

Super X Manual & Mechanical Spool Valves In-line 3/2, 5/2 & 5/3, 1/8" & 1/4" NPT

- Wide range of operators
- Suitable for multi-directional flow and dual supply applications
- High flow capacity
- Lightweight corrosion resistant materials



Technical data

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operation:

Spool Valve, directly and indirectly actuated

Mounting:

Through-holes in valve body

Port Size:

1/8" and 1/4" NPT

Operating Pressure:

Maximum 26.5" Hg to 145 psig (-0.9 to 10 bar)

Flow Characteristics:

Size	Function	Cv	l/min
1/8" NPT	3/2, 5/2, 5/3	0.34	335
1/4" NPT	3/2, 5/2, 5/3	0.98	965

Operating Temperature:

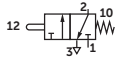
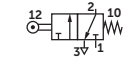
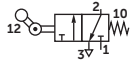
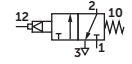
32°F* to 158°F (0°C* to 70°C)

* Consult our Technical Service for use below 35°F (2°C).

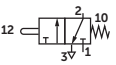
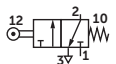
Materials

Diecast aluminum alloy body, aluminum or glass filled nylon end covers, nitrile rubber seals

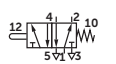
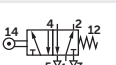
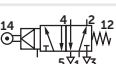
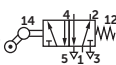
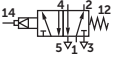
1/8" NPT 3/2 Mechanical Valves

	Model	Port size	Function	Actuation	Wt lb	Service kits	Drawing number
	03 0400 22	1/8 NPT	3/2	Plunger /Spring	0.31	03 8408 02	A, 1
	03 0402 22	1/8 NPT	3/2	Roller /Spring	0.31	03 8408 02	A, 3
	03 0411 22	1/8 NPT	3/2	Roller lever /Spring	0.46	03 8408 02	A, 6
	03 0293 22	1/8 NPT	3/2	Roller lever (heavy duty) /Spring	0.46	03 8408 02	A, 4
	03 0410 22	1/8 NPT	3/2	One-way trip /Spring	0.46	03 8408 02	A, 7
	03 0294 22	1/8 NPT	3/2	One-way trip (heavy duty) /Spring	0.46	03 8408 02	A, 8
	03 0432 22	1/8 NPT	3/2	Antenna /Spring	0.46	–	A, 9

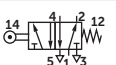
1/4" NPT 3/2 Mechanical Valves

	Model	Port size	Function	Actuation	Wt lb	Service kits	Drawing number
	03 0600 22	1/4 NPT	3/2	Plunger /Spring	0.75	03 8602 02	B, 1
	03 0602 22	1/4 NPT	3/2	Roller /Spring	0.75	03 8602 02	B, 3
	03 0611 22	1/4 NPT	3/2	Roller lever /Spring	0.9	03 8602 02	B, 6

1/8" NPT 5/2 Mechanical Valves

	Model	Port size	Function	Actuation	Wt lb	Service kits	Drawing number
	X3 0440 22	1/8 NPT	5/2	Plunger /Spring	0.55	03 8408 02	E, 1
	X3 0442 22	1/8 NPT	5/2	Roller/Spring	0.55	03 8408 02	E, 3
	X3 0451 22	1/8 NPT	5/2	Roller lever/Spring	0.71	03 8408 02	E, 6
	X3 0393 22	1/8 NPT	5/2	Roller lever (heavy duty)/Spring	0.64	03 8408 02	E, 4
	X3 0463 22	1/8 NPT	5/2	Sensitive roller lever/Spring	0.79	–	E, 5
	X3 0450 22	1/8 NPT	5/2	One-way trip /Spring	0.71	03 8408 02	E, 7
	X3 0472 22	1/8 NPT	5/2	Antenna /Spring	0.66	–	E, 9

1/4" NPT 5/2 Mechanical Valves

	Model	Port size	Function	Actuation	Wt lb	Service kits	Drawing number
	X3 0640 22	1/4 NPT	5/2	Plunger /Spring	1.01	03 8602 02	B, 2
	X3 0642 22	1/4 NPT	5/2	Roller /Spring	1.01	03 8602 02	B, 3
	X3 0651 22	1/4 NPT	5/2	Roller lever /Spring	1.17	03 8602 02	B, 6

1/8" NPT 3/2 Manual Valves

	Model	Port size	Function	Actuation	Mid position	Color	Wt lb	Service kits	Drawing number
	03 0404 22	1/8 NPT	3/2	Button/spring	–	Black	0.33	03 8408 02	A, 10
	03 0366 22	1/8 NPT	3/2	Button (palm)/spring	–	Red	0.64	03 8408 02	A, 11
	03 0367 22	1/8 NPT	3/2	Button (palm)/spring	–	Green	0.64	03 8408 02	A, 11
	03 0368 22	1/8 NPT	3/2	Button (palm)/spring	–	Black	0.64	03 8408 02	A, 11
	03 0414 22	1/8 NPT	3/2	Button (shrouded)/spring	–	Black	0.46	03 8408 02	A, 12
	03 0428 22	1/8 NPT	3/2	Emergency stop/twist ring	–	Red	0.68	03 8473 02	A, 13
	03 0335 22 801	1/8 NPT	3/2	Button (palm)/key	–	Red	0.82	03 8408 02	A, 14
	03 0438 22	1/8 NPT	3/2	Lever/spring	–	Black	0.62	03 8408 02	A, 17
	03 0437 22	1/8 NPT	3/2	Lever/lever	–	Black	0.64	03 8408 02	A, 17
	03 0403 22	1/8 NPT	3/2	Toggle/toggle	–	Black	0.35	03 8408 02	A, 16
	03 0425 22	1/8 NPT	3/2	Knob/knob	–	Black	0.37	03 8408 02	A, 10
	03 0424 22	1/8 NPT	3/2	Knob/knob or pilot	–	Black	0.46	03 8408 02	D, 10
	03 0298 22	1/8 NPT	3/2	Rotary knob/rotary knob	–	Black	0.64	03 8408 02	A, 19
	03 0418 22 801	1/8 NPT	3/2	Key/key	–	Chrome	0.79	03 8408 02	A, 20
	03 0481 22	1/8 NPT	3/2	Pedal/spring	–	Black	2.27	03 8408 02	21
	03 0483 22	1/8 NPT	3/2	Pedal/pedal	–	Black	2.36	03 8408 02	21

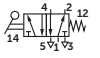
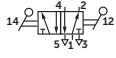
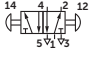
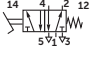
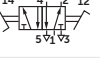
1/4" NPT 3/2 Manual Valves

	Model	Port size	Function	Actuation	Mid position	Color	Wt lb	Service kits	Drawing number
	03 0604 22	1/4 NPT	3/2	Button/spring	–	Black	0.77	03 8602 02	B, 23
	03 0638 22	1/4 NPT	3/2	Lever/spring	–	Black	2.34	03 8602 02	B, 22
	03 0637 22	1/4 NPT	3/2	Lever/lever	–	Black	1.08	03 8602 02	B, 22
	03 0625 22	1/4 NPT	3/2	Knob/knob	–	Black	0.82	03 8602 02	B, 24
	03 0681 22	1/4 NPT	3/2	Pedal/spring	–	Black	2.71	03 8602 02	21
	03 0683 22	1/4 NPT	3/2	Pedal/pedal	–	Black	2.8	03 8602 02	21

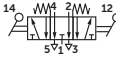
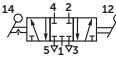
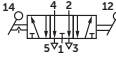
1/8" NPT 5/2 Manual Valves

	Model	Port size	Function	Actuation	Mid position	Color	Wt lb	Service kits	Drawing number
	X3 0444 22	1/8 NPT	5/2	Button/spring	–	Black	0.57	03 8408 02	E, 10
	X3 0386 22	1/8 NPT	5/2	Button (palm)/spring	–	Red	0.88	03 8408 02	E, 11
	X3 0388 22	1/8 NPT	5/2	Button (palm)/spring	–	Black	0.88	03 8408 02	E, 11
	X3 0454 22	1/8 NPT	5/2	Button (shrouded)/spring	–	Black	0.71	03 8408 02	E, 12
	X3 0465 22	1/8 NPT	5/2	Knob, push/knob, pull	–	Black	0.62	03 8408 02	E, 18
	X3 0468 22	1/8 NPT	5/2	Emergency stop/twist ring	–	Red	1.19	03 8473 02	E, 13
	X3 0375 22 801	1/8 NPT	5/2	Button (palm)/key	–	Red	1.06	03 8408 02	E, 14
	X3 0478 22	1/8 NPT	5/2	Lever/spring	–	Black	0.88	03 8408 02	E, 16
	X3 0443 22	1/8 NPT	5/2	Toggle/toggle	–	Black	0.6	03 8408 02	E, 16
	X3 0477 22	1/8 NPT	5/2	Lever/lever	–	Black	0.88	03 8408 02	E, 17
	X3 0459 22	1/8 NPT	5/2	Rotary knob/rotary knob	–	Black	0.88	03 8408 02	E, 19
	X3 0458 22 801	1/8 NPT	5/2	Key/key	–	Chrome	1.04	03 8408 02	E, 20
	X3 0482 22	1/8 NPT	5/2	Pedal/spring	–	Black	2.47	03 8408 02	22
	X3 0484 22	1/8 NPT	5/2	Pedal/pedal	–	Black	2.6	03 8408 02	22

1/4" NPT 5/2 Manual Valves

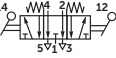
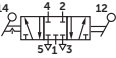
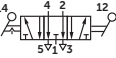
	Model	Port size	Function	Actuation	Mid position	Color	Wt lb	Service kits	Drawing number
	X3 0644 22	1/4 NPT	5/2	Button/spring	–	Black	1.04	03 8602 02	F, 23
	X3 0678 22	1/4 NPT	5/2	Lever/spring	–	Black	1.32	03 8602 02	E, 22
	X3 0677 22	1/4 NPT	5/2	Lever/lever	–	Black	1.35	03 8602 02	E, 22
	X3 0665 22	1/4 NPT	5/2	Knob/knob	–	Black	1.08	03 8602 02	J, 21
	X3 0682 22	1/4 NPT	5/2	Pedal/spring	–	Black	2.93	03 8602 02	J, 21
	X3 0684 22	1/4 NPT	5/2	Pedal/pedal	–	Black	3.06	03 8602 02	J, 22

1/8" NPT 5/3 Manual Valves

	Model	Port size	Function	Actuation	Mid position	Color	Wt lb	Service kits	Drawing number
	X3 3438 22	1/8 NPT	5/3	Lever/spring/lever	APB	Black	1.87	03 8408 02	J, 16
	X3 3478 22	1/8 NPT	5/3	Lever/spring/lever	COE	Black	1.87	03 8408 02	J, 16
	X3 3437 22	1/8 NPT	5/3	Lever/lever/lever	APB	Black	0.97	03 8408 02	J, 16
	X3 3477 22	1/8 NPT	5/3	Lever/lever/lever	COE	Black	0.97	03 8408 02	J, 16

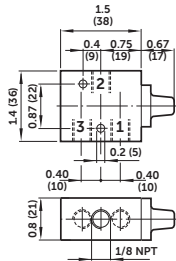
APB = All Ports Blocked COE = Center Open Exhaust

1/4" NPT 5/3 Manual Valves

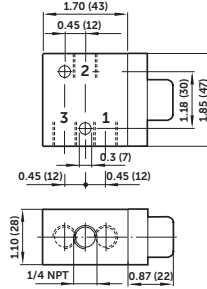
	Model	Port size	Function	Actuation	Mid position	Color	Wt lb	Service kits	Drawing number
	X3 3638 22	1/4 NPT	5/3	Lever/spring/lever	APB	Black	1.06	03 8602 02	J, 22
	X3 3678 22	1/4 NPT	5/3	Lever/spring/lever	COE	Black	1.06	03 8602 02	J, 22
	X3 3637 22	1/4 NPT	5/3	Lever/lever/lever	APB	Black	1.43	03 8602 02	J, 22
	X3 3677 22	1/4 NPT	5/3	Lever/lever/lever	COE	Black	1.43	03 8602 02	J, 22

APB = All Ports Blocked COE = Center Open Exhaust

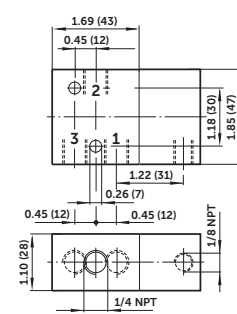
A 1/8" NPT, 3/2 Spring return, basic body



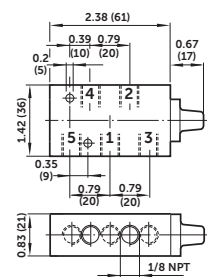
B 1/4" NPT, 3/2 Spring return, basic body



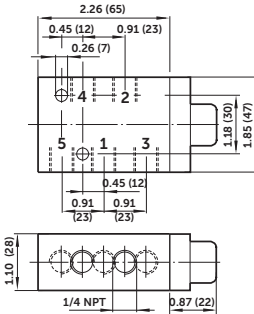
D 1/4" NPT, 3/2 Pilot return, basic body



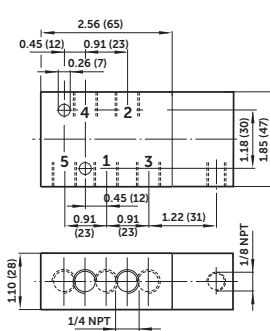
E 1/8" NPT, 5/2 Spring return, basic body



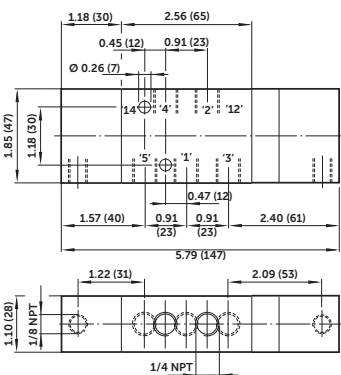
F 1/4" NPT, 5/2 Spring return, basic body



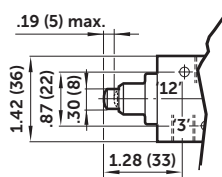
H 1/4" NPT, 5/2 Pilot return, basic body



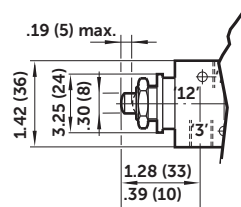
J 1/4" NPT, 5/3 Spring return, basic body



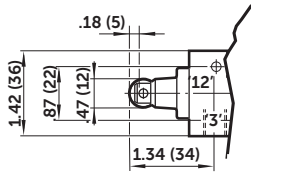
1 Plunger Spring Return



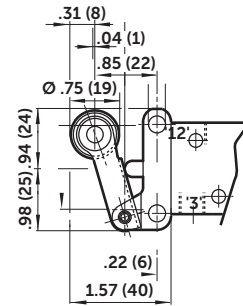
2 Plunger Pilot Return



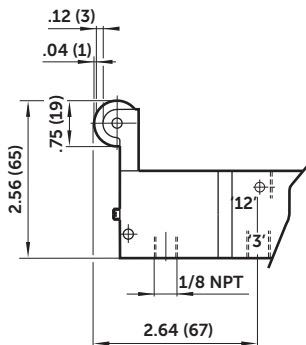
3 Roller



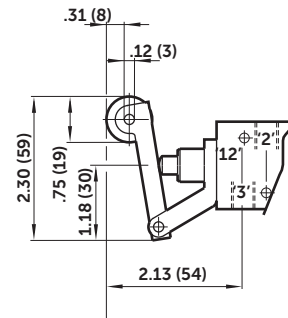
4 Heavy Duty Roller Lever



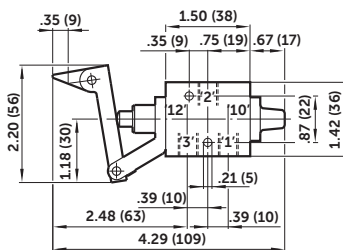
5 Sensitive Roller Lever



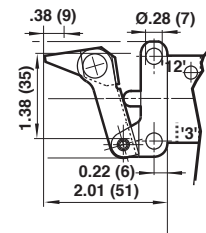
6 Roller Lever



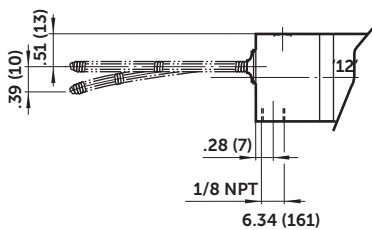
7 One-way Trip



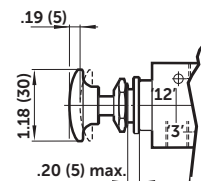
8 Heavy Duty One Way Trip



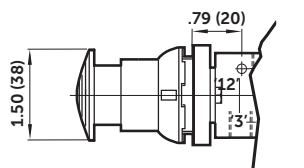
9 Antenna



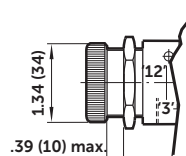
10 Button Operated



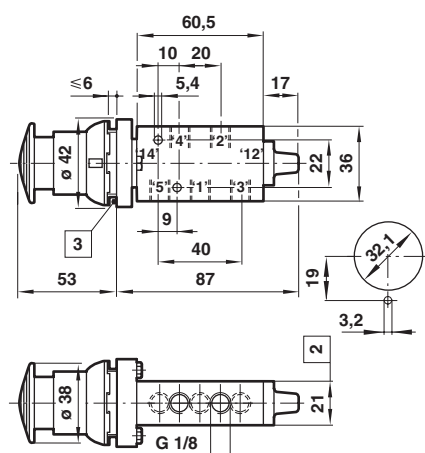
11 Button (Palm) Operated



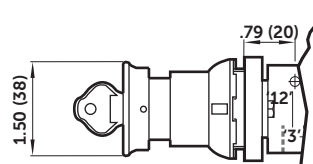
12 Button (Shrouded) Operated



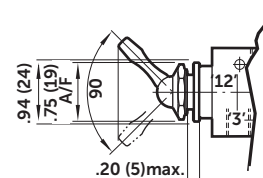
13 Palm Button Operated, Twist Return Valve (Emergency Stop)



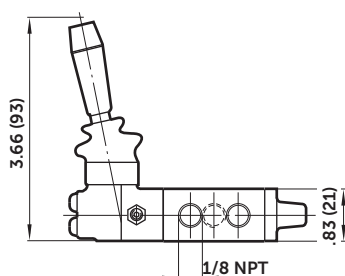
14 Button (Palm) Operated Key Return Valve



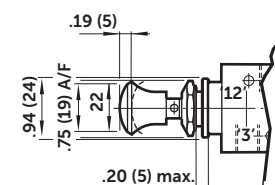
16 Lever Operated



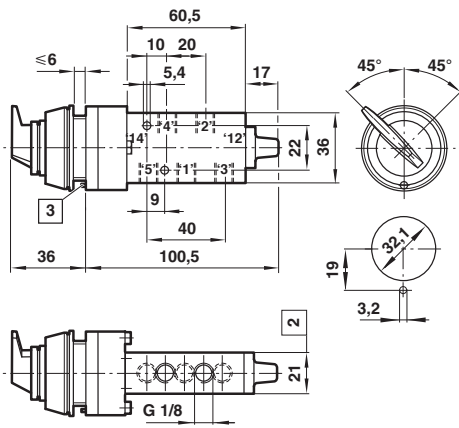
17 Lever Operated



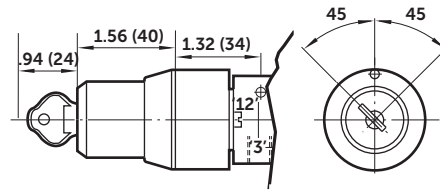
18 Knob Operated



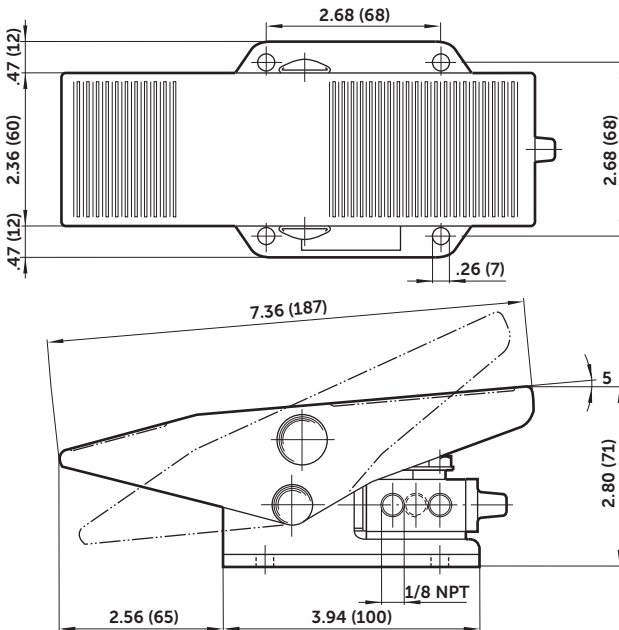
19 Rotary Knob Operated Rotary Knob Return Valve



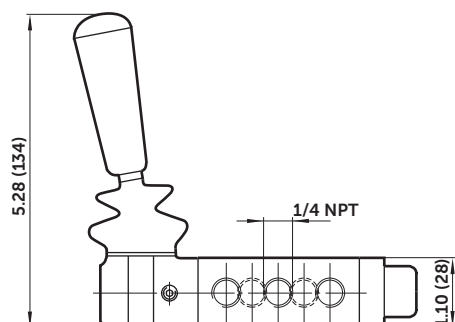
20 Key Operated Key Return Valve



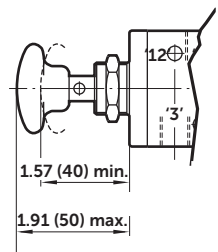
21 Pedal



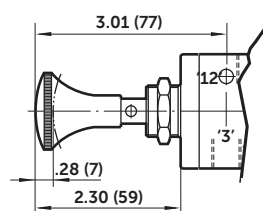
22 Lever Operated Valves



23 Button Operated Pilot Return Valve



24 Knob Operated Knob Return Valve



25 Lever/Knob

