

MODEL NUMBERS

Research® Control Valves

1. FIRST 4 DIGITS ARE BASE MODEL NUMBER AND DESIGNATE VALVE SIZE 1001 - 1/4" VALVE 1002 - 1/2" VALVE 1003- 3/4" VALVE 1004 - 1" VALVE 1005 - 1-1/2" VALVE 1007 - 2" VALVE 2. NEXT 2 DIGITS DESIGNATE BODY TYPE GC - GLOBE CAST GB - GLOBE BARSTOCK AB - ANGLE BARSTOCK AH - ANGLE HIGH PRESSURE (UNION) GH - GLOBE HIGH PRESSURE (UNION) TC - THREE-WAY CAST TB - THREE-WAY BARSTOCK GS - GLOBE SANITARY AS - ANGLE SANITARY GE - GLOBE, EXTENDED (CBX,HAST-C BELLOW) GU-GLOBE CAST HIGH PRESSURE UNION 3. NEXT DIGIT DESIGNATES BODY END FITTING N - NPT F - FLANGED (DOES NOT SPECIFY SIZE, RATING OR FACE FINISH) S - SOCKET WELD (DOES NOT SPECIFY SIZE) B - BUTT WELD (EXTENSION NIPPLES) [DOES NOT SPECIFY SIZE] T - TUBE FITTINGS (E.G., SWAGELOK, AE, ETC) W - WAFER (CLAMP BETWEEN FLANGES) Y - CLAMP TYPE (SANITARY) U - UNION TYPE (SANITARY) 4. NEXT 2 DIGITS DESIGNATE THE BODY-BONNET MATERIAL 16-DIN 1.4462/Duplex 2205 17-DIN 1.4571/1.4581 36 - 316 S/S 3L - 316L S/S 34 - 304 S/S 37 - 347 S/S BR - BRASS OR BRONZE CS - CARBON STEEL MN - MONEL C2 - CARPENTER 20 (ALLOY 20) HB - HASTELLOY B (ALLOY B) HC - HASTELLOY C (ALLOY C) H2 - HASTELLOY C-22 HG - HASTELLOY G IN - INCONEL TI - TITANIUM TA - TANTALUM NI - NICKEL KY - KYNAR PC - PVC ZR - ZIRCONIUM 5. NEXT 2 DIGITS DESIGNATE BONNET STYLE AND PACKING SV - STANDARD BONNET - CV RING PACKING SK - STANDARD BONNET - KALREZ CV RINGS SG - STANDARD BONNET - GRAFOIL PACKING SR - STANDARD BONNET - REVERSED CV RING CV - COOLING FIN BONNET - CV RING PACKING CG - COOLING FIN BONNET - GRAFOIL PACKING CK - COOLING FIN BONNET - KALREZ CV RINGS CM - COOLING FIN - MEDIUM GUIDED (PACKING NOT SPECIFIED, ASSUMES PTFE) BV - BELLOW BONNET - CV RING PACKING BG - BELLOW BONNET - GRAFOIL PACKING	EG - EXTENSION NECK BONNET - GRAFOIL EV - EXTENSION NECK BONNET - CV RING HV - HEAVY DUTY GUIDE - CV RING PACKING HG - HEAVY DUTY GUIDE - GRAFOIL KV - H.D. GUIDED COOLING FIN - CV RING KG - H.D. GUIDED COOLING FIN - GRAFOIL MV - MEDIUM GUIDED TRIM W/CV RINGS DV - DOUBLE CV RINGS (PTFE) DK - DOUBLE CV RINGS (KALREZ) MU - MANUAL, UNION,DISK PACKING SANITARY BONNETS: YO - CLAMP TYPE WITH "O" RING UO - UNION TYPE WITH "O" RING YD - CLAMP TYPE WITH DOUBLE "O" RINGS UD - UNION TYPE WITH DOUBLE "O" RINGS YP - CLAMP TYPE WITH PURGE PORT AND DOUBLE "O" RINGS UP - UNION TYPE WITH PURGE PORT AND DOUBLE "O" RINGS YR - SANITARY CLAMP TYPE WITH ROLLING DIAPHRAGM YR - SANITARY CLAMP TYPE WITH ROLLING DIAPHRAGM 6. NEXT 2 DIGITS DESIGNATE ACTUATOR TYPE OS - ATO STANDARD CS - ATC STANDARD OP - ATO-P WITH POSITIONER CP - ATC-P WITH POSITIONER OB-ATO WITH BUYOUT POSITIONER CB-ATC WITH BUYOUT POSITIONER OR - ATO REVERSIBLE CR - ATC REVERSIBLE O3 - ATO S/S TOPWORKS C3 - ATC S/S TOPWORKS OO - LESS TOPWORKS MN - MANUAL OE - EVA-1 SIGNAL TO OPEN CE - EVA -1 SIGNAL TO CLOSE O9 - EVA-100/200 SIGNAL TO OPEN C9 - EVA-100/200 SIGNAL TO CLOSE OH - ATO WITH HANDWHEEL CH - ATC WITH HANDWHEEL OT - ATO SIZE 35 (1.125" MOUNTING) WITHOUT POSITIONER CT - ATC SIZE 35 (1.125" MOUNTING) WITHOUT POSITIONER OW - ATO SIZE 35 (1.125" MOUNTING) WITH POSITIONER CW - ATC SIZE 35 (1.125" MOUNTING) WITH POSITIONER OZ - ATO SIZE 35 (1.0" MOUNTING) WITH POSITIONER [FOR BA-2500, BA-2030, ETC] CZ - ATC SIZE 35 (1.0" MOUNTING) WITH POSITIONER [FOR BA-2500, BA-2030, ETC] 7. NEXT 3 DIGITS DESIGNATE TRIM SIZE & CHARACTERISTIC <i>"EXAMPLES ONLY"</i> <table><tr><td>ALN - "A" LINEAR</td><td>ELN-"E" LINEAR</td></tr><tr><td>BEP - "B" =%</td><td>FEP-"F" =%</td></tr><tr><td>CLN - "C" LINEAR</td><td>GLN-"G" LINEAR</td></tr><tr><td>DEP - "D" =%</td><td>HEP-"H" =%</td></tr><tr><td>60L - 6.0 LINEAR</td><td>45L - 4.5 LINEAR</td></tr><tr><td>50P = 5.0 =%</td><td>35P = 3.5 =%</td></tr><tr><td>P01 - "P-1"</td><td>P15 - "P-15"</td></tr><tr><td>AQO - "A" QUICK OPEN - METAL TO METAL</td><td></td></tr><tr><td>AQS - "A" QUICK OPEN - SOFT SEAT</td><td></td></tr><tr><td>ALS - "A" LINEAR SOFT SEAT</td><td></td></tr></table>	ALN - "A" LINEAR	ELN-"E" LINEAR	BEP - "B" =%	FEP-"F" =%	CLN - "C" LINEAR	GLN-"G" LINEAR	DEP - "D" =%	HEP-"H" =%	60L - 6.0 LINEAR	45L - 4.5 LINEAR	50P = 5.0 =%	35P = 3.5 =%	P01 - "P-1"	P15 - "P-15"	AQO - "A" QUICK OPEN - METAL TO METAL		AQS - "A" QUICK OPEN - SOFT SEAT		ALS - "A" LINEAR SOFT SEAT		000 - LESS TRIM APS - "A" =% SOFT SEAT NOTE: THESE ARE JUST EXAMPLES OF HOW THE INNERVALVE MODEL NUMBER IS CONSTRUCTED. A COMPLETE LIST OF ALL THE INNERVALVES WOULD BE TOO LARGE TO LIST. 8. NEXT 2 DIGITS DESIGNATE TRIM MATERIAL (NORMALLY SAME AS BODY MATERIAL) 16-DIN 1.4462/Duplex 2205 17-DIN 1.4571 36 - 316 S/S 3L - 316L S/S ST - STELLITE (WITH 316 BASE MATERIAL) S6 - STELLITE - 416 S/S HB - HASTELLOY B (ALLOY B) HC - HASTELLOY C (ALLOY C) H2 - HASTELLOY C-22 HG - HASTELLOY G 3T - 316 S/S - TEFLON 3K - 316 S/S - KEL-F TC - TUNGSTEN CARBIDE S3 - STELLITE - 316 S/S S2 - STELLITE - CARP. 20 SB - STELLITE - HAST. B SC - STELLITE - HAST. C TA - TANTALUM TI - TITANIUM KY - KYNAR PC - PVC NI - NICKEL MN - MONEL 37 - 347 S/S S4 - STELLITE & 304 C2 - CARPENTER 20 (ALLOY 20) TS - TITANIUM NITRIDE COATED STELLITE SP - STELLITE & PHOSPHOR BRONZE (P TRIM) ZR - ZIRCONIUM NOTE: "X" IN ANY SPACE DENOTES "SPECIAL" ADDITIONAL MODEL NUMBERS 1000 PARTS 1006 REPAIRS 1011 1/4" TRIM 1012 1/2" TRIM 1013 3/4" TRIM 1014 1" TRIM 1015 1-1/2" TRIM 1016 "P" TRIM 1017 TOPWORKS EXAMPLE: 1002 GC N 36 SV OS ALN 36 1002 - 1/2" VALVE GC - GLOBE CAST N - NPT 36 - 316 S/S SV - STD BONNET - CV RING PACKING OS - ATO STANDARD ALN - "A" LINEAR 36 - 316 S/S  QUESTIONS? Call: (918) 836-8411 Fax: (918) 832-9962 E-Mail: rcv@badgermeter.com BADGER METER, INC.
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