

Ordering Guide

May 2010



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General Notes

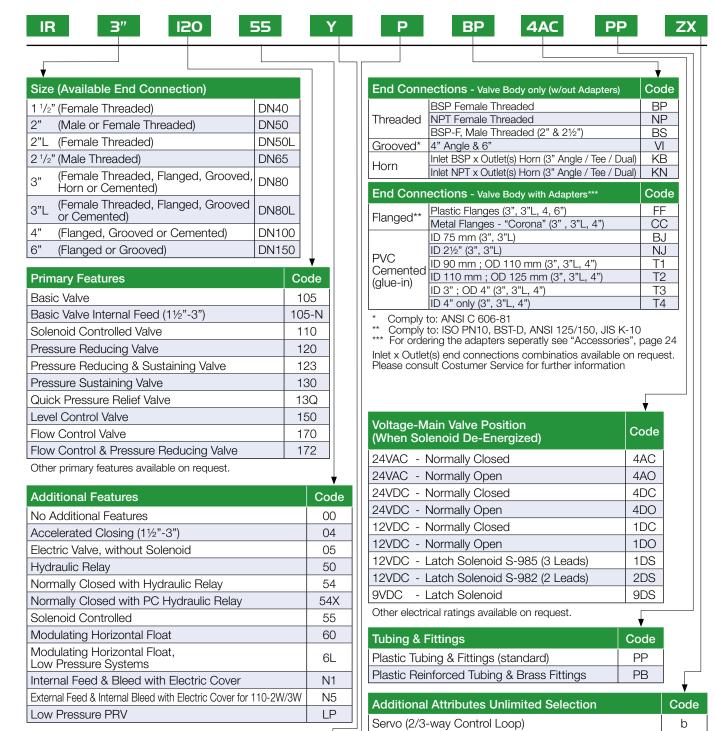
- As part of our ongoing effort to provide you with the products that you need, if the characteristics or features that you need are not listed in this ordering guide, please contact BERMAD.
- Some valve categories and features can be mixed and matched. When in doubt, contact BERMAD. This edition supersedes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





High Performance Plastic Hydraulic/Electric Control Valves

100 Series hYflow



Pattern (Available	e Sizes)	Code
Oblique	(all sizes)	Υ
Angle	(3" & 3"L/4")	Α
Tee	(3", Horn Outlets)	Т
Dual Actuated Tee	(3", Male Threaded or Horn Outlets)	D
		▼

Construction Materials	Code
Black Nylon Glass Filled (Standard)	Р
Polypropylene (Spacial Applications)	PP

Differential Pressure Duct (2"-4")

External Control Pressure

Drain & Anti-Freeze Valve

Orifice Assembly

Flow Stem

Manual Selector

Low Preset Pressure (below 2 bar)

Other additional attributes are optional. Please consult our customer service for further information.

3-way Control Loop

Plastic Pressure Test Point



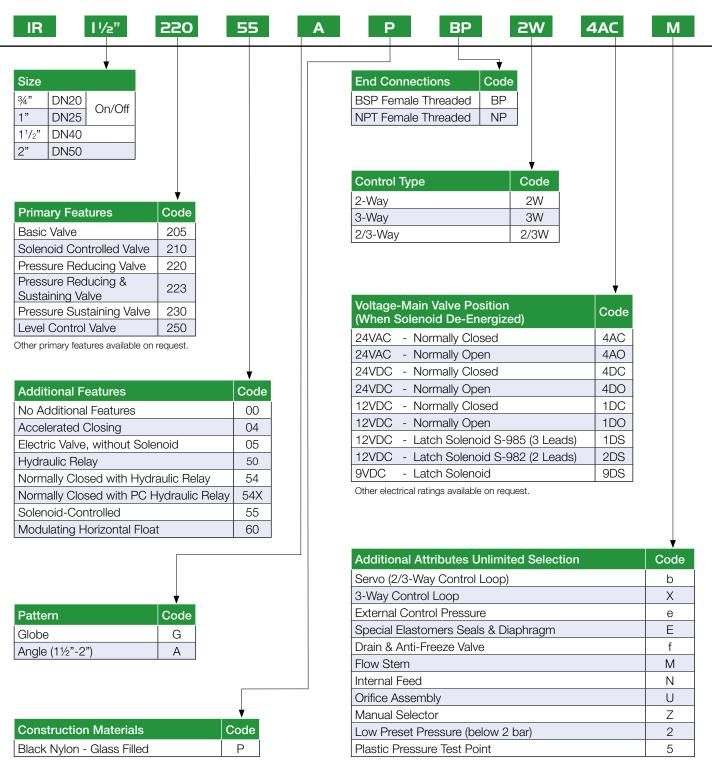
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Χ



Plastic Hydraulic/Electric Control Valves

200 Series



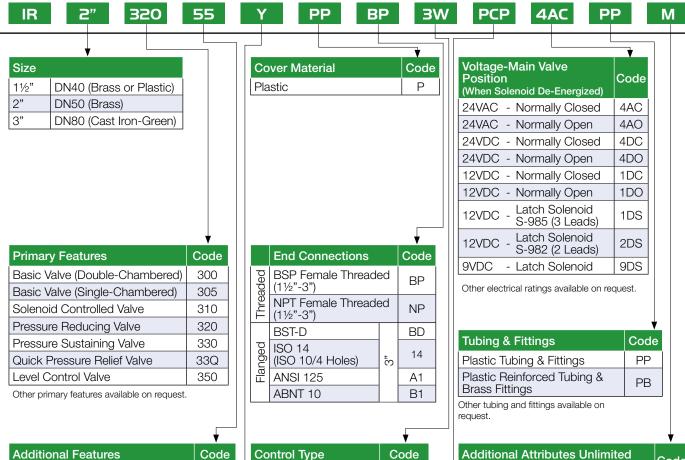
Other additional attributes are optional. Please consult Customer Service for further information.





Double Chamber Hydraulic Control Valves

300 Series



Additional Features	Code
No Additional Features	00
Check Feature	20
Hydraulic Relay	50
Normally Closed with Hydraulic Relay	54
Solenoid Controlled	55
Modulating Horizontal Float	60
Bi-Level Electric Float	65
Normally Closed (Hydraulic)	NC

Pattern	Code
Oblique	Y
Oblique Plastic (1.5")	YP
Angle (2")	Α

	V
Mini Pilot Material	Code
Plastic	PCP (Standard)
Metal	PCM

2W

ЗW

2/3W

2-Way

3-Way

2/3-Way

Additional Attributes Unlimited Selection	Code
Servo (2/3-Way Control Loop)	b
3-Way Control Loop	Х
Metal Control Accessories	R
Double-Chambered (Active)	В
Special Elastomers Seals & Diaphragm	Е
Auxiliary Closing Spring	K
External Control Pressure	е
Lifting Spring	L
Flow Stem	М
Flow Over-the-Seat	0
Industrial Internal Trim (S.S. Trim 3")	Т
Orifice Assembly	U
Conic Throttling Disc	٧
"Y" Control Strainer	Υ
Drain & Anti-Freeze Valve	f
Manual Selector	Ζ
Low Preset Pressure (below 2 bar)	2
Plastic Pressure Test Point	5
Pressure Gauge (Loose)	6

Other additional attributes are optional.

Please consult Customer Service for further information.



Diaphragm Hydraulic Control Valves

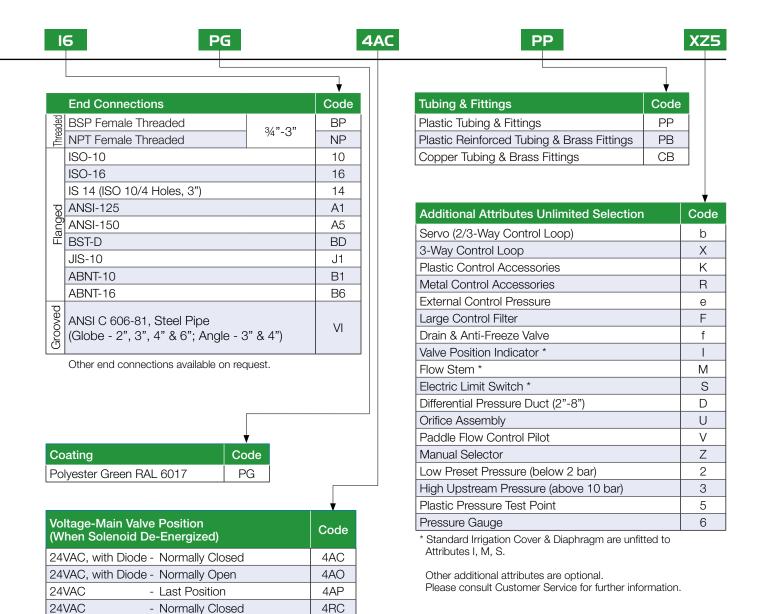
400 Series



Other materials available on request.



400 Series



4RO

4DC

4DO

4DP

1DC

1DO

1DP

1DS

2DS

9DS

Other electrical ratings available on request.

- Normally Open

- Normally Open

- Last Position

- Normally Closed

- Normally Closed

- Latch Solenoid S-985 (3 Leads)

- Latch Solenoid S-982 (2 Leads)

- Normally Open

- Latch Solenoid

- Last Position

24VAC

24VDC

24VDC

24VDC 12VDC

12VDC

12VDC

12VDC

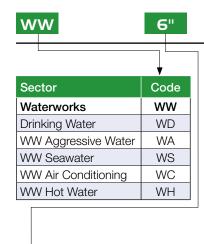
12VDC

9VDC



Hydraulic Control Valves for Waterworks Systems

WW-700 Series



Pattern	Code	
Oblique (1 ¹ / ₂ -20")	Υ	
Angle (11/2-18")	Α	
Globe (24-36")	G	╛,
Construction Mat	Со	
	i	_

720

	 ▼
Construction Materials	Code
Ductile Iron	С
Cast Steel	S
Stainless Steel 316	Ν
Nickel Aluminum Bronze	U
0.1	

Other materials available on request.

Size	
11/2"	DN40
2"	DN50
21/2"	DN65
3"	DN80
4"	DN100
5"	DN125
6"	DN150
8"	DN200
10"	DN250
12"	DN300
14"	DN350
16"	DN400
18"	DN450
20"	DN500
24"	DN600
28"	DN700
30"	DN750
32"	DN800
36"	DN900

Primary Feature	Code
Basic Valve (Double Chambered Actuator)	700
Basic Valve (Single Chambered Actuator)	705
Solenoid Controlled Valve	710
Electronic Control Valve	718
Pressure Management Valve, Flow Compensated PRV	7PM
Pressure Reducing Control Valve	720
Pressure Reducing & Sustaining Valve	723
Differential Pressure Reducing Valve	726
Flow Control Valve, Constant Downstream Pressure	727
Pressure Sustaining Valve	730
Pressure Relief Valve, Quick Type	73Q
Pressure Sustaining Valve Remote Sensing Type	730R
Surge Anticipating Valve	735
Differential Pressure Sustaining Valve	736
Booster Pump Control Valve, Single Chambered Actuator	740
Booster Pump Control Valve, Double Chambered Actuator	74Q
Booster Pump Control & Pressure Reducing Valve	742
Booster Pump Control & Pressure Sustaining Valve	743
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
Other primary features available on request.	

Additional Feature (Multiple Options Permitted)	Code
No Additional Feature	00
Closing and Opening Speed Control	03
Differential Pressure	06
Hydraulic Override	09
Check-Lock	11
High Sensitivity Pilot	12*
Electronic Control	18
Check Feature	20
Independent Flow Check (24-32" only)	2S
Solenoid Controlled & Check Feature	25
Pressure Reducing Feature	2Q
Two-Stage Opening	30
Relief Override	3Q
Electrically Selected Multi-Level Setting	45
Downstream Over Pressure Guard	48
Closing Surge Prevention	49
Motorized Pilot	4S
Electronic Multi-Level Setting - Type 4R	4R
Electronic Multi-Level Setting - Type 4T	4T
2-Way Hydraulic Relay	50
3-Way Hydraulic Relay	54
Solenoid Controlled	55
Electric Override	59
Modulating Horizontal Float	60
Bi-Level Electric Float	65
Bi-Level Vertical Float	66
Modulating Vertical Float	67
Bi-Directional Flow	70
Altitude Pilot	80*
Modulating Altitude Control	82*
Sustaining Altitude Pilot	83*
Hydraulic Positioning	
Bi-Level Altitude Control	85* 86*
Altitude Control with Bi-Directional Flow	87*
	M1
2-14 meter; 7-46 feet Setting 5-22 meter; 17-72 feet Setting 15-35 meter; 49-115 feet Setting 25-70 meter; 82-230 feet Setting	M6
5 15 25 motor, 40 115 foot Cattle or	M5
15-35 meter; 49-115 feet Setting	M4
Lo To Inlotor, of Loo look cotting	M8
Closing at Downstream Pressure Drop	91
Cavitation Cage	C1
Double Cavitation Cage	C2
Triple Chamber Valve	TC
Panel Mounted Control	L1
PRV Low Flow By-Pass	2B
Proportional	PD

Other additional features available on request.

* Select Setting Range



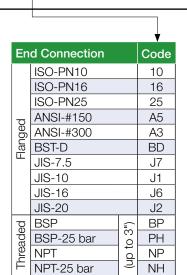
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Hydraulic Control Valves for Waterworks Systems

PG

WW-700 Series



16

Other end connections available on request.

► Reduction Ratios Table

Reduction Ratios Table					
Valve Size	Plug Type				
valve Size	Flat Disk				
1 ¹ / ₂ - 2 ¹ / ₂ " 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			

- 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.

		ge-Main Valve Posi n Solenoid De-ene		Code
		24VAC/50Hz	- Normally Closed	4AC
		24VAC/50Hz	- Normally Open	4AO
	AC	24VAC/50Hz	Last Position	4AP
	Ă	24VAC/60Hz	- Normally - Closed	46C
24V		24VAC/60Hz	- Normally Open	460
24		24VAC/60Hz	Last Position	46P
		24VDC	- Normally - Closed	4DC
	20	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
	DC	220VDC	- Normally Open	2DO
		220VDC	Latch Solenoid	2DS
	4C	110VAC/50-60Hz	- Normally Closed	5AC
	A	110VAC/50-60Hz	- Normally - Open	5AO
110		110VDC	- Normally Closed	5DC
	DC	110VDC	- Normally Open	5DO
		110VDC	 Latch Solenoid 	5DS
		12VDC	- Normally Closed	1DC
2V	20	12VDC	- Normally Open	1DO
1;		12VDC	Last Position	1DP
		12VDC	Latch Solenoid	1DS

4AC

Tubing & Fittings	Code	
Copper Tubing & Brass Fittings	CB	
St. St. 316 Tubing & Fittings	NN	
Plastic Reinforced Tubing & Brass Fittings	PB	
Monel Tubing & Fittings	MM	
Additional Attributes (Multiple Options Permitted)		,

	<u> </u>
Additional Attributes (Multiple Options Permitted)	Code
V-Port Throttling Plug	V
Large Control Filter	F
Valve Position Indicator	I
Electric Limit Switch	S Q
Valve Position Transmitter	Q
Flow Stem	М
Lifting Spring	L
Balancing Piston Assembly	G
Orifice Assembly	U
Pressure Separator	d
Double Chambered (Active)	В
External Control Pressure	е
3-Way Control	Х
Manual Selector	X Z O
Flow Over the Seat	0
St. St. 316 Control Accessories	N
St. St. 316 Actuator Internal Assembly	D
St. St. 316 Internal Trim (Closure & Seat)	Т
Delrin Bearing	R
PVDF Bearing	r
High Grade Bearing & Stem	K
St. St 316. Bolts & Nuts	m
Special Elastomers for Seals & Diaphragm	Е
Pressure Gauge	6
0.0 1.00 1.00 1.00 1.00	

Other additional attributes are optional.

Please consult our sales department for further information.

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

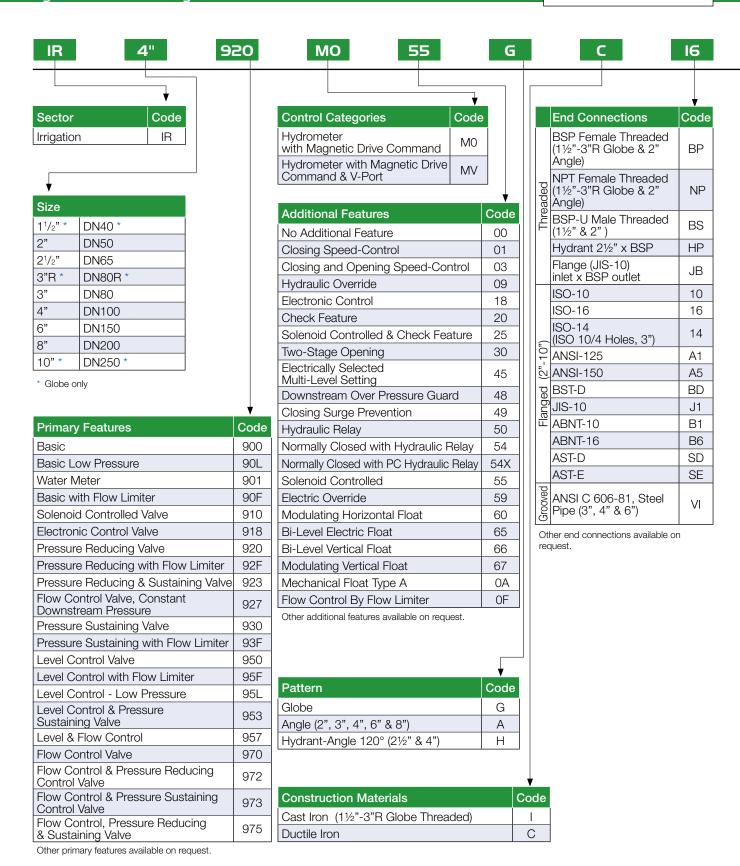
Other coatings available on request.





Hydrometers with Magnetic Drive

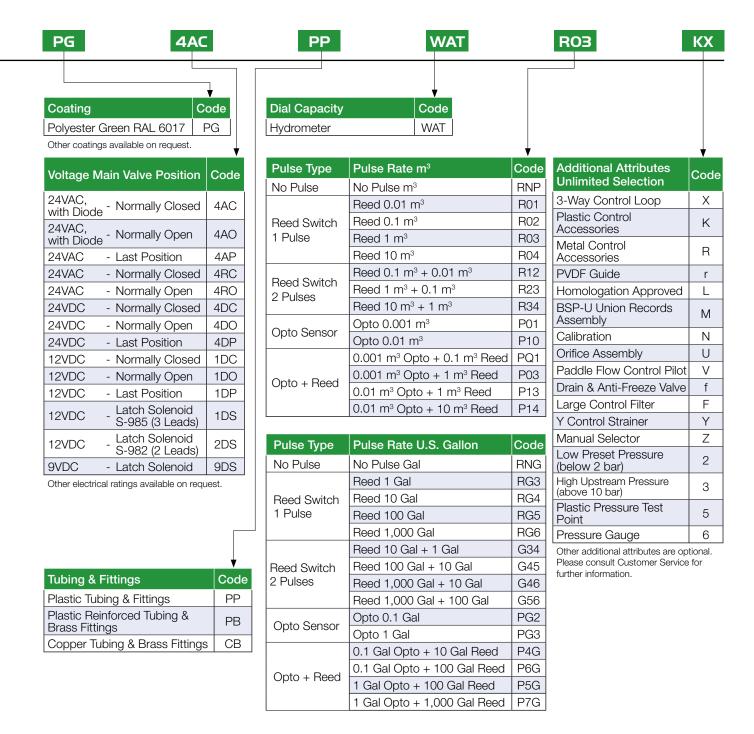
900-M Series





Hydrometers with Magnetic Drive

900-M Series



Hydrometer Pulse & Size Availability							
Pulse per Size	0.001 m ³ 0.1 Gal	0.01 m ³ 1 Gal	0.1 m³ 10 Gal	1m³ 100 Gal	10m³ 1,000 Gal		
1½", 2", 2½", 3"R, 3" & 4"		A	A	A			
6", 8" & 10"			A	A	A		

▲ Reed-switch
■ Opto-Electric

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

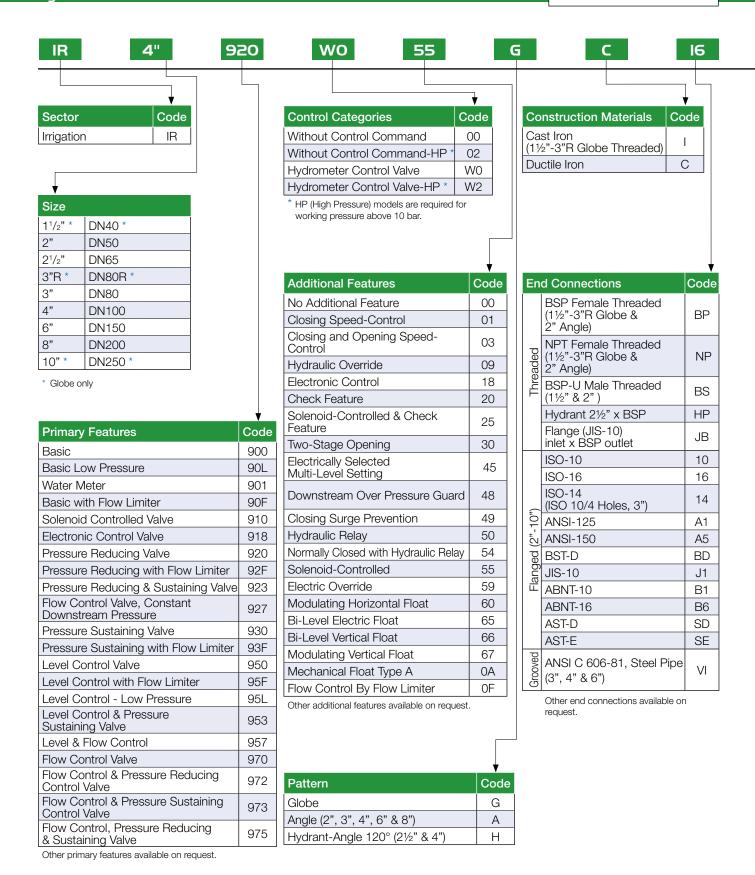


Gal = U.S. Gallon



Hydrometers with Mechanic Drive

900-W Series



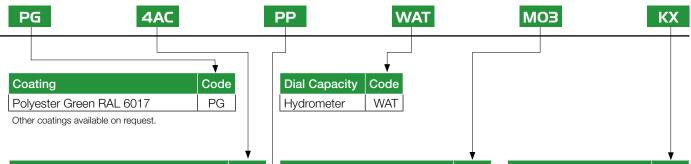


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Hydrometers with Mechanic Drive

900-W Series



Voltage Main Valve Position			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.
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Pulse Rate m³	Code
No Pulse	RNP
0.01 m³ Pulse	M01
0.1 m³ Pulse	M02
1 m³ Pulse	M03
10 m³ Pulse	M04
0.05 m³ Pulse	M05
0.005 m³ Pulse	M07
0.02 m³ Pulse	M08
0.1 m ³ Pulse + 0.01 m ³ Pulse	M12
0.1 m ³ + 0.1 m ³	M22
1 m ³ Pulse + 0.1 m ³ Pulse	M23
1 m ³ + 1 m ³	M33
10 m ³ Pulse + 1 m ³ 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 Unlimited Selection	Code
3-Way Control Loop	Х
Plastic Control Accessories	K
Metal Control Accessories	R
PVDF Guide	r
Homologation Approved	L
BSP-U Union Records Assembly	М
Calibration	N
Orifice Assembly	U
Paddle Flow Control Pilot	V
Drain & Anti-Freeze Valve	f
Large Control Filter	F
Y Control Strainer	Υ
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

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

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

Hydrometer Pulse & Size Availability - Metric							
Size Pulse per	0.01 m³	0.1 m³	1m³	10m³			
1½", 2", 2½", 3"R & 3"	•	•	•				
4"	•	•	•	•			
6", 8" & 10"		•	•	•			

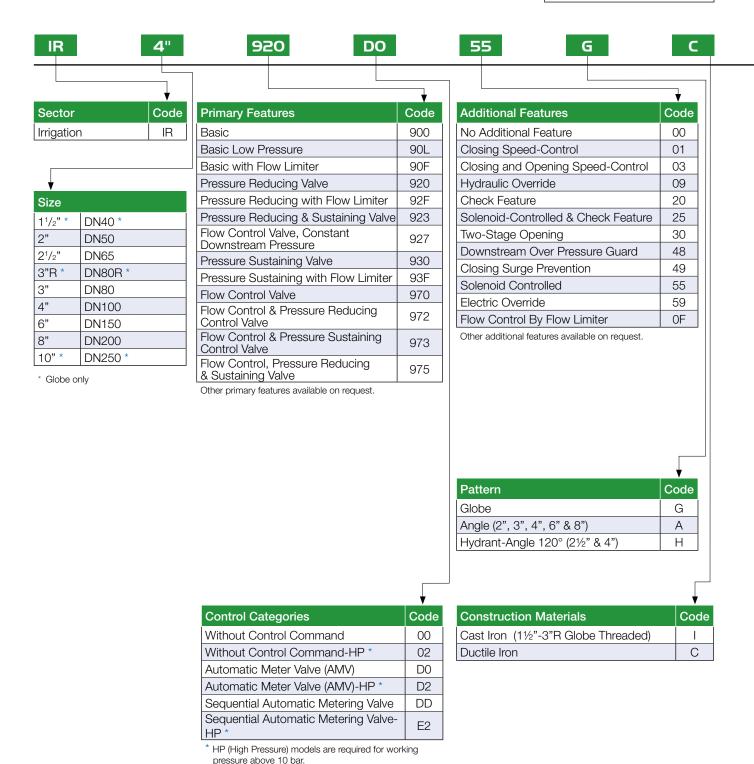
Hydrometer Pulse & Size Availability - US Gallon					
Pulse per Size	10 Gal	100 Gal	1,000 Gal		
1½", 2", 2½" & 3"R	•	•			
3" & 4"	•	•	•		
6", 8" & 10"		•	•		

 $\textbf{Note:} \ \mathsf{Pulse} \ \mathsf{combinations} \ \mathsf{are} \ \mathsf{available} \ \mathsf{according} \ \mathsf{to} \ \mathsf{``Pulse} \ \mathsf{Rate} \ \mathsf{Table''}.$



Automatic Metering Valves (AMV)

900-D Series



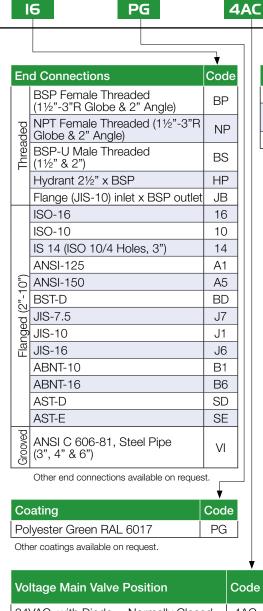




Automatic Metering Valves (AMV)

900-D Series

AMV



Voltage Main Valv	Code	
24VAC, with Diode	e - Normally Closed	4AC
24VAC, with Diode	e - 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

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

AMV m3

3.8 m³

12 m³

 40 m^3

Dial Capacity

ကီ

800

Code

004

012

040

2MG

ניט ו				
		80 m³	080	
"'n		120 m³	120	
2", 2½", 3"R,		150 m³	150	
, 2		200 m ³	200	
, 2,		350 m³	350	
11/2 ",	10,	600 m ³	600	
_	φ,	800 m ³	800	
	6,	1,200 m ³	1K0	
	4,	2,100 m ³	2K0	
	7	3,500 m ³	3K0	
		6K0		
		8K0		
	12,000 m ³			
		21,000 m ³	21K	
		AMV U.S. Gallon		
		13,000 Gal	1G0	
ش		50,000 Gal	5G0	
11/2 " - 3"	10,	130,000 Gal	1KG	
1,1	_	210,000 Gal	2KG	
	, ,	500,000 Gal	5KG	
	, 6,	875,000 Gal	8KG	
	4,	1.300.000 Gal	1MG	

2,100,000 Gal

Additional Attributes Unlimited Selection	Code
3-Way Control Loop	X
Plastic Control Accessories	K
Metal Control Accessories	R
PVDF Guide	r
Homologation Approved	L
BSP-U Union Records Assembly	М
Calibration	N
Pump Shut off Assembly (for AMV only)	S
Orifice Assembly	U
Paddle Flow Control Pilot	V
Drain & Anti-Freeze Valve	f
Large Control Filter	F
Y Control Strainer	Υ
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

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

Pulse Rate	V
Automatic Metering Valve	AMV
AMV + Pulse	DAT

For AMV with Pulse, choose:

- DAT from "Pulse Rate" table
- The desired Dial Capacity

The pulse rate is factory set according to selected dial:

Metric:

- □ 1 Pulse per 1 m³ for dials 3.8-2,100
- $\hfill \ \hfill \ \$

U.S. Gallon:

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

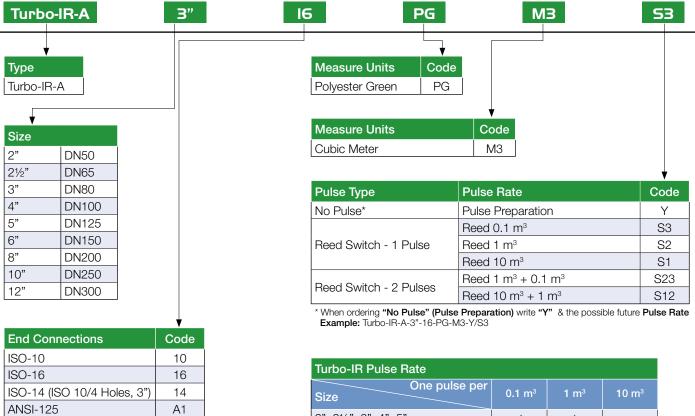
Other electrical ratings available on request.

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Water Meters for Irrigation

Turbo-IR



Turbo-IR Pulse Rate					
One pulse per	0.1 m³	1 m³	10 m³		
2", 2½", 3", 4", 5"	A	A			
6", 8", 10", 12"		A	A		

▲ Reed-switch

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

Other end connections available on request.

BD

SD

SE

В1

В6

J1

J6

BST-D

AST-D

AST-E

ABNT-10

ABNT-16

JIS-10

JIS-16



Woltman Turbine Type

Turbo-Bar WPH

Turb	o-Bar V	VPH 4"		I6 PI	В	МЗ	S
			•		•		•
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	МЗ
2 ½"	DN65	ISO-14 (ISO 10/4 Holes, 3")	14	(up to 6")			
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 r	equest.	-			+

Pulse Type	Pulse Rate m³	Code
No Pulse*	Pulse Preperation	Υ
	Reed 0.01 m ³	S4
	Reed 0.1 m ³	S3
Reed Switch 1 Pulse	Reed 1 m ³	S2
	Reed 10 m ³	S1
	Reed 100 m ³	S8
	Reed 0.1 m ³ + 0.01 m ³	S34
Reed Switch	Reed 1 m ³ + 0.1 m ³	S23
2 Pulses	Reed 10 m ³ + 1 m ³	S12
	Reed 100 m ³ + 10 m ³	S81
	Opto 0.001 m ³	SA
Opto Sensor	Opto 0.01 m ³	SB
	Opto 0.1 m ³	SC
	0.001 m³ Opto + 0.1 m³ Reed	SA3
	0.001 m ³ Opto + 1 m ³ Reed	SA2
Opto + Reed	0.01 m³ Opto + 1 m³ Reed	SB2
	0.01 m³ Opto + 10 m³ Reed	SB1
	0.1 m³ Opto + 10 m³ Reed	SC1
	0.1 m ³ Opto + 100 m ³ Reed	SC8

		▼
Pulse Type	Pulse Rate U.S. Gallon	Code
No Pulse*	Pulse Preperation	Υ
	Reed 1 Gal	S4
	Reed 10 Gal	S3
Reed Switch 1 Pulse	Reed 100 Gal	S2
1 1 dioc	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
Onto - Dood	1 Gal Opto + 100 Gal Reed	SB2
Opto + Reed	1 Gal Opto + 1,000 Gal Reed	SB1
	10 Gal Opto + 1,000 Gal Reed	
	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 Availability - Metric							
One pulse per	0.001 m ³	0.01 m ³	0.1 m³	1m³	10m³	100m³	
1½", 2", 2½", 3", 4", 5"		A	A	A			
6", 8"			A	A	A		
10"			A	A	A	A	
12", 16", 20"				A	A	A	

Turbo-Bar Pulse & Size Availability - US Gallon					
One pulse per	1 Gal	10 Gal	100 Gal	1,000 Gal	10,000 Gal
1½" - 6"	•	A	A	A	
8" - 20"			A	A	A

- ▲ Reed Switch (standard)
- Opto Electric (standard)
- ▲ Reed Switch (on request)
- Opto Electric (on request)

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

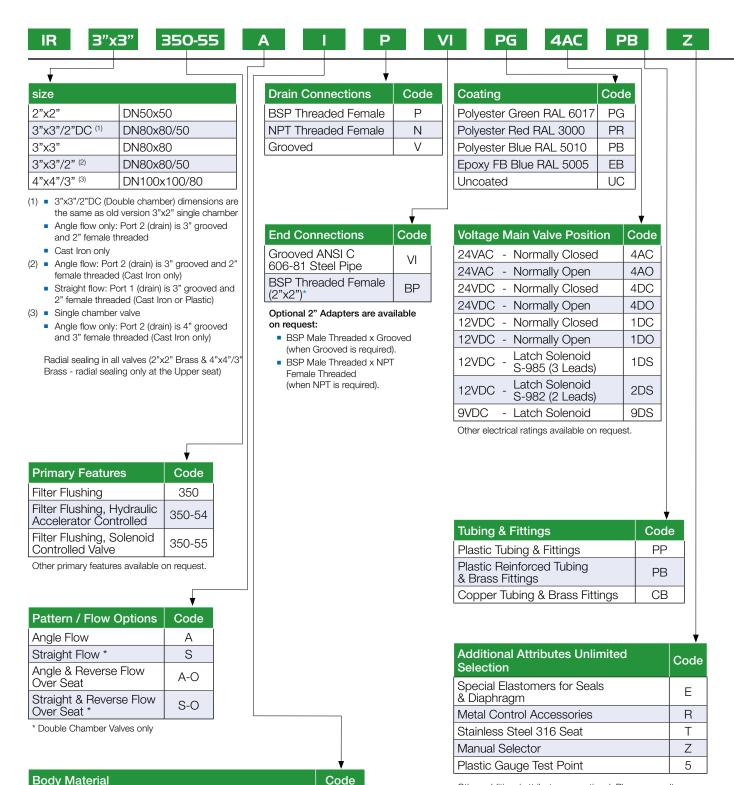


15



Filter Backwash Hydraulic Valves

350 Series



R

1

Ρ

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



Brass (2"x2")

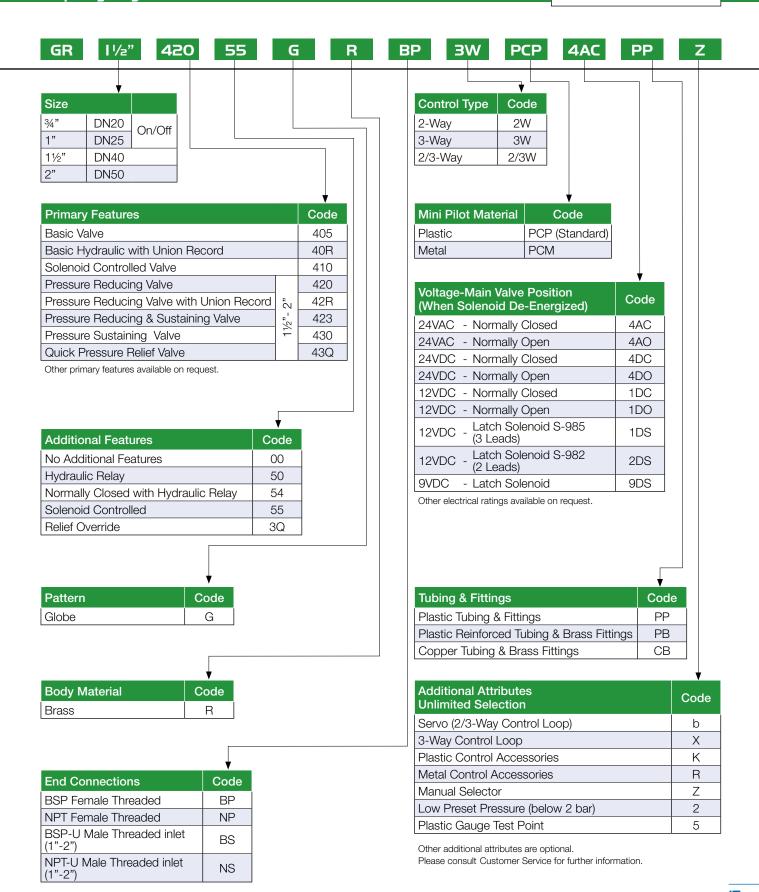
Cast Iron (3"x3"/2"DC; 3"x3"; 3"x3"/2"; 4"x4"/3")

Black Nylon - G.F. (2"x2"; 3"x3"; 3"x3"/2")



Diaphragm Hydraulic Control Valves - PN IO

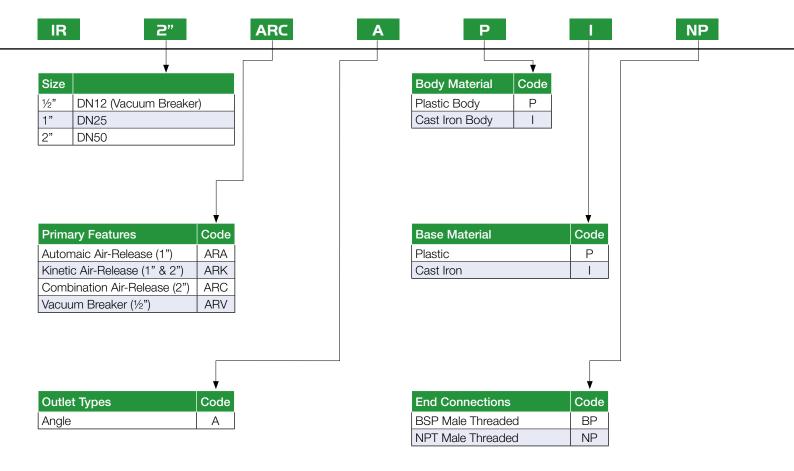
GR 400 Series





Air & Vacuum Release Valves

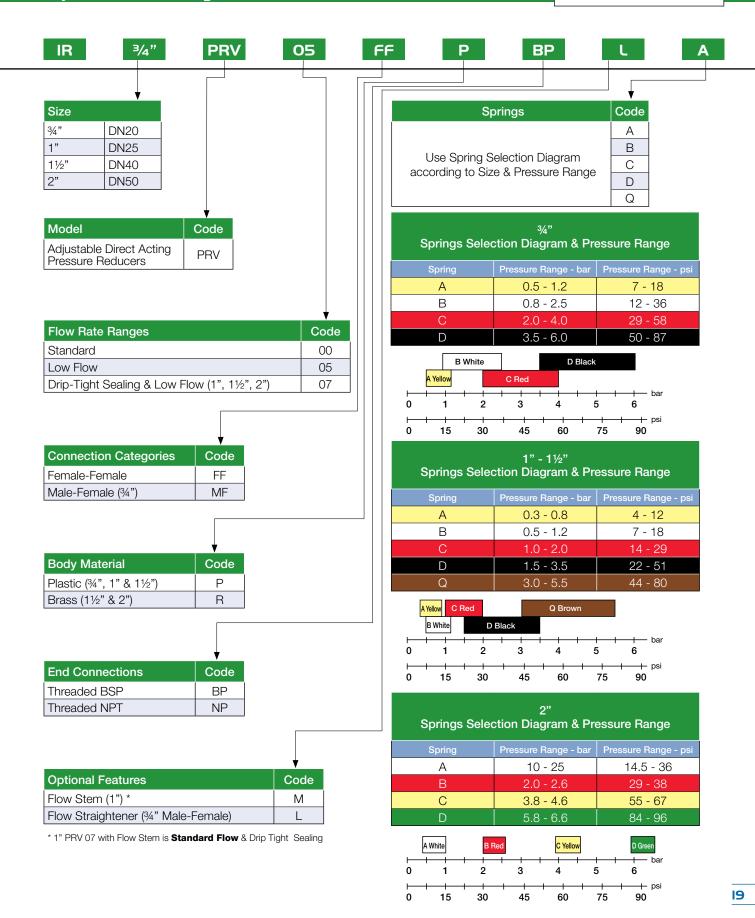
AR Series





Adjustable Direct-Acting Pressure Reducers

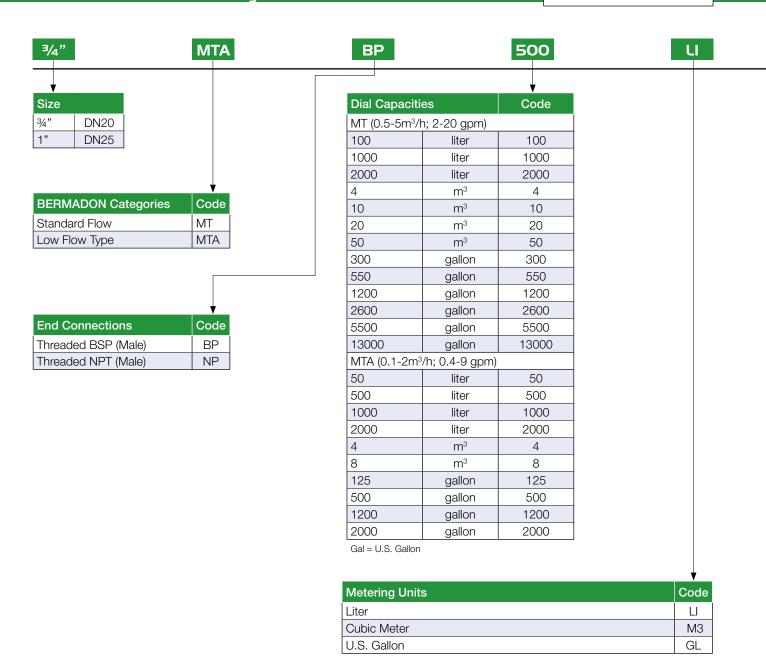
PRV Series





BERMADON Automatic Metering Valves

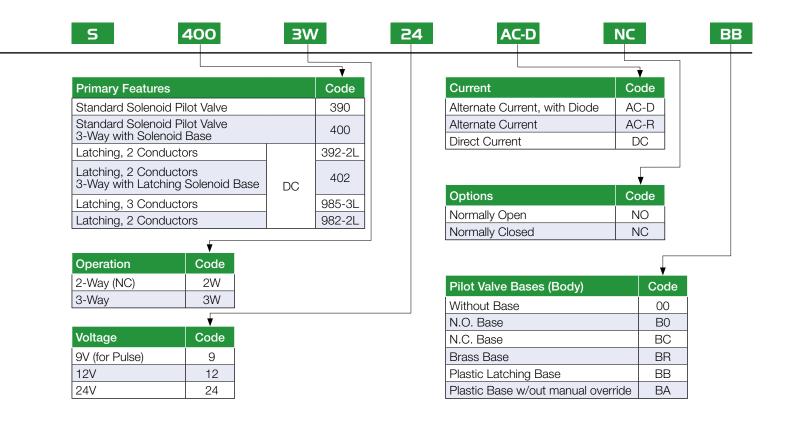
MT Series



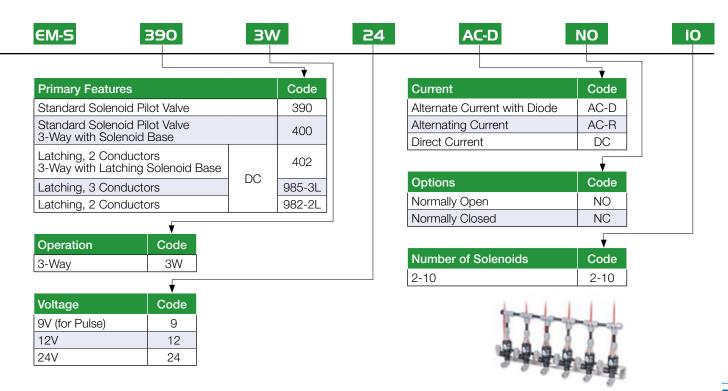


Solenoid Pilot Valves

S Series



Solenoid Pilot Valves Manifold





Mini-Pilots/Pilots

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			
	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	



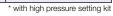
Metal Mini-Pilot - Spring Table			
	Pressure Range		
Spring	bar	psi	
M - Brown	1-16	15-230	
G - Blue	1-10/12	15-145/175	
H - Orange	1-7	15-100	
N - Natural (S.S)	0.8-6.5	11-95	
K - Gray	0.5-3	7-40	
J - Green	0.2-1.7	3-25	

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			
	Pressure 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





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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 3/8"	50-M
Metal Hydraulic Relay Valve 3-Way (3W-HRV) %"	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, ¼"	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	Υ
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 1/4"	6
Pressure Gauge 0-6, 10, 16 & 25 bar (90, 140, 230 & 350 psi) Back Port 1/4"	6
Needle for Manometer & Test-Point	-

When ordering Accessories, add Description to Code



Accessories

End Connection Adapters for 100 Series		
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



Control Tube Fittings

FT Series

	Description	Model Code	Item #
	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 1/8"-8mm	FT 28	3608015600
	Elbow Connector 1/4"-8mm	FT 58	3604015600
	¹ / ₈ " NPT Male Plug	FT 38	3608070000
	¹ / ₄ " NPT Male Plug	FT 34	3604070000
	3/8" NPT Male Plug	FT 32	3638070200
	1/2" BSPT Male Plug	FT 30	3602070000
	Bushing Male-Female 1/8" -1/8"	FT 11	3608050805
	Bushing Male-Female 1/4"-1/8"	FT 48	3604050805
To the same of the	T-Connector For Tube 8mm-8mm-8mm	FT 98	360807T600
	T-Connector For Tube 8mm-1/8"-8mm	FT 98/1	360807B600
1	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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