

# MUELLER REFRIGERATION COMPANY, Inc.

## PISTON CHECK VALVE SPECIFICATIONS

### STANDARD, HIGH PRESSURE

**PERFORMANCE:**

MAXIMUM ABNORMAL PRESSURE-	1/4" – 1/2": 1305 PSIG (9 MPa) 5/8" – 7/8": 1000 PSIG (6.9 MPa)
BURST PRESSURE-	1/4", 3/8" 4500 PSIG (31 MPa) 1/2" 4000 PSIG (27.6 MPa) 5/8" 3150 PSIG (21.7 MPa) 3/4", 7/8" 3150 PSIG (21.7 MPa)
	MINIMUM HYDROSTATIC STRENGTH TEST AND FATIGUE TEST PER UL 207
ASSEMBLY SEAL TO ATMOSPHERE	
VACUUM HOLD-	29.0 IN/HG @ 24 HRS
LEAK RATE-	< 0.1 OZ/YR
FLOW RATES BY CONNECTION SIZE (C <sub>v</sub> )-	1/4": 0.70 3/8": 1.40 1/2": 2.71 5/8": 4.10 3/4": 8.76 7/8": 9.19
FULL-OPEN PRESSURE – Δp (in PSI)-	
STANDARD	1/4": 1 3/8": 1 1/2": 0.75 5/8": 0.75 3/4": 0.75 7/8": 0.75
HIGH PRESSURE-	1/4": 4.4 3/8": 4.4 1/2": 4.4 5/8": 4.4 3/4": 4.4 7/8": 4.4
FLUID COMPATIBILITY-	ALL TYPES OF FLUORINATED REFRIGERANTS AND OILS

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**RELIABILITY:**

TEMPERATURE LIMITS-	-40°F / 300°F
LIFE EXPECTANCY-	> 50,000 CYCLES

**MATERIALS OF CONSTRUCTION**

BODY, FORGED BRASS -	BRASS, UNS C37700 / CW617N
TAILPIECE, TUBE	COPPER
TUBE ENDS, COPPER -	COPPER
PISTON	BRASS
PISTON GUIDE	BRASS
SEAT GASKET	PTFE COATED FIBERGLASS
RETAINER RING	BRASS
SPRING	STAINLESS STEEL SS 304/302
SOLDER RING	SOLDER ALLOY
LABEL	POLYESTER

**CODE APPROVALS**

UL LISTED FILE NO. (US)-	SA 1392 VOL 1/ SECTION 13
cUL LISTED FILE NO. (Canada)-	SA 1392 VOL 1/ SECTION 13

MARKED IN ACCORDANCE WITH PRESSURE EQUIPMENT DIRECTIVE