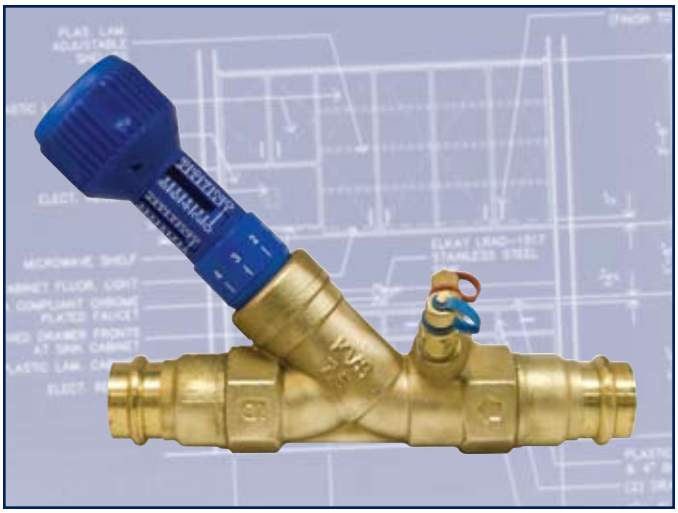
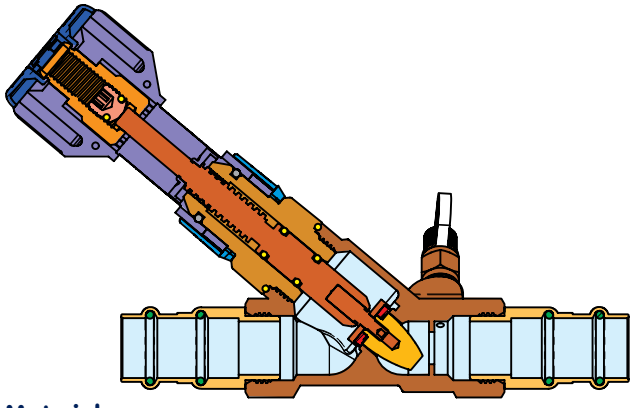
cimPRESS Balancing Valve

cim747PRS.1

CimPRESS x CimPRESS • Fixed Orifice with Integral Test Points





Materials:

- **Body:** Corrosion Resistant Brass "CR"
- **Bonnet:** CW602N Brass
- **Gasket Support:** CW602N Brass
- **Gasket:** EPDM 80 SH
- **Stem and Metal Components:** CW602N Brass
- **Shutter:** CW602N Brass
- **O-Ring:** HNBR
- **Index:** Hostaform
- **Handle:** Nylon
- **Pin:** Steel
- **Entrainer:** CW617N Brass
- **Memory:** CW617N Brass
- **Cap:** Hostaform
- **Joint:** CW602N Brass
- **O-Ring:** HNBR - ASTM D 2000 M2

All Cimberio valves qualify for the American Recovery and Reinvestment Act and the Buy American Act.

AApplications:

The CIM 747PRS.1 balancing valve is manfuactured in accordance with EN ISO 9001 and is designed for direct connection to hard drawn copper and/or stainless steel tube using standard press tools. (CimPRESS is not intended for use with soft or rolled copper tubing.) The CIM 747PRS.1 balancing valve is designed to provide high accuracy flow balancing and measurement across all valve settings. The CIM 747PRS.1 balancing valve is available in valve sizes from 1/2" through 2" and is manufactured of corrosion resistant brass. It is suitable for both heating (LPHW) and cooling applications at working pressures up to 232 PSI.

Features:

- A compact body design integrating a fixed orifice and test points permitting high accuracy flow measurment to within +/- 5% regardless of valve setting.
- A metal to metal thread locking mechanism designed to accurately lock valve settings enabling the valve to be closed and re-opened to its exact pre-set position.
- A flip-up cap housing individual Allen key for valve position locking.
- Heat and impact resistant Nylon non-rising handle with a 360° re-settable index collar and indicator scale which can be read from any angle.
- An EPDM lined valve plug designed to provide increased control and tight shut-off for isolation purposes.

The CIM 747PRS.1 balancing valve has been tested by BSRIA with water containing high air and dirt levels. Testing results demonstrated an excellent tolerance to such conditions providing confidence that the valves will retain a high level of accuracy and repeatability of flow measurement under even the worst system conditions.

Connection:

Standard press connection for copper and stainless steel tube plumbing systems.

Size	Fast Order No.	Technical ID No.
1/2"	747PRS-04	CIM747PRS-E04HBV
3/4"	747PRS-06	CIM747PRS-E06HBV
1"	747PRS-07	CIM747PRS-E07HBV
1-1/4"	747PRS-08	CIM747PRS-E08HBV
1-1/2"	747PRS-09	CIM747PRS-E09HBV
2"	747PRS-10	CIM747PRS-E10HBV

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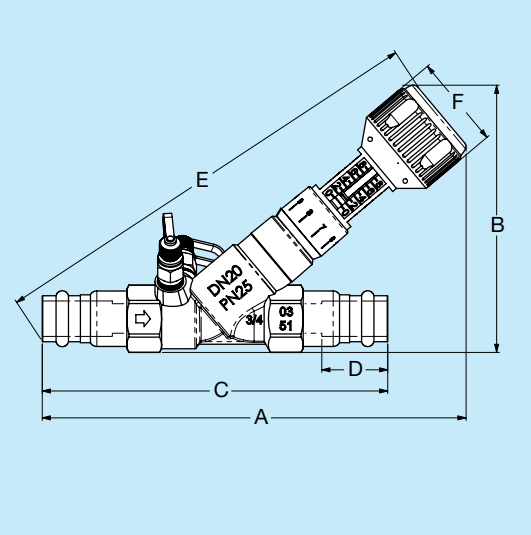
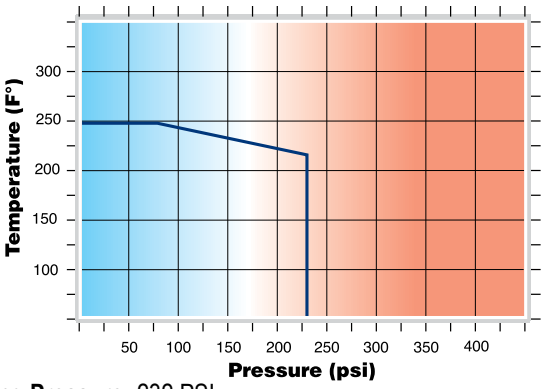


Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	8-1/16" 205mm	9-3/16" 233mm	9-1/4" 235.5mm	10-1/16" 256mm	12-1/4" 311mm	13-7/16" 341.5mm
B	5" 126.5mm	5-3/4" 147mm	6-5/16" 160.5mm	6-11/16" 170mm	8-3/8" 212mm	9-1/16" 230mm
C	6-5/8" 168.5mm	7-1/2" 190mm	8-1/8" 207mm	9-3/8" 238mm	10-1/2" 266mm	12-5/16" 313mm
D	1-9/16" 39.8mm	1-3/4" 44mm	1-3/4" 44mm	1-11/16" 43mm	1-7/8" 48mm	2-1/8" 54mm
E	8-3/8" 213mm	9-7/8" 250mm	10-1/8" 257mm	10-3/4" 273mm	13-7/16" 341mm	14-11/16" 373mm
F	2-1/16" 52mm	2-1/16" 52mm	2-1/16" 52mm	2-1/16" 52mm	2-1/4" 58mm	2-1/4" 58mm
Pounds Grams	1.84 835	2.5 1135	3.19 1445	4.62 2095	6.74 3055	10.21 4630
Required Pipe Insertion Depth	1.5580" 39.57mm	1.7380" 44.14mm	1.7310" 43.97mm	1.6975" 43.12mm	1.8895" 47.99mm	2.128" 54.04mm

PRESSURE/TEMPERATURE RATINGS

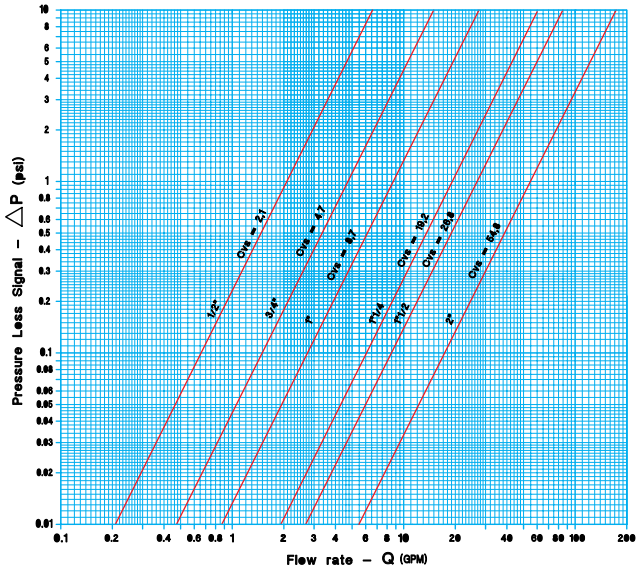


Working Pressure: 232 PSI

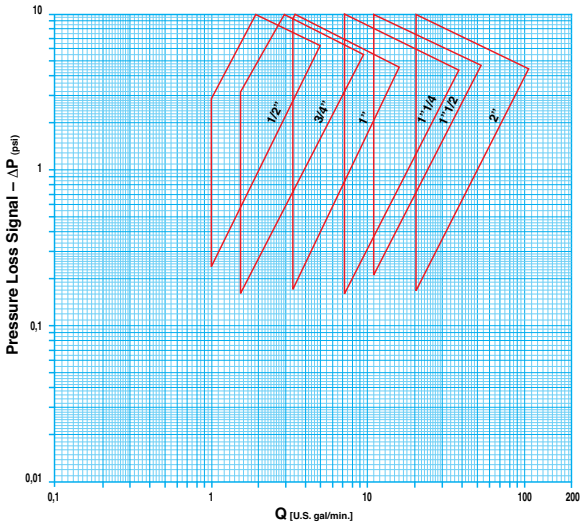
Max. Operating Temperature: Working Limit for Fluids 14˚ F – 248˚ F

Test Pressures: According to ISO 5208

PRESSURE SIGNAL



OPERATING RANGE



CV

CV: Capacity in “U.S. gal/min” at pressure drop of “1 PSI”

Element: Water - Temperature: 59.9˚ F

747PRS.1 SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	2.1	4.7	8.7	19.2	26.8	54.8