

Sector		Code	
Waterworks	WW		

Model		Code	
SIGMA	EN		
SIGMA	ES		

Size		Code	
700-EN			
DN40	1.5"		
DN50	2"		
DN65	2.5"		
DN80	3"		
DN100	4"		
DN150	6"		
DN200	8"		
DN250	10"		
DN300	12"		
DN400	16"		
700-ES			
DN65	2.5"		
DN80	3"		
DN100	4"		
DN125	5"		
DN150	6"		
DN200	8"		
DN250	10"		
DN300	12"		
DN350	14"		
DN400	16"		
DN450	18"		
DN500	20"		
DN600	24"		

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/Relief 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, Double Chambered Actuator	740		
Booster Pump Control & Pressure Reducing Valve	742		
Booster Pump Control & Pressure Sustaining Valve	743		
Deep Well Pump Electric Control Valve	745		
Booster Pump & Flow Control Valve	747		
Pump Circulation & Pressure Sustaining Valve	748		
Level Control Valve	750		
Level Control & Pressure Sustaining Valve	753		
Level & Flow Control Valve	757		
Level Sustaining Valve (Reservoir Outlet)	75A		
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		
Burst Control & Pressure Sustaining Valve	793		
Safety Valve (Reservoir Outlet)	79A		
Check Valve (Lift Type)	70N*		
Strainer (Stone and Gravel Trap)	70F*		

Other primary features available on request.
* Available in 700-EN only

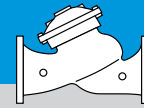
Additional Feature (Multiple Options Permitted)		Code	
No Additional Feature	00		
Closing and Opening Speed Control	03		
Hydraulic Override	09		
High Sensitivity Pilot	12*		
Electronic Control	18		
Flow Control Constant Downstream Pressure	2U		
Check Feature	20		
Pressure Reducing	22		
Independent Lift Check	25		
Pressure Sustaining	33		
Relief Override	3Q		
Closing at Pressure Rise	41		
Electrically Selected Multi-Level Setting	45		
Downstream Over Pressure Guard	48		
Closing Surge Prevention	49		
Motorized Pilot	45		
Electronic Multi-Level Setting - Type 4R (water)	4R		
Electronic Multi-Level Setting - Type 4T (air)	4T		
BEC PM1 Pressure Management Controller	4V		
2-Way Hydraulic Relay	50		
3-Way Hydraulic Relay	54		
Solenoid Controlled	55		
Electric Override	59		
w/o Electric Float (65)	6E		
w/o Hydraulic Float (60/67)	6H		
Modulating Horizontal Float	60		
Bi-Level Electric Float	65		
Bi-Level Vertical Float	66		
Modulating Vertical Float	67		
Bi-Directional Flow	70		
Level Control valve Options			
Altitude Pilot	80*		
Modulating Altitude Pilot	82*		
Sustaining Altitude Pilot	83*		
Bi-Level Altitude Control	86*		
Altitude Control with Bi-Directional Flow	87*		
Setting Range			
2-6 meter; 7-20 feet	M1		
2-14 meter; 7-46 feet	M6		
5-22 meter; 17-72 feet	M5		
15-35 meter; 49-115 feet	M4		
25-70 meter; 82-230 feet	M8		
Hydraulic Positioning	85		
Burst Control	90		
Closing at Downstream Pressure Drop	91		
Single Cavitation Cage	C1		
Double Cavitation Cage	C2		
Triple Chamber Valve	TC		
Panel Mounted Control	L1		
PRV Low Flow By-Pass	2B		
Proportional	PD		
Flow Meter**			
Battery Powered	T1		
90-264V AC Powered	T2		
12-24V AC-DC Powered	T3		
90-264V AC Powered with GSM	T4		
12-24V AC-DC Powered with GSM	T5		
Battery Powered with 10m cable	T6		
Pressure Management	PM		
Dual Control System	X2		
Drinking Water Compliance			
WRAS		P1	
DVGW			
ACS			
PZH			
GOST			
BULGARCONTROLA			
NSF 61/372		P2	
AS 5081		P3	
Unregistered		P0	

Other additional features available on request.
* Select Setting Range
** Only for 3"-24" Valves

Pattern		Code	
Oblique	Y		

Construction Material		Code	
Ductile Iron	C		

End Connection		Code	
ISO 7005 PN10	10		
ISO 7005 PN16	16		
ISO 7005 PN25	25		
ISO 7005 PN16/25	26		
ANSI #150-RF	A5		
ANSI #300-RF	A3		
ANSI #150-FF	a5		
ANSI #300-FF	a3		
ABNT PN10	B1		
ABNT PN16	B6		
ABNT PN25	B2		
AS 4087 PN16	SA		
AS 4087 PN35	SB		
AS 2129 - C	SC		
AS 2129 - D	SD		
AS 2129 - E	SE		
AS 2129 - F	SF		
AS 2129 - H	SH		
BS 10 - D	BD		
BS 10 - E	BE		
BS 10 - H	BH		
JIS B2239 10K	J1		
JIS B2239 16K	J6		
JIS B2239 20K	J2		
KSB-1511-10K	K0		
KSB-1511-16K	K6		
KSB-1511-20K	K4		
KSD-3578-F12	K1		
KSD-3578-F15	K5		
KSD-3578-F20	K2		
Undrilled Type A	OA		
Undrilled Type B	OB		
Undrilled Type C	OC		



EB

4AC

NN

V

Voltage	Main Valve Position (When Solenoid De-energized)	Code
24VAC/50Hz	- Normally Closed	4AC
24VAC/50Hz	- Normally Open	4AO
24VAC/50Hz	- Last Position	4AP
24VAC/60Hz	- Normally Closed	46C
24VAC/60Hz	- Normally Open	46O
24VAC/60Hz	- Last Position	46P
24VDC	- Normally Closed	4DC
24VDC	- Normally Open	4DO
24VDC	- Last Position	4DP
24VDC	- Latch Solenoid	4DS
220VAC/50-60Hz	220VAC/50-60Hz - Last Position	2AP
220VAC/50-60Hz	220VAC/50-60Hz - Normally Closed	2AC
220VAC/50-60Hz	220VAC/50-60Hz - Normally Open	2AO
220VDC	- Normally Closed	2DC
220VDC	- Normally Open	2DO
220VDC	- Latch Solenoid	2DS
110VAC/50-60Hz	110VAC/50-60Hz - Normally Closed	5AC
110VAC/50-60Hz	110VAC/50-60Hz - Normally Open	5AO
110VDC	- Normally Closed	5DC
110VDC	- Normally Open	5DO
110VDC	- Latch Solenoid	5DS
12VDC	- Normally Closed	1DC
12VDC	- Normally Open	1DO
12VDC	- Last Position	1DP
12VDC	- Latch Solenoid	1DS

Tubing & Fittings	Code
St. St. 316 Tubing & Fittings	NN
Copper Tubing & Brass Fittings	CB
Plastic Reinforced Tubing & Brass Fittings	PB

Additional Attributes (Multiple Options Permitted)	Code
Double Chamberd - Active	B
In-Line Filter	C
S.S 316 Actuator Internal Assembly	D
EPDM Elastomers (Seals & Diaphragm)	E1
VITON Elastomers (Seals & Diaphragm)	E2
Large Control Filter	F
Extra Large Control Filter	F1
Two Large Control Filters	FF
Two Extra Large Control Filters	F1F1
High Grade Bearing & Stem	K
Balancing Piston Assembly	G
Valve Position Indicator	I
Junction Box	J
Lifting Spring	L
Flow Stem	M
S.S.316 All Control Accessories	N
Flow Over The Seat	O
Pressure Switch	P
Valve Position Transmitter*	Q
Valve Position Transmitter For Side Indicator*	Q2
Delrin Bearing	R
Electric Limit-Switch*	S
Electric Limit Switch For for Side Indicator*	S2
Double Limit Switch Assy*	SS
S.S 316 Internal Trim Closure & Seat	T
Differential Flow Sensor (Orifice)	U
V-Port Throttling Plug	V
3W Conrol	X
3 Position Manual Control Selector	Z
Pressure Separator	d
External Control Pressure	e
Pitot Tube	j
St.St.316 Small Control Accessories (Check/Needle/Y" Filter)	n
Closing Spring	q
PVDF Bearing	r
Pressure Gauges	6
Double Pressure Gauge	66
S.S Pressure Gauge	6n
Double S.S Pressure Gauges	6n6n

Coating	Code
Epoxy FB Dark Blue	EB
Epoxy FB Dark Blue and UV protection	EV

Other coatings available on request.

Reduction Ratios					
700-EN			700-ES		
Size	Flat Disk	V-Port	Size	Flat Disk	V-Port
DN40; 1.5"	2.8	3.0	DN65; 2.5"	2.8	3.0
DN50; 2"	2.8	3.0	DN80; 3"	2.8	3.0
DN65; 2.5"	2.8	3.2	DN100; 4"	2.6	2.8
DN80; 3"	2.7	3.0	DN125; 5"	2.5	2.8
DN100; 4"	2.4	2.6	DN150; 6"	2.4	2.7
DN150; 6"	2.4	2.6	DN200; 8"	2.4	2.6
DN200; 8"	2.3	2.5	DN250; 10"	2.3	2.5
DN250; 10"	2.3	2.5	DN300; 12"	2.3	2.5
DN300; 12"	2.2	2.4	DN350; 14"	2.3	2.5
DN400; 16"	2.2	2.3	DN400; 16"	2.2	2.4
			DN450; 18"	2.2	2.3
			DN500; 20"	2.2	2.3
			DN600; 24"	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.

* Include I