

WINTERS INSTRUMENTS

DIN EN ISO 9001/2000
ASME B31.1 & ASME B31.3
CSA B51-03 Pending
ATEX PED 97/23EC (CE0035)
ASME VIII Div I UG 101(m)(1)

CE0035

Table 2

E	=	Sched 5S
F	=	Sched 10S
G	=	Sched 40S
H	=	Sched 80S
J	=	Sched 160S
Z	=	Sched XXS

Codification Chart for Two/Three/Five Valve Manifolds



Mounting Variations

A	=	2 or 3 way Remote Mount (no Bleed option for R3/A).	R & W
AR	=	2 Way Remote Mount - Reversed.	R & W
B	=	5 Way Manifold	
C	=	2, 3 or 5 way with narrow outlet.	R
D	=	3 Way Direct Mount.	R
E	=	3 Way Flange x Flange IOA (no bleed option).	R
F	=	2, 3 or 5 Way Flat Pack.	R & W
FR	=	5 Way Flat Pack, bottom entry. Inlet & Outlet 90 to one another.	W
FRW	=	5 Way Flat Pack, bottom entry. Metering Style, Double Equalize.	W
G	=	5 Way Remote Manifold with Top Mounted Bonnets.	W
H	=	2, 3 & 5 Way, H section. Add -K for kidney flange inlet (i.e. R3/HKTHXX).	R
L	=	2, 3 & 5 Way Enclosure Mounted, bottom entry.	R
P	=	2 & 3 way horizontal Remote Mount	R & W
R	=	3 & 5 Way, horizontal Remote Mount, DP Valves - 54 mm Centres.	R & W
RR	=	Reversed 2 Way, horizontal Remote Mount.	W
S	=	3 Way Pipe to Flange (Wide Body with 40 mm inlets)(3 Way Direct Mount - Flat Pack)	R
S1	=	3 Way Pipe to Flange (Wide Body with 40 mm inlets)(3 Way Rear Pole Manifold)	R
T	=	2, 3 & 5 Way, Tee Section. (DP manifolds - 54 mm inlet).	R
W	=	5 Way Direct Mount-Flow Valve	W
HK	=	3 & 5 Way H Section +Bracket Direct Mount	W

Manifold Type

2	=	2 Valve Manifold
3	=	3 Valve Manifold
5	=	5 Valve Manifold

Stuffing Box & Flange Seals

T	=	PTFE
G	=	Graphite

Anti-tamper Options

X	=	All T Bars
Z	=	Special requests

Bleed Size

X	=	No bleed, no vent
4	=	1/4" NPT
0	=	One bleed
D	=	Two bleeds

Material of Construction

S	=	316 SS
L	=	316L SS
E	=	316L SS NACE MR 01-75 standard
H	=	Hastelloy C
M	=	Monel 400
N	=	Inconel 718
Z	=	Special requests

Option

0	=	None
OX	=	Oxygen Clean
P	=	Panel Mounting

Manufacturer Identification

W	=	Square Valves
R	=	Circular Valves (Option)

Process Connection

F	=	Female Connection
S	=	Socket Weld
B	=	Butt Weld
Z	=	See Table 2 for Weld on ends.

Process Connection Size

2	=	1/2"
Z	=	Special size
G after the size denotes BS parallel threading. For the weld end codes see Table 2.		

Instrument Connection

W	=	Female Connection
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Process Connection Thread Size

N	=	NPT
G	=	G
B	=	BSP
T	=	BSPT

Instrument Connection Size

2	=	1/2"
Z	=	Special Size

Instruments Connection Thread Size

N	=	NPT
G	=	G
B	=	BSP
T	=	BSPT

Note: Instrument connection and process connection with same connection

Bleed Requirement

A	=	No bleed, no vent
C	=	One bleed + one plug
D	=	Two bleeds + two plugs

W 3 F T F 4 G W 2 G A 0 X L OX

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WINTERS INSTRUMENTS - Codification Chart for Transmitt

	A1 = 2 or 3 way Remote Mount (no Bleed option for N3/A). -2 Way Remote Mount 90° Valves	R&W
	A2 = 2 or 3 way Remote Mount (no Bleed option for N3/A). -2 Way Remote Mount Manifold	R&W
	A3 = 2 or 3 way Remote Mount (no Bleed option for N3/A). -3 Way Remote Mount	R&W
	AR1 = 2 Way Remote Mount - Reversed. -2 Way Remote Mount 90° Valves	R&W
	B1 = 5 Way Manifold -3 Way D/M-Head Mount Bonnets	R
	B2 = 5 Way Manifold -5 Way Direct Mount	R
	C1 = 2, 3 or 5 way with narrow outlet. -3 Way Direct Mount	R
	C2 = 2, 3 or 5 way with narrow outlet. -3 Way Direct Mount	R
	D1 = 3 Way Direct Mount. -5 Way Direct Mount-Bottom Entry	R
	D2 = 3 Way Direct Mount. -2 Way Direct Mount	R
	D3 = 3 Way Direct Mount. -3 Way Direct Mount	R
	D = 3 Way Direct Mount. -3 Way T or bar Avg Pitot Manifold	R
	E = 3 Way Flange x Flange IOA (no bleed option). -2 Way H Section	R

Mounting Variations		
A	= 2 or 3 way Remote Mount (no Bleed option for R3/A).	R & W
AR	= 2 Way Remote Mount - Reversed.	R & W
B	= 5 Way Manifold	R
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D	= 3 Way Direct Mount.	R
E	= 3 Way Flange x Flange IOA (no bleed option).	R & W
F	= 2, 3 or 5 Way Flat Pack.	W
FR	= 5 Way Flat Pack, bottom entry. Inlet & Outlet 90 to one another.	W
FRW	= 5 Way Flat Pack, bottom entry. Metering Style, Double Equalize.	W
G	= 5 Way Remote Manifold with Top Mounted Bonnets.	W
H	= 2, 3 & 5 Way, H section. Add -K for kidney flange inlet (i.e. R3/HKTHXX).	R
L	= 2, 3 & 5 Way Enclosure Mounted, bottom entry.	R
P	= 2 & 3 way horizontal Remote Mount	R & W
R	= 3 & 5 Way, horizontal Remote Mount. DP Valves - 54 mm Centres.	R & W
RR	= Reversed 2 Way, horizontal Remote Mount.	W
S	= 3 Way Pipe to Flange (Wide Body with 40 mm inlets)(3 Way Direct Mount - Flat Pack)	R
S1	= 3 Way Pipe to Flange (Wide Body with 40 mm inlets)(3 Way Rear Pole Manifold)	R
T	= 2, 3 & 5 Way. Tee Section. (DP manifolds - 54 mm inlet).	R
W	= 5 Way Direct Mount-Flow Vale	W
HK	= 3 & 5 Way H Section +Bracket Direct Mount	W

	F1 = 2, 3 or 5 Way Flat Pack. -2 Way Direct Mount Flat Pack	R&W
	F2 = 2, 3 or 5 Way Flat Pack. -3 Way Direct Mount Manifold	R&W
	F3 = 2, 3 or 5 Way Flat Pack. -5 Way Direct Mount	R&W
	F4 = 2, 3 or 5 Way Flat Pack. -2 Way Flat Pack Direct Mount	R&W
	F5 = 2, 3 or 5 Way Flat Pack. -2 Way H Section	R&W
	F6 = 2, 3 or 5 Way Flat Pack. -2 Way H Section	R&W
	F7 = 2, 3 or 5 Way Flat Pack. -3 Way Direct Mount C/W Weld Nipples	R&W
	F8 = 2, 3 or 5 Way Flat Pack. -5 Way Direct Mount	R&W

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(Continued from the previous page)

Ordering Code W2 / W3 / W5 Series

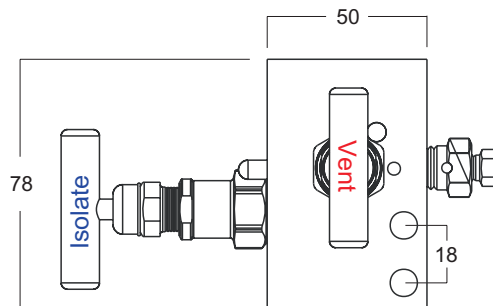
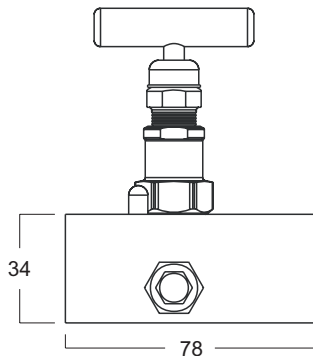
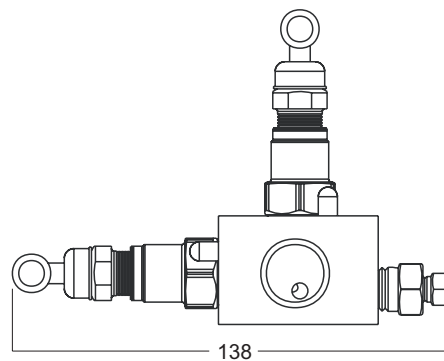
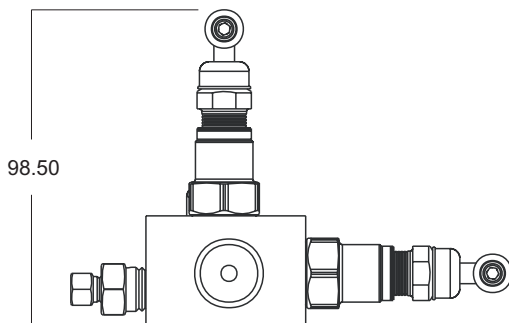
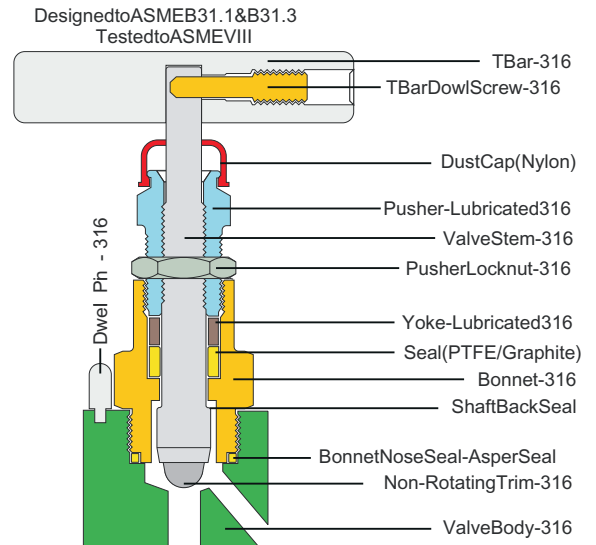
WINTERS INSTRUMENTS - Codification Chart for Transmitt

	F = 2, 3 or 5 Way Flat Pack. -5 Way Direct Mount-Upstream Vent	R&W		S = 3 Way Pipe to Flange (Wide Body with 40 mm inlets) -3 Way Direct Mount - Flat Pack	R
	G1 = 5 Way Remote Manifold with Top Mounted Bonnets. -3 Way Remote-Top Mount Bonnets	W		S = 3 Way Pipe to Flange (Wide Body with 40 mm inlets) -3 Way Direct Mount - Flat Pack	R
	G2 = 5 Way Remote Manifold with Top Mounted Bonnets. -5 Way Remote-Top Mount Bonnets	W		S1 = 3 Way Pipe to Flange (Wide Body with 40 mm inlets)(3 Way Rear Pole Manifold) -3 Way Rear Pole Manifold	R
	H = 2, 3 & 5 Way, H section. Add -K for kidney flange inlet (i.e. P3/HKTHXX). -2 Way H Section	R		T1 = 2, 3 & 5 Way, Tee Section. (DP manifolds - 54 mm inlet). -2 Way T Section Manifold	R
	L1 = 2, 3 & 5 Way Enclosure Mounted, bottom entry. -Enclosure Mounting 2 Way	R		T2 = 2, 3 & 5 Way, Tee Section. (DP manifolds - 54 mm inlet). -2 Way T Section-Upstream Vents	R
	L2 = 2, 3 & 5 Way Enclosure Mounted, bottom entry. -3 Way Enclosure Mount	R		T3 = 2, 3 & 5 Way, Tee Section. (DP manifolds - 54 mm inlet). -3 Way T Section	R
	L3 = 2, 3 & 5 Way Enclosure Mounted, bottom entry. -3 Way Enclosure Mount	R		T4 = 2, 3 & 5 Way, Tee Section. (DP manifolds - 54 mm inlet). -5 Way H Section Direct Mount	R
	P1 = 2 & 3 way horizontal Remote Mount -2 Way Top Mounted Bonnets	R&W		T5 = 2, 3 & 5 Way, Tee Section. (DP manifolds - 54 mm inlet). -5 Way T Section-Upstream Vent	R
	P2 = 2 & 3 way horizontal Remote Mount -3 Way Remote Mount Manifold	R&W		T6 = 2, 3 & 5 Way, Tee Section. (DP manifolds - 54 mm inlet). -5 Way-Up stream Vent-D/S Bleeds	R
	R1 = 3 & 5 Way, horizontal Remote Mount. DP Valves - 54 mm Centres. -3 Way Remote Mount Manifold	R&W		w = 5 Way Direct Mount-Flow Valve	W
	R2 = 3 & 5 Way, horizontal Remote Mount. DP Valves - 54 mm Centres. -2 Way Remote Mount	R&W		HK1 = 3 Way H Section	W
	R3 = 3 & 5 Way, horizontal Remote Mount. DP Valves - 54 mm Centres. -3 Way Remote Mount	R&W		HK2 = 3 Way H Section +Bracket	W
	R4 = 3 & 5 Way, horizontal Remote Mount. DP Valves - 54 mm Centres. -5 Way Remote Mount	R&W		HK3 = 3 Way H Section Direct Mount	W
	RR = Reversed 2 Way, horizontal Remote Mount. -Reversed 2 Way Remote Mount	W			

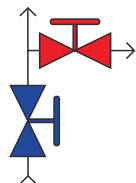
W
CE0035

W2 / W3 / W5 Series Valve Manifolds

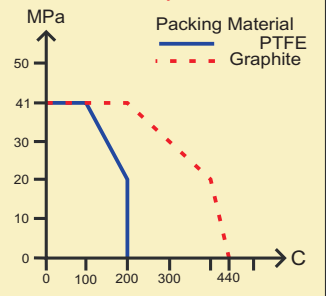
Valveheads positively anchored
Fully articulated back-sealing shaft
Dual, pressure activated, stuffing boxes
Anti-blowout shaft with full process isolation
Bubble tight seal guaranteed on liquid & gases
DIN EN ISO 9001:2000 CSA Pending



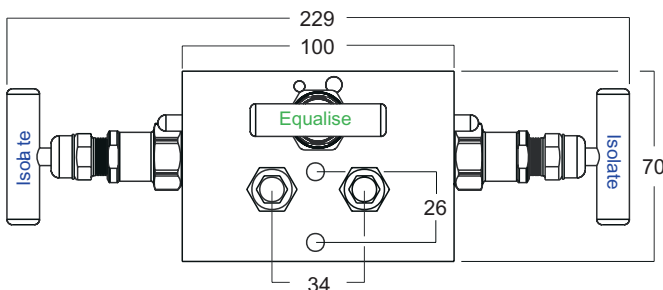
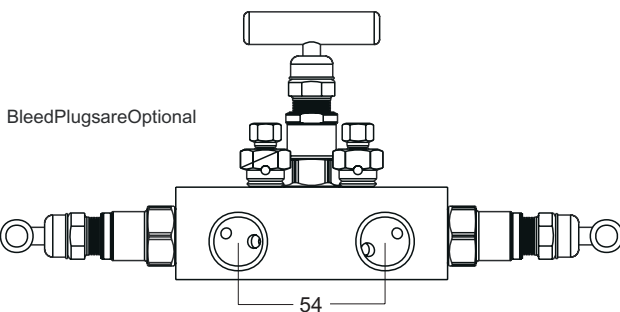
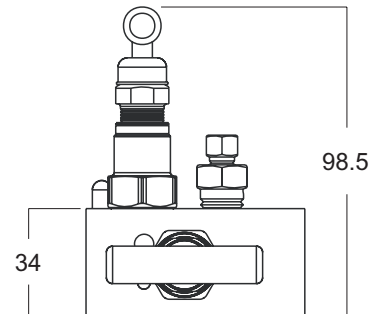
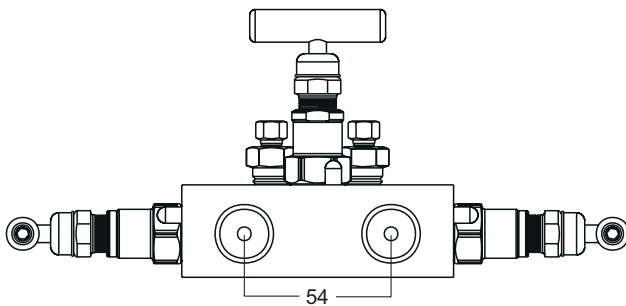
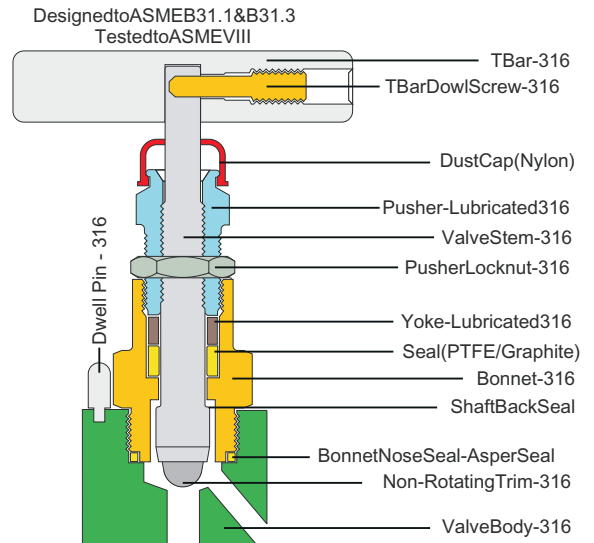
Valve Logic Diagram



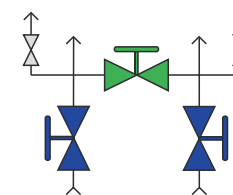
Pressure vs Temperature
316 Valves - Safety Factor 4:1



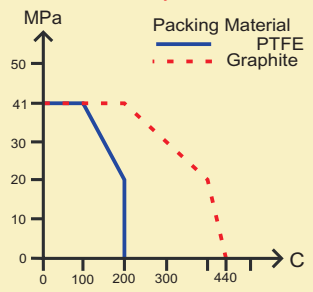
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DIN EN ISO 9001:2000 CSA Pending



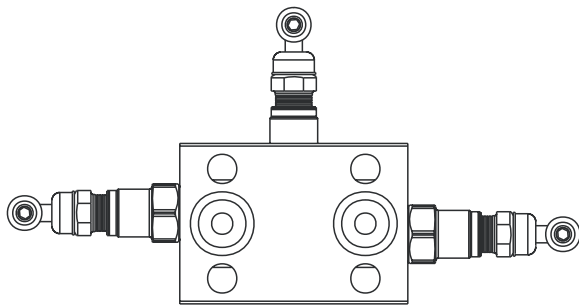
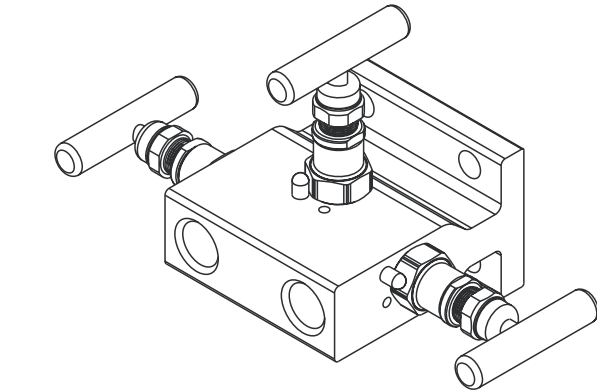
Valve Logic Diagram



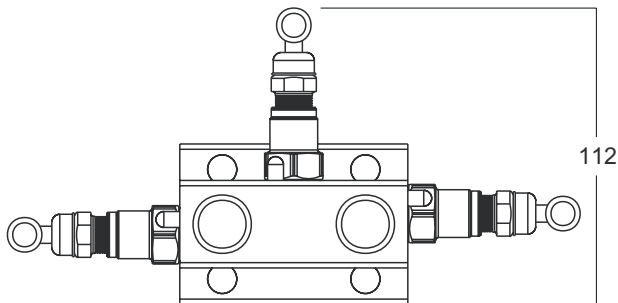
Pressure vs Temperature
316 Valves - Safety Factor 4:1



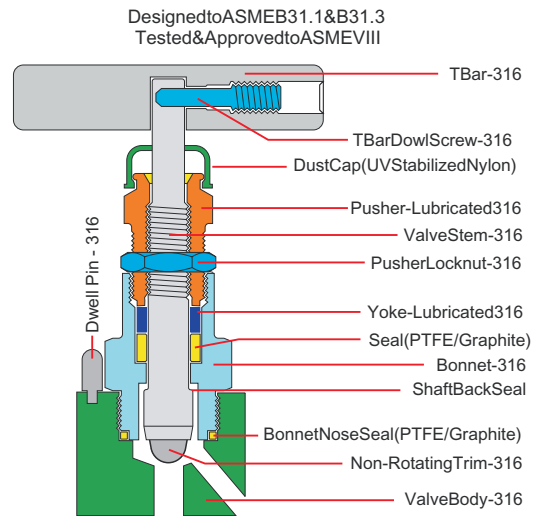
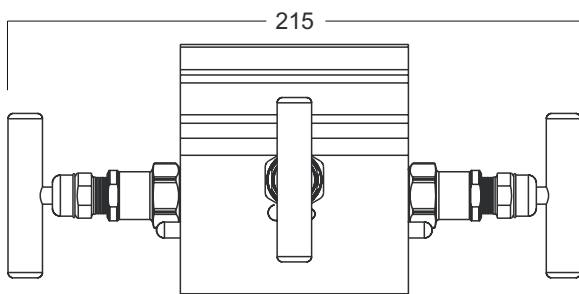
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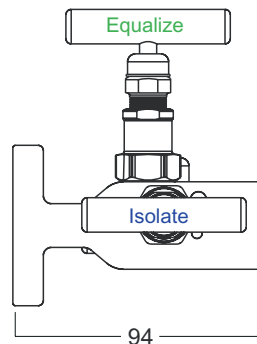
Outlet-"O"Rings
Distance between centres: 54x41.3mm



Inlet-Screwed 1/2"NPT
Distance between centres: 54mm
2" Pipe Bracket Mounting Holes M8x14mm Apart

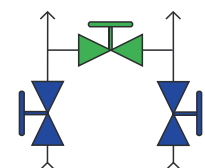


4 Times Over Pressure Safety Margin

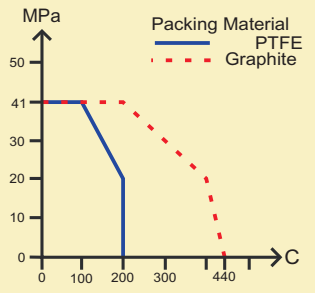


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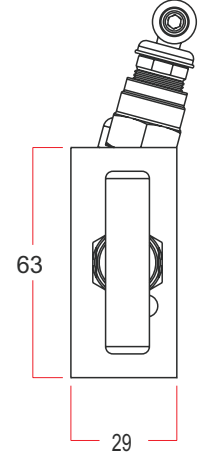
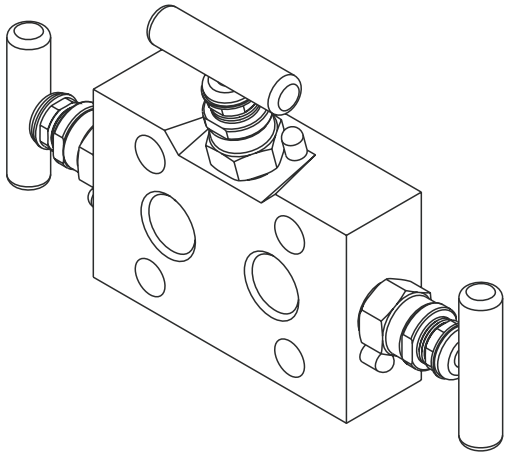
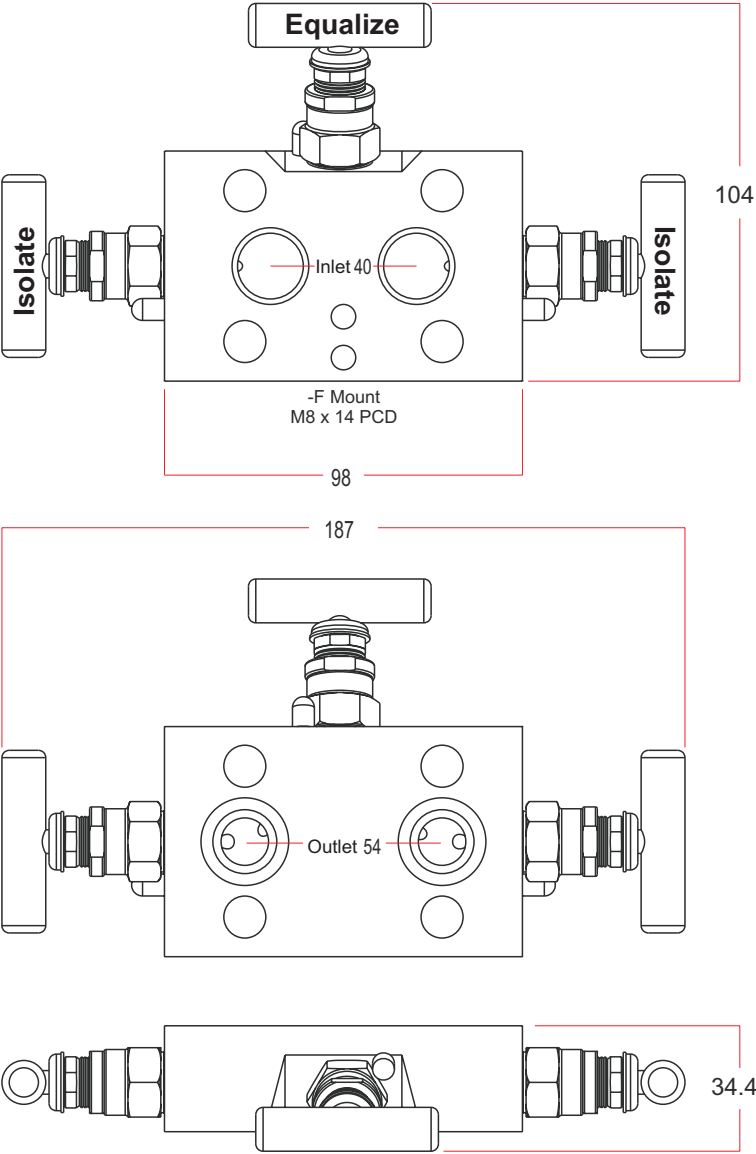
Valve Logic Diagram



Pressure vs Temperature
316 Valves - Safety Factor 4:1



Unit : mm



Outlet : 41.3 x 54 mm 'O' Rings

Notes

WINTERS INSTRUMENTS valves are available in Austenitic and Carbon Steel. The WINTERS INSTRUMENTS **Valvehead** offers :-

- Valveheads Positively Anchored
- Fully Articulated Back-sealing Shaft
- Anti-blowout Shaft with Full Process Isolation
- Bubble Tight Seal Guaranteed on Liquids & Gases

Marking

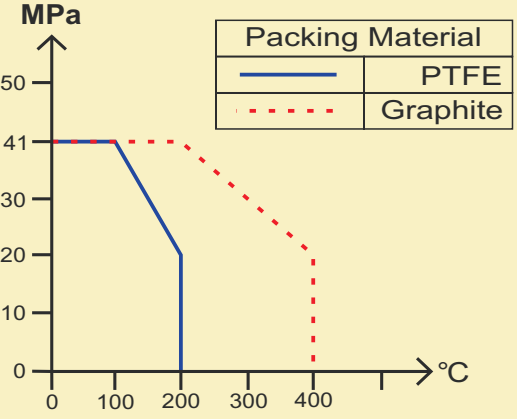
- Manufacturer
- Flow Schematic
- Operating Limits
- Colour Coded Dust Caps
- All Element Traceability & Materials of Construction

Design Criteria

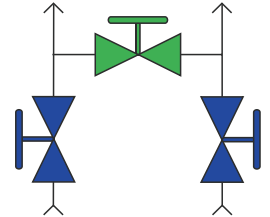
WINTERS INSTRUMENTS is manufactured under the supervision of DIN EN ISO 9001:2000. All valves have an Over Pressure Safety margin of 1.5 times.

Pressure rating, see graph. **WINTERS INSTRUMENTS** Pushers are grey in colour because they are coated with alubricant

**Pressure vs Temperature
Safety Factor : Bonnet & Trim - 2**



Valve Logic Diagram



Rev : 0

Title : 3 Way Direct Mount

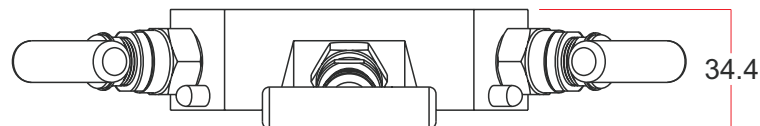
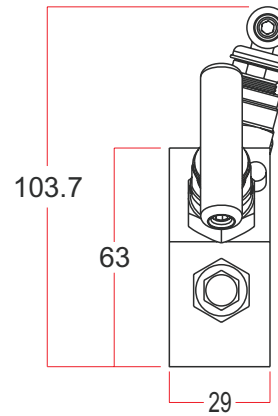
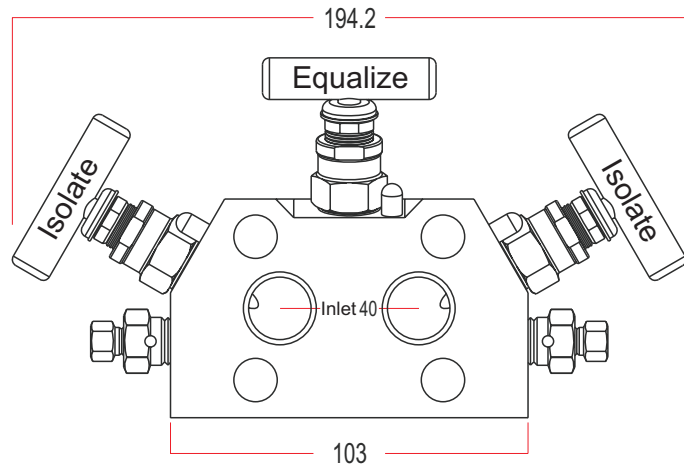
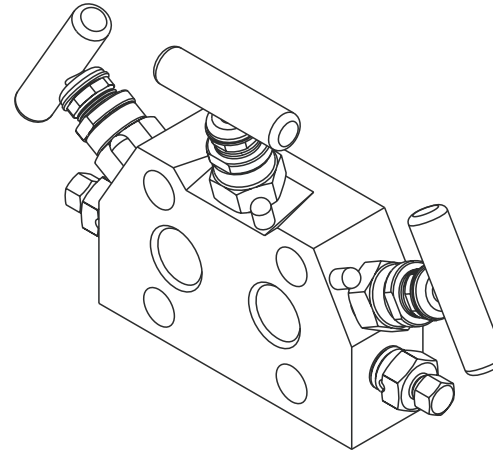
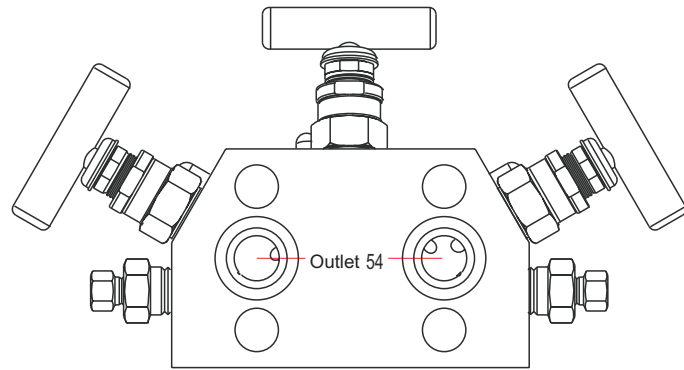
Weight : TBA

Part No : W3/F2TF2NW2NSXX



DIN EN ISO 9001:2000
WINTERS INSTRUMENTS
Design : MSS-SP-99
Testing : ASME VIII

Unit : mm



Notes

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Anti-blowout Shaft with Full Process Isolation
Bubble Tight Seal Guaranteed on Liquids & Gases

Marking

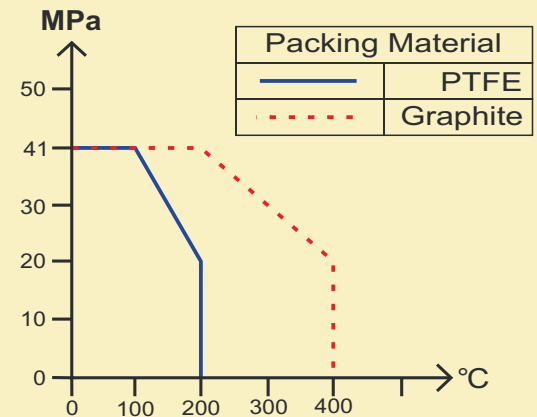
Manufacturer
Flow Schematic
Operating Limits
Colour Coded Dust Caps
All Element Traceability & Materials of Construction

Design Criteria

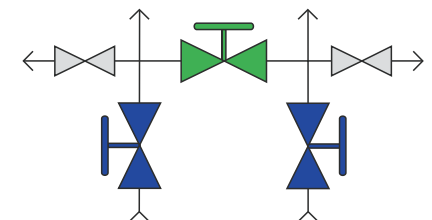
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Pressure rating, see graph. **WINTERS INSTRUMENTS** Pushers are grey in colour because they are coated with alubricant

Pressure vs Temperature Safety Factor : Bonnet & Trim - 2



Valve Logic Diagram



Outlet : 41.3 x 54 mm 'O' Rings

Rev : 1

Title : 3 Way Direct Mount

Weight : TBA

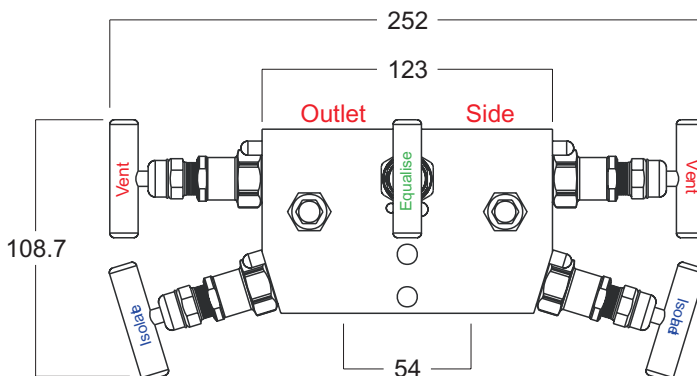
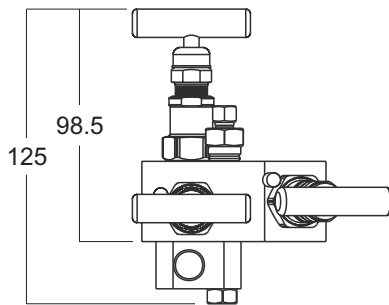
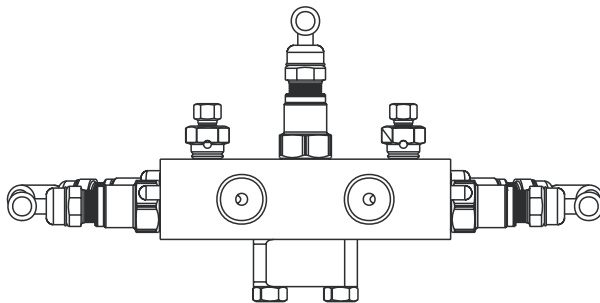
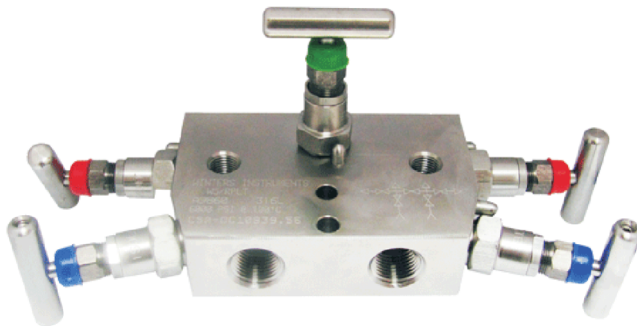
Part No : W3F2TF2NW2ND4XSO



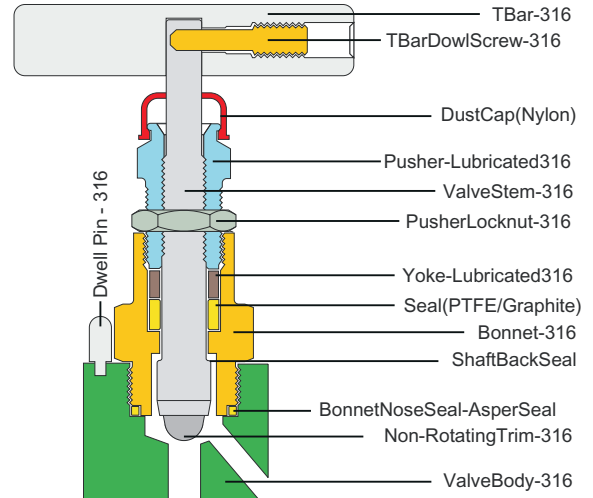
DIN EN ISO 9001:2000
WINTERS INSTRUMENTS
Design : MSS-SP-99
Testing : ASME VIII

Specifications are subject to modification without prior notification

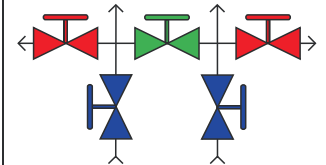
Valveheads positively anchored
Fully articulated back-sealing shaft
Dual, pressure activated, stuffing boxes
Anti-blowout shaft with full process isolation
Bubble tight seal guaranteed on liquid & gases
DIN EN ISO 9001:2000 CSA Pending



Designed to ASME B31.1 & B31.3
Tested to ASME VIII



Valve Logic Diagram



Pressure vs Temperature
316 Valves - Safety Factor 4:1

