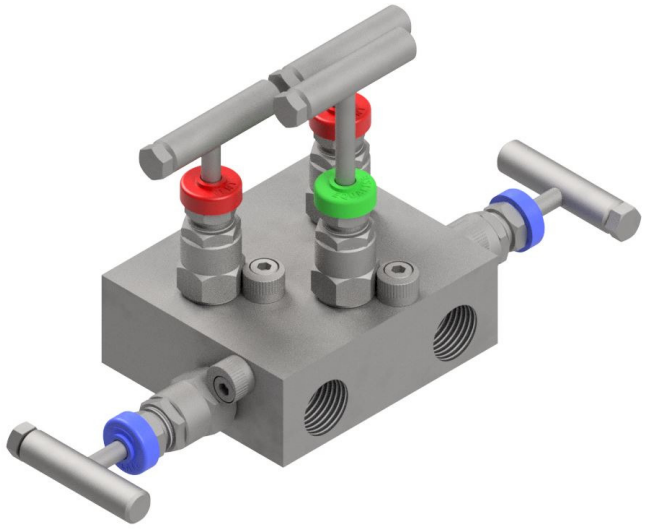
‘5VR’ SERIES NEEDLE MANIFOLD



5 Valve Needle Manifold 6,000 PSI

Remote mounted, pipe to pipe configuration five valve manifold. Offering two isolation valves, two vent valves and one equalising valve (see attached drawing). Used in differential pressure transmitters and static instrument applications. Standard 2 x 1/2" inlet x 2 x 1/2" outlet all on 54mm instrument centres with 2 x 1/4" vent port. Incorporating all the standard long service life features of the standard ‘N’ series needle valve, multi-ring piston style packing, back sealing facility. Mounting holes supplied as standard for wall or bracket mounting.

DESIGN FEATURES

• All valves have 2-piece non-rotating hardened (17-4PH) tips as standard.	• Temperature range -40°C to 230°C (427°C with GP option)
• Positive no slack stem action.	• Available in 316ss, Monel, Duplex, and other exotic materials.
• Bubble tight shut off.	• 54mm (2 1/8”) instrument centres.
• Vent porting in base for piping away (oil type only).	• Full material traceability.
• Metal to metal body bonnet seal for high pressure and high temperature use.	• Two valve configurations available (oil and gas).
• Unique bonnet locking cam.	• Repair / service kit available to extend field life further.
• Ingress seals fitted as standard.	• Materials of construction can be supplied to meet the requirements of NACE MR 0175.

IOM REFERENCE: 5VR-5-NVM-6K-O

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DIMENSIONS SHOWN ARE IN METRIC MM

REVISIONS

REV No.	DATE	DETAILS OF CHANGE	REV BY
1	06/05/2015	ISSUED	~~

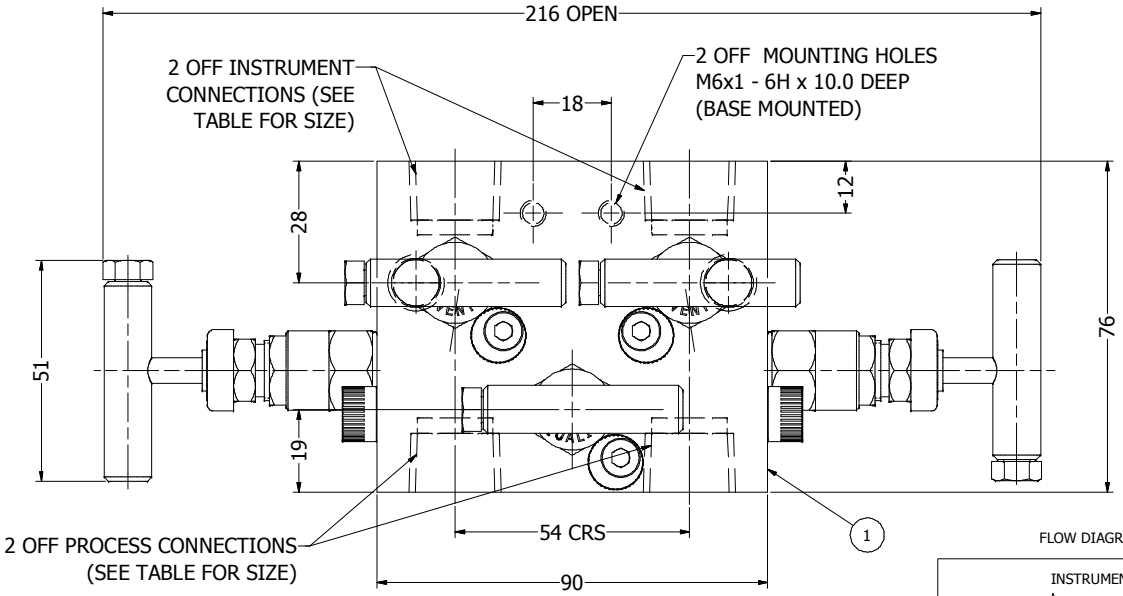
3rd Angle

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PRESSURE RATINGS ARE COLD WORKING, NON-SHOCK AND SUBJECT TO TEMPERATURE LIMITATIONS, UNLESS OTHERWISE STATED. PLEASE SEE SPECIFIC PRODUCT DATA

DIMENSIONS AND DESIGNS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

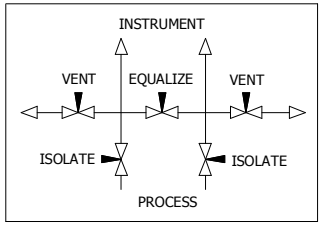
TYPICAL VALVE LAYOUT

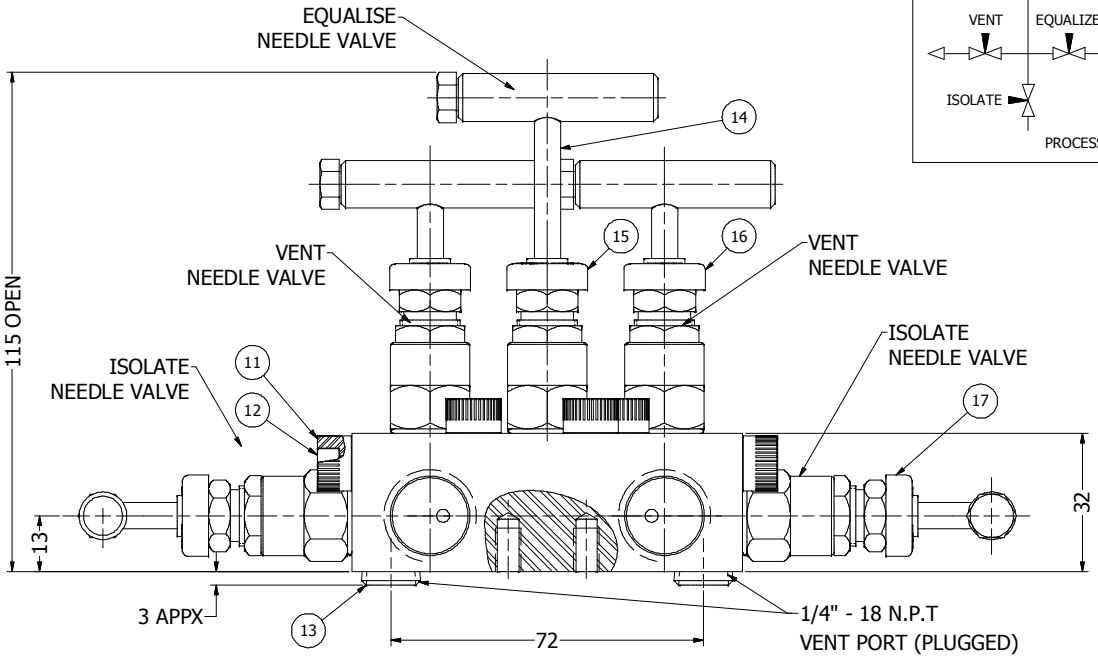


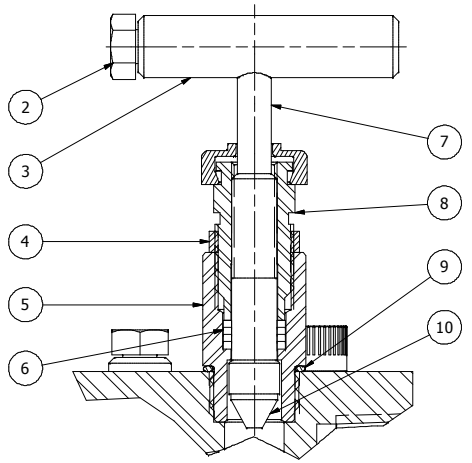
ITEM	DESCRIPTION	MATERIAL	QTY
1	VALVE BODY	A479 UNS S31600	1
2	HANDLE BOLT	A4 ST/ST	5
3	"T" HANDLE	UNS S31600	5
4	GLAND LOCKNUT	UNS S31600	5
5	BONNET HOUSING	A479 UNS S31600	5
6	PACKING	RTFE	20
7	NEEDLE STEM	A479 UNS S31600	4
8	GLAND ADJUSTER	UNS S31600	5
9	INGRESS SEAL	VITON	5
10	VALVE TIP	A564 UNS S17400	5
11	LOCKING CAM	UNS S31600	5
12	CAM SCREW	A4 ST/ST	5
13	BLANK PLUG	A479 UNS S31600	2
14	NEEDLE STEM (EXTENDED)	A479 UNS S31600	1
15	EQUALISE DUST CAP	PVC	1
16	VENT DUST CAP	PVC	1
17	ISOLATE DUST CAP	PVC	2

PART NUMBER	CONNECTION SIZE	BORE	WEIGHT
5VR4NS-O	1/2" NPT	3	2.1 Kg

FLOW DIAGRAM







Ø5mm BORE NEEDLE VALVE DETAILS

Alco Valves ®
Industrial Valve Manufacturers
Mission Works, Birds Royd Lane, Brighouse
West Yorkshire, HD6 1LQ - UK
Tel: 01484 710511 Fax: 01484 713009 Intl: ++44 1484 710511
Website: www.alco-valves.com e-mail: uk@alco-valves.com

TITLE: 1/2" NPT FEMALE PROCESS x 1/2" NPT FEMALE INSTRUMENT
'5VR' SERIES REMOTE NEEDLE MANIFOLD IN 316 ST/ST MATERIAL
OIL TYPE CONFIGURATION. 'T'-BAR HANDLE. RATED 6,000psi.

SCALE: N.T.S.

DATE: 06/05/2015

DRAWING NUMBER	DRWN	C.L.	CHKD	S.R.	APRD	J.H.
5VR#NS-O TABULATED	REVISION No.	1				

IOM REFERENCE: 5VR-5-NVM-6K-G

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1	06/05/2015	ISSUED	~~

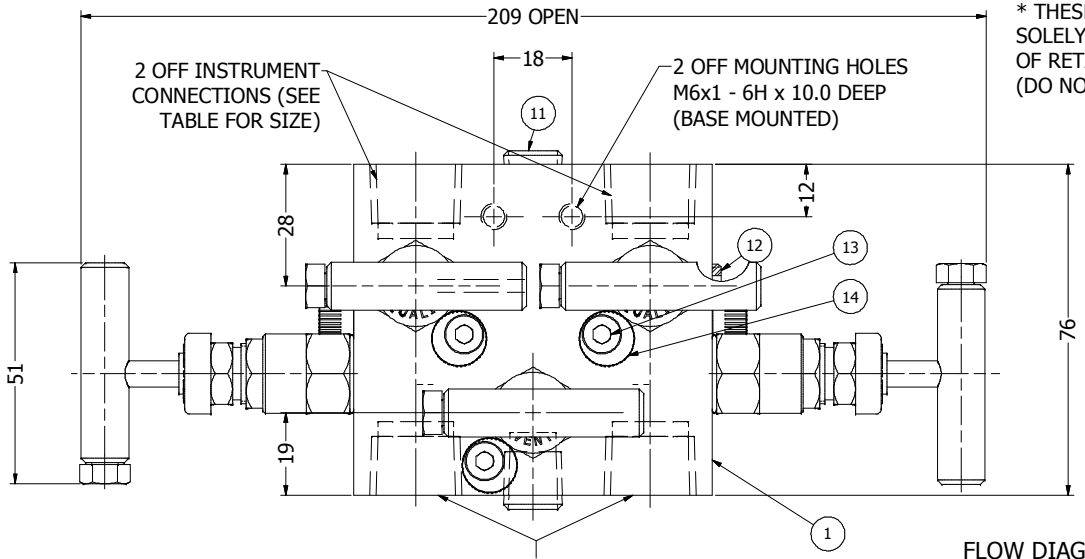
3rd Angle

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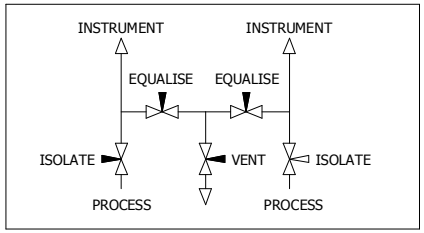
TYPICAL VALVE LAYOUT



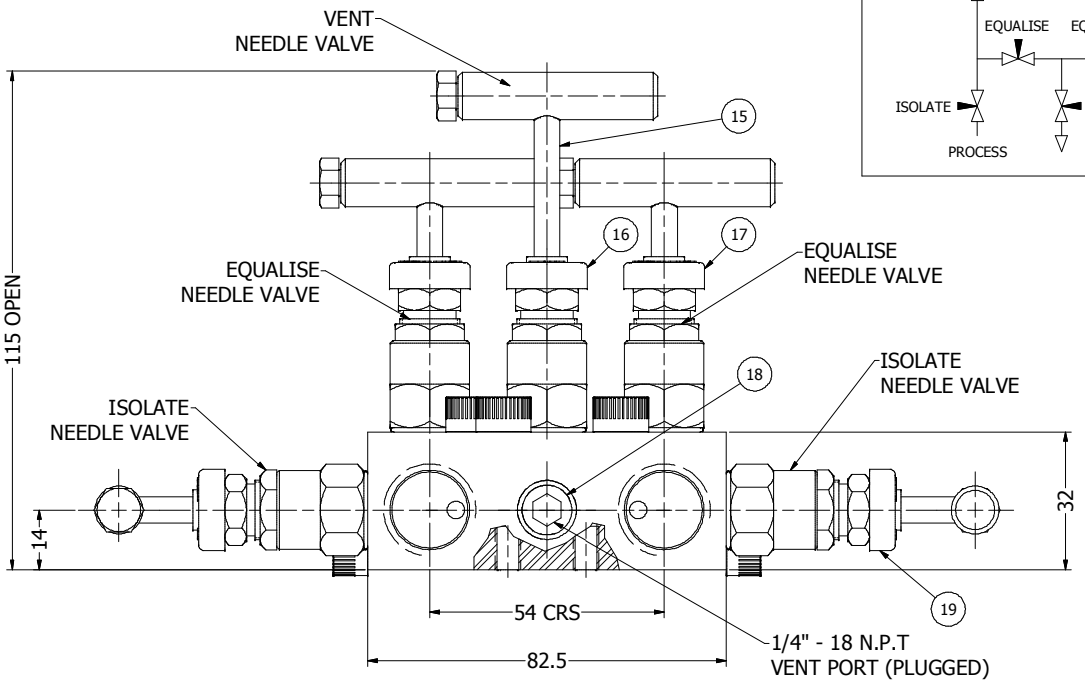
* THESE PLUGS ARE USED SOLELY FOR THE PURPOSE OF RETAINING PRESSURE (DO NOT REMOVE)

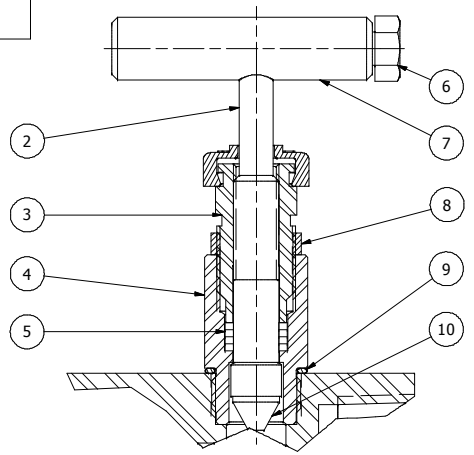
ITEM	DESCRIPTION	MATERIAL	QTY	*
1	VALVE BODY	A479 UNS S31600	1	
2	NEEDLE STEM	A479 UNS S31600	4	
3	GLAND ADJUSTER	UNS S31600	5	
4	BONNET HOUSING	A479 UNS S31600	5	
5	PACKING	RTFE	20	
6	HANDLE BOLT	A4 ST/ST	5	
7	"T" HANDLE	UNS S31600	5	
8	GLAND LOCKNUT	UNS S31600	5	
9	INGRESS SEAL	VITON	5	
10	VALVE TIP	A564 UNS S17400	5	
11	1/4" NPT BLANK PLUG	A479 UNS S31600	2	*
12	1/8" NPT BLANK PLUG	A479 UNS S31600	1	*
13	CAM SCREW	A4 ST/ST	5	
14	LOCKING CAM	UNS S31600	5	
15	NEEDLE STEM (EXT)	A479 UNS S31600	1	
16	VENT DUST CAP	PVC	1	
17	EQUALISE DUST CAP	PVC	2	
18	1/4" NPT VENT PLUG	A479 UNS S31600	1	
19	ISOLATE DUST CAP	PVC	2	

FLOW DIAGRAM



PART NUMBER	CONNECTION SIZE	BORE	WEIGHT
5VR4NS-G	1/2" NPT	4	1.9 Kg





Ø5mm BORE NEEDLE VALVE DETAILS

Alco Valves ®
Industrial Valve Manufacturers
Mission Works, Birds Royd Lane, Brighouse
West Yorkshire, HD6 1LQ - UK
Tel: 01484 710511 Fax: 01484 713009 Intl: ++44 1484 710511
Website: www.alco-valves.com e-mail: uk@alco-valves.com

TITLE: 1/2" NPT FEMALE PROCESS x 1/2" NPT FEMALE INSTRUMENT '5VR' SERIES REMOTE NEEDLE MANIFOLD IN 316 ST/ST MATERIAL GAS TYPE CONFIGURATION. 'T'-BAR HANDLE. RATED 6,000psi.

SCALE: N.T.S.

DATE: 06/05/2015

DRAWING NUMBER	DRWN	C.L.	CHKD	I.M.	APRD	J.H.
5VR#NS-G TABULATED	REVISION No. 1					