT, C/W Unions	10
1 1/2"	OV3-15SSMU	3-Way Diverter Valve, Slip x Slip x MPT, C/W Unions NSF 50 aprvd	10
2"	OV2-2010U	2-Way Diverter Valve, Slip, C/W Unions	12
2"	OV2-2090U	90° 2-Way Diverter Valve, slip, C/W Unions	12
2"	OV2-2093U	90° 2-Way Diverter Valve, FPT, C/W Unions	12
2"	OV3-2010U	3-Way Diverter Valve, Slip, C/W Unions NSF 50 approved	10
2"	OV3-20SSMU	3-Way Diverter Valve, Slip x Slip x MPT, C/W Unions	8

VARIABLE FLOW VALVES

FEATURES:

- 2 port, 2" socket design, same construction as OV3 series
- Indicator on lid and handle
- New flow control handle for easy flow adjustment
- Handle is in line with pipe if fully open
- Auxiliary side port (1/2"socket): field installation of pressure gauge etc.
- Valve is supplied with 1/2"spigot x 1/4"FNPT bushing



VF2-2010

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
2"	VF2-2010	2"-2 PORT WITH FLOW INDICATOR HANDLE	12

3 WAY DIVERTER VALVES

Size:	2.5" socket - 3"spigot
Material:	Body, cover, nut, NSF approved PVC-grey
Rotor:	Glass reinforced Polyphenylene oxide
O-Rings:	EPDM
Rotor seal:	Low friction ethylene elastomer
Rotor load bearings:	Low friction polyoxymethylene
Pressure rating:	50 PSI with full seal back pressure rating
Vacuum rating:	29" inch mercury Burst pressure: 500 PSI
Flow rating:	400 GPM @ 4.4 PSI head loss



FEATURES:

- Easy read valve position indicator
- Low friction elastomeric seal with full vacuum rating
- High strength diverter with precision machined load bearings
- Easy valve servicing with spin off union nut—no special tools required
- Double shaft seal O-rings
- Patented rotor seal de-energizing chamber for "off service position"
- Patented internal "ANTI SEAL PINCH" design
- Electric Actuator package 24VAC or 110VAC - (600" pounds torque, amps drawn for 24VAC = 2.6, 110VAC = 1.0)
- Easy actuator retrofitting
- Multiple (4) indexing positions for common port selection
- Made in North America (Canada)



THE BIG KAHUNA

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
3"	OV3-3000	3 SPGT PVC DIVERTER VALVE	1
3"	OV3-3024	3-PORT PVC DIVERTER VALVE 2½" SKT x 3" SPG w/ 12-24 VAC/DC ACTUATOR	1
3"	OV3-3110	3-PORT PVC DIVERTER VALVE 2½" SKT x 3" SPG w/ 85-240 VAC/DC ACTUATOR	1
	J-485S	ELECTRIC ACTUATOR 24-240 VAC/VDC	1

FLAPPER CHECK VALVES

Size:	1 1/2" - 2 1/2"
Material:	CPVC body, clear lid, NSF/ANSI 61
O-Rings:	NBR
Flapper Seal:	Viton
Pressure Rating:	50 PSI
Hardware:	Corrosion proof pin and hastealloy sping (3/4 lbs)

FEATURES:

- CPVC body for most demanding applications
- Clear lid for easy inspection and access
- Reversible flow
- Flow indication arrow on lid
- Unique seal technology
- All wetted materials are of NSF/ANSI 61 designation
- 1 PSI head loss at 88 GPM
- Cracked open pressure .5 PSI



FCV-2010



FCV-2010U

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2" - 2"	FCV-1510	CPVC STRAIGHT CHECK VALVE, 1.5" SKT X SKT & 2" SPIGOT X SPIGOT	12
1 1/2" - 2"	FCV-1510U	CPVC STRAIGHT UNIONIZED CHECK VALVE, 1.5" SKT X SKT	12
1 1/2" - 2"	FCV-1590	CPVC 90° CHECK VALVE, 1.5" SKT X SKT & 2" SPIGOT X SPIGOT	12
2" - 2 1/2"	FCV-2010	CPVC STRAIGHT CHECK VALVE, 2" SKT X SKT & 2.5" SPIGOT X SPIGOT	12
2" - 2 1/2"	FCV-2010U	CPVC STRAIGHT UNIONIZED CHECK VALVE, 2" SKT X SKT	12
2" - 2 1/2"	FCV-2090	CPVC 90° CHECK VALVE, 2" SKT X SKT & 2.5" SPIGOT X SPIGOT	12

SINGLE UNION SPRING CHECK VALVES

Material: Grade 1 PVC (White)

O-Rings: EPDM, Viton

Compression Spring: SS 302, Hastelloy

Pressure Rating: 150 PSI

FEATURE:

- Available with multiple spring loads.
- Flow check can be reversed by switching poppet assembly.
- 1 1/2" body can be glued onto 1 1/2" pipe or into 2" socket.
- **Valve packaged with 3 spring loads** (1/4 lb, 1/2lb and 2 lb) - "TRI".
- 1 1/2" model = 1 PSI headloss @ 60 GPM
- 2" model = 1 PSI headloss @ 90 GPM



1 1/2"

2"

SKT x SKT			SKT x SKT		
MODEL #	SPRING LOAD	QTY. PER CTRN.	MODEL #	SPRING LOAD	QTY. PER CRTN.
150-CV-025	1/4 LB	30	200-CV-025	1/4 LB	18
150-CV-050	1/2 LB	30	200-CV-050	1/2 LB	18
150-CV-200	2 LB	30	200-CV-200	2 LB	18
150-CV-350	3 1/2LB	30	200-CV-350	3 1/2 LB	18
150-CV-500	5 LB	30	200-CV-500	5 LB	18
150-CV-TRI	1/4 - 2 LB	30	200-CV-TRI	1/4 - 2 LB	18

High corrosion resistant 2 lbs valves - (Viton seals) Hastelloy-C springs

SIZE	MODEL #	SPRING LOAD	QTY. PER CRTN.
1 1/2"	150-CV-200CR	2 LB	30
2"	200-CV-200CR	2 LB	18
1 1/2"	150-CVC-200CR	2 LB	30 Clear Body
2"	200-CVC-200CR	2 LB	18 Clear Body

CLEAR BODY CHECK VALVES

SIZE	MODEL #	SPRING LOAD	QTY. PER CRTN.
1 1/2"	150-CVC-025	1/4 LB	30
2"	200-CVC-025	1/4 LB	18
1 1/2"	150-CVC-TRI	1/4 - 2 LB	30
2"	200-CVC-TRI	1/4 - 2 LB	18



SLIM-LINE CHECK VALVES

Size:	2" -SCH 80
Ends:	2" Socket
Seal:	EPDM
Body:	PVC
Pressure Rating:	150 PSI



FEATURE:

- Full 2" Flow
- 1 PSI Head Loss at 90 GPM
- 2" socket - 2 1/2" spigot ends

MODEL #	SPRING LOAD	QTY. PER. CRTN.
200-CVS-025	1/4 LB	30
200-CVS-050	1/2 LB	30
200-CVS-200	2 LB	30
200-CVS-350	3 1/2 LB	30
200-CVS-500	5 LB	30
215-CVS-050	1/2 LB	20

KNIFE GATE VALVES

Sizes:	1" to 4"
Material:	Grade 1 PVC
O-Rings:	EPDM
Seals:	TPE Ozone Resistant (Santoprene) Pressure
Rating:	50 PSI. (1 1/2" & 2 1/2") 15 PSI. (3" & 4")
Gate:	POM (1 1/2" to 2 1/2")
	PVC-(3" & 4")
Shaft:	316 stainless-steel
	1" - 2 1/2" = white, 3" & 4" = grey



GATE = skt x skt



SLSP = skt x spigot



150-GMFT



HB4PMT MPT x VAC hose barb (1.5")



150-HB4PX2



151-GMFT

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN
1"	100-GATE	SKT X SKT	30
1 1/2"	150-GMFT	MIP X FIP (WHITE)	18
1 1/2"	151-GMFT	MIP X FIP (BLACK)	18
1 1/2"	150-GMMT	MIP X MIP	30
1 1/2"	150-GATE	SKT X SKT	24
1 1/2"	150-SLSP	SKT X SPIGOT	24
1 1/2"	150-UNIO	150-GATE W. UNION	17
1 1/2"	150-UNKT	UNION KIT- TO UNIONIZE 150-GATE	24
1 1/2"	150-HBMT	1 1/2" HOSE X MIP	30
1 1/2"	150-GFFT	FIP X FIP (WHITE)	24
1 1/2"	151-GFFT	FIP X FIP (BLACK)	24
1 1/2"	150-SLMT	SKT X MIP (WHITE)	18

NOTE:

- Pool hose barbs (HB4) accommodate vacuum hose inside diameter of 1.5"
- Our model 150-HBMT accommodates "FLEX" PVC pipe and poly hose [barb diameter (1 & 5/8")]

KNIFE GATE VALVES



150-UNIO



150-HBMT



SAFETY CLIP

SIZE	MODEL #	QTY. PER CRTN.
1 1/2"	150-CLP	50
2"	210-CLP	50
2 1/2"	260-CLP	50
3" - 4"	400-CLP	10



4" with pneumatic actuator

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-HBX2	1 1/2" HOSE X 1 1/2" HOSE	18
1 1/2"	150-HB4PMT	1 1/2" POOL HOSE X 1 1/2" MIP	18
1 1/2"	150-HB4PX2	1 1/2" POOL HOSE X 1 1/2" POOL HOSE	30
2"	200-GATE	SKT X SKT	25
2"	200-SLSP	SKT X SPIGOT	25
2"	200-UNIO	VALVE WITH UNION 2"	25
2 1/2"	250-GATE	SKT X SKT	18
2 1/2"	250-SLSP	SKT X SPIGOT	12
3"	300-GATE	SKT X SKT GREY inc. safety clip	2
3"	300-GV16	SKT X SKT WHITE	4
4"	400-GATE	SKT X SKT GREY inc. safety clip	2

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
2"	200-GAIRMAG	2" GATE VALVE WITH AIR ACTUATOR D.A.	1
3"	300-GAIRMAG	3" GATE VALVE WITH AIR ACTUATOR D.A.	1
4"	400-GAIRMAG	4" GATE VALVE WITH AIR ACTUATOR D.A.	1

UNI-BODY KNIFE GATE VALVES

Feature:	Patent Pending gate design with integrated O-ring
	Safety clip included to keep gate open
	Internal gate snap lock feature to keep gate open
Material:	PVC white
O-Rings:	Buna Nitrile, EPDM, Viton
Ports:	2" socket by 2.5" spigot, 2.5" socket by 3" spigot
Pressure Rating:	Max. 50PSI



SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
2"	210-GATE	PVC UNIBODY GATE VALVE SKTXSKT	BULK
2"	210-GSLSP	PVC UNIBODY GATE VALVE SKTXSPIGOT	BULK
2 1/2"	260-GATE	PVC UNIBODY GATE VALVE SKTXSKT	BULK
2 1/2"	260-GSLSP	PVC UNIBODY GATE VALVE SKTXSPIGOT	BULK

MANWAY GASKET FOR NEMATO TANK

MODEL #	DESCRIPTION	QTY. PER CRTN.
NEM-GASK1612	16" X 12" G7950 GASKET FOR MANWAY GASKET FOR NEMATO TANK	1



INLINE SIGHT GLASS

Size:	1 1/2" - 3"
Material:	PVC- clear
O-Rings:	EPDM



FEATURES:

- Fully unionized inline sight glass for easy cleaning

MODEL #	DESCRIPTION	QTY. PER CRTN.
152-ISG	1 1/2" INLINE SIGHT GLASS SKT X SKT	1
202-ISG	2" INLINE SIGHT GLASS SKT X SKT	1
252-ISG	2 1/2" INLINE SIGHT GLASS SKT X SKT	1
302-ISG	3" INLINE SIGHT GLASS SKT X SKT	1

PLASTIC CLAMP RING FOR TOP MOUNTED L-STYLE FLANGE

MODEL #	DESCRIPTION	QTY. PER CRTN.
12L-CLP	CLAMP RING INCLUDING HARDWARE	1

FITS ON TM-12-L & TM-22-L



BACKWASH - SIGHT GLASS

Size:	1 1/2"
Material:	PVC, ABS, Acrylic
O-Rings:	EPDM

FEATURES:

- Noncorrosive plastic construction
- Threaded cleaning plug
- Light weight

APPLICATION:

- Radial installation in 3" or 4" backwash line

MODEL #	DESCRIPTION	QTY. PER CRTN.
SGS-150	1 1/2" BACKWASH SIGHT GLASS	6



TOP MOUNT MULTIPORT VALVES

Sizes:	1½" & 2"
Material:	ABS (white or black)
	Noryl - glass filled
O-Rings:	EPDM



FEATURES:

- Choice of socket or threaded (BSP or NPT) ports.
- Choice of screw-down, bolt-down, or clamp-down models
- O-ring for standpipe standard

PORTING OF TM12 CFC ONLY
DOES NOT MATCH OEM



TM-12-CFC

TM-12L

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	TM-12-A	6" UNC THREAD (FINE V-THREAD)	1
1 1/2"	TM-12-B	6" BUTTRESS THREAD (COURSE V-THREAD)	1
1 1/2"	TM-12-E	BOLT DOWN 8 BOLTS (7-11)	1
1 1/2"	TM-12-S	CLAMP DOWN 7.5" CLAMP FLANGE (American)	1
1 1/2"	TM-12-S8	CLAMP DOWN 8.22" CLAMP FLANGE (American)	1
1 1/2"	TM-12-H8	CLAMP DOWN 8" CLAMP FLANGE (SP711-13)	1
1 1/2"	TM-12-L	CLAMP DOWN 8.25" CLAMP FLANGE - NSF 50 Approved	1
1 1/2"	TM-12-JL	DISCONTINUED	
1 1/2"	TM-12-JL7	BOLT DOWN 6 BOLTS LASER FILTER/CODE 130167	1
1 1/2"	TM-12-PB	5.98" BUTTRESS THREAD	1
1 1/2"	TM-12-CFC	CLAMP DOWN 6.5" CLAMP FLANGE 130885	1
1 1/2"	TM-12-9BH	CLAMP DOWN 9" CLAMP FLANGE	1
2"	TM-22-L	CLAMP DOWN 8.25" CLAMP FLANGE	1
2"	TM-22-JAC	7 1/16" BUTTRESS THREAD	1
2"	TM-22-PB	CLAMP DOWN 8.22" CLAMP FLANGE	1
2"	TM-22-E	BOLT DOWN 8 BOLTS	1
2"	TM-22-PA	CLAMP DOWN 8.22" CLAMP FLANGE	1
		W/O DIFFUSER BASKET	
2"	TM-22-H8	CLAMP DOWN 8" CLAMP FLANGE (SP716-21)	1
2"	TM-22-LA	1 BOLT DOWN 12 BOLTS, 247BC	1

FLOW RATES

1 1/2" Top Mount MPV flow rate in GPMs	20	30	40	50	60	70	80	
1 1/2" Top Mount MPV head loss in PSI	1.0	1.8	2.9	1.2	5.6	7.3	9.0	
2" Top Mount MPV flow rate in GPMs	70	80	90	100	110	120	130	140
2" Top Mount MPV head loss in PSI	2.2	2.8	3.6	4.4	5.3	6.3	7.4	8.7

SIDE MOUNT MULTIPORT VALVES

Size:	1/2", 2" and 3"
Material:	High impact ABS (white or black).
Option:	Glass filled NORYL for high pressure applications. (75 PSI. operating pressure).

FEATURES:

- Choice of socket or threaded (FIP)
- NPT, BSP or JIS threads
- Four piping variations including all open ports
- Two plugs will be supplied with all open port models.

3" MODELS:

All open ports with socket ports only



Fits Pentair TR-100 C-3 & TR-140 C-3

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	SM-10-2	ABS S.M. MPV THR PORTS FOR D.E. FILTER NSF 50 approved	1
1 1/2"	SM-10-3	ABS S.M. MPV THR PORTS FOR SAND FILTER NSF 50 approved	1
1 1/2"	SM-10-AO	ABS S.M. MPV ALL OPN THR PORTS C/W PLUGS (SAND OR DE) NSF 50 approved	1
2"	SM-20-2	ABS S.M. MPV THR PORTS FOR D.E. FILTER NSF 50 approved	1
2"	SM-20-3	ABS S.M. MPV THR PORTS FOR SAND FILTER NSF 50 approved	1
2"	SM-20-AO	ABS S.M. MPV ALL OPN THR PORTS C/W PLUGS (SAND OR DE) NSF 50 approved	1
1 1/2"	SM-10-AOS	ABS S.M. MPV ALL OPN SLIP PORTS (SAND OR DE)	1
2"	SM-20-AOS	ABS S.M. MPV ALL OPN SLIP PORTS (SAND OR DE)	1
3"	SM-30-AO	DISCONTINUED	
3"	SM-30-AOB	(BLACK) ABS S.M. MPV ALL OPEN SLIP PORTS (SAND OR DE)	1
3"	SM3-PP3TRC3	ABS S.M. MPV FITS PENTAIR TR-100 C-3, TR-140 C-3, COM. SAND FILTER	1

ALL SM30 MODELS AFTER JANUARY 2002 WILL HAVE SPIDER GASKET IN ROTOR

FLOW RATES

3" Side Mount MPV flow rate in GPMs	170	185	200	220	240	255	270	300	320	340
3" Side Mount MPV head loss in PSI	1.6	2.0	2.6	3.0	3.5	4.0	4.8	5.5	6.2	7.0

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
3"	HWK-300	HRDWR KIT W/ GASKETS, NUTS, BOLTS & WASHERS FOR 3" PRE-PLUMBED MPV	1

PRE-PLUMBED MULTIPORT VALVES

FEATURES:

- Molded 90° plumbing sweep for
- optimum flow performance



SM2-PP3

SM1-PP2

PREPLUMBED MPVS FOR SAND FILTERS

SIZE	MODEL #	DESCRIPTION
1.5"	SM1-HP3	SM-10-3 W HAYWARD PLUMBING (5" CENTER) 1.5" FIP NSF 50 approved
1.5"	SM1-HPX62	SM-10-3 W. HAYWARD PLUMBING F. PRO SERIES - 6" CENTERS
2"	SM2-HP3	SM 20-3 W/ HAYWARD (5" CENTER) 2" FIP NSF 50 approved
		(6" CENTRE TO CENTRE PLUMBING) 1.5" FIP
1.5"	SM1-PP3	SM-10-3 W. Pentair, 1.5" FIP NSF 50 approved
2"	SM2-PP3	SM-20-3 W. Pentair 2" FIP NSF 50 approved
2"	SM2-HPX62	SM-20-3 W. HAYWARD PLUMBING 2" FIP, PRO SERIES 6" CENTER

PREPLUMBED MPVS FOR D.E. FILTERS

SIZE	MODEL #	DESCRIPTION
1.5"	SM1-HP2	SM10-2 W. HAYWARD PLUMBING 5" CENTER, 1.5" FIP NSF 50 approved
2"	SM2-HPXR50	SM20-2 W. HAYWARD PLUMBING 5" CENTER, 2" FIP NSF 50 approved
2"	SM2-HPXR50S	SM20-2 W. HAYWARD PLUMBING 5" CENTER, 2" SOCKET NSF 50 approved
1.5"	SM1-PP2	SM10-2 W. Pentair 1.5" FIP NSF 50 approved
2"	SM2-PP2	SM20-2 W. Pentair 2" FIP NSF 50 approved

PREPLUMBED MPVS FOR STA-RITE FILTERS

SIZE	MODEL #	DESCRIPTION
2"	SM2-SR3U	SM-20-3 W. STA-RITE PLUMBING, 2" FIP WHITE
2"	SM2-SR2	SM20-2 W. STA-RITE PLUMBING 2" FIP, BLACK NSF 50 approved

FLOW RATES

	20	30	40	50	60	70	80	
1 1/2" Side Mount MPV flow rate in GPMs								
1 1/2" Side Mount MPV head loss in PSI	0.8	1.5	2.5	3.8	5.0	6.5	8.0	
2" Side Mount MPV flow rate in GPMs	70	80	90	100	110	120	130	140
2" Side Mount MPV head loss in PSI	3.2	4.3	5.5	6.6	8.2	10.0	11.0	12.0

BULKHEAD ADAPTER HALF UNION

MODEL #	DESCRIPTION	QTY. PER CRTN.
UNK-1TRITON	1 1/2" SPIGOT HALF UNION C/W O-RING	1
UNK-2TRITON	2" SPIGOT HALF UNION C/W O-RING	1
UNK-1HAY	1 1/2" SPIGOT HALF UNION C/W O-RING	1
UNK-2HAY	2" SPIGOT HALF UNION C/W O-RING	1
UNK-2SR	2" SPIGOT HALF UNION C/W O-RING	1
	MACHINED 2"	



AQUASTAR MP6 PLC

NOTE:

CONTROLS SUCH AS PRESSURE SWITCH, TIMERS, RELAYS, ON & OFF SWITCHES FOR CONTROLLING AQUASTAR ACTUATOR ARE NOT INCLUDED, AND MUST BE PROVIDED BY YOUR OWN PLC SYSTEM.

- 24 VDC 6 position valve actuator.
- Protection Class IP65
- Controls and power supply to be supplied by others.
- Very economical and the most universal automated valve actuator on the market.
- Internal pump limit switch will disrupt pump during actuator's positioning mode.
- Manufactured in an ISO 9001 facility.
- Adaptation to all commonly used filters by means of 1.5" or 2" side/top mounts or 3" side mount
- MP = PROGRAMMABLE LOGIC CONTROL

APPLICATIONS:

- Provides automation of Praher Plastic Multiport valves by use of PLC controls.



**For clean water use only.
Not to be used in high humidity
environment or direct sunlight.**

MODEL #	VALVE	DESCRIPTION
AMP-SM10AO	1 1/2"	24VAC/MULTIPOSITION/SM-10-AO/6POS.
AMP-SM20AO	2"	24VAC/MULTIPOSITION/SM-20-AO/6POS.
AMP-SM30AOB	3"	24VAC/MULTIPOSITION/SM-30-AO/6 POS.
131386	1 1/2" - 2"	ACTUATOR WITHOUT VALVE - 24V AC
131387	3"	ACTUATOR WITHOUT VALVE - 24V AC

PART #	DESCRIPTION
131280	6V DC Gear Motor
131281	Pump Limit Switch
131410	24V AC/DC Circuit Board
102026	Blue adapter washer (excluded for TM-12-JI7, TM-12-CFC & 3" models)
101862	Handle
101393	Locking Insert for 3" AquaStar ASA-GF

AQUASTAR CONTROL



FEATURES:

- Programmable backwash control of Praher multi-port valves
- Time and pressure backwash cycle release
- Adjustable pressure sensor trigger pressure
- Digital display screen for easy program adjustments
- Real-time display of current conditions
- Protection class IP65
- Internal pump limit switch will disrupt pump during actuator's positioning mode
- Adaptation to all commonly used filters by means of 1.5" or 2" side/top mounts or 3" side mount



MODEL #	DESCRIPTION
AC-TM12H8	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON (TM-12-H8 NSF 50 Approved)
AC-TM12L	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON (TM-12-L NSF 50 Approved)
AC-TM12PB	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON TM-12-PB
AC-TM22L	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON TM-22-L
AC-TM22PB	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON TM-22-PB
AC-TM22H8	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON TM-22-H8
AC-SM3PP3TRC3	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM3-PP3TRC3 (FLANGED)
AC-SM30AOB	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM-30-AOB (SLIP)
AC-SM20AO	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM-20-AO (FPT)
AC-SM10AO	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM-10-AO (FPT)
AC-SM1PP3S	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM1-PP3 (SLIP)
AC-SM1PP3	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM1-PP3 (FPT)
AC-SM1PP2	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM1-PP2 (FPT)
AC-SM2PP3S	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM2-PP3S (SLIP)
AC-SM2PP3	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM2-PP3 (FPT)
AC-SM2PP2	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM2-PP2 (FPT)
AC-SM2SR2	AUTO BW VALVE AQUASTAR CONTROL 100-230V ON SM2-SR2 (FPT)
AQUASTARS ONLY	
131492	ACTUATOR FOR 1.5" & 2" VALVE, 24V AC/DC
131493	ACTUATOR FOR 1.5" & 2" VALVE, 24V AC/DC OR 110-240V AC OR 170-300V DC
131494	ACTUATOR FOR 3" VALVE, 24V AC/DC
131495	ACTUATOR FOR 3" VALVE, 24V AC/DC OR 110-240V AC OR 170-300V DC

AQUASTAR CONTROL PARTS LIST



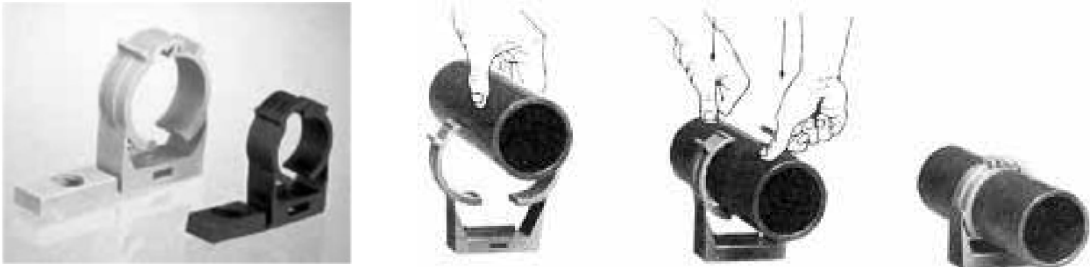
PART #	DESCRIPTION
131512	230V Circuit Board
131280A	6V DC Gear Motor
131281A	Pump Limit Switch
131450A	Pressure Sensor
131515	Cover with Digital Display
101393	Locking Insert for 3" Aquastar ASA-GF

AQUASTAR COMFORT 6001 PARTS LIST

PART #	DESCRIPTION
131282	230V Circuit Board
131280	6V DC Gear Motor
131281	Pump Limit Switch
131348	Pressure Sensor
131283	Digital Clock
101393	Locking Insert for 3" Aquastar ASA-GF

PIPE CLAMPS S4 SERIES

Materials:	High impact copolymer
	polypropylene (grey) UV stabilized.



SIZE	DIAMETER RANGE MM	MODEL #	QTY. PER CRTN.
3/8"	17-19 mm	PP-038	1200
1/2"	20-23 mm	PP-050	1000
3/4"	25-28 mm	PP-075	600
1"	31-35 mm	PP-100	500
1 1/4"	39-43 mm	PP-125	350
1 1/2"	47-51 mm	PP-150	225
2"	60-65 mm	PP-200	125
2 1/2"	72-77 mm	PP-250	150
3"	88-92 mm	PP-300	100

Technical specifications see page 59

PIPE EXTENDERS

Materials:	PVC white
	PVC sch40

INSIDE x SPIGOT SCH40		
SIZE	MODEL #	QTY. PER CRTN.
1 1/2"	ISPX-150	50
2"	ISPX-200	50



INSERT FITTINGS



150-MTH4



150-SPH4



150-314



150-317



150-SPH4P

JACUZZI FITTING

FOR POLYETHYLENE HOSE (HOSE INSIDE DIAMETER 1 & 5/8")

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-MTH4	1 1/2" MIP X 1 1/2" HOSE BARB ABS (WHITE)	50
1 1/2"	150-SPH4	1 1/2" SPIGOT X 1 1/2" HOSE BARB PVC (WHITE)	50

FOR FLEX PVC OR EXTRUDED POOL HOSE (HOSE I.D. 1.5")

SIZE	MODEL #	DESCRIPTION	QTY. PER CRTN.
1 1/2"	150-MTH4P	1 1/2" MIP X 1 1/2" POOL HOSE (ABS) BLACK	50
1 1/2"	150-SPH4P	1 1/2" SPIGOT X 1 1/2" POOL HOSE (PVC) WHITE	50
1 1/2"	150-314	1 1/2" MIP X 1 1/2" POOL HOSE (CLEAR)	10
1 1/2"	150-HCOUP	1 1/2" POOL HOSE COUPLER	50
1 1/2"	150-317	1 1/2" DUAL HOSE (WHITE) ADAPTER	50
1 1/2"	150-258	50MM SPGT. X 1.5" - 1.25" HOSE BARB ABS WHITE	50

WINTERIZING PLUGS

SIZE	MODEL #
1/4"	025-PLG
1 1/2"	150-PLG
2"	200-PLG

