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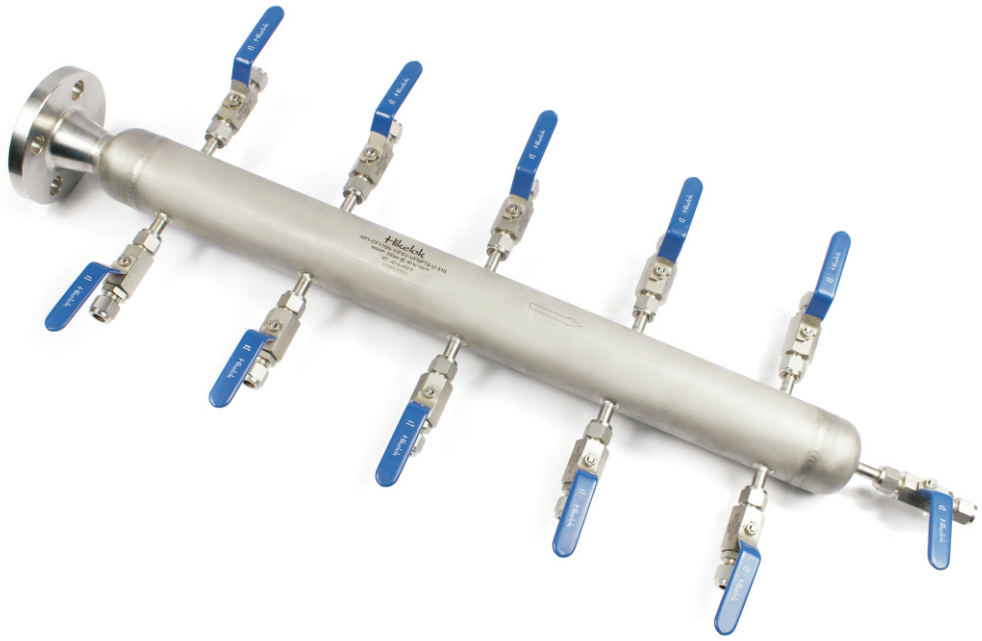
Hikelok®
Solution Provider For Fluid Systems

Air Headers

AP1 Series



- Working pressure up to 300 psig (20.6 bar)
- Working temperaturas from -40℉ to 450℉ (-40℃ to 232℃)
- Inlet Connection: flange, threaded welded
- Drain Connection: ball valves, needle valves, Hikelok tube fittings threaded
- Red, Yellow, and blue handles are available

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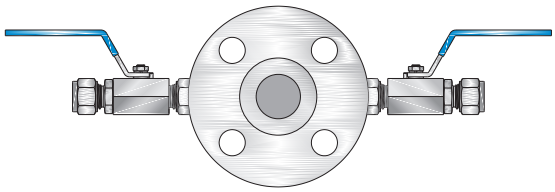
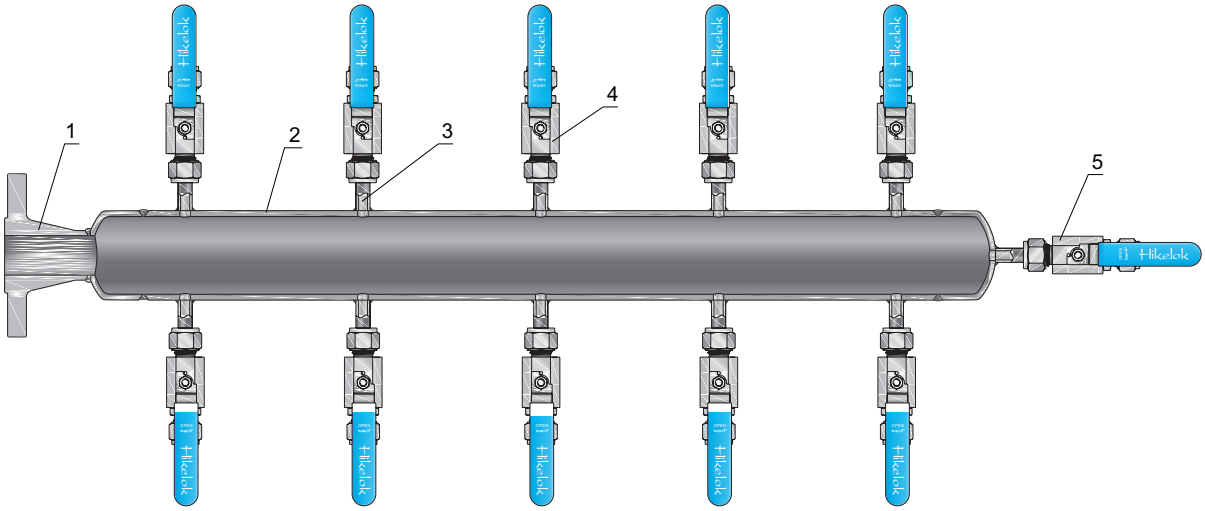
Features

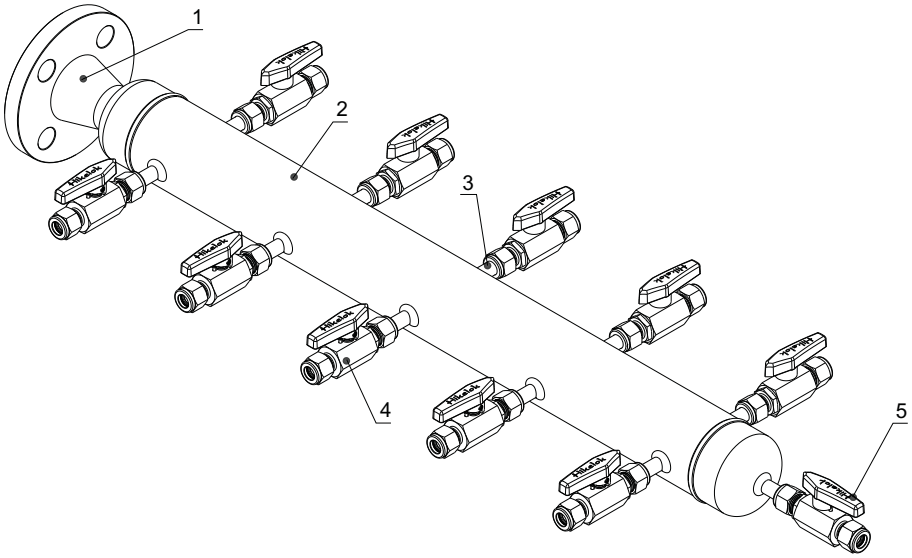
- Working pressure up to 300 psig (20.6 bar)
- Working temperaturas from -40°F to 450°F (-40°C to 232°C)
- Red, Yellow, and blue handles are available
- The standard main line is Sch 40 pipe
- Distribution ports are BV3 or BV5 Series ball valves



Standard Materials of Construction



Item	Component	Material/ASTM Specification
1	Inlet Valve	BV5 Series Ball Valve
	Flange	F316 S.S./A182
2	Main Line	316 S.S./A312
3	Branch Fitting	316 S.S./A276
4	Distribution Valve	BV3 series ball valve as standard option
5	Drain Valve	BV3 series ball valve as standard option
	Plug	316 S.S./A276



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End Connections

Connection	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
	Female BSP Tapered		ISO 7/1, DIN 2999
	Female BSP Parallel		ISO 228-1, DIN 3852
	Flange		ANSI B 16.5
		DN20, DN25, DN32, DN40, DN50, DN65, DN80	ASME B16.5, DIN 2634
Outlet Connection	Female NPT	1/4, 3/8, 1/2, 3/4 , 1	ASME B 1.20.1
	Male NPT		
	Female BSP Tapered		ISO 7/1, DIN 2999
	Male BSP Tapered		
	Female BSP Parallel		ISO 228-1, DIN 3852
	Male BSP Parallel		
	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
	Male ISO 261		
	Fractional Tube Fitting	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4	Hikelok Tube Fitting
	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	——
	Metric Tube Fitting		Hikelok Tube Fitting
Drain Connection	Female NPT	1/2, 3/4 , 1	ASME B 1.20.1
	Male NPT		
	Female BSP Tapered		ISO 7/1, DIN 2999
	Male BSP Tapered		
	Female BSP Parallel		ISO 228-1, DIN 3852
	Male BSP Parallel		
	Female ISO 261	M10 x 1, M16 x 1.5, M20 x 1.5, M24 x 1.5	ISO 261
	Male ISO 261		
	Fractional Tube Fitting	1/2, 3/4, 1	Hikelok Tube Fitting
	Metric Tube Fitting	10 mm, 14 mm, 20 mm, 25 mm	

Hikelok Air Headers are used to supply users with instrument airBesides multiple types of standard styles we also supply the Air Headers according customer demands.

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Optimized Setting of the Main Pipe and the Branch

Main Line Size (Sch 40)	Outlet End Connection		Quantity of Distribution Valve
	Tube		
	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
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

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How to Order

AP1 — FNPT16N — 16FNPT8V — AFNPT8 — Y — 316

Series	Inlet Type	Inlet Size	Inlet Valve	Outlet Quantity	Outlet Type	Outlet Size	Outlet Valve/Plug	Drain	Drain Type	Drain Size	Handle	Body Material
AP1	**FNPT** Female NPT	**12** 3/4	**N** No	**4**	**FNPT** Female NPT	**8** 1/2in. or 8 mm	**V** Valve	**A** Valve with Plug	**FNPT** Female NPT	None	Blue	**316** 316 S.S.
	FBT Female BSPT	**16** 1	**Y** Yes	**6**	**NPT** Male NPT	**10** M10 x 1 or 10mm	**P** Plug	**V** Valve	**NPT** Male NPT	**8** 1/2 in. or 8 mm	**Y** Yellow	**304** 304 S.S.
	FBP Female BSPP	**24** 1 1/2		**8**	**FBT** Female BSPT	**12** 3/4in. or 12 mm	**N** No	**P** Plug	**FBT** Female BSPT	**10** M10 x 1 or 10mm	**R** Red	
	PSW Pipe Socket Weld			**10**	**MBT** Male BSPT	**14** M14 x 1.5 or 14 mm	**A** Valve with Plug		**MBT** Male BSPT	**12** 3/4 in. or 12 mm	**L** Black	
	PBW Pipe Butt Weld			**12**	**FMS** Female Metric				**FMS** Female Metric	**14** M14 x 1.5 or 14 mm		
	RF1 Class 150 RF Serrated Flange (ASME B 16.5)			.	**MS** Male Metric				**MS** Male Metric			
	RF3 Class 300 RF Serrated Flange (ASME B 16.5)			.	**FBP** Female BSPP				**FBP** Female BSPP			
				.	**MBP** Male BSPP				**MBP** Male BSPP			
				.	**F** Fractional Tube Fitting				**F** Fractional Tube Fitting			
				.	**M** Metric Tube Fitting Handle				**M** Metric Tube Fitting Handle			
					UGM Nut + Gasket + Bulge Nipple							

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