

B45/53 - Manual & Mechanically Operated Valves

The compact design of these valves make them a popular choice for manual or mechanical operation and their modular construction permit different operators to be fitted to the actuator and return assemblies.

The Midget and Intermediate valves are designed to have balanced forces across the spool so that 3/2 valves can be piped normally open or normally closed by changing the inlet supply from port 1 to port 3.

- B 43 - 1/8" ported, B53 - 1/4 ported
- Manual and mechanical operation
- Stainless steel spools
- Viton seals
- 3/2, 5/2, 3/3 and 5/3 versions.
- Integral mounting holes



Operating information

Pressure range Vacuum to 10 bar
 Temperature range -10°C to +80°C
 Flow acc. (to ISO 6358)

Midget B43 series	Intermediate B53 series
c = 1.13 NI/s x bar	c = 3.69 NI/s x bar
b = 0.36	b = 0.33
Qn = 5.5 l/s	Qn = 17.5 l/s
Qmax = 9.0 l/s	Qmax = 29 l/s
Cv = 0.24	Cv = 1.02

Midget mechanically operated valves, B43 series - G1/8

Symbol	Type	Actuator Button	Return	Operating force at 6 bar, N	Order code
	3/2	Plunger	Spring	36	B43003CS
	3/2	Plunger	Air	14	B43003CP
	5/2	Plunger	Spring	36	B43004CS
	5/2	Plunger	Air	14	B43004CP
	3/2	Roller Lever	Spring	20	B43003RS
	3/2	Roller Lever	Air	7	B43003RP
	5/2	Roller Lever	Spring	20	B43004RS
	5/2	Roller Lever	Air	7	B43004RP
	3/2	One way lever	Spring	20	B43003RTS
	3/2	One way roller lever	Air	7	B43003RTP
	5/2	One way roller lever	Spring	20	B43004RTS
	5/2	One way roller lever	Air	7	B43004RTP

Intermediate mechanically operated valves, B53 series - G1/4

Symbol	Type	Actuator Button	Return	Operating force at 6 bar, N	Order code
	3/2	Plunger	Spring	53	B53003CS
	3/2	Plunger	Air	27	B53003CP
	5/2	Plunger	Spring	53	B53004CS
	5/2	Plunger	Air	27	B53004CP
	3/2	Roller	Spring	53	B53003RS
	3/2	Roller	Air	27	B53003RP
	5/2	Roller	Spring	53	B53004RS
	5/2	Roller	Air	27	B53004RP

B45/53 - Manual & Mechanically Operated Valves

Midget manually operated valves, B43 series - G1/8

Symbol	Type	Actuator Button	Return	Operating force at 6 bar, N	Order code
	3/2	Black	Spring	36	B43003BXS
	3/2	Black	Button	13	B43003HXS
	5/2	Black	Spring	36	B43004BXS
	5/2	Black	Button	13	B43004HXS
	3/2	Black	Air	13	B43003BXP
	3/2	Black	Air or Button	13	B43003HXP
	5/2	Black	Air	13	B43004BXP
	5/2	Black	Air or Button	13	B43004HXP
	3/2	Lock down lever	Spring	9	B43003LS
	3/2	Lock down lever	Spring	9	B43004LS
	5/2	Lock down lever	Air	3	B43003LP
	5/2	Lock down lever	Air	3	B43004LP

Intermediate manually operated valves, B53 series - G1/4

Symbol	Type	Actuator Button	Return	Operating force at 6 bar, N	Order code
	3/2	Black	Spring	53	B53003HXS
	3/2	Black	Button	27	B53003HX
	3/2	Black	Air	27	B53003HXP
	5/2	Black	Spring	53	B53004HXS
	5/2	Black	Button	27	B53004HX
	5/2	Black	Air	27	B53004HXP
	5/3	Button closed	Button self centring	13	B53005HXX
	5/3	Button vented	Air self centring	13	B53004HXY
	5/3	Button pressurised	Air self centring	13	B53004HXZ

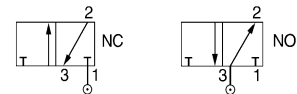
Note: The standard button colour is black (X)

For optional colour buttons change 8th character of order code e.g. B43004HXS = Black button, B43004HXS = Green button, B43004HYS = Red button.

X = Black

Z = Green

Y = Red



All 3/2 type B43 & B53 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air supply to port 1 or port 3