### Ordering Guide

en

	Control Categories Code	•		End Connections	Code
	Hydrometer with Magnetic Drive Command M0			BSP Female Threaded (1½"-3"R Globe & 2" Angle)	BP
	Hydrometer with Magnetic Drive Command & V-Port MV		ded	NPT Female Threaded (1½"-3"R Globe & 2" Angle) BSP-U Male Threaded (1½" & 2")	NP
	Additional Features	Code	hree	BSP-U Male Threaded	BS
	No Additional Feature	00		(1½" & 2" )	200
	Closing Speed-Control	01		Hydrant 21/2" x BSP	HP
	Closing and Opening Speed-Control	03		Flange (JIS-10) inlet x BSP outlet	JB
	Hydraulic Override	09		ISO-10	10
Contraction of the local division of the loc	Electronic Control	18		ISO-16	16
	Oheck Feature Sciencid Controlled & Check Feature	20 25		ISO-14 (ISO 10/4 Holes), 3"	14
and the second se	Two-Stage Opening	30	5	ANSI-125	A1
RTI KO	Selected Setting	45	(2"-1	ANSI-150	A5
2	Dvier Pressure Guard	48		IBSI-D	BD
		49	) ap	JIS-10	J1
and the second s		50	1 CE	JIS-16	J6
	1 .			ABNT-10	B1

# Ordering Guide

May 2010

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100 Series High Performance Plastic Hydraulic/Electric Control Valves100 Series High Performance Plastic Hydraulic/Electric Control Valves



Water Control Solutions

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#### General Notes

04.2010

- As part of our ongoing effort to provide you with the products that you need, if the characteristics or features that you need are not listed in this ordering guide, please contact BERMAD.
- Some valve categories and features can be mixed and matched. When in doubt, contact BERMAD. This edition supersedes previous editions. We recommend that you discard previous editions.



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200 Series Plastic Hydraulic/Electric Control Valves

### High Performance Plastic Hydraulic/Electric Control Valves

### 100 Series h**Y**flow

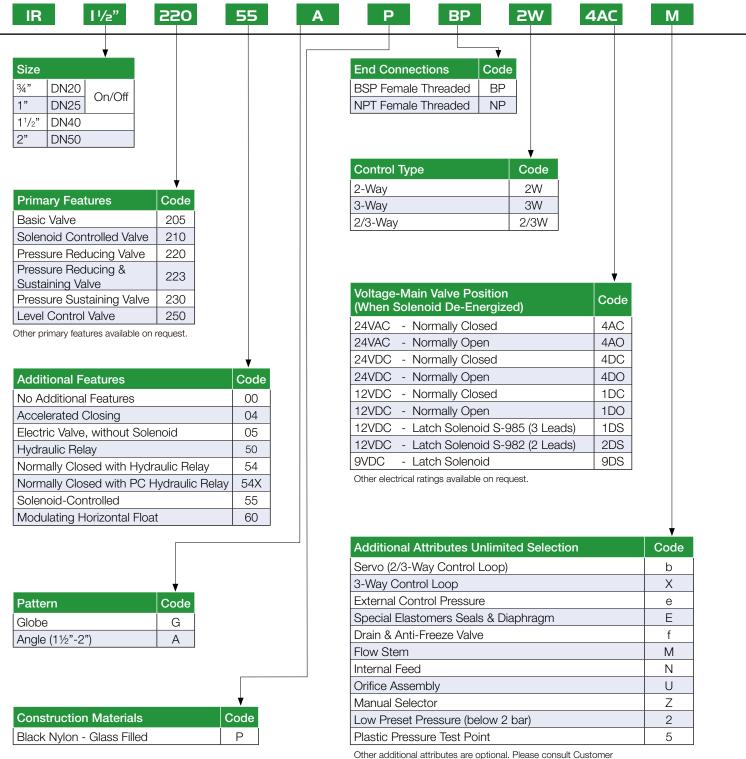
▼					
Size (Available End Connection)			End Conr	nections - Valve Body only (w/c	out Adapters) C
1 <sup>1</sup> /2" (Female Threaded)	DN40			BSP Female Threaded	
2" (Male or Female Threaded)	DN50		Threaded	NPT Female Threaded	
2"L (Female Threaded)	DN50L		Crooved*	BSP-F, Male Threaded (2" & 2 4" Angle & 6"	2½")
$2^{1}/2^{\circ}$ (Male Threaded)	DN65		Grooved*	Inlet BSP x Outlet(s) Horn (3" A	
<ul> <li>" (Female Threaded, Flanged, Grooved, Horn or Cemented)</li> </ul>			Horn	Inlet NPT x Outlet(s) Horn (3" Ar	ngle / Tee / Dual)
3"L (Female Threaded, Flanged, Grooved or Cemented)	DN80L		End Conr Flanged**	Plastic Flanges (3", 3"L, 4, 6")	)
4" (Flanged, Grooved or Cemented)	DN100			Metal Flanges - "Corona" (3"	
6" (Flanged or Grooved)	DN150		PVC	ID 75 mm (3", 3"L) ID 2½" (3", 3"L)	
	· 	- <b>V</b>	Cemented	ID 90 mm ; OD 110 mm (3", 3	
Primary Features	C	ode	(glue-in)	<sup>1</sup> ID 110 mm ; OD 125 mm (3", ID 3" ; OD 4" (3", 3"L, 4")	, 3"L, 4")
Basic Valve		105		ID 3"; OD 4" (3", 3"L, 4") ID 4" only (3", 3"L, 4")	
Basic Valve Internal Feed (1½"-3")	1	05-N	* Comply	to: ANSI C 606-81	
Solenoid Controlled Valve		110	** Comply	to: ISO PN10, BST-D, ANSI 12	25/150, JIS K-10
Pressure Reducing Valve		120		ering the adapters seperatly see et(s) end connections combinat	
Pressure Reducing & Sustaining Valve		123	Please con	sult Costumer Service for furthe	er information
Pressure Sustaining Valve		130			
Quick Pressure Relief Valve		13Q			ſ
evel Control Valve		150			
low Control Valve		170		Alain Valve Position	Cod
low Control & Pressure Reducing Valve		172		lenoid De-Energized)	
		··- []			
•				Normally Closed	4AC
		↓		Normally Closed Normally Open	4AC 4AC
Other primary features available on request.	<u></u>	Code	24VAC -		4AC
Other primary features available on request.			24VAC - 24VDC -	Normally Open	4AC 4DC
Other primary features available on request.		00	24VAC - 24VDC - 24VDC -	Normally Open Normally Closed	
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3")		00	24VAC - 24VDC - 24VDC - 12VDC -	Normally Open Normally Closed Normally Open	4AC 4DC 4DC
Other primary features available on request.         Additional Features         No Additional Features         Accelerated Closing (1½"-3")         Electric Valve, without Solenoid		00 04 05	24VAC - 24VDC - 24VDC - 12VDC - 12VDC -	Normally Open Normally Closed Normally Open Normally Closed	4AC 4DC 4DC 1DC 1DC
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay		00 04 05 50	24VAC - 24VDC - 24VDC - 12VDC - 12VDC - 12VDC -	Normally Open Normally Closed Normally Open Normally Closed Normally Open	4AC 4DC 4DC 1DC 2000 2000 2000 2000 2000 2000 2000 20
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay		00 04 05 50 54	24VAC - 24VDC - 24VDC - 12VDC - 12VDC - 12VDC - 12VDC -	Normally Open Normally Closed Normally Open Normally Closed Normally Open Latch Solenoid S-985 (3 Let	4AC 4DC 4DC 1DC 2000 2000 2000 2000 2000 2000 2000 20
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay		00 04 05 50 54 54X	24VAC - 24VDC - 24VDC - 12VDC - 12VDC - 12VDC - 12VDC - 9VDC -	Normally Open Normally Closed Normally Open Normally Closed Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le	4AC 4DC 4DC 1DC 1DC eads) 1DS eads) 2DS 9DS
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay Solenoid Controlled		00 04 05 50 54 54X 55	24VAC - 24VDC - 24VDC - 12VDC - 12VDC - 12VDC - 12VDC - 9VDC - Other electr	Normally Open Normally Closed Normally Open Normally Closed Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques	4AC 4DC 4DC 1DC 1DC 2ads) 1DS 2DS 9DS t.
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay Solenoid Controlled Modulating Horizontal Float		00 04 05 50 54 54X	24VAC - 24VDC - 24VDC - 12VDC - 12VDC - 12VDC - 12VDC - 9VDC -	Normally Open Normally Closed Normally Open Normally Closed Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques	4AC 4DC 4DC 1DC 1DC eads) 1DS eads) 2DS 9DS
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay Solenoid Controlled Modulating Horizontal Float Modulating Horizontal Float,		00 04 05 50 54 54X 55	24VAC       -         24VDC       -         24VDC       -         12VDC       -         12VDC       -         12VDC       -         12VDC       -         12VDC       -         12VDC       -         0VDC       -         Other electric       -         Tubing &       -         Plastic Tub       -	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard)	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay Solenoid Controlled Modulating Horizontal Float Modulating Horizontal Float, Low Pressure Systems		00           04           05           50           54           55           60           6L	24VAC       -         24VDC       -         24VDC       -         12VDC       -         12VDC       -         12VDC       -         12VDC       -         12VDC       -         12VDC       -         0VDC       -         Other electric       -         Tubing &       -         Plastic Tub       -	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP
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Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay Solenoid Controlled Modulating Horizontal Float Modulating Horizontal Float, _ow Pressure Systems Internal Feed & Bleed with Electric Cover External Feed & Internal Bleed with Electric Cover for	110-2W/3V	00 04 05 50 54 54X 555 60 6L N1	24VAC24VDC24VDC24VDC12VDC12VDC12VDC12VDC0ther electricTubing & Plastic Tub Plastic ResAdditional	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP ings PB
Dther primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay Solenoid Controlled Modulating Horizontal Float Modulating Horizontal Float, _ow Pressure Systems Internal Feed & Bleed with Electric Cover External Feed & Internal Bleed with Electric Cover for	110-2W/3V	00           04           05           50           54           55           60           6L           N1           V	24VAC       -         24VDC       -         24VDC       -         12VDC       -         12VDC       -         12VDC       -         12VDC       -         9VDC       -         Other electric       -         Tubing &       -         Plastic Tub       -         Additional       -         Servo (2/3)       -	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt A Attributes Unlimited Sele S-way Control Loop)	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP ings PB
Other primary features available on request. Additional Features No Additional Features Accelerated Closing (1½"-3") Electric Valve, without Solenoid Hydraulic Relay Normally Closed with Hydraulic Relay Normally Closed with PC Hydraulic Relay Solenoid Controlled Modulating Horizontal Float Modulating Horizontal Float, Low Pressure Systems Internal Feed & Bleed with Electric Cover External Feed & Internal Bleed with Electric Cover for Low Pressure PRV	110-2W/3V	00 04 05 50 54 54 55 60 6L 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24VAC -24VDC -24VDC -12VDC -12VDC -12VDC -9VDC -Other electricTubing &Plastic TubPlastic ReAdditionalServo (2/3)3-way Core	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt I Attributes Unlimited Sele B-way Control Loop) htrol Loop	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP ings PB
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ther primary features available on request. dditional Features lo Additional Features lo Additional Features loccelerated Closing (1½"-3") lectric Valve, without Solenoid lydraulic Relay lormally Closed with Hydraulic Relay lormally Closed with PC Hydraulic Relay lormally Closed with FDC Hydraulic Relay lormally Closed with FDC Hydraulic Relay lormally Closed with Float Addulating Horizontal Float Addulating Horizontal Float, ow Pressure Systems Internal Feed & Bleed with Electric Cover for ternal Feed & Internal Bleed with Electric Cover for ow Pressure PRV Pattern (Available Sizes)	110-2W/3V	00 04 05 50 54 54 55 60 6L 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24VAC -24VDC -24VDC -12VDC -12VDC -12VDC -9VDC -Other electrTubing &Plastic TubPlastic ReAdditionalServo (2/3)3-way ColDifferential	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt I Attributes Unlimited Sele B-way Control Loop) htrol Loop	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP ings PB
Other primary features available on request.         Additional Features         No Additional Features         Accelerated Closing (1½"-3")         Electric Valve, without Solenoid         Hydraulic Relay         Normally Closed with Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Solenoid Controlled         Modulating Horizontal Float         Modulating Horizontal Float,         .ow Pressure Systems         Internal Feed & Bleed with Electric Cover         ixternal Feed & Internal Bleed with Electric Cover for '         .ow Pressure PRV	110-2W/3W	00 04 05 50 54 54X 55 60 6L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24VAC -24VDC -24VDC -12VDC -12VDC -12VDC -9VDC -Other electrTubing &Plastic TubPlastic ReAdditionalServo (2/3)3-way ConDifferentialExternal C	Normally Open Normally Closed Normally Open Normally Closed Normally Closed Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt Attributes Unlimited Sele S-way Control Loop) htrol Loop	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP ings PB
Other primary features available on request.         Additional Features         No Additional Features         Accelerated Closing (1½"-3")         Electric Valve, without Solenoid         Hydraulic Relay         Normally Closed with Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Solenoid Controlled         Modulating Horizontal Float         Modulating Horizontal Float,         Now Pressure Systems         Internal Feed & Bleed with Electric Cover         External Feed & Internal Bleed with Electric Cover for 1         Low Pressure PRV         Pattern (Available Sizes)         Dblique       (all sizes)         Angle       (3" & 3"L/4")	110-2W/3W	00 04 05 50 54 55 60 6L N1 V N5 LP V N5 LP V Code Y	24VAC -24VDC -24VDC -12VDC -12VDC -12VDC -9VDC -Other electrTubing &Plastic TubPlastic ReAdditionalServo (2/3)3-way ConDifferentialExternal C	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt A Attributes Unlimited Sele S-way Control Loop) Introl Loop I Pressure Duct (2"-4") Control Pressure Iti-Freeze Valve	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. Code PP ings PB
Other primary features available on request.         Additional Features         No Additional Features         Accelerated Closing (1½"-3")         Electric Valve, without Solenoid         Hydraulic Relay         Normally Closed with Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Solenoid Controlled         Modulating Horizontal Float         Modulating Horizontal Float,         .ow Pressure Systems         Internal Feed & Bleed with Electric Cover         External Feed & Internal Bleed with Electric Cover for :         .ow Pressure PRV         Pattern (Available Sizes)         Dblique       (all sizes)         Angle       (3" & 3"L/4")         Tee       (3", Horn Outlets)		00       04       05       50       54       55       60       6L       N1       V       N5       LP       ✓       Code       Y       A       T	24VAC24VDC24VDC24VDC12VDC12VDC12VDC12VDC9VDC0ther electricTubing & Plastic Tub Plastic ReAdditional Servo (2/3) 3-way Con Differential External C Drain & Ar	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt A Attributes Unlimited Sele B-way Control Loop) Introl Loop I Pressure Duct (2"-4") control Pressure nti-Freeze Valve sembly	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. Code PP ings PB
Other primary features available on request.         Additional Features         No Additional Features         Accelerated Closing (1½"-3")         Electric Valve, without Solenoid         Hydraulic Relay         Normally Closed with Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Solenoid Controlled         Modulating Horizontal Float         Modulating Horizontal Float,         Low Pressure Systems         Internal Feed & Bleed with Electric Cover         External Feed & Internal Bleed with Electric Cover for "         Low Pressure PRV         Pattern (Available Sizes)         Dblique       (all sizes)         Angle       (3", & 3"L/4")         Fee       (3", Horn Outlets)		00       04       05       50       54       55       60       6L       N1       V       N5       LP       ✓       Code       Y       A       T	24VAC24VDC24VDC24VDC12VDC12VDC12VDC12VDC9VDC0ther electricTubing & Plastic Tub Plastic ReAdditional Servo (2/3) 3-way Con Differential External C Drain & Ar Orifice Ass	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt I Attributes Unlimited Sele s-way Control Loop) ntrol Loop I Pressure Duct (2"-4") control Pressure nti-Freeze Valve sembly	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. Code PP ings PB
Other primary features available on request.         Additional Features         Accelerated Closing (1½"-3")         Electric Valve, without Solenoid         Hydraulic Relay         Normally Closed with Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Solenoid Controlled         Modulating Horizontal Float         Modulating Horizontal Float,         Low Pressure Systems         Internal Feed & Bleed with Electric Cover         External Feed & Internal Bleed with Electric Cover for '         Low Pressure PRV         Pattern (Available Sizes)         Oblique       (all sizes)         Angle       (3", 40rn Outlets)         Dual Actuated Tee (3", Male Threaded or Height		00 04 05 50 54 55 60 6L N1 V N5 LP V N5 LP V V N5 LP V V A T T tsts) D	24VAC24VDC24VDC24VDC12VDC12VDC12VDC12VDC9VDCOther electrTubing & Plastic Tub Plastic ReAdditional Servo (2/3) 3-way Con Differential External C Drain & Ar Orifice Ass Flow Stem Manual Set	Normally Open Normally Closed Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt I Attributes Unlimited Sele s-way Control Loop) ntrol Loop I Pressure Duct (2"-4") control Pressure nti-Freeze Valve sembly	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP ings PB
Other primary features available on request.         Additional Features         No Additional Features         Accelerated Closing (1½"-3")         Electric Valve, without Solenoid         Hydraulic Relay         Normally Closed with Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Normally Closed with PC Hydraulic Relay         Solenoid Controlled         Modulating Horizontal Float         Modulating Horizontal Float,         Low Pressure Systems         Internal Feed & Bleed with Electric Cover         External Feed & Internal Bleed with Electric Cover for '         Low Pressure PRV         Pattern (Available Sizes)         Oblique       (all sizes)         Angle       (3" & 3"L/4")		00       04       05       50       54       55       60       6L       N1       V       N5       LP       V       Code       Y       A       T       pts)	24VAC         24VDC         24VDC         24VDC         12VDC         12VDC         12VDC         12VDC         12VDC         9VDC         Other electro         Tubing &         Plastic Tub         Plastic Tub         Plastic Re         Additional         Servo (2/3)         3-way Cool         Differential         External C         Drain & Arr         Orifice Ass         Flow Sterm         Manual Se         Low Prese	Normally Open Normally Closed Normally Open Normally Open Normally Open Latch Solenoid S-985 (3 Le Latch Solenoid S-982 (2 Le Latch Solenoid S-982 (2 Le Latch Solenoid rical ratings available on reques Fittings Ding & Fittings (standard) inforced Tubing & Brass Fitt I Attributes Unlimited Sele S-way Control Loop I Pressure Duct (2"-4") control Pressure nti-Freeze Valve sembly n	4AC 4DC 4DC 1DC 2ads) 1DS 2DS 9DS tt. <b>Code</b> PP ings PB

**300 Series Double Chamber Hydraulic Control Valves** 



#### Plastic Hydraulic/Electric Control Valves

200 Series



Other additional attributes are optional. Please consult Custor Service for further information.



2

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400 Series Diaphragm Hydraulic Control Valves

**Double Chamber Hydraulic Control Valves** 

300 Series

IR 2" 320	55	Y PP B			PCP 4AC PP		
							-
			¥.			¥	
Size		Cover Material	Cod	е	Voltage-Main Valve Position	Code	
1½" DN40 (Brass or Plastic)		Plastic	P		(When Solenoid De-Energized)	Code	
2" DN50 (Brass)					24VAC - Normally Closed	4AC	
3" DN80 (Cast Iron-Green)					24VAC - Normally Open	4AO	
					24VDC - Normally Closed	4DC	
					24VDC - Normally Open	4DO	
					12VDC - Normally Closed	1DC	
					12VDC - Normally Open	1DO	
			_		S-985 (3 Leads)	1DS	
Primary Features	<b>▼</b> Code	End Connections	Code	9	12VDC - Latch Solenoid S-982 (2 Leads)	2DS	
Basic Valve (Double-Chambered)	300		od		9VDC - Latch Solenoid	9DS	
Basic Valve (Single-Chambered)	305	(1½"-3")	DP	_	Other electrical ratings available on requ	uest.	
Solenoid Controlled Valve	310	BSP Female Thread (1½"-3") NPT Female Thread (1½"-3")	ed NP				
Pressure Reducing Valve	320	È (1½"-3") BST-D	BD	-		<b>v</b>	
Pressure Sustaining Valve	330			-	Tubing & Fittings	Code	
		11010011					
Quick Pressure Relief Valve	33Q	B ISO 14 (ISO 10/4 Holes)	က် 14		Plastic Tubing & Fittings	PP	
Quick Pressure Relief Valve Level Control Valve	33Q 350	ISO 14 (ISO 10/4 Holes) ANSI 125	က် A1		Plastic Reinforced Tubing &		
Level Control Valve	350	ANSI 125 ABNT 10	ι			PP PB	
	350		က် A1		Plastic Reinforced Tubing & Brass Fittings Other tubing and fittings available on request. Additional Attributes Unlimite	PB	•
Level Control Valve Other primary features available on request Additional Features	350	ABNT 10	<ul> <li>m</li> <li>A1</li> <li>B1</li> </ul>		Plastic Reinforced Tubing & Brass Fittings Other tubing and fittings available on request.	PB	ode
Level Control Valve Other primary features available on request Additional Features	350 ↓ Code	ABNT 10 Control Type	m A1 B1 ↓ Code		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)	PB	b
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature	350 ▼ Code 00	ABNT 10 Control Type 2-Way	<ul> <li>A1</li> <li>B1</li> <li>✓</li> <li>Code</li> <li>2W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop	PB	b X
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay	350 <b>Code</b> 00 20 50	ABNT 10 Control Type 2-Way 3-Way	<ul> <li>↔</li> <li>▲1</li> <li>▶1</li> <li>♥</li> <li>Code</li> <li>2W</li> <li>3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories	ed Co	b X R
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela	350 <b>Code</b> 00 20 50	ABNT 10 Control Type 2-Way 3-Way	<ul> <li>↔</li> <li>▲1</li> <li>▶1</li> <li>♥</li> <li>Code</li> <li>2W</li> <li>3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)	ed Co	b X
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela Solenoid Controlled Modulating Horizontal Float	350 Code 00 20 50 ay 54 55 60	ABNT 10 Control Type 2-Way 3-Way	<ul> <li>↔</li> <li>▲1</li> <li>▶1</li> <li>♥</li> <li>Code</li> <li>2W</li> <li>3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals	ed Co	b X R
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela Solenoid Controlled Modulating Horizontal Float Bi-Level Electric Float	350 Code 00 20 50 xy 54 55 60 65	ABNT 10 Control Type 2-Way 3-Way	<ul> <li>↔</li> <li>▲1</li> <li>▶1</li> <li>♥</li> <li>Code</li> <li>2W</li> <li>3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm	ed Co	b X R B E
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela Solenoid Controlled Modulating Horizontal Float Bi-Level Electric Float	350 Code 00 20 50 ay 54 55 60	ABNT 10 Control Type 2-Way 3-Way	<ul> <li>↔</li> <li>▲1</li> <li>▶1</li> <li>♥</li> <li>Code</li> <li>2W</li> <li>3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals	ed Co	b X R B
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela Solenoid Controlled Modulating Horizontal Float Bi-Level Electric Float	350 Code 00 20 50 xy 54 55 60 65	ABNT 10 Control Type 2-Way 3-Way	<ul> <li>↔</li> <li>▲1</li> <li>▶1</li> <li>♥</li> <li>Code</li> <li>2W</li> <li>3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring	ed Co	b X R B E K
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela Solenoid Controlled Modulating Horizontal Float Bi-Level Electric Float	350 Code 00 20 50 xy 54 55 60 65	ABNT 10 Control Type 2-Way 3-Way	<ul> <li>↔</li> <li>▲1</li> <li>▶1</li> <li>♥</li> <li>Code</li> <li>2W</li> <li>3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure	PB	b X R B E K
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela Solenoid Controlled Modulating Horizontal Float Bi-Level Electric Float Normally Closed (Hydraulic)	350 Code 00 20 50 ay 54 55 60 65 NC	ABNT 10 Control Type 2-Way 3-Way 2/3-Way	<ul> <li>m</li> <li>A1</li> <li>B1</li> <li>Code</li> <li>2W</li> <li>3W</li> <li>2/3W</li> <li>2/3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring	PB Co Co Co Co Co Co Co Co Co Co Co Co Co	b X B E K e L
Level Control Valve Other primary features available on request Additional Features No Additional Features Check Feature Hydraulic Relay Normally Closed with Hydraulic Rela Solenoid Controlled Modulating Horizontal Float Bi-Level Electric Float Normally Closed (Hydraulic)	350 Code 00 20 50 39 55 60 65 65 80 65 NC	ABNT 10 Control Type 2-Way 3-Way 2/3-Way 2/3-Way	<ul> <li>m</li> <li>A1</li> <li>B1</li> <li>Code</li> <li>2W</li> <li>3W</li> <li>2/3W</li> <li>2/3W</li> </ul>		Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Stem	PB	b X B E K e L M
Level Control Valve         Other primary features available on request         Additional Features         No Additional Features         Check Feature         Hydraulic Relay         Normally Closed with Hydraulic Rela         Solenoid Controlled         Modulating Horizontal Float         Bi-Level Electric Float         Normally Closed (Hydraulic)         Pattern       Cc         Oblique       N	350 Code 00 20 50 37 55 60 65 65 80 65 NC	ABNT 10          Control Type         2-Way         3-Way         2/3-Way             Mini Pilot Material         Plastic       PC	Code Code 2W 3W 2/3W	ard)	Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Stem         Flow Over-the-Seat	PB	b X B E K e L M O
Level Control Valve         Other primary features available on request         Additional Features         No Additional Features         Check Feature         Hydraulic Relay         Normally Closed with Hydraulic Rela         Solenoid Controlled         Modulating Horizontal Float         Bi-Level Electric Float         Normally Closed (Hydraulic)         Pattern       Cco         Oblique       N         Oblique Plastic (1.5")       Y	350 Code 00 20 50 4y 54 55 60 65 NC NC	ABNT 10          Control Type         2-Way         3-Way         2/3-Way             Mini Pilot Material         Plastic       PC	<ul> <li>m</li> <li>A1</li> <li>B1</li> <li>Code</li> <li>2W</li> <li>3W</li> <li>2/3W</li> <li>2/3W</li> </ul>	ard)	Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Over-the-Seat         Industrial Internal Trim (S.S. Trino)         Orifice Assembly         Conic Throttling Disc	PB	b X R B E K e C U U V
Level Control Valve         Other primary features available on request         Additional Features         No Additional Features         Check Feature         Hydraulic Relay         Normally Closed with Hydraulic Rela         Solenoid Controlled         Modulating Horizontal Float         Bi-Level Electric Float         Normally Closed (Hydraulic)         Pattern       Cco         Oblique       N         Oblique Plastic (1.5")       Y	350 Code 00 20 50 37 55 60 65 65 80 65 NC	ABNT 10          Control Type         2-Way         3-Way         2/3-Way             Mini Pilot Material         Plastic       PC	Code Code 2W 3W 2/3W	ard)	Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Over-the-Seat         Industrial Internal Trim (S.S. Trin         Orifice Assembly	PB	b X R B E K e L L M O T U
Level Control Valve         Other primary features available on request         Additional Features         No Additional Features         Check Feature         Hydraulic Relay         Normally Closed with Hydraulic Rela         Solenoid Controlled         Modulating Horizontal Float         Bi-Level Electric Float         Normally Closed (Hydraulic)         Pattern       Cco         Oblique       N         Oblique Plastic (1.5")       Y	350 Code 00 20 50 4y 54 55 60 65 NC NC	ABNT 10          Control Type         2-Way         3-Way         2/3-Way             Mini Pilot Material         Plastic       PC	Code Code 2W 3W 2/3W	ard)	Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Stem         Flow Over-the-Seat         Industrial Internal Trim (S.S. Trin         Orifice Assembly         Conic Throttling Disc         "Y" Control Strainer         Drain & Anti-Freeze Valve	PB	b X R B E K e C U U V Y f
Level Control Valve         Other primary features available on request         Additional Features         No Additional Features         Check Feature         Hydraulic Relay         Normally Closed with Hydraulic Rela         Solenoid Controlled         Modulating Horizontal Float         Bi-Level Electric Float         Normally Closed (Hydraulic)         Pattern       Cco         Oblique       N         Oblique Plastic (1.5")       Y	350 Code 00 20 50 4y 54 55 60 65 NC NC	ABNT 10          Control Type         2-Way         3-Way         2/3-Way             Mini Pilot Material         Plastic       PC	Code Code 2W 3W 2/3W	ard)	Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Over-the-Seat         Industrial Internal Trim (S.S. Trin         Orifice Assembly         Conic Throttling Disc         "Y" Control Strainer         Drain & Anti-Freeze Valve         Manual Selector	PB	b X R B E K e C V U V V Y f f Z
Level Control Valve         Other primary features available on request         Additional Features         No Additional Features         Check Feature         Hydraulic Relay         Normally Closed with Hydraulic Rela         Solenoid Controlled         Modulating Horizontal Float         Bi-Level Electric Float         Normally Closed (Hydraulic)         Pattern       Cco         Oblique       N         Oblique Plastic (1.5")       Y	350 Code 00 20 50 4y 54 55 60 65 NC NC	ABNT 10          Control Type         2-Way         3-Way         2/3-Way             Mini Pilot Material         Plastic       PC	Code Code 2W 3W 2/3W	ard)	Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Over-the-Seat         Industrial Internal Trim (S.S. Trintorifice Assembly         Conic Throttling Disc         "Y" Control Strainer         Drain & Anti-Freeze Valve         Manual Selector         Low Preset Pressure (below 2	PB	b X R B E K e L L U V V Y f Z 2
Level Control Valve         Other primary features available on request         Additional Features         No Additional Features         Check Feature         Hydraulic Relay         Normally Closed with Hydraulic Rela         Solenoid Controlled         Modulating Horizontal Float         Bi-Level Electric Float         Normally Closed (Hydraulic)         Pattern       Cco         Oblique       N         Oblique Plastic (1.5")       Y	350 Code 00 20 50 4y 54 55 60 65 NC NC	ABNT 10          Control Type         2-Way         3-Way         2/3-Way             Mini Pilot Material         Plastic       PC	Code Code 2W 3W 2/3W	ard)	Plastic Reinforced Tubing & Brass Fittings         Other tubing and fittings available on request.         Additional Attributes Unlimited Selection         Servo (2/3-Way Control Loop)         3-Way Control Loop         Metal Control Accessories         Double-Chambered (Active)         Special Elastomers Seals         & Diaphragm         Auxiliary Closing Spring         External Control Pressure         Lifting Spring         Flow Over-the-Seat         Industrial Internal Trim (S.S. Trin         Orifice Assembly         Conic Throttling Disc         "Y" Control Strainer         Drain & Anti-Freeze Valve         Manual Selector	PB	b X R B E K e C V U V V Y f f Z

Other additional attributes are optional. Please consult Customer Service for further information.



3

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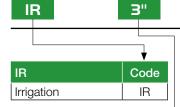
700 Series Hydraulic Control Valves for Waterworks Systems

420

55

00

#### **Diaphragm Hydraulic Control Valves**



¥		
Size		
3⁄4"	DN20	On/Off
1"	DN25	
11⁄2"	DN40	
2"	DN50	
21⁄2"	DN65	
3"R	DN80R	
3"	DN80	
4"	DN100	
5"R	DN125R	
6"	DN150	
6"R	DN150R	
8"	DN200	
10"	DN250	
12"	DN300	Ductile
14"	DN350	Iron
16"	DN400	

	V
Primary Features	Code
Basic Valve	405
Solenoid Controlled Valve	410
Electronic Control Valve	418
Pressure Reducing Valve	420
Pressure Reducing & Sustaining Valve	423
Flow Control Valve, Constant Downstream Pressure	427
Pressure Reducing with Flow Limiter	42F
Pressure Sustaining Valve	430
Differential Pressure Sustaining Valve	436
Pressure Sustaining with Flow Limiter	43F
Quick Pressure Relief Valve	43Q
Level Control Valve	450
Level Control & Pressure Sustaining Valve	453
Level & Flow Control Valve	457
Flow Control Valve	470
Flow Control & Pressure Reducing Control Valve	472
Flow Control & Pressure Sustaining Control Valve	473
Flow Control, Pressure Reducing & Sustaining Valve	475

	V
Additional Features (Multiple Choices Permitted)	Code
No Additional Feature	00
Closing-Speed-Control	01
Closing and Opening-Speed-Control	03
Accelerated Closing	04
Hydraulic Override	09
Electronic Control	18
Check Feature	20
Solenoid Controlled & Check Feature	25
Two-Stage Opening	30
Two-Stage Opening & Electric Control	35
Relief Override	3Q
Electrically Selected Multi-Level Setting	45
Downstream Over Pressure Guard	48
Closing Surge Prevention	49
Hydraulic Relay	50
Normally Closed with Hydraulic Relay	54
Normally Closed with PC Hydraulic Relay	54X
Solenoid Controlled	55
Electric Override	59
Modulating Horizontal Float	60
Bi-Level Electric Float	65
Bi-Level Vertical Float	66
Other additional features available on request	

Other primary features available on request.

Pattern	Code
Globe	G
Angle (2" - 4")	A

Construction Materials	Code
Cast Iron (up to 8")	I
Ductile Iron	С

Other materials available on request.



4

900-M Series Hydrometers with Magnetic Drive

400 Series

G

400 Series

XZ5

l	6 PG			4AC	
			•		
	End Connections		Code		Tubing & Fitti
Threaded	BSP Female Threaded	2/" 0"	BP		Plastic Tubing
Thread	NPT Female Threaded	3⁄4"-3"	NP		Plastic Reinfor
	ISO-10		10		Copper Tubing
	ISO-16	16			
	IS 14 (ISO 10/4 Holes, 3")	14			
g	ANSI-125	A1		Additional At	
Flanged	ANSI-150		A5		Servo (2/3-Wa
Ē	BST-D		BD		3-Way Contro
	JIS-10		J1		Plastic Contro
	ABNT-10		B1		Metal Control
	ABNT-16		B6		External Control
Grooved	ANSI C 606-81, Steel Pipe (Globe - 2", 3", 4" & 6"; Angle - 3	3" & 4")	VI		Large Control Drain & Anti-F
Ō		,			Valve Position

Other end connections available on request.

Coating	Code
Polyester Green RAL 6017	PG

Voltage-Main Valv (When Solenoid D		Code
24VAC, with Diode	- Normally Closed	4AC
24VAC, with Diode	- Normally Open	4AO
24VAC	- Last Position	4AP
24VAC	- Normally Closed	4RC
24VAC	- Normally Open	4RO
24VDC	- Normally Closed	4DC
24VDC	- Normally Open	4DO
24VDC	- Last Position	4DP
12VDC	- Normally Closed	1DC
12VDC	- Normally Open	1DO
12VDC	- Last Position	1DP
12VDC	- Latch Solenoid S-985 (3 Leads)	1DS
12VDC	- Latch Solenoid S-982 (2 Leads)	2DS
9VDC	- Latch Solenoid	9DS

Other electrical ratings available on request.

	<b></b>
Tubing & Fittings	Code
Plastic Tubing & Fittings	PP
Plastic Reinforced Tubing & Brass Fittings	PB
Copper Tubing & Brass Fittings	CB

PP

Additional Attributes Unlimited Selection	Code
Servo (2/3-Way Control Loop)	b
3-Way Control Loop	Х
Plastic Control Accessories	K
Metal Control Accessories	R
External Control Pressure	е
Large Control Filter	F
Drain & Anti-Freeze Valve	f
Valve Position Indicator *	I
Flow Stem *	М
Electric Limit Switch *	S
Differential Pressure Duct (2"-8")	D
Orifice Assembly	U
Paddle Flow Control Pilot	V
Manual Selector	Z
Low Preset Pressure (below 2 bar)	2
High Upstream Pressure (above 10 bar)	3
Plastic Pressure Test Point	5
Pressure Gauge	6
* Standard Irrigation Cover & Diaphragm are unfitted to	

\* Standard Irrigation Cover & Diaphragm are unfitted to Attributes I, M, S.

Other additional attributes are optional.

Please consult Customer Service for further information.



Order all Bermad products from www.irrigationglobal.com 400 Series Diaphragm Hydraulic Control Valves

6"

#### Hydraulic Control Valves for Waterworks Systems

WW-700 Series

C

# ww

	•
Sector	Code
Waterworks	WW
Drinking Water	WD
WW Aggressive Water	WA
WW Seawater	WS
WW Air Conditioning	WC
WW Hot Water	WH

	V		
Pattern	Code	<b>;</b>	
Oblique (1 <sup>1</sup> /2-20")	Y		
Angle (1 <sup>1</sup> /2-18")	А		
Globe (24-36")	G		•
Construction Mat	erials	(	Code
Construction Mat	erials	C	Code C
	erials	(	
Ductile Iron		(	С
Ductile Iron Cast Steel		0	S

55

720

Other materials available on request.

			•
Size		Primary Feature	Code
<b>1</b> <sup>1</sup> / <sub>2</sub> "	DN40	Basic Valve (Double Chambered Actuator)	700
2"	DN50	Basic Valve (Single Chambered Actuator)	705
- 2 <sup>1</sup> /2"	DN65	Solenoid Controlled Valve	710
3"	DN80	Electronic Control Valve	718
4"	DN100	Pressure Management Valve, Flow Compensated PRV	7PM
5"	DN125	Pressure Reducing Control Valve	720
6"	DN150	Pressure Reducing & Sustaining Valve	723
8"	DN200	Differential Pressure Reducing Valve	726
10"	DN250	Flow Control Valve, Constant Downstream Pressure	727
12"	DN300	Pressure Sustaining Valve	730
14"	DN350	Pressure Relief Valve, Quick Type	73Q
		Pressure Sustaining Valve Remote Sensing Type	730R
16"	DN400	Surge Anticipating Valve	735
18"	DN450	Differential Pressure Sustaining Valve	736
20" 24"	DN500 DN600	Booster Pump Control Valve, Single Chambered Actuator	740
24	DN700	Booster Pump Control Valve,	74Q
30"	DN750	Double Chambered Actuator	
32"	DN800	Booster Pump Control & Pressure Reducing Valve	742
36"	DN900	Booster Pump Control & Pressure Sustaining Valve	743
30	DIABOO	Deep Well Pump Hydraulic Control Valve	744
		Deep Well Pump Electric Control Valve	745
		Booster Pump & Flow Control Valve	747
		Pump Circulation & Pressure Sustaining Valve	748
		Pump Circulation & Flow Control Valve	749
		Level Control Valve	750
		Level Control & Pressure Sustaining Valve	753
		Level & Flow Control Valve	757
		Level Sustaining Valve (Reservoir Outlet)	75A
		Hydraulic Check Valve	760
		Flow Control Valve	770
		Flow Control & Pressure Reducing Valve	772
		Flow Control & Pressure Sustaining Valve	773
		Flow Control, Pressure Reducing & Sustaining Valve	775
		Burst Control Valve (Excessive Flow)	790
		Burst Control & Pressure Reducing Valve	792
		Check Valve (Lift Type)	70N
		Strainer (Stone and Gravel Trap)	70F

Addit	tional Feature	
	iple Options Permitted)	Code
	dditional Feature	00
	ng and Opening Speed Control	03
	ential Pressure	06
Hydra	aulic Override	09
	k-Lock	11
High	Sensitivity Pilot	12*
	onic Control	18
	k Feature	20
Indep	endent Flow Check (24-32" only)	2S
	oid Controlled & Check Feature	25
	ure Reducing Feature	2Q
	Stage Opening	30
	Override	3Q
	ically Selected Multi-Level Setting	45
	stream Over Pressure Guard	48
	ng Surge Prevention	49
	rized Pilot	4S
Electr	onic Multi-Level Setting - Type 4R	4R
	onic Multi-Level Setting - Type 4T	4T
	y Hydraulic Relay	50
	y Hydraulic Relay	54
	oid Controlled	55
	ic Override	59
	Ilating Horizontal Float	60
	vel Electric Float	65
	vel Vertical Float	66
	Ilating Vertical Float	67
	rectional Flow	70
	de Pilot	80*
	Ilating Altitude Control	82*
	ining Altitude Pilot	83*
	aulic Positioning	85*
	vel Altitude Control	86*
	de Control with Bi-Directional Flow	87*
	2-6 meter; 7-20 feet Setting	 M1
lange	2-14 meter; 7-46 feet Setting	M6
	5-22 meter; 17-72 feet Setting	M5
Setting I	15-35 meter; 49-115 feet Setting	M4
Set	25-70 meter; 82-230 feet Setting	M8
	ng at Downstream Pressure Drop	91
	ation Cage	C1
	le Cavitation Cage	C2
	Chamber Valve	TC
	Mounted Control	L1
	_ow Flow By-Pass	2B
	ortional	PD
	additional features available on request.	. ບ

Other additional features available on request. \* Select Setting Range

Other primary features available on request.



6

Hydraulic Control Valves for Waterworks Systems

PG

### WW-700 Series

			•
En	d Connection		Code
	ISO-PN10		10
	ISO-PN16		16
	ISO-PN25		25
σ	ANSI-#150		A5
-langed	ANSI-#300		A3
-lar	BST-D		BD
	JIS-7.5	J7	
	JIS-10		J1
	JIS-16		J6
	JIS-20		J2
ğ	BSP	<b></b>	BP
Threaded	BSP-25 bar	up to 3")	PH
Jre	NPT	þt	NP
É	NPT-25 bar	2	NH

16

Other end connections available on request.

#### Reduction Ratios Table

Valve Size	Plug	Туре
valve Size	Flat Disk	V-Port
1 <sup>1</sup> / <sub>2</sub> - 2 <sup>1</sup> / <sub>2</sub> " DN40 - 65	3.7	4
3" DN80	2.6	2.9
4" DN100	2.5	2.8
6" DN150	2.5	2.7
8" DN200	2.4	2.6
10" DN250	2.3	2.5
12-14" DN300 - 350	2.2	2.4
16-20" DN400 - 500	2.2	2.3
24-36" DN600 - 900	2.2	2.3

Val	too	je-Main Valve Posi	tion	, v
		Solenoid De-ene	rgized)	Code
		24VAC/50Hz	- Normally Closed	4AC
		24VAC/50Hz	- Normally Open	4AO
	AC	24VAC/50Hz	- Last Position	4AP
	A	24VAC/60Hz	- Normally Closed	46C
24V		24VAC/60Hz	- Normally Open	460
5		24VAC/60Hz	Last Position	46P
		24VDC	- Normally Closed	4DC
	DC	24VDC	- Normally Open	4DO
		24VDC	Last Position	4DP
		24VDC	Latch Solenoid	4DS
		220VAC/50-60Hz	- Last Position	2AP
	AC	220VAC/50-60Hz	- Normally Closed	2AC
220V		220VAC/50-60Hz	- Normally Open	2AO
22		220VDC	- Normally Closed	2DC
	2	220VDC	- Normally Open	2DO
		220VDC	Latch Solenoid	2DS
	AC	110VAC/50-60Hz	- Normally Closed	5AC
	◄	110VAC/50-60Hz	- Normally Open	5AO
110		110VDC	- Normally Closed	5DC
	В	110VDC	- Normally Open	5DO
		110VDC	Latch Solenoid	5DS
		12VDC	- Normally Closed	1DC
2V	2	12VDC	- Normally Open	1DO
÷		12VDC	- Last Position	1DP
		12VDC	Latch Solenoid	1DS

4AC

Tubing & Fittings	Code			
Copper Tubing & Brass Fittings	СВ			
St. St. 316 Tubing & Fittings	NN			
Plastic Reinforced Tubing & Brass Fittings	PB			
Monel Tubing & Fittings	MM			
<u> </u>			,	
Additional Attributes				
(Multiple Options Permitted)		Co	de	
V-Port Throttling Plug		Ιv	/	
Large Control Filter		F	:	
Valve Position Indicator		1		
Electric Limit Switch		S	;	
Valve Position Transmitter		G		
Flow Stem		N	1	
Lifting Spring				
Balancing Piston Assembly				
Orifice Assembly		ι	J	
Pressure Separator		d		
Double Chambered (Active)		E	3	
External Control Pressure		e	)	
3-Way Control				
Manual Selector		Z	<u>_</u>	
Flow Over the Seat		C	)	
St. St. 316 Control Accessories		N	1	
St. St. 316 Actuator Internal Ass			)	
St. St. 316 Internal Trim (Closure	& Seat)	Т		
Delrin Bearing		F	{	
PVDF Bearing		r K		
High Grade Bearing & Stem				
St. St 316. Bolts & Nuts		m	۱	
Special Elastomers for Seals & Diaphragm		E	:	
Pressure Gauge		6	;	
Other additional attributes are optional.				

NN

Please consult our sales department for further information.

	V
Coating	Code
Polyester Green RAL 6017	PG
Epoxy FB Blue RAL 5005	EB
Polyester Blue RAL 5010	PB
Uncoated	UC

#### Other coatings available on request.

The reduction ratios are based on flow velocity of 2.0-3.0 m/sec.

 Reduction ratio may vary at extreme flow velocity & upstream pressure.



#### Order all Bermad products from www.irrigationglobal.com 700 Series Hydraulic Control Valves for Waterworks Systems

### Hydrometers with Magnetic Drive

900-M Series

16

Code

ΒP

NP

BS ΗP JB 10 16 14 A1 A5 ΒD J1 B1 B6 SD SE

VI

				<u> </u>		
Sector Code		Control Categories Code			End Connections	
Irrigation IR		Hydrometer with Magnetic Drive Command Hydrometer with Magnetic Drive			BSP Female Threader (1½"-3"R Globe & 2" Angle)	
<b>V</b>		Command & V-Port			NPT Female Threaded (11/2"-3"R Globe & 2"	1
Size		Additional Features	Code		(11/2"-3"R Globe & 2" Angle) BSP-U Male Threaded	
1 <sup>1</sup> / <sub>2</sub> " * DN40 *		No Additional Feature	00	<del> </del>	BSP-U Male Threader	1
2" DN50		Closing Speed-Control	01		Hydrant 2½" x BSP	
2 <sup>1</sup> / <sub>2</sub> " DN65		Closing and Opening Speed-Control	03		Flange (JIS-10)	
3"R * DN80R *		Hydraulic Override	09		inlet x BSP outlet	
3" DN80		Electronic Control	18		ISO-10	
4" DN100		Check Feature	20		ISO-16	
6" DN150		Solenoid Controlled & Check Feature	25		ISO-14	
8" DN200		Two-Stage Opening	30	Ĩ	(ISO 10/4 Holes, 3")	
10" * DN250 *		Electrically Selected		T	ANSI-125	_
* Globe only		Multi-Level Setting	45			
		Downstream Over Pressure Guard	48		BST-D D JIS-10	_
	•	Closing Surge Prevention	49		DIS-10	
Primary Features	Code	Hydraulic Relay	50		ABNT-10	_
Basic	900	Normally Closed with Hydraulic Relay	54		ABNT-16	
Basic Low Pressure	90L	Normally Closed with PC Hydraulic Relay	54X		AST-D	_
Water Meter	901	Solenoid Controlled	55		AST-E	
Basic with Flow Limiter	90F	Electric Override	59		ANSI C 606-81, Steel Pipe (3", 4" & 6")	
Solenoid Controlled Valve	910	Modulating Horizontal Float	60		Pipe (3", 4" & 6")	
Electronic Control Valve	918	Bi-Level Electric Float	65			e on
Pressure Reducing Valve	920	Bi-Level Vertical Float	66	r	equest.	
Pressure Reducing with Flow Limiter	92F	Modulating Vertical Float	67			
Pressure Reducing & Sustaining Valve	923	Mechanical Float Type A	0A			
Flow Control Valve, Constant	927	Flow Control By Flow Limiter	0F			
Downstream Pressure	-	Other additional features available on request.				
Pressure Sustaining Valve	930					
Pressure Sustaining with Flow Limiter	93F					
Level Control Valve	950		•			
Level Control with Flow Limiter	95F	Pattern	Code			
Level Control - Low Pressure	95L	Globe	G			
Level Control & Pressure Sustaining Valve	953	Angle (2", 3", 4", 6" & 8")	A			
Level & Flow Control	957	Hydrant-Angle 120° (2½" & 4")	H			
Flow Control Valve	970					
Flow Control & Pressure Reducing Control Valve	972			<b>V</b>	_	
Flow Control & Pressure Sustaining	973	Construction Materials	С	ode	e	
Control Valve Flow Control, Pressure Reducing	570	Cast Iron (11/2"-3"R Globe Threaded)	Ì	I.		

Other primary features available on request.



8

#### Hydrometers with Magnetic Drive

900-M Series

PG 4AC		PP	WAT		RO3	K
	ode PG	Dial Capacity Hydrometer	Code WAT			
Voltage Main Valve Position	Code	Pulse Type	Pulse Rate m <sup>3</sup>	Code	Additional Attributes	Co
24VAC, with Diode - Normally Closed	4AC	No Pulse	No Pulse m <sup>3</sup> Reed 0.01 m <sup>3</sup>	RNP R01	Unlimited Selection 3-Way Control Loop	>
24VAC, with Diode - Normally Open	4AO	Reed Switch 1 Pulse	Reed 0.1 m <sup>3</sup> Reed 1 m <sup>3</sup>	R02 R03	Plastic Control Accessories Metal Control	ł
24VAC - Last Position	4AP		Reed 10 m <sup>3</sup>	R04	Accessories	F
24VAC - Normally Closed	4RC	Reed Switch	Reed 0.1 m <sup>3</sup> + 0.01 m <sup>3</sup> Reed 1 m <sup>3</sup> + 0.1 m <sup>3</sup>	R12 R23	PVDF Guide	
24VAC - Normally Open 24VDC - Normally Closed	4RO 4DC	2 Pulses	Reed 10 m <sup>3</sup> + 1 m <sup>3</sup>	R34	Homologation Approved BSP-U Union Records	
24VDC - Normally Open	4D0		Opto 0.001 m <sup>3</sup>	P01	Assembly	1
24VDC - Last Position	4DP	Opto Sensor	Opto 0.01 m <sup>3</sup>	P10	Calibration	
12VDC - Normally Closed	1DC		0.001 m <sup>3</sup> Opto + 0.1 m <sup>3</sup> Reed	PQ1	Orifice Assembly	
12VDC - Normally Open	1DO	Opto + Reed	0.001 m <sup>3</sup> Opto + 1 m <sup>3</sup> Reed	P03	Paddle Flow Control Pilot	-
12VDC - Last Position	1DP	Opto + Need	0.01 m <sup>3</sup> Opto + 1 m <sup>3</sup> Reed	P13	Drain & Anti-Freeze Valve	-
12VDC - Latch Solenoid	1DS		0.01 m <sup>3</sup> Opto + 10 m <sup>3</sup> Reed	P14	Large Control Filter Y Control Strainer	
Latch Solenoid					Manual Selector	
12VDC - S-982 (2 Leads)	2DS	Pulse Type	Pulse Rate U.S. Gallon	Code	Low Preset Pressure	
9VDC - Latch Solenoid	9DS	No Pulse	No Pulse Gal	RNG	(below 2 bar)	
Other electrical ratings available on requ	uest.		Reed 1 Gal	RG3	High Upstream Pressure (above 10 bar)	:
		Reed Switch	Reed 10 Gal	RG4	Plastic Pressure Test	
		1 Pulse	Reed 100 Gal	RG5	Point	
			Reed 1,000 Gal Reed 10 Gal + 1 Gal	RG6	Pressure Gauge	(
	¥	Reed Switch	Reed 10 Gal + 1 Gal Reed 100 Gal + 10 Gal	G34 G45	Other additional attributes are op Please consult Customer Service	
Tubing & Fittings	Code	2 Pulses	Beed 1 000 Gal $\pm$ 10 Gal	G46	further information.	

	<b>t</b>
Tubing & Fittings	Code
Plastic Tubing & Fittings	PP
Plastic Reinforced Tubing & Brass Fittings	PB
Copper Tubing & Brass Fittings	СВ

Pulse Type	Pulse Rate U.S. Gallon	Code				
No Pulse	No Pulse Gal	RNG				
	Reed 1 Gal	RG3				
Reed Switch	Reed 10 Gal	RG4				
1 Pulse	Reed 1 Gal           Reed 10 Gal           Reed 100 Gal           Reed 1,000 Gal           Reed 10 Gal + 1 Gal           Reed 100 Gal + 10 Gal           Reed 1,000 Gal + 10 Gal           Reed 1,000 Gal + 10 Gal           Reed 1,000 Gal + 10 Gal           Opto 0.1 Gal           Opto 1 Gal           0.1 Gal Opto + 10 Gal Reed           0.1 Gal Opto + 100 Gal Reed					
	Reed 1,000 Gal	RG6				
	Reed 10 Gal + 1 Gal	G34				
Reed Switch	Reed 100 Gal + 10 Gal	G45				
2 Pulses		G46				
	Reed 1,000 Gal + 10 Gal         0           Reed 1,000 Gal + 100 Gal         0           Opto 0.1 Gal         1					
Opto Sopoor	Opto 0.1 Gal	PG2				
Opto Sensor	Opto 1 Gal	PG3				
	0.1 Gal Opto + 10 Gal Reed	P4G				
Opto L Dood	0.1 Gal Opto + 100 Gal Reed	P6G				
Opto + Reed	1 Gal Opto + 100 Gal Reed	P5G				
	1 Gal Opto + 1,000 Gal Reed	P7G				

Hydrometer Pulse & Size Availability						
Pulse per Size	0.001 m <sup>3</sup> 0.1 Gal	0.01 m <sup>3</sup> 1 Gal	0.1 m³ 10 Gal	1m³ 100 Gal	10m³ 1,000 Gal	
1½", 2", 2½", 3"R, 3" & 4"						
6", 8" & 10"						
▲ Reed-switch Gal = U.S. Gallon						

🔺 R Opto-Electric

Note: Pulse combinations are available according to "Pulse Rate Table".

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900-M Series Hydrometers with Magnetic Drive

#### Hydrometers with Mechanic Drive

900-W Series

IR 4" 9	20	WO 55	C	G 16
			_	
Sector Code		Control Categories C	ode	Construction Materials Code
Irrigation IR		<u> </u>	00	Cast Iron
			00	(1½"-3"R Globe Threaded)
			NO	Ductile Iron C
			N2	
Size		* HP (High Pressure) models are required for		
1 <sup>1</sup> / <sub>2</sub> " * DN40 *		working pressure above 10 bar.		
2" DN50				
2 <sup>1</sup> / <sub>2</sub> " DN65				
3"R * DN80R *			*	*
3" DN80		Additional Features	Code	End Connections Code
4" DN100		No Additional Feature	00	BSP Female Threaded (1½"-3"R Globe & BP
6" DN150		Closing Speed-Control	01	(1½"-3"R Globe & BP 2" Angle)
8" DN200		Closing and Opening Speed- Control	03	NPT Female Threaded
10" * DN250 *		Hydraulic Override	09	0 (1½"-3"R Globe & NP
* Globe only		Electronic Control	18	BSP-U Male Threaded
		Check Feature	20	=    BSF-0    Male finite added    BS
	<b>↓</b>	Solenoid-Controlled & Check		Hydrant 2½" x BSP HP
Primary Features	Code	Feature	25	Flange (JIS-10)
Basic	900	Two-Stage Opening	30	
Basic Low Pressure	90L	Electrically Selected Multi-Level Setting	45	ISO-10 10
Water Meter	901			ISO-16 16
Basic with Flow Limiter	90F	Downstream Over Pressure Guard	48	ISO-14 (ISO 10/4 Holes, 3")
Solenoid Controlled Valve	910	Closing Surge Prevention	49	P         ANSI-125         A1           & ANSI-150         A5
Electronic Control Valve	918	Hydraulic Relay	50	ົ້ ANSI-150 A5
Pressure Reducing Valve	920	Normally Closed with Hydraulic Relay	54	
Pressure Reducing with Flow Limiter	92F	Solenoid-Controlled	55	The second sec
Pressure Reducing & Sustaining Valve	923	Electric Override	59	ABNT-10 B1
Flow Control Valve, Constant Downstream Pressure	927	Modulating Horizontal Float	60	ABNT-16 B6
Pressure Sustaining Valve	930	Bi-Level Electric Float	65	AST-D SD
Pressure Sustaining with Flow Limiter	930 93F	Bi-Level Vertical Float	66	AST-E SE
Level Control Valve	950	Modulating Vertical Float	67	ANSI C 606-81, Steel Pipe
Level Control with Flow Limiter	95F	Mechanical Float Type A	0A	ANSI C 606-81, Steel Pipe (3", 4" & 6")
Level Control - Low Pressure	95L	Flow Control By Flow Limiter	OF	Other end connections available on
Level Control & Pressure		Other additional features available on request		request.
Sustaining Valve	953			
Level & Flow Control	957			
Flow Control Valve	970		↓	
Flow Control & Pressure Reducing Control Valve	972	Pattern	Code	
Flow Control & Pressure Sustaining		Claba		

Flow Control, Pressure Reducing & Sustaining Valve
Other primary features available on request

er primary features availa quest. e on re

04.2010

Flow Control & Pressure Sustaining



10

Control Valve

Order all Bermad products from www.irrigationglobal.com

Angle (2", 3", 4", 6" & 8")

Hydrant-Angle 120° (21/2" & 4")

G

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900-W Series Hydrometers with Mechanical Drive 10

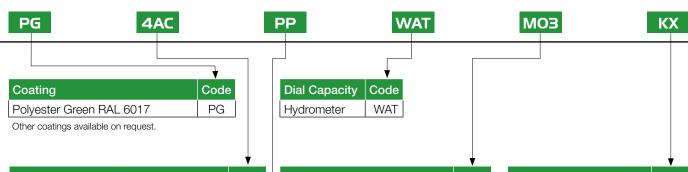
Globe

973

975

#### Hydrometers with Mechanic Drive

#### 900-W Series



Voltage Main Valve Position				
24VAC, with Diode	-	Normally Closed	4AC	
24VAC, with Diode	-	Normally Open	4AO	
24VAC	-	Last Position	4AP	
24VAC	-	Normally Closed	4RC	
24VAC	-	Normally Open	4RO	
24VDC	-	Normally Closed	4DC	
24VDC	-	Normally Open	4DO	
24VDC	-	Last Position	4DP	
12VDC	-	Normally Closed	1DC	
12VDC	-	Normally Open	1DO	
12VDC	-	Last Position	1DP	
12VDC	-	Latch Solenoid S-985 (3 Leads)	1DS	
12VDC	-	Latch Solenoid S-982 (2 Leads)	2DS	
9VDC	-	Latch Solenoid	9DS	

Other electrical ratings available on request.

	. 🔻
Tubing & Fittings	Code
Plastic Tubing & Fittings	PP
Plastic Reinforced Tubing & Brass Fittings	PB
Copper Tubing & Brass Fittings	CB

Pulse Rate m <sup>3</sup>	Code
No Pulse	RNP
0.01 m <sup>3</sup> Pulse	M01
0.1 m <sup>3</sup> Pulse	M02
1 m <sup>3</sup> Pulse	M03
10 m <sup>3</sup> Pulse	M04
0.05 m <sup>3</sup> Pulse	M05
0.005 m <sup>3</sup> Pulse	M07
0.02 m <sup>3</sup> Pulse	M08
0.1 m <sup>3</sup> Pulse + 0.01 m <sup>3</sup> Pulse	M12
0.1 m <sup>3</sup> + 0.1 m <sup>3</sup>	M22
1 m <sup>3</sup> Pulse + 0.1 m <sup>3</sup> Pulse	M23
1 m <sup>3</sup> + 1 m <sup>3</sup>	M33
10 m <sup>3</sup> Pulse + 1 m <sup>3</sup> Pulse	M34
Pulse Rate U.S. Gallon	Code

No Pulse Gal	RNG
10 Gal Pulse	MG4
100 Gal Pulse	MG5
1,000 Gal Pulse	MG6
100 Gal Pulse + 10 Gal Pulse	G45
1,000 Gal Pulse + 100 Gal Pulse	G56

Additional Attributes Code **Unlimited Selection** 3-Way Control Loop Х Plastic Control Κ Accessories Metal Control Accessories R **PVDF** Guide r Homologation Approved L **BSP-U Union Records** Μ Assembly Calibration Ν Orifice Assembly U Paddle Flow Control Pilot V f Drain & Anti-Freeze Valve F Large Control Filter Y Control Strainer Υ Manual Selector Ζ Low Preset Pressure 2 (below 2 bar) High Upstream Pressure З (above 10 bar) 5 Plastic Pressure Test Point Pressure Gauge 6

Other additional attributes are optional. Please consult Customer Service for further information.

e.	Hydrometer Pulse & Size Availability - Metric						
	Pulse per Size		0.1 m <sup>3</sup>	1m³	10m <sup>3</sup>		
	11/2", 2", 21/2", 3"R & 3"	•	•	•			
	4"	•	٠	٠	٠		
	6", 8" & 10"		•	•	•		

Hydrometer Pulse & Size Availability - US Gallon							
Pulse per Size	10 Gal	100 Gal	1,000 Gal				
1½", 2", 2½" & 3"R	٠	•					
3" & 4"	•	•	•				
6", 8" & 10"		•	•				

Note: Pulse combinations are available according to "Pulse Rate Table".

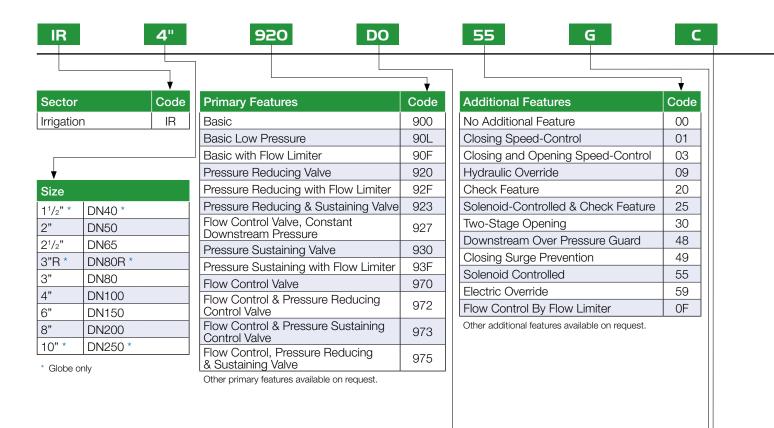
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#### Automatic Metering Valves (AMV)

900-D Series



Control Categories	Code
Without Control Command	00
Without Control Command-HP *	02
Automatic Meter Valve (AMV)	DO
Automatic Meter Valve (AMV)-HP *	D2
Sequential Automatic Metering Valve	DD
Sequential Automatic Metering Valve-HP *	E2

	<u> </u>
Construction Materials	Code
Cast Iron (11/2"-3"R Globe Threaded)	I
Ductile Iron	С

Code

G

А

Н

Pattern

Angle (2", 3", 4", 6" & 8")

Hydrant-Angle 120° (21/2" & 4")

Globe

\* HP (High Pressure) models are required for working pressure above 10 bar.



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900-D Series Automatic Metering Valves (AMV's)

#### Automatic Metering Valves (AMV)

### 900-D Series

	6 PG	4	AC				PP	800	AMV	KX
En	d Connections	Code		Tubing				Code	Additional Attributes Unlimited Selection	Code
	BSP Female Threaded (1½"-3"R Globe & 2" Angle)	BP					g & Fittings	PP	3-Way Control Loop	X
7	NPT Female Threaded (11/2"-3"R			Plastic Brass F	Rei =ittii	info	prced Tubing &	PB	Plastic Control Accessories	ĸ
eaded	Globe & 2" Angle)	NP		i		<u> </u>	ng & Brass Fittings	СВ	Metal Control Accessories	R
hrea	BSP-U Male Threaded (11/2" & 2")	BS			1 10				PVDF Guide	r
Γ	Hydrant 21/2" x BSP	HP							Homologation Approved	L
	Flange (JIS-10) inlet x BSP outlet								BSP-U Union Records	М
	ISO-16	16							Assembly	
	ISO-10	10						¥	Calibration Pump Shut off Assembly	N
	IS 14 (ISO 10/4 Holes, 3")	14		D	Dial	Ca	apacity	Code	(for AMV only)	S
	ANSI-125	A1		— Г			AMV m3		Orifice Assembly	U
0")	ANSI-150	A5					3.8 m <sup>3</sup>	004	Paddle Flow Control Pilot	V
2"-1	BST-D	BD					12 m <sup>3</sup>	012	Drain & Anti-Freeze Valve	f
ed (2	JIS-7.5	J7		ĉ			40 m <sup>3</sup>	040	Large Control Filter	F
g	JIS-10	J1					80 m <sup>3</sup>	080	Y Control Strainer	Y
Flai	JIS-16	J6		Ő	0		120 m <sup>3</sup>	120	Manual Selector	Z
	ABNT-10	B1		" 710			150 m <sup>3</sup>	150	Low Preset Pressure	2
	ABNT-16	B6					200 m <sup>3</sup>	200	(below 2 bar) High Upstream Pressure	
	AST-D	SD		Ĉ	-		350 m <sup>3</sup>	350	(above 10 bar)	3
	AST-E	SE		" "		10	600 m <sup>3</sup>	600	Plastic Pressure Test Point	5
Grooved	ANSI C 606-81, Steel Pipe			T	_	20	800 m <sup>3</sup>	800	Pressure Gauge	6
àroo	(3", 4" & 6")	VI			ĉ	, 0	1,200 m <sup>3</sup>	1K0	Other additional attributes are option	
0	l Other end connections available on reques	et .			=	4	2,100 m <sup>3</sup>	2K0	Please consult Customer Service for information.	r further
		ы. Т					3,500 m <sup>3</sup>	3K0		
Co	ating	Code					6,000 m <sup>3</sup>	6K0		
	lyester Green RAL 6017	PG					8,000 m <sup>3</sup>	8K0		•
	er coatings available on request.	FG					12,000 m <sup>3</sup>	12K	Pulse Rate	
Our	er coatings available of request.						21,000 m <sup>3</sup>	21K	Automatic Metering Valve	AMV
_			•				AMV U.S. Gallon		AMV + Pulse	DAT
Vo	Itage Main Valve Position	C	ode				13,000 Gal	1G0	For AMV with Pulse, choose:	
24	VAC, with Diode - Normally Close	ed 4	AC	ۯ	0		50,000 Gal	5G0	<ul> <li>DAT from "Pulse Rate" table</li> </ul>	
	VAC, with Diode - Normally Oper		AO	14 "		10	130,000 Gal	1KG	The desired Dial Capacity	
			0		<u> </u>	_	210.000 Gal	2KG	<b>T</b> I I I I I I I I I I I I I I I I I I I	

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4,

4AP

4RC

4RO

4DC

4DO

4DP

1DC

1DO

1DP

1DS

2DS

9DS

The pulse rate is factory set according to selected dial:

Metric:

2KG

5KG

8KG

1MG

2MG

210,000 Gal

500,000 Gal

875,000 Gal

1,300,000 Gal

2,100,000 Gal

I Pulse per 1 m<sup>3</sup> for dials 3.8-2,100

I Pulse per 10 m<sup>3</sup> for dials 3,500-21,000

#### U.S. Gallon:

- 1 Pulse per 100 gallons for dials 13,000-210,000
- I Pulse per 1,000 gallons for dials 500,000-2,100,000

Other electrical ratings available on request.

- Last Position

- Normally Closed

- Normally Closed

- Normally Closed

- Normally Open

S-985 (3 Leads) Latch Solenoid

S-982 (2 Leads)

- Latch Solenoid

- Last Position Latch Solenoid

- Normally Open

- Last Position

- Normally Open

24VAC

24VAC

24VAC

24VDC

24VDC

24VDC

12VDC

12VDC

12VDC

12VDC

12VDC

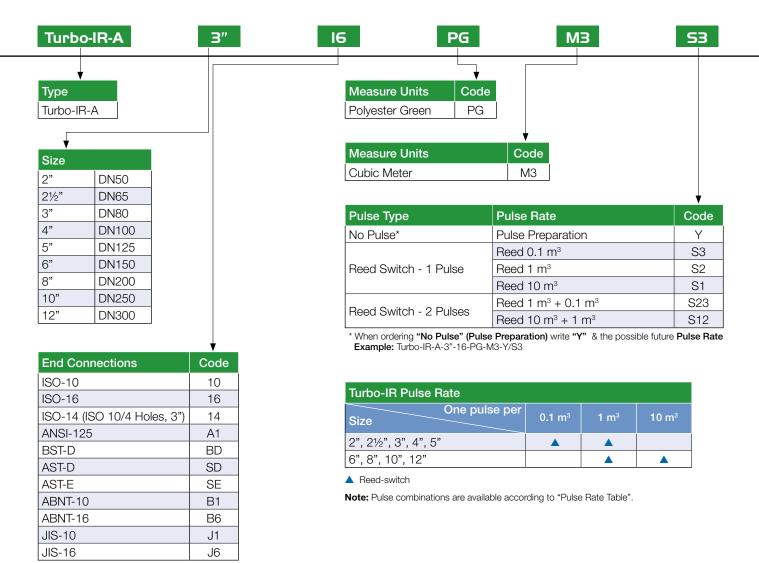
9VDC





#### Water Meters for Irrigation

Turbo-IR



Other end connections available on request.

Order Bermad products from www.irrigationglobal.com Turbo-IR Water Meters for Irrigation





#### Woltman Turbine Type

### Turbo-Bar WPH

V			¥		•		¥.
Size		End Connections	Code	Coating	Code	Meter Units	Code
1 ½"	DN40	ISO-10	10	Polyester Blue RAL 5010	PB	U.S. Gallon	Gal
2"	DN50	ISO-16	16	Epoxy FB Blue RAL 5005	EB	Cubic Meter	M3
2 1⁄2"	DN65	ISO-14 (ISO 10/4 Holes, 3")	14	(up to 6")	LD		
3"	DN80	ANSI-125	A1				
4"	DN100	BST-D	BD				
5"	DN125	AST-D	SD				
6"	DN150	AST-E	SE				
8"	DN200	ABNT-10	B1				
10"	DN250	ABNT-16	B6				
12"	DN300	JIS-10	J1				
16"	DN400	JIS-16	J6				
20"	DN500	Other end connections available on re	equest. 🗆	-			

Pulse Type	Pulse Rate m <sup>3</sup>	Code
No Pulse*	Pulse Preperation	Y
	Reed 0.01 m <sup>3</sup>	S4
	Reed 0.1 m <sup>3</sup>	S3
Reed Switch	Reed 1 m <sup>3</sup>	S2
	Reed 10 m <sup>3</sup>	S1
	Reed 100 m <sup>3</sup>	S8
	Reed 0.1 m <sup>3</sup> + 0.01 m <sup>3</sup>	S34
Reed Switch	Reed 1 m <sup>3</sup> + 0.1 m <sup>3</sup>	S23
2 Pulses	Reed 10 m <sup>3</sup> + 1 m <sup>3</sup>	S12
	Reed 100 m <sup>3</sup> + 10 m <sup>3</sup>	S81
	Opto 0.001 m <sup>3</sup>	SA
Opto Sensor	Opto 0.01 m <sup>3</sup>	SB
	Opto 0.1 m <sup>3</sup>	SC
	0.001 m <sup>3</sup> Opto + 0.1 m <sup>3</sup> Reed	SA3
	0.001 m <sup>3</sup> Opto + 1 m <sup>3</sup> Reed	SA2
Onto I Dood	0.01 m <sup>3</sup> Opto + 1 m <sup>3</sup> Reed	SB2
Opto + Reed	0.01 m <sup>3</sup> Opto + 10 m <sup>3</sup> Reed	SB1
	0.1 m <sup>3</sup> Opto + 10 m <sup>3</sup> Reed	SC1
	0.1 m <sup>3</sup> Opto + 100 m <sup>3</sup> Reed	SC8

		<u> </u>
Pulse Type	Pulse Rate U.S. Gallon	Code
No Pulse*	Pulse Preperation	Y
	Reed 1 Gal	S4
	Reed 10 Gal	S3
Reed Switch	Reed 100 Gal	S2
	Reed 1,000 Gal	S1
	Reed 10,000 Gal	S8
	Reed 10 Gal + 1 Gal	S34
Reed Switch	Reed 100 Gal + 10 Gal	S23
2 Pulses	Reed 1,000 Gal + 100 Gal	S12
	Reed 10,000 Gal + 1,000 Gal	S81
	Opto 0.1 Gal	SA
Opto Sensor	Opto 1 Gal	SB
	Opto 10 Gal	SC
	0.1 Gal Opto + 10 Gal Reed	SA3
	0.1 Gal Opto + 100 Gal Reed	SA2
Opto I Bood	1 Gal Opto + 100 Gal Reed	SB2
Opto + Reed	1 Gal Opto + 1,000 Gal Reed	SB1
	10 Gal Opto + 1,000 Gal Reed	SC1
	10 Gal Opto + 10,000 Gal Reed	SC8

\* When ordering "No Pulse" (Pulse Preparation) write "Y" & the possible future Pulse Rate Example: Turbo-Bar WPH-4"-16-PG-M3-Y/S3

Turbo-Bar Pulse & Size Availabi	lity - Metric					
One pulse per Size	0.001 m <sup>3</sup>	0.01 m <sup>3</sup>	0.1 m³	1m³	10m <sup>3</sup>	100m <sup>3</sup>
11⁄2", 2", 21⁄2", 3", 4", 5"						
6", 8"						
10"						
12", 16", 20"						
Turbo-Bar Pulse & Size Availabi	lity - US Gal	llon				
One pulse per Size	1 Gal	10 Gal	100 Gal	1,000 Gal	10,000 Gal	▲ Reed Swi
1½" - 6"						A Reed Swit

▲

Note: Pulse combinations are available according to "Pulse Rate Table"

Order Bermad products from www.irrigationglobal.com Turbo-Bar Water Meters, Woltman Turbine Type

8" - 20"

h (standard)

ic (standard)

Reed Switch (on request)

Opto Electric (on request)



15

#### Filter Backwash Hydraulic Valves

350 Series

		<b>Г</b>							
<b>▼</b> ize			Drain Conn	ections	Code	Coating		Code	
2"x2"	DN50x50		BSP Thread		P	Polyester Gree			
x2 "x3"/2"DC <sup>(1)</sup>	DN80x80/50							PG	
x3 /2 DC <sup>(6)</sup> "x3"	DN80x80/50		NPT Thread Grooved	eu remaie	N V	Polyester Red		PR PB	
"x3"/2" <sup>(2)</sup>	DN80x80/50		GIOOVED		V	Epoxy FB Blue		EB	
x3 /2 () "x4"/3" <sup>(3)</sup>	DN100x100/8	80				Uncoated	3 NAL 3003	UC	
<ul> <li>Angle flow onl and 2" female</li> <li>Cast Iron only</li> <li>Angle flow: Po female thread</li> <li>Straight flow: 2" female thre</li> <li>Single chamb</li> <li>Angle flow onl and 3" female</li> <li>Radial sealing in</li> </ul>	/ ort 2 (drain) is 3" grod led (Cast Iron only) Port 1 (drain) is 3" gr eaded (Cast Iron or P	grooved oved and 2" ooved and lastic) grooved only) ss & 4"x4"/3"	(when Groo BSP Male Female Thi	ISI C el Pipe led Female dapters are ava Threaded x Gro oved is required Threaded x NPT	oved ).	12VDC - S-9 12VDC - Lat S-9	rmally Closed rmally Open rmally Closed rmally Open rmally Closed	4AC 4AC 4DC 4DC 1DC 1DC 1DC 1DS 2DS	
ilter Flushing ilter Flushing,	Hydraulic 250	0				9VDC - Lat Other electrical rat		request.	5
ilter Flushing ilter Flushing, Accelerator Co	Hydraulic ntrolled 350	0 -54					ings available on	request.	S Code
ilter Flushing ilter Flushing, ccelerator Co ilter Flushing,	Hydraulic ntrolled 350 Solenoid 350	0 -54				Other electrical rai	ings available on	request.	
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve	Hydraulic ntrolled 350 Solenoid 350	0 -54 -55				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting	ings available on Mgs & Fittings rced Tubing gs	request.	Code
ilter Flushing ilter Flushing, accelerator Co ilter Flushing, Controlled Valve	Hydraulic ntrolled 350 Solenoid e 350	0 -54 -55				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor	ings available on Mgs & Fittings rced Tubing gs	request.	V Code PP
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve Other primary featu Pattern / Flow	Hydraulic ontrolled     350       Solenoid e     350       res available on requires     350       Y Options     Control	0 -54 -55 est.				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting	ings available on Mgs & Fittings rced Tubing gs	request.	Code PP PB
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, F Controlled Valve Other primary featu Pattern / Flow	35       Hydraulic ntrolled     350       Solenoid e     350       rres available on require     350       roptions     Control       A     A	0 -54 -55 eest.				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting Copper Tubing	ings available on & Fittings rced Tubing gs g & Brass Fitti	ngs	Code PP PB CB
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve Other primary featu Pattern / Flow Angle Flow Straight Flow *	35       Hydraulic ntrolled     350       Solenoid e     350       rres available on require     350       roptions     Control       A     S	0 -54 -55 eest.				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting Copper Tubing Additional At Selection	ings available on & Fittings reed Tubing g & Brass Fitti tributes Unlir	ngs i	Code PP PB CB
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve Other primary featu Pattern / Flow Angle Flow Straight Flow * Angle & Revers Over Seat Straight & Revers	35       Hydraulic Introlled     350       Solenoid e     350       irres available on required     350 <b>Options</b> Control       A     S       Se Flow     A-1	0 -54 -55 eest. de				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting Copper Tubing Additional At Selection Special Elasto & Diaphragm	ings & Fittings reed Tubing g & Brass Fitti tributes Unlir mers for Seal	ngs i	Code PP PB CB
ilter Flushing ilter Flushing, accelerator Co ilter Flushing, Controlled Valve other primary featu attern / Flow angle Flow angle Flow angle & Revers over Seat Straight & Revers over Seat *	35       Hydraulic Introlled     350       Solenoid e     350       Irres available on requires of Options     000       A     S       See Flow     A-       erse Flow     S-	0 -54 -55 eest. de				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting Copper Tubing Additional At Selection Special Elastor & Diaphragm Metal Control	ings available on angs & Fittings reed Tubing g & Brass Fitti tributes Unlin mers for Seal Accessories	ngs i	Code PP PB CB Code
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve Other primary featu Pattern / Flow Angle Flow Straight Flow * Angle & Revers Over Seat Straight & Revers Over Seat *	35       Hydraulic Introlled     350       Solenoid e     350       Irres available on requires of Options     000       A     S       See Flow     A-       erse Flow     S-	0 -54 -55 eest. de				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfol & Brass Fitting Copper Tubing Additional At Selection Special Elasto & Diaphragm Metal Control Stainless Stee	ings & Fittings & Fittings rced Tubing g & Brass Fitti tributes Unlir mers for Seal Accessories	ngs i	Code PP PB CB Code
Primary Featu Filter Flushing, Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve Other primary featu Pattern / Flow Angle Flow Angle Flow Straight Flow * Angle & Revers Over Seat Straight & Revers Over Seat *	35       Hydraulic Introlled     350       Solenoid e     350       Irres available on requires of Options     000       A     S       See Flow     A-       erse Flow     S-	0 -54 -55 eest. de				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting Copper Tubing Additional At Selection Special Elastor & Diaphragm Metal Control Stainless Stee Manual Select	ings available on ings & Fittings rced Tubing gs g & Brass Fitti tributes Unlin mers for Seal Accessories al 316 Seat cor	ngs i	Code PP PB CB CB
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve Controlled Valv	35         Hydraulic       350         Solenoid       350         Solenoid       350         irres available on requires       350         roptions       Control         A       S         se Flow       A         erse Flow       S         Valves only       Valves only	0 -54 -55 eest. de		Code		Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfol & Brass Fitting Copper Tubing Additional At Selection Special Elasto & Diaphragm Metal Control Stainless Stee Manual Select Plastic Gauge	ings & Fittings & Fittings rced Tubing gs g & Brass Fitti tributes Unlir mers for Seal Accessories d 316 Seat cor Test Point	ngs i	Code PP PB CB CC COde E Code E E C C C C C C C C C C C C C C C C C
Filter Flushing Filter Flushing, Accelerator Co Filter Flushing, Controlled Valve Dattern / Flow Angle Flow Angle Flow Straight Flow * Angle & Revers Dver Seat Straight & Revers Dver Seat * Double Chamber *	35         Hydraulic       350         Solenoid       350         Solenoid       350         irres available on requires       350         roptions       Control         A       S         se Flow       A         erse Flow       S         Valves only       Valves only	0 -54 -55 eest. de				Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting Copper Tubing Additional At Selection Special Elastor & Diaphragm Metal Control Stainless Stee Manual Select	ings & Fittings creed Tubing gs g & Brass Fitti tributes Unlin mers for Seal Accessories d 316 Seat cor Test Point ttributes are optio	ngs c ngs s nited	Code PP PB CB CC COde E Code E E C C C C C C C C C C C C C C C C C
ilter Flushing ilter Flushing, ccelerator Co ilter Flushing, controlled Valve ther primary featu rattern / Flow ngle Flow traight Flow * ngle & Revers Ver Seat traight & Revers Ver Seat * Double Chamber *	35         Hydraulic       350         Solenoid       350         Solenoid       350         irres available on requires       350         roptions       Control         A       S         se Flow       A         erse Flow       S         Valves only       Valves only	0 -54 -55 eest. de 0 0		Dode		Other electrical rat Tubing & Fitti Plastic Tubing Plastic Reinfor & Brass Fitting Copper Tubing Additional At Selection Special Elastor & Diaphragm Metal Control Stainless Stee Manual Select Plastic Gauge Other additional at	ings & Fittings creed Tubing gs g & Brass Fitti tributes Unlin mers for Seal Accessories d 316 Seat cor Test Point ttributes are optio	ngs c ngs s nited	Code PP PB CB CB Cb Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc

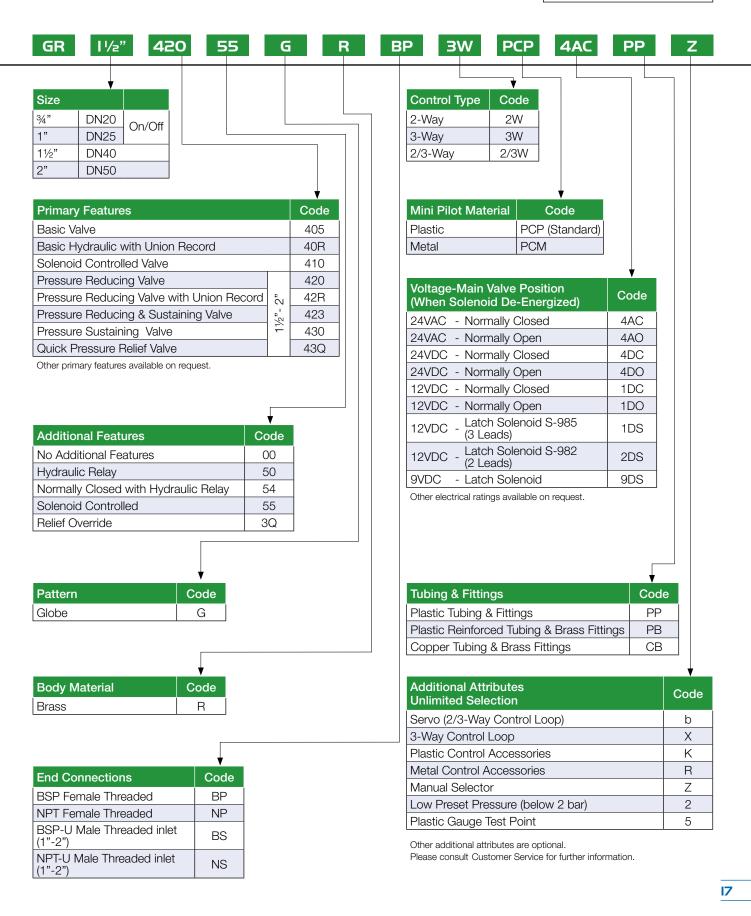


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Order Bermad products from www.irrigationglobal.com 350 Series Filter Backwash Hydraulic Control Valves

**Diaphragm Hydraulic Control Valves - PN IO** 

GR 400 Series

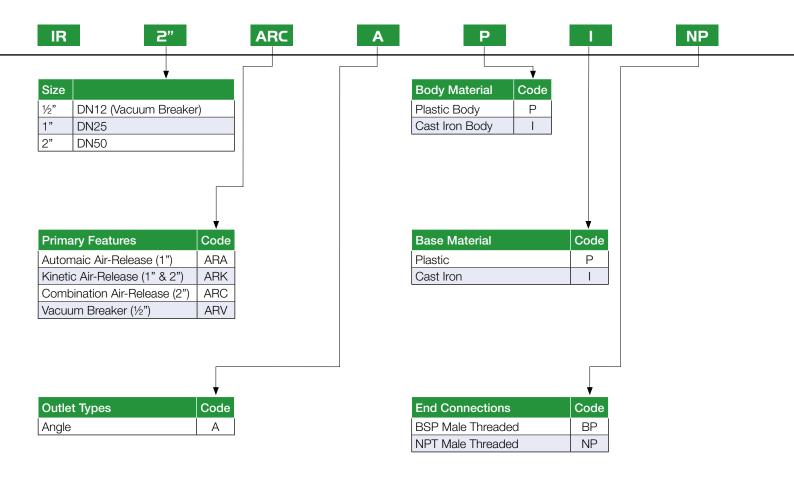


### Order Bermad products from www.irrigationglobal.com

GR 400 Series Diaphragm Hydraulic Control Valves - PN 10 (Brass)

#### Air & Vacuum Release Valves

**AR Series** 



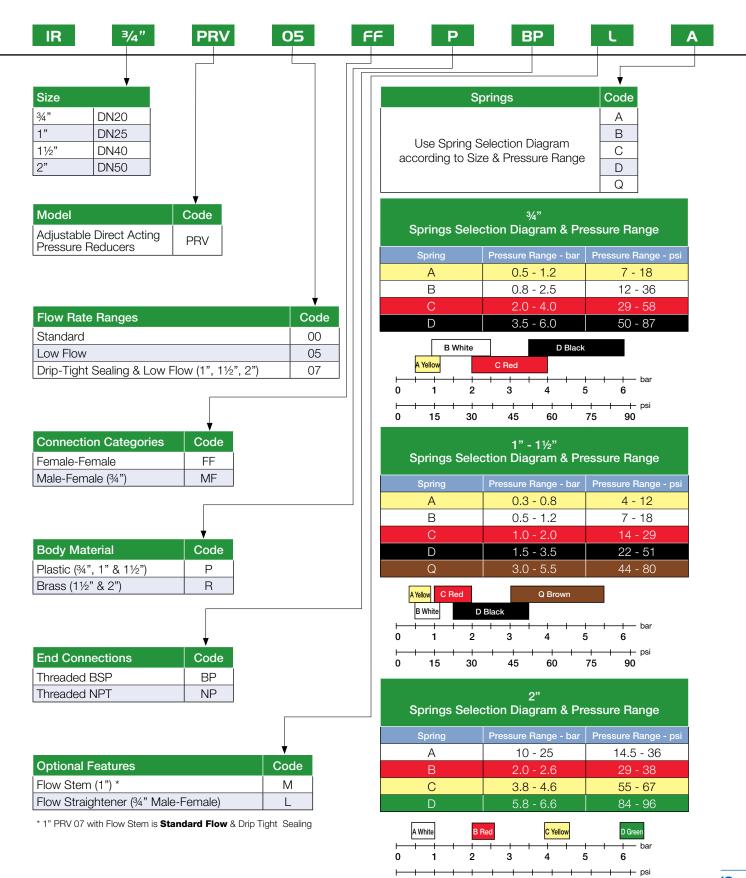
18



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#### Adjustable Direct-Acting Pressure Reducers

**PRV** Series



0

15

30

45

60

75

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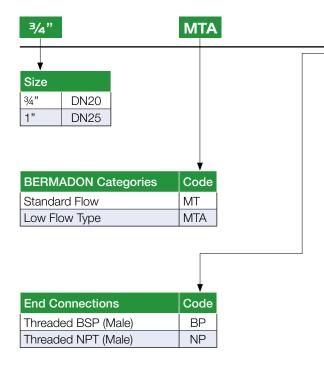
**PRV Series Adjustable Direct-Acting Pressure Reducers** 

90

#### **BERMADON Automatic Metering Valves**

MT Series

U



Code           gpm)           er           100           er           2000           3           4           3           10           3           20           3           50
gpm) er 100 er 2000 <sup>3</sup> 4 <sup>3</sup> 10 <sup>3</sup> 20
100           er         1000           er         2000           3         4           3         10           3         20
Pr         1000           Pr         2000 <sup>3</sup> 4 <sup>3</sup> 10 <sup>3</sup> 20
2000           3         4           3         10           3         20
<sup>3</sup> 4 <sup>3</sup> 10 <sup>3</sup> 20
<sup>3</sup> 10 <sup>3</sup> 20
<sup>3</sup> 20
<sup>3</sup> 50
on 300
on 550
on 1200
on 2600
on 5500
on 13000
9 gpm)
er 50
er 500
er 1000
er 2000
3 4
3 8
on 125
on 500
on 1200
on 2000

a = 0.3. Gallon

Metering Units	Code
Liter	LI
Cubic Meter	M3
U.S. Gallon	GL





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### Solenoid Pilot Valves

S	400	30	V	24	AC-D	NC
		L	•	]		
Primary Feature	s		Code		Current	Code
Standard Solenoi	id Pilot Valve		390		Alternate Current, with Diode	AC-D
Standard Solenoi			400		Alternate Current	AC-R
3-Way with Soler _atching, 2 Cond			392-2L		Direct Current	DC
atching, 2 Cond		DC	402			<b>V</b>
_atching, 3 Cond	luctors		985-3L		Options	Code
_atching, 2 Cond			982-2L		Normally Open	NO
	*				Normally Closed	NC
Operation	Code					
2-Way (NC)	2W				Pilot Valve Bases (Body)	Code
3-Way	3W				Without Base	00
					N.O. Base	B0
/oltage	Code				N.C. Base	BC
9V (for Pulse)	9				Brass Base	BR
2V	12				Plastic Latching Base	BB
24V	24				Plastic Base w/out manual over	ride BA

#### Solenoid Pilot Valves Manifold

EM-S	390	ЗV	V	AC-D	NO
Primary Features		L	<b>▼</b> Code	Current	Code
Standard Solenoid			390	Alternate Current with Diode	AC-D
Standard Solenoid				Alternating Current	AC-R
3-Way with Soleno	id Base	-	400	Direct Current	DC
Latching, 2 Condu 3-Way with Latchir	ctors ng Solenoid Base		402		
Latching, 3 Condu		DC	985-3L	Options	Code
Latching, 2 Condu			982-2L	Normally Open	NO
	L		· · · · ·	Normally Closed	NC
Operation	Code				V
3-Way	3W			Number of Solenoids	Code
				2-10	2-10
Voltage	Code				1.1
9V (for Pulse)	9			1 million	Pap-ap
12V	12			- A 2 (	8 8
	24			The second se	

04.2010

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S Series Solenoid Pilot Valves & Manifolds

#### Mini-Pilots/Pilots

Plastic Mini-Pilots (For IR PN10 Valves, Size Range 1.5" - 4")	Code	Standard Spring
3-Way Multi-Purpose Mini Pilot - Plastic	PC-X-A-P	Н
3-Way Differential Mini Pilot - Plastic	PC-XD-A-P	J
2-Way Pressure Reducing Mini Pilot - Plastic	PC-20-A-P	Н
2-Way Differential Pressure Reducing Mini Pilot - Plastic	PC-2D-A-P	J
2-Way Pressure Sustaining Mini Pilot - Plastic	PC-30-A-P	Н
2-Way Pressure Relief (Quick Type) Mini Pilot - Plastic	PC-3Q-A-P	Н
2/3-Way Mini Pilot "Servo" - Plastic	PC-S-A-P	K
2/3-Way Differential Pressure Sensing/Flow Mini Pilot "Servo" - Plastic	PC-SD-A-P	J
Flow Pilot (Paddle Type) - Plastic	PC-70-P	
Plastic Mini-Pilot - Spring Table		



Mini-Pilots/Pilots

Plastic Mini-Pilot - Spring Table				
	Pressure Range			
Spring	bar	psi		
H - Orange	1-7	15-100		
N - Natural (S.S)	0.8-6.5	11-95		
K - Gray	0.5-3	7-40		
J - Green	0.2-1.7	3-25		

Metal Mini-Pilots (For IR PN16 Valves, Size Range 1.5" - 4")	Code	Standard Spring
3-Way Multi-Purpose Mini Pilot - Metal	PC-X-A-M	G
3-Way Differential Mini Pilot - Metal	PC-XD-A-M	J
2-Way Pressure Reducing Mini Pilot - Metal	PC-20-A-M	G
2-Way Differential Pressure Reducing Mini Pilot - Metal	PC-2D-A-M	J
2-Way Pressure Sustaining Mini Pilot - Metal	PC-30-A-M	G
2-Way Differential Pressure Sustaining Mini Pilot - Metal	PC-3D-A-M	K
2-Way Pressure Relief (Quick Type) Mini Pilot - Metal	PC-3Q-A-M	G
2/3-Way Mini Pilot "Servo" - Metal	PC-S-A-M	K
2/3-Way Differential Pressure Sensing/Flow Mini Pilot "Servo" - Metal	PC-SD-A-M	J
Flow Pilot (Paddle Type) - Metal, Size Range 1.5"-10"	PC-70-M	



Metal Mini-Pilot - Spring Table				
	Pressure Range			
Spring	bar	psi		
M - Brown	1-16	15-230		
G - Blue	1-10/12	15-145/175		
H - Orange	1-7	15-100		
N - Natural (S.S)	0.8-6.5	11-95		
K - Gray	0.5-3	7-40		
J - Green	0.2-1.7	3-25		

Metal # Pilots (For IR PN16 Valves, Size Range 6" - 16")	Code	Standard Spring
2-Way Pressure Reducing Pilot - Brass	#2	16
2-Way Pressure Sustaining Pilot - Brass	#3	16
2-Way Differential Pressure Sensing/Flow Pilot - Brass	#2D	10
3-Way Positioning, Multi-Purpose Pilot - Brass	#X	16
3-Way Positioning, Differential Multi-Purpose Pilot - Brass	#XD	10
2-Way Pressure Sustaining/Relief Pilot - Brass	#3HC-R	16



Metal # Pilots - Spring Table			
		essure Range	
Spring	bar	psi	
16 (Blue)	1-16	15-230	
10 (Natural)	0.8-10	11-150	
16*	2-30	30-430	
16*	2-45	30-650	
When ordering Pilots, add Description to Code * with high pressure setting kit			

When ordering Pilots, add Description to Code

Order Bermad products from www.irrigationglobal.com Mini Pilots / Pilots Plastic and Metal Mini Pilots / Metal Pilots

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#### Accessories

AMV - (900-D Series) Shut-Off Pilots	Code
AMV Shut-Off Pilot	3W-SOP
AMV Sequential 5-Way Shut-Off Pilot	5W-SSOP
AMV Shut-Off Pilot with Pump Shut-Off Electrical Switch	3W-SOP-S

When ordering Pilots, add Description to Code

Plastic Float (For IR PN10 Valves, Size Range 1.5" - 4")	Code
Modulating Horizontal Float Assembly - Plastic	#60P

Metal Float (For IR PN16 Valves, Size Range 1.5" - 16")	Code
Modulating Horizontal Float Assembly - Metal	#60M
Electric Float Switch	#65
4-Way Bi-Level Vertical Float Assembly	#66
Modulating 2-Way Vertical Float Assembly	#67

Plastic Accessories - K (For IR PN10 Valves, Size Range 1.5" - 4")	Item#	Code
Plastic Hydraulic Relay Valve (HRV) 2-Way 1/8"	5008651100	50-P
Plastic Hydraulic Relay Valve, 3-Way (3W-HRV) 1/8"		54-PZ
Plastic Shuttle Valve 8 x 1/8" x 8	1408600800	50-X-P
Black Plastic In-Line Filter (old) 1/4" x 1/8"	9004033000	
Grey Plastic In-Line Filter 1/4" x 1/8"	9004080700	-
Grey Plastic In-Line Filter 1/4" x 1/8" Short	900408S600	-
Plastic One-Way Flow Control 1/8"	1408782500	-
Plastic Check Valve 8mm	1408782000	20-P
Drain & Anti-Freeze Valve 1/4"	9004060000	
Drain & Anti-Freeze Valve 3/8"	9038060000	f
Drain & Anti-Freeze Valve 1/2"	9002060000	
Gauge Test-Point	3604040600	5

Metal Accessories - R (For IR PN16 Valves)	Code
Metal Hydraulic Relay Valve (HRV) 2-Way ¾"	50-M
Metal Hydraulic Relay Valve 3-Way (3W-HRV) 3/8"	54-M
Metal Shuttle Valve 1/4" / 1/8"	50-X-M
Manual Selector, 3-Positions 4-Way, 1/8"	Z-SY3
Manual Selector, 3-Positions 4-Way, 1/4"	Z-SY6
Metal In-Line Filter, S.S 316 Body 1/4" / 3/8" / 1/2"	С
"Y" Strainer Control Filter, 1/4" / 3/8" / 1/2" NPT Brass, 500 Micron	Y
Large Control Filter	F
Metal Needle Valve 1/4"	-
Metal One-Way Flow Control 1/4" / 3/8" / 1/2"	-
Metal Check Valve 1/4" / 3/8" / 1/2"	20-M
2-Way Ball Valve 1/4" / 3/8" / 1/2"	-
3-Way Ball Valve 1/4" / 3/8" / 1/2"	-
Manometer Ball Valve 1/8" / 1/4" / 3/8"	-
Pressure Gauge 0-6, 10, 16 & 25 bar (90, 140, 230 & 350 psi), Side Port ¼"	6
Pressure Gauge 0-6, 10, 16 & 25 bar (90, 140, 230 & 350 psi) Back Port ¼"	6
Needle for Manometer & Test-Point	-

When ordering Accessories, add Description to Code

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### Accessories

End Connection A	Item #	
Flange Adapters	3"-3"L-IR (100-Y-P-FF), BLACK POLYAMID FLANGE ASSY KIT	113L060091-KIT
	4"-4"R-IR (100-Y-P-FF), BLACK POLYAMID FLANGE ASSY KIT	1140060091-KIT
	6"-IR (100-Y-P-BOXER), BLACK POLYAMID FLANGE ASSYKIT	1160060091-KIT
	3"-3"L-IR (100-Y-P-CC-PK), DUCTILE IRON, "CORONA" FLANGE ASSYKIT, COATED BLACK POLYESTER	113L0P0091-KIT
	4"-4"R-IR (100-Y-CC-PK), DUCTILE IRON, "CORONA" FLANGE ASSYKIT, COATED BLACK POLYESTER	11400P0091-KIT
PVC Cemented (glue-in) Adapters	3"-3"L (100 SERIES), PVC ADAPTER BSP MTH 3" X ID 75 MM - KIT	11300PV075 - KIT
	3"-3"L (100 SERIES), PVC ADAPTER NPT MTH 3" X ID 2 1/2" - KIT	11300PV025 - KIT
	3"-3"L (100 SERIES), PVC ADAPTER ID 90 MM / OD 110 MM - KIT	11300PV110 - KIT
	3"-3"L (100 SERIES), PVC ADAPTER ID 110 MM / OD 125 MM - KIT	11300PV125 - KIT
	3"-3"L (100 SERIES), PVC ADAPTER ID 3" / OD 4" - KIT	11300PV175 - KIT
	3"-3"L (100 SERIES), PVC ADAPTER ID 4" - KIT	11300PV100 - KIT
Victaulic (Grooved) Adapters	3"-3"L (100 SERIES), BLACK PA6 GROOVE ADAPTER 3" - KIT	113006V075 - KIT
	3"-3"L (100 SERIES), BLACK PA6 GROOVE ADAPTER 4" - KIT	113006V100 - KIT
PVC Horn Adapter	3" (100-HORN) PVC ADAPTOR FOR HORN LAYFLAT PIPE	1130PVCH60

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### **Control Tube Fittings**

FT Series

	Description	Model Code	Item #
8	Tube Straight Connector 8mm - 8mm	FT 88	3656005600
	Straight Connector 1/8"-8mm	FT 18	3608025600
	Straight Connector 1/4"-8mm	FT 78	3604025600
	Elbow Connector <sup>1</sup> /8"-8mm	FT 28	3608015600
	Elbow Connector 1/4"-8mm	FT 58	3604015600
	<sup>1</sup> /8" NPT Male Plug	FT 38	3608070000
	<sup>1</sup> /4" NPT Male Plug	FT 34	3604070000
	3⁄8" NPT Male Plug	FT 32	3638070200
	<sup>1</sup> /2" BSPT Male Plug	FT 30	3602070000
	Bushing Male-Female <sup>1</sup> /8" - <sup>1</sup> /8"	FT 11	3608050805
	Bushing Male-Female 1/4"-1/8"	FT 48	3604050805
	T-Connector For Tube 8mm-8mm-8mm	FT 98	360807T600
	T-Connector For Tube 8mm-1/8"-8mm	FT 98/1	360807B600
Þ	T-Connector For Tube 8mm-8mm -1/8"	FT 98/2	360807R600
	Coupler For 8mm Tube 1/8"-8mm	FT 08	3608025602
	8mm Plastic Command Tube (Meter)	PP08	0756012000

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**Bermad FT Series Control Tube Fittings**