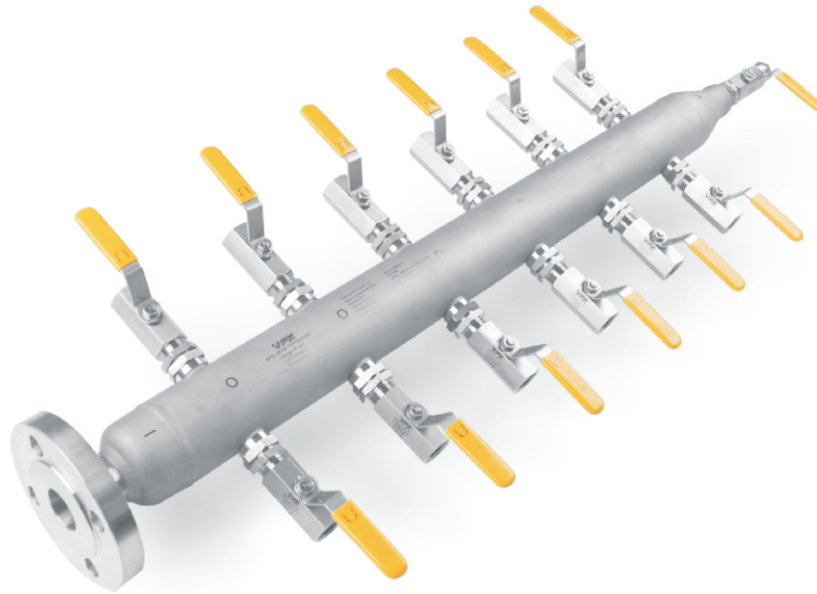
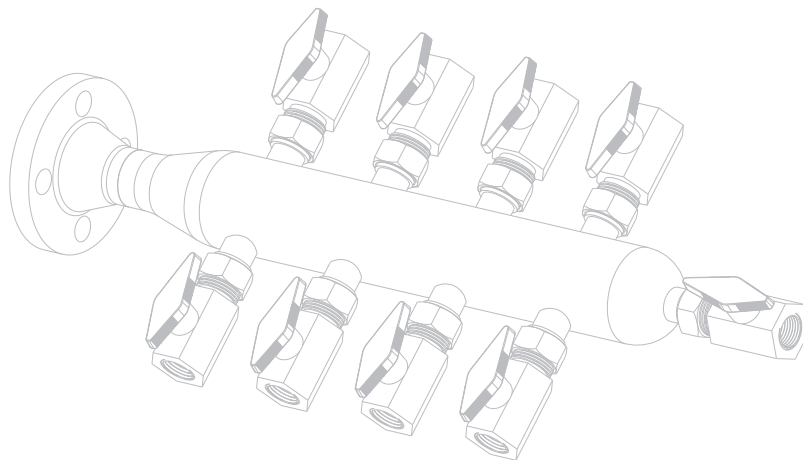


Air Headers and Distribution Manifolds



Climate Control
Electromechanical
Filtration
Fluid & Gas Handling
Hydraulics
Process Control
Sealing & Shielding





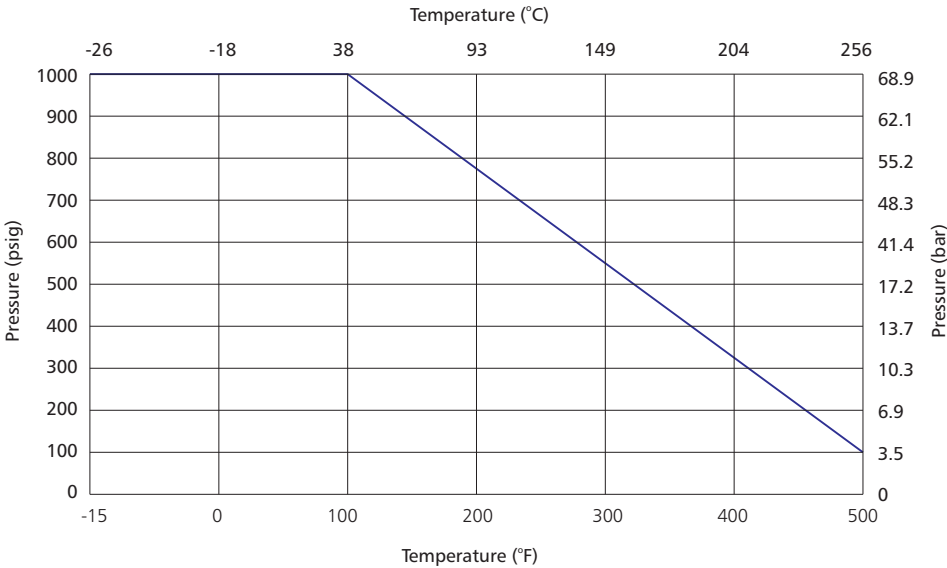
Features

- Distribution lines available upon request.
- Ball valve , plug valve, needle valve available for distribution lines and drain port.
- Color coded handles available.
- Pressures up to 1000 psig (68.9 bar).
- Temperatures up to 450° F (232° C) with PTFE packing.
- Leak-tight performance testing for every valve with nitrogen at the maximum working pressure.
- Every valve is 100% factory tested with nitrogen.

Pressure vs. Temperature

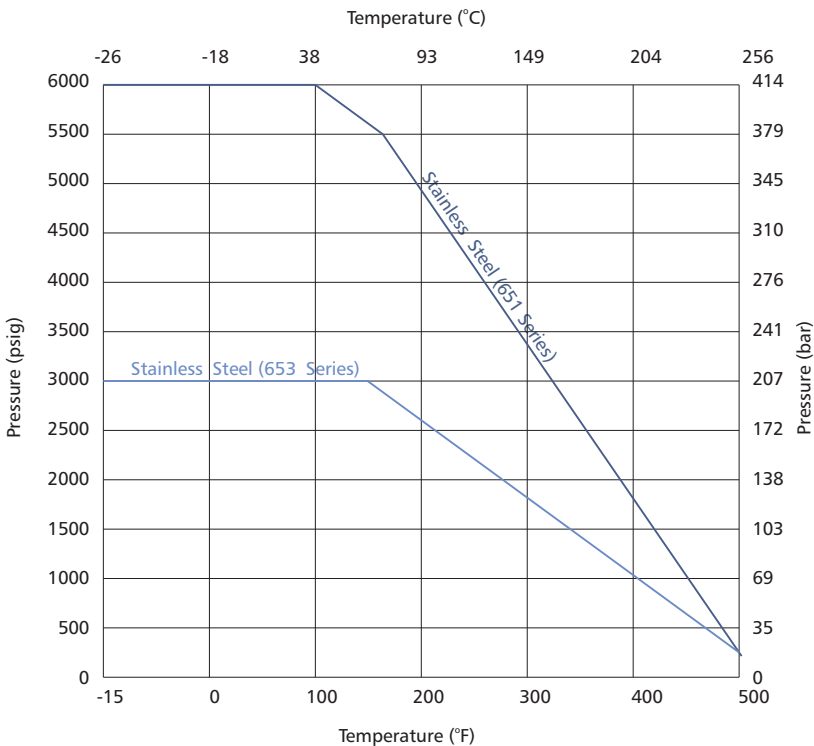
Air Headers

65 Series

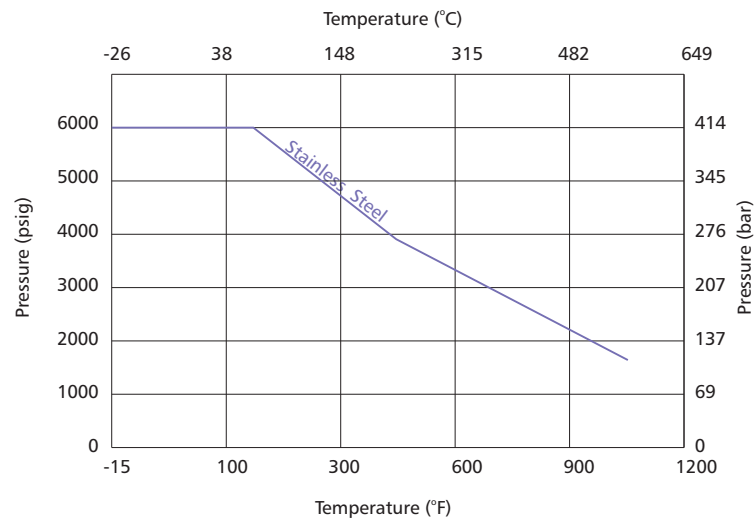


Distribution Manifolds

651 and 653 Series



652 Series



End Connections

65, 651, 653 Series

Part	Type	Size	Standard
Inlet Connection	Pipe Butt Welded	3/4, 1, 1 1/2, 2, 2 1/2, 3, 4	ASME 16.25
	Pipe Socket Welded		ASME 16.11
	Female NPT		ASME B 1.20.1, GB/T 12716
	Female BSP Tapered		ISO 7/1, DIN 2999, GB/T 7306.2
	Female BSP Parallel		ISO 228-1, DIN 3852, GB/T 7307
	Flange	ANSI B 16.5	
		DN20, DN25, DN32, DN40, DN50, DN65, DN80	ASME B16.5, GB/T 9115.1, DIN 2634
Outlet Connection	Female NPT	1/4, 3/8, 1/2, 3/4 , 1	ASME B 1.20.1, GB/T 12716
	Male NPT		ISO 7/1, DIN 2999, GB/T 7306.2
	Female BSP Tapered		
	Male BSP Tapered		ISO 228-1, DIN 3852, GB/T 7307
	Female BSP Parallel		
	Male BSP Parallel	M6 x 1, M10 x 1, M12 x 1.5, M14 x 1.5, M16 x 1.5, M20 x 1.5, M24 x 1.5, M27 x 2	ISO 261, GB/T 196
	Female ISO 261		VFK Tube Fitting
	Male ISO 261	————	
	Fractional Tube Fitting	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4	————
	Nut+Gasket+Fractional bulge Nipple		————
	Nut+Gasket+Metric Bulge Nipple	6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 16 mm, 18 mm, 20 mm, 22 mm, 25 mm	VFK Tube Fitting
	Metric Tube Fitting		
Drain Connection	Female NPT	1/2, 3/4 , 1	ASME B 1.20.1, GB/T 12716
	Male NPT		ISO 7/1, DIN 2999, GB/T 7306.2
	Female BSP Tapered		
	Male BSP Tapered		ISO 228-1, DIN 3852, GB/T 7307
	Female BSP Parallel		
	Male BSP Parallel	M10 x 1, M16 x 1.5, M20 x 1.5, M24 x 1.5	ISO 261, GB/T 196
	Female ISO 261		VFK Tube Fitting
	Male ISO 261	1/2, 3/4, 1	
	Fractional Tube Fitting	10 mm, 14 mm, 20 mm, 25 mm	
	Metric Tube Fitting		

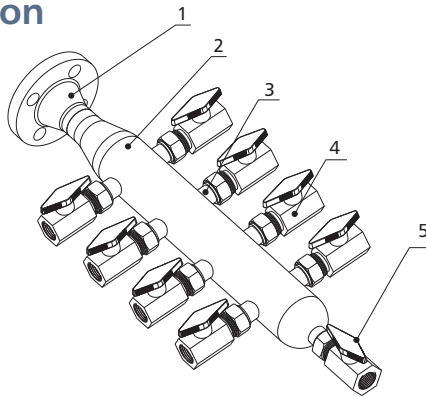
652 Series

Part	Type	Size	Standard
Inlet Connection	Pipe Butt Welded	3/4, 1	ASME 16.25
	Pipe Socket Welded		ASME 16.11
	Female NPT		ASME B 1.20.1, GB/T 12716
	Female BSP Tapered		ISO 7/1, DIN 2999, GB/T 7306.2
	Female BSP Parallel		ISO 228-1, DIN 3852, GB/T 7307
Outlet Connection	Pipe Socket Welded	1/4, 3/8, 1/2, 3/4	ASME 16.11
	Female NPT		ASME B 1.20.1, GB/T 12716
	Female BSP Tapered		ISO 7/1, DIN 2999, GB/T 7306.2
	Female BSP Parallel		ISO 228-1, DIN 3852, GB/T 7307
	Female ISO 261	M6 x 1, M10 x 1, M12 x 1.5, M14 x 1.5, M16 x 1.5, M20 x 1.5, M24 x 1.5, M27 x 2	ISO 261, GB/T 196
Drain Connection	Female NPT	1/2, 3/4, 1	ASME B 1.20.1, GB/T 12716
	Female BSP Tapered		ISO 7/1, DIN 2999, GB/T 7306.2
	Female BSP Parallel		ISO 228-1, DIN 3852, GB/T 7307
	Female ISO 261	M10 x 1, M14 x 1.5, M20 x 1.5, M24 x 1.5	ISO 261, GB/T 196

Construction

Air Headers

65 Series



Standard Materials of Construction

Item	Component	Material/ASTM Specification	
		Stainless Steel	
1	Inlet Valve	45 Series Ball Valve	
	Flange	F304 SS/A182	F316 SS/A182
2	Main Line	304 SS/A312	316 SS/A312
3	Branch Fitting	304 SS/A276	316 SS/A276
4	Distribution Valve	43 series ball valve as standard option	
5	Drain Valve	43 series ball valve as standard option	
	Plug	304 SS/A276	316 SS/A276

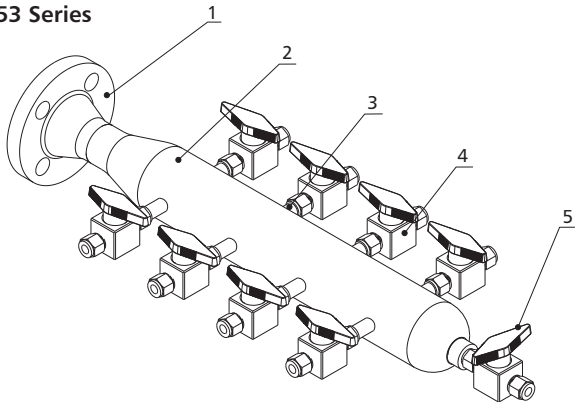
Optimized Setting of the Main Pipe and the Branch

Main Line Size (Sch 40)	Outlet End Connection		Quantity of Distribution Valve
	Fractional in.	Metric mm	
3/4	3/8	8, 10	6 to 8
	1/2	12	4
	1/4	6	10 to 16
1	3/8	8, 10	10 to 14
	—	12	6 to 8
	1/4	6	18 to 24
	1/2	—	6
1 1/4	3/8	8, 10	16 to 24
	—	12	10 to 12
	5/8	14, 16	4 to 6
	1/4	6	28 to 48
	1/2	—	8 to 10
1 1/2	3/8	8, 10	28 to 36
	—	12	16 to 20
	5/8	14, 16	8 to 10
	3/4	18, 20	4 to 6
	1/2	—	12 to 16

Main Line Size (Sch 40)	Outlet End Connection		Quantity of Distribution Valve
	Fractional in.	Metric mm	
2	—	12	24 to 32
	5/8	14, 16	12 to 16
	3/4	18, 20	8 to 10
2 1/2	1	22, 25	4 to 6
	1/2	—	18 to 24
	5/8	14, 16	18 to 24
	3/4	18, 20	12
3	1	22, 25	8
	1 1/4	28	4
	1/2	—	26 to 38
	5/8	14, 16	26 to 38
	3/4	18, 20	16 to 24
4	1	22, 25	10 to 12
	1 1/4	—	6 to 8
	3/4	18, 20	28 to 40
	1	22, 25	16 to 24
	1 1/4	—	10 to 12

Distribution Manifolds

653 Series



Standard Materials of Construction

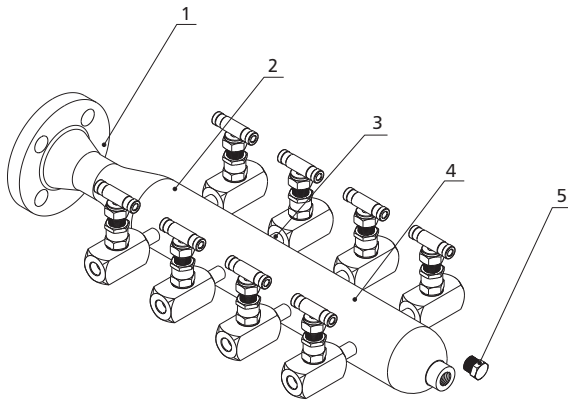
Item	Component	Material/ASTM Specification	
		Stainless Steel	
1	Inlet Valve	44 Series Ball Valve	
	Flange	F304 SS/A182	F316 SS/A182
2	Main Line	304 SS/A312	316 SS/A312
3	Branch Pipe	304 SS/A312	316 SS/A312
4	Distribution Valve	67 series plug valve as standard option	
5	Drain Valve	67 series plug valve as standard option	
	Plug	304 SS/A276	316 SS/A276

Optimized Setting of the Main Pipe and the Branch

Main Line Size (Sch 80)	Outlet End Connection			Quantity of Distribution Valve
	Pipe (Sch 80)	Tube Fractional in.	Tube Metric mm	
3/4	1/8	3/8	10, 8	6 to 8
	1/4	1/2	12	4
	—	1/4	6	10 to 16
1	1/8	3/8	10, 8	10 to 14
	1/4	—	12	6 to 8
	—	1/4	6	18 to 24
	—	1/2	—	6
1 1/4	1/8	3/8	10, 8	16 to 24
	1/4	—	12	10 to 12
	3/8	5/8	14, 16	4 to 6
	—	3/4	6	28 to 48
	—	1/2	—	8 to 10

Main Line Size (Sch 80)	Outlet End Connection			Quantity of Distribution Valve
	Pipe (Sch 80)	Tube Fractional in.	Tube Metric mm	
1 1/2	1/8	3/8	10, 8	28 to 36
	1/4	—	12	16 to 20
	3/8	5/8	14, 16	8 to 10
	1/2	3/4	18, 20	4 to 6
	—	1/2	—	12 to 16
2	1/4	—	12	24 to 32
	3/8	5/8	14, 16	12 to 16
	1/2	3/4	18, 20	8 to 12
	3/4	1	22, 25	4 to 8
	—	1/2	—	18 to 24

651 Series



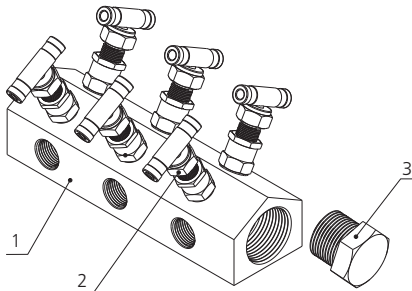
Standard Materials of Construction

Item	Component	Material/ASTM Specification	
		Stainless Steel	
1	Flange	F304 SS/A182	F316 SS/A182
2	Main Line	304 SS/A479	316 SS/A479
3	Branch Pipe	304 SS/A312	316 SS/A312
4	Distribution Valve	31/32 series needle valve as standard option	
5	Plug	304 SS/A276	316 SS/A276

Optimized Setting of the Main Pipe and the Branch

Main line Size (Sch 160)	Outlet End Connection			Quantity of Distribution Valve
	Pipe (Sch 160)	Tube Fractional in.	Tube Metric mm	
1	1/8	3/8	10, 8	10 to 14
	1/4	—	12	6 to 8
	—	1/4	6	18 to 24
	—	1/2	—	6
1 1/4	1/8	3/8	10, 8	16 to 24
	1/4	—	12	10 to 12
	3/8	5/8	14, 16	4 to 6
	—	1/4	6	28 to 48
	—	1/2	—	8 to 10
1 1/2	1/8	3/8	10, 8	28 to 36
	1/4	—	12	16 to 20
	3/8	5/8	14, 16	8 to 10
	1/2	3/4	18, 20	4 to 6
	—	1/2	—	12 to 16
2	1/4	—	12	24 to 32
	3/8	5/8	14, 16	12 to 16
	1/2	3/4	18, 20	8 to 12
	3/4	1	22, 25	4 to 8
	—	1/2	—	18 to 24

652 Series



Standard Materials of Construction

Item	Component	Material/ASTM Specification	
		Stainless Steel	
1	Main Line	304 SS/A479	316 SS/A479
2	Needle Valve	31 series needle valve as standard option	
3	Plug	304 SS/A276	316 SS/A276

Carbon steel and other materials are available upon request

65 Series How to Order

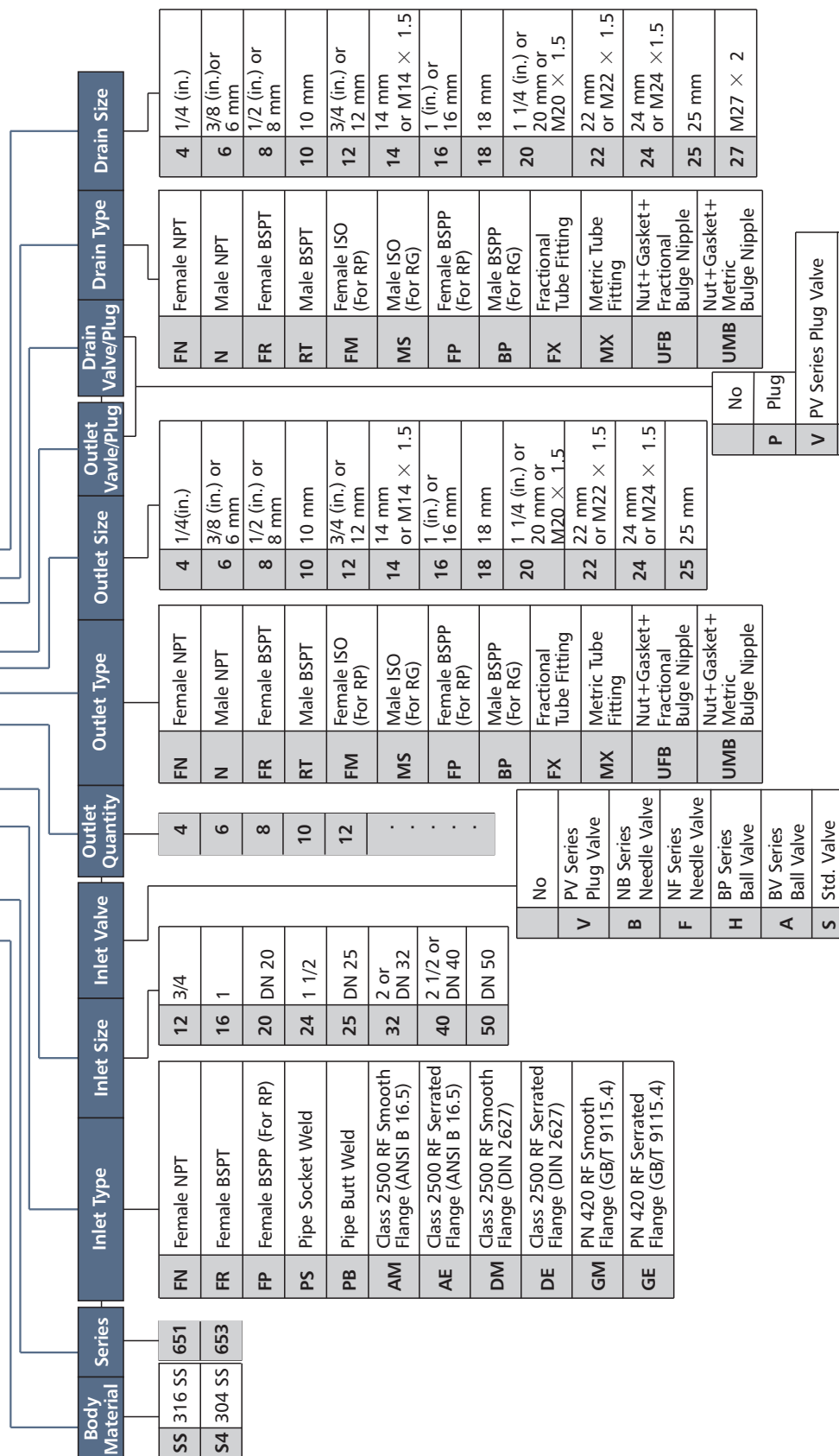
SS65—FN16Y—8MX12—VN8—L

Body Material	Series	Inlet Type	Inlet Size	Inlet Valve	Outlet Quantity	Outlet Type	Outlet Size	Outlet Valve/Plug	Drain Valve/Plug	Drain Type	Drain Size	Handle
SS 316 SS	FN	Female NPT	12 3/4	4	FN	Female NPT	4 1/4 (in.)	Valve			None	Stainless Steel Blue Vinyl Covered
S4 304 SS	FR	Female BSPT	16 1	6	N	Male NPT	6 3/8 (in.) or 6 mm	P Plug			8 1/2 (in.) or 8 mm	Stainless Steel Yellow Vinyl Covered
	FP	Female BSPP (For RP)	20 DN 20	8	FR	Female BSPT	8 1/2 (in.) or 8 mm	N No			10 M10 × 1 or 10 mm	With Short Black Handle
	PS	Pipe Socket Weld	24 1 1/2	10	RT	Male BSPT	10 10 mm				12 3/4 (in.) or 12 mm	Handle Lock
	PB	Pipe Butt Weld	25 DN 25	12	FM	Female ISO (For RP)	12 3/4 (in.) or 12 mm	Plug			14 14 mm	Customer Specified
	AM	Class 150 RF Smooth Flange (ANSI B 16.5)	32 2 or DN 32		MS	Male ISO (For RG)	14 14 mm or M 14 × 1.5	V Valve			16 1 (in.) or M16 × 1.5	
	AE	Class 150 RF Serrated Flange (ANSI B 16.5)	40 2 1/2 or DN 40		FP	Female BSPP (For RP)	16 1 (in.) or 16 mm				20 M20 × 1.5 or 20 mm	
	DM	PN 20 RF Smooth Flange (DIN 2634)	48 3		BP	Male BSPP (For RG)	18 18 mm				24 M24 × 1.5	
	DE	PN 16 RF Serrated Flange (DIN 2634)	50 DN50		FX	Fractional Tube Fitting	20 11/4 (in.) or 20 mm or M20 × 1.5				25 25 mm	
	GM	PN 16 RF Smooth Flange (GB/T 9115.1)	64 4		MX	Metric Tube Fitting	22 22 mm or M22 × 1.5				27 M27 × 2	
	GE	PN 20 RF Serrated Flange (GB/T 9115.1)	65 DN 65		UFB	Nut+Gasket +Fractional Bulge Nipple	24 24 mm or M24 × 1.5					
	AMT	Class 300 RF Smooth Flange (ANSI B 16.5)	80 DN 80		UMB	Nut+Gasket+Metric Bulge Nipple	25 25 mm					
	AET	Class 300 RF Serrated Flange (ANSI B 16.5)										
	DMT	PN 40 RF Smooth Flange (DIN 2634)										
	DET	PN 40 RF Serrated Flange (DIN 2634)										
	GMT	PN 40 RF Smooth Flange (GB/T 9115.1)										
	GET	PN 40 RF Serrated Flange (GB/T 9115.1)										

Remark:

- Standard thread pitch for metric threads are as follows:
M10 and below: 1 mm
M12 to M24: 1.5 mm
M27 and above: 2 mm
Standard thread pitch should be ignored in the ordering number, others should be specified.

SS651—FN16—10FX8B—BFN8

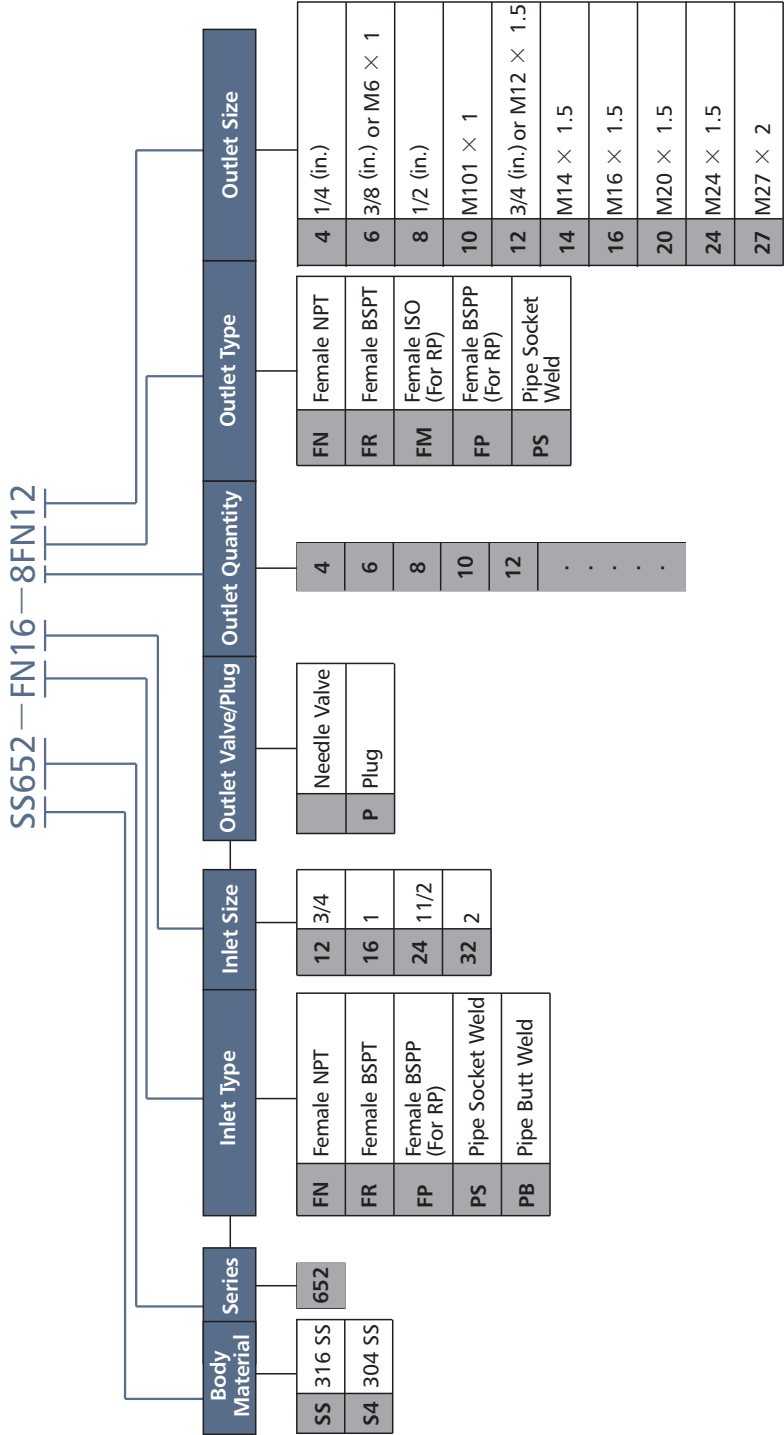


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652 Series How to Order



Remark:

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