

INSTRUMENTATION BALL VALVES

1,000 PSI TO 10,000 PSI RATED

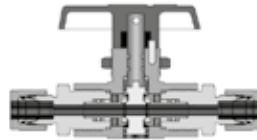
BALL VALVES

- High flow capability and low operating torque
- 2-way ball valves available for flow in both directions
- Low operating torque and easy to use
- Pneumatic or electric actuator available
- Options for handle colour
- Every valve is factory tested with nitrogen at rated pressure; If rated pressure is greater than 6000 psig, tested at 6000 psig accordingly



BF & BFH SERIES

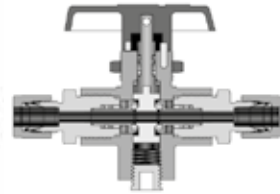
- Forged body with end connectors
- Body materials: 316 SS, 316L SS, 904L SS and alloy 400
- Seat materials: PTFE, PCTFE and PEEK
- Packing materials: fluorocarbon FKM and PTFE
- End connections:
 - 1/8" to 1/2" female NPT
 - 1/4" to 1/2" and 6mm to 12mm tube fitting
- Orifice size: 0.19" (4.8mm)
- Working pressure up to:
 - BF Series 6000 psig (414 bar)
 - BFH Series: 10,000 psig (690 bar)
- Working temperature: 0°F to 450°F (-17°C to 232°C)



BF Series



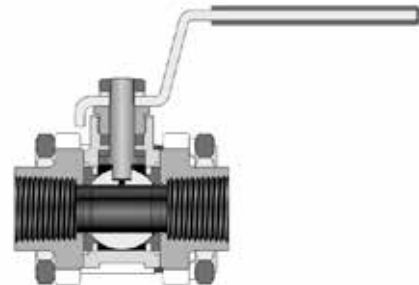
BF Series



BFH Series

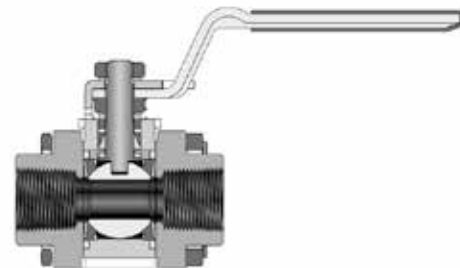
BG SERIES

- 3-piece precision cast body construction
- Body materials: CF8M (316), CF3M (316L), CF8 (304), CF3 (304L) and 904L SS
- Seat materials: PTFE
- Packing materials: PTFE
- End connections:
 - 1/8" to 3" thread
 - 1/8" to 3" pipe butt or socket weld
 - 1/4" to 2" and 6mm to 50mm tube butt or socket weld
 - 1/4" to 2" and 6mm to 50mm tube fitting
- Orifice size: 0.19" (4.8mm) to 3" (76mm)
- Working pressure up to: 1000 psig (69.0 bar)
- Working temperature: -20° to 450°F (-28°C to 232°C)



BH SERIES

- 3-piece precision cast body construction
- Body materials: CF8M (316), CF3M (316L), CF8 (304), CF3 (304L) and 904L SS
- Seat materials: PTFE, RPTFE and PEEK
- Packing materials: PTFE, RPTFE, Graphite and O-ring
- End connections:
 - 1/8" to 2" thread
 - 1/8" to 2" pipe butt or socket weld
 - 1/2" to 2" and 12mm to 50mm tube butt or socket weld
 - 1/2" to 2" and 12mm to 38mm tube fitting
- Orifice size: 0.19" (4.8mm) to 1.5" (38.1mm)
- Working pressure up to: 3000 psig (207 bar)
- Working temperature: -20°F to 450°F (-28°C to 232°C)

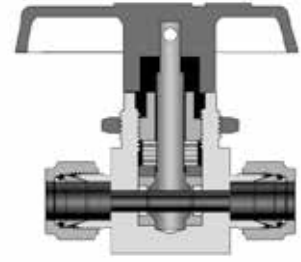


INSTRUMENTATION BALL VALVES

1,000 PSI TO 10,000 PSI RATED

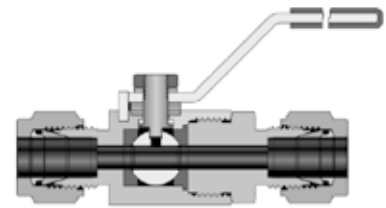
BO SERIES

- 1-piece forged body, top entry
- Body materials: 316 SS, 316L SS, 304 SS, 321 SS, 304L SS, 904L SS, alloy 400 and brass
- Seat materials: PTFE and UHMWPE
- Flow patterns: 2-way, 3-way, 4-way, 5-way, 6-way and 7-way
- End connections:
 - 1/8" to 1/2" thread
 - 1/16" to 3/4" and 3mm to 18mm tube fitting
- Orifice size: 0.05" (1.3mm) to 0.41" (10.3mm)
- Working pressure up to: 3000 psig (207 bar)
- Working temperature: -65°F to 300°F (-54°C to 148°C)



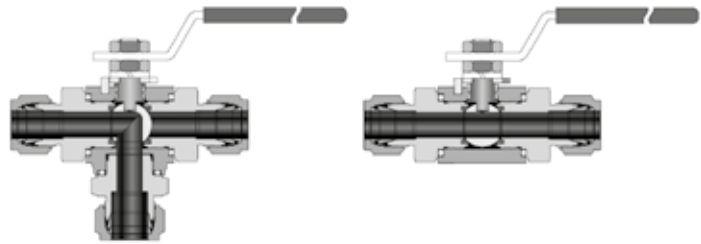
BR SERIES

- Cold drawn hex bar and cast body with single connector
- Body materials: 316 SS, 304 SS, 316L SS, 904L SS and brass
- Seat materials: PTFE
- Packing materials: PTFE
- End connections:
 - 1/8" to 1" thread
 - 1/4" to 1" and 6mm to 25mm tube fitting
- Orifice size: 0.19" (4.8mm) to 0.63" (16mm)
- Working pressure up to: 1000 psig (69.0 bar)
- Working temperature: -20°F to 450°F (-28°C to 232°C)



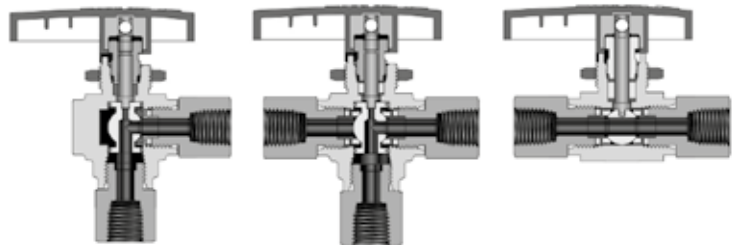
BP SERIES

- Cold drawn bar or forged body with end connectors
- Body materials: 316 SS, 304 SS, 321 SS and 904L SS
- Seat materials: PVDF, PCTFE and PEEK
- Packing materials: PTFE
- Flow patterns: 2-way and 3-way
- End connections:
 - 1/4" to 1" thread
 - 1/4" to 1" and 6mm to 25mm tube fitting
- Orifice size: 0.39" (10mm), 0.5" (12.7mm) and 0.71" (18mm)
- Working pressure up to: 10,000 psig (690 bar)
- Working temperature: -40°F to 450°F (-40°C to 232°C)



BV SERIES

- Precision cast body with end connectors
- Body materials: CF8M (316), CF3M (316L), CF8 (304), 904L SS, CF3 (304L) and brass
- Seat materials: PVDF, PCTFE and PEEK
- Packing materials: PTFE
- Flow patterns: 2-way straight, 2-way angle and 3-way
- End connections:
 - 1/8" to 3/4" thread
 - 1/8" to 3/4" and 3mm to 22mm tube fitting
- Orifice size: 0.09" (2.4mm), 0.41" (10.3mm)
- Working pressure up to: 6000 psig (414 bar)
- Working temperature: -65°F to 450°F (-54°C to 232°C)



BALL VALVES

PART NUMBER DESCRIPTION

BV SS - FL 8 - FNS 8 - P 10 - R - RX HQ 3 - S F2												
SERIES	BODY MATERIAL	PORT 1 TYPE	PORT 1 SIZE	PORT 2/3 TYPE	PORT 2/3 SIZE	SEAT MATERIAL	ORIFICE SIZE	PACKING MATERIAL	HANDLE/ACTUATOR	FOR ACTUATOR	FLOW PATTERN	SPECIAL APPLICATION
BF	CF8M / 316 SS	FNS	2 1/8"	Same as Port 1	02	PTFE	0.09" (2.4mm)	Fluorocarbon FKM (BF, BFH)	Black, Nylon (B0, BV)	NO	Straight	NO
BFH	CF3M / 316L SS	NS	3 3mm	Specify every Port designator if any of its Ports is different from the others	03	H UHMWPE	0.13" (3.2mm)	PTFE (BG, BH, BO, BP, BR, BV)	Stainless steel with yellow vinyl covered (BG, BH, BP, BR)	H Mechanical Limit Switch	A Angel (Bottom Port Inlet)	S NACE MR0175
BG	CF8 / 304L SS	FRT	4 1/4"		04	K PCTFE	0.17" (4.2mm)	B Buna N	Red Handle or Vinyl Covered	N Inductive Limit Switch	3 3-way	CLEANING & PACKAGING
BH	CF8 / 304 SS	RT	5 5/16"		05	P PEEK	0.19" (4.7mm)	E Ethylene propylene	Green Handle or Vinyl Covered	Q Electromagnetic Valve	4 4-way	FC-01
B0	CF3 / 304L SS	FMS	6 3/8" or 6mm or M6 x 1		07	R Reinforced RPTFE	0.28" (7.1mm)	G Graphite	Blue Handle or Vinyl Covered	HQ Mechanical Limit Switch and Electromagnetic Valve	5 5-way	FC-02
BP	CF3 / 304L SS	MS	8 1/2" or 8mm		10		0.35" (8.9mm) for BR	H UHMWPE	Inductive Limit Switch and Electromagnetic Valve	NQ Inductive Limit Switch and Electromagnetic Valve	6 6-way	
BR	CF3 / 304L SS	FRP	10 10mm or M10 x 1		11		0.40" (10.3mm) for BV BH Series	K Fluorocarbon FKM	Yellow Nylon		7 7-way	
BV	Brass	BP	12 3/4" or 12mm		13		0.42" (10.6mm)	N Neoprene	Black Aluminium			
	Alloy 400	FL	14 14 mm or M14 x 1/5		14		0.50" (12.7mm)	P Peek	90° Normally Closed Spring Return Pneumatic Actuator			
	F22	ML	16 1" or 16mm		15		0.58" (14.7mm)	R RPTFE	180° Left end normally open spring return pneumatic actuator			
	F91	MTS	18 18mm		16		0.88" (22.2mm)	T PTFE	180° Right end normally open spring return pneumatic actuator			
	Duplex 2205	TS	20 20mm or M20 x 1.5		17				90° Double acting pneumatic actuator			
	Duplex 2507	MTB	22 22mm or M22 x 1.5		18				180° Left end normally open spring return pneumatic actuator			
INC	Inconel 600	TB	24 1 1/2" or M24 x 1.5		19				180° Right end normally open spring return pneumatic actuator			
CS	Carbon Steel	PS	25 25mm		20				180° Double acting pneumatic actuator			
904L	904L SS	PB	27 M27 x 2		21				180° Left end normally open spring return pneumatic actuator			
		UFB	28 28mm		22				180° Right end normally open spring return pneumatic actuator			
		UMB	32 2" or 32mm		23				180° Left end normally open spring return pneumatic actuator			
		UPB	36 2 1/4" or M40 x 2		24				180° Right end normally open spring return pneumatic actuator			
			40 2 1/2" or M40 x 2		25				180° Double acting pneumatic actuator			
			48 3" or M48 x 2		26				180° Left end normally open spring return pneumatic actuator			
			64 4"		27				180° Right end normally open spring return pneumatic actuator			

NB: "Part Number Description" is used for composition rules of Abdex product model, not suitable for specific product part number selection, not random combinations. If in doubt, please contact Abdex.