

Z9801P

Dominator Peak Pro with PICV & Strainer Drain

Peak **Pro**[™]

Z9801P

Z9801PF

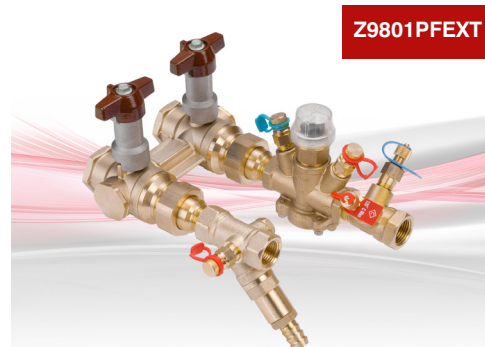
Dominator Peak Pro with PICV,
Strainer Drain and FMD

PN16

Features & Benefits

ProBalance

- Compact, pre-fabricated unit – now available with Peak Pro PICV with a wide range of settable flows to suit all applications
- All valves are subject to both a pressure test, in accordance with BS EN 12266-1, as well as a flow limitation test, in accordance to BSRIA BTS1. This provides reassurance of performance and accuracy within each valve
- Provides accurate flow rates & differential pressure control as well as flow measurement (Z9801PF), system flushing and isolation
- DZR H Body tested to 3.1X Design Working Pressure (DWP) during development for design robustness and tested to EN12516-2 to comply with the Pressure Equipment Directive (PED)
- Fully assembled & factory tested unit reduces installation time, costs and specification risks
- Available with and without extension stems to suit customer specification
- Available in 400kPa & 800kPa rated variants
- On-Off, modulating or feedback actuators are available separately to match specification



BALANCING VALVES

Materials

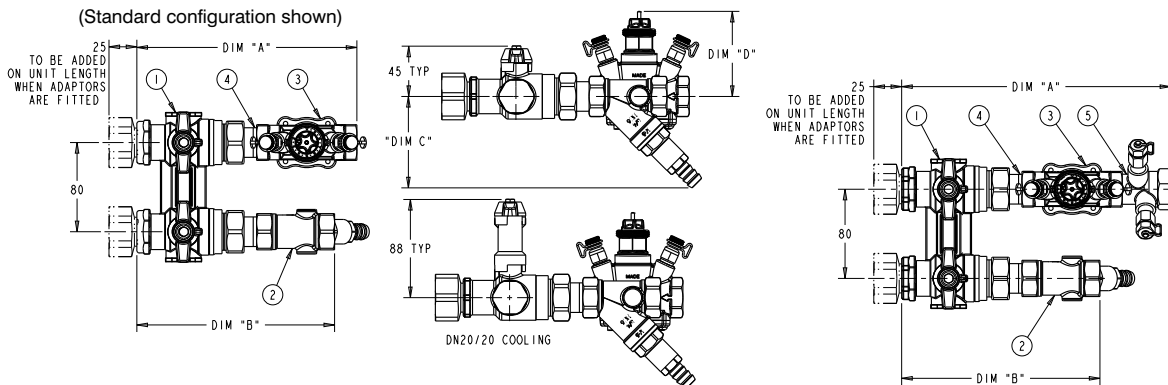
NO.	PART	MATERIAL	SPECIFICATION
1	Bypass H-Body	DZR Brass	BS EN 12165 (CW602N)
2	D299P Strainer Drain	DZR Brass	BS EN 12165 (CW602N)
3	D995 PICV	DZR Brass	BS EN 12165 (CW602N)
4	Tailpiece	DZR Brass	BS EN 12164 (CW602N)
5	D901/ D902 FMD	DZR Brass	BS EN 12164 (CW602N)

Dimensions & Weights

SIZE (DN)	A (mm)	B (mm)	C (mm)	D (mm)	VALVE WEIGHT (kg)
Z9801P 15/15	160	148	76	67	2.15
Z9801P 20/15	184	173	76	67	2.54
Z9801P 20/20	197	178	82	77	2.91
Z9801P 25/20	197	178	82	77	2.91
Z9801P 25/25	248	224	89	77	4.22
Z9801PF 15/15	204	148	76	67	2.35
Z9801PF 20/15	229	173	76	67	2.75
Z9801PF 20/20	241	178	82	77	3.21
Z9801PF 25/20	261	198	82	77	3.51
Z9801PF 25/25	298	224	89	77	4.55

Dimensional Drawings

(Standard configuration shown)



PRESSURE RATING: PN16

TEMPERATURE RATING: -10 to 100°C

END CONNECTIONS:

Flushing By-pass body - BSP Taper,
Strainers & Tailpieces - BSP Taper

SPECIFICATION DZR Brass (BS EN 12165) fan-coil valve/ terminal unit valve assembly. Preassembled to the requirements of each individual terminal unit to include a flushing by-pass with integral isolation valves, Peak Pro Pressure Independent Control Valve (PICV), with options for low flow to high flow, flow measurement device, strainer, drain and pressure test points as and where specified. Extended handles will be fitted for Chilled Water applications. On-Off or modulating actuator is required to control the PICV. Valve assembly will be labelled to include the terminal unit reference number and flow rate. Generally as Crane FS Z9801P & Z9801PF Dominator Peak Pro system with PICV.

Valid as of 250920

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CRANE

FLUID SYSTEMS

1

Z9701P

Dominator Peak Pro
 with PICV & Drain

Z9701PF

Dominator Peak Pro
 with PICV, Drain and FMD

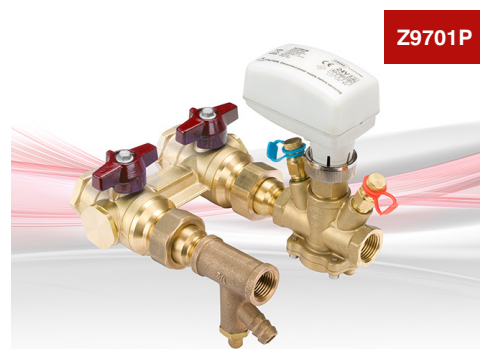


PN16

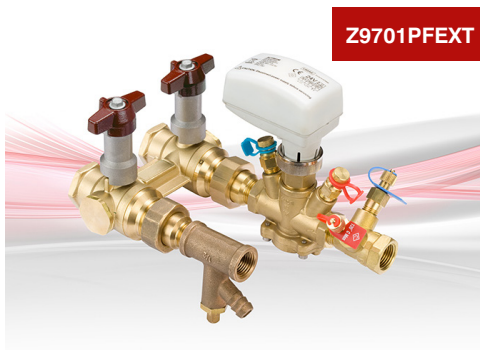


Features & Benefits

- Compact, pre-fabricated unit – now available with Peak Pro PICV with a wide range of settable flows to suit all applications
- All valves are subject to both a pressure test, in accordance with BS EN 12266-1, as well as a flow limitation test, in accordance to BSRIA BTS1. This provides reassurance of performance and accuracy within each valve
- Provides accurate flow rates & differential pressure control as well as flow measurement (Z9701PF), system flushing and isolation
- DZR H Body tested to 3.1X Design Working Pressure (DWP) during development for design robustness and tested to EN12516-2 to comply with the Pressure Equipment Directive (PED)
- Fully assembled & factory tested unit reduces installation time, costs and specification risks
- Available with and without extension stems to suit customer specification
- Available in 400 kPa & 800 kPa rated variants
- On-Off, modulating or feedback actuators are available separately to match specification



Z9701P



Z9701PFEXT

Materials

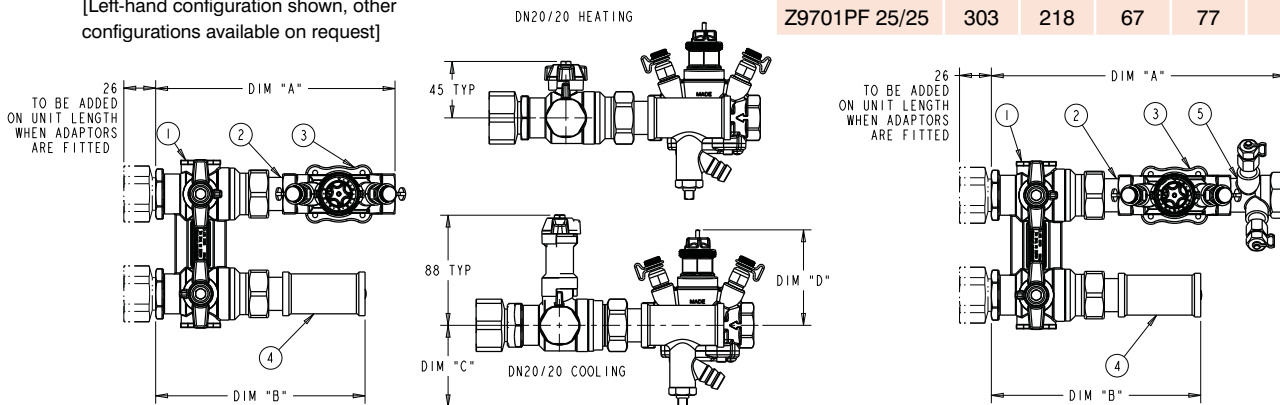
NO.	PART	MATERIAL	SPECIFICATION
1	Bypass H-Body	DZR Brass	BS EN 12165 (CW602N)
2	Tailpiece	DZR Brass	BS EN 12164 (CW602N)
3	D995 PICV	DZR Brass	BS EN 12165 (CW602N)
4	D342 Drain	Bronze	BS EN 1982 (CC491K)
5	D901/ D902 FMD	DZR Brass	BS EN 12164 (CW602N)

Dimensions & Weights

SIZE (DN)	A (mm)	B (mm)	C (mm)	D (mm)	VALVE WEIGHT (kg)
Z9701P 15/15	160	138	60	67	2.0
Z9701P 20/15	179	157	60	67	2.61
Z9701P 20/20	192	168	66	77	2.98
Z9701P 25/20	218	194	66	77	3.28
Z9701P 25/25	254	218	67	77	4.53
Z9701PF 15/15	204	138	60	67	2.2
Z9701PF 20/15	223	157	60	67	2.75
Z9701PF 20/20	236	168	66	77	3.21
Z9701PF 25/20	262	194	66	77	3.58
Z9701PF 25/25	303	218	67	77	4.86

Dimensional Drawings

[Left-hand configuration shown, other configurations available on request]



PRESSURE RATING: PN16

TEMPERATURE RATING: -10 to 100°C

END CONNECTIONS:

Flushing By-pass body - BSP Taper,
 Strainers & Tailpieces - BSP Taper

SPECIFICATION DZR Brass (BS EN 12165) fan-coil valve/terminal unit valve assembly. Preassembled to the requirements of each individual terminal unit to include a flushing by-pass with integral isolation valves, Peak Pro Pressure Independent Control Valve (PICV), with options for low flow to high flow, flow measurement device, drain and pressure test points as and where specified. Extended handles will be fitted for Chilled Water applications. On-Off, feedback or modulating actuator is required to control the PICV. Generally as Crane FS Z9701P & Z9701PF Dominator Peak Pro system with PICV.

Valid as 0250920

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Z9601PF

Peak **Pro**™

Z9601PF

Dominator Peak Pro with PICV,
Strainer Drain, FMD & Flushing Drains

PN16

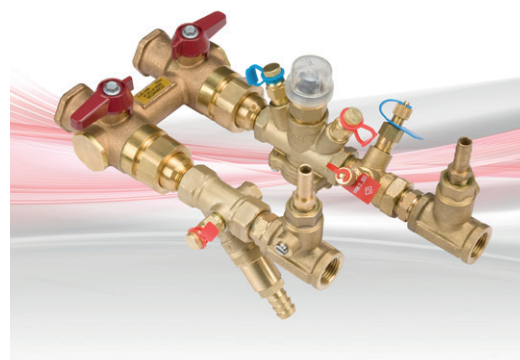
ProBalance

Features & Benefits

- Compact, pre-fabricated unit – now available with Peak Pro PICV with a wide range of settable flows to suit all applications
- All valves are subject to both a pressure test, in accordance with BS EN 12266-1, as well as a flow limitation test, in accordance to BSRIA BTS1. This provides reassurance of performance and accuracy within each valve
- Provides accurate flow rates & differential pressure control as well as flow measurement (Z9601PF), system flushing and isolation
- DZR H Body tested to 3.1X Design Working Pressure (DWP) during development for design robustness and tested to EN12516-2 to comply with the Pressure Equipment Directive (PED)
- Fully assembled & factory tested unit reduces installation time, costs and specification risks
- The D995 PICV is available in 400kPa and 800kPa rated variants
- On-Off, modulating or feedback actuators are available separately to match specification

Materials

ITEM	PART	MATERIAL	SPECIFICATION	QTY
1	Bypass H-Body DN20	DZR Brass	BS EN 12165 (CW602N)	1
2	Tailpiece	DZR Brass	BS EN 12165 (CW602N)	2
3	D995 PICV	DZR Brass	BS EN 12165 (CW602N)	1
4	D901 & D902 FMD	DZR Brass	BS EN 12165 (CW602N)	1
5	D299P Strainer Drain	DZR Brass	BS EN 12165 (CW602N)	1
6	J44 Nipple	DZR Brass	BS EN 12164 (CW602N)	2
7	Drain Tee	DZR Brass	BS EN 12165 (CW602N)	2
8	DN20 to DN25 Adapter	DZR Brass	BS EN 12165 (CW602N)	2
9	P84 Test Points	Brass	BS EN 12164 (CW602N)	1



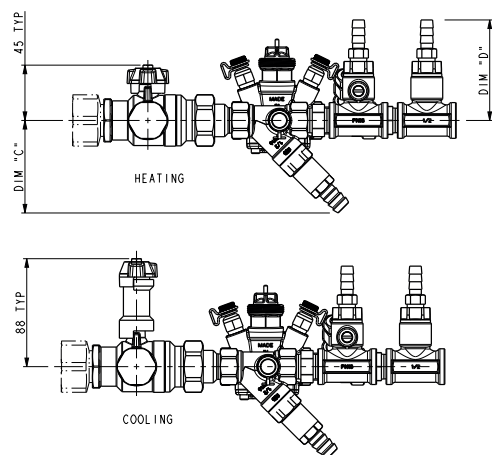
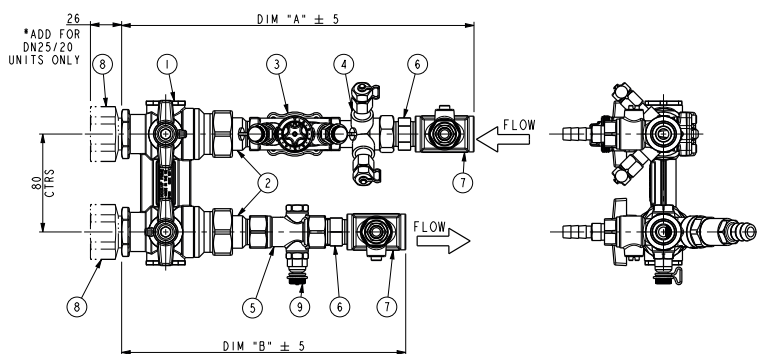
BALANCING VALVES

Dimensions & Weights

SIZE (DN)	A (mm)	B (mm)	C (mm)	D (mm)	VALVE WEIGHT (kg)
Z9601PF DN15/15	269	214	76	83	3.4
Z9601PF DN20/15	288	232	76	83	3.8
Z9601PF DN20/20	304	240	82	93	4.2
Z9601PF DN25/20	330	266	82	93	4.2

*See drawings below
Note: LF variant only available in DN15

Dimensional Drawings



PRESSURE RATING: PN16

TEMPERATURE RATING: -10 to 100°C

END CONNECTIONS:

Flushing By-pass body - BSP Taper,
Strainers & Tailpieces - BSP Taper

SPECIFICATION DZR Brass (BS EN 12165) fan-coil valve/terminal unit valve assembly. Preassembled to the requirements of each individual terminal unit to include a flushing by-pass with integral isolation valve. Peak Pro Pressure Independent Control Valve (PICV), with options for low flow to high flow, flow measurement device, strainer, drain and pressure test points as and where specified. On-Off of modulating actuator is required to control the PICV. Valve assembly will be labelled to include the terminal reference number and flow rate. Generally as Crane Z9601PF Dominator Peak Pro system with PICV.

Valid as of 08/10/20

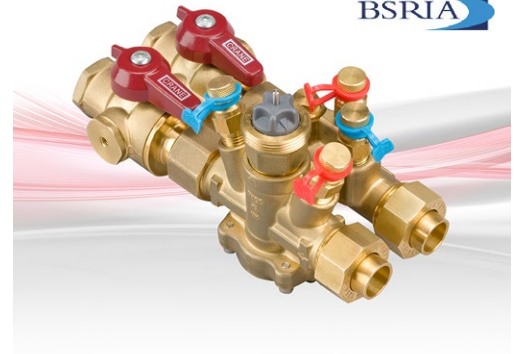
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DD40BSR1B DN15/15

Dominator Peak Pro with PICV,
FMD & Drain Port



PN16



bimstore

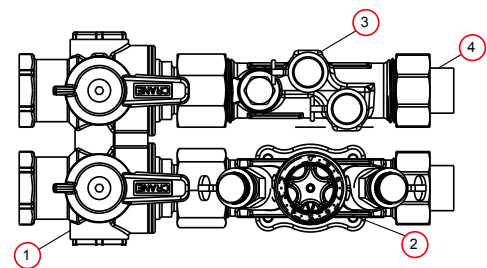
Features & Benefits



- Compact design, with flow and return legs at equal lengths, for simple direct mounting onto terminal unit
- Fitted with Peak Pro with a wide range of settable flows to suit all applications
- Includes Venturi metering station for improved accuracy and pressure drop recovery
- All valves are subject to both a pressure test, in accordance with BS EN 12266-1, as well as a flow limitation test, in accordance to BSRIA BTS1. This provides reassurance of performance and accuracy within each valve
- Bypass unit with integrated 3-way isolation valves
- Integrated dial allowing for calibrated setting of the PICV with integrated test points allowing for ΔP verification

Dimensions & Weights

NOM. SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	WEIGHT (kg)
DN15	70	27	33	120	179	2.0

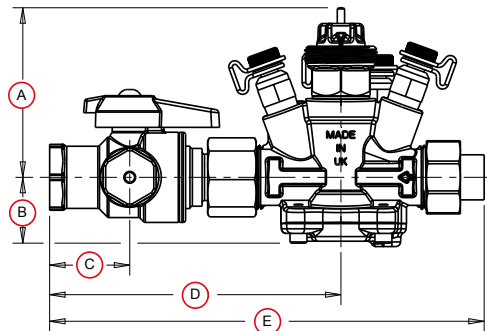


Available in standard or reverse handed orientations.
Valve angles can be configured to suit fan coil requirements.

Materials

NO.	DESCRIPTION	MATERIAL	QTY
1	H-Body Assembly	DZR Brass BS EN 12165 (CW602N)	1
2	DN15 PICV - Male Ended Low Flow 0.008 - 0.080l/s	A DZR Brass	1
	DN15 PICV - Male Ended Std Flow 0.060 - 0.200l/s	B BS EN 12165	
	DN15 PICV - Male Ended High Flow 0.100 - 0.370l/s	C (CW602N)	
3	DN15 - High Flow FMD 4.6Kvs	H S L U	1
	DN15 - Std Flow FMD 1.6Kvs		
	DN15 - Low Flow FMD 0.62Kvs		
	DN15 - Ultra Low Flow FMD 0.24Kvs		
4	Compression Adaptor	A DZR Brass BS EN 12165 (CW602N)	2
	Solder Adaptor	B DZR Brass BS EN 12165 (CW602N)	2

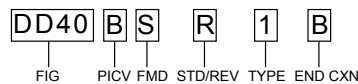
NOTE: Sealing gasket and O-rings material are EPDM



PICV Pressure/Temperature Ratings

TEMPERATURE (°C)	0°C to 90°C
PRESSURE (BAR)	16 Bar
OPERATING PRESSURE RANGE ACROSS VALVE (kPa)	20 - 400 (DN15 LF) 25 - 400 (DN15 SF) 40 - 400 (DN15 HF)

Example figure number guide



Adaptors

End Connections



R1/2" to Rc 3/4"
Adaptor



Compression
(A)



Solder
(B)

PRESSURE RATING: PN16

TEMPERATURE RATING: 0 to 90°C

END CONNECTIONS:

H-Body - BSP Taper
Terminal end - Compression/Solder

SPARES: Gasket 0J00889J

SPECIFICATION DZR Terminal unit valve set to be a pre-assembled unit as supplied by a single manufacturer. Unit to include a flushing bypass with integral isolation valves, PICV and Venturi style FMD with integrated drain port. Flow rate to be adjustable between 0.008 – 0.37l/s, dependent on variant. Connections to be flat face union connections between components with female BSPT on system side and compression/solder on terminal side. Unit to be manufactured from DZR Brass to BS EN 12164/5 CW602N. Valve assembly will be labelled to include the terminal unit reference number, service and flow rate. As per Crane FS Dominator Peak Pro.

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INSULATION JACKET

FOR: Z9801P CHW
(CHILLED APPLICATION ONLY)



DN15/15 to DN25/25

PN16

Material Properties

Item	Material Properties
Insulating Material	<ul style="list-style-type: none"> • 25mm Thick Glass Wool • Fire Protection to BS EN13501-1 Class A1 • Thermal Conductivity (0.034 W/mK at 0°C to 0.042 W/mK at 50°C) BS EN12667
Covering	<ul style="list-style-type: none"> • 25mm Thick Glass Wool • Fire Protection to BS E
Velcro	<ul style="list-style-type: none"> • 100% Polyamide • Woven with cold cutting sewing edges • Temperature range -30°C to 140°C
Pull Cord	<ul style="list-style-type: none"> • Braided Spun Polyester Cord • Melting point 230°C



Weather Resistance

ISO & NORSOK accreditations
<p>ISO 20340:2009 – performance requirements for protective paint systems for offshore Structures for 4,200 hours in cycles of</p> <ul style="list-style-type: none"> • 72 hours accelerated UV weathering ISO 11507 • 72 hours neutral salt spray exposure ISO 9227 • 24hrs steady state low- temperature testing at -20°C <p>IACS UR S14.2.3 – Testing Procedures of Watertight Compartments, a requirement of NORSOK R-004</p>

Care instructions:

When installing insulation jackets sometimes they can become dirty, sticky, or dusty.

	<ul style="list-style-type: none"> • Wash with mild soap or detergent mixed with warm water. • Rinse with clean water adequately. • Wipe the surface completely clean with dry cloth or dry towel.
	<ul style="list-style-type: none"> • Do not leave any water stains or markings on the surface of the jacket. • Do not use abrasive cleaners that will scratch the surface.* • Do not use Steel Wool / Steel Brushes. • Do not drag rough items across the surface. • Do not use Bleach or other cleaners that contain chlorine.

*scratches are not visible depending on what has scratched it.

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