

CRANE

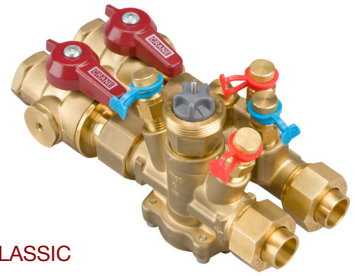
FLUID SYSTEMS

Peak **Pro**[®]
Dominator

DD40 SERIES

These instructions cover the general notes for the following DD40 Series units;

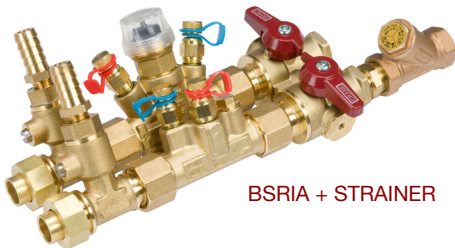
- Flow management system for fan coil units.
- Solder adaptor for end fitting onto copper tube as per BS EN 1254-1.
- Taper thread to form a mechanical seal as per BS EN 10226 (On H-Body system side only).
- Combines essential control components and connecting pipework into one compact, fully assembled unit ready to connect.
- The Dominator Peak Pro is compact and ultra light weight.
- The bypass valve unit comprises two 3 Way Ball valves.
- Includes the Peak Pro (Pressure Independent Control Valve) for optimum flow control.



CLASSIC



FLUSHING



BSRIA + STRAINER



4-PORT

INSTALLATION

The valve may be installed directly or remotely to a load (typically a Fan Coil Unit). The direction of flow should be such that the PICV is on the return from the load.

PREPARATION/FITTING

Steel tube - cut square and de-burr internally and externally, thread to BS EN 10226-2 and fit to Dominator using PTFE tape to BS7786:2006 or other recommended jointing compound. Other types of piping system can be used providing a suitable adaptors with a threaded end is utilised.

Whilst fitting pipe and/or adaptors it is important that the wrench is positioned close to the joint to be assembled, in order to avoid damaging the valve.

The Dominator Peak Pro shall be supported using proprietary mounting brackets or other suitable devices see FIGURE 2 this enables the pipework to be well supported and avoids undue strain on the joints of the Dominator Peak Pro.

Connection to the FCU is achieved through either a solder or compression joint.

Before use re-tighten the union nuts, to a torque of 30Nm, always ensure the rubber gasket sits between the two flat faces.

PLEASE NOTE – where a union joint is loosened, a new gasket will be required prior to reassembly to the above torque. Spare Part Number 0J00889J.

FIGURE 2



M5 threaded hole.

OPERATION - BYPASS VALVE

The mode of operation can be changed by setting the handles as indicated in Figure 1.

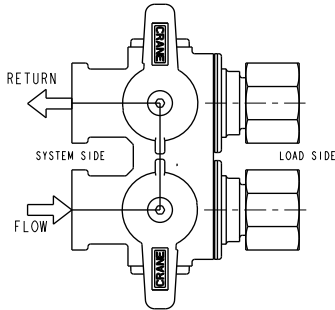
MAINTENANCE - BYPASS VALVE

This valve is intended for group 2 liquids only, as defined by the Pressure Equipment Directive 2014/68/EU.

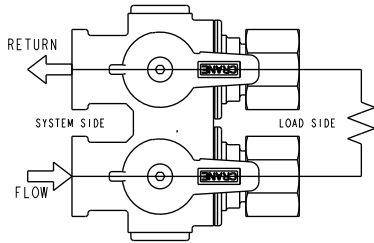
For further assistance please call our technical helpline on +44 (0) 1473 277400 or email us at: enquiries@cranefs.com.

Following a policy of continuous improvement, Crane Fluid Systems reserves the right to alter specifications shown in this document and the e-catalogue without prior notice.

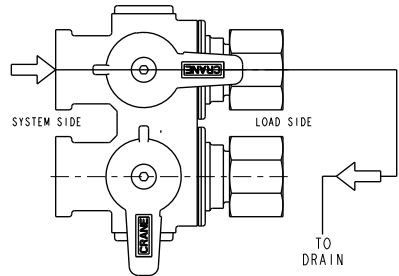
FIGURE 1: MODES OF OPERATION



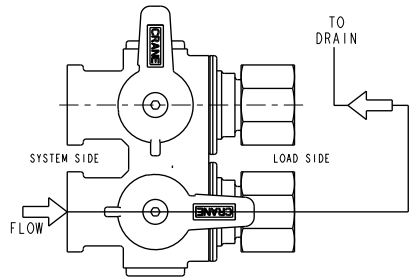
ISOLATION AND FLUSHING BYPASS



NORMAL OPERATION



***BACK FLUSHING**



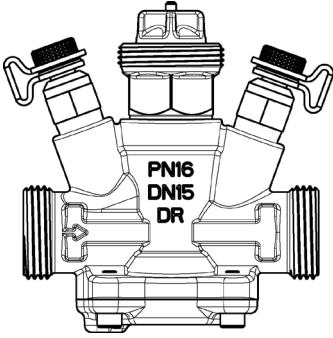
***FORWARD FLUSHING**

DN15 LF			DN15 SF			DN15 HF		
POS	Typical ΔP	FLOW	POS	Typical ΔP	FLOW	POS	Typical ΔP	FLOW
2	15	0.008	2	20	0.060	2	25	0.100
3	15	0.015	3	20	0.085	3	30	0.15
4	15	0.028	4	20	0.115	4	35	0.10
5	15	0.038	5	20	0.130	5	35	0.240
6	20	0.050	6	20	0.150	6	35	0.280
7	20	0.060	7	20	0.170	7	40	0.310
8	20	0.070	8	25	0.180	8	45	0.330
9	20	0.075	9	25	0.190	9	50	0.350
10	20	0.080	10	25	0.200	10	50	0.370

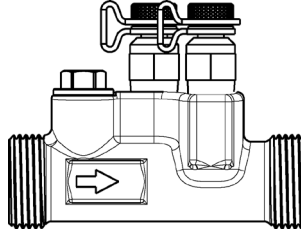
*Only applicable on flushing and 4-Port units which include a flushing drain on flow and return leg. It is not recommended to flush through PICVs. The PICV is a control valve with close tolerance flow path. Flushing through these valves may introduce debris which could block the flow paths. As per BSRIA BG29.

SYSTEM COMPONENTS

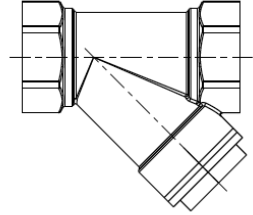
For detailed installation, operating and maintenance instructions for the system components that combine to make up the DD40 Series Dominator Peak Pro, please see the relevant sections of our website as below:



D995 PICV



VENTURI METERING STATION



D298 STRAINER

DN15 Venturi

	DV951 ULF	DV951 LF	DV951 SF	DV951 HF
Signal Differential Pressure (Kvs)	0.24	0.62	1.6	4.6
Overall Differential Pressure (Kv)	0.257	0.72	1.63	6.29

For information on all other components and additional configurations please contact the Crane Technical Support Desk at: tech-enquiries@technicalbsu.com



To visit our Video Library go to:
www.youtube.com/user/CraneBSU

CRANE FLUID SYSTEMS



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