



Control  
Devices, LLC

SET PRESSURE, RELIEF  
CAPACITY, "UV" SYMBOL,  
AND "NB" STAMPED ON BODY

11/16 WRENCHING FLATS

# PRODUCT CATALOG

VALVES & NOZZLES

FLOAT VALVES

CONDENSATE TRAPS

REFRIGERANT DISTRIBUTORS

1555 LARKIN WILLIAMS ROAD FENTON, MISSOURI 63026

+1 636.660.7100 +1 800.233.1477





## BUSINESS

### OVERVIEW

HEADQUARTERED IN FENTON, MISSOURI, CONTROL DEVICES' 100,000 SQUARE FOOT, ISO 9001:2008 CERTIFIED FACILITY BOASTS A DEDICATED AND SKILLED WORK FORCE UTILIZING AUTOMATIC MACHINING, ASSEMBLY AND FINAL TEST EQUIPMENT TO SUPPORT ITS PRODUCTION NEEDS.

CONTROL DEVICES PRODUCTS ARE WIDELY AVAILABLE THROUGH A NETWORK OF NATIONAL AND REGIONAL DISTRIBUTORS, AND ARE PRESENT IN THE PRODUCTS OF MANY WELL-KNOWN AND PRESTIGIOUS NATIONAL AND INTERNATIONAL BRANDS.

CONTROL DEVICES PROVIDES ITS CUSTOMERS WITH A FULL RANGE OF SPECIALTY ENGINEERING AND MANUFACTURING CAPABILITIES. OUR WORLD-CLASS ENGINEERING DEPARTMENT WORKS CLOSELY WITH MANY CUSTOMERS TO DESIGN, TEST AND DEVELOP PROPRIETARY EQUIPMENT TO FIT SPECIFIC NEEDS AND TO CUSTOMIZE EXISTING PRODUCTS IN OUR DESIGNATED ENGINEERING/R&D LAB. WE ALSO HOUSE A FULLY-STAFFED QUALITY CONTROL LABORATORY ON-SITE TO ENSURE THE FINAL PRODUCT OUTPUT CONTINUES TO MEET OR EXCEED INDUSTRY REQUIREMENTS.



### MARKET SEGMENTS & PRODUCTS

#### OUR VALVES AND NOZZLES:

THE ORIGINAL CONTROL DEVICES BUSINESS INVOLVED THE DESIGN AND MANUFACTURE OF VALVES AND CONTROLS FOR AIR COMPRESSOR MANUFACTURERS. ALTHOUGH THIS BUSINESS STARTED IN 1963, IT REMAINS THE LARGEST SEGMENT OF OUR BUSINESS TODAY. THROUGH A CLOSE RELATIONSHIP WITH OUR CUSTOMERS, CONTROL DEVICES HAS BEEN ABLE TO GROW OUR PRODUCT LINE INTERNALLY TO MEET THE DEMANDS AND EXPECTATIONS OF A TECHNOLOGICALLY SAVVY INDUSTRY. THE MARKETS WE TOUCH ARE EXTENSIVE AND INCLUDE THE PRESSURE WASHER, AIR COMPRESSOR, FIRE SUPPRESSION, VEHICLE SYSTEMS AND CALIBRATION GAS INDUSTRIES. OUR NOZZLES AND VALVE COMPONENTS CAN BE FOUND ON THE SHELVES IN VARIOUS BIG BOX RETAILERS, MECHANIC SHOPS AND FACTORIES, IN COMMERCIAL VEHICLES AND TRAILERS, AND IN A LARGE VARIETY OF INDUSTRIAL SETTINGS.

OUR IN-HOUSE ENGINEERING TEAM WORKS TIRELESSLY ON NEW PRODUCT DEVELOPMENT WHILE PROVIDING SUPPORT FOR OUR EXISTING PRODUCT LINES. THE DESIGN AND TESTING TAKES PLACE ON-SITE IN OUR ENGINEERING LABORATORY IN AN EFFORT TO MAINTAIN OUR COMMITMENT TO EXCELLENCE AND OUR EXTENSIVE IN-HOUSE PATENTED PRODUCTS LIBRARY.

#### OUR FLOAT VALVES:

IN 2010, CONTROL DEVICES INTRODUCED FLOAT VALVES TO OUR ALREADY EXPANSIVE PRODUCT LINE VIA THE ACQUISITION OF ROBERTS MANUFACTURING COMPANY (RMC) OF RANCHO CUCAMONGA, CALIFORNIA. A COMPANY WITH OVER 70 YEARS OF MANUFACTURING INDUSTRY KNOW-HOW, RMC DESIGNED AND PATENTED THE BOB® LINE OF PERFORMANCE BRASS AND STAINLESS STEEL FLOAT VALVES, BOBBY® VALVE RESERVOIR ASSEMBLIES AND BOBBY® MINIATURE FLOAT VALVES. TODAY, CONTROL DEVICES CONTINUES THE LEGACY OF THE RMC VISION WHILE WORKING TO DESIGN, ENGINEER AND MARKET NEW CONCEPTS WITHIN THE FLOAT VALVE INDUSTRY, SERVING DIVERSE APPLICATIONS FROM ICE-MAKING EQUIPMENT AND COOLING TOWERS TO LIVESTOCK WATERING EQUIPMENT.





## BUSINESS

### OUR CONDENSATE TRAPS:

CONTROL DEVICES EXPANDED ITS OFFERING FOR COMPRESSED AIR APPLICATIONS WHEN IT ACQUIRED DRAIN-ALL® OF KNOXVILLE, TENNESSEE IN 2011. DRAIN-ALL®'S EXTENSIVE LINE OF PATENTED "ZERO-LOSS" CONDENSATE TRAPS NICELY COMPLEMENTED CONTROL DEVICES' EXISTING PRODUCT LINE, CONTRIBUTING ENERGY-SAVING, PERFORMANCE-IMPROVING FUNCTIONALITY TO MANY COMPRESSED AIR AND COMPRESSED GAS SYSTEM APPLICATIONS. DRAIN-ALL®'S CONDENSATE HANDLER HAS BECOME AN INDUSTRY STANDARD FOR PURGING WATER FROM COMPRESSED AIR SYSTEMS IN A HIGHLY EFFICIENT AND ENERGY-SAVING WAY, AND THE SAME PATENTED DESIGN HAS BEEN MODIFIED TO ACCOMMODATE A VARIETY OF NON-STANDARD APPLICATIONS INCLUDING HIGH AND LOW-PRESSURE ENVIRONMENTS, HIGH TEMPERATURES, AND HIGH CONCENTRATIONS OF RUST OR OTHER SOLIDS.

### QUALITY

CONTROL DEVICES HAS EMPLOYED THE AUTOMOTIVE FIELD'S ADVANCED PRODUCT QUALITY PLANNING (APQP) CRITERIA INTO ITS DAY-TO-DAY QUALITY ASSURANCE OPERATIONS FOR OUR ENTIRE PRODUCT LINE. APQP HAS THREE SPECIFIC PHASES TO INSURE PRODUCT QUALITY: DEVELOPMENT, INDUSTRIALIZATION, AND PRODUCT LAUNCH, AND IT IS THROUGH THIS PROCESS THAT WE MANUFACTURE, ASSEMBLE, INSPECT AND SHIP OUR NOZZLES, VALVES, FLOAT VALVES AND CONDENSATE TRAPS.

OUR QUALITY ASSURANCE LABORATORY IS FULLY-STAFFED AND EQUIPPED WITH PRECISION MEASUREMENT EQUIPMENT, A CALIBRATION SYSTEM, A ROCKWELL HARDNESS TESTER, CAMERA MICROSCOPE CAPABILITIES AND A SURFACE FINISH ANALYZER AND COMPARATOR; OPERATED BY EMPLOYEES WITH DECADES OF COMBINED QUALITY ASSURANCE EXPERIENCE.

AS A RESULT OF THIS QUALITY COMMITMENT WE MAINTAIN OUR ISO CERTIFICATION, ALONG WITH THE FOLLOWING OTHER INDUSTRY-SPECIFIC CERTIFICATIONS:

- ISO 9001: 2008
- AMERICAN SOCIETY OF MECHANICAL ENGINEER FOR SAFETY VALVES (ASME)
- PRESSURE EQUIPMENT DIRECTIVE FOR SAFETY VALVES (PED)
- CE MARK THROUGH BRITISH STANDARDS INSTITUTE

IT IS A TOP PRIORITY AT CONTROL DEVICES TO MAINTAIN A HIGH LEVEL OF QUALITY THAT EXCEEDS ALL INDUSTRY STANDARDS, AND WE WORK HARD TO COMMUNICATE AND REINFORCE THIS COMMITMENT DAILY TO ALL OF OUR EMPLOYEES.

### ENGINEERING

BEHIND EVERY FORWARD-THINKING, INNOVATIVE COMPANY IS A HIGHLY EXPERIENCED ENGINEERING TEAM, AND CONTROL DEVICES IS NO EXCEPTION TO THIS RULE. WE HAVE ASSEMBLED A STAFF OF HIGHLY COMPETENT, WELL-TRAINED AND DEGREEED ENGINEERS FOR BOTH OUR PRODUCT ENGINEERING AND MANUFACTURING ENGINEERING TEAMS.

OUR PRODUCT ENGINEERING AND DESIGN TEAM WORKS ON NEW PRODUCTS AS WELL AS SUPPORT FOR OUR EXISTING PRODUCT LINES. OUR ENGINEERS ARE AVAILABLE TO ANSWER QUESTIONS, PROVIDE DRAWINGS AND TECHNICAL INFORMATION, AND THEY WELCOME THE INTERACTION WITH OUR CUSTOMERS TO ENSURE EVERY CONTROL DEVICES' PRODUCT WE SELL WILL WORK EFFICIENTLY, EFFECTIVELY AND TO SPECIFICATION. IN CONJUNCTION WITH THEIR HANDS-ON CUSTOMER SUPPORT, THE ENGINEERS WORK ON THE DEVELOPMENT OF PROPRIETARY PRODUCTS OF OUR OWN DESIGN OR IN COLLABORATION WITH OUR CUSTOMERS.

OUR ON-SITE ENGINEERING LAB IS CONSTANTLY TESTING PRODUCT CAPABILITIES IN AN EFFORT TO IMPROVE, DEVELOP AND DESIGN INDUSTRY-LEADING PRODUCTS, KEEPING OUR COMPANY AT THE FOREFRONT OF THE INDUSTRY AND ADDRESSING, WHAT WE BELIEVE WILL BE, THE NEWEST TRENDS IN THE MARKET SEGMENTS WE SERVE.

WORKING HAND-IN-HAND WITH OUR PRODUCT ENGINEERING TEAM IS OUR MANUFACTURING ENGINEERING TEAM, WHICH PROVIDES IN-HOUSE DESIGN AND PRODUCTION OF CUSTOM ASSEMBLY AND TEST EQUIPMENT. IN OUR NEW FENTON, MISSOURI FACILITY, WE DESIGNATED A LARGE SEGMENT OF OUR PRODUCTION FLOOR TO OUR MANUFACTURING MODEL SHOP IN ORDER TO HOUSE OUR STATE-OF-THE-ART LATHE AND CNC EQUIPMENT FOR SAMPLE PRODUCTION.

ALL OF OUR EQUIPMENT MAINTENANCE IS PERFORMED ON-SITE BY THE MANUFACTURING ENGINEERING TEAM IN AN EFFORT TO MAINTAIN AND IMPROVE OUR EXISTING PRODUCTION CAPABILITIES AND HONOR OUR COMMITMENT TO MEET OUR CUSTOMERS' DEMAND.

KEEPFLO, INC. WAS ACQUIRED BY CONTROL DEVICES, LLC IN 2012. KEEPFLO IS A LEADING MANUFACTURER OF REFRIGERANT DISTRIBUTORS, CRITICAL COMPONENTS OF AIR CONDITIONING AND REFRIGERATION SYSTEMS. KEEPFLO SUPPLIES REFRIGERANT DISTRIBUTORS AND BRAZED ASSEMBLIES TO LEADING AIR CONDITIONING AND REFRIGERATION OEMs, SUBSYSTEM MANUFACTURERS, AND NATIONAL AND REGIONAL DISTRIBUTORS.





**VALVES & NOZZLES**





## OUR VALVES & NOZZLES

THE ORIGINAL CONTROL DEVICES BUSINESS INVOLVED THE DESIGN AND MANUFACTURE OF VALVES AND CONTROLS FOR AIR COMPRESSOR MANUFACTURERS ALTHOUGH THIS BUSINESS STARTED IN 1963, IT REMAINS THE LARGEST SEGMENT OF OUR BUSINESS TODAY. THROUGH A CLOSE RELATIONSHIP WITH OUR CUSTOMERS, CONTROL DEVICES HAS BEEN ABLE TO GROW OUR PRODUCT LINE INTERNALLY TO MEET THE DEMANDS AND EXPECTATIONS OF A TECHNOLOGICALLY SAVVY INDUSTRY. THE MARKETS WE TOUCH ARE EXTENSIVE AND INCLUDE THE PRESSURE WASHER, AIR COMPRESSOR, FIRE SUPPRESSION, VEHICLE SYSTEMS AND CALIBRATION GAS INDUSTRIES. OUR NOZZLES AND VALVE COMPONENTS CAN BE FOUND ON THE SHELVES IN VARIOUS BIG BOX RETAILERS, MECHANIC SHOPS AND FACTORIES, IN COMMERCIAL VEHICLES AND TRAILERS, AND IN A LARGE VARIETY OF INDUSTRIAL SETTINGS.

OUR IN-HOUSE ENGINEERING TEAM WORKS TIRELESSLY ON NEW PRODUCT DEVELOPMENT WHILE PROVIDING SUPPORT FOR OUR EXISTING PRODUCT LINES. THE DESIGN AND TESTING TAKES PLACE ON-SITE IN OUR ENGINEERING LABORATORY IN AN EFFORT TO MAINTAIN OUR COMMITMENT TO EXCELLENCE AND OUR EXTENSIVE IN-HOUSE PATENTED PRODUCTS LIBRARY.





# VALVES & NOZZLES

## AIR COMPRESSORS > ASME-CODE SAFETY VALVES

### MODEL "SP"

MODEL "SP" ASME SAFETY VALVES ARE DESIGNED FOR APPLICATIONS WHERE A COMPACT SIZE IS REQUIRED FOR HIGH FLOW CAPACITIES. FOR EXAMPLE, A 3-HP COMPRESSOR MAY ADD 10 SCFM OF AIR INTO THE RECEIVER AT 125 PSI. THE "SP" WILL FLOW 42 SCFM AT 125 PSI SET PRESSURE, SO IT WILL BE ADEQUATE FOR THIS SYSTEM. RESILIENT FLUOROCARBON RUBBER PAD ENSURES VALVE IS BUBBLE-TIGHT TO WITHIN 10% OF SET PRESSURE. THE VALVE IS STAMPED WITH "UV" AND "NB" SYMBOLS. SET PRESSURE TOLERANCE IS +/-3%.

**CONSTRUCTION:** ALL BRASS WITH STAINLESS STEEL SPRINGS

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (oz)
		Height	Wrench. Flat		
SP12	1/8 NPT	1.6	9/16	75-250	1.0
SP25	1/4 NPT	1.6	9/16	75-250	1.0



### MODEL "ST"

MODEL "ST" ASME SAFETY VALVE IS OUR STANDARD SAFETY VALVE FOR SMALL AIR COMPRESSOR SYSTEMS AND OTHER RELATED APPLICATIONS. WHILE THE SIZE IS COMPACT, THE FLOW CAPACITIES ARE HIGH. RESILIENT RUBBER PAD, OFFERED IN SILICONE OR FLUOROCARBON, ENSURES VALVE IS BUBBLE-TIGHT TO WITHIN 10% OF SET PRESSURE. THE VALVE IS STAMPED WITH "UV" AND "NB" SYMBOLS. SET PRESSURE TOLERANCE IS +/-3%.

**CONSTRUCTION:** ALL BRASS, ZINC-PLATED MUSIC WIRE OR STAINLESS STEEL SPRING

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (oz)
		Height	Wrench. Flat		
ST12	1/8 NPT	2	11/16	25-350	2.0
ST25	1/4 NPT	2	11/16	25-350	2.0
ST38	3/8 NPT	2	11/16	25-350	2.0



# VALVES & NOZZLES

## AIR COMPRESSORS > ASME-CODE SAFETY VALVES

### MODEL "SA"

MODEL "SA" ASME SAFETY VALVES ARE DESIGNED FOR HIGH TEMPERATURE APPLICATIONS SUCH AS INTERCOOLERS AND AFTER-COOLERS, WHERE A COMPACT SIZE IS REQUIRED. THE VALVE IS STAMPED WITH "UV" AND "NB" SYMBOLS. SET PRESSURE TOLERANCE IS +/-3%.

**CONSTRUCTION:** ALL BRASS, STAINLESS STEEL SPRING AND STAINLESS STEEL BALL SEATING ON BRASS SEAT

**MAX. TEMPERATURE:** 400°F

Part Number	Inlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (oz)
		Height	Wrench. Flat		
SA12	1/8 NPT	2.11	11/16	50-350	2.5
SA12	1/4 NPT	2.11	11/16	50-350	2.5
SA38	3/8 NPT	2.11	11/16	50-350	2.5



### MODEL "SF"

MODEL "SF" ASME SAFETY VALVES ARE DESIGNED FOR SYSTEMS WHERE LARGE FLOW CAPACITIES ARE NEEDED. RESILIENT PAD ENSURES VALVE IS BUBBLE-TIGHT TO WITHIN 10% OF SET PRESSURE. THE VALVE IS STAMPED WITH "UV" AND "NB" SYMBOLS. SET PRESSURE TOLERANCE IS +/- 3%.

**CONSTRUCTION:** ALL BRASS, ZINC-PLATED MUSIC WIRE OR STAINLESS STEEL SPRING AND A RUBBER SEAL, OFFERED IN SILICONE OR FLUOROCARBON

**MAX. TEMPERATURE:** 200°F

Part Number	Inlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (oz)
		Height	Hex		
SF50	1/2 NPT	3.36	7/8	50-250	6.0



### MODEL "SN"

MODEL "SN" ASME SAFETY VALVES ARE DESIGNED FOR HIGH TEMPERATURE APPLICATIONS WHERE LARGE FLOW CAPACITIES ARE NEEDED. THE VALVE IS STAMPED WITH "UV" AND "NB" SYMBOLS. SET PRESSURE TOLERANCE +/-3%.

**CONSTRUCTION:** ALL BRASS, STAINLESS STEEL SPRING AND STAINLESS STEEL BALL SEATING ON BRASS SEAT

**MAX. TEMPERATURE:** 350°F

Part Number	Inlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (oz)
		Height	Wrench. Flat		
SN50	1/2 NPT	3.48	7/8	50-350	6.0



# VALVES & NOZZLES

## AIR COMPRESSORS > ASME-CODE SAFETY VALVES

### MODEL "SB"

MODEL "SB" ASME SAFETY VALVES IS A HIGH CAPACITY SAFETY VALVE. UNIQUE O-RING SEAL ENSURES VALVE IS BUBBLE-TIGHT TO WITHIN 10% OF SET PRESSURE. SET PRESSURE TOLERANCE IS +/-3%.

**CONSTRUCTION:** ALL BRASS CONSTRUCTION, STAINLESS STEEL SPRINGS AND THE O-RING SEAL AVAILABLE IN SILICONE OR FLUOROCARBON RUBBER

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (oz)
		Height	Wrench. Flat		
SB50	1/2 NPT	3.59	1-1/16	25-300	10.0
SB75	3/4 NPT	3.26	1-1/16	25-300	10.0



### MODEL "SW"

MODEL "SW" ASME SAFETY VALVE IS OUR HIGHEST CAPACITY SAFETY VALVE. THE UNIQUE O-RING SEAL ENSURES VALVE IS BUBBLE-TIGHT TO WITHIN 10% OF SET PRESSURE. THE VALVE IS STAMPED WITH "UV" AND "NB" SYMBOLS. SET PRESSURE TOLERANCE +/-3%.

**CONSTRUCTION:** ALL BRASS CONSTRUCTION, STAINLESS STEEL SPRINGS AND THE O-RING SEAL AVAILABLE IN SILICONE OR FLUOROCARBON RUBBER

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (oz)
		Height	Wrench. Flat		
SW10	1 NPT	3.59	1-1/16	25-300	1.75
SW12	1-1/4 NPT	3.59	1-1/16	25-300	2.00



### MODEL "SCB"

MODEL "SCB" ASME SAFETY VALVES ARE DESIGNED FOR APPLICATIONS WHERE A PIPED OR DIRECTED DISCHARGE IS REQUIRED. THE UNIQUE O-RING SEAL ENSURES VALVE IS BUBBLE-TIGHT TO WITHIN 10% OF SET PRESSURE. THE VALVE IS STAMPED WITH "UV" AND "NB" SYMBOLS. SET PRESSURE TOLERANCE IS +/-3%.

**CONSTRUCTION:** PRECISION MACHINED CAST BRASS BODY, BRASS AND STAINLESS STEEL SPRINGS AND THE O-RING SEAL AVAILABLE IN SILICONE OR FLUOROCARBON RUBBER

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Outlet Size (in)	Dimension (in)		Set Pressure (Range PSIG)	Weight (lbs)
			Height	Hex		
SCB5075	1/2 NPT	3/4 NPT	4.53	1-7/16	25-300	1-1/2
SCB5010	1/2 NPT	1 NPT	4.53	1-7/16	25-300	1-1/2
SCB7575	3/4 NPT	3/4 NPT	4.53	1-7/16	25-300	1-1/2
SCB7510	3/4 NPT	1 NPT	4.53	1-7/16	25-300	1-1/2





# VALVES & NOZZLES

## AIR COMPRESSORS > NON-CODE SAFETY VALVES

Any of our ASME Coded Safety Valves can be offered as a Non-coded Safety Valve with various options.

### MODEL "NK"

MODEL "NK" NON-CODE SAFETY VALVES ARE DESIGNED FOR APPLICATIONS WHEN AN END DISCHARGE FLOW CONFIGURATION IS REQUIRED. RESILIENT SEAL ENSURES VALVE IS BUBBLE-TIGHT TO WITHIN 10% OF SET PRESSURE. VALVE RESEATS AT APPROXIMATELY 65% OF SET PRESSURE. THE SET PRESSURE RANGE IS 25 PSI TO 250 PSI.

**CONSTRUCTION:** ALL BRASS, STAINLESS STEEL SPRING AND SILICONE RUBBER SEAL

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Dimension (in)		Weight (oz)
		Height	Hex	
NK25	1/4 NPT	1.00	5/8	1.5



### MODEL "NC"

MODEL "NC" NON-CODE SAFETY VALVES ARE FIELD ADJUSTABLE. KNURLED THUMBSCREW AND JAM NUT MAKE ADJUSTMENTS EASY AND REPEATABLE. VALVES CAN BE UNSET, OR FACTORY SET AND LOCKED WITH JAM NUT, OR FACTORY SET AND STAKED (TO DETER FIELD ADJUSTMENT). THE SET PRESSURE RANGE IS 25 PSI TO 200 PSI.

**CONSTRUCTION:** ALL BRASS, STAINLESS STEEL SPRING AND SILICONE RUBBER SEAL

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Dimension (in)		Weight (oz)
		Height	Hex	
NC25	1/4 NPT	1.63	9/16	1.5



# VALVES & NOZZLES

AIR COMPRESSORS > VACUUM RELIEF VALVES

## MODEL "VR25", "VR38", "VR75" & "VR10"

MODEL "VR" VACUUM RELIEF VALVES ARE USED IN SYSTEMS TO MAINTAIN A DESIRED VACUUM LEVEL. THESE VALVES ARE PROPORTIONAL RELIEF VALVES (NOT "POP" TYPE SAFETY VALVES). NOT PRESET AT THE FACTORY, EASY FIELD ADJUSTMENTS WITH KNURLED ADJUSTMENT SCREW AND LOCKED WITH JAM NUT.

**CONSTRUCTION:** ALL BRASS WITH STAINLESS STEEL SPRINGS. VR25 USES STAINLESS STEEL BALL AS POPPET; VR38 & VR75 USE NYLON POPPETS WITH NITRILE SEALS; VR10 USES BRASS POPPET WITH FLUOROCARBON SEAL

**MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Vacuum Range	Max. Recommended Vacuum Pump Size
VR25	1/4 NPT	0-27 in HG	1/4 HP
VR38	3/8 NPT	0-27 in HG	1 HP
VR75	3/4 NPT	0-27 in HG	3 HP
VR10	1 NPT	0-27 in HG	5 HP



# VALVES & NOZZLES

## AIR COMPRESSORS > PRESSURE RELIEF VALVES

### MODEL "CR25" - PRESSURE CONTROL VALVE

MODEL "CR25" PRESSURE CONTROL VALVE IS A VARIABLE-PRESSURE RELIEF VALVE, SPECIFICALLY DESIGNED TO BE INSTALLED INTO THE HEAD OF A SMALL (LESS THAN 2 HP), DIRECT-DRIVE, TANKLESS AIR COMPRESSORS. A MICROMETER-TYPE SCALE ALLOWS EASY AND ACCURATE ADJUSTMENT OF THE VALVE FROM 0 TO 100 PSI. THE VALVE CAN BE USED WHEREVER A LOW-FLOW, VARIABLE-PRESSURE RELIEF VALVE IS REQUIRED.

**CONSTRUCTION:** BRASS BODY AND INTERNAL COMPONENTS, STAINLESS STEEL POPPET WITH FLUOROCARBON O-RING AND NYLON KNOB

**MAX. FLOW:** 6 SCFM AT 100 PSI

**MAX. TEMPERATURE:** 250°F



### MODEL "PR25", "PR38" & "PR75" - PRESSURE RELIEF VALVE

MODEL "PR" PRESSURE RELIEF VALVES ARE USED IN SYSTEMS TO MAINTAIN A DESIRED PRESSURE LEVEL. THESE VALVES ARE PROPORTIONAL RELIEF VALVES (NOT "POP" TYPE SAFETY VALVES). NOT PRESET AT THE FACTORY, EASY FIELD-ADJUSTMENTS WITH KNURLED ADJUSTMENT SCREW AND LOCKED WITH JAM NUT.

**CONSTRUCTION:** ALL BRASS WITH STAINLESS STEEL SPRINGS. PR25 USES STAINLESS STEEL BALL AS POPPET; PR38 & PR75 USE NYLON POPPETS WITH NITRILE SEALS; VR10 USES BRASS POPPET WITH FLUOROCARBON SEAL

**MAX. TEMPERATURE:** 250°F



Part Number	Inlet Size (in)	Available Cracking Pressure	Flow at 5 PSI Past Crack
PR25	1/4 NPT	0-20 psi 20-60 psi 50-125 psi 100-200 psi	2 SCFM
PR38	3/8 NPT	0-20 psi	5 SCFM
PR75	3/4 NPT	0-20 psi	10 SCFM



# VALVES & NOZZLES

## AIR COMPRESSORS > CHECK VALVES - IN-LINE

### “B2” CHECK VALVES

THE “B2” CHECK VALVE DESIGN HAS BEEN SPECIFICALLY DEVELOPED FOR OEM USE, OFFERING OUTSTANDING PERFORMANCE. HIGH FLOWS ARE ENSURED WITH OVERSIZED DISCHARGE HOLES AND FINAL ASSEMBLY IS A SWAGING OPERATION, WHICH PROVIDES THE VALVE WITH A LONG LIFE, BUT DOES NOT ALLOW FOR DISASSEMBLY. THE “BARREL” LENGTH OF THE “B2” CHECK VALVE IS SHORTER THAN THE SUPER-CHEK LINE, SO THE OEM MUST ENSURE THAT ANY “SKIRT” ON THE TANK IS CLEAR OF THE VALVE DISCHARGE HOLES, OTHERWISE POTENTIALLY DAMAGING BACK-PRESSURE MAY BUILD UP ON THE COMPRESSOR DISCHARGE LINE AND COMPRESSOR HEAD.

**CONSTRUCTION:** BRASS BODY, STAINLESS STEEL SPRINGS AND GLASS-FILLED PTFE POPPET

**MAX. PRESSURE:** 450 PSI    **MAX. TEMPERATURE:** 400°F



Part Number	F.P.T. Inlet (in)		M.P.T. Outlet (in)	Dimensions (in)			Recommended Max Flow Rate	Weight (oz)	
				A	B	Hex			
P3850	3/8	x	1/2	2-1/4	1-3/8	7/8	20 SCFM	3.0	
P5060	1/2	x	1/2	2-1/2	1-3/8	1	20 SCFM	4.0	
P7575	3/4	x	3/4	2-3/4	1-3/4	1-3/16	30 SCFM	6.0	
Part Number	Tube Comp. Inlet (in)		M.P.T. Outlet (in)	Dimensions (in)			Recommended Max Flow Rate	Weight (oz)	
				A	B	Hex			
C3150	5/16	x	1/2	2-1/8	1-3/8	7/8	20 SCFM	3.0	
C3838	3/8	x	3/8	1-7/8	1-3/16	11/16	12 SCFM	1.5	
C3850	3/8	x	1/2	2-3/8	1-3/8	7/8	20 SCFM	3.5	
C5050	1/2	x	1/2	2-1/6	1-3/8	7/8	20 SCFM	3.5	
C6250	5/8	x	1/2	2-3/8	1-3/8	7/8	20 SCFM	3.5	
C7575	3/4	x	3/4	3	1-7/8	1-1/8	30 SCFM	8.0	
Part Number	F.P.T. Inlet (in)		M.P.T. Outlet (in)	Dimensions (in)			Recommended Max Rate	Flow	Weight (oz)
				A	B	Hex			
M5050	1/2	x	1/2	2-7/16	1-3/8	7/8	20 SCFM		3.5

### SUPER-CHEK CHECK VALVES

THE SUPER-CHEK DESIGN HAS BEEN PROVEN OVER THE LAST 15 YEARS TO BE THE STANDARD FOR AIR COMPRESSOR IN-TANK CHECK VALVES. VALVES MAY BE DISASSEMBLED FOR CLEANING OR REPAIR AND ARE 100% TESTED FOR BACKFLOW LEAKAGE PERFORMANCE.

**CONSTRUCTION:** ONE-PIECE BRASS BODY WITH STAINLESS STEEL SPRINGS AND GLASS-FILLED PTFE POPPETS WITH EIGHT (8) DISCHARGE HOLES FOR QUIET OPERATION

**MAX. PRESSURE:** 450 PSI    **MAX. TEMPERATURE:** 400°F



Part Number	Tube Comp. Inlet (in)		M.P.T. Outlet (in)	Dimensions (in)			Recommended Max Rate	Flow	Weight (oz)
				A	B	Hex			
C3850	3/8	x	1/2	2-7/8	1-7/8	7/8	20 SCFM		4.2
C505	1/2	x	1/2	2-7/8	1-7/8	7/8	20 SCFM		4.3
C7575	3/4	x	3/4	3-1/2	2-3/8	1-1/8	30 SCFM		7.4
C7510	3/4	x	1	3-3/4	2-5/8	1-5/16	60 SCFM		11.5
Part Number	F.P.T. Inlet (in)		M.P.T. Outlet (in)	Dimensions (in)			Recommended Max Flow Rate		Weight (oz)
				A	B	Hex			
P3838	3/8	x	3/8	2	1-1/8	13/16	12 SCFM		3.0
P3850	3/8	x	1/2	2-3/4	1-7/8	7/8	20 SCFM		3.8
P5050	1/2	x	1/2	3	1-7/8	1	20 SCFM		5.5
P5075	1/2	x	3/4	3-1/2	2-1/2	1-1/8	30 SCFM		6.5
P7575	3/4	x	3/4	3-1/4	2-1/4	1-3/16	30 SCFM		7.2
P7510	3/4	x	1	3-1/2	2-1/2	1-5/16	60 SCFM		11.4
P7515	3/4	x	1-1/2	4-1/2	3-1/2	2-1/4	150 SCFM		24.0
P1010	1	x	1	3-7/8	2-5/8	1-1/2	60 SCFM		12.5
P1212	1-1/4	x	1-1/4	4-7/16	3-1/4	1-7/8	130 SCFM		17.5
P1515	1-1/2	x	1-1/2	4-1/2	3-1/2	2-1/4	150 SCFM		30.0

# VALVES & NOZZLES

## AIR COMPRESSORS > CHECK VALVES - IN-LINE

### BAR STOCK POPPET-TYPE ("IC") CHECK VALVES

OUR "IC" IN-LINE CHECK VALVES WERE CREATED AROUND OUR SUPER-CHEK DESIGN. AN "IC" VALVE CAN BE INSTALLED IN THE DISCHARGE LINE OF THE COMPRESSOR, IN THOSE INSTANCES WHERE AN IN-TANK VALVE WILL NOT FIT. THESE VALVES COME STANDARD WITH A 1/8" NPT UN-LOADER PORT.

**CONSTRUCTION:** BRASS BODY, GLASS-FILLED PTFE POPPETS AND STAINLESS STEEL SPRINGS

**MAX. PRESSURE:** 450 PSI    **MAX. TEMPERATURE:** 400°F

Part Number	Inlet Size (in)	Outlet Size (in)	Dimensions (in)		Recommended Max Flow Rate	Weight (oz)
			Length	Hex		
IC38	3/8 FPT	3/8 FPT	2.70	13/16	12 SCFM	5.0
IC50	1/2 FPT	1/8 FPT	2.82	1	20 SCFM	7.0
IC75	3/4 FPT	3/4 FPT	3.54	1-3/16	30 SCFM	13.0



### CAST BRASS ("CB") CHECK VALVES

THE CAST BRASS CHECK VALVES HAVE BEEN SPECIFICALLY DESIGNED FOR INSTALLATION INTO AIR COMPRESSOR DISCHARGE LINES. THESE VALVES COME STANDARD WITH A PLUGGED 1/8" NPT UNLOADER PORT.

**CONSTRUCTION:** EXTRA-HEAVY DUTY BRASS BODY, GLASS-FILLED PTFE POPPETS AND STAINLESS STEEL SPRINGS

**MAX. PRESSURE:** 250 PSI    **MAX. TEMPERATURE:** 450°F

Part Number	Inlet Size (in)	Dimensions (in)			Recommended Max Flow Rate	Weight
		A	B	Width		
CB13	1/8 NPT	1-3/4	1-5/8	27/32	12 SCFM	6.0 oz
CB25	1/4 NPT	1-3/4	1-5/8	27/32	12 SCFM	6.0 oz
CB38	3/8 NPT	2-3/16	1-7/8	1-7/8	22 SCFM	9.0 oz
CB50	1/2 NPT	2-1/2	2-1/8	2-1/8	38 SCFM	13.0 oz
CB75	3/4 NPT	2-7/8	2-1/2	2-1/2	60 SCFM	1-1/4 lbs
CB10	1 NPT	3-1/2	2-7/8	2-7/8	115 SCFM	1-3/4 lbs
CB12	1-1/4 NPT	3-7/8	3-1/8	2-1/8	160 SCFM	2-1/2 lbs
CB15	1-1/2 NPT	4-1/8	3-7/16	2-1/4	160 SCFM	2-3/4 lbs
CB20	2 NPT	4-1/2	3-7/8	2-3/4	220 SCFM	3-3/4 lbs



### PISTON-TYPE CHECK VALVES

OUR PISTON-TYPE CHECK VALVES OFFER BUBBLE-TIGHT SEALING CAPABILITIES AT LOW PRESSURE DROPS. USES INCLUDE A TANK CHECK VALVE FOR SMALL COMPRESSORS OR AS COMPONENTS IN PNEUMATIC CIRCUITS.

**CONSTRUCTION:** BRASS BODY AND PISTONS, FLUOROCARBON O-RINGS AND STAINLESS STEEL SPRINGS

**MAX. PRESSURE:** 250 PSI    **MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Outlet Size (in)	Dimensions (in)		Weight (oz)
			Length	Hex	
M25M25	1/4 MPT	1/4 MPT	1.38	9/16	1.0
P25M25	1/4 FPT	1/4 MPT	1.54	11/16	1.0
P12S31	1/8 FPT	9/16-18 UNF	2.17	5/8	2.4
J38S31	-6 JIC	9/16-18 UNF	1.89	9/16	1.8
M25J25	1/4 MPT	-4 JIC	2.06	5/8	2.1



# VALVES & NOZZLES

AIR COMPRESSORS > CHECK VALVES - IN-LINE

## BALL CHECK VALVES

OUR BALL-TYPE CHECK VALVES OFFER BUBBLE-TIGHT SEALING CAPABILITIES AT LOW PRESSURE DROPS. USES INCLUDE A TANK CHECK VALVES FOR SMALL COMPRESSORS, OR AS COMPONENTS IN PNEUMATIC CIRCUITS.

**CONSTRUCTION:** VALVE BODIES ARE BRASS WITH FLUOROCARBON O-RINGS, STAINLESS STEEL BALLS, STAINLESS STEEL SPRINGS AND ACETAL COPOLYMER "CAGES"

**MAX. PRESSURE:** 250 PSI    **MAX. TEMPERATURE:** 250°F

**OPTIONS:** MODEL "C5038" AVAILABLE WITH ADAPTER FOR 1/4" OD COPPER TUBING COMPRESSION FITTING FOR COMPRESSOR UNLOADER APPLICATION

Part Number	Inlet Size (in)	Outlet Size (in)	Dimensions (in)		Recommended Max Flow Rate	Weight (oz)
			Length	Hex		
M2525	1/4 MPT	1/4 MPT	1.30	9/16	9 SCFM	1.0
P2525	1/4 FPT	1/4 MPT	1.43	11/16	9 SCFM	1.5
C5038	1/2 MPT	3/8 MPT	1.40	11/16	9 SCFM	1.5



## "ECONOSTYLE" CHECK VALVE

THE PATENTED "ECONO CHECK" CHECK VALVE IS DESIGNED FOR NON-OIL LUBRICATED COMPRESSORS FOR 5 HP AND UNDER. THE COMPACT VALVE DESIGN HAS PROVEN TO BE A ROBUST ECONOMICAL CHECK VALVE THAT HAS SOLD OVER 8 MILLION UNITS IN THE PAST 10 YEARS.

**CONSTRUCTION:** ONE-PIECE BRASS OR PLATED STEEL BODY WITH A STAINLESS STEEL SPRING, FLUOROCARBON POPPET AND HIGH TEMPERATURE ENGINEERED THERMOPLASTIC INTERNAL GUIDES

**MAX. PRESSURE:** 200 PSI    **MAX. TEMPERATURE:** 400°F





# VALVES & NOZZLES

## AIR COMPRESSORS > PILOT VALVE

### MODEL "P25"

THE P25 PILOT VALVE IS AN INDUSTRY STANDARD. VALVE CUT-IN/CUT-OUT PRESSURES ARE FACTORY SET PER CUSTOMER SPECIFICATIONS. IF SPECIFICATIONS ARE NOT PROVIDED, THE VALVE IS SET AT STANDARD SETTING OF 95-115 PSI, OR VALVE CAN BE FIELD ADJUSTABLE. VALVE INCLUDES MOUNTING BOSS, TAPPED WITH A 3/8"-16 UNC THREAD, A 1/4" NPT INLET AND A 1/8" NPT OUTLET; COMES STANDARD WITH UNLOADING SLEEVE FOR GAS ENGINE WARM UP. MAXIMUM CUT-OUT PRESSURE IS 250 PSI.

**CONSTRUCTION:** PRECISION-MACHINED FORGED BRASS BODY, BRASS ADJUSTMENTS SCREWS AND STAINLESS STEEL BALL AND SPRING

**MAX. TEMPERATURE:** 400°F

**OPTIONS:** A TOGGLE FOR ONE-HAND UNLOADING, A LOCKOUT THUMBSCREW FOR DUAL CONTROL SYSTEMS, AND A 1/4" NPT NIPPLE INSTALLED INTO THE INLET PORT



### MODEL "P25V"

THE "P25V" VENTING PILOT VALVE HAS ALL OF THE FEATURES OF THE P25 PILOT VALVE, PLUS A VENT VALVE FOR UNLOADING COMPRESSOR DISCHARGE DURING COMPRESSOR CUT-OUT.

**CONSTRUCTION:** PRECISION-MACHINED FORGED BRASS BODY, BRASS ADJUSTMENTS SCREWS AND STAINLESS STEEL BALL AND SPRING

**MAX. TEMPERATURE:** 400°F

**OPTIONS:** A TOGGLE FOR ONE-HAND UNLOADING, A LOCKOUT THUMBSCREW FOR DUAL CONTROL SYSTEMS, AND A 1/4" NPT NIPPLE INSTALLED INTO THE INLET PORT



# VALVES & NOZZLES

## AIR COMPRESSORS > CONTINUOUS RUN VENT UNLOADERS

### MODEL "LGM20" – MARK II LOAD GENIE®

MODEL "LGM20" – MARK II LOAD GENIE® IS A SELF-CONTAINED UNLOADING VALVE WHICH CAN BE USED WHEREVER A CONTINUOUS RUN COMPRESSOR IS REQUIRED. THE COMPRESSOR MAY NEED TO RUN CONTINUOUSLY BECAUSE THE AIR DEMANDED IS CLOSE TO THE MAXIMUM OUTPUT OF THE COMPRESSOR, OR BECAUSE THE COMPRESSOR IS DRIVEN BY A GASOLINE OR DIESEL ENGINE.

MODEL "LGM20" IS A "VENT" UNLOADER, THEREFORE BUILT-IN HEAD UNLOADERS ARE NOT REQUIRED ON THE COMPRESSOR. THE VALVE CONTAINS ALL OF THE COMPONENTS REQUIRED: A PILOT VALVE, A VENT VALVE, AND A CHECK VALVE. THE END USER SIMPLY HAS TO INSTALL THE MODEL "LGM20" – MARK II LOAD GENIE® IN THE DISCHARGE LINE BETWEEN THE COMPRESSOR AND RECEIVER.

VALVE CUT-IN AND CUT-OUT PRESSURES ARE FACTORY SET PER CUSTOMER SPECIFICATIONS. IF SETTINGS ARE NOT SPECIFIED, THE VALVE IS SET AT THE STANDARD SETTING OF 115 PSI CUT-OUT AND 95 PSI CUT-IN. THE VALVE COMES EQUIPPED WITH A FIELD ADJUSTABLE SETTING.



**CONSTRUCTION:** FORGED BRASS BODY, BRASS AND ZINC-PLATED STEEL INTERNAL COMPONENTS, STAINLESS STEEL SPRINGS AND GLASS-FILLED PTFE POPPETS

**MIN./MAX. CUT-OUT PRESSURE:** 60 PSI/250 PSI **MAX. TEMPERATURE:** 250°F

**OPTIONS:** A 1/8" NPT TAPPED PORT FOR THROTTLE CONTROL OF A GAS ENGINE, A LOCK-OUT CLIP FOR "DUAL CONTROL" APPLICATIONS, A SPECIAL 1/8" NPT TAPPED PORT FOR PRESSURE SWITCH UNLOADER VALVE, A VENT PORT MUFFLER AND A TOGGLE UNLOADING LEVER FOR ONE-HAND WARM UP CONTROL

Part Number	Inlet & Outlet Size (in)	Vent Outlet Size (in)	Dimensions (in)				Recommended Max Flow Rate	Weight (lbs)
			A	B	C	D		
LGM20	1/2 FPT	3/8 FPT	3.57	1.43	0.81	4.31	20 SCFM	1.75
LGM125	1-1/4 FPT	1 FPT	4.58	3.04	1.58	7.56	125 SCFM	6.25

# VALVES & NOZZLES

## AIR COMPRESSORS > CONTINUOUS RUN VENT UNLOADERS

### MODEL "LGM30" – MARK III LOAD GENIE®

MODEL "LGM30" – MARK III LOAD GENIE® CONTINUES THE TRADITION OF THE ORIGINAL "LGM20" – MARK II LOAD GENIE®. OVER 20 YEARS OF EXPERIENCE WAS INCORPORATED INTO THE DESIGN AND DEVELOPMENT OF THIS CONTINUOUS RUN CONTROL.

MODEL "LGM30" IS A "VENT" UNLOADER, THEREFORE BUILT-IN HEAD UNLOADERS ARE NOT REQUIRED ON THE COMPRESSOR. THIS VALVE COMBINES ALL OF THE COMPONENTS REQUIRED FOR A CONTINUOUS RUN COMPRESSOR APPLICATION: A PILOT VALVE, A VENT VALVE AND A CHECK VALVE.

THE COMPACT SIZE AND STRAIGHT-THROUGH FLOW DESIGN OF MODEL "LGM30" – MARK III LOAD GENIE® MAKES INSTALLATION SIMPLE. INSTALL THE VALVE INTO THE AIR RECEIVER AND ATTACH THE COMPRESSOR DISCHARGE LINE TO THE VALVE INLET. THIS VALVE IS SUITABLE FOR COMPRESSORS OF UP TO 30 SCFM DELIVERY.

VALVE CUT-IN AND CUT-OUT PRESSURES ARE FACTORY SET PER CUSTOMER SPECIFICATIONS. IF SETTINGS ARE NOT SPECIFIED, THE VALVE IS SET AT THE STANDARD SETTING OF 115 PSI CUT-OUT AND 95 PSI CUT-IN. THE VALVE COMES EQUIPPED WITH A FIELD ADJUSTABLE SETTING.

**CONSTRUCTION:** FORGED BRASS BODY, ZINC-PLATED STEEL INTERNAL COMPONENTS, FLUOROCARBON PISTON RING, STAINLESS STEEL SPRINTS AND A GLASS-FILLED PTFE CHECK VALVE POPPET

**MIN. CUT-OUT PRESSURE:** 250 PSI

**OPTIONS:** A 1/8" NPT TAPPED PORT FOR THROTTLE CONTROL OF A GAS ENGINE, A LOCK-OUT CLIP FOR "DUAL CONTROL" APPLICATIONS, A SPECIAL 1/8" NPT TAPPED PORT FOR PRESSURE SWITCH UN-LOADER VALVE, A VENT PORT MUFFLER AND A TOGGLE UNLOADING LEVER FOR ONE-HAND WARM UP CONTROL



Part Number	Inlet Size (in)	Outlet Size (in)	Vent Outlet (in)	Dimensions (in)				Recommended Max Flow Rate	Weight (lbs)
				A	B	C	D		
LGM30	1/2 Comp. 5/8 Comp. 3/4 Comp. 1/2 INT. NPT 1/2 Ext. NPT	1/2 INT. NPT 1/2 INT. NPT	3/8 FPT	3.28	1.65	2.1	2.21	30 SCFM	1.1



# VALVES & NOZZLES

## AIR COMPRESSORS > CONTINUOUS RUN VENT UNLOADERS

### MODEL "LGM40" – MARK IV LOAD GENIE®

MODEL "LGM40" – MARK IV LOAD GENIE® CONTINUES IN THE TRADITION OF THE ORIGINAL "LGM20" – MARK II LOAD GENIE® & "LGM30" – MARK III LOAD GENIE®.

MODEL "LGM40" IS A "VENT" UNLOADER, THEREFORE BUILT-IN HEAD UNLOADERS ARE NOT REQUIRED ON THE COMPRESSOR. THIS VALVE COMBINES ALL OF THE COMPONENTS REQUIRED FOR A CONTINUOUS RUN COMPRESSOR APPLICATION: A PILOT VALVE, A VENT VALVE AND A CHECK VALVE.

THE COMPACT SIZE AND THE COMBINATION OF STRAIGHT-THROUGH 90° FLOW DESIGN OF THE "LGM40" MAKES INSTALLATION SIMPLE. INSTALL THE VALVE INTO THE AIR RECEIVER AND ATTACH THE COMPRESSOR DISCHARGE LINE TO THE VALVE INLET. THIS VALVE IS SUITABLE FOR COMPRESSORS OF UP TO 30 SCFM DELIVERY.



**CONSTRUCTION:** FORGED BRASS BODY, ZINC-PLATED STEEL INTERNAL COMPONENTS, FLUOROCARBON PISTON RING, STAINLESS STEEL SPRINGS, AND A GLASS-FILLED PTFE CHECK VALVE POPPET

**MIN./MAX. CUT-OUT PRESSURE:** 60 PSI/250 PSI

**OPTIONS:** A 1/8" NPT TAPPED PORT FOR THROTTLE CONTROL OF A GAS ENGINE, A LOCK-OUT CLIP FOR "DUAL CONTROL" APPLICATIONS, A SPECIAL 1/8" NPT TAPPED PORT FOR PRESSURE SWITCH UN-LOADER VALVE, A VENT PORT MUFFLER AND A TOGGLE UNLOADING LEVER FOR ONE-HAND WARM UP CONTROL

Part Number	Inlet Size (in)	Outlet Size (in)	Vent Outlet (in)	Dimensions (in)				Recommended Flow Rate	Weight (lbs)
				A	B	C	D		
LGM40	1/2 Comp. 5/8 Comp. 3/4 Comp. 1/2 INT. NPT 1/2 Ext. NPT	1/2 INT. NPT 1/2 INT. NPT	3/8 FPT	need info	need info	need info	need info	40 SCFM	1.46

# VALVES & NOZZLES

## AIR COMPRESSORS > UNLOADING CHECK VALVES

### MODEL "CA" – LOAD GENIE® FOR TUBE COMPRESSION FITTING

### MODEL "PA" – LOAD GENIE® FOR PIPE

A COMPRESSOR RUNNING IN A "START/STOP" MODE OPERATES MORE EFFICIENTLY IF THE PRESSURE TRAPPED IN THE COMPRESSOR HEAD AND DISCHARGE LINE IS RELEASED AFTER EACH PUMP-UP CYCLE. THIS ALLOWS FOR A SMOOTHER START AND THE USE OF A MOTOR WITH LOWER STARTING TORQUE.

THE MOST CONVENIENT WAY TO RELEASE THIS TRAPPED PRESSURE IS TO USE THE LOAD GENIE® COMBINATION CHECK AND UNLOADER VALVE. INSTALL THE VALVE IN THE COMPRESSOR DISCHARGE LINE AND THE LOAD GENIE® WILL DO THE REST.

THE LOAD GENIE® SENSES AIR FLOW WHEN THE COMPRESSOR IS RUNNING AND CLOSES AN UNLOADING ORIFICE PORT. WHEN AIRFLOW STOPS (EX. WHEN THE PRESSURE SWITCH TURNS OFF THE MOTOR), THE LOAD GENIE® OPENS THE UNLOADING ORIFICE TO RELEASE HEAD PRESSURE, AND A BUILT-IN CHECK VALVE KEEPS RECEIVER AIR FROM LEAKING BACK INTO THE DISCHARGE LINE AND COMPRESSOR HEAD.

ALTERNATIVE METHODS RELY ON EXTERNAL UN-LOADING VALVES MOUNTED ON THE PRESSURE SWITCH OR COMPRESSOR. THE EXTERNAL UN-LOADING VALVES ARE CONNECTED WITH THE APPROPRIATE TUBING AND FITTINGS TO THE COMPRESSOR DISCHARGE LINE OR COMPRESSOR HEAD. A TANK CHECK VALVE IS ALSO REQUIRED. THE SYSTEM, THEN, CONSISTS OF THE UNLOADING VALVE, CONNECTING THE TUBING WITH THE APPROPRIATE FITTINGS, THE TANK CHECK VALVE AND THE LABOR FOR INSTALLATION.



Part Number	Inlet Size (in)	Outlet Size (in)	Dimensions (in)		Minimum & Maximum Flow (SCFM)	Weight (oz)
			Length	Hex		
CA-6	3/8 OD Tube Compress.	1/4 MPT	1.56	3/4	1 - 6	2.0
PA-6	1/4 FPT	1/4 MPT	1.75	3/4	1 - 6	2.5
CA-12	1/2 OD Tube Compress.	3/8 MPT	1.69	13/16	3 - 12	2.5
PA-12	3/8 FPT	3/8 MPT	1.81	13/16	3 - 12	3.0
CA-24	3/4 OD Tube Compress.	1/2 MPT	2.13	1	8 - 24	5.0
PA-24	1/2 FPT	1/2 MPT	2.25	1	8 - 24	6.0
CA-48	3/4 OD Tube Compress.	3/4 MPT	2.19	1-3/16	15 - 48	6.0
PA-48	3/4 FPT	3/4 MPT	2.38	1-3/16	15 - 48	8.0

# VALVES & NOZZLES

## AIR COMPRESSORS > THROTTLE CONTROLS

### "TC12" THROTTLE CONTROL

"TC12" THROTTLE CONTROLS ARE USED WITH GAS ENGINE-DRIVEN COMPRESSORS TO REDUCE THE ENGINE SPEED TO IDLE WHEN THE CONTINUOUS RUN CONTROL (SUCH AS MODEL "LGM20", "LGM30" AND "LGM40" VENT UNLOADERS OR "P25" PILOT VALVE) HAS REACHED ITS "CUT-OUT" SETTING. THIS SAVES FUEL, REDUCES NOISE AS WELL AS REDUCES ENGINE AND COMPRESSOR WEAR.

THE 1/8" NPT INLET OF THE "TC12" IS CONNECTED TO THE THROTTLE CONTROL PORT OF THE VENT UN-LOADER OR CONNECTED INTO A "TEE" OF THE HEAD UNLOADER LINE OF PILOT VALVE INSTALLATIONS. THE CABLE END IS ATTACHED TO THE APPROPRIATE THROTTLE LINKAGE ON THE ENGINE AND THE CABLE HOUSING IS APPROPRIATELY ANCHORED USING THE SUPPLIED CABLE CLAMPS.

DURING OPERATION, THE VENT UNLOADER OR PILOT VALVE SENDS A PRESSURE SIGNAL TO THE "TC12" AT THE CUT-OUT SETTING, CAUSING THE "TC12" PISTON TO EXTEND THE CONTROL CABLE WHICH PUSHES THE THROTTLE LEVER, FORCING THE ENGINE TO IDLE DOWN. AT THE CUT-IN SETTING, THE PRESSURE SIGNAL GOING TO THE "TC12" IS VENTED, ALLOWING THE SPRING TO RETURN THE PISTON, CABLE AND THROTTLE LEVER TO THE ORIGINAL, FULL SPEED, POSITION.

**CONSTRUCTION:** BRASS BODY AND PISTON, NITRILE O-RING, ZINC-PLATED STEEL SPRING AND RETAINING RING, VINYL COVERED, STEEL ARMORED HOUSING WITH STAINLESS STEEL CABLE

**MIN./MAX. PRESSURE:** 60 PSI/250 PSI **MAX. TEMPERATURE:** 250°F

**SPECIAL ORDERING INSTRUCTIONS:** SPECIFY DESIRED LENGTH  
[6" INCREMENTS]



### "TC12" THROTTLE CONTROL - LARGE

THIS LARGER VERSION OF THE "TC12" THROTTLE CONTROL ABOVE FOR USE WITH ENGINES ABOVE 8 HP.





# VALVES & NOZZLES

## AIR COMPRESSORS > THROTTLE CONTROLS

### "TC63" PNEUMATIC THROTTLE CONTROL VALVE

THE "TC63" PNEUMATIC THROTTLE CONTROL VALVE IS USED WITH GAS ENGINE-DRIVEN COMPRESSORS TO REDUCE ENGINE SPEED TO IDLE WHEN THE CONTINUOUS RUN CONTROL (SUCH AS MODELS "LGM20", "LGM30" & "LGM40" VENT UNLOADERS OR MODEL "P25" PILOT VALVE) HAS REACHED ITS "CUT-OUT" SETTING. THIS SAVES FUEL AND REDUCES ENGINE AND COMPRESSOR WEAR.

THE "TC63" IS CONNECTED TO THE THROTTLE CONTROL PORT OF THE VENT UNLOADER VIA AN AIR LINE. THE AIR LINE CAN ALSO BE CONNECTED TO A "TEE" OF THE HEAD UNLOADER LINE FOR PILOT VALVE INSTALLATION. THE LINKAGE IS ATTACHED TO THE THROTTLE LEVER ON THE ENGINE.

DURING OPERATION, THE VENT UNLOADER PILOT VALVE SENDS A PRESSURE SIGNAL TO THE PNEUMATIC THROTTLE CONTROL PISTON TO EXTEND, PUSHING THE THROTTLE LEVER ON THE ENGINE TO ITS IDLE POSITION. AT THE CUT-IN SETTING, THE PRESSURE SIGNAL THAT IS APPLIED TO THE PNEUMATIC THROTTLE CONTROL IS VENTED BY THE VENT UNLOADER OR PILOT VALVE, ALLOWING THE SPRING TO RETURN TO THE PISTON AND ENGINE THROTTLE LEVER TO THE ORIGINAL, FULL SPEED, POSITION.

THE "TC63" PNEUMATIC THROTTLE CONTROL VALVE IS AVAILABLE IN 5/8" AND THE OPERATIONAL 5/16".

**CONSTRUCTION:** BRASS BODY, WASHER, PISTON, JAM NUTS, STEEL BRACKET AND MUSIC WIRE LINKAGE AND ZINC PLATED SCREW

**MAX. TEMPERATURE:** 250°F

**SPECIAL ORDERING INSTRUCTIONS:** SPECIFY STROKE LENGTH WHEN ORDERING. IF STROKE LENGTH IS NOT SPECIFIED, A 5/8" VALVE WILL BE SHIPPED



# VALVES & NOZZLES

AIR COMPRESSORS > MISCELLANEOUS VALVES

## MODEL "TV12" TANK VALVE

MODEL "TV12" TANK VALVE IS USED WHEN THE PROCESS OF INFLATING A TANK WITH A STANDARD AIR CHUCK IS REQUIRED. THE INLET IS 1/8" NPT.

**CONSTRUCTION:** BRASS BODY, NYLON CAP AND STANDARD TIRE CORE VALVE



## MODEL "BV12" BREATHER VENT VALVE

MODEL "BV12" BREATHER VENT VALVE IS USED WHEN A ONE-WAY BREATHER VENT IS REQUIRED. THE VALVE OPENS AT A MAXIMUM OF 12" WATER COLUMN AND RESEALS TIGHTLY WHEN PRESSURE IS RELEASED. FLOW PASSAGE IS EQUIVALENT TO 7/32" DIAMETER HOLE (1/8" NPT).

**CONSTRUCTION:** BRASS BODY AND CAP, FLUOROCARBON RUBBER DISC AND STAINLESS STEEL SPRING



# VALVES & NOZZLES

## AIR COMPRESSORS > MISCELLANEOUS VALVES

### MODELS "CS12" & "CS25" COLD START VALVE

MODELS "CS12" & "CS25" COLD START VALVES BLEED AIR FROM THE COMPRESSOR HEAD DURING THE FIRST FEW PUMP REVOLUTIONS, REDUCING MOTOR STARTING TORQUE REQUIREMENTS. THESE VALVES ARE ESPECIALLY HELPFUL ON OIL-LUBED PUMPS THAT MAY BE SUBJECT TO LOW TEMPERATURES AND LOW STARTING VOLTAGES, SUCH AS A CONTRACTOR UNIT THAT MAY SIT OUTSIDE OVERNIGHT AND IS CONNECTED TO A LONG EXTENSION CORD.

THE "CS12" & "CS25" VALVES ARE INSTALLED INTO ANY CONVENIENT PORT UPSTREAM OF THE TANK CHECK VALVE. TYPICAL INSTALLATIONS ARE INTO A 1/8" NPT PORT IN THE CHECK VALVE (CD IN-TANK CHECK VALVES ARE AVAILABLE WITH THE CS12 INSTALLED AS AN OPTION), INTO A PORT TAPPED IN THE HEAD OF THE PUMP OR INTO A "TEE" IN THE DISCHARGE LINE. WHEN THE DISCHARGE LINE IS AT ZERO PRESSURE, THE CS VALVE IS OPEN. AS THE PUMP STARTS, AIR FLOWS OUT OF THE CS VALVE INTO THE ATMOSPHERE; AS THE PUMP SPEED AND DISCHARGE PRESSURE INCREASE, THE VALVE SNAPS SHUT AND STAYS CLOSED UNTIL THE END OF THE PUMP-UP CYCLE. WHEN THE HEAD IS UNLOADED (A PRESSURE SWITCH UN-LOADER OR SIMILAR DEVICE IS REQUIRED) THE VALVE RE-OPENS AND IS READY FOR THE NEXT START UP.



**CONSTRUCTION:** BRASS BODY AND PISTON, STAINLESS STEEL SPRING AND FLUOROCARBON O-RING

Part Number	Inlet Size (in)	Dimension (in)		Closing Pressure	Closing Flow	Compressor Size Range
		Length	Hex			
CS12	1/8 NPT	0.63	7/16	25 psi	1.15 SCFM	1/2 - 2 HP
CS25	1/4 NPT	0.77	9/16	25 psi	2.5 SCFM	2 - 5 HP

### MODEL "ACM" CARRY TANK MANIFOLDS

MODEL "ACM" CARRY TANK MANIFOLD FEATURE A BUILT-IN SHUTOFF VALVE AND A NON-CODE SAFETY VALVE SET TO CUSTOMER SPECIFICATIONS. A PRESSURE SWITCH MOUNT AND TANK PRESSURE GAUGE PORT ALLOW ALL CONTROL AND OUTLET FUNCTIONS TO BE CONNECTED TO ON 1/2" NPT TANK PORT. FLOW CAPACITY OF OUTLET VALVE AND SAFETY VALVE MAKE THIS MANIFOLD SUITABLE FOR COMPRESSORS OF 3 HP OR SMALLER.

**CONSTRUCTION:** SOLID BRASS BODY AND COMPONENTS, ZINC-PLATED OR STAINLESS STEEL SPRINGS, NITRILE O-RINGS AND SILICON RUBY SAFETY VALVE SEALS



Part Number	Inlet Size - Male (in)	Outlet Size - Female (in)	Gauge Size - Female (in)	Dimension (in)		Safety Valve	Weight (oz)
				O.A.L.	Hex		
ACM	1/2 NPT	1/4 NPT	1/4 NPT	2.50	7/8	25 - 250 psi	6.0

# VALVES & NOZZLES

AIR COMPRESSORS > MISCELLANEOUS VALVES

## MODEL "CTM" AIR MANIFOLD

MODEL "CTM" IS USED WHEN ASSEMBLING AIR COMPRESSOR SYSTEMS AND PORTABLE AIR TANKS. THE AIR MANIFOLD DESIGN INCORPORATES A TANK FILLER VALVE INTO THE BUILT-IN SHUTOFF VALVE. THE FILLER VALVE MATES TO A TYPICAL TIRE CHUCK FOR EASY TANK PRESSURIZATION. THE INTEGRAL NON-CODE SAFETY VALVE IS FACTORY PRE-SET AT 150 PSI. INCLUDED WITH THE AIR MANIFOLDS IS A TANK PRESSURE GAUGE.

**CONSTRUCTION:** SOLID BRASS BODY AND COMPONENTS, ZINC-PLATED OR STAINLESS STEEL SPRINGS, NITRILE O-RINGS AND SILICON SAFETY VALVE SEALS



Part Number	Inlet Size - Male (in)	Outlet Size - Female (in)	Gauge Size - Female (in)	Dimension (in)		Safety Valve	Weight (oz)
				O.A.L.	Hex		
CTM	1/2 NPT	1/4 NPT	1/4 NPT	1.84	7/8	150 psi	4.5



# VALVES & NOZZLES

## AIR COMPRESSORS > ACCESSORIES

### “DP25” DRAIN VALVES

“DP25” PULL CORD DRAIN VALVES ARE DESIGNED FOR SMALL TANK APPLICATIONS WHERE THE DRAIN VALVE IS NOT EASILY ACCESSIBLE. THE CABLE ALLOWS FOR EASY ACTUATION OF THE VALVE BY MANUALLY PULLING ON THE CABLE.

**CONSTRUCTION:** BRASS BODY, STEM AND WASHER, NITRILE O-RING, VINYL COVERED STEEL CABLE

**MAX. PRESSURE:** 200 PSI **MAX. TEMPERATURE:** 200°F

Part Number	Inlet Size (in)	Dimension (in)			Weight (oz)
		Height	Hex	Throat	
DP25	1/4 NPT	1.25	9/16	0.20	1.0



### “DU25” DRAIN VALVES

“DU25” THUMB SCREW DRAIN VALVES ARE DESIGNED FOR BUBBLE TIGHT SEALING FOR SMALL AIR COMPRESSOR TANKS (AVAILABLE WITH 1/4” NPT THREADED CONNECTION).

**CONSTRUCTION:** BRASS BODY AND STEM, FLUOROCARBON O-RING

**MAX. PRESSURE:** 200 PSI **MAX. TEMPERATURE:** 250°F

Part Number	Inlet Size (in)	Dimension (in)				Weight (oz)
		Height	Width	Hex	Throat	
DI25	1/4 NPT	1.00	1.38	9/15	0.25	1.0



### MODEL “M20053” MUFFLER

MODEL “M20053” MUFFLER IS AVAILABLE AS AN OPTION FOR MODEL “LGM30” UNLOADER VALVE, BUT CAN ALSO BE USED FOR APPLICATIONS THAT REQUIRE A SILENCER WITH HIGH FLOW CAPABILITIES. THE “M20053” HAS A 3/8” NPT INLET AND IS 1-1/8” LONG.

**CONSTRUCTION:** BRASS BODY WITH ALUMINUM DIFFUSER SCREEN



# VALVES & NOZZLES

## PRESSURE WASHERS

### THERMAL RELIEVE VALVES

MODEL "TRV" THERMAL RELIEVE VALVE IS TYPICALLY INSTALLED INTO A PRESSURE WASHER SYSTEM WHEN A MAXIMUM SPECIFIC WATER TEMPERATURE IS DESIRED. THE "TRV" REMAINS SEALED AT LOW TEMPERATURE LEVELS, BUT AS THE TEMPERATURE REACHES 140° F, THE VALVE BEGINS TO OPEN. THE VALVE DISCHARGES WATER FROM THE SYSTEM TO ATMOSPHERE, AND THUS MAINTAINS A DESIRED MAXIMUM TEMPERATURE. THE VALVES CAN BE ORDERED WITH A DIRECTIONAL PLASTIC CAP. 1/4" NPT (ALUMINUM), 3/8" & 1/2" NPT (BRASS).



### NOZZLES

MODEL "PWN" PRESSURE WASHER NOZZLES COME IN A WIDE VARIETY FOR ALMOST ANY PRESSURE WASHER APPLICATION. OUR NOZZLES RANGE FROM 0 TO 65 DEGREES AND 2 TO 10 GPM. MODEL "PWN" IS MADE TO WITHSTAND 4000 PSI. NOZZLES ARE AVAILABLE IN BRASS, STAINLESS STEEL OR PLASTIC WITH A 1/4" QUICK DISCONNECTION OR A 1/4" MNPT.



### LANCES

MODEL "PLQ" PRESSURE WASHER LANCES ARE DESIGNED FOR USE IN HIGH PRESSURE WASHER SYSTEMS. LANCES ARE AVAILABLE IN A VARIETY OF LENGTHS FROM 12" TO 36". ALL LANCES ARE MADE TO WITHSTAND 4,000 PSI.



# VALVES & NOZZLES

## PRESSURE WASHERS

### MULTI-TIP NOZZLES

MODEL "MTN" MULTI-TIP NOZZLES COMBINE FOUR (4) OF OUR HIGH QUALITY NOZZLES INTO ONE (1) EASY TO USE NOZZLE ASSEMBLY. OUR MULTI-TIP NOZZLES COME WITH EITHER 1/4" QUICK CONNECT INLETS OR 1/4" FNPT.



### GUNS

MODEL "PG" PRESSURE WASHER GUNS COME IN A VARIETY OF LENGTHS, COLORS, TRIGGER STYLES, AND INLET SIZES. THE PRESSURE RANGE IS FROM 3,000 PSI TO 5,100 PSI.





# VALVES & NOZZLES

## HIGH PRESSURE CYLINDER VALVES

### HIGH PRESSURE CYLINDER VALVES

A VARIETY OF HIGH PRESSURE CYLINDER VALVES USED FOR SPECIALTY CYLINDER APPLICATIONS ARE AVAILABLE. STANDARD C10 VALVES ARE AVAILABLE, AS WELL AS CUSTOM DESIGNS FOR ALMOST ANY APPLICATION. DESIGNS ARE AVAILABLE IN BRASS OR ALUMINUM, DEPENDING ON THE GAS COMPOSITION AND PRESSURE. FEATURES INCLUDE THERMAL AND PRESSURE RELIEF DEVICES BUILT INTO THE VALVE.

**CONSTRUCTION:** BRASS (ELECTROLYSIS NICKEL-PLATED), ALUMINUM, FLUOROCARBON SEALS AND STAINLESS STEEL SPRINGS

**OPTIONS:** RUPTURE DISC FOR OVER-PRESSURE PROTECTION; FUSIBLE METAL FOR OVER TEMPERATURE PROTECTION



### FIRE SUPPRESSION

CONTROL DEVICES WORKS WITH SOME OF THE WORLD'S LEADING OEMS IN THE DESIGN AND MANUFACTURE OF SPECIALIZED VALVES AND NOZZLES FOR USE IN GAS-BASED FIRE SUPPRESSION SYSTEMS. PLEASE CONTACT US FOR MORE INFORMATION ON OUR CAPABILITIES IN THIS SECTOR.



## FREQUENTLY ASKED QUESTIONS

### HOW DO I LOCATE A LOCAL DISTRIBUTOR FOR A SPECIAL ITEM?

PLEASE CONTACT US AND WE WILL PUT YOU IN TOUCH WITH A DISTRIBUTOR IN YOUR AREA.

### HOW DO I OBTAIN FLOW CAPACITIES FOR ASME SAFETY VALVES?

THE FLOW CAPACITY CHARTS FOR ALL OF OUR SAFETY VALVES ARE SHOWN UNDER THE PRODUCTS, ASME SAFETY VALVE SPEC SECTION OF OUR WEB PAGE.

### WHAT IS THE CRACKING PRESSURE FOR A STANDARD CHECK VALVE?

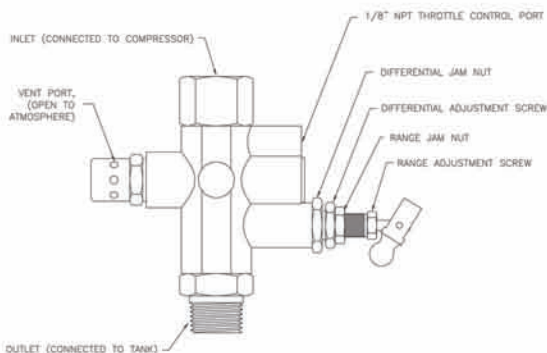
AS A GENERAL STATEMENT, ALL OF OUR CHECK VALVES HAVE A CRACKING PRESSURE OF 3 PSI OR LESS. HOWEVER, MOST CHECK VALVES UNDER 1/2" NPT HAVE A CRACKING PRESSURE OF LESS THAN 1 PSI. IF YOU NEED MORE DETAILED DATA FOR A PARTICULAR CHECK VALVE, OR HAVE A SPECIFIC REQUIREMENT, PLEASE FEEL FREE TO CONTACT US.

### HOW DO I SET MY LGM, P25, OR P25V TO MY DESIRED PRESSURE SETTINGS?

CUT-OUT PRESSURES ARE ADJUSTABLE FROM 60 PSI TO 250 PSI WITH THE STANDARD SILVER SPRING. THE DIFFERENTIAL (DIFFERENCE BETWEEN CUT-OUT AND CUT-IN PRESSURES) IS TYPICALLY SET AT THE FACTORY AT ROUGHLY 15% OF THE CUT-OUT PRESSURE. THIS IS USUALLY A SUITABLE DIFFERENTIAL AND WILL NOT NORMALLY NEED TO BE READJUSTED.

ADJUSTMENT PROCEDURE (REFER TO FIGURE 1):

1. LOOSEN ONLY RANGE SCREW JAM NUT
2. TURN RANGE SCREW CLOCKWISE TO RAISE CUT-OUT AND CUT-IN PRESSURE LEVELS AND COUNTERCLOCKWISE TO DECREASE CUT-OUT AND CUT-IN LEVELS.
3. START COMPRESSOR AND NOTE CUT-OUT AND CUT-IN PRESSURES. MAKE ADJUSTMENTS AS NECESSARY USING RANGE SCREW AND, WHEN ACCEPTABLE, TIGHTEN RANGE SCREW JAM NUT. PROCEED AS FOLLOWS, ONLY IF IT IS NECESSARY TO MAKE A DIFFERENTIAL ADJUSTMENT.
4. ADJUST THE CUT-IN PRESSURE TO THE DESIRED LEVEL PER STEPS 1 THROUGH 3, ABOVE.
5. LOOSEN DIFFERENTIAL SCREW JAM NUT AND TURN DIFFERENTIAL SCREW CLOCKWISE TO RAISE CUT-OUT PRESSURE AND COUNTERCLOCKWISE TO DECREASE THE CUT-OUT PRESSURE. TIGHTEN DIFFERENTIAL SCREW JAM NUT WHEN THE DESIRED CUT-OUT PRESSURE IS SET. SINCE STEP 5 SHOULD NOT CHANGE THE DESIRED CUT-IN PRESSURE SET IN STEP 4, THE ADJUSTMENT IS NOW COMPLETE.



### WHICH PILOT VALVE OR UNLOADER IS RIGHT FOR MY SYSTEM?

CONTROL DEVICES OFFERS A WIDE RANGE OF PILOT VALVES AND UNLOADING VALVES FOR MANY APPLICATIONS:

#### PILOT VALVE:

THE P25 VALVE IS AN ADJUSTABLE PILOT VALVE WITH A 1/4" NPT INLET AND AN 1/8" NPT OUTLET PORT WHICH CAN BE USED TO PILOT HEAD UNLOADERS OR USED WITH A THROTTLE CONTROL TO SLOW DOWN THE ENGINE DURING CUT OUT. THE P25 PILOT VALVE HAS A 3/8-16 UNC MOUNTING BOSS, AND COMES STANDARD WITH AN UNLOADING SLEEVE FOR GAS ENGINE WARM UP. OPTIONS INCLUDE A TOGGLE FOR ONE HAND UNLOADING, A LOCK OUT THUMBSCREW FOR DUAL SYSTEMS CONTROL, AND A 1/4" NIPPLE FOR THE INLET. REFER TO THE PILOT VALVE SECTION OF OUR PRODUCTS WEB PAGE FOR DETAILS ON THE CUT-IN AND CUT-OUT RANGES.

#### VENTING PILOT VALVE:

THE P25V UNLOADER INCORPORATES ALL OF THE P25 OPTIONS ALONG WITH A VENT VALVE TO UNLOAD THE COMPRESSOR DISCHARGE AFTER CUT-OUT. THE VENT VALVE ON THE P25 HAS A 1/4" COMPRESSION FITTING WHICH MUST BE CONNECTED TO THE COMPRESSOR DISCHARGE LINE. THE P25V OFFERS ALL OF THE SAME OPTIONS AS THE P25, EXCEPT FOR THE MOUNTING BOSS.



## FREQUENTLY ASKED QUESTIONS

### *VENTING UNLOADER WITH CHECK VALVE:*

CONTROL DEVICES OFFERS A COMPLETE LINE OF SELF-CONTAINED CONTINUOUS RUN VENT UNLOADERS. THESE VALVES INCORPORATE AN ADJUSTABLE PILOT VALVE, VENT UNLOADER, AND CHECK VALVE THAT PERFORM ALL OF THE FUNCTIONS REQUIRED FOR CONTINUOUS RUN COMPRESSORS. OPTIONS INCLUDE A 1/8" NPT TAPPED PORT FOR THROTTLE CONTROL OF A GAS ENGINE, A TOGGLE UNLOADING LEVER FOR ONE-HAND WARM UP, AND A VENT PORT MUFFLER. DEPENDING ON FLOW AND SPACE REQUIREMENTS, CONTROL DEVICES OFFERS THE MARK II, MARK III, AND MARK IV SERIES OF VALVES. VISIT THE PRODUCTS SECTION OF OUR WEB SITE TO FIND OUT WHICH VALVE IS RIGHT FOR YOU.

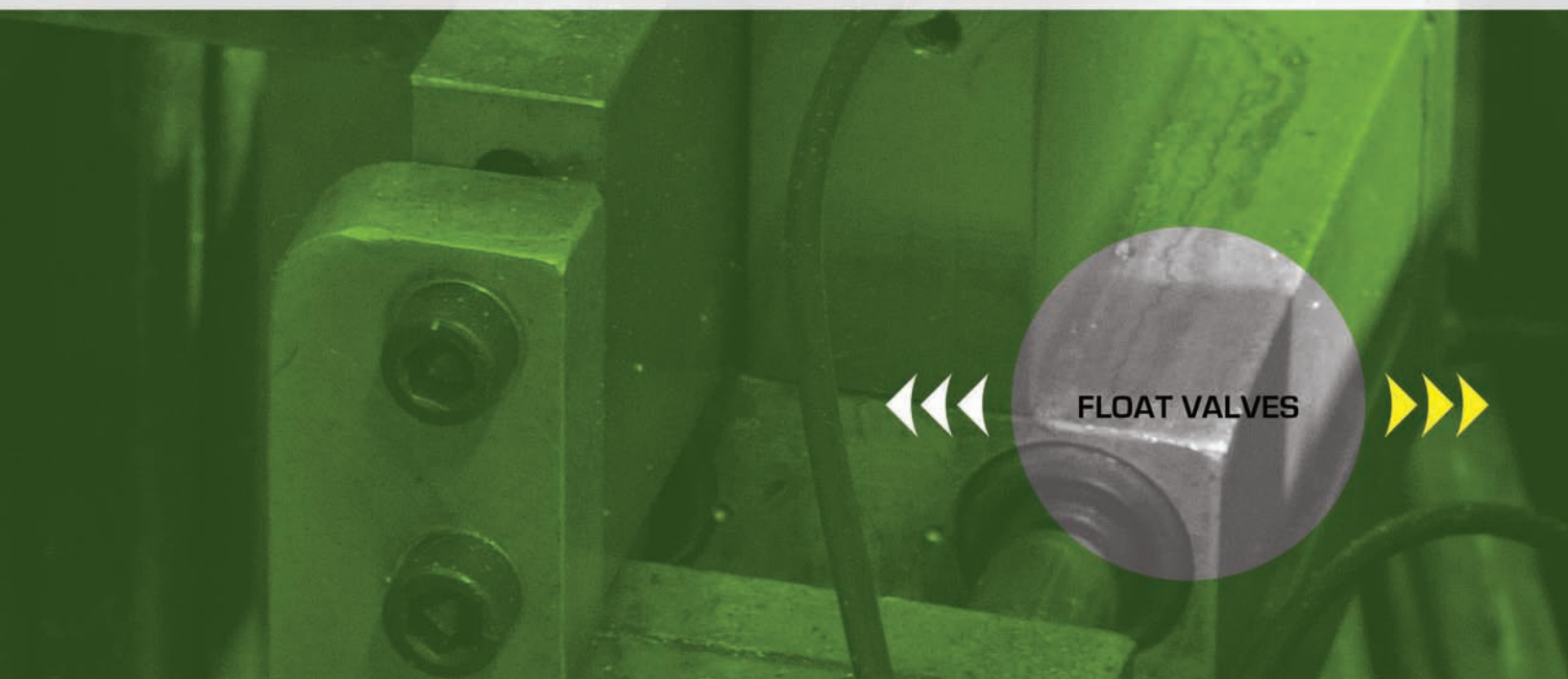
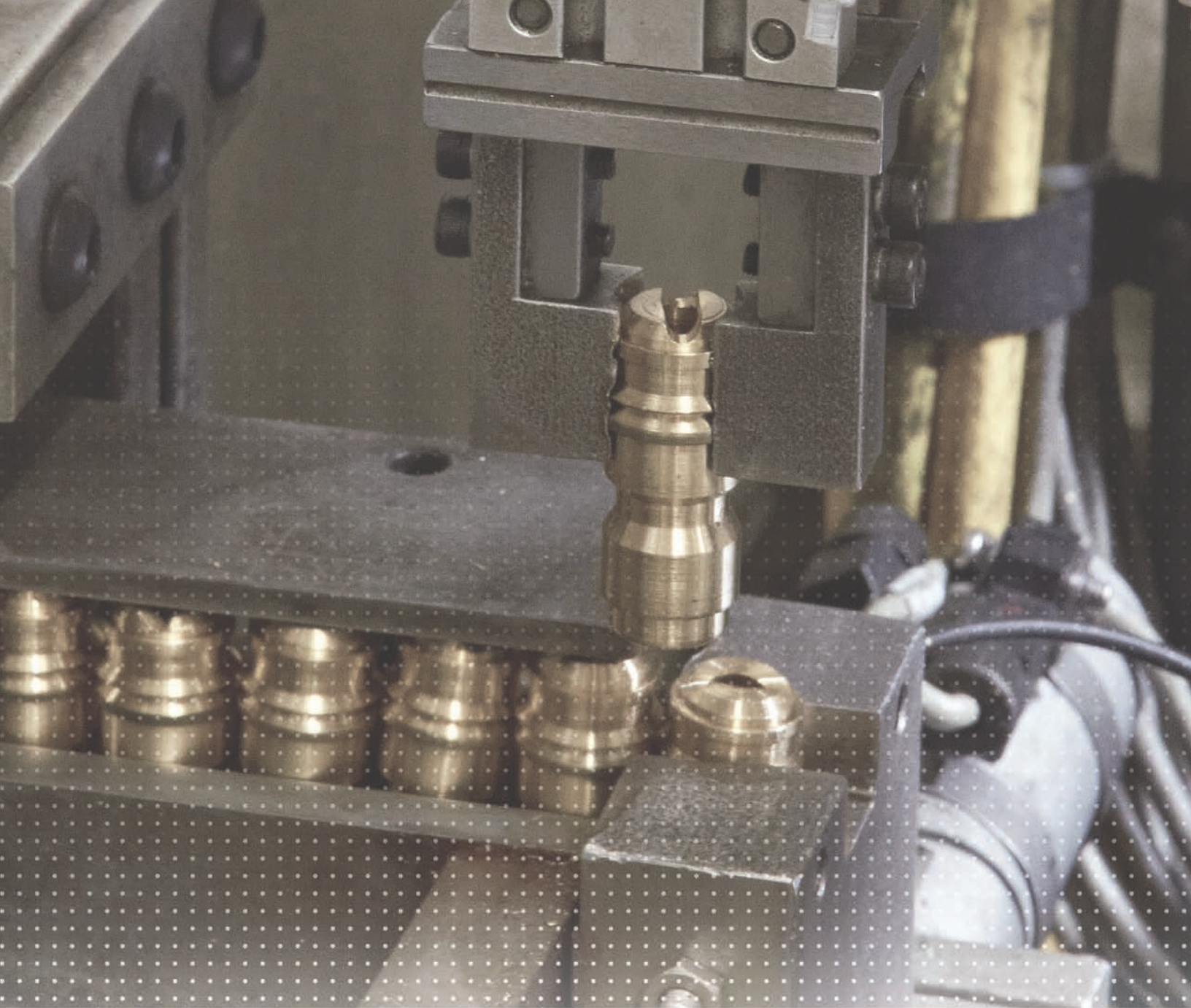
### **WHAT IS THE DIFFERENCE BETWEEN A SAFETY VALVE AND A RELIEF VALVE?**

CONTROL DEVICES OFFERS TWO STANDARD TYPES OF PRESSURE RELIEF DEVICES FOR AIR.

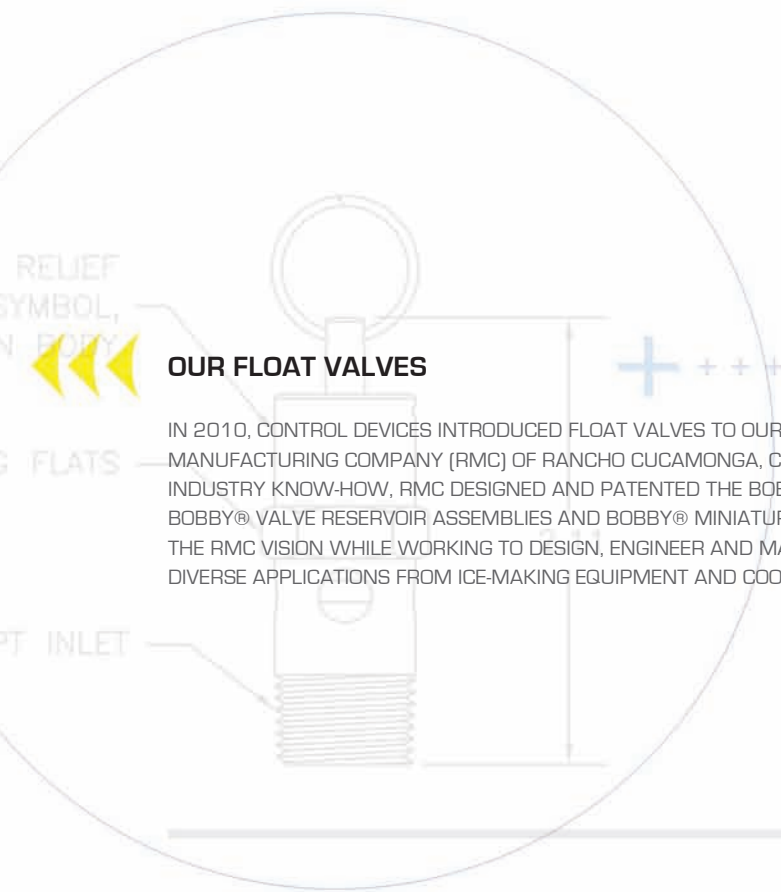
A SAFETY RELIEF VALVE, OR POP-OFF VALVE, IS SET TO A PREDETERMINED PRESSURE USING A SPRING FORCE TO COUNTERACT THE AIR PRESSURE FORCE. WHEN THE FORCE CREATED FROM THE AIR PRESSURE BECOMES GREATER THAN THE SPRING FORCE, THE VALVE 'POPS' FULLY OPEN AND VENTS AIR TO THE ATMOSPHERE. SAFETY RELIEF VALVES ARE SIZED IN SUCH A MANNER THAT THE VALVE WILL ALWAYS HAVE A GREATER FLOW CAPACITY THAN THE SOURCE CREATING THE AIR PRESSURE (I.E. AN AIR COMPRESSOR). THE VALVE WILL REMAIN OPEN UNTIL A RESEAT PRESSURE IS REACHED. THIS RESEAT PRESSURE VARIES WITH VALVE TYPE AND IS USUALLY BETWEEN 35% TO 75% OF THE SET PRESSURE. CONTROL DEVICES HAS EIGHT SERIES OF VALVES THAT ARE MANUFACTURED IN ACCORDANCE WITH SECTION VIII OF THE ASME BOILER AND PRESSURE VESSEL CODE. WE ALSO MANUFACTURE A WIDE RANGE OF NON-CODE VALVES. SEE OUR PRODUCTS SECTION FOR INFORMATION ON THE VALVE TYPES.

A RELIEF VALVE IS SET TO A PREDETERMINED PRESSURE WITH A SPRING FORCE COUNTERACTING THE FORCE CREATED BY THE PRESSURE FROM THE AIR. WHEN THE FORCE CREATED FROM THE PRESSURE OF THE AIR BECOMES GREATER THAN THE FORCE OF THE SPRING, THE VALVE WILL START TO OPEN AND FLOW TO ATMOSPHERE. AS THE PRESSURE CONTINUES TO INCREASE, THE VALVE WILL OPEN FURTHER, ALLOWING MORE FLOW. AS THE PRESSURE DECREASES, THE VALVE WILL CLOSE NEAR THE PRESSURE AT WHICH IT OPENED.





FLOAT VALVES



## OUR FLOAT VALVES

IN 2010, CONTROL DEVICES INTRODUCED FLOAT VALVES TO OUR ALREADY EXPANSIVE PRODUCT LINE VIA THE ACQUISITION OF ROBERTS MANUFACTURING COMPANY (RMC) OF RANCHO CUCAMONGA, CALIFORNIA. A COMPANY WITH OVER 70 YEARS OF MANUFACTURING INDUSTRY KNOW-HOW, RMC DESIGNED AND PATENTED THE BOB® LINE OF PERFORMANCE BRASS AND STAINLESS STEEL FLOAT VALVES, BOBBY® VALVE RESERVOIR ASSEMBLIES AND BOBBY® MINIATURE FLOAT VALVES. TODAY, CONTROL DEVICES CONTINUES THE LEGACY OF THE RMC VISION WHILE WORKING TO DESIGN, ENGINEER AND MARKET NEW CONCEPTS WITHIN THE FLOAT VALVE INDUSTRY, SERVING DIVERSE APPLICATIONS FROM ICE-MAKING EQUIPMENT AND COOLING TOWERS TO LIVESTOCK WATERING EQUIPMENT.





# FLOAT VALVES

## FLOAT VALVES - BOB®

### R400 SERIES BOB® FLOAT VALVES

THE R400 SERIES IS A HIGH CAPACITY FLOAT VALVE WITH MALE NPT INLET AND OUTLET CONNECTIONS. THIS MODEL FEATURES AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL. APPLICATIONS INCLUDE COOLING TOWERS, LIVESTOCK WATERERS, CAR WASHES, HIGH PRESSURE WASHES, SWIMMING POOLS AND MANY OTHER AGRICULTURAL AND INDUSTRIAL APPLICATIONS.

**CONSTRUCTION:** HEAVY DUTY CAST BRASS WITH STANDARD NITRILE SEALS WITH OPTIONAL VITON® SEALS

*R400 Valve Only - NPT x NPT*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R400-3/8	3/8 NPT	3/8 NPT	9 GPM	11.5 GPM	13 GPM	0.44
R400-1/2	1/2 NPT	1/2 NPT	12 GPM	18 GPM	22 GPM	0.63
R400-3/4	3/4 NPT	3/4 NPT	21 GPM	32.5 GPM	39.9 GPM	0.82
R400-1	1 NPT	1 NPT	43.5 GPM	61 GPM	68.5 GPM	1.13

*R400 Valve Assembly with Stem & Float - NPT x NPT*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R400-3/8-5	3/8 NPT	3/8 NPT	R440-5	1/4-20 x 10	125 PSI	1.13
R400-1/2-5	1/2 NPT	1/2 NPT	R440-5	1/4-20 x 10	125 PSI	1.31
R400-3/4-5	3/4 NPT	3/4 NPT	R440-5	1/4-20 x 10	100 PSI	1.50
R400-1-5	1 NPT	1 NPT	R440-6	1/4-20 x 10	100 PSI	1.94



### RH400 SERIES HYBRID FLOAT VALVES

THE RH400 HYBRID FLOAT VALVE IS A COST-SAVING ALTERNATIVE TO THE STANDARD R400 SERIES BOB® FLOAT VALVE. THIS MODEL USES HYBRID TECHNOLOGY COMBINING HIGH DENSITY MATERIALS TO ENSURE STRENGTH AND PERFORMANCE WHILE REDUCING FOOTPRINT AND COST. THE RH400 FEATURES SIMPLE AND IMMEDIATE INTEGRATION INTO SYSTEMS WHERE THE R400 IS USED. IT MAINTAINS FLOW CAPACITIES AND PRESSURE RATINGS EQUAL TO ITS R400 COUNTERPARTS MAKING IT AN IDEAL REPLACEMENT IN VARIOUS APPLICATIONS. ADDITIONAL FEATURES INCLUDE MALE NPT INLET AND FREE FLOWING OUTLET CONNECTIONS, FLUTED PLUNGER, ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL.

**CONSTRUCTION:** HEAVY DUTY CAST BRASS WITH STANDARD NITRILE SEALS WITH OPTIONAL VITON® SEALS

*RH400 Hybrid Valve Only*

Part Number	BOB Counterpart	Pipe Size (in)		Free Discharge Flow Capacity		Weight (lbs)
		Inlet	Outlet	35 PSI	85 PSI	
RH400-3/4	R400-3/4	3/4 NPT	3/4 NPT	21.00 GPM	39.90 GPM	0.43
RH400-1	R400-1	1 NPT	1 NPT	43.5 GPM	68.50 GPM	0.85

*RH400 Hybrid Valve with Stem & Copper Float*

Part Number	BOB Counterpart	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
		Inlet	Outlet				
RH400-3/4-5	R400-3/4-5	3/4 NPT	3/4 NPT	R440-5	1/4"-20 x 10"	125 psi	1.01
RH400-1-5	R400-1-5	1 NPT	1 NPT	R440-6	1/4"-20 x 10"	125 psi	1.43



# FLOAT VALVES

## FLOAT VALVES - BOB®

### R605T HIGH TURBO SERIES BOB® FLOAT VALVES

THE R605T HIGH TURBO SERIES IS A HIGH CAPACITY FLOAT VALVE. IT HAS FEMALE NPT INLET AND FREE FLOWING OUTLET CONNECTIONS. THIS MODEL IS IDEAL FOR APPLICATIONS WITH HIGH TURBULENCE SUCH AS COOLING TOWERS AND CAR WASHES. FEATURES INCLUDE A COMPOUND LEVER MECHANISM AND ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL.

**CONSTRUCTION:** HEAVY DUTY CAST BRASS WITH STANDARD NITRILE SEALS WITH OPTIONAL VITON® SEALS

*RF605T & RF605T "High Turbo" Valve Only - NPT x Free Flow*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
RF605T-1/2	1/2 NPT	Free Flow	18 GPM	24 GPM	27 GPM	1.75
RF605T-3/4	3/4 NPT	Free Flow	18 GPM	24 GPM	27 GPM	1.85
RF605T-1	1 NPT	Free Flow	63 GPM	96 GPM	110 GPM	2.04
R605T-1-1/4	1-1/4 NPT	Free Flow	112 GPM	152 GPM	180 GPM	3.00
R605T-1-1/2	1-1/2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	3.00
R605T-2	2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	3.00

*RF605T & R605T Valve Assembly with Stem & Float - NPT x Free Flow*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
RF605T-1/2	1/2 NPT	Free Flow	R440-5	1/4-20 x 10	115 psi	3.00
RF605T-3/4	3/4 NPT	Free Flow	R440-5	1/4-20 x 10	115 psi	3.20
RF605T-1	1 NPT	Free Flow	R440-8	3/8-16 x 12"	115 psi	4.90
R605T-1-1/4	1-1/4 NPT	Free Flow	R440-7	3/8-16 x 12"	115 psi	4.31
R605T-1-1/2	1-1/2 NPT	Free Flow	R440-8	3/8-16 x 12"	115 psi	4.44
R605T-2	2 NPT	Free Flow	R440-8	3/8-16 x 12"	115 psi	5.06

\*R434-11 Adaptor Included



### R600 SERIES BOB® FLOAT VALVES

THE R600 SERIES IS A HIGH CAPACITY FLOAT VALVE WITH FEMALE NPT INLET AND OUTLET CONNECTIONS. THIS MODEL FEATURES A COMPOUND LEVER MECHANISM AND ROTATING PLUNGER TO PREVENT SEAL WEAR. APPLICATIONS INCLUDE COOLING TOWERS, LIVESTOCK WATERERS, CAR WASHES, HIGH PRESSURE WASHES, SWIMMING POOLS AND MANY OTHER AGRICULTURAL AND INDUSTRIAL APPLICATIONS.

**CONSTRUCTION:** HEAVY DUTY CAST BRASS WITH STANDARD NITRILE SEALS WITH OPTIONAL VITON® SEALS

*RF605T & RF605T "High Turbo" Valve Only - NPT x Free Flow*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
RF605T-1/2	1/2 NPT	Free Flow	18 GPM	24 GPM	27 GPM	1.75
RF605T-3/4	3/4 NPT	Free Flow	18 GPM	24 GPM	27 GPM	1.85
RF605T-1	1 NPT	Free Flow	63 GPM	96 GPM	110 GPM	2.04
R605T-1-1/4	1-1/4 NPT	Free Flow	112 GPM	152 GPM	180 GPM	3.00
R605T-1-1/2	1-1/2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	3.00
R605T-2	2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	3.00

*RF605T & R605T Valve Assembly with Stem & Float - NPT x Free Flow*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
RF605T-1/2	1/2 NPT	Free Flow	R440-5	1/4-20 x 10	115 psi	3.00
RF605T-3/4	3/4 NPT	Free Flow	R440-5	1/4-20 x 10	115 psi	3.20
RF605T-1	1 NPT	Free Flow	R440-8	3/8-16 x 12"	115 psi	4.90
R605T-1-1/4	1-1/4 NPT	Free Flow	R440-7	3/8-16 x 12"	115 psi	4.31
R605T-1-1/2	1-1/2 NPT	Free Flow	R440-8	3/8-16 x 12"	115 psi	4.44
R605T-2	2 NPT	Free Flow	R440-8	3/8-16 x 12"	115 psi	5.06

\*R434-11 Adaptor Included





# FLOAT VALVES

## FLOAT VALVES - BOB®

### R610 SERIES BOB® FLOAT VALVES

THE R610 SERIES IS A HIGH CAPACITY FLOAT VALVE. IT HAS FEMALE NPT INLET AND FREE FLOWING OUTLET CONNECTIONS. THIS MODEL FEATURES A ROTATING PLUNGER TO PREVENT SEAL WEAR, AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL AND A COMPOUND LEVER MECHANISM. APPLICATIONS INCLUDE COOLING TOWERS, LIVESTOCK WATERERS, CAR WASHES, HIGH PRESSURE WASHES, SWIMMING POOLS AND MANY OTHER AGRICULTURAL AND INDUSTRIAL APPLICATIONS.

**CONSTRUCTION:** HEAVY DUTY CAST BRASS WITH STANDARD NITRILE SEALS WITH OPTIONAL VITON® SEALS

*R610, RF610 Valve Only - NPT x Free Flow*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R610-1-1/4	1-1/4 NPT	Free Flow	112 GPM	152 GPM	180 GPM	2.75
R610-1-1/2	1-1/2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	2.75
R610-2	2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	2.75
RF610-1-1/4	1-1/4 NPT	Free Flow	112 GPM	152 GPM	180 GPM	2.75
RF610-1-1/2	1-1/2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	2.75
RF610-2	2 NPT	Free Flow	112 GPM	152 GPM	180 GPM	2.75

*R610, RF610 Valve Assembly with Stem & Float - NPT x Free Flow*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R610-1-1/4-5	1-1/4 NPT	Free Flow	R440-7	1/8 NPT x 12"	115 psi	4.31
R610-1-1/2-5	1-1/2 NPT	Free Flow	R440-8	1/8 NPT x 12"	115 psi	4.44
R610-2-5	2 NPT	Free Flow	R440-8	1/8 NPT x 12"	115 psi	5.06
RF610-1-1/4-5	1-1/4 NPT	Free Flow	R440-7	3/8-16 x 12**	115 psi	4.31
RF610-1-1/2-5	1-1/2 NPT	Free Flow	R440-8	3/8-16 x 12**	115 psi	4.44
RF610-2-5	2 NPT	Free Flow	R440-8	3/8-16 x 12**	115 psi	5.06

\*R209-3/8 x 1/8 Adapter Included

\*\*R434-11 Adapter Included



### RC810 CASA SERIES BOB® FLOAT VALVES

THE RC810 CASA SERIES IS A FLOAT VALVE WITH MALE NPT INLET AND FREE FLOWING OUTLET CONNECTIONS. APPLICATIONS INCLUDE COOLING TOWERS, LIVESTOCK WATERERS, CAR WASHES, HIGH PRESSURE WASHES, SWIMMING POOLS AND MANY OTHER AGRICULTURAL AND INDUSTRIAL APPLICATIONS.

**CONSTRUCTION:** CAST BRASS WITH COMPOUND LEVER MECHANISM AND FLUTED CELCON PLUNGER

**MAX. OPERATING TEMPERATURE:** 120°F

*RC810 Valve Only - NPT x Free Flow*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
RC810-3/8"	3/8 NPT	Free Flow	9 GPM	11.5 GPM	13 GPM	0.63
RC810-1/2"	1/2 NPT	Free Flow	14 GPM	20 GPM	22.5 GPM	0.75
RC810-3/4"	3/4 NPT	Free Flow	27 GPM	33 GPM	36 GPM	0.84
RC810-1"	1 NPT	Free Flow	80 GPM	121 GPM	138 GPM	1.56

*RC810 Valve Assembly with Stem & Float - NPT x Free Flow*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
RC810-3/8-5	3/8 NPT	Free Flow	R440-5	1/4-20 x 10	120 psi	1.44
RC810-1/2-5	1/2 NPT	Free Flow	R440-5	1/4-20 x 10	120 psi	1.44
RC810-3/4-5	3/4 NPT	Free Flow	R440-5	1/4-20 x 10	100 psi	1.69
RC810-1-5	1 NPT	Free Flow	R440-6	1/4-20 x 10	100 psi	2.06



# FLOAT VALVES

## FLOAT VALVES - BOB®

### R700 SERIES BOB® FLOAT VALVES

THE R700 SERIES IS A HIGH CAPACITY FLOAT VALVE. IT HAS MALE STRAIGHT NPT INLET AND MALE NPT OUTLET CONNECTIONS AND IS DESIGNED FOR TANK WALL MOUNTING INSTALLATION. THIS MODEL FEATURES AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL. APPLICATIONS INCLUDE COOLING TOWERS, LIVESTOCK WATERERS, CAR WASHES, HIGH PRESSURE WASHES, SWIMMING POOLS AND MANY OTHER AGRICULTURAL AND INDUSTRIAL APPLICATIONS.

**CONSTRUCTION:** HEAVY DUTY CAST BRASS WITH STANDARD NITRILE SEALS WITH OPTIONAL VITON® SEALS

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R700-3/8	3/8	3/8	9 GPM	11.5 GPM	13 GPM	0.46
R700-1/2	1/2	1/2	12 GPM	18 GPM	22 GPM	0.66
R700-3/4	3/4	3/4	21 GPM	32.5 GPM	39.9 GPM	0.87

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R700L-3/8	3/8	3/8	9 GPM	11.5 GPM	13 GPM	0.47
R700L-1/2	1/2	1/2	12 GPM	18 GPM	22 GPM	0.68
R700L-3/4	3/4	3/4	21 GPM	32.5 GPM	39.9 GPM	0.89

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R700L-3/8-5	3/8	3/8	R440-5	1/4-20 x 10	125 psi	1.12
R700L-1/2-5	1/2	1/2	R440-5	1/4-20 x 10	125 psi	1.33
R700L-3/4-5	3/4	3/4	R440-5	1/4-20 x 10	100 psi	1.54



### R900 SERIES BOB® FLOAT VALVES

THE R900 SERIES IS A HIGH CAPACITY FLOAT VALVE. IT HAS MALE NPT INLET AND OUTLET CONNECTIONS. THIS MODEL FEATURES A FLUTED PLUNGER IDEAL FOR APPLICATIONS WHERE HEAVY SAND AND/OR SILT ARE EXPECTED. ADDITIONAL FEATURES INCLUDE AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL. APPLICATIONS INCLUDE COOLING TOWERS, LIVESTOCK WATERERS, CAR WASHES, HIGH PRESSURE WASHES, SWIMMING POOLS AND MANY OTHER AGRICULTURAL AND INDUSTRIAL APPLICATIONS.

**CONSTRUCTION:** HEAVY DUTY CAST BRASS WITH STANDARD NITRILE SEALS WITH OPTIONAL VITON® SEALS

*R900 Valve Only - NPT x NPT*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R900-3/8	3/8 NPT	3/8 NPT	9 GPM	11.5 GPM	13 GPM	0.44
R900-1/2	1/2 NPT	1/2 NPT	12 GPM	18 GPM	22 GPM	0.63
R900-3/4	3/4 NPT	3/4 NPT	21 GPM	32.5 GPM	39.9 GPM	0.83
R900-1	1 NPT	1 NPT	43.5 GPM	61 GPM	38.5 GPM	1.13

*R900 Valve Assembly with Stem & Float - NPT x NPT*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R900-3/8-5	3/8 NPT	3/8 NPT	R440-5	1/4-20 x 10	125 psi	1.13
R900-1/2-5	1/2 NPT	1/2 NPT	R440-5	1/4-20 x 10	125 psi	1.31
R900-3/4-5	3/4 NPT	3/4 NPT	R440-5	1/4-20 x 10	100 psi	1.50
R900-1-5	1 NPT	1 NPT	R440-6	1/4-20 x 10	100 psi	1.94



# FLOAT VALVES

## FLOAT VALVES - BOB®

### R1350 & R1351 SERIES BOB® FLOAT VALVES

THE R1350 & R1351 SERIES IS A HIGH CAPACITY FLOAT VALVE. THIS MODEL HAS FEMALE NPT INLET AND OUTLET CONNECTIONS. THIS MODEL IS IDEAL FOR APPLICATIONS WHERE CAUSTIC FLUIDS ARE USED OR WHERE SANITATION IS A CONCERN. FEATURES INCLUDE NSF LISTING, AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL.

**CONSTRUCTION:** HEAVY DUTY STAINLESS STEEL CAST, AISI 316 STAINLESS STEEL COMPONENTS, STANDARD VITON® SEALS ON R1350 MODELS AND STANDARD TEFLON™ SEALS ON R1351 MODELS



*R1350 Valve Only - with Disc & Cup Made of Viton®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1350-3/8-N	3/8 NPT	3/8 NPT	37.5 GPM	52 GPM	58 GPM	1.68
R1350-1/2-N	1/2 NPT	1/2 NPT	37.5 GPM	52 GPM	58 GPM	1.63
R1350-3/4-N	3/4 NPT	3/4 NPT	37.5 GPM	52 GPM	58 GPM	1.56

*R1351 Valve Only - with Disc & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1351-3/8-N	3/8 NPT	3/8 NPT	37.5 GPM	52 GPM	58 GPM	1.68
R1351-1/2-N	1/2 NPT	1/2 NPT	37.5 GPM	52 GPM	58 GPM	1.63
R1351-3/4-N	3/4 NPT	3/4 NPT	37.5 GPM	52 GPM	58 GPM	1.56

*R1350-5 Valve Assembly with Stem & Float Disc & Cup Made of Viton®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1350-3/8-5-N	3/8 NPT	3/8 NPT	R1340-5	1/4-20 x 10	85 psi	2.69
R1350-1/2-5-N	1/2 NPT	1/2 NPT	R1340-5	1/4-20 x 10	85 psi	2.63
R1350-3/4-5-N	3/4 NPT	3/4 NPT	R1340-5	1/4-20 x 10	85 psi	2.56

*R1351-5 Valve Assembly with Stem & Float Disc & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1351-3/8-5-N	3/8 NPT	3/8 NPT	R1340-5	1/4-20 x 10	85 psi	2.69
R1351-1/2-5-N	1/2 NPT	1/2 NPT	R1340-5	1/4-20 x 10	85 psi	2.63
R1351-3/4-5-N	3/4 NPT	3/4 NPT	R1340-5	1/4-20 x 10	85 psi	2.56

Viton® is a registered trademark of DuPont-Dow Elastomers/Teflon® is a registered trademark of DuPont



# FLOAT VALVES

## FLOAT VALVES - BOB®

### R1360 & R1361 SERIES BOB® FLOAT VALVES

THE R1360 & R1361 SERIES IS A HIGH CAPACITY FLOAT VALVE. THIS MODEL HAS MALE NPT INLET AND FEMALE NPT OUTLET CONNECTIONS. THIS MODEL IS IDEAL FOR APPLICATIONS WHERE CAUSTIC FLUIDS ARE USED OR WHERE SANITATION IS A CONCERN. FEATURES INCLUDE NSF LISTING, AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL.

**CONSTRUCTION:** HEAVY DUTY STAINLESS STEEL CAST, AISI 316 STAINLESS STEEL COMPONENTS, STANDARD VITON® SEALS ON R1360 MODELS AND STANDARD TEFLON™ SEALS ON R1361 MODELS

*R1360 Valve Only - with Disc & Cup Made of Viton®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1360-3/4-N	3/4 NPT	3/4 NPT	37.5 GPM	52 GPM	58 GPM	1.31

*R1361 Valve Only - with Disc & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1361-3/4-N	3/4 NPT	3/4 NPT	37.5 GPM	52 GPM	58 GPM	1.31

*R1360-5 Valve Assembly with Stem & Float Disc & Cup Made of Viton®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1360-3/4-5-N	3/4 NPT	3/4 NPT	R1340-5	1/4-20 x 10	85 psi	2.31

*R1361-5 Valve Assembly with Stem & Float Disc & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1361-3/4-5-N	3/4 NPT	3/4 NPT	R1340-5	1/4-20 x 10	85 psi	2.31

Viton® is a registered trademark of DuPont-Cow Elastomers/Teflon® is a registered trademark of DuPont



### R1370 & R1371 SERIES BOB® FLOAT VALVES

THE R1370 & R1371 SERIES IS A HIGH CAPACITY, HEAVY DUTY STAINLESS STEEL CAST FLOAT VALVE FEATURING AISI 316 STAINLESS STEEL COMPONENTS. THIS MODEL HAS FEMALE NPT INLET AND OUTLET CONNECTIONS. THIS MODEL IS IDEAL FOR APPLICATIONS WHERE CAUSTIC FLUIDS ARE USED OR WHERE SANITATION IS A CONCERN. FEATURES INCLUDE NSF LISTING, AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL.

**CONSTRUCTION:** HEAVY DUTY STAINLESS STEEL CAST, AISI 316 STAINLESS STEEL COMPONENTS, STANDARD VITON® DISC SEAL WITH TEFLON™ CUP SEAL ON R1370 MODELS AND STANDARD TEFLON™ SEALS ON R1371 MODELS

*R1370 Valve Only - with Disc Made of Viton® & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1370-1-N	1 NPT	3/4 NPT	52.5 GPM	62.4 GPM	71.1 GPM	1.50

*R1371 Valve Only - with Disc & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1371-1-N	1 NPT	3/4 NPT	52.5 GPM	62.4 GPM	71.1 GPM	1.50

*R1370-5 Valve Assembly with Stem & Float Disc Made of Viton® & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1370-1-5-N	1 NPT	3/4 NPT	R1340-8	3/8-16 x 10*	85 psi	3.44

*R1371-5 Valve Assembly with Stem & Float Disc & Cup Made of Teflon®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1371-1-5-N	1 NPT	3/4 NPT	R1340-8	3/8-16 x 10*	85 psi	3.44

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\* 106272-2 3/8"-16 SAE X 3/8" MP Adaptor Included





# FLOAT VALVES

## FLOAT VALVES - BOB®

### R1380 & R1381 SERIES BOB® FLOAT VALVES

THE R1380 & R1381 SERIES IS A HIGH CAPACITY FLOAT VALVE. THIS MODEL HAS FEMALE NPT INLET AND OUTLET CONNECTIONS. THIS MODEL IS IDEAL FOR APPLICATIONS WHERE CAUSTIC FLUIDS ARE USED OR WHERE SANITATION IS A CONCERN. FEATURES INCLUDE NSF LISTING, AN ADJUSTABLE SHORT ARM FOR CUSTOMIZING WATER LEVEL, A COMPOUND LEVER MECHANISM.

**CONSTRUCTION:** HEAVY DUTY STAINLESS STEEL CAST, AISI 316 STAINLESS STEEL COMPONENTS, STANDARD VITON® DISC SEAL WITH TEFLON™ CUP SEAL ON R1380 MODELS AND STANDARD TEFLON™ SEALS ON R1381 MODELS



*R1380 Valve Only - with Disc & Cup Made of Viton®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1380-1-1/4-N	1-1/4 FIP	1-1/4 FIP	112 GPM	152 GPM	180 GPM	4.25
R1380-1-1/2-N	1-1/2 FIP	1-1/2 FIP	112 GPM	152 GPM	180 GPM	4.25
R1380-2-N	2 FIP	2 FIP	112 GPM	152 GPM	180 GPM	4.25

*R1381 Valve Only - with Disc Made of Teflon® & Cup Made of Viton®*

Part Number	Pipe Size (in)		Free Discharge Flow Capacity			Weight (lbs)
	Inlet	Outlet	35 PSI	65 PSI	85 PSI	
R1381-1-1/4-N	1-1/4 FIP	1-1/4 FIP	112 GPM	152 GPM	180 GPM	4.25
R1381-1-1/2-N	1-1/2 FIP	1-1/2 FIP	112 GPM	152 GPM	180 GPM	4.25
R1381-2-N	2 FIP	2 FIP	112 GPM	152 GPM	180 GPM	4.25

*R1380-5 Valve Assembly with Stem & Float Disc & Cup Made of Viton®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1380-1-1/4-5-N	1-1/4 FIP	1-1/4 FIP	R1340-8	3/8-16 x 12*	100 psi	6.25
R1380-1-1/2-5-N	1-1/2 FIP	1-1/2 FIP	R1340-8	3/8-16 x 12*	100 psi	6.25
R1380-2-5-N	2 FIP	2 FIP	R1340-8	3/8-16 x 12*	100 psi	6.25

*R1381-5 Valve Assembly with Stem & Float Disc Made of Teflon® & Cup Made of Viton®*

Part Number	Pipe Size (in)		Float Ball	Stem (in)	Max. Inlet Pressure	Weight (lbs)
	Inlet	Outlet				
R1381-1-1/4-N	1-1/4* FIP	1-1/4 FIP	R-1380-8	3/8-16 x 12*	100 psi	6.25
R1381-1-1/2-N	1-1/2 FIP	1-1/2 FIP	R1340-8	3/8-16 x 12*	100 psi	6.25
R1381-2-5-N	2 FIP	2 FIP	R1340-8	3/8-16 x 12*	100 psi	6.25

Viton® is a registered trademark of DuPont-Dow Elastomers/Teflon® is a registered trademark of DuPont

\* 106272-2 3/8"-16 SAE X 3/8" MIP Adaptor Included

# FLOAT VALVES

## MINIATURE FLOAT VALVES - BOBBY®

### BOBBY® BRASS FLOAT VALVE SERIES (RM66, RM71, RM79, RM378)

THE BOBBY® VALVE IS A MINIATURE FLOAT VALVE. BOBBY® VALVES COME STANDARD WITH A NITRILE PLUNGER SEAL AND FEATURE A STANDARD 1/8" ORIFICE SIZE.

**CONSTRUCTION:** BRASS BODY, STAINLESS STEEL SEAT AND A PLASTIC (EITHER POLYETHYLENE OR POLYPROPYLENE DEPENDING ON MODEL) FLOAT

**MAX. TEMPERATURE:** 175°F

#### RM66 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM66BK	1/4 Compression	9-3/4	1.31 GPM	2.25 GPM	125 PSI	18

#### RM71 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM71BK	3/8 MNPT Tapped 1/8 FNPT	9-3/4	1.31 GPM	2.25 GPM	125 PSI	23

#### RM79 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM79BK	1/2 MNPT Tapped 1/4 FNPT	9-3/4	1.31 GPM	2.25 GPM	125 PSI	30

#### RM378 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM378BK	3/8 Compression	11 1/8	1.31 GPM	2.25 GPM	125 PSI	36



### BOBBY® T SERIES FLOAT VALVE SERIES (RM150, RM153, RM214)

THE BOBBY® VALVE IS A MINIATURE FLOAT VALVE. BOBBY® VALVES COME STANDARD WITH A NITRILE PLUNGER SEAL AND FEATURE A STANDARD 1/8" ORIFICE SIZE. BOBBY® T SERIES VALVES FEATURE A SIMILAR MECHANICAL OPERATION AS THE LARGER BOB® VALVES.

**CONSTRUCTION:** FORGED BRASS BODY, STAINLESS STEEL SEAT AND A PLASTIC (EITHER POLYETHYLENE OR POLYPROPYLENE DEPENDING ON MODEL) FLOAT

**MAX. TEMPERATURE:** 175°F

#### RM150 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM150 BLK	1/4 Compression	9-7/8	1.31 GPM	2.25 GPM	125 PSI	28

#### RM153 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM153BK	3/8 MNPT Tapped 1/8 FNPT	9-7/8	1.31 GPM	2.25 GPM	125 PSI	33

#### RM214 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM214BK	1/2 NPT*	9	2.5 GPM	3.5 GPM	125 PSI	12

Similar Mechanical Operation as Larger Bob® Valves

Forced Brass Body with Stainless Steel Seat

\*3/8" Compression Outlet



# FLOAT VALVES

## MINIATURE FLOAT VALVES - BOBBY®

### BOBBY® COMBO FLOAT VALVE SERIES (RM64, RM65, RM155, RM153P)

THE BOBBY® VALVE IS A MINIATURE FLOAT VALVE. BOBBY® VALVES COME STANDARD WITH A NITRILE PLUNGER SEAL AND FEATURE A STANDARD 1/8" ORIFICE SIZE.

**CONSTRUCTION:** COMBINATION BRASS AND NON-CORROSIVE PLASTIC BODY, BRASS INLET AND A PLASTIC (EITHER POLYETHYLENE OR POLYPROPYLENE DEPENDING ON MODEL) FLOAT

**MAX. TEMPERATURE:** 175°F

#### RM64 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM64BK	1/4 Compression	9-3/4	1.31 GPM	2.25 GPM	125 PSI	19

#### RM65 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM65BK	1/4 Hose Barb	10	1.31 GPM	2.25 GPM	125 PSI	19

Heavy duty two-piece stem assemblies available on some models; upon request

Two-piece stems are special orders except on RM79, RM 378 and RM 214

#### RM155 Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM155BK	1/4 Compression	9-7/8	1.31 GPM	2.25 GPM	125 PSI	30

#### RM153P Assembly with Stem & Polythylene Float

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM153PBK	3/8 MNPT Tapped 1/8 FNPT	9-7/8	1.31 GPM	2.25 GPM	125 PSI	33

Body and Seat made of Celcon®



### RM262 SERIES BOBBY® FLOAT VALVES

THE RM262 SERIES MINIATURE FLOAT VALVE. THIS MODEL IS NSF LISTED AS FOOD SERVICE EQUIPMENT AND IDEAL FOR APPLICATIONS WHERE CAUSTIC FLUIDS ARE USED OR WHERE SANITATION IS A CONCERN.

**CONSTRUCTION:** STAINLESS STEEL AND ALL STAINLESS STEEL COMPONENTS AND A STANDARD VITON® PLUNGER SEAL

#### RM262 Valve Assembly

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM262-N	1/4 NPT	9	1.31 GPM	2.25 GPM	125 PSI	12

# FLOAT VALVES

## MINIATURE FLOAT VALVES - BOBBY®

### RM262P SERIES BOBBY® FLOAT VALVES

THE RM262 SERIES IS A MINIATURE FLOAT VALVE. THIS MODEL IS NSF LISTED AS FOOD SERVICE EQUIPMENT AND IDEAL FOR APPLICATIONS WHERE CAUSTIC FLUIDS ARE USED OR WHERE SANITATION IS A CONCERN

**CONSTRUCTION:** COMBINATION STAINLESS STEEL AND NON-CORROSIVE PLASTIC BODY, BRASS INLET AND A PLASTIC (EITHER POLYETHYLENE OR POLYPROPYLENE DEPENDING ON MODEL) FLOAT, ALL STAINLESS STEEL AND FDA APPROVED PLASTIC COMPONENTS, A STANDARD VITON® PLUNGER SEAL, STAINLESS STEEL SEAT, STAINLESS STEEL STEM AND POLYPROPYLENE FLOAT

RM262P Valve Assembly

Part Number	Inlet Connections (in)	Overall Length (in)	Flow Capacity		Max. Inlet Pressure	Weight per 100 pcs. (lbs)
			35 PSI	85 PSI		
RM262P-N	1/4 NPT	9-3/4	1.31 GPM	2.25 GPM	125 PSI	6



### RM292 SERIES BOBBY® FLOAT VALVES

THE RM292 SERIES IS A MINIATURE FLOAT VALVE AND IS OUR SMALLEST VALVE AND FLOAT ASSEMBLY AVAILABLE. IT IS NSF LISTED AS FOOD SERVICE EQUIPMENT AND IDEAL FOR APPLICATIONS WHERE CAUSTIC FLUIDS ARE USED OR WHERE SANITATION IS A CONCERN.

**CONSTRUCTION:** COMBINATION STAINLESS STEEL AND NON-CORROSIVE PLASTIC BODY, ALL STAINLESS STEEL AND FDA APPROVED PLASTIC COMPONENTS, COMPACT DESIGN, VERTICAL/HORIZONTAL INLET OPTIONS, VARIOUS INLET CONNECTION TYPES, STAINLESS STEEL SEAT, POLYPROPYLENE FLOAT AND ADJUSTABLE STAINLESS STEEL STEM FOR CUSTOMIZING WATER LEVEL

RM292 Series Miniature Valve and Float Assemblies

Part Number	Vertical Inlet Connection (in)	Float	Orifice (in)	Flow Capacity	Weight (lbs)
RM292-1-N	1/4 Compression Nut	PF33	0.052	0.3 GPM	0.3
RM292P-N	1/4 Compression Nut; Nickel	PF29S-1	0.063	0.56 GPM	0.3
RM292-2-N	1/4 Compression Wing Nut	PF33	0.52	0.3 GPM	0.3
RM292P-1-N	1/4 Compression Nut; Nickel Plated Inlet Celcon® Body	PF29S-1	0.63	0.56 GPM	0.3

RM292 Series Miniature Valve and Float Assemblies

Part Number	Horizontal Inlet Connection (in)	Float	Orifice (in)	Flow Capacity @ 55 PSI	Weight (lbs)
RM292-12-N	1/4 Compression Nut; Bobby® Combo Body	PF29S-1	0.052	0.3 GPM	0.3

RM292 Series Miniature Valve and Float Assemblies

Part Number	Vertical Inlet Connection (in)	Float	Orifice (in)	Flow Capacity	Weight (lbs)
RM292-9A-1-N	1/4 Compression Nut	PF16	0.052	0.3 GPM	0.3
RM292-25A-N	1/8 NPT Brass Body	PF16	0.052	0.3 GPM	0.3





# FLOAT VALVES

## MINIATURE FLOAT VALVES - BOBBY®

### RM296 SERIES BOBBY® FLOAT VALVES

THE RM296 SERIES IS A MINIATURE FLOAT VALVE. THIS MODEL FEATURES VERTICAL ORIENTATION WITH A BUILT IN IN-LINE FILTER AND UNIQUE MANUAL SLIDING SHUT-OFF. NSF LISTED AS FOOD SERVICE EQUIPMENT.

**CONSTRUCTION:** PLASTIC BODY, COMPONENTS ARE FDA APPROVED PLASTIC AND STAINLESS STEEL, REMOVABLE STAINLESS STEEL MESH FILTER SCREEN, INTEGRAL SPLASH GUARD, POLYPROPYLENE FLOAT AND ADJUSTABLE STAINLESS STEEL STEM FOR CUSTOMIZING WATER LEVEL.

*RM296 Series Miniature Valve and Float Assemblies*

Part Number	Vertical Inlet Connection (in)	Float	Orifice (in)	Flow Capacity	Weight (lbs)
RM296-1-N	1/4 Compression Nut	PF29S-1	0.052	0.3 GPM	0.4
RM296-2-N	1/8 NPT Brass Body	PF19	0.093	1.3 GPM	0.4



# FLOAT VALVES

## ICE KIT RESEVOIRS

### RM107 SERIES ICE KIT BOBBY® VALVE RESERVOIR ASSEMBLIES

THE RM107 SERIES ICE KITS ARE VALVE AND RESERVOIR ASSEMBLIES FOR USE IN ICE-MAKING MACHINES. THEY ARE NSF LISTED AS FOOD SERVICE EQUIPMENT. THE STEM IS ADJUSTABLE FOR CUSTOMIZING WATER LEVEL, AND VERTICAL/HORIZONTAL INLET OPTIONS WITH VARIOUS CONNECTION TYPES.

**CONSTRUCTION:** PLATED BRASS, STAINLESS STEEL AND FDA APPROVED PLASTIC MATERIALS, POLYCARBONATE RESERVOIR, POLYPROPYLENE FLOAT, ADJUSTABLE STAINLESS STEEL STEM

Part Number	Inlet Orientation	Inlet Connection (in)	Flow Capacity at 50 PSI (GPM)	Weight (lbs)
RM107-2211-N	Vertical Brass	1/4 Compression Nut	0.52	0.5
RM107P-2211-N	Vertical Celcon®	1/4 Compression Nut	0.52	0.5
RM107-2221-N	Vertical Brass	1/4 Compression Wing Nut	0.52	0.6
RM107P-2221-N	Vertical Celcon®	1/4 Compression Wing Nut	0.52	0.6
RM107-2241-N	Horizontal Combo	1/4 Compression Nut	0.52	0.6



### RM416 SERIES ICE KIT BOBBY® VALVE RESERVOIR ASSEMBLIES

THE RM416 SERIES ICE KITS ARE VALVE AND RESERVOIR ASSEMBLIES FOR USE IN LARGE CAPACITY ICE-MAKING MACHINES. THEY ARE NSF LISTED AS FOOD SERVICE EQUIPMENT. THE STEM IS ADJUSTABLE FOR CUSTOMIZING WATER LEVEL, AND A VERTICAL INLET WITH VARIOUS CONNECTION TYPES.

**CONSTRUCTION:** PLATED BRASS, STAINLESS STEEL AND FDA APPROVED PLASTIC MATERIALS, POLYCARBONATE RESERVOIR, POLYPROPYLENE FLOAT, ADJUSTABLE STAINLESS STEEL STEM

Part Number	Inlet Orientation	Inlet Connection (in)	Flow Capacity at 50 PSI (GPM)	Weight (lbs)
RM416-1-N	Vertical Brass	1/4 Compression Elbow	0.52	0.8



# FLOAT VALVES

## FLOATS

### R440 SERIES SPHERICAL COPPER FLOATS

BOB® COPPER FLOATS ARE MADE IN THE USA AND CONSIST OF TWO HALVES SOLDERED TOGETHER USING AN INSIDE LAPPING JOINT WITH LEAD-FREE SOLDER. EACH MODEL HAS A FEMALE THREAD SPUD CONNECTION. THEY ARE DESIGNED FOR OPEN TANK SERVICE ONLY. THE 10" AND 12" MODELS ARE SPECIAL ORDER ITEMS WITH AN EXTENDED LEAD TIME. SPECIAL ORDER ITEMS ARE NON-RETURNABLE AND NON-CANCELABLE.

**CONSTRUCTION:** COPPER

Part Number	Float Diameter (in)	Buoyancy (lbs)	Spud Connection	Weight (lbs)
R440-3	3	0.34	1/4-20 SAE	0.19
R440-4	4	0.80	1/4-20 SAE	0.38
R440-5	5	1.73	1/4-20 SAE	0.58
R440-6	6	3.26	1/4-20 SAE	0.69
R441-6	6	3.26	5/16-18 SAE	0.69
R442-6	6	3.26	3/8-16 SAE	0.69
R440-7	7	5.72	3/8 NPT	1.38
R441-7	7	5.72	5/16-18 SAE	1.38
R442-7	7	5.72	3/8-16 SAE	1.38
R440-8	8	8.03	3/8 NPT	1.94
R442-8	8	8.03	3/8-16 SAE	1.94
R440-10*	10	16.66	1/2 NPT	3.25
R442-10*	10	16.66	3/8-16 SAE	3.25
R440-12*	12	28.38	3/4 NPT	4.50
R442-12*	12	28.38	4/8-16 SAE	4.50
Part Number	Float Diameter (in)	Buoyancy (lbs)	Spud Connection	Weight (lbs)
RM141	4 x 7 (Oval)	2.19	1/4-20 SAE	0.6



### PF SERIES POLYPROPYLENE FLOATS

BOB® POLYPROPYLENE FLOATS ARE MADE IN THE USA AND ARE LIGHTWEIGHT, CORROSION-RESISTANT AND SUITABLE FOR USE IN A BROAD RANGE OF DESTRUCTIVE FLUIDS. THEY ARE DESIGNED FOR OPEN TANK SERVICE ONLY. CONNECTION TYPE VARIES BY MODEL BETWEEN A FEMALE THREAD SPUD CONNECTION, SLOTTED CONNECTION AND UNIVERSAL THREAD CONNECTIONS. SOME MODELS CAN BE WEIGHTED AS REQUIRED.

**CONSTRUCTION:** PLASTIC

**MAX. TEMPERATURE:** 175°F

Part Number	Float Diameter (in)	Buoyancy (lbs)	Female Spud	Weight (lbs)
PF5	5	1/4-20	2.17	0.18
PF6	6	1/4-20	3.81	0.28
PF6-7	6	5/16-18	3.81	0.28
PF8	8	3/8 NPT	9.87	1.00
PF8-1	8	1/4-20	9.87	1.00
PF8-2	8	3/8-16	9.87	1.00
PF8-7	8	5/16-18	9.87	1.00



# FLOAT VALVES

## FLOATS

### PF SERIES SPHERICAL POLYPROPYLENE FLOATS

BOB® POLYPROPYLENE FLOATS ARE MADE IN THE USA AND ARE LIGHTWEIGHT, CORROSION-RESISTANT AND SUITABLE FOR USE IN A BROAD RANGE OF DESTRUCTIVE FLUIDS. THEY ARE DESIGNED FOR OPEN TANK SERVICE ONLY IN APPLICATIONS WHERE TEMPERATURES DO NOT EXCEED 175°F. CONNECTION TYPE VARIES BY MODEL BETWEEN A FEMALE THREAD SPUD CONNECTION, SLOTTED CONNECTION AND UNIVERSAL THREAD CONNECTIONS. THE PF5, PF6 AND PF8 MODELS ARE BLACK UV RESISTANT.

#### CONSTRUCTION: PLASTIC

Part Number	Float Diameter (in)	Buoyancy (lbs)	Female Spud	Weight (lbs)
PF5	5	1/4-20	2.17	0.18
PF6	6	1/4-20	3.81	0.28
PF6-7	6	5/16-18	3.81	0.28
PF8	8	3/8 NPT	9.87	1.00
PF8-1	8	1/4-20	9.87	1.00
PF8-2	8	3/8-16	9.87	1.00
PF8-7	8	5/16-18	9.87	1.00

Part Number	Fits Rod Diameter (in)	Hole Size (in)	Buoyancy (lbs)	Female Spud	Weight (lbs)
PF8-SR250	1/4	0.300	9.00	3/8 NPT	1.00
PF8-SR375	3/8	0.406	9.00	3/8 NPT	1.00
PF8-SR500	1/2	0.550	9.00	3/8 NPT	1.00
PF8-SR625	5/8	0.656	9.00	No Spud	1.00
PF8-SR750	3/4	0.812	9.00	No Spud	1.00
PF8-SR875	7/8	0.921	9.00	No Spud	1.00



### R1340 SERIES STAINLESS STEEL FLOATS

BOB® STAINLESS STEEL FLOATS ARE MADE IN THE USA FROM TWO HALVES OF AISI GRADE 316 STAINLESS STEEL WELDED TOGETHER. THIS MATERIAL PROVIDES AN INCREASED RESISTANCE TO CORROSION AND CHEMICALS. STAINLESS STEEL FLOATS ARE IDEAL FOR HIGH PRESSURE, HIGH TEMPERATURE APPLICATIONS WHERE CORROSION OR SANITATION IS A CONCERN. EACH MODEL HAS A FEMALE THREAD SPUD CONNECTION. THE 7", 10" AND 12" MODELS ARE SPECIAL ORDER WITH AN EXTENDED LEAD TIME. SPECIAL ORDER ITEMS ARE NON-RETURNABLE AND NON-CANCELABLE.

#### CONSTRUCTION: STAINLESS STEEL

Part Number	Float Diameter (in)	Buoyancy (lbs)	Spud Connection	Weight (lbs)
R1340-3	3	0.21	1/4-20 SAE	0.19
R1340-4	4	0.65	1/4-20 SAE	0.44
R1340-5	5	1.55	1/4-20 SAE	0.81
R1340-6	6	2.15	1/4-20 SAE	1.19
R1340-7*	7	3.09	3/8 NPT	1.75
R1340-8	8	6.44	3/8 NPT	1.81
R1340-10*	10	11.63	1/2 NPT	7.19
R1340-12*	12	22.25	3/4 NPT	9.75





# FLOAT VALVES

## MISCELLANEOUS WATER CONTROL VALVES

### RMB25 ICE BULL

THE RMB25 ICE BULL IS AN AUTOMATIC ICE PREVENTION SYSTEM FOR LIVESTOCK WATERING TANKS. THE VALVE IS SEMI-SUBMERGED IN THE WATERING TANK AND OPENS WHEN THE WATER TEMPERATURE DROPS TO 42°F ALLOWING WARMER WATER TO FLOW INTO THE TANK CREATING MOVEMENT ON THE SURFACE AND WARMING THE TANK. THE VALVE CLOSES ONCE THE WATER TEMPERATURE RISES ABOVE 42°F. THIS MODEL FEATURES 1/4" FEMALE NPT INLET AND 1/8" FEMALE NPT OUTLET CONNECTION AND A MINIMAL FLOW RATE TO CONSERVE WATER USE (.2 GALLONS PER MINUTE).

**CONSTRUCTION:** BRASS AND STAINLESS STEEL CONSTRUCTION, NITRILE SEALS



Float Valve Not Included

### RMB25-1 ICE BULL KIT

THE RMB25-1 ICE BULL KIT IS AN AUTOMATIC ICE PREVENTION SYSTEM FOR LIVESTOCK WATERING TANKS COMPLETE WITH THE ICE BULL AND SEVERAL FITTINGS FOR INSTALLATION. THE VALVE IS SEMI-SUBMERGED IN THE WATERING TANK AND OPENS WHEN THE WATER TEMPERATURE DROPS TO 42°F ALLOWING WARMER WATER TO FLOW INTO THE TANK CREATING MOVEMENT ON THE SURFACE AND WARMING THE TANK. THE VALVE THEN CLOSES ONCE THE WATER TEMPERATURE RISES ABOVE 42°F. THIS MODEL FEATURES FEMALE NPT INLET AND OUTLET CONNECTION AND A MINIMAL FLOW RATE TO CONSERVE WATER USE (.2 GALLONS PER MINUTE). THE KIT INCLUDES THE ICE BULL, 1/4" X 1/8" NPT BRASS ELBOW, 1/8" NPT BRASS HOSE BARB AND 12" LENGTH OF 1/4" DIAMETER RUBBER HOSE.

**CONSTRUCTION:** BRASS AND STAINLESS STEEL CONSTRUCTION, NITRILE SEALS

# FLOAT VALVES

## MISCELLANEOUS WATER CONTROL VALVES

### BF-3/4 BARREL FAUCET VALVE

THE BF-3/4 IS A 3/4" FAUCET VALVE. IT IS DESIGNED TO BE INSTALLED DIRECTLY IN BARRELS OR SIMILAR CONTAINERS ALLOWING THE CONTENTS OF THE CONTAINER TO BE DISPENSED AS NEEDED.



### R500-1/4 MINIATURE IN-LINE FILTER

THE R500-1/4 IS AN IN-LINE FILTER FEATURING A QUICK 1/4" COMPRESSION CONNECTION. IT IS NSF LISTED AS FOOD SERVICE EQUIPMENT. FEATURES INCLUDE REMOVABLE STAINLESS STEEL MESH FILTER SCREEN AND A UNIQUE MANUAL SLIDING SHUT-OFF.

**CONSTRUCTION:** FDA APPROVED PLASTIC AND STAINLESS STEEL

Part Number	Inlet and Outlet Connection (in)	Weight (lbs)
R500-1/4	1/4 Compression Nut	0.40



### R825 COMPACT LIVESTOCK WATERING VALVE ASSEMBLIES

THE R825 IS A COMPACT AUTOMATIC WATERING SOLUTION. THE DESIGN ALLOWS FOR EASY CONVERSION TO AUTOMATIC WATERING FROM EXISTING DRUMS, TANKS AND TROUGHS. THIS MODEL HAS A GARDEN HOSE INLET AND FREE FLOWING OUTLET CONNECTIONS ALLOWING FOR QUICK INSTALLATION. THE PLASTIC FLOAT CANNOT LEAK OR BECOME WATER LOGGED AND IS COMPLETELY PROTECTED BY THE SURROUNDING HOUSING. ADDITIONAL FEATURES INCLUDE TWO WATER LEVEL SETTINGS, HIGH PRESSURE SHUTOFF AND A REVERSIBLE NEOPRENE SEAL.

**CONSTRUCTION:** MOLDED PLASTIC

Part Number	Housing
R825	Molded Plastic



# FLOAT VALVES

## REPLACEMENT PARTS/ACCESSORIES

### BRASS FLOAT VALVE REPLACEMENT KITS

PLUNGER, ARM AND SEAL REPLACEMENT KITS FOR BOB® BRASS FLOAT VALVES

Part Number	Disc & Cup Kit	Plunger Kit	Arm Kit	Short Arm	Sort Arm, Stem, Thread
R400-3/8	KB100	KB200	KB301	R470	1/4-20 SAE
R400-1/2	KB110	KB210	KB300	R470	1/4-20 SAE
R400-3/4	KB120	KB220	KB300	R470	1/4-20 SAE
R400-1	KB130	KB230	KB302	R470	1/4-20 SAE
R700-3/8	KB100	KB200	KB301	R470	1/4-20 SAE
R700-1/2	KB110	KB210	KB300	R470	1/4-20 SAE
R700-3/4	KB120	KB220	KB300	R470	1/4-20 SAE
R810-3/8	KB133	KB233	KB333	R306	1/4-20 SAE
R810-1/2	KB133	KB233	KB333	R306	1/4-20 SAE
R810-3/4	KB136	KB236	KB333	R306	1/4-20 SAE
R810-1	KB139	KB239	KB339	R1006	1/4-20 SAE
R900-3/8	KB161	KB260	KB301	R470	1/4-20 SAE
R900-1/2	KB162	KB261	KB300	R470	1/4-20 SAE
R900-3/4	KB163	KB262	KB300	R470	1/4-20 SAE
R900-1	KB164	KB263	KB302	R470	1/4-20 SAE
R600-1-1/4	KB140	KB240	KB310	R470	1/4-20 SAE
R600-1-1/2	KB140	KB240	KB310	R470	1/4-20 SAE
R605T-1/2	KB143	KB243	KB343	A4096-4	1/4-20 SAE
R605T-3/4	KB143	KB243	KB343	A4096-4	1/4-20 SAE
R605T-1	KB146	KB246	KB346	A4096-2	3/8-16 SAE
R605T-1-1/4	KB149	KB249	KB349	A4096-2	3/8-16 SAE
R605T-1-1/2	KB149	KB249	KB349	A4096-2	3/8-16 SAE
R605T-2	KB149	KB249	KB349	A4096-2	3/8-16 SAE
R610-1-1/4	KB150	KB249	KB320	R475	1/8 NPT
R610-1-1/2	KB150	KB249	KB320	R475	1/8 NPT
R610-2	KB150	KB249	KB320	R475	1/8 NPT
RF610-1-1/4	KB150	KB250	KB320	R475-4	3/8-16 SAE
RF610-1-1/2	KB150	KB250	KB320	R475-4	3/8-16 SAE
RF610-2	KB150	KB250	KB320	R475-4	3/8-16 SAE



### STAINLESS STEEL FLOAT VALVE REPLACEMENT KITS

PLUNGER, ARM AND SEAL REPLACEMENT KITS FOR BOB® SS FLOAT VALVES



# FLOAT VALVES

## REPLACEMENT PARTS/ACCESSORIES

### BOB® BRASS STEMS

THREADED STEMS FOR BOB® SS FLOAT VALVES



### BOB STAINLESS STEEL STEMS

THREADED STEMS FOR BOB® SS FLOAT VALVES



### EVERITE LIVESTOCK VALVE REPLACEMENT PARTS

STEMS AND SWIVELS FOR BOB® LIVESTOCK WATERING VALVES

Part Number	Descriptions/Contents
V202-12	Swivel with Chain
	1/4-20 Brass Swivel (1)
	Brass "S" Hook (2)
	12" Brass Chain (1)
	Custom Lengths Available

Part Number	Descriptions/Contents
V202	14-20 Brass Swivel (1)
	Brass "S" Hook (2)
104672-1	Brass "S" Hook Only (1)





# FLOAT VALVES

## REPLACEMENT PARTS/ACCESSORIES

### 106272 SERIES STAINLESS STEEL ADAPTER

FLOAT TO STEM STAINLESS STEEL ADAPTERS FOR BOB® SS FLOAT VALVES

Part Number	Thread Combination
106272-1	Female 1/4-20 SAE x Male 3/8 NPT
106272-2	Female 3/8-16 SAE x Male 3/8 NPT
106272-3	Female 1/8 NPT x Male 3/8 NPT
106272-7	Female 3/8-16 SAE x Male 3/4 NPT
106272-12	Female 3/8 NPT x Male 3/4 NPT
106272-13	Female 5/16-18 SAE x Male 3/8 NPT



### FIBER WASHER

Part Number	Pipe Size (in)	Package Quantity
RS145-6PK25	3/8	25
RS145-8PK25	1/2	25
RS145-12PK25	3/4	25



## TROUBLE-FREE OPERATION FOR FLOAT VALVE SELECTION AND INSTALLATION

ENSURE THAT THE VALVE, STEM AND FLOAT USED ARE RATED FOR YOUR MAXIMUM INLET PRESSURE AND GPM FLOW RATE. CHECK MINIMUM STEM LENGTH AND MINIMUM FLOAT BALL SIZE. THIS MAY VARY ACCORDING TO YOUR APPLICATION AND MAXIMUM INLET PRESSURE.

ALL BOB® AND BOBBY® ASSEMBLIES ARE SHIPPED STANDARD WITH THE MINIMUM RECOMMENDED STEM AND FLOAT SIZES FOR RELIABLE AND ACCURATE LIQUID LEVEL CONTROL UP TO THE MAXIMUM RATED PRESSURE. SOMETIMES YOU CAN USE A SHORTER STEM WITH A LARGER FLOAT OR VICE VERSA; HOWEVER, NOT ALL COMBINATIONS ARE RELIABLE AT ALL PRESSURES.

ENSURE THAT THE VALVE BODY, DISC, CUP, STEM AND FLOAT MATERIALS ARE COMPATIBLE WITH THE TEMPERATURE AND TYPE OF LIQUID CONTROLLED.

FOR NON-STANDARD ASSEMBLIES, IF YOU SEE THAT THE FLOAT IS COMPLETELY SUBMERGED WITHOUT SHUTTING OFF, OR IF THE FLOAT "BOUNCES" ALL BY ITSELF WITHOUT STOPPING, IT USUALLY MEANS THAT THE FLOAT IS TOO SMALL OR THE STEM IS TOO SHORT TO WORK RELIABLY AT THAT PRESSURE. IF YOUR PARTICULAR APPLICATION REQUIRES A SHORTER STEM, BENT STEM AND/OR SMALLER FLOAT THAN RECOMMENDED, IT WILL REDUCE THE AMOUNT OF LEVERAGE OR BUOYANCY AVAILABLE TO CLOSE THE VALVE, THUS LOWERING THE MAXIMUM RATED INLET PRESSURE. A PRESSURE REGULATOR CAN BE USED TO COMPENSATE FOR A REDUCTION IN THE INLET PRESSURE. INSTEAD OF MODIFYING THE ASSEMBLY OR INSTALLING A REGULATOR, CONTROL DEVICES, LLC RECOMMENDS SELECTING A SMALLER STANDARD ASSEMBLY THAT FITS YOUR AVAILABLE SPACE, OR A SMALLER ORIFICE SIZE TO GAIN RELIABLE SHUT-OFF AT HIGHER PRESSURE. PLEASE NOTE, BY REDUCING THE INLET PRESSURE OR SELECTING A SMALLER ORIFICE SIZE THE GPM FLOW RATE WILL BE REDUCED. TO AVOID A REDUCTION, CONSIDER USING TWO SMALLER VALVES INSTEAD OF ONE LARGER VALVE TO MEET BOTH YOUR GPM AND SPACE REQUIREMENTS.

ALWAYS ENSURE THAT THE FLOAT VALVE IS MOUNTED RIGIDLY WITH RESPECT TO THE WATER SURFACE. IF THE TANK WALL, SUPPLY PIPE, OR MOUNTING BRACKET IS ABLE TO FLEX OR MOVE, IT MAY CAUSE THE VALVE TO VIBRATE, OSCILLATE OR "SING" VERY LOUDLY. AS THE VALVE STARTS TO CLOSE, THE PRESSURE INCREASES, CAUSING THE VALVE BODY TO FLEX AWAY FROM THE WATER SURFACE. WHEN THE VALVE BODY MOVES AWAY, THE VALVE OPENS WIDER AND THE PRESSURE DECREASES, CAUSING THE VALVE BODY TO FLEX BACK TO ITS ORIGINAL POSITION. AT THIS POINT, THE VALVE BODY STARTS TO CLOSE AGAIN, CREATING A CYCLE OF OSCILLATION. A RIGID MOUNTING SYSTEM PREVENTS THE POTENTIAL FOR THIS KIND OF VIBRATION OR OSCILLATION TO OCCUR.

THE TANK OR RESERVOIR SHOULD ALWAYS INCLUDE PROVISIONS FOR SOME KIND OF OVERFLOW DRAIN SYSTEM CAPABLE OF HANDLING THE MAXIMUM GPM FLOW RATE. DIRT, PHYSICAL DAMAGE, EXCESS PRESSURE, LOOSE OR IMPROPER ADJUSTMENT, NORMAL WEAR, OR MINERAL DEPOSIT BUILDUP OVER TIME MAY PREVENT THE VALVE FROM FULLY CLOSING. AN OVERFLOW DRAIN SYSTEM WILL PREVENT THE POSSIBILITY OF UNEXPECTED FLOODING, SHOULD THIS OCCUR.

TO PREVENT OVERFLOW DURING NORMAL OPERATION, THE OVERFLOW DRAIN SHOULD BE HIGH ENOUGH ABOVE THE SET WATER LEVEL TO ACCOMMODATE THE WATER LEVEL AT YOUR MAXIMUM INLET PRESSURE AND ALLOW FOR ANY SURFACE TURBULENCE. FOR CLOSED LOOP PUMP SYSTEMS, CONSIDER POSITIONING THE OVERFLOW DRAIN LEVEL HIGHER ABOVE THE SET WATER LEVEL. THIS HELPS TO PREVENT OR REDUCE OVERFLOW BY ALLOWING EXTRA STORAGE CAPACITY TO ACCOMMODATE ADDITIONAL LIQUID IN YOUR LOOP SYSTEM THAT MIGHT DRAIN BACK TO THE RESERVOIR OR TANK WHEN THE PUMP IS STOPPED.

NORMAL WEAR OVER THE LIFE OF THE VALVE MAY CAUSE THE WATER LEVEL SETTING AT SHUT OFF TO GRADUALLY INCREASE SLIGHTLY, RESULTING IN OCCASIONAL READJUSTMENT.

SLIGHT LEAKAGE OR DRIPPING AROUND THE VALVE PLUNGER OR CUP SEAL WHEN THE VALVE IS IN THE OPEN POSITION IS NORMAL FOR ALL FLOAT VALVES OF THIS TYPE. IF THE CUP SEAL WAS TIGHT ENOUGH TO PREVENT ANY LEAKAGE OR DRIPPING AT THE PLUNGER, THE PLUNGER MAY BIND AND STICK OPEN OR CLOSED. THE CUP SEAL PREVENTS EXCESSIVE SPRAY FROM OCCURRING AROUND THE PLUNGER AND DIRECTS THE FLOW TO THE VALVE OUTLET WITHOUT CAUSING THE PLUNGER TO BIND. WATER CANNOT DRIP FROM AROUND THE PLUNGER WHEN THE VALVE IS FULLY CLOSED.

A FLOAT VALVE OF THIS TYPE CLOSSES GRADUALLY RATHER THAN IN A "SNAP ACTION" ON/OFF. SLIGHT LEAKAGE OR DRIPPING FROM THE OUTLET AS THE WATER LEVEL REACHES THE SHUT-OFF POINT IS NORMAL, UNLESS THE SEAT OR DISC IS WORN. IF THE FLOAT ARM OR STEM IS LIFTED SLIGHTLY AND THE DRIPPING STOPS, IT INDICATES THE SEAT AND DISC ARE FUNCTIONING NORMALLY, AND THE WATER LEVEL IS JUST NOT HIGH ENOUGH TO ACHIEVE FULL SHUT-OFF.

CONSIDER CAREFULLY WHERE THE VALVE WILL BE MOUNTED. IT IS BEST TO AVOID BENDING THE STEM, IF POSSIBLE. BENDING THE STEM TOO MUCH SHORTENS THE EFFECTIVE LENGTH OF THE STEM REDUCING THE AMOUNT OF LEVERAGE AVAILABLE TO CLOSE THE VALVE. INSTEAD, ADJUST THE LIQUID LEVEL WITH A SHORT ARM AND A THUMB SCREW OR AN ADJUSTING SCREW. THIS MAY VARY ACCORDING TO YOUR PARTICULAR APPLICATION AND MAXIMUM INLET PRESSURE. CUSTOM BENT STEMS CAN BE PURCHASED IF EXACT REQUIREMENTS ARE PROVIDED.









## OUR CONDENSATE TRAPS

CONTROL DEVICES EXPANDED ITS OFFERING FOR COMPRESSED AIR APPLICATIONS WHEN IT ACQUIRED DRAIN-ALL® OF KNOXVILLE, TENNESSEE, IN 2011. DRAIN-ALL®'S EXTENSIVE LINE OF PATENTED "ZERO-LOSS" CONDENSATE TRAPS NICELY COMPLEMENTED CONTROL DEVICES' EXISTING PRODUCT LINE, CONTRIBUTING ENERGY-SAVING, PERFORMANCE-IMPROVING FUNCTIONALITY TO MANY COMPRESSED AIR AND COMPRESSED GAS SYSTEM APPLICATIONS. DRAIN-ALL®'S CONDENSATE HANDLER HAS BECOME AN INDUSTRY STANDARD FOR PURGING WATER FROM COMPRESSED AIR SYSTEMS IN A HIGHLY EFFICIENT AND ENERGY-SAVING WAY, AND THE SAME PATENTED DESIGN HAS BEEN MODIFIED TO ACCOMMODATE A VARIETY OF NON-STANDARD APPLICATIONS INCLUDING HIGH AND LOW-PRESSURE ENVIRONMENTS, HIGH TEMPERATURES, AND HIGH CONCENTRATIONS OF RUST OR OTHER SOLIDS.





# CONDENSATE TRAPS

## CONDENSATE HANDLER®

THE CONDENSATE HANDLER® REPLACES THE MODEL 1700 AND INCLUDES DRAIN-ALL®'S PATENTED "THROUGHPORT DESIGN" FOR MORE THROUGHPUT CAPACITY OF SOLID DEBRIS. THIS IS THE STANDARD CONDENSATE TRAP IN THE LINE. IT FITS MOST INDUSTRIAL APPLICATIONS AND COMPRESSORS UP TO APPROXIMATELY 1500 HP DEPENDING ON THE AMBIENT CONDITIONS AS WELL AS OTHER FACTORS.



Part Number	Inlet/Outlet (in)	Control Air (in)	Balance Line (in)	Dimensions - in (cm)			Max Liquid Temperature - F (C°)	Max Liquid Pressure - PSIG (BARG)	Control Air Min - PSIG (BARG)	Control Air Max - PSIG (BARG)	Max Flow at 100 PSIG (GPM)	Weight - lbs (kg)
				Height	Width	Depth						
DH50-0LAAA	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	170 (76.7)	170 (11.7)	40 (2.8)	130 (9.0)	1.5	21.0 (9.5)

## PRESSURE HANDLER® 300/750/ATM

THE PRESSURE HANDLER® HANDLE APPLICATIONS FROM 0 PSIG TO 1200 PSIG, AND THE 300 & 750 MODELS SPECIFICATIONS REPRESENT ONLY TWO OF THE MANY OPTIONS AVAILABLE FOR POSITIVE PRESSURES. FOR SITUATIONS WHERE ATMOSPHERIC OR ZERO PRESSURE APPLICATIONS ARE REQUIRED, THE PRESSURE HANDLER® ATM IS THE APPROPRIATE SOLUTION, SERVING AS A PRESSURE POWER PUMP BY TAKING A ZERO PRESSURE LIQUID FEED AND PRESSURIZING IT TO PUSH IT OUT AND EVEN UP TO A HIGHER LEVEL.



Part Number	Inlet/Outlet (in)	Control Air (in)	Balance Line (in)	Dimensions - in (cm)			Max Liquid Temperature - F (C°)	Max Liquid Pressure - PSIG (BARG)	Control Air Min - PSIG (BARG)	Control Air Max - PSIG (BARG)	Max Flow at 100 PSIG (GPM)	Weight - lbs (kg)
				Height	Width	Depth						
PH50-0MAAA	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	170 (76.7)	300 (20.7)	40 (2.8)	130 (9.0)	1.7 @ 200 PSIG	21 (9.5)
PH50-0NAAA	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	170 (76.7)	750 (51.7)	40 (2.8)	130 (9.0)	2.2 @ 500 PSIG	21 (9.5)
PH50-0GAAA	1/2 NPT	1/4 NPT	Non	11 (27.9)	10-3/4 (27.3)	13-1/2 (34.3)	170 (76.7)	Atmospheric	50 (3.4)	130 (9.0)	N/A	22 (10.0)

# CONDENSATE TRAPS

## RUST HANDLER®

THE RUST HANDLER® IS NEEDED WHEN THERE IS SEVERE RUST AND DEBRIS AS IS FOUND IN OLD RECEIVER TANKS AND PIPING, AS WELL AS OLD INTERCOOLERS/AFTERCOOLERS, THAT SLOUGH OFF SCALE.



Part Number	Inlet/Outlet (in)	Control Air (in)	Balance Line (in)	Dimensions - in (cm)			Max Liquid Temperature - F (C°)	Max Liquid Pressure - PSIG (BARG)	Control Air Min - PSIG (BARG)	Control Air Max - PSIG (BARG)	Max Flow at 100 PSIG (GPM)	Weight - lbs (kg)
				Height	Width	Depth						
RH50-0LAAA	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	170 (76.7)	170 (11.7)	40 (2.8)	130 (9.0)	1.5	21 (9.5)

## CORROSION HANDLER®

THE CORROSION HANDLER® HANDLES APPLICATIONS WHERE THE CONDENSATE HAS A CORROSIVE ACTION (FROM A GAS LIKE CO2 OR AN AGGRESSIVE LIQUID COMPONENT FROM A PROCESS) AND/OR THE ENVIRONMENT IS CORROSIVE TO THE TRAP PRODUCT (SUCH AS CEMENT FACTORIES OR OIL RIG OPERATIONS AT SEA). THE SPECIFICATIONS SHOWN REPRESENT TWO (2) OF THE MORE THAN 80 CORROSION HANDLER® TRAP OPTIONS AVAILABLE IN THIS LINE.



Part Number	Inlet/Outlet (in)	Control Air (in)	Balance Line (in)	Dimensions - in (cm)			Max Liquid Temperature - F (C°)	Max Liquid Pressure - PSIG (BARG)	Control Air Min - PSIG (BARG)	Control Air Max - PSIG (BARG)	Max Flow at 100 PSIG (GPM)	Weight - lbs (kg)
				Height	Width	Depth						
CH50-0LAA1	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	170 (76.7)	170 (11.7)	40 (2.8)	130 (9.0)	1.5	21.0 (9.5)
CH50-0LP1A	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	170 (76.7)	170 (11.7)	40 (2.8)	130 (9.0)	1.5	14.7 (6.7)

# CONDENSATE TRAPS

## TEMPERATURE HANDLER®

THE TEMPERATURE HANDLER® IS USED IN HIGH TEMPERATURE APPLICATIONS. SPECIFIC MODELS EXIST FOR 250° F AND 350° F APPLICATIONS.



Part Number	Inlet/Outlet (in)	Control Air (in)	Balance Line (in)	Dimensions - in (cm)			Max Liquid Temperature - F (C°)	Max Liquid Pressure - PSIG (BARG)	Control Air Min - PSIG (BARG)	Control Air Max - PSIG (BARG)	Max Flow at 100 PSIG (GPM)	Weight - lbs (kg)
				Height	Width	Depth						
TH50-OLTAA	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	250 (121)	170 (11.7)	40 (2.8)	130 (9.0)	1.5	21 (9.5)
TH50-OLTAB	1/2 NPT	1/4 NPT	1/8 NPT	11 (27.9)	9-1/4 (23.5)	10-1/2 (26.7)	350 (176.7)	170 (11.7)	40 (2.8)	130 (9.0)	1.5	22.6 (10.3)

## VACUUM HANDLER®

THE VACUUM HANDLER® TRAP IS USED WHEN A VACUUM SYSTEM EXISTS THAT IS PRODUCING THE CONDENSATE.



Part Number	Inlet/Outlet (in)	Control Air (in)	Balance Line (in)	Dimensions - in (cm)			Max Liquid Temperature - F (C°)	Max Liquid Pressure - PSIG (BARG)	Control Air Min - PSIG (BARG)	Control Air Max - PSIG (BARG)	Max Flow at 100 PSIG (GPM)	Weight - lbs (kg)
				Height	Width	Depth						
UH50-OLAAA	1/2 NPT	1/4 NPT	1/2 NPT	15 (38.1)	10-3/4 (27.3)	13-1/2 (34.3)	170 (76.7)	28.5 (723.9)	40 (2.8)	130 (9.0)	1.0	22.6 (10.3)

# CONDENSATE TRAPS

## VOLUME HANDLER®

THE VOLUME HANDLER® IS USED IN SITUATIONS WITH A VERY LARGE LIQUID FLOW. A VARIETY OF MODELS ARE AVAILABLE PROVIDING FLOW CAPACITIES FROM 3 GPM TO OVER 100 GPM.



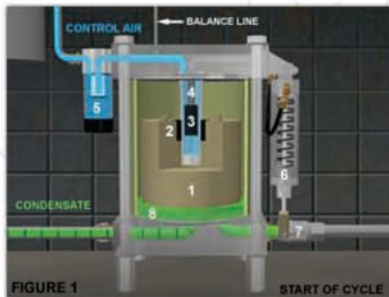
Part Number	Inlet/Outlet (in)	Control Air (in)	Balance Line (in)	Dimensions - in (cm)			Max Liquid Temperature °F (°C)	Max Liquid Pressure -	Control Air Min - PSIG (BARG)	Control Air Max - PSIG (BARG)	Max Flow at 100 PSIG	Weight - lbs (kg)
				Height	Width	Depth						
VH10-0LAAA	1 NPT	1/4 NPT	1/8 NPT	12 (30.5)	10-3/4 (27.3)	11-1/2 (29.2)	170 (76.7)	170 (11.7)	50 (3.4)	130 (9.0)	6.0	24.6 (11.2)
VH20-0LAAA	2 NPT	1/4 NPT	1/8 NPT	13-1/2 (34.3)	10-3/4 (27.3)	14 (35.6)	170 (76.7)	170 (11.7)	50 (3.4)	130 (9.0)	36.0	38.5 (16.6)



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## THE TECHNOLOGY - HOW IT WORKS

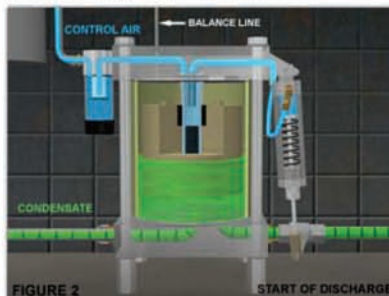
FIGURE 1 - START OF CYCLE



FLOAT (1) WITH INTEGRAL FLOAT MAGNET (2) IS AT LOWEST LEVEL. THE FLOAT MAGNET EXERTS A MAGNETIC FORCE REPELLING THE INNER MAGNET (3) UPWARD, HOLDING IT SEATED AGAINST THE VALVE STEM (4). THIS PREVENTS CONTROL AIR, COMING IN THROUGH THE CONTROL FILTER (5), FROM REACHING THE ACTUATING CYLINDER (6), WHICH STAYS IN THE HOME POSITION WITH THE DISCHARGE BALL VALVE (7) IN THE CLOSED POSITION. THE INNER MAGNET AND VALVE STEM ARE LOCATED IN THE CENTER TUBE AND ARE ISOLATED FROM THE CONDENSATE.

THERE IS ALWAYS A RESIDUAL AMOUNT OF CONDENSATE (8) IN THE BOTTOM OF THE RESERVOIR FROM THE LAST DISCHARGE CYCLE. DRAIN-ALL® STOPS DISCHARGING BEFORE ALL ACCUMULATED CONDENSATE IS REMOVED, PROVIDING A LIQUID SEAL THAT CONSERVES EXPENSIVE COMPRESSED AIR.

FIGURE 2 - START OF DISCHARGE



AS CONDENSATE FLOWS IN, IT RAISES THE FLOAT WITH FLOAT MAGNET TO ITS HIGHEST POSITION. AT THIS POINT, THE DRAIN-ALL® HAS BEEN TRIGGERED TO DISCHARGE. THE FLOAT MAGNET HAS RISEN UP, PAST THE INNER MAGNET, AND REPELLED IT DOWNWARD, OPENING THE FLOW OF CONTROL AIR TO THE ACTUATING CYLINDER. THE ACTUATING CYLINDER OPENS THE BALL VALVE AND BEGINS DISCHARGING THE ACCUMULATED CONDENSATE.

WHEN THE CORRECT AMOUNT OF CONDENSATE HAS BEEN DISCHARGED, LEAVING A LIQUID SEAL, THE FLOAT HAS BEEN LOWERED TO A POINT WHERE THE FLOAT MAGNET HAS PASSED THE INNER MAGNET, REPELLING IT BACK UPWARD AGAINST THE VALVE STEM. THIS STOPS CONTROL AIR FLOW TO THE ACTUATING CYLINDER, WHICH RETURNS TO ITS HOME POSITION, CLOSING THE DISCHARGE BALL VALVE STOPPING THE FLOW OF CONDENSATE. AT THIS POINT IN THE CYCLE, AS SHOWN IN FIGURE 1, CONDENSATE AGAIN BEGINS TO ACCUMULATE IN THE RESERVOIR AND THE CYCLE IS REPEATED.

