

# ZZ Series – for Ultra Low Temps

The ZZ series is designed for ultra low temperature applications such as environmental test chambers and other applications where the desired evaporator temperature is below -40°F.

## Features

- Take-Apart construction for easy field service
- Improved internal construction extends valve life
- External equalizer standard
- Exclusive cage bellows eliminates friction at low temperatures
- External superheat adjustment

## Options

- Interchangeable cages, power assemblies, and flanges for maximum flexibility



## Specifications

Maximum working pressure: 450 psig

**Nomenclature** example: ZC 6 B G125 10 FT 3/8 x 5/8 ODF ANG

ZC	6	B	G125	10 FT	3/8 x 5/8	ODF	ANG
Valve Series Ultra Low Temperature Take-Apart	Capacity (nominal @ -40°F)  Tons	Refrigerant Code  B = R-13/R-23 H = R-22 R = R-502	Charge Code  Z = low temp G(MOP) = press.limiting	Capillary Tube Length  10 FT (std)	Inlet x Outlet Connection Sizes	Connection Type  SAE = flare ODF=solder	Configuration  ANG = 90° angle S/T = straight-thru

R-13/R-23 Valve Type	R-22 Valve Type	Standard Connections
ZC 1BG	ZC 3/4HZ	3/8 ODF x 5/8 ODF
ZC 2-1/2BG	ZC 1-1/2HZ	
ZC 4BG	ZC 2-1/2HZ	
ZC 6BG	ZC 4HZ	1/2 ODF x 5/8 ODF
ZC 9BG	ZC 6HZ	
ZC 13BG	ZC 8HZ	
ZZ ER 20BG	--	7/8 ODF x 1-1/8 ODM

**NOTE:** Nominal capacities shown here are based upon the following conditions:

Refrigerant	Evaporator Temperature	Liquid Temperature at Valve Inlet	Pressure Drop Across Valve
R-23	-40°F	0°F	150 psig
R-22	-40°F	20°F	150 psig

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## Ordering Information

### Cage Assemblies & Gaskets

Valve	Description	PCN
ZZC1BG, ZZC3/4RHW, ZZC3/4RW	X10110-B1B	021288
ZZC2-1/2BG, ZZC1-1/2HW, ZZC1-1/2RW	X10110-B2B	020871
ZZC4BG, ZZC2-1/2HW, ZZC2-1/2RW	X10110-B3B	096091
ZZC6BG, ZZC4HW, ZZC3-1/2RW	X10110-B4B	096312
ZZC9BG, ZZC6HW, ZZC5RW	X10110-B5B	096425
ZZC13BG, ZZC8HW, ZZC8RW	X10110-B6B	096646
ZZER6BG, ZZER4HW, ZZC3-1/2RW	X10059-B4B	045362
ZZER9BG, ZZER6HW, ZZER5RW	X10059-B5B	033697
ZZER20BG, ZZER12HW, ZZER11RW	X10059-B6B	030071
ZZER21BG, ZZER13HW, ZZER13RW	X10059-B7B	025100
ZZER29BG, ZZER18HW, ZZER18RW	X10059-B8B	025101
ZZIR48BG, ZZIR30HW, ZZIR29RW	X10060-B10B	025090
ZZJR16BG, ZZJR10HW, ZZJR9RW	X10111-B5B	089306

Standard Product Offering

### Power Assemblies

PCN	Description
094594	XC-726 BG 30-2B 10FT. SAE EE
039130	XC-726 BG 125-2B 10 FT. SAE EE
024511	XC-726 HW 35-2B 10 FT. SAE EE
025011	XC-726 HW 65-2B 10 FT. SAE EE
023357	XC-726 HW 85-3B 15 FT. SAE EE
036750	XC-726 HW 100-2B 10FT. SAE EE
040569	XC-726 HZ-2B 10FT. SAE EE

Replacement Power Assembly consists of: power assembly, and bulb clamps

Standard Product Offering

### Replacement Gasket Set

PCN	Description
027579	X-13455-1

Gasket Set includes necessary body flange gasket & seat gasket

Standard Product Offering

### Flanges

PCN	Description	Connections
027770	9761-2	1/2 X 7/8 ODF S/T
027771	9761-3	3/8 X 5/8 ODF S/T
027268	9761-4	1/2 X 5/8 ODF S/T
027769	9761-5	3/8 X 1/2 ODF S/T
027766	9761-6	1/2 X 1/2 ODF S/T
027764	A-576	5/8 X 7/8 ODF ANG
056932	C-500-4	3/8 X 1/2 SAE ANG
057153	C-500-5	3/8 X 5/8 SAE ANG
056294	C-500-6	1/2 X 5/8 SAE ANG
065527	C-501-4	3/8 X 1/2 ODF ANG
065748	C-501-5	3/8 X 5/8 ODF ANG
065861	C-501-7	1/2 X 5/8 ODF ANG
044733	X-6346-16	5/8 X 5/8 ODF S/T
044846	X-6346-17	5/8 X 7/8 ODF S/T
094038	X-6346-18	5/8 X 1-1/8 ODF S/T
071757	X-6346-34	7/8 X 1-1/8 ODF S/T
050563	X-6669-1	3/8 X 5/8 SAE S/T
050842	X-6669-2	1/2 X 5/8 SAE S/T
051176	X-6669-4	3/8 X 1/2 SAE S/T
083378	X-6669-5	1/2 X 1/2 SAE S/T

Standard Product Offering