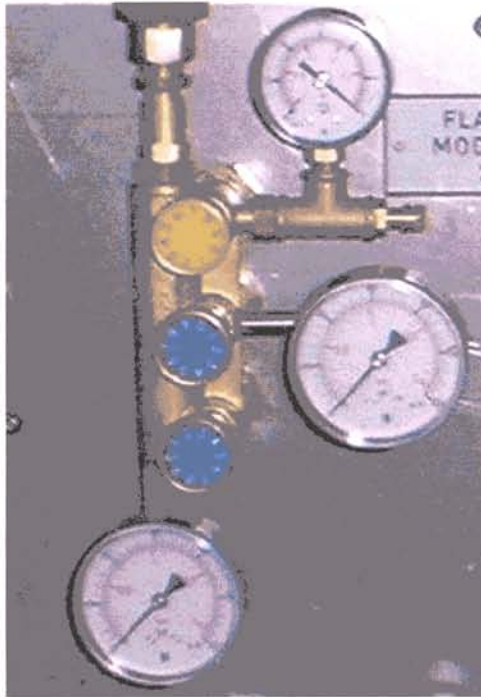


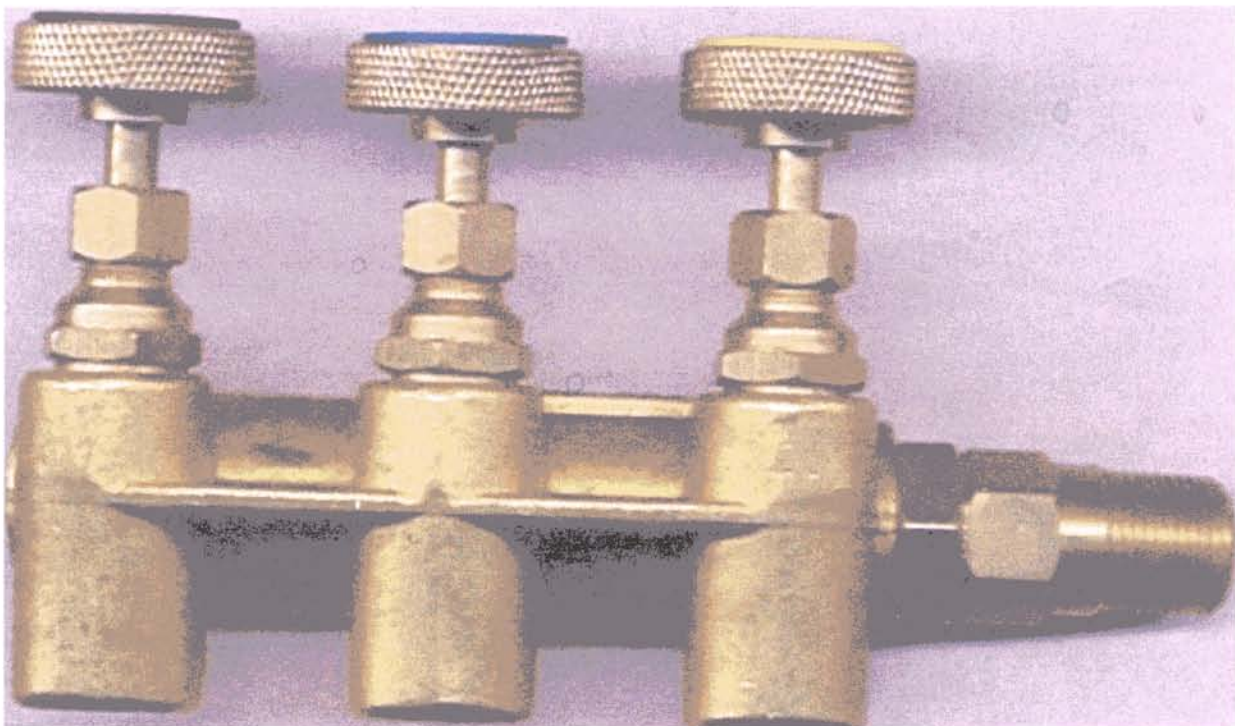
Stock No	Description
32/08/---	Triplex Valve Complete With Gauges

Triplex Valve



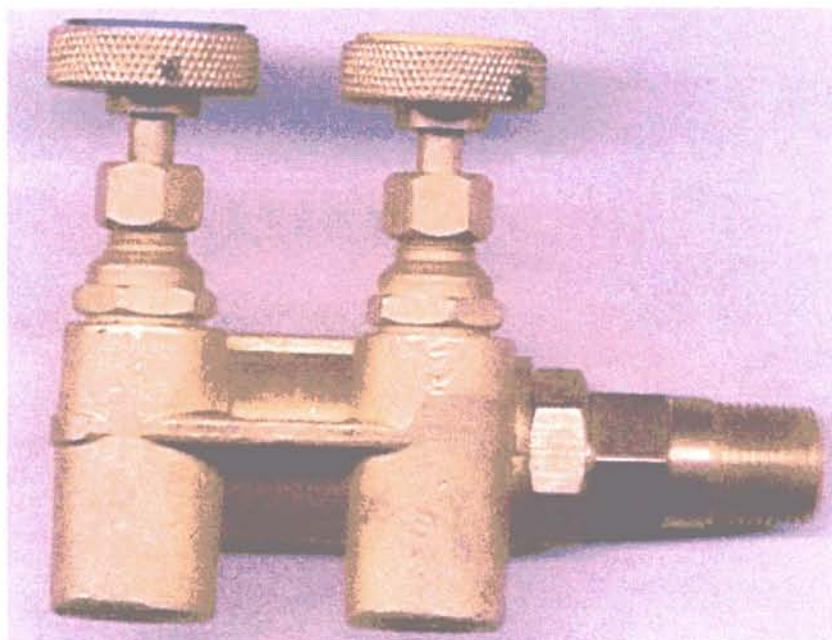
This shows a triplex valve with both pressure and suction gauges, these can be fitted to give readings of air pressure after the needle valve to show how much air is being used, and a gas suction reading to give a reading of gas suction in relation to the air.

The gauge at the bottom is to read a low fire pressure reading (both gas suction and high fire air pressure will show no reading on low fire as quantity is so low).



Stock No	Description
32/06/---	Duplex Valve

Duplex valve



These valves have interchangeable injectors dependant on number of burners, type of burner, gas mixture and working flame shape.

The valve control on the gas and air make for easy and controllable flame adjustment.

Additional gauges can be fitted to give readings of both air pressure, and gas suction to make adjustments repeatable to previous settings.

Burner & Flame Technology Ltd
Cheethams Mill, Park Street ,
Stalybridge, Cheshire SK15 2BT, England.

BFT policy is one of continuous improvement, therefore the company reserves the right to change the design and specification without notice.

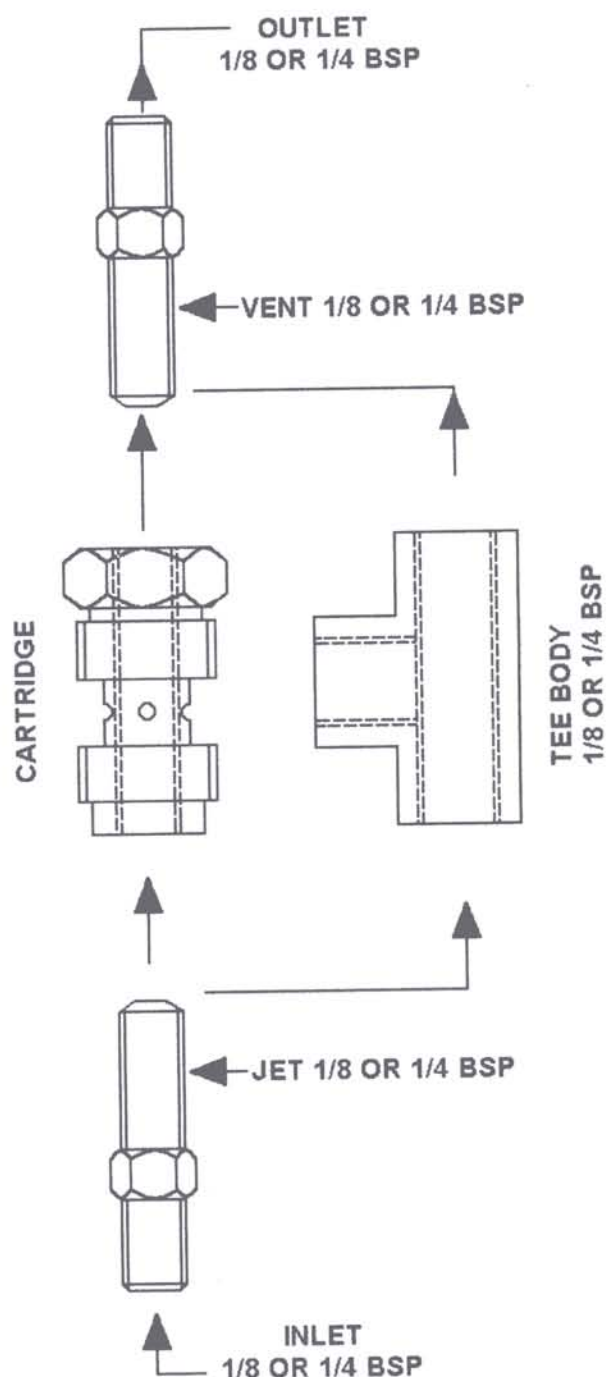
Tel: 00 44 (0161) 304 8442
Fax: 00 44 (0161) 304 8443

Stock No	Description

Interchangeable injectors for use with duplex and triplex valves.

Jets and vents for use with IMO, IM1, IM2 and IM3 range

See separate data sheets for details of duplex and triplex valves, and IMO to IM3 injectors.



Stock No	Description

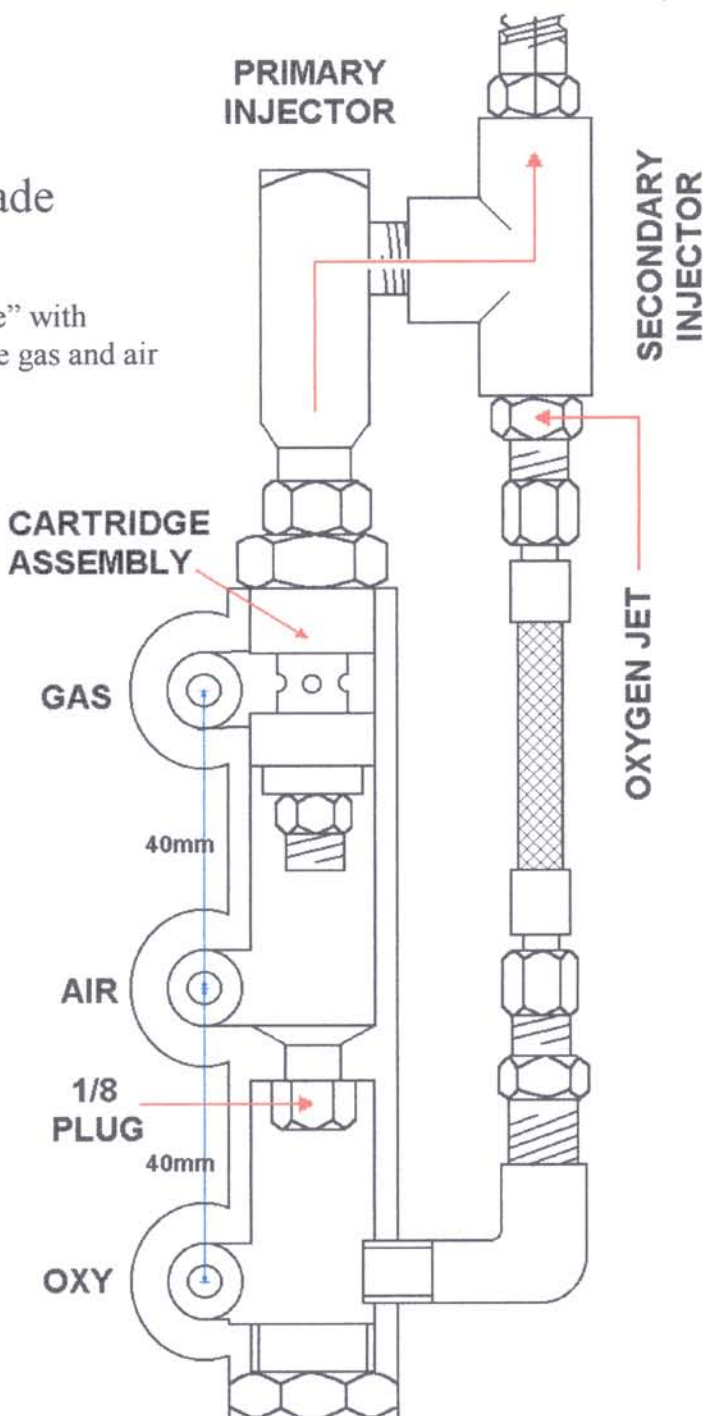
Triplex valve cascade

This shows a triplex valve "Cascade" with secondary mixing of oxygen into the gas and air mixture

These have been designed to control all types of gases from low to high pressures, and are recommended for regulating the flow of oxygen, air, propane, butane and natural gas.

These valves have interchangeable injectors dependant on the number of burners, type of burner, gas mixture and working flame shape.

Additional gauges can be fitted to give readings of air pressure, oxygen pressure and gas suction to make adjustments repeatable to previous settings.



JET/VENT CASCADE

Example; Primary jet/vent + secondary jet/vent

30/18 = No 30 air/No 18 primary outlet + 56/12 = No56 oxygen/No12 outlet

NVT 125 STD/STD/STD 30/18+56/12 1/8" BSP outlet

125 Needle Valve Assemblies



NV 125 (Straight)



NVA 125 (Angled)



125 Stem Assembly



125 Stem Assembly (EX)

Stock Number	Description	Thread Connection Size		Valve Orifice Size
		Inlet	Outlet	
29/01/009	NV 125	1/8 BSP	1/8 BSP	1/8
29/01/002	NV 125 EX	1/8 BSP	1/8 BSP	1/16
29/03/006	NV 125/250	1/4 BSP	1/4 BSP	1/8
29/03/009	NV 125/250 EX	1/4 BSP	1/4 BSP	1/16
29/02/006	NVA 125	1/8 BSP	1/8 BSP	1/8
29/02/019	NVA 125 EX	1/8 BSP	1/8 BSP	1/16
29/04/003	NVA 125/250	1/4 BSP	1/4 BSP	1/8
29/04/011	NVA 125/250 EX	1/4 BSP	1/4 BSP	1/16
29/04/014	NVA 125/250 XL	1/4 BSP	1/4 BSP	3/16

These come with Black (oxygen) numbered discs on the valve top, which can be changed for Blue (Air), Yellow (Gas) as required.



These have been designed to control all types of gases from low to high pressures, and are recommended for the regulating the flow of oxygen, air, propane, butane, natural gas, oil and water.

Angle or straight-through types are available as shown in the table. All valves have fine threads.



250 Needle Valve Assemblies



NV 250 (Straight)



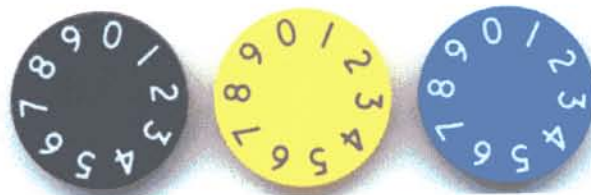
NVA 250 (Angled)



250 Stem assembly

Stock number	Description	Thread Connection Size		Valve Orifice Size
		Inlet	Outlet	
29/03/003	NV 250	1/4 BSP	1/4 BSP	3/16
29/04/005	NVA 250	1/4 BSP	1/4 BSP	3/16
29/05/005	NV 250/375	3/8 BSP	3/8 BSP	3/16
29/06/003	NVA 250/375	3/8 BSP	3/8 BSP	3/16
29/03/013	NV 250 XL	1/4 BSP	1/4 BSP	1/4
29/04/016	NVA 250 XL	1/4 BSP	1/4 BSP	1/4
29/05/010	NV 250/375 XL	3/8 BSP	3/8 BSP	1/4
29/06/008	NVA 250/375 XL	3/8 BSP	3/8 BSP	1/4

These come with Black (Oxygen) numbered discs on the valve top, which can be changed for Yellow (Gas) or Blue (Air) as required.



These have been designed to control all types of gases from low to high pressures, and are recommended for the regulating the flow of oxygen, air, propane, butane, natural gas, oil and water.

Angle or straight-through types are available as shown in the table. All valves have fine threads.

Stock No	Description

Injector/Needle Valve Assemblies

Duplex NVD Gas/Air or Gas/Oxygen					
NVD 125 1/8"bsp female inlets valve orifice sizes			NVD 250 1/4"bsp female inlets valve orifice sizes		
EX=1/16"dia (1.6mm) N° 53 STD 1=1/8"dia (3.1mm) N° 30 XL=3/16"dia (4.7mm) N° 12			STD 2=3/16"dia (4.7mm) N° 12 XL=1/4"dia (6.3mm) 'E'		
	GAS	AIR/OXY		GAS	AIR/OXY
NVD 125	EX	EX	NVD 250	STD	STD
NVD 125	STD	STD	NVD 250	XL	XL
NVD 125	EX	STD	NVD 250	STD	XL
NVD 125	STD	EX	NVD 250	XL	STD

JET/VENT SIZES OF INJECTOR

Example: 30/18 injector = N°30 jet size, and N°18 vent size.

NVD 125 EX/EX 65/56 1/8"bsp outlet.

NVD 250 STD/STD 30/18 1/4"bsp outlet.

Triplex NVT Gas/Air/Oxygen							
NVT 125 1/8"bsp female inlet valve orifice sizes				NVT 250 1/4"bsp female inlet valve orifice sizes			
EX=1/16"Dia (1.6mm) N° 53 STD 1=1/8"dia (3.1mm) N° 30 XL=3/16"dia (4.7mm) N° 12				STD 2=3/16"dia (4.7mm) N° 12 XL=1/4"dia (6.3mm) 'E'			
	GAS	AIR	OXY		GAS	AIR	OXY
NVT 125	EX	EX	EX	NVT 250	STD	STD	STD
NVT 125	STD	STD	STD	NVT 250	STD	STD	STD
NVT 125	EX	STD	EX	NVT 250	STD	STD	EX
NVT 125	STD	STD	EX				

***NOTE:** If STD 1 or EX used on NVT 250 then inlet remains 1/4"bsp, but valve as seat 125.

JET/VENT-INLINE

Example: Jet/Jet/Vent = the first jet is oxygen, the second jet is air, the vent is the outlet.

NVT 125 STD/STD/STD 56/25/14 1/8"bsp outlet

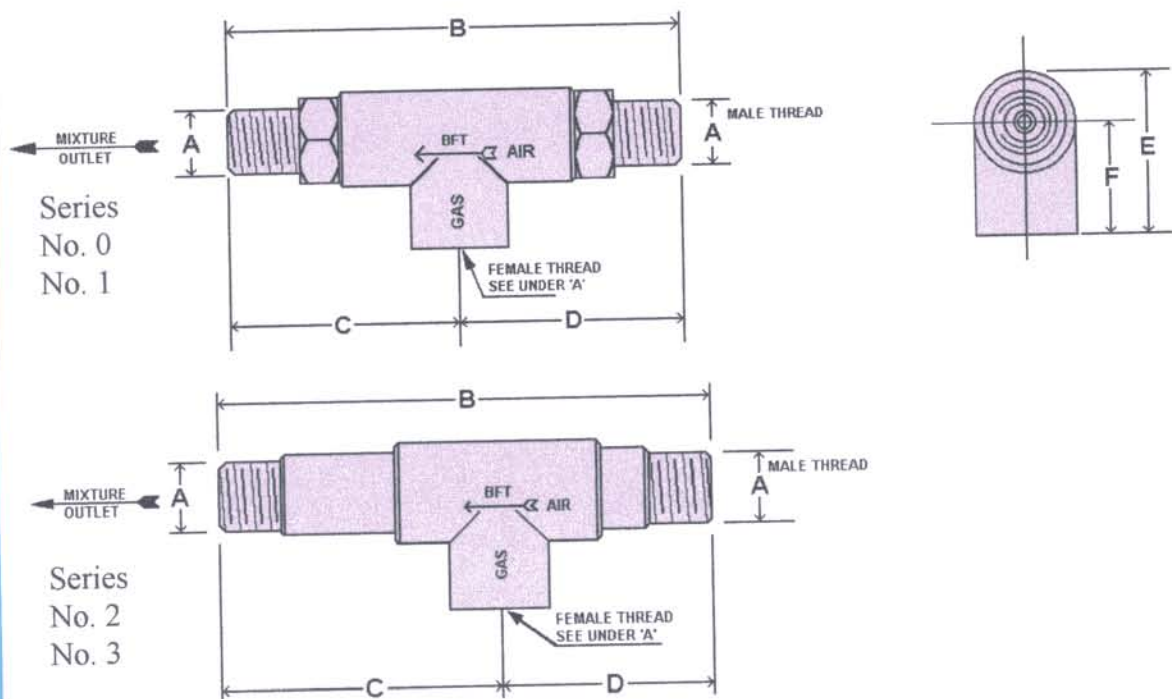
JET/VENT CASCADE

Example: Primary jet/vent + secondary jet/vent

30/18 = N°30 air/N°18 primary outlet + 56/12 = N°56 oxygen/N°12 outlet

NVT 125 STD/STD/STD 30/18+56/12 1/8"bsp outlet.

Injector Installation Chart



Injector Dimensions						
Series	A	B	C	D	E	F
No. 0	1/8 BSP	2.7/8	1.7/16	1.7/16	1.0	11/16
No. 1	1/8 BSP	2.7/8	1.7/16	1.7/16	1.0	11/16
No. 2	1/4 BSP	3.11/16	2.5/32	1.17/32	1.1/4	7/8
No. 3	3/8 BSP	4.1/4	2.5/8	1.5/8	1.11/16	1.5/32

Series 0-1

These small capacity 1/8 BSP injectors may be disassembled for cleaning purposes.

Series 2-3

These larger capacity injectors are brazed assemblies and should not be disassembled.