

HydroMode™

Food Grade - FR Series Regulators



FR-827

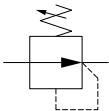
HydroMode™ FR Series Food Grade Regulators are compact units that provide economical, high performance pressure regulation of drinkable water. The highly sensitive diaphragm-operated design delivers accurate downstream pressure and the molded rubber supply valve provides precise regulation while helping to prevent leakage. Materials in contact with water are approved by National Sanitation Foundation (NSF) or the Food and Drug Administration (FDA) for use in potable water systems. All elastomers used in their construction are food grade.

Features

- NSF electrodeposited chromium plated zinc body
- FDA acetal bonnet, valve seat
- Food grade nitrile/nylon diaphragm, O-ring
- Lead-free brass and food grade nitrile valve plug
- Mounting by pipe or bracket and panel mountable (with optional panel nut)
- (2) 1/8" NPT gauge ports
- 1/8" and 1/4" NPT ports
- Made in the USA



Mounting bracket not included.



Regulator

FR Series Regulators							
Part No.	Price	Weight (lbs)	Port Size (FNPT)	Fluid	Flow Capacity	Operating Pressure	Maximum Supply Pressure
FR-817	\$10g_:	0.4	1/8"	Water	2.2 gal/min	0-100 psi (0-0.69 MPa) (0-6.9 bar)	150psi (1.03 MPa) (10.5 bar)
FR-827	\$10g#:	0.4	1/4"				

Note: A filter (40 micron or less) is recommended ahead of regulator.

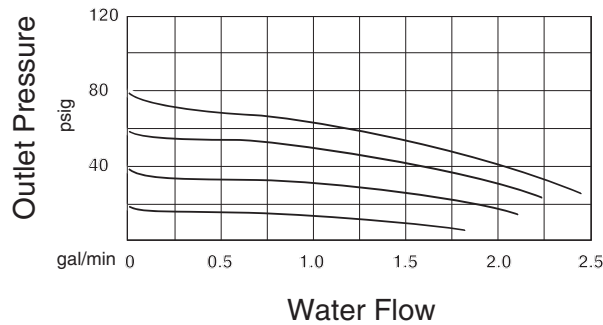


Food Grade - FR Series Regulators

Performance Charts

FR-X

1/4" NPT Port, 0-100 psig Range, 100 psig Supply;
Flows for Outputs of 20, 40, 60, & 80 psig

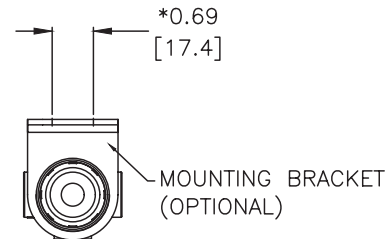


Dimensions

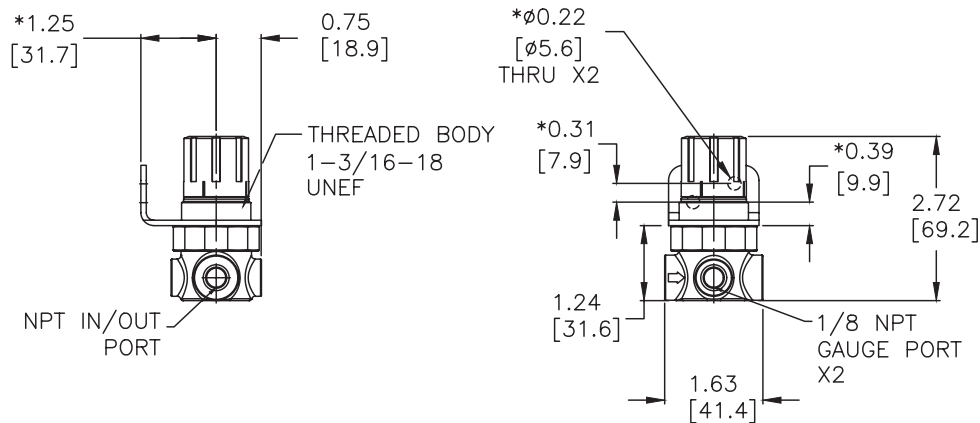
Inches [mm]

FR-X

PART NUMBER	INLET/OUTLET PORT
FR-817	1/8 NPT
FR-827	1/4 NPT



*DIMENSIONS WITH
OPTIONAL BRACKET



Accessories

See our Web site www.AutomationDirect.com for complete Engineering drawings.



FBKT-8A

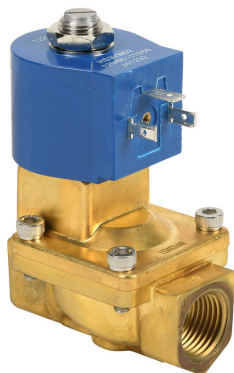


FN-8

Food Grade FR Series Accessories				
Part No.	Price	Description	Material	Weight (lbs)
FBKT-8A	\$61eq:	HydroMode mounting bracket, for use with FR-8 series water regulators.	Plated Steel	0.1
FN-8	\$10h9:	HydroMode panel nut, 1-3/16-18 UNEF threads. For use with FR-8 series water regulators.	Acetal	0.1



71 Series Water Valves (Brass)

Part No. [NS711YH02C9DG1](#)

GC Valves 71 Series water valves are an excellent choice for potable water applications. These valves are certified to NSF/ANSI 61 and have lead-free brass bodies and NSF approved EPDM diaphragms. Ported for 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, or 2 inch NPT. Valves are available with either 120VAC or 24VDC solenoids.

Features

- 2-Ports (2-way), 2-position
- Normally closed (N.C.) or normally open (N.O.) configuration
- Piloted diaphragm operator
- 18mm (DIN 43650A) style wiring plug
- 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, or 2 inch NPT ports
- 120VAC or 24VDC solenoids
- Made in the USA



Also, see our website
www.AutomationDirect.com
for a variety of fitting options



Certified to
NSF/ANSI 61



Made
in the
USA

711 Normally Closed Water Valves							
Model	NS711YH02C9CG1	NS711YH02C9DGT1	NS711YH02C9EG5	NS711YH02C9FG9	NS711YH02C9GJ2	NS711YH02C9HJ5	NS711YH02C9JJ7
Price	\$--06j3l:	\$-06j3n:	\$-06j3o:	\$-06j3p:	\$-06j3q:	\$-06j37:	\$-06j38:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.77	1.73	2.17	3.24	6.88	6.33	9.78
Valve Type	2-Ports (2-way), 2-position						
Acting	Piloted diaphragm, normally closed						
Inlet/Outlet Port Size	3/8" FNPT	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4" FNPT	1-1/2" FNPT	2" FNPT
Orifice Size	1/2"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cv	4.3	4.3	6.7	13	22	30	48
Media	Water						
Max Operating Pressure	150 psi				200 psi		
Min Operating Pressure	8 psi						
Voltage (± 10%)	110/120 VAC, 50/60 Hz						
Power Consumption	8 Watts						
Holding Amps (VA)	0.110 (14)						
Inrush Amps (VA)	0.330 (40)						
Max Cycles per Minute**	15						
Insulation	Class H 356°F (180°C)						
Min Response	25 to 100 ms						
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C)						
Lubrication	Not required						
Protection	NEMA 4/4X Encapsulated						
Connection	18mm (DIN 43650A) terminal						
Construction	Lead-free brass body, EPDM rubber seal(s)						
Life Cycle	1 Million						
Agency Approvals*	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized						

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



71 Series Water Valves (Brass)

711 Normally Closed Water Valves							
Model	NS711YH16C9CG1	NS711YH16C9DG1	NS711YH16C9EG5	NS711YH16C9FG9	NS711YH16C9GJ2	NS711YH16C9HJ5	NS711YH16C9JJ7
Price	\$--06j3j:	\$-06j3k:	\$-06j3s:	\$-06j3d:	\$-06j3t:	\$-06j3u:	\$-06j3v:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.77	1.72	2.15	3.24	6.86	6.29	9.71
Valve Type	2-Ports (2-way), 2-position						
Acting	Pilotd diaphragm, normally closed						
Inlet/Outlet Port Size	3/8" FNPT	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4" FNPT	1-1/2" FNPT	2" FNPT
Orifice Size	1/2"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cv	4.3	4.3	6.7	13	22	30	48
Media	Water						
Max Operating Pressure	150 psi						
Min Operating Pressure	8 psi						
Voltage ($\pm 10\%$)	24VDC						
Power Consumption	9 Watts						
Holding Amps (VA)	0.375						
Inrush Amps (VA)	0.375						
Max Cycles per Minute**	15						
Insulation	Class H 356°F (180°C)						
Min Response	38 to 150 ms						
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C)						
Lubrication	Not required						
Protection	NEMA 4/4X Encapsulated						
Connection	18mm (DIN 43650A) terminal						
Construction	Lead-free brass body, EPDM rubber seal(s)						
Life Cycle	1 Million						
Agency Approvals*	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized						

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



71 Series Water Valves (Brass)

712 Normally Open Water Valves							
Model	NS712YH02C9CG1	NS712YH02C9DG1	NS712YH02C9EG5	NS712YH02C9FG9	NS712YH02C9GJ2	NS712YH02C9HJ5	NS712YH02C9JJ7
Price	\$-06j39:	\$-06j3a:	\$-06j3b:	\$-06j3g:	\$-06j3h:	\$-06j3i:	\$-06j3c:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.77	1.73	2.15	3.25	6.83	6.35	9.76
Valve Type	2-Ports (2-way), 2-position						
Acting	Piloted diaphragm, normally open						
Inlet/Output Port Size	3/8" FNPT	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4" FNPT	1-1/2" FNPT	2" FNPT
Orifice Size	1/2"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cv	4.3	4.3	6.7	13	22	30	48
Media	Water						
Max Operating Pressure	200 psi						
Min Operating Pressure	7 psi						
Voltage ($\pm 10\%$)	110/120 VAC, 50/60 Hz						
Power Consumption	8 Watts						
Holding Amps (VA)	0.110 (14)						
Inrush Amps (VA)	0.330 (40)						
Max Cycles per Minute**	15						
Insulation	Class H 356°F (180°C)						
Min Response	25 to 100 ms						
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C)						
Lubrication	Not required						
Protection	NEMA 4/4X Encapsulated						
Connection	18mm (DIN 43650A) terminal						
Construction	Lead-free brass body, EPDM rubber seal(s)						
Life Cycle	1 Million						
Agency Approvals*	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized						

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



71 Series Water Valves (Brass)

712 Normally Open Water Valves							
Model	NS712YH16C9CG1	NS712YH16C9DG1	NS712YH16C9EG5	NS712YH16C9FG9	NS712YH16C9GJ2	NS712YH16C9HJ5	NS712YH16C9JJ7
Price	\$-06j3x:	\$-06j3y:	\$-06j3z:	\$-06j3j:	\$-06j3e:	\$-06j3f:	\$-06j3l:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.76	1.73	2.15	3.25	6.84	6.32	9.74
Valve Type	2-Ports (2-way), 2-position						
Acting	Piloted diaphragm, normally open						
Inlet/Outlet Port Size	3/8" FNPT	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4" FNPT	1-1/2" FNPT	2" FNPT
Orifice Size	1/2"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cv	4.3	4.3	6.7	13	22	30	48
Media	Water						
Max Operating Pressure	150 psi						
Min Operating Pressure	7 psi						
Voltage ($\pm 10\%$)	24VDC						
Power Consumption	9 Watts						
Holding Amps (VA)	0.375						
Inrush Amps (VA)	0.375						
Max Cycles per Minute**	15						
Insulation	Class H 356°F (180°C)						
Min Response	38 to 150 ms						
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 176°F (80°C)						
Lubrication	Not required						
Protection	NEMA 4/4X Encapsulated						
Connection	18mm (DIN 43650A) terminal						
Construction	Lead-free brass body, EPDM rubber seal(s)						
Life Cycle	1 Million						
Agency Approvals*	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized						

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



201 Series Water Valves (Nylon 6)



GC Valves 201 Series water valves are an excellent choice for potable water applications where supply pressure can drop to zero, such as emptying a tank. These valves are certified to NSF/ANSI 61 and have Nylon 6 bodies and NSF approved EPDM diaphragms. Ported for 3/8, 1/2 or 3/4 inch NPT, valves are available with either 120VAC, 24VAC or 24VDC solenoids.

Features

- 2-Ports (2-way), 2-position
- Normally closed (N.C.) configuration
- Piloted diaphragm operator
- Zero differential action
- 18mm (DIN 43650A) style wiring plug
- 3/8", 1/2" or 3/4" NPT ports
- 120VAC, 24VAC or 24VDC solenoids
- Made in the USA



**Made
in the
USA**



Also, see our website
www.AutomationDirect.com
for a variety of fitting options

201 Series Water Valve								
Model	NS201YF02CPCG4	NS201YF02CPEG5	NS201YF24CPCG4	NS201YF24CPEG4	NS201YF24CPEG5	NS201YF16CPCG4	NS201YF16CPEG4	NS201YF16CPEG5
Price	\$,05kp,:	\$05kq0:	\$05kq3:	\$05kq4:	\$05kq5:	\$.05kp]:	\$.05kp[:	\$05kp_:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.0	1.1	1.0	1.0	1.1	1.0	1.0	1.1
Valve Type	2-Ports (2-way), 2-position							
Acting	Piloted diaphragm, normally closed							
Port Size	1/2" FNPT	3/4" FNPT	3/8" FNPT	1/2" FNPT	3/4" FNPT	3/8" FNPT	1/2" FNPT	3/4" FNPT
Orifice Size	5/8"	3/4"	5/8"	5/8"	3/4"	5/8"	5/8"	3/4"
Cv	4.3	6.7	4.3	4.3	6.7	4.3	4.3	6.7
Media	Water							
Pressure Range	0-100 psi	0-100 psi	0-100 psi	0-100 psi	0-100 psi	0-90 psi	0-90 psi	0-90 psi
Voltage (± 10%)	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz	24VDC	24VDC	24VDC
Inrush AC	54VA					-		
Power Consumption	10W							
Max Cycles per Minute**	15							
Insulation	Class N (200°C - 392°F)							
Min Response	25-100 ms					38-150 ms		
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 295°F (146.1°C)							
Lubrication	Not required							
Protection	NEMA 4/4X Encapsulated							
Connection	18mm (DIN 43650A) terminal							
Construction	Nylon 6 plastic body; NSF Approved EPDM seals; Stainless Steel pilot orifice							
Life Cycle	1 Million							
Agency Approvals*	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized							

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



201 Series Water Valves (Stainless Steel)



GC Valves 201 Series water valves are an excellent choice for potable water applications where supply pressure can drop to zero, such as emptying a tank. These valves are certified to NSF/ANSI 61 and have 316 stainless steel bodies and NSF approved EPDM diaphragms. Ported for 1/2, 3/4, 1, 1-1/4 or 1-1/2 inch NPT, valves are available with either 120VAC, 24VAC or 24VDC solenoids.

Features

- 2-Ports (2-way), 2-position
- Normally closed (N.C.) configuration
- Piloted diaphragm operator
- Zero differential action
- 18mm (DIN 43650A) style wiring plug
- 1/2", 3/4", 1", 1-1/4" or 1-1/2" NPT ports
- 120VAC, 24VAC or 24VDC solenoids
- Made in the USA



**Made
in the
USA**

Also, see our website
www.AutomationDirect.com
for a variety of fitting options

201 Series Water Valves							
Model	NS201YF02C7DG4	NS201YF02C7EG5	NS201YF02C7EG9	NS201YF02C7GJ2	NS201YF02C7HJ2	NS201YF24C7DG4	NS201YF24C7EG5
Price	\$;05kp!:	\$05kp?:	\$-045i7:	Retired	\$-045i9:	\$05kp#:	\$05kq2:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.9	2.0	4.0	6.5	6.3	1.9	2.0
Valve Type	2-Ports (2-way), 2-position						
Acting	Piloted diaphragm, normally closed						
Port Size	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4" FNPT	1-1/2" FNPT	1/2" FNPT	3/4" FNPT
Orifice Size	5/8"	3/4"	1"	1-1/4"	1-1/4"	5/8"	3/4"
Cv	4.3	6.7	11.0	18.0	23.0	4.3	6.7
Media	Water						
Pressure Range	0-100 psi	0-100 psi	0-100 psi	0-100 psi	0-100 psi	0-100 psi	0-100 psi
Voltage (± 10%)	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz
Inrush AC	54VA						
Power Consumption	10W						
Max Cycles per Minute**	15						
Insulation	Class N (200°C - 392°F)						
Min Response	25-100 ms						
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 295°F (146.1°C)						
Lubrication	Not required						
Protection	NEMA 4/4X Encapsulated						
Connection	18mm (DIN 43650A) terminal						
Construction	316 Stainless steel body; NSF Approved EPDM seals; Stainless Steel orifice						
Life Cycle	1 Million						
Agency Approvals	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized						

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



201 Series Water Valves (Stainless Steel) Cont.

201 Series Water Valves Cont.					
Model	NS201YF16C7DG4	NS201YF16C7EG5	NS201YF16C7FG9	NS201YF16C7GJ2	NS201YF16C7HJ2
Price	\$05kq1:	\$05kpz:	\$-045ia:	\$-045ib:	\$-045i2:
Drawing Link	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.9	2.0	4.0	6.5	6.3
Valve Type	2-Ports (2-way), 2-position				
Acting	Piloted diaphragm, normally closed				
Port Size	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4" FNPT	1-1/2" FNPT
Orifice Size	5/8"	3/4"	1"	1-1/4"	1-1/4"
Cv	4.3	6.7	11.0	18.0	23.0
Media	Water				
Pressure Range	0-90 psi	0-90 psi	0-100 psi	0-100 psi	0-100 psi
Voltage (± 10%)	24VDC	24VDC	24VDC	24VDC	24VDC
Inrush AC	-				
Power Consumption	10W				
Max Cycles per Minute**	15				
Insulation	Class N (200°C - 392°F)				
Min Response	38-150 ms				
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 295°F (146.1°C)				
Lubrication	Not required				
Protection	NEMA 4/4X Encapsulated				
Connection	18mm (DIN 43650A) terminal				
Construction	316 Stainless steel body; NSF Approved EPDM seals; Stainless Steel orifice				
Life Cycle	1 Million				
Agency Approvals	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized				

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



201 Series Water Valve Accessories

201 Series Water Valve Accessories				
Kit Photo	Part No.	Description	Price	Weight (lbs)
	<u>KS201AF02G4-NSF</u>	GC Valves rebuild kit, for use with NS201 series AC valves ending CG4 and DG4, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, connecting spring, body o-ring and operator o-ring.	\$;-1j[g:	0.4
	<u>KS201AF15G4-NSF</u>	GC Valves rebuild kit, for use with NS201 series DC valves ending CG4 and DG4, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, connecting spring, body o-ring and operator o-ring.	\$;-1j[h:	0.4
	<u>KS201AF02G5-NSF</u>	GC Valves rebuild kit, for use with NS201 series AC valves ending EG5, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, connecting spring, body o-ring and operator o-ring.	\$;-1j[j:	0.4
	<u>KS201AF15G5-NSF</u>	GC Valves rebuild kit, for use with NS201 series DC valves ending EG5, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, connecting spring, body o-ring and operator o-ring.	\$;-1j[k:	0.4



201 Series Water Valve Accessories

201 Series Water Valve Accessories				
Kit Photo	Part No.	Description	Price	Weight (lbs)
	<u>KS201AF02G9-NSF</u>	GC Valves rebuild kit, for use with NS201 series AC valves ending G9, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, plunger connecting spring, body O-rings and operator O-ring.	\$--045ij:	0.4
	<u>KS201AF02J2-NSF</u>	GC Valves rebuild kit, for use with NS201 series AC valves ending J2, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, plunger connecting spring, body O-rings and operator O-ring.	\$-045ik:	0.4
	<u>KS201AF15G9-NSF</u>	GC Valves rebuild kit, for use with NS201 series DC valves ending G9, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, plunger connecting spring, body O-rings and operator O-ring.	\$--045il:	0.4
	<u>KS201AF15J2-NSF</u>	GC Valves rebuild kit, for use with NS201 series DC valves ending J2, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, plunger connecting spring, body O-rings and operator O-ring.	\$-045in:	0.4



301 Series Water Valves (Stainless Steel)



NS301YF24C3BC9
Valve Shown

GC Valves 301 Series water valves are an excellent choice for potable water applications up to 400psi. Valves have 303 stainless steel bodies with 1/4 inch NPT ports. They are available with three orifice sizes and solenoid voltages of 120VAC, 24VAC or 24VDC solenoids.

Features

- 2-Ports (2-way), 2-position
- Normally closed (N.C.) configuration
- Direct acting operator
- Zero differential action
- 18mm (DIN 43650A) style wiring plug
- 1/4" NPT ports
- 120VAC, 24VAC or 24VDC solenoids
- Made in the USA



Also, see our website
www.AutomationDirect.com
for a variety of fitting options



Certified to
NSF/ANSI 61



**Made
in the
USA**

301 Series Water Valves									
Model	NS301YF02C3BE7	NS301YF02C3BD5	NS301YF02C3BC9	NS301YF24C3BE7	NS301YF24C3BD5	NS301YF24C3BC9	NS301YF16C3BE7	NS301YF16C3BD5	NS301YF16C3BC9
Price	\$,-01j]!:	\$,-01j]#:	\$,-01j]_:	\$,-01j]3:	\$,-01j]2:	\$,-01j]1:	\$,-01j]0:	\$,-01j],:	\$,-01j]?:
Weight (lbs)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Valve Type	2-Ports (2-way), 2-position								
Acting	Direct acting, normally closed								
Port Size	1/4" FNPT	1/4" FNPT	1/4" FNPT	1/4" FNPT	1/4" FNPT	1/4" FNPT	1/4" FNPT	1/4" FNPT	1/4" FNPT
Orifice Size	1/4"	1/8"	3/32"	1/4"	1/8"	3/32"	1/4"	1/8"	3/32"
Cv	0.85	0.36	0.21	0.85	0.36	0.21	0.85	0.36	0.21
Media	Water								
Pressure Range	0-50 psi	0-200 psi	0-400 psi	0-50 psi	0-200 psi	0-400 psi	0-20 psi	0-140 psi	0-200 psi
Voltage (± 10%)	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz	24VDC	24VDC	24VDC
Inrush AC	54VA						-		
Power Consumption	10W	10W	10W	10W	10W	10W	10W	10W	10W
Max Freq	Cannot be used in PWM (pulse width modulation) applications								
Insulation	Class N (200°C - 392°F)								
Min Response	5-15 ms						8-23 ms		
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 295°F (146.1°C)								
Lubrication	Not required								
Protection	NEMA 4/4X Encapsulated								
Connection	18mm (DIN 43650A) terminal								
Construction	303 Stainless steel body; NSF Approved EPDM seals; Stainless Steel orifice								
Life Cycle	5 Million								
Agency Approvals	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized								

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

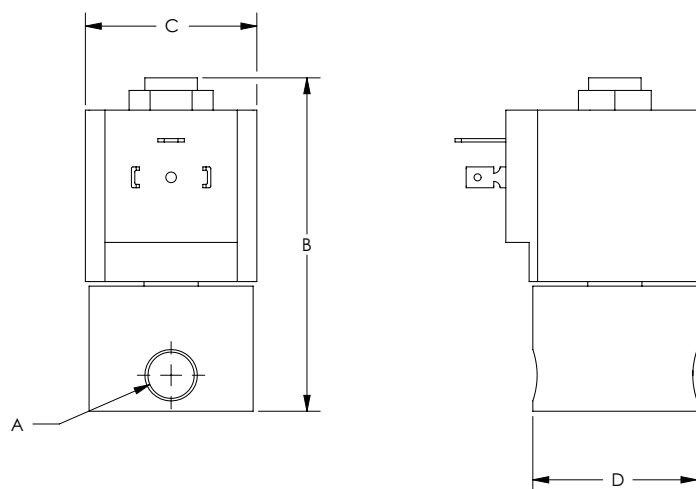


301 Series Water Valves (Stainless Steel)

Dimensions

inches [mm]

301 Series Water Valve Dimensions				
Part No.	A	B	C	D
<u>NS301YF02C3BE7</u>	1/4 NPT	3.15 [80.0]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF02C3BD5</u>	1/4 NPT	3.15 [80.0]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF02C3BC9</u>	1/4 NPT	3.15 [80.0]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF24C3BE7</u>	1/4 NPT	3.15 [80.0]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF24C3BD5</u>	1/4 NPT	3.15 [80.0]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF24C3BC9</u>	1/4 NPT	3.15 [80.0]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF16C3BE7</u>	1/4 NPT	3.22 [81.8]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF16C3BD5</u>	1/4 NPT	3.22 [81.8]	1.62 [41.1]	1.55 [39.4]
<u>NS301YF16C3BC9</u>	1/4 NPT	3.22 [81.8]	1.62 [41.1]	1.55 [39.4]



See our website www.AutomationDirect.com for complete Engineering drawings.



301 Series Water Valve Accessories

301 Series Water Valve Accessories				
<i>Kit Photo</i>	<i>Part No.</i>	<i>Description</i>	<i>Price</i>	<i>Weight (lbs)</i>
	<u>KS301AF02E7-NSF</u>	GC Valves rebuild kit, for use with NS301 series valves ending BE7, includes plunger-seat disc-spring assembly, plunger tube, operator o-ring and body o-ring.	\$;-1j[4:	0.3
	<u>KS301AF02C3-NSF</u>	GC Valves rebuild kit, for use with NS301 series valves ending BC9 and BD5, includes plunger-seat disc-spring assembly, plunger tube, operator o-ring and body o-ring.	\$;-1j[6:	0.3



211 Series Water Valves (Nylon 6)



GC Valves 211 Series water valves are an excellent choice for potable water applications. These valves are certified to NSF/ANSI 61 and have Nylon 6 bodies and NSF approved EPDM diaphragms. Ported for 3/8, 1/2 or 3/4 inch NPT, valves are available with either 120VAC, 24VAC or 24VDC solenoids.

Features

- 2-Ports (2-way), 2-position
- Normally closed (N.C.) configuration
- Piloted diaphragm operator
- 18mm (DIN 43650A) style wiring plug
- 3/8", 1/2" or 3/4" NPT ports
- 120VAC, 24VAC or 24VDC solenoids
- Made in the USA



Certified to
NSF/ANSI 61



Made
in the
USA

Also, see our website
www.AutomationDirect.com
for a variety of fitting options

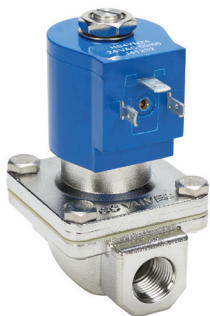
211 Series Water Valves								
Model	NS211YF02CPDG4	NS211YF02CPEG5	NS211YF24CPCG4	NS211YF24CPDG4	NS211YF24CPEG5	NS211YF16CPCG4	NS211YF16CPDG4	NS211YF16CPEG5
Price	\$05kq8:	\$05kq9:	\$05kqh:	\$-05kqi:	\$-05kqj:	\$05kqc:	\$05kqd:	\$05kqe:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	0.9	1.0	0.9	0.9	1.0	0.9	0.9	1.0
Valve Type	2-Ports (2-way), 2-position							
Acting	Pilot diaphragm, normally closed							
Port Size	1/2" FNPT	3/4" FNPT	3/8" FNPT	1/2" FNPT	3/4" FNPT	3/8" FNPT	1/2" FNPT	3/4" FNPT
Orifice Size	5/8"	3/4"	5/8"	5/8"	3/4"	5/8"	5/8"	3/4"
Cv	4.3	6.7	4.3	4.3	6.7	4.3	4.3	6.7
Media	Water							
Pressure Range	4-150 psi	4-150 psi	4-150 psi	4-150 psi	4-150 psi	4-100 psi	4-100 psi	4-100 psi
Voltage (± 10%)	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz	24VDC	24VDC	24VDC
Inrush AC	40VA					-		
Power Consumption	8W					10W		
Max Cycles per Minute**	15							
Insulation	Class N (200°C - 392°F)							
Min Response	25-100 ms					38-150 ms		
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 295°F (146.1°C)							
Lubrication	Not required							
Protection	NEMA 4/4X Encapsulated							
Connection	18mm (DIN 43650A) terminal							
Construction	Nylon 6 plastic body; NSF Approved EPDM seals; Stainless Steel pilot orifice							
Life Cycle	1 Million							
Agency Approvals	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized							

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



211 Series Water Valves (Stainless Steel)



GC Valves 211 Series water valves are an excellent choice for potable water applications. These valves are certified to NSF/ANSI 61 and have 316 stainless steel bodies and NSF approved EPDM diaphragms. Ported for 1/2, 3/4, 1, 1-1/4 or 1-1/2 inch NPT, valves are available with either 120VAC, 24VAC or 24VDC solenoids.

Features

- 2-Ports (2-way), 2-position
- Normally closed (N.C.) configuration
- Piloted diaphragm operator
- 18mm (DIN 43650A) style wiring plug
- 1/2", 3/4", 1", 1-1/4", 1-1/2" or 2" NPT ports
- 120VAC, 24VAC or 24VDC solenoids
- Made in the USA



Also, see our website
www.AutomationDirect.com
for a variety of fitting options



Made in the USA

211 Series Water Valves								
Model	NS211YF02C7DG4	NS211YF02C7EG5	NS211YF02C7FG9	NS211YF02C7GJ2	NS211YF02C7HJ2	NS211YF02C7JJ2	NS211YF24C7DG4	NS211YF24C7EG5
Price	\$05kq6:	\$05kq7:	\$-045i3:	Retired	\$-045i5:	\$-045i6:	\$,05kqf:	\$05kqg:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.8	1.9	3.8	6.5	6.3	9.5	1.8	1.9
Valve Type	2-ports (2-way), 2-position							
Acting	Pilot diaphragm, normally closed							
Port Size	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4 FNPT	1-1/2" FNPT	2" FNPT	1/2" FNPT	3/4" FNPT
Orifice Size	5/8"	3/4"	1"	1-1/4"	1-1/4"	1-1/4"	5/8"	3/4"
Cv	4.3	6.7	13.0	19.0	25.0	28.0	4.3	6.7
Media	Water							
Pressure Range	4-150 psi	4-150 psi	5-150 psi	5-150 psi	5-150 psi	5-150 psi	4-150 psi	4-150 psi
Voltage (± 10%)	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	120/110 VAC 50/60 Hz	24VAC 50/60 Hz	24VAC 50/60 Hz
Inrush AC	40VA							
Power Consumption	8W							
Max Cycles per Minute**	15							
Insulation	Class N (200°C - 392°F)							
Min Response	25-100 ms							
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 295°F (146.1°C)							
Lubrication	Not required							
Protection	NEMA 4/4X Encapsulated							
Connection	18mm (DIN 43650A) terminal							
Construction	316 Stainless Steel body; NSF Approved EPDM seals; Stainless Steel orifice							
Life Cycle	1 Million							
Agency Approvals	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized							

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



211 Series Water Valves (Stainless Steel)

211 Series Water Valves						
Model	NS211YF16C7DG4	NS211YF16C7EG5	NS211YF16C7FG9	NS211YF16C7GJ2	NS211YF16C7HJ2	NS211YF16C7JJ2
Price	\$05kqa:	\$05kqb:	\$-045ic:	\$-045id:	\$-045ie:	\$,-045if:
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF
Weight (lbs)	1.8	1.9	3.8	6.5	6.3	9.5
Valve Type	2-ports (2-way), 2-position					
Acting	Pilot diaphragm, normally closed					
Port Size	1/2" FNPT	3/4" FNPT	1" FNPT	1-1/4 FNPT	1-1/2" FNPT	2" FNPT
Orifice Size	5/8"	3/4"	1"	1-1/4"	1-1/4"	1-1/4"
Cv	4.3	6.7	13.0	19.0	25.0	28.0
Media	Water					
Pressure Range	4-100 psi	4-100 psi	5-150 psi	5-150 psi	5-150 psi	5-150 psi
Voltage (± 10%)	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC
Inrush AC	-					
Power Consumption	10W		9W			
Max Cycles per Minute**	15					
Insulation	Class N (200°C - 392°F)					
Min Response	38-150 ms					
Temperature	32°F to 125°F (0°C to 51.7°C); Max. Fluid Temp. 295°F (146.1°C)					
Lubrication	Not required					
Protection	NEMA 4/4X Encapsulated					
Connection	18mm (DIN 43650A) terminal					
Construction	316 Stainless Steel body; NSF Approved EPDM seals; Stainless Steel orifice					
Life Cycle	1 Million					
Agency Approvals	NSF/ANSI - 61-G/NSF-372, CE, CSA, UL Recognized					

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

** Cannot be used in PWM (pulse width modulation) applications



211 Series Water Valve Accessories

211 Series Water Valve Accessories				
Kit Photo	Part No.	Description	Price	Weight (lbs)
	<u>KS211AF02G4-NSF</u>	GC Valves rebuild kit, for use with NS211 series AC valves ending CG4 and DG4, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, body o-ring and operator o-ring.	\$,-1j[8:	0.3
	<u>KS211AF15G4-NSF</u>	GC Valves rebuild kit, for use with NS211 series DC valves ending CG4 and DG4, includes diaphragm assembly, plunger-seat disc-spring assembly, plunger tube, body o-ring and operator o-ring.	\$,-1j[9:	0.3
	<u>KS211AF02G5-NSF</u>	GC Valves rebuild kit, for use with NS211 series AC valves ending EG5, includes diaphragm assembly, plunger assembly, plunger tube, plunger spring, body o-ring and operator o-ring.	\$,-1j[c:	0.3
	<u>KS211AF15G5-NSF</u>	GC Valves rebuild kit, for use with NS211 series DC valves ending EG5, includes diaphragm assembly, plunger-seat disc-spring assembly, plunger tube, body o-ring and operator o-ring.	\$,-1j[d:	0.3



211 Series Water Valve Accessories

211 Series Water Valve Accessories				
Kit Photo	Part No.	Description	Price	Weight (lbs)
	<u>KS211AF02G9-NSF</u>	GC Valves rebuild kit, for use with NS211 series AC valves ending G9, includes diaphragm assembly, diaphragm spring, plunger assembly, plunger tube, plunger spring, body O-rings and operator O-ring.	\$-45io:	0.4
	<u>KS211AF02J2-NSF</u>	GC Valves rebuild kit, for use with NS211 series AC valves ending J2, includes diaphragm assembly, diaphragm spring, plunger assembly, plunger tube, plunger spring, body O-rings and operator O-ring.	\$-45ig:	0.4
	<u>KS211AF15G9-NSF</u>	GC Valves rebuild kit, for use with NS211 series DC valves ending G9, includes diaphragm assembly, diaphragm spring, plunger assembly, plunger tube, plunger spring, body O-rings and operator O-ring.	\$-45ih:	0.4
	<u>KS211AF15J2-NSF</u>	GC Valves rebuild kit, for use with NS211 series DC valves ending J2, includes diaphragm assembly, diaphragm spring, plunger assembly, plunger tube, plunger spring, body O-rings and operator O-ring.	\$-45ii:	0.4



GCV Valves Replacement Coils

Water Valve Accessory Coils									
Coil Photo	Part No.	Voltage Rating	Power Rating	Insulation	Connection	Cable Length	Fits Valve Series	Price	Weight (lbs)
	<u>HS4YN02</u>	120VAC	10W	Class H: 180°C (356°F)	18mm (DIN 43650A) style wiring plug	N/A	S201, NS201, S301 and NS301 valves	\$,-1j[n]:	0.6
	<u>HS4YN04</u>	240VAC	10W	Class H: 180°C (356°F)	18mm (DIN 43650A) style wiring plug	N/A	S201, NS201, S301 and NS301 valves	\$,-1j[o]:	0.6
	<u>HS4YN24</u>	24VAC	10W	Class H: 180°C (356°F)	18mm (DIN 43650A) style wiring plug	N/A	S201, NS201, S301 and NS301 valves	\$,-1j[p]:	0.6
	<u>HS4YN16</u>	24VDC	10W	Class H: 180°C (356°F)	18mm (DIN 43650A) style wiring plug	N/A	S201, NS201, S211 DC, NS211 DC, S301 and NS301 valves	\$,-1j[q]:	0.6
	<u>HS4GN02A24</u>	120VAC	10W	Class H: 180°C (356°F)	1/2in conduit 24in 18AWG pigtail	24in	S201, NS201, S301 and NS301 valves	\$,-1j[s]:	0.6
	<u>HS4GN04A24</u>	240VAC	10W	Class H: 180°C (356°F)	1/2in conduit 24in 18AWG pigtail	24in	S201, NS201, S301 and NS301 valves	\$,-1j[t]:	0.6
	<u>HS4GN24A24</u>	24VAC	10W	Class H: 180°C (356°F)	1/2in conduit 24in 18AWG pigtail	24in	S201, NS201, S301 and NS301 valves	\$,-1j[u]:	0.6
	<u>HS4GN16A24</u>	24VDC	10W	Class H: 180°C (356°F)	1/2in conduit 24in 18AWG pigtail	24in	S201, NS201, S211 DC, NS211 DC, S301 and NS301 valves	\$,-1j[v]:	0.6
	<u>HS3YN02</u>	120VAC	8W	Class H: 180°C (356°F)	18mm (DIN 43650A) style wiring plug	N/A	S211, NS211 and NS71 valves	\$,-1j[x]:	0.5
	<u>HS3YN04</u>	240VAC	8W	Class H: 180°C (356°F)	18mm (DIN 43650A) style wiring plug	N/A	S211, NS211 and NS71 valves	\$,-1j[y]:	0.5
	<u>HS3YN24</u>	24VAC	8W	Class H: 180°C (356°F)	18mm (DIN 43650A) style wiring plug	N/A	S211, NS211 and NS71 valves	\$,-1j[z]:	0.5
	<u>HS3GN02A24</u>	120VAC	8W	Class H: 180°C (356°F)	1/2in conduit 24in 18AWG pigtail	24in	S211, NS211 and NS71 valves	\$,-1j[[]]:	0.5
	<u>HS3GN04A24</u>	240VAC	8W	Class H: 180°C (356°F)	1/2in conduit 24in 18AWG pigtail	24in	S211, NS211 and NS71 valves	\$,-1j[[]]:	0.5
	<u>HS3GN24A24</u>	24VAC	8W	Class H: 180°C (356°F)	1/2in conduit 24in 18AWG pigtail	24in	S211, NS211 and NS71 valves	\$,-1j[[]]:	0.5



GCV Valve Replacement Coils

GCV Valve Replacement Coils									
Coil Photo	Part No.	Voltage Rating	Power Rating	Insulation	Connection	Cable Length	Fits Valve Series	Price	Weight (lbs)
	<u>HS3GN16A24</u>	24VDC	9W	Class H: 180°C (356°F)	1/2in conduit w/ 18AWG pigtail	24in	S211, NS211 and NS71 valves	\$647v:	0.54
	<u>HS3YN16</u>	24VDC	9W	Class H: 180°C (356°F)	18mm DIN style wiring plug	N/A	S211, NS211 and NS71 valves	\$647u:	0.49


SPARTAN
 SCIENTIFIC

3516 Series Valves

Part no. **3516-6Q001-BAB3C-A**Part no. **3516-6Q001-BAB3B-A**

3516 series valves are 2-way, normally closed, solenoid diaphragm valves that offer the highest flow for overall size in their class. Low lead brass body and other wetted materials are suitable for potable water applications.

Features

- Diaphragm operator
- Low lead brass body
- Port sizes 1/4, 3/8 or 1/2 inch NPT
- 2-way, 2-position normally closed operation
- 24 VDC or 120 VAC (other voltage coils available)



See our website
www.AutomationDirect.com
 for a variety of cable options.

3516 Series Solenoid Valves											
Part No.	Price	Ports	Cv	Min Pressure	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
3516-6Q001-BAB3C-A	\$05xyn:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	4.5	10 psi	180 psi	24VDC	18mm DIN style wiring plug	1.05	PDF	PDF	PDF
3516-6Q001-BAB7C-A	\$05xyo:					120VAC		1.05	PDF		
3516-6Q001-BAC3C-A	\$05xyp:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)				24VDC		1.05	PDF		
3516-6Q001-BAC7C-A	\$;05y2]:					120VAC		1.05	PDF		
3516-6Q001-BAD3C-A	\$05xys:	1/2in female NPT inlet(s), 1/2in female NPT outlet(s)				24VDC		1.05	PDF		
3516-6Q001-BAD7C-A	\$;05y2[:					120VAC		1.05	PDF		
3516-6Q001-BAB3B-A	\$05xyu:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)				24VDC	1.05	PDF			
3516-6Q001-BAB7B-A	\$05y2_:					120VAC	1.05	PDF			
3516-6Q001-BAC3B-A	\$05xyx:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)				18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	24VDC	1.05	PDF		
3516-6Q001-BAC7B-A	\$05xyy:						120VAC	1.05	PDF		
3516-6Q001-BAD3B-A	\$05xyz:	24VDC					1.05	PDF			
3516-6Q001-BAD7B-A	\$;05xy]:	120VAC					1.05	PDF			


SPARTAN
SCIENTIFIC

3516, 3825 and 3827 Series Valve Accessories

- Spartan Series Replacement Coils for use with 3516 Series Valves and higher flow versions of 3825 and 3825 Series Valves
- A variety of voltages are available for use in any valve: 12VDC, 24VDC, 24VAC, 120VAC and 220VAC
- Coils offered with either 18mm DIN plug or 18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)

Part no. **38310-01206-A**Part no. **38315-01206-A**Part no. **3516-0B-0001**

See our website
www.AutomationDirect.com
for a variety of cable options.

3516 Series Valve Accessories

Part No.	Price	Description	Weight (lbs)	Drawing Link	Vendor Insert
<u>38310-01206-A</u>	\$5xyl:	Spartan solenoid coil, 12 VDC, 6.5W, 18mm DIN style wiring plug. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	N/A
<u>38310-02406-A</u>	\$5xy.:	Spartan solenoid coil, 24 VDC, 6.5W, 18mm DIN style wiring plug. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38310-02416-A</u>	\$5xy#:	Spartan solenoid coil, 24 VAC, 8.5 VA, 18mm DIN style wiring plug. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38310-12016-A</u>	\$5xy!:	Spartan solenoid coil, 120 VAC, 8.5 VA, 18mm DIN style wiring plug. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38310-22016-A</u>	\$5xy?:	Spartan solenoid coil, 220 VAC, 8.5 VA, 18mm DIN style wiring plug. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38315-01206-A</u>	\$5xy.:	Spartan solenoid coil, 12 VDC, 6.5W, 18in 22 AWG pigtail. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38315-02406-A</u>	\$5xz0:	Spartan solenoid coil, 24 VDC, 6.5W, 18in 22 AWG pigtail. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38315-02416-A</u>	\$5xz1:	Spartan solenoid coil, 24 VAC, 8.5 VA, 18in 22 AWG pigtail. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38315-12016-A</u>	\$5xz4:	Spartan solenoid coil, 120 VAC, 8.5 VA, 18in 22 AWG pigtail. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>38315-22016-A</u>	\$5xz5:	Spartan solenoid coil, 220 VAC, 8.5 VA, 18in 22 AWG pigtail. For use with 3516 series Spartan valves.	0.26	<u>PDF</u>	
<u>3516-0B-0001</u>	\$5y30:	Spartan diaphragm, replacement, NBR. For use with 3516 series Spartan valves.	0.10	N/A	<u>PDF</u>


SPARTAN
SCIENTIFIC

3580 Series Valves

Part no. **3580-060-8217C-A**Part no. **3580-060-8217B-A**

3580 series valves are 2-way, normally closed, diaphragm valves. The engineered composite body material and other wetted materials are suitable for potable water applications.

Features

- Diaphragm operator
- Glass reinforced Nylon body
- Port sizes 1/4, 3/8 or 1/2 inch NPT
- 2-way, 2-position normally closed operation
- 24 VDC or 120 VAC (other voltage coils available)



See our website
www.AutomationDirect.com
for a variety of cable options.

3580 Series Solenoid Valves											
Part No.	Price	Ports	Cv	Min Pressure	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
3580-060-8217C-A	\$5xz2:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	1.55	7 psi	150 psi	120VAC	11mm DIN style wiring plug	0.48	PDF	PDF	PDF
3580-060-8213C-A	\$5xz3:					24VDC		0.48	PDF		
3580-060-8227C-A	\$5xz7:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	1.95			120VAC		0.48	PDF		
3580-060-8223C-A	\$5xz8:					24VDC		0.48	PDF		
3580-060-8237C-A	\$5xz9:	1/2in female NPT inlet(s), 1/2in female NPT outlet(s)	2.45			120VAC		0.48	PDF		
3580-060-8233C-A	\$5xza:					24VDC		0.48	PDF		
3580-060-8217B-A	\$5xzb:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	1.55			120VAC	0.48	PDF			
3580-060-8213B-A	\$5xzc:					24VDC	0.48	PDF			
3580-060-8227B-A	\$5xzd:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	1.95			120VAC	18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.48	PDF		
3580-060-8223B-A	\$5xze:					24VDC		0.48	PDF		
3580-060-8237B-A	\$5xzf:	1/2in female NPT inlet(s), 1/2in female NPT outlet(s)	2.45			120VAC		0.48	PDF		
3580-060-8233B-A	\$5xzg:					24VDC		0.48	PDF		


SPARTAN
SCIENTIFIC

3580, 3525 & 3527 Series Valve Accessories

- Spartan Series Replacement Coils for use with 3580, 3525 and 3527 Series Valves
- A variety of voltages are available for use in any valve: 12VDC, 24VDC, 24VAC, 120VAC and 220VAC
- Coils offered with either 18mm DIN plug or 18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)

Part no. **38220-01206-A**Part no. **38225-01206-A**Part no. **3580-B1-0001**

See our website
www.AutomationDirect.com
for a variety of cable options.

3516 Series Valve Accessories

Part No.	Price	Description	Weight (lbs)	Drawing Link	Vendor Insert
<u>38220-01206-A</u>	\$5xzh:	Spartan solenoid coil, 12 VDC, 6.5W, 11mm DIN style wiring plug. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	N/A
<u>38220-02406-A</u>	\$-5xzi:	Spartan solenoid coil, 24 VDC, 6.5W, 11mm DIN style wiring plug. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38220-02416-A</u>	\$-5xzi:	Spartan solenoid coil, 24 VAC, 8.5 VA, 11mm DIN style wiring plug. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38220-12016-A</u>	\$5xzk:	Spartan solenoid coil, 120 VAC, 8.5 VA, 11mm DIN style wiring plug. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38220-22016-A</u>	\$-5xzl:	Spartan solenoid coil, 220 VAC, 8.5 VA, 11mm DIN style wiring plug. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38225-01206-A</u>	\$5xzn:	Spartan solenoid coil, 12 VDC, 6.5W, 18in 22 AWG pigtail. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38225-02406-A</u>	\$5xzo:	Spartan solenoid coil, 24 VDC, 6.5W, 18in 22 AWG pigtail. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38225-02416-A</u>	\$5xzp:	Spartan solenoid coil, 24 VAC, 8.5 VA, 18in 22 AWG pigtail. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38225-12016-A</u>	\$5xzq:	Spartan solenoid coil, 120 VAC, 8.5 VA, 18in 22 AWG pigtail. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>38225-22016-A</u>	\$5xzs:	Spartan solenoid coil, 220 VAC, 8.5 VA, 18in 22 AWG pigtail. For use with 3580, 3525 and 3527 series Spartan valves.	0.14	PDF	
<u>3580-B1-0001</u>	\$5xzy:	Spartan diaphragm, replacement, NBR. For use with 3580 series Spartan valves.	0.10	N/A	PDF


SPARTAN
 SCIENTIFIC

6100 Series Valves

Part no. **6100-6H001-AAB3C-A**Part no. **6100-6H001-AAB3B-A**

6100 series valves are 2-way, normally closed, direct acting inline valves. This space-saving design with a low lead brass body and other wetted materials is suitable for potable water applications.

Features

- Direct Acting Operator
- Low lead brass body
- Port size 1/4 inch NPT
- 2-way, 2-position normally closed operation
- 24 VDC or 120 VAC (other voltage coils available)



See our website
www.AutomationDirect.com
 for a variety of cable options.

6100 Series Solenoid Valves										
Part No.	Price	Ports	Cv	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
6100-6H001-AAB3C-A	\$5xzt:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	0.24	200 psi	24VDC	18mm DIN style wiring plug	0.50	PDF	PDF	PDF
6100-6J001-AAB3C-A	\$5xzu:		0.31	120 psi			0.50	PDF		
6100-6H001-AAB3B-A	\$5xzv:		0.24	200 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.50	PDF		
6100-6J001-AAB3B-A	\$5xzx:		0.31	120 psi			0.50	PDF		
6100-6H001-AAB7C-A	\$5xzz:		0.24	255 psi	120VAC	18mm DIN style wiring plug	0.50	PDF		
6100-6J001-AAB7C-A	\$5xzj:		0.31	150 psi			0.50	PDF		
6100-6H001-AAB7B-A	\$5xz[:		0.24	255 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.50	PDF		
6100-6J001-AAB7B-A	\$5xz_:		0.31	150 psi			0.50	PDF		


SPARTAN
SCIENTIFIC

6200 Series Valves

Part no. **6200-650-AAC7C-A**Part no. **6200-650-AAC7B-A**

6200 series valves are 2-way, normally closed, direct acting valves. The engineered composite body material and other wetted materials are suitable for potable water applications.

Features

- Direct Acting Operator
- Glass reinforced Nylon body
- Port sizes 1/8, 1/4 and 3/8 inch NPT
- 2-way, 2-position normally closed operation
- 24 VDC or 120 VAC (other voltage coils available)



See our website
www.AutomationDirect.com
for a variety of cable options.

6100 Series Solenoid Valves

Part No.	Price	Ports	Cv	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
6200-650-AAC7C-A	\$5xz#:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	0.31	250 psi	120VAC	18mm DIN style wiring plug	0.30	PDF	PDF	PDF
6200-650-AAC3C-A	\$;5xz!:			150 psi	24VDC		0.30	PDF		
6200-660-AAA7C-A	\$5xz?:	1/8in female NPT inlet(s), 1/8in female NPT outlet(s)	0.52	75 psi	120VAC		0.30	PDF		
6200-660-AAA3C-A	\$;5xz.:			80 psi	24VDC		0.30	PDF		
6200-670-AAB7C-A	\$;5x]0:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	0.61	50 psi	120VAC		0.30	PDF		
6200-670-AAB3C-A	\$;5x]1:				24VDC		0.30	PDF		
6200-680-AAC7C-A	\$;5x]2:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	0.72	40 psi	120VAC		0.30	PDF		
6200-680-AAC3C-A	\$;5x]3:			30 psi	24VDC		0.30	PDF		
6200-650-AAC7B-A	\$;5x]4:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	0.31	250 psi	120VAC	18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.30	PDF	PDF	PDF
6200-650-AAC3B-A	\$;5x]5:			150 psi	24VDC		0.30	PDF		
6200-660-AAA7B-A	\$;5x]6:	1/8in female NPT inlet(s), 1/8in female NPT outlet(s)	0.52	75 psi	120VAC		0.30	PDF		
6200-660-AAA3B-A	\$;5x]7:			80 psi	24VDC		0.30	PDF		
6200-670-AAB7B-A	\$;5x]8:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	0.61	50 psi	120VAC		0.30	PDF		
6200-670-AAB3B-A	\$;5x]9:				24VDC		0.30	PDF		
6200-680-AAC7B-A	\$;5x]a:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	0.72	40 psi	120VAC		0.30	PDF		
6200-680-AAC3B-A	\$;5x]b:			30 psi	24VDC		0.30	PDF		


SPARTAN
SCIENTIFIC

6222 Series Valves

Part no. **6222-6J001-AAB3C-A**Part no. **6222-6J001-AAB3B-A**

6222 series valves are 2-way, normally closed, direct acting valves. The low lead brass body material and other wetted materials are suitable for potable water applications.

Features

- Direct acting operator
- Low lead brass body
- Port sizes 1/8, 1/4 and 3/8 inch NPT
- 2-way, 2-position normally closed operation
- 24 VDC or 120 VAC (other voltage coils available)



See our website
www.AutomationDirect.com
for a variety of cable options.

6222 Series Solenoid Valves										
Part No.	Price	Ports	Cv	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
6222-6J001-AAB3C-A	\$;5xjc:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	0.31	150 psi	24VDC	18mm DIN style wiring plug	0.57	PDF	PDF	PDF
6222-6K001-AAB3C-A	\$;5xd:		0.52	90 psi			0.57	PDF		
6222-6L001-AAB3C-A	\$;5xe:		0.61	60 psi			0.57	PDF		
6222-6M001-AAB3C-A	\$;5xf:		0.72	40 psi			0.57	PDF		
6222-6J001-AAB3B-A	\$;5xg:		0.31	150 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.57	PDF		
6222-6K001-AAB3B-A	\$;5xh:		0.52	90 psi			0.57	PDF		
6222-6L001-AAB3B-A	\$;5xi:		0.61	60 psi			0.57	PDF		
6222-6M001-AAB3B-A	\$;5xjj:		0.72	40 psi			0.57	PDF		
6222-6J001-AAA3C-A	\$;5xk:	1/8in female NPT inlet(s), 1/8in female NPT outlet(s)	0.31	150 psi		18mm DIN style wiring plug	0.57	PDF		
6222-6K001-AAA3C-A	\$;5xl:		0.52	90 psi			0.57	PDF		
6222-6L001-AAA3C-A	\$;5xn:		0.61	60 psi			0.57	PDF		
6222-6M001-AAA3C-A	\$;5xo:		0.72	40 psi			0.57	PDF		
6222-6J001-AAA3B-A	\$;5xp:		0.31	150 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.57	PDF		
6222-6K001-AAA3B-A	\$;5xq:		0.52	90 psi			0.57	PDF		
6222-6L001-AAA3B-A	\$;5xs:		0.61	60 psi			0.57	PDF		
6222-6M001-AAA3B-A	\$;5xt:		0.72	40 psi			0.57	PDF		


SPARTAN
SCIENTIFIC

6222 Series Valves

6222 Series Solenoid Valves										
Part No.	Price	Ports	Cv	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
6222-6J001-AAC3C-A	\$;5x]u:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	0.31	150 psi	24VDC	18mm DIN style wiring plug	0.57	PDF	PDF	PDF
6222-6K001-AAC3C-A	\$;5x]v:		0.52	90 psi			0.57	PDF		
6222-6L001-AAC3C-A	\$;5x]x:		0.61	60 psi			0.57	PDF		
6222-6M001-AAC3C-A	\$;5x]y:		0.72	40 psi			0.57	PDF		
6222-6J001-AAC3B-A	\$;5x]z:		0.31	150 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.57	PDF		
6222-6K001-AAC3B-A	\$;5x]]:		0.52	90 psi			0.57	PDF		
6222-6L001-AAC3B-A	\$;5x][:		0.61	60 psi			0.57	PDF		
6222-6M001-AAC3B-A	\$;5x]_:		0.72	40 psi			0.57	PDF		
6222-6J001-AAB7C-A	\$;5x]#:	1/4in female NPT inlet(s), 1/4in female NPT outlet(s)	0.31	270 psi	120VAC	18mm DIN style wiring plug	0.57	PDF	PDF	PDF
6222-6K001-AAB7C-A	\$;5x]]:		0.52	125 psi			0.57	PDF		
6222-6L001-AAB7C-A	\$;5x]?:		0.61	80 psi			0.57	PDF		
6222-6M001-AAB7C-A	\$;5x]].:		0.72	50 psi			0.57	PDF		
6222-6J001-AAB7B-A	\$;5x]0:		0.31	270 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.57	PDF		
6222-6K001-AAB7B-A	\$;5x]1:		0.52	125 psi			0.57	PDF		
6222-6L001-AAB7B-A	\$;5x]2:		0.61	80 psi			0.57	PDF		
6222-6M001-AAB7B-A	\$;5x]3:		0.72	50 psi			0.57	PDF		


SPARTAN
 SCIENTIFIC

6222 Series Valves

6222 Series Solenoid Valves										
Part No.	Price	Ports	Cv	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
6222-6J001-AAA7C-A	\$;5x[4:	1/8in female NPT inlet(s), 1/8in female NPT outlet(s)	0.31	270 psi	120VAC	18mm DIN style wiring plug	0.57	PDF	PDF	PDF
6222-6K001-AAA7C-A	\$;5x[5:		0.52	125 psi			0.57	PDF		
6222-6L001-AAA7C-A	\$;5x[6:		0.61	80 psi			0.57	PDF		
6222-6M001-AAA7C-A	\$;5x[7:		0.72	50 psi			0.57	PDF		
6222-6J001-AAA7B-A	\$;5x[8:		0.31	270 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.57	PDF		
6222-6K001-AAA7B-A	\$;5x[9:		0.52	125 psi			0.57	PDF		
6222-6L001-AAA7B-A	\$;5x[a:		0.61	80 psi			0.57	PDF		
6222-6M001-AAA7B-A	\$;5x[b:		0.72	50 psi			0.57	PDF		
6222-6J001-AAC7C-A	\$;5x[c:	3/8in female NPT inlet(s), 3/8in female NPT outlet(s)	0.31	270 psi		18mm DIN style wiring plug	0.57	PDF		
6222-6K001-AAC7C-A	\$;5x[d:		0.52	125 psi			0.57	PDF		
6222-6L001-AAC7C-A	\$;5x[e:		0.61	80 psi			0.57	PDF		
6222-6M001-AAC7C-A	\$;5x[f:		0.72	50 psi			0.57	PDF		
6222-6J001-AAC7B-A	\$;5x[g:		0.31	270 psi		18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.57	PDF		
6222-6K001-AAC7B-A	\$;5x[h:		0.52	125 psi			0.57	PDF		
6222-6L001-AAC7B-A	\$;-5x[i:		0.61	80 psi			0.57	PDF		
6222-6M001-AAC7B-A	\$;-5x[j:		0.72	50 psi			0.57	PDF		


SPARTAN
SCIENTIFIC

6100, 6200, 6222 Series Valve Accessories

- Spartan Series Replacement Coils for use with 6100, 6200 and 6222 Series Valves
- A variety of voltages are available for use in any valve: 12VDC, 24VDC, 24VAC, 120VAC and 220VAC
- Coils offered with either 18mm DIN plug or 18in pigtail (PVC 22AWG multistrand copper wire 300 Volt)

Part no. **4A000-01201-A**Part no. **4A001-01201-A**

See our website
www.AutomationDirect.com
for a variety of cable options.

6100, 6200, 6222 Series Valve Accessories				
Part No.	Price	Description	Weight (lbs)	Drawing Link
<u>4A000-01201-A</u>	\$;5x[k:	Spartan solenoid coil, 12 VDC, 10W, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A000-02401-A</u>	\$;-5x[l:	Spartan solenoid coil, 24 VDC, 10W, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A000-02411-A</u>	\$;5x[n:	Spartan solenoid coil, 24 VAC, 11.5 VA, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A000-12011-A</u>	\$;5x[o:	Spartan solenoid coil, 120 VAC, 11.5 VA, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A000-22011-A</u>	\$;5x[p:	Spartan solenoid coil, 220 VAC, 11.5 VA, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A001-01201-A</u>	\$;5x[q:	Spartan solenoid coil, 12 VDC, 10W, 18in 22AWG pigtail. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A001-02401-A</u>	\$;5x[s:	Spartan solenoid coil, 24 VDC, 10W, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A001-02411-A</u>	\$;5x[v:	Spartan solenoid coil, 24 VAC, 11.5 VA, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A001-12011-A</u>	\$;5x[x:	Spartan solenoid coil, 120 VAC, 11.5 VA, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>
<u>4A001-22011-A</u>	\$;5x[y:	Spartan solenoid coil, 220 VAC, 11.5 VA, 18mm DIN style wiring plug. For use with 6100, 6200 and 6222 series Spartan valves.	<u>0.30</u>	<u>PDF</u>


SPARTAN
SCIENTIFIC

3825 Series Valves

Part no. [3825-66-B20Y-A](#)Part no. [3825-66-B20G-A](#)

3825 series valves are 2-way, normally closed, direct acting valves. The engineered composite body material and other wetted materials are suitable for potable water applications.

Features

- Direct acting operator
- Glass reinforced Nylon body
- Port size 1/4 push to connect tubing
- 2-way, 2-position normally closed operation
- 24 VDC or 120 VAC (other voltage coils available)



See our website
www.AutomationDirect.com
for a variety of cable options.

3825 Series Solenoid Valves										
Part No.	Price	Ports	Cv	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
3825-66-B20Y-A	\$,;5x[t:	1/4in push-to-connect tubing inlet(s), 1/4in push-to-connect tubing outlet(s)	0.24	150 psi	120VAC	11mm DIN style wiring plug	0.23	PDF	PDF	PDF
3825-66-B20U-A	\$,;5x[u:				24VDC		0.23	PDF		
3825-67-B20Y-A	\$,;5x[z:		0.31	75 psi	120VAC	18mm DIN style wiring plug	0.23	PDF		
3825-67-B20U-A	\$,;5x[[:			60 psi	24VDC		0.23	PDF		
3825-66-B20G-A	\$,;5x[[:		0.24	150 psi	120VAC	18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.23	PDF		
3825-66-B20C-A	\$,;5x[_:				24VDC		0.23	PDF		
3825-67-B20G-A	\$,;5x[#:		0.31	75 psi	120VAC		0.23	PDF		
3825-67-B20C-A	\$,;5x[!:			60 psi	24VDC		0.23	PDF		


SPARTAN
SCIENTIFIC

3827 Series Valves

Part no. [3827-670-AA87C-A](#)Part no. [3827-670-AA87B-A](#)

3825 series valves are 2-way, normally closed, direct acting valves. The engineered composite body material and other wetted materials are suitable for potable water applications.

Features

- Direct acting operator
- Glass reinforced Nylon body
- Port size 1/8 inch NPT
- 2-way, 2-position normally closed operation
- 24 VDC or 120 VAC (other voltage coils available)



See our website
www.AutomationDirect.com
for a variety of cable options.

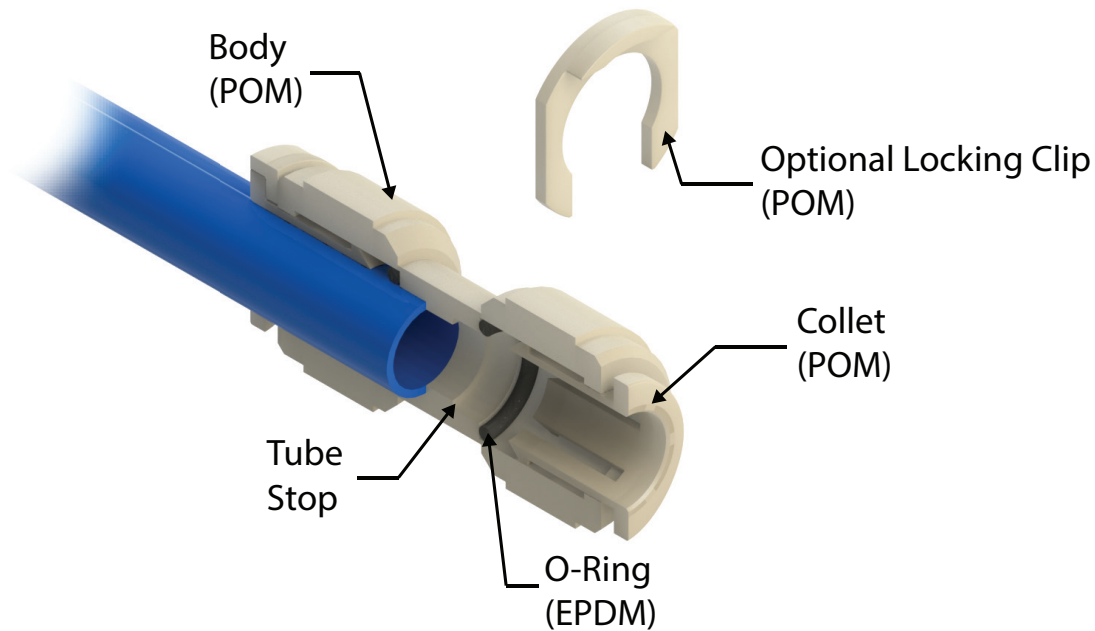
3827 Series Solenoid Valves										
Part No.	Price	Ports	Cv	Max Pressure	Operating Voltage	Connection	Weight (lbs)	Drawing Link	Vendor Specs	Vendor Application and Install Guide
3827-670-AA87C-A	\$;5x{?:	1/8in female NPT inlet(s), 1/8in female NPT outlet(s)	0.24	200 psi	120VAC	11mm DIN style wiring plug	0.22	PDF	PDF	PDF
3827-670-AA83C-A	\$;:5x{.:				24VDC		0.22	PDF		
3827-680-AA87C-A	\$5x_0:		0.31	75 psi	120VAC		0.22	PDF		
3827-680-AA83C-A	\$5x_1:			60 psi	24VDC		0.22	PDF		
3827-670-AA87B-A	\$5x_2:		0.24	200 psi	120VAC	18in pigtail (PVC 22AWG multi-strand copper wire 300 Volt)	0.22	PDF		
3827-670-AA83B-A	\$5x_3:				24VDC		0.22	PDF		
3827-680-AA87B-A	\$5x_4:		0.31	75 psi	120VAC		0.22	PDF		
3827-680-AA83B-A	\$5x_5:			60 psi	24VDC		0.22	PDF		

HydroMode™ Potable Water Push-to-Connect Fittings

HydroMode push-to-connect fittings are designed to work with potable water and beverages. Installing or removing flexible tubing is quick and easy. All fittings are made of NSF approved materials with NSF-51® and NSF-61® certifications. The body and collet of the fittings are made from polyoxymethylene (POM) also known as acetal, while the o-rings are made from ethylene propylene diene monomer (EPDM) which is a type of synthetic rubber.

Features

- Designed for potable water and beverages
- NSF-51 and NSF-61 certified
- Easy tubing installation and removal
- Optional retaining clips prevent accidental tube removal
- Fittings rated for up to 145psi at 70°C (158°F)

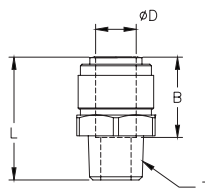
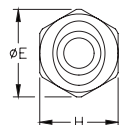


*Push-to-Connect Fitting
Cut-away Diagram*



Potable Water Push-to-Connect Fittings

HydroMode push-to-connect male straight fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

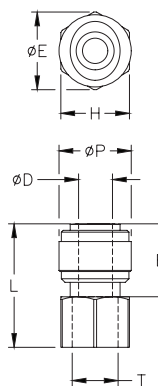


HydroMode™ Male Straight

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	T (NPTF)	B	ØE	H (inch)	L	Package Weight (lbs)	Qty. per pack
MS532-18N-P	\$-11zi:	5/32 in. x 1/8 NPT	5/32	1/8	14.7	17.8	15.8 (5/8)	22.2	0.1	5
MS532-14N-P	\$-11zj:	5/32 in. x 1/4 NPT	5/32	1/4	14.7	17.8	15.8 (5/8)	25.3	0.1	5
MS14-18N-P	\$11zk:	1/4 in. x 1/8 NPT	1/4	1/8	16.9	17.8	15.8 (5/8)	27.0	0.1	5
MS14-14N-P	\$-11zl:	1/4 in. x 1/4 NPT	1/4	1/4	16.9	17.8	15.8 (5/8)	27.0	0.1	5
MS14-38N-P	\$11zn:	1/4 in. x 3/8 NPT	1/4	1/4	16.9	21.4	19.0 (3/4)	26.1	0.1	5
MS516-18N-P	\$11zo:	5/16 in. x 1/8 NPT	5/16	5/16	17.5	21.4	19.0 (3/4)	28.4	0.1	5
MS516-14N-P	\$11zp:	5/16 in. x 1/4 NPT	5/16	5/16	17.5	21.4	19.0 (3/4)	27.9	0.1	5
MS516-38N-P	\$11zq:	5/16 in. x 3/8 NPT	5/16	5/16	17.5	21.4	19.0 (3/4)	26.5	0.1	5
MS516-12N-P	\$11zs:	5/16 in. x 1/2 NPT	5/16	5/16	17.5	25.0	22.2 (7/8)	33.5	0.1	5
MS38-18N-P	\$;11zt:	3/8 in. x 1/8 NPT	3/8	3/8	20.2	23.0	20.6 (3/4)	30.4	0.1	5
MS38-14N-P	\$11zu:	3/8 in. x 1/4 NPT	3/8	3/8	20.2	23.0	20.6 (3/4)	34.3	0.1	5
MS38-38N-P	\$11zv:	3/8 in. x 3/8 NPT	3/8	3/8	20.2	23.0	20.6 (3/4)	29.6	0.1	5
MS38-12N-P	\$11zx:	3/8 in. x 1/2 NPT	3/8	1/2	20.2	25.0	22.2 (7/8)	33.9	0.1	5
MS12-38N-P	\$11zy:	1/2 in. x 3/8 NPT	1/2	3/8	25.1	27.4	25.4 (1.0)	38.4	0.1	5
MS12-12N-P	\$11zz:	1/2 in. x 1/2 NPT	1/2	1/2	25.1	27.4	25.4 (1.0)	37.9	0.1	5

HydroMode push-to-connect female straight fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.



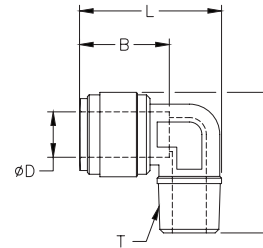
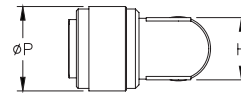
HydroMode™ Female Straight

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	ØP	T (NPTF)	B	ØE	H (Hex)	L	Package Weight (lbs)	Qty. per pack
FS14-18N-P	\$;11zj:	1/4 in. x 1/8 NPT	1/4	15.5	1/8	16.9	19.0	17.0	30.9	0.1	5
FS14-14N-P	\$;11zj:	1/4 in. x 1/4 NPT	1/4	15.5	1/4	16.9	21.5	19.0	30.9	0.1	5
FS38-14N-P	\$11z_:	3/8 in. x 1/4 NPT	3/8	20.0	1/4	20.2	21.5	19.0	34.2	0.1	5

HydroMode™ Potable Water Push-to-Connect Fittings

HydroMode push-to-connect male elbow fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

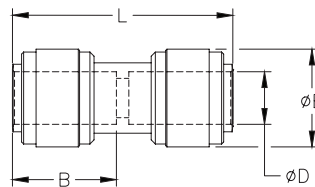


HydroMode™ Male Elbow

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	ØP	T (NPTF)	B	E	H (inch)	L	Package Weight (lbs)	Qty. per pack
ME532-18N-P	\$11z#:	5/32 in. x 1/8 NPT	5/32	15.5	1/8	14.7	26.4	11.0 (7/16)	25.4	0.1	5
ME14-18N-P	\$11z!:	1/4 in. x 1/8 NPT	1/4	15.5	1/8	16.9	26.4	11.0 (7/16)	25.6	0.1	5
ME14-14N-P	\$11z?:	1/4 in. x 1/4 NPT	1/4	15.5	1/4	16.9	31.9	11.0 (7/16)	27.0	0.1	5
ME14-38N-P	\$11z,:	1/4 in. x 3/8 NPT	1/4	15.5	3/8	16.9	32.7	11.0 (7/16)	28.9	0.1	5
ME516-14N-P	\$11j0:	5/16 in. x 1/4 NPT	5/16	20.0	1/4	17.5	35.2	14.3 (9/16)	31.4	0.1	5
ME38-14N-P	\$11j2:	3/8 in. x 1/4 NPT	3/8	20.0	1/4	20.2	35.2	14.3 (9/16)	31.8	0.1	5
ME38-38N-P	\$11j3:	3/8 in. x 3/8 NPT	3/8	20.0	3/8	20.2	35.8	14.3 (9/16)	33.9	0.1	5
ME12-38N-P	\$11j4:	1/2 in. x 3/8 NPT	1/2	23.6	3/8	25.1	39.3	17.4 (11/16)	39.7	0.1	5
ME12-12N-P	\$11j5:	1/2 in. x 1/2 NPT	1/2	23.6	1/2	25.1	43.3	17.4 (11/16)	41.5	0.2	5

HydroMode push-to-connect union straight fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.



HydroMode™ Union Straight

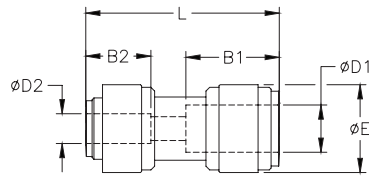
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	B	ØE	L	Package Weight (lbs)	Qty. per pack
US532-P	\$11j6:	5/32 in. x 5/32 in.	5/32	14.7	13.3	31.8	0.1	5
US14-P	\$11j7:	1/4 in. x 1/4 in.	1/4	16.9	15.5	36.2	0.1	5
US516-P	\$11j9:	5/16 in. x 5/16 in.	5/16	17.5	17.6	38.2	0.1	5
US38-P	\$11jc:	3/8 in. x 3/8 in.	3/8	20.2	20.0	42.9	0.1	5
US12-P	\$11jf:	1/2 in. x 1/2 in.	1/2	25.1	23.6	53.2	0.1	5



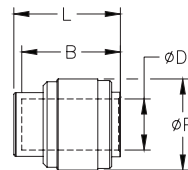
Potable Water Push-to-Connect Fittings

HydroMode push-to-connect union straight reducer fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.



HydroMode™ Union Straight Reducer										
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted										
Part No.	Price	Size (inch)	ØD1 (inch)	ØD2 (inch)	B1	B2	ØE	L	Package Weight (lbs)	Qty. per pack
UR516-14-P	\$;11!6:	5/16 in. x 1/4 in.	5/16	1/4	17.5	16.9	17.6	36.8	0.1	5
UR38-14-P	\$;11!7:	3/8 in. x 1/4 in.	3/8	1/4	20.2	16.9	20.0	42.1	0.1	5
UR38-516-P	\$;11!8:	3/8 in. x 5/16 in.	3/8	5/16	20.2	17.5	20.0	42.5	0.1	5
UR12-516-P	\$;11!9:	1/2 in. x 5/16 in.	1/2	5/16	25.1	17.5	23.6	52.0	0.2	5
UR12-38-P	\$;11!a:	1/2 in. x 3/8 in.	1/2	3/8	25.1	25.1	23.6	52.4	0.2	5

HydroMode push-to-connect union cap fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

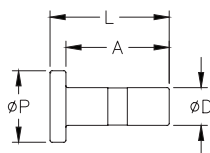


HydroMode™ Union Cap								
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted								
Part No.	Price	Size (inch)	ØD (inch)	ØP	B	L	Package Weight (lbs)	Qty. per pack
UC14-P	\$;11!g:	1/4 in.	1/4	15.5	16.9	18.9	0.1	5
UC516-P	\$;11!h:	5/16 in.	5/16	17.6	17.5	19.5	0.1	5
UC38-P	\$;-11!j:	3/8 in.	3/8	20.0	20.2	22.2	0.1	5



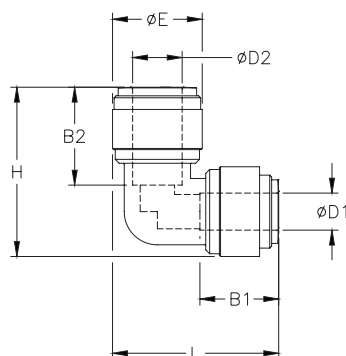
Potable Water Push-to-Connect Fittings

HydroMode push-to-connect plug fitting with acetel body and synthetic rubber o-ring. Five fittings per package.



HydroMode™ Plug								
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted								
Part No.	Price	Size (inch)	ØD (inch)	ØP	A	L	Package Weight (lbs)	Qty. per pack
PLUG14-P	\$;11]k:	1/4 in.	1/4	13.0	21.0	24.5	0.1	5
PLUG38-P	\$;11]l:	3/8 in.	3/8	18.0	26.0	30.0	0.1	5

HydroMode push-to-connect union elbow fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

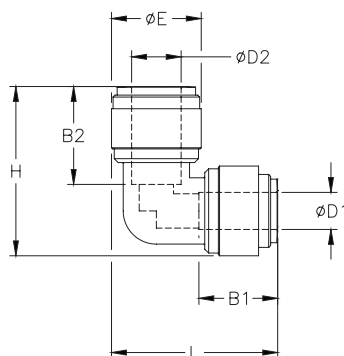


HydroMode™ Union Elbow											
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted											
Part No.	Price	Size (inch)	ØD1 (inch)	ØD2 (inch)	B1	B2	ØE	L	H	Package Weight (lbs)	Qty. per pack
UL532-P	\$;11]n:	5/32 in. x 5/32 in.	5/32	5/32	14.7	14.7	13.2	24.5	24.5	0.1	5
UL14-P	\$;11]o:	1/4 in. x 1/4 in.	1/4	1/4	16.9	16.9	15.5	28.8	28.8	0.1	5
UL516-P	\$;11]q:	5/16 in. x 5/16 in.	5/16	5/16	17.5	17.5	17.6	30.7	30.7	0.1	5
UL38-P	\$;11]t:	3/8 in. x 3/8 in.	3/8	3/8	20.2	20.2	20.0	35.9	35.9	0.1	5
UL12-P	\$;11]v:	1/2 in. x 1/2 in.	1/2	1/2	25.1	25.1	23.0	43.4	43.4	0.2	5



Potable Water Push-to-Connect Fittings

HydroMode push-to-connect union reducing elbow fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

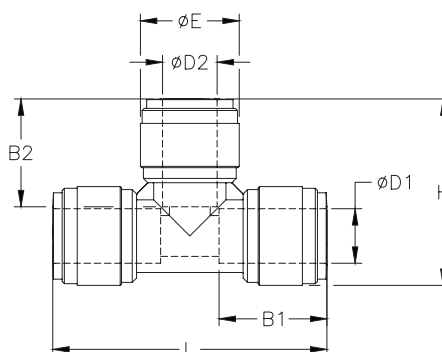


HydroMode™ Union Reducing Elbow

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD1 (inch)	ØD2 (inch)	B1	B2	ØE	L	H	Package Weight (lbs)	Qty. per pack
URL516-14-P	\$;11]p:	5/16 in. x 1/4 in.	5/16	1/4	17.5	16.9	17.6	30.7	30.3	0.1	5
URL12-38-P	\$;11]u:	1/2 in. x 3/8 in.	1/2	3/8	25.1	20.2	23.0	43.4	42.6	0.2	5

HydroMode push-to-connect union tee fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.



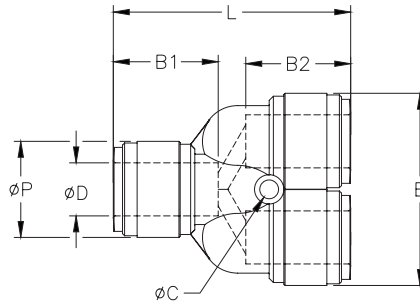
HydroMode™ Union Tee

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD1 (inch)	ØD2 (inch)	B1	B2	ØE	H	L	Package Weight (lbs)	Qty. per pack
UT532-P	\$;11]x:	5/32 in.	5/32	5/32	14.7	14.7	13.2	24.5	35.8	0.1	5
UT14-P	\$;11]y:	1/4 in.	1/4	1/4	16.9	16.9	15.5	28.8	42.0	0.1	5
UT516-P	\$;11]z:	5/16 in.	5/16	5/16	17.5	17.5	17.6	30.7	43.8	0.1	5
UT38-P	\$;11]]:	3/8 in.	3/8	3/8	20.2	20.2	20.0	35.9	51.8	0.2	5
UT12-P	\$;11]]:	1/2 in.	1/2	1/2	25.1	25.1	23.0	43.4	63.8	0.2	5

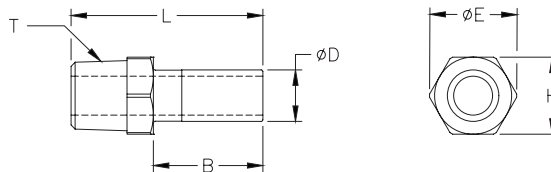
HydroMode™ Potable Water Push-to-Connect Fittings

HydroMode push-to-connect union Y fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.



HydroMode™ Union Y										
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted										
Part No.	Price	Size (inch)	ØD (inch)	B1	B2	ØP	L	Ø	Package Weight (lbs)	Qty. per pack
UY532-P	\$,11]_:	5/32 in.	5/32	14.7	14.7	13.8	33.7	3.3	0.1	5
UY14-P	\$,11]#:	1/4 in.	1/4	16.9	16.9	15.5	38.8	3.3	0.1	5
UY516-P	\$,;11]!:	5/16 in.	5/16	17.5	17.5	17.6	41.0	4.5	0.1	5
UY38-P	\$,11]?:	3/8 in.	3/8	20.2	20.2	20.0	46.4	4.5	0.2	5
UY12-P	\$,;11]_:	1/2 in.	1/2	25.1	25.1	23.0	56.8	4.5	0.3	5

HydroMode push-to-connect NPT stem adapter fitting with acetel body and synthetic rubber o-ring. Five fittings per package.

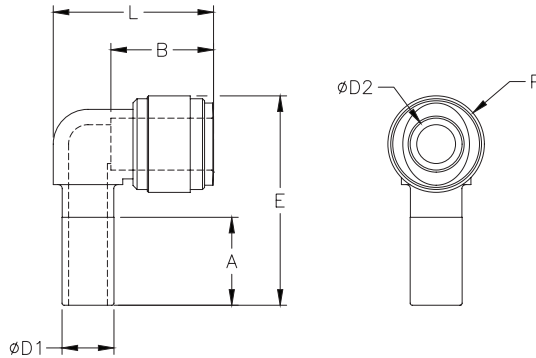


HydroMode™ NPT Stem Adapter										
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted										
Part No.	Price	Size (inch)	ØD (inch)	T (NPTF)	B	ØE	H (inch)	L	Package Weight (lbs)	Qty. per pack
SA532-18N-P	\$,11[0:	5/32 in. x 1/8 NPT	5/32	1/8	18.0	14.1	12.7 (1/2)	33.1	0.1	5
SA532-14N-P	\$,11[1:	5/32 in. x 1/4 NPT	5/32	1/4	18.0	17.8	15.8 (5/8)	37.2	0.1	5
SA14-18N-P	\$,11[2:	1/4 in. x 1/8 NPT	1/4	1/8	19.0	14.1	12.7 (1/2)	34.1	0.1	5
SA14-14N-P	\$,11[3:	1/4 in. x 1/4 NPT	1/4	1/4	19.0	17.8	15.8 (5/8)	38.2	0.1	5
SA516-14N-P	\$,11[5:	5/16 in. x 1/4 NPT	5/16	1/4	20.0	17.8	15.8 (5/8)	39.2	0.1	5
SA38-14N-P	\$,11[7:	3/8 in. x 1/4 NPT	3/8	1/4	23.0	17.8	15.8 (5/8)	42.2	0.1	5
SA38-38N-P	\$,11[8:	3/8 in. x 3/8 NPT	3/8	3/8	23.0	21.5	19.0 (3/4)	43.3	0.1	5
SA12-38N-P	\$,11[9:	1/2 in. x 3/8 NPT	1/2	3/8	27.0	21.5	19.0 (3/4)	47.3	0.1	5
SA12-12N-P	\$,11[a:	1/2 in. x 1/2 NPT	1/2	1/2	27.0	26.8	23.8 (15/16)	51.3	0.1	5



Potable Water Push-to-Connect Fittings

HydroMode push-to-connect plug in elbow fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

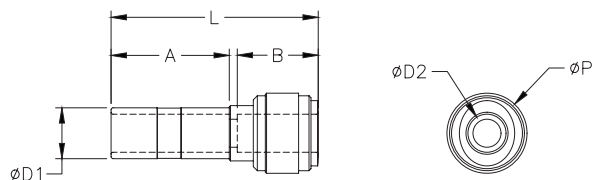


HydroMode™ Plug In Elbow

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD1 (inch)	ØD2 (inch)	P	A	B	E	L	Package Weight (lbs)	Qty. per pack
<u>PE532-P</u>	\$;11[b:	5/32 in. x 5/32 in.	5/32	5/32	13.2	18.0	14.7	30.1	21.9	0.1	5
<u>PE14-P</u>	\$;11[c:	1/4 in. x 1/4 in.	1/4	1/4	15.5	21.0	16.9	34.8	25.1	0.1	5
<u>PE516-P</u>	\$;11[d:	5/16 in. x 5/16 in.	5/16	5/16	17.6	22.5	17.5	38.3	27.7	0.1	5
<u>PE38-14-P</u>	\$;11[e:	3/8 in. x 1/4 in.	3/8	1/4	15.5	24.8	16.9	38.6	25.1	0.1	5
<u>PE38-P</u>	\$;11[g:	3/8 in. x 3/8 in.	3/8	3/8	20.0	24.8	20.2	43.2	31.4	0.1	5
<u>PE12-P</u>	\$;11[h:	1/2 in. x 1/2 in.	1/2	1/2	23.6	29.5	25.1	51.2	39.2	0.1	5

HydroMode push-to-connect plug in reducer fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.



HydroMode™ Plug In Reducer

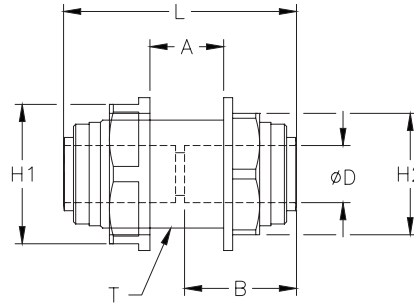
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD1 (inch)	ØD2 (inch)	ØP	L	A	B	Package Weight (lbs)	Qty. per pack
<u>PR14-532-P</u>	\$;11[i:	1/4 in. x 5/32 in.	1/4	5/32	13.2	36.7	21.0	14.7	0.1	5
<u>PR38-14-P</u>	\$;11[k:	3/8 in. x 1/4 in.	3/8	1/4	17.6	43.9	24.8	16.9	0.1	5
<u>PR38-516-P</u>	\$;11[l:	3/8 in. x 5/16 in.	3/8	5/16	17.6	44.3	24.8	17.5	0.1	5
<u>PR12-38-P</u>	\$;11[n:	1/2 in. x 3/8 in.	1/2	3/8	20.0	51.7	29.5	20.2	0.1	5



Potable Water Push-to-Connect Fittings

HydroMode push-to-connect bulkhead union fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

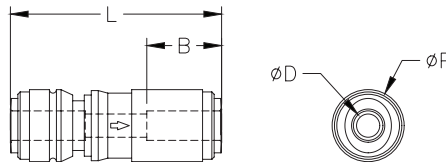


HydroMode™ Bulkhead Union

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	T	L	A	B	H1	H2	Package Weight (lbs)	Qty. per pack
UB532-P	\$;11[o:	5/32 in. x 5/32 in.	5/32	M15*1.5P	31.4	7.2	14.7	17.0	18.0	0.1	5
UB14-P	\$;11[p:	1/4 in. x 1/4 in.	1/4	M17*1.5P	34.2	7.9	16.9	19.0	21.0	0.1	5
UB516-P	\$;11[q:	5/16 in. x 5/16 in.	1/4	M24*1.75P	47.9	11.1	16.9	24.0	28.5	0.2	5
UB38-14-P	\$;11[s:	3/8 in. x 1/4 in.	5/16	M20*1.75P	38.5	9.4	17.5	21.0	25.5	0.2	5
UB38-P	\$;11[t:	3/8 in. x 3/8 in.	3/8	M24*1.75P	42.4	10.8	20.2	24.0	28.5	0.2	5
UB12-P	\$;11[u:	1/2 in. x 1/2 in.	1/2	M27*2.0P	51.8	16.4	25.1	27.0	31.0	0.3	5

HydroMode push-to-connect union check valve fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.



HydroMode™ Union Check Valve

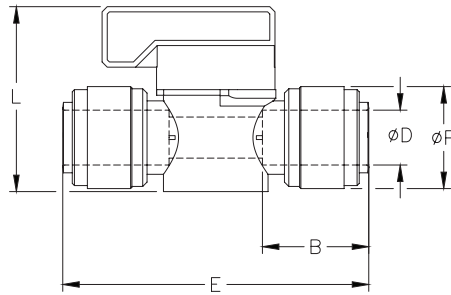
Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	ØP	L	B	Package Weight (lbs)	Qty. per pack
CVU14-P	\$;11[v:	1/4 in. x 1/4 in.	1/4	15.5	45.5	16.1	0.1	2
CVU516-P	\$;11[x:	5/16 in. x 5/16 in.	5/16	17.6	48.6	17.5	0.1	2
CVU38-P	\$;11[y:	3/8 in. x 3/8 in.	3/8	20.0	57.8	19.4	0.1	2
CVU12-P	\$;11[z:	1/2 in. x 1/2 in.	1/2	23.6	67.9	24.1	0.1	2



Potable Water Push-to-Connect Fittings

HydroMode push-to-connect union hand valve fitting with acetel body and synthetic rubber o-ring. For use with polyethylene and other flexible tubing. Five fittings per package.

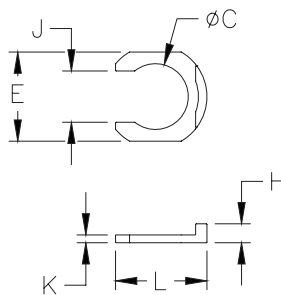


HydroMode™ Union Hand Valve

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	B	ØP	L	E	Package Weight (lbs)	Qty. per pack
HVU14-P	\$,;11[]:	1/4 in. x 1/4 in.	1/4	16.1	15.5	34.5	51.7	0.1	2
HVU516-P	\$,;11[]:	5/16 in. x 5/16 in.	5/16	17.5	17.6	34.5	53.5	0.1	2
HVU38-P	\$,;11[]:	3/8 in. x 3/8 in.	3/8	20.2	20.0	42.3	63.2	0.1	2
HVU12-P	\$,;11[#]:	1/2 in. x 1/2 in.	1/2	23.9	23.0	42.3	70.8	0.2	2

HydroMode push-to-connect polyoxymethylene (acetal) locking clip. For use with HydroMode fittings. Twenty five fittings per package.



HydroMode™ Locking Clip

Inch Sizes - dimensions in millimeters (mm) unless otherwise noted

Part No.	Price	Size (inch)	ØD (inch)	ØC	E	L	H	J	K	Package Weight (lbs)	Qty. per pack
LC532-P	\$,;11[]:	5/32 in.	5/32	6.2	10.2	11.0	2.8	4.3	1.1	0.1	25
LC14-P	\$,;11[]:	1/4 in.	1/4	8.0	11.6	11.6	3.1	6.4	1.3	0.1	25
LC516-P	\$,;11[]:	5/16 in.	5/16	9.6	13.5	13.9	3.3	7.3	1.4	0.1	25
LC38-P	\$11_0:	3/8 in.	3/8	11.8	16.0	16.4	3.4	9.2	1.4	0.1	25
LC12-P	\$11_1:	1/2 in.	1/2	14.4	19.0	19.0	3.6	11.1	1.4	0.1	25

HydroMode™ Polyethylene Tubing



HydroMode™ polyethylene (PE) tubing is designed for use with potable water and beverages. This tubing is NSF-61® certified and works well with HydroMode push-to-connect fittings.

Features

- Five sizes - 5/32" to 1/2"
- Seven colors - black, blue, natural, red, yellow, green and white
- 100, 500 and 1000 foot package sizes, 100 and 250 foot package sizes for the PE12 series
- Shore A 98 hardness
- NSF-61 certified
- Flexible and lightweight
- Works with push-to-connect fittings
- Made in USA

Polyethylene 5/32 in. [4mm] Tubing Specifications

<i>Outside Diameter (inch)</i>	0.156	<i>Working Pressure (psi) @ 70°F</i>	75	<i>Temp. Range</i>	-50°F to +140°F (-45.6°C to +60°C)
<i>Inside Diameter (inch)</i>	0.106	<i>Burst Pressure (psi)</i>	540	<i>Hardness</i>	Shore A 98
<i>Wall Thickness (inch)</i>	0.025	<i>Vacuum Rating</i>	To 28" Hg	<i>Bend Radius (inch)</i>	1.000

100 ft. Package Length

<i>Part Number</i>	<i>Price</i>	<i>Color</i>	<i>Package Weight (lbs)</i>
<u>PE532BLK100</u>	\$11vp:	Black	0.6
<u>PE532BLU100</u>	\$;11vt:	Blue	0.6
<u>PE532GRN100</u>	\$;11v.:	Green	0.6

500 ft. Package Length

<u>PE532BLK500</u>	\$11vq:	Black	3.0
<u>PE532BLU500</u>	\$11vu:	Blue	3.0

1000 ft. Package Length

<u>PE532BLK1000</u>	\$11vs:	Black	6.0
<u>PE532BLU1000</u>	\$11vv:	Blue	6.0

HydroMode™ Polyethylene Tubing

Polyethylene 1/4 in. Tubing Specifications					
<i>Outside Diameter (inch)</i>	0.250	<i>Working Pressure (psi) @ 70°F</i>	75	<i>Temp. Range</i>	-50°F to +140°F (-45.6°C to +60°C)
<i>Inside Diameter (inch)</i>	0.170	<i>Burst Pressure (psi)</i>	540	<i>Hardness</i>	Shore A 98
<i>Wall Thickness (inch)</i>	0.040	<i>Vacuum Rating</i>	To 28" Hg	<i>Bend Radius (inch)</i>	1.250
100 ft. Package Length					
<i>Part Number</i>	<i>Price</i>		<i>Color</i>	<i>Package Weight (lbs)</i>	
<u>PE14BLK100</u>	\$11x5:		Black	1.2	
<u>PE14BLU100</u>	\$11x8:		Blue	1.2	
<u>PE14NAT100</u>	\$11xb:		Natural	1.2	
<u>PE14RED100</u>	\$11xe:		Red	1.2	
<u>PE14YEL100</u>	\$11xh:		Yellow	1.2	
<u>PE14GRN100</u>	\$11xk:		Green	1.2	
<u>PE14WHT100</u>	\$11xo:		White	1.2	
500 ft. Package Length					
<u>PE14BLK500</u>	\$11x6:		Black	6.0	
<u>PE14BLU500</u>	\$11x9:		Blue	6.0	
<u>PE14NAT500</u>	\$11xc:		Natural	6.0	
<u>PE14RED500</u>	\$11xf:		Red	6.0	
<u>PE14YEL500</u>	\$11xi:		Yellow	6.0	
<u>PE14GRN500</u>	\$11xl:		Green	6.0	
<u>PE14WHT500</u>	\$11xp:		White	6.0	
1000 ft. Package Length					
<u>PE14BLK1000</u>	\$011x7:		Black	12.0	
<u>PE14BLU1000</u>	\$011xa:		Blue	12.0	
<u>PE14NAT1000</u>	\$011xd:		Natural	12.0	
<u>PE14YEL1000</u>	\$11xj:		Yellow	12.0	
<u>PE14GRN1000</u>	\$11xn:		Green	12.0	
<u>PE14WHT1000</u>	\$011xq:		White	12.0	

Polyethylene 5/16 in. [8mm] Tubing Specifications					
<i>Outside Diameter (inch)</i>	0.313	<i>Working Pressure (psi) @ 70°F</i>	75	<i>Temp. Range</i>	-50°F to +140°F (-45.6°C to +60°C)
<i>Inside Diameter (inch)</i>	0.236	<i>Burst Pressure (psi)</i>	540	<i>Hardness</i>	Shore A 98
<i>Wall Thickness (inch)</i>	0.038	<i>Vacuum Rating</i>	To 28" Hg	<i>Bend Radius (inch)</i>	1.500
100 ft. Package Length					
<i>Part Number</i>	<i>Price</i>	<i>Color</i>	<i>Package Weight (lbs)</i>		
<u>PE516BLK100</u>	\$11xs:	Black	1.5		
<u>PE516BLU100</u>	\$11xv:	Blue	1.5		

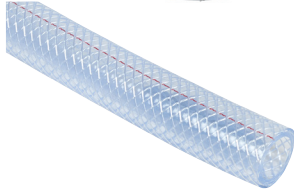
HydroMode™ Polyethylene Tubing

Polyethylene 3/8 in. Tubing Specifications					
<i>Outside Diameter (inch)</i>	0.375	<i>Working Pressure (psi) @ 70°F</i>	75	<i>Temp. Range</i>	-50°F to +140°F (-45.6°C to +60°C)
<i>Inside Diameter (inch)</i>	0.250	<i>Burst Pressure (psi)</i>	540	<i>Hardness</i>	Shore A 98
<i>Wall Thickness (inch)</i>	0.062	<i>Vacuum Rating</i>	To 28" Hg	<i>Bend Radius (inch)</i>	2.000
100 ft. Package Length					
<i>Part Number</i>	<i>Price</i>		<i>Color</i>	<i>Package Weight (lbs)</i>	
<u>PE38BLK100</u>	\$11y7:		Black	3.0	
<u>PE38BLU100</u>	\$11ya:		Blue	3.0	
<u>PE38NAT100</u>	\$11yd:		Natural	3.0	
<u>PE38RED100</u>	\$11yg:		Red	3.0	
<u>PE38YEL100</u>	\$-11yj:		Yellow	3.0	
<u>PE38GRN100</u>	\$11yn:		Green	3.0	
<u>PE38WHT100</u>	\$11yq:		White	3.0	
500 ft. Package Length					
<u>PE38BLK500</u>	\$011y8:		Black	14.0	
<u>PE38BLU500</u>	\$011yb:		Blue	14.0	
<u>PE38RED500</u>	\$011yh:		Red	14.0	
<u>PE38YEL500</u>	\$011yk:		Yellow	14.0	
<u>PE38GRN500</u>	\$011yo:		Green	14.0	
1000 ft. Package Length					
<u>PE38BLU1000</u>	\$011yc:		Blue	25.0	
<u>PE38YEL1000</u>	\$-011yl:		Yellow	25.0	

Polyethylene 1/2 in. Tubing Specifications					
<i>Outside Diameter (inch)</i>	0.500	<i>Working Pressure (psi) @ 70°F</i>	75	<i>Temp. Range</i>	-50°F to +140°F (-45.6°C to +60°C)
<i>Inside Diameter (inch)</i>	0.375	<i>Burst Pressure (psi)</i>	540	<i>Hardness</i>	Shore A 98
<i>Wall Thickness (inch)</i>	0.062	<i>Vacuum Rating</i>	To 28" Hg	<i>Bend Radius (inch)</i>	2.500
100 ft. Package Length					
<i>Part Number</i>	<i>Price</i>	<i>Color</i>	<i>Package Weight (lbs)</i>		
<i>PE12BLK100</i>	\$11yu:	Black	3.4		
<i>PE12BLU100</i>	\$11yx:	Blue	3.4		
<i>PE12NAT100</i>	\$11yz:	Natural	3.4		
<i>PE12RED100</i>	\$;11y[:	Red	3.4		
<i>PE12YEL100</i>	\$11y#:	Yellow	3.4		
<i>PE12GRN100</i>	\$11y?:	Green	3.4		
<i>PE12WHT100</i>	\$11z2:	White	3.4		
500 ft. Package Length					
<i>PE12BLK500</i>	\$011yv:	Black	17.0		
<i>PE12BLU500</i>	\$011yy:	Blue	17.0		
<i>PE12RED500</i>	\$011y_:	Red	17.0		
<i>PE12YEL500</i>	\$;011y!:	Yellow	17.0		
<i>PE12GRN500</i>	\$011z1:	Green	17.0		



Reinforced PVC - Potable Water Hose



Reinforced Construction

HydroMode™ reinforced PVC hose incorporates a polyester spiraled yarn which allows use in higher pressure applications. Hose provides good chemical resistance and is flexible and lightweight. It is Phthalate free and NSF 61® certified for use in potable water and food beverage applications.

Features

- NSF-61 certified
- Shore A 73 PVC
- Clear blue in color
- Flexible and lightweight
- Phthalate free

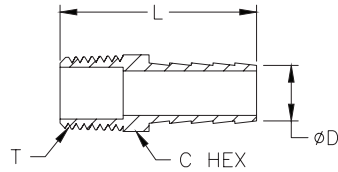
Reinforced PVC - Potable Water Hose

Temp. Range		+15°F to +150°F (-9.4°C to +65.6°C)						
Hardness		Shore A 73 PVC						
Part Number	Price	Hose I.D. (inch)	Hose O.D. (inch)	Working Pressure (psi) @ 70°F	Working Pressure (psi) @ 125°F	Wall Thickness (inch)	PKG Length	Package Weight (lbs)
HBV316-100CBL	\$;11y,:	0.187	0.375	250	145	0.094	100 ft	4.4
HBV316-300CBL	\$011z0:	0.187	0.375	250	145	0.094	300 ft	13.2
HBV14-100CBL	\$11z4:	0.250	0.438	250	145	0.094	100 ft	5.8
HBV14-300CBL	\$011z5:	0.250	0.438	250	145	0.094	300 ft	17.5
HBV516-100CBL	\$11z6:	0.313	0.531	250	130	0.109	100 ft	7.4
HBV516-300CBL	\$011z7:	0.313	0.531	250	130	0.109	300 ft	22.2
HBV38-100CBL	\$11z8:	0.375	0.594	225	120	0.110	100 ft	9.0
HBV38-300CBL	\$011z9:	0.375	0.594	225	120	0.110	300 ft	27.1
HBV12-100CBL	\$11za:	0.500	0.750	200	95	0.125	100 ft	13.3
HBV12-300CBL	\$011zb:	0.500	0.750	200	95	0.125	300 ft	40.0
HBV58-100CBL	\$011zc:	0.625	0.891	200	95	0.133	100 ft	15.9
HBV58-300CBL	\$011zd:	0.625	0.891	200	95	0.133	300 ft	47.8
HBV34-100CBL	\$011ze:	0.750	1.030	150	80	0.140	100 ft	20.7
HBV34-300CBL	\$;011zf:	0.750	1.030	150	80	0.140	300 ft	62.2
HBV1-100CBL	\$011zg:	1.000	1.300	125	70	0.150	100 ft	29.1
HBV1-200CBL	\$011zh:	1.000	1.300	125	70	0.150	200 ft	58.2

HydroMode™ Lead Free Brass Adapter Fittings

HydroMode lead free brass fittings are designed for use in potable water and beverage applications. These hose barb adapters work well with PVC hose and stainless steel hose clamps.

Note: Actual product dimensions and appearance may vary



HydroMode™ Lead Free Brass Straight Barb Fitting								
Inch Sizes - dimensions in inches [mm]								
Part No.	Price	Description	Parts Per Pkg	Weight	T	L	ØD	C Hex
<u>NLBHB-316-18N</u>	\$11_2:	Straight barb, 3/16 inch hose to 1/8 inch male NPT	3	0.1	1/8	1.27 [32.1]	0.20 [5.1]	0.44 [11.1]
<u>NLBHB-14-18N</u>	\$11_3:	Straight barb, 1/4 inch hose to 1/8 inch male NPT	3	0.1	1/8	1.43 [36.3]	0.24 [6.1]	0.44 [11.1]
<u>NLBHB-14-14N</u>	\$11_4:	Straight barb, 1/4 inch hose to 1/4 inch male NPT	3	0.1	1/4	1.69 [42.9]	0.24 [6.1]	0.56 [14.3]
<u>NLBHB-516-18N</u>	\$11_5:	Straight barb, 5/16 inch hose to 1/8 inch male NPT	3	0.1	1/8	1.40 [35.6]	0.29 [7.4]	0.44 [11.1]
<u>NLBHB-516-14N</u>	\$11_6:	Straight barb, 5/16 inch hose to 1/4 inch male NPT	3	0.1	1/4	1.43 [36.3]	0.29 [7.4]	0.56 [14.3]
<u>NLBHB-38-14N</u>	\$11_7:	Straight barb, 3/8 inch hose to 1/4 inch male NPT	3	0.1	1/4	1.63 [41.5]	0.36 [9.2]	0.56 [14.3]
<u>NLBHB-38-38N</u>	\$11_8:	Straight barb, 3/8 inch hose to 3/8 inch male NPT	3	0.2	3/8	1.52 [38.6]	0.36 [9.2]	0.69 [17.5]
<u>NLBHB-38-12N</u>	\$11_9:	Straight barb, 3/8 inch hose to 1/2 inch male NPT	3	0.2	1/2	1.61 [40.9]	0.36 [9.2]	0.88 [22.2]
<u>NLBHB-12-14N</u>	\$11_a:	Straight barb, 1/2 inch hose to 1/4 inch male NPT	3	0.2	1/4	1.64 [41.8]	0.48 [12.3]	0.56 [14.3]
<u>NLBHB-12-38N</u>	\$11_b:	Straight barb, 1/2 inch hose to 3/8 inch male NPT	3	0.2	3/8	1.74 [44.1]	0.48 [12.3]	0.69 [17.5]
<u>NLBHB-12-12N</u>	\$11_c:	Straight barb, 1/2 inch hose to 1/2 inch male NPT	3	0.3	1/2	1.80 [45.7]	0.48 [12.3]	0.88 [22.2]
<u>NLBHB-34-12N</u>	\$11_e:	Straight barb, 3/4 inch hose to 1/2 inch male NPT	3	0.3	1/2	1.78 [45.2]	0.73 [18.5]	0.88 [22.2]
<u>NLBHB-34-34N</u>	\$11_f:	Straight barb, 3/4 inch hose to 3/4 inch male NPT	3	0.4	3/4	1.90 [48.3]	0.73 [18.5]	1.06 [27.0]



WPT25 Series Pressure Transmitters

Part No. [WPT25-20-0015H](#)

The HydroMode WPT25 pressure transmitter series is UL Classified for NSF/ANSI/CAN 61 and 372, making it ideal for drinking water pressure measurement applications. Additionally, other media pressure sensing applications are possible due to the robust all stainless steel welded sensing element and wetted materials. The WPT25 series features full scale pressure ranges from 15 to 300 psig with a <1% Total Error Band over 0 to 50°C for optimum performance.

The HydroMode WPT25 series includes a 1/4" NPT male threaded process connection and industry standard, 2-wire, 4-20mA analog output with M12 quick disconnect that simplifies interface to controls, data collection, and telemetry systems.

Features

- UL Classified NSF/ANSI/CAN 61 and 372 for drinking water applications
- < ±1% Total Error Band (TEB) accuracy over 0...50°C
- 316L Stainless Steel wetted materials
- Full scale ranges from 15 to 300 psig
- 2-wire, 4-20mA output
- 2-year warranty



HydroMode WPT25 Series Pressure Transmitters

Part Number	Description	Range	Accuracy	Sensing Element	Output	Process Connection	Operating Voltage	Electrical Connection	Price	Drawing Link	Wt (lb)
WPT25-20-0015H	HydroMode pressure transmitter	0 to 15 psig	< ±1%	316L Stainless Steel	4-20 mA analog	1/4" male NPT	8 to 32 VDC	4-pin M12 quick-disconnect	\$06a5y:	PDF	0.123
WPT25-20-0030H		0 to 30 psig							\$06a5z:	PDF	0.123
WPT25-20-0050H		0 to 50 psig							\$06a5j:	PDF	0.118
WPT25-20-0100H		0 to 100 psig							\$06a5f:	PDF	0.118
WPT25-20-0150H		0 to 150 psig							\$06a5_:	PDF	0.123
WPT25-20-0200H		0 to 200 psig							\$06a5v:	PDF	0.118
WPT25-20-0300H		0 to 300 psig							\$06a5x:	PDF	0.118



Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

See our website www.AutomationDirect.com for complete Engineering drawings.

HydroMode WPT25 Series General Specifications

Pressure Ranges		
Relative Pressure	0 to 15, 30, 50, 100, 150, 200, 300 psig	
Proof Pressure	300% of full scale	
Burst Pressure	500% of full scale	
Accuracy		
Static	±0.25% FS Typical (±0.5% FS Max.)	Non-linearity best fit straight line (BFSL), hysteresis, non-repeatability at room temperature
Total Error Band (0 to 50°C)	±1.0% FS Max.	Maximum deviation within the specified pressure and temperature range
Total Error Band (-10- to 80°C)	±1.5% FS Max.	
Compensated Temperature Range	-10 to 80°C	
Long Term Stability	≤ ±0.3% FS	Per year under reference conditions
Position Dependency	≤ ±0.02 PSI	Calibrated in vertical installation with pressure connection facing downwards



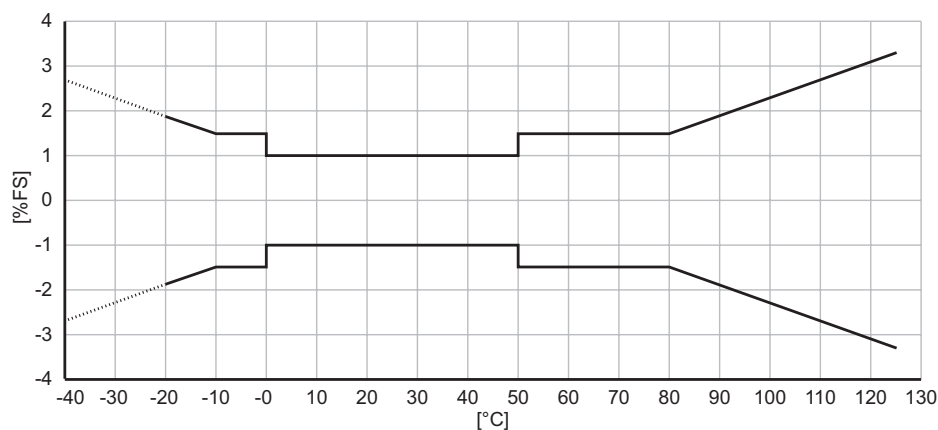
WPT25 Series Pressure Transmitters

HydroMode WPT25 Series General Specifications Continued		
Electrical		
Output	4 to 20 mA	
Supply	8 to 32 VDC	
Load Resistance (mA)	< (Supply-8V) / 0.025 A	
Limiting Frequency	1 KHz	
Startup Time (power supply ON)	< 5ms (0 to 99%)	
Overvoltage and Reverse Polarity Protection	± 32VDC	
GND-CASE Insulation	> 10MΩ @ 300VDC	
Connection		
Process	1/4" male NPT	
Electrical	DIN EN 61076-2-101 A-code 4-pin M12 (purchase cable separately)	
Environmental		
Protection Rating	IP54	
Operating Temperature	-20 to 125°C	
Wetted Materials	316L Stainless Steel	
Housing Material	Grivory HTV-4H1, 316L Stainless Steel	
Shock	50g (11ms)	IEC 60068-2-27
Vibration	10g, 10 to 2000Hz, ±10mm	IEC 60068-2-6
Certifications		
CE (EMC)	EN61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4, EN61326-1, EN61326-2-3	
Drinking Water	UL Classified: NSF/ANSI/CAN 61 and 372	



Warning! Avoid static and dynamic overpressure exceeding the given overload pressure.
Exceeding the burst pressure for even a short time can cause destruction of the unit and possible injuries!

Total Error Band



This graph shows the maximum deviation over the entire temperature range (-20...125°C).

Within the specified pressure and temperature range, the maximum total error has a constant value of ± 1.0 %FS (0...50 °C) or ± 1.5 %FS (-10...80 °C).

Experience shows that outside the specified temperature range, the total error increases linearly by 0.04 %FS/K.

WPT25 Wiring

Standard 4-20mA



Pin 1 - +Vcc
Pin 2 - No Connection
Pin 3 - OUT/GND
Pin 4 - No connection

2-Wire Current Loop

