

V50-53 SERIES IN-LINE VALVES



VALUE ENGINEERED HIGH FLOW IN-LINE VALVES

INTRODUCING THE NEW V50-53 IN LINE VALVE SERIES

NORGREN ENGINEERS ARE DEVELOPING PRODUCTS THAT ARE DIRECTLY IN LINE WITH CUSTOMER'S NEEDS AND WANTS AND THE V50 SERIES HAS BEEN DESIGNED TO FIT THESE REQUIREMENTS EXACTLY.

THE V50 SERIES SETS THE STANDARD WHEN IT COMES TO OFFERING AN IN LINE VALVE FOR CUSTOMERS WHO WANT THE BENEFITS OF HIGH QUALITY COUPLED WITH REASONABLE COST. WITH A WIDE APPEAL IN VARIOUS SECTORS AND APPLICATIONS THE V50 SERIES HAS BEEN VALUE ENGINEERED TO OFFER THE QUALITY YOU HAVE COME TO EXPECT FROM ONE OF THE WORLDS LEADING PNEUMATIC SUPPLIERS.

V50 SERIES DELIVERS A HIGH FLOW TO COST RATIO COMBINED WITH HIGHLY RELIABLE SOLENOID TECHNOLOGY. WITH THE V50 SERIES PERFORMANCE, FLEXIBILITY, QUALITY AND RELIABILITY ARE NEVER COMPROMISED.

1 VALUE ENGINEERED TO GIVE HIGH FLOW TO COST RATIO

2 COMPACT AND ROBUST DESIGN

3 HIGHLY RELIABLE AND PROVEN SOFTSEAL SPOOL

4 INCREASED FLEXIBILITY FROM THE PUSH OR TURN TO LOCK MANUAL OVERRIDES

5 LOW POWER ENERGY EFFICIENT SOLENOIDS

6 FLOW RATE PER VALVE: FROM 270 L/MIN UP TO 2480 L/MIN

7 FLEXIBLE INLINE AND MANIFOLD MOUNTING OPTIONS

8 RELIABLE SOLENOID TECHNOLOGY PROVEN IN MILLIONS OF APPLICATIONS

9 ALL VALVE FUNCTIONS FOR 3/2, 5/2 AND 5/3

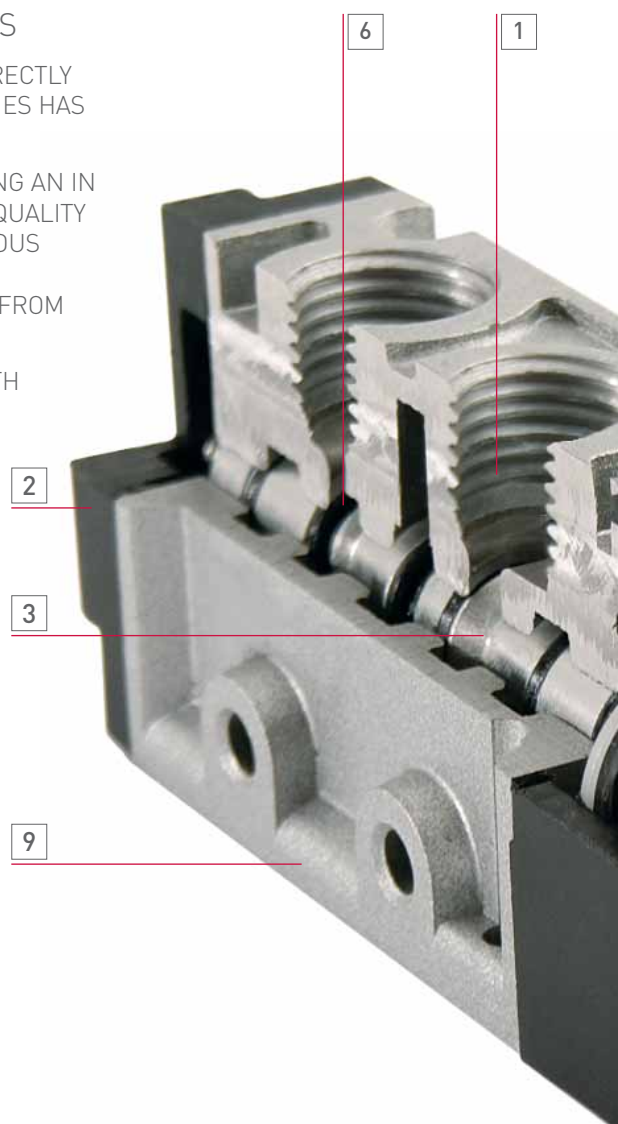
10 FLEXIBLE PILOT SYSTEM WITH EXCHANGEABLE SOLENOID

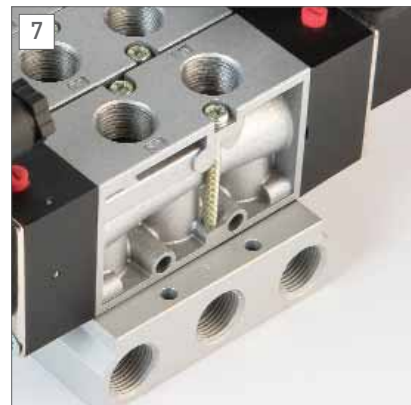
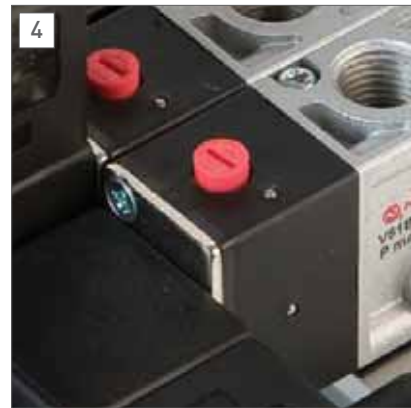
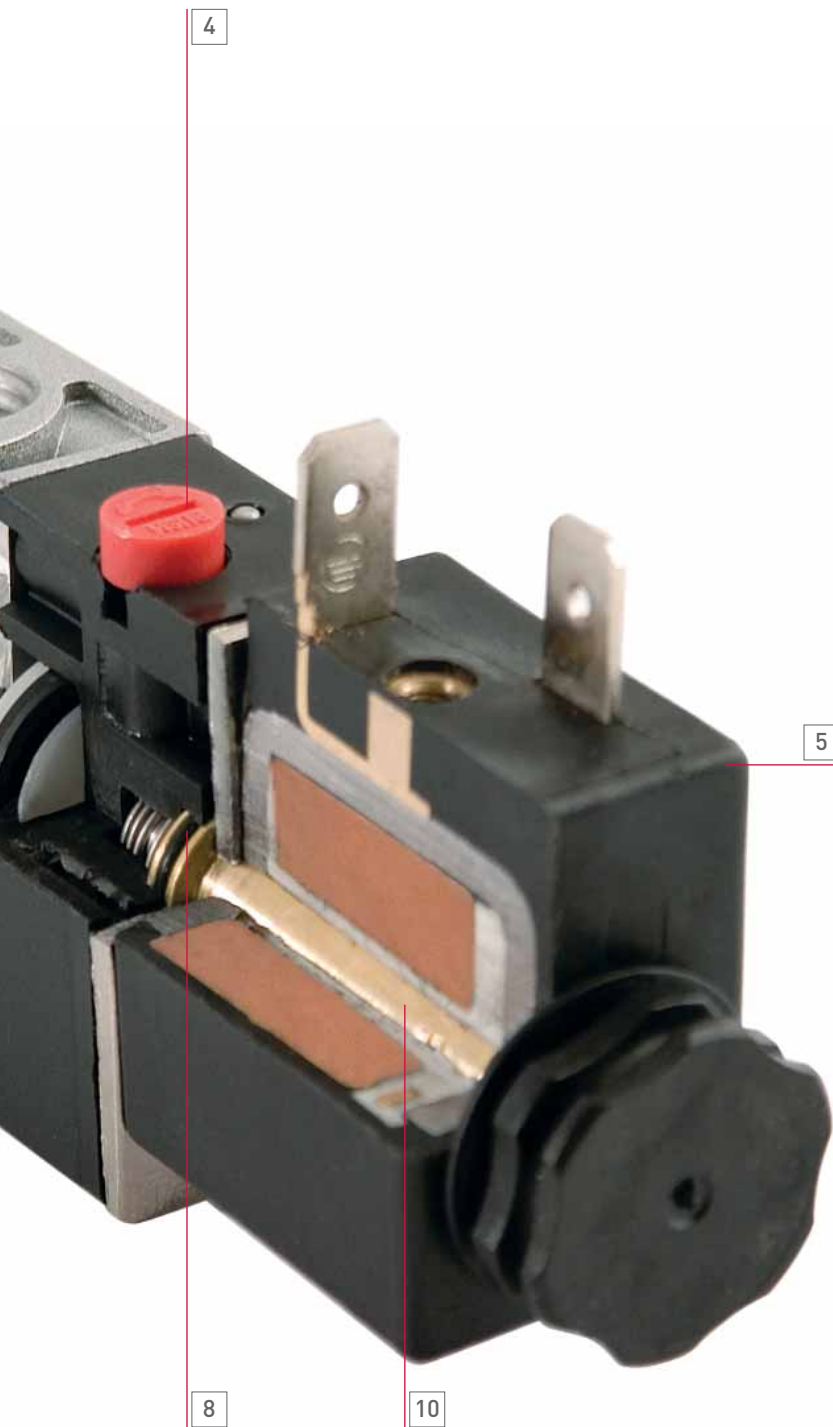
» PRESSURE RANGE UP TO 8 BAR

» SUITABLE FOR NON LUBRICATED OR LUBRICATED AIR SUPPLY

» AMBIENT AND FLUID TEMPERATURE -5°C TO +50°C

» WIDE RANGE OF PILOT ACTUATED VALVES ALSO AVAILABLE





» Visit www.norgren.com to download 2D and 3D dimensional drawings with multiple CAD format support.



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PRODUCT SELECTOR

>> V50

1/8 BSP input and outputs 1/8 BSP exhausts

VALVE PART NUMBERS

MODEL	FUNCTION	ACTUATION	FLOW (l/min)	OPERATING PRESSURE (BAR)
V50A413A-A2***	3/2	Sol/air	480	2 ... 8
V50A411A-A2***	3/2	Sol/sol	480	2 ... 8
V50A513A-A2***	5/2	Sol/air	480	2 ... 8
V50A511A-A2***	5/2	Sol/sol	480	2 ... 8
V50A611A-A2***	5/3 APB	Sol/sol	270	3 ... 8
V50A711A-A2***	5/3 COE	Sol/sol	270	3 ... 8
V50A811A-A2***	5/3 COP	Sol/sol	270	3 ... 8

*** Insert coil code from following table

COIL PART NUMBERS (15MM DIN EN 175301-803 (DIN 43650) FORM C)

MODEL	COIL CODE	VOLTAGE	POWER INRUSH/HOLD
V12958-A12	12A	12 V d.c.	2,5 W
V12958-A13	13A	24 V d.c.	2,5 W
V12958-A18	18A	110/120 V 50/60 Hz	4.8/3.6 VA
V12958-A19	19A	220/240 V 50/60 Hz	4.8/3.6 VA

Each coil will be delivered with one V10027-D00 connector as standard (see below). If alternative models required please use table below. Other connectors available.

CONNECTOR PART NUMBERS (15MM DIN EN 175301-803 (DIN 43650) FORM C)

MODEL	FUNCTION
V10027-D00	12...250 V a.c./d.c.
V10013-D01	12...250 V a.c./d.c. 1M moulded cable
V10012-D13	12 ... 24 V d.c.LED, surge suppression
V10012-D18	110 V a.c. LED, surge suppression
V10012-D19	220 V a.c. LED, surge suppression

ACCESSORY PART NUMBERS

MODEL	FUNCTION
T40C1800	1/8 BSP sintered bronze valve silencer
T40C2800	1/4 BSP sintered bronze manifold silencer
M/S1	1/8 BSP plastic valve silencer
M/S2	1/4 BSP plastic manifold silencer
V500351	3/2 Manifold blanking plate
V500551	5/2 Manifold blanking plate
160050018	1/8 BSP valve port blanking plug
C02250418	1/8 BSP 4 mm straight valve fitting
C02250618	1/8 BSP 6 mm straight valve fitting
C02250628	1/4 BSP 6 mm straight manifold fitting
C02250828	1/4 BSP 8 mm straight manifold fitting

MANIFOLD PART NUMBERS

STATIONS	2	3	4	5	6	7	8	9	10
3/2 VALVES	V50A302	V50A303	V50A304	V50A305	V50A306	V50A307	V50A308	V50A309	V50A310
5/2 & 5/3 VALVES	V50A502	V50A503	V50A504	V50A505	V50A506	V50A507	V50A508	V50A509	V50A510



>> V51

1/4 BSP input and outputs 1/8 BSP exhausts

VALVE PART NUMBERS

MODEL	FUNCTION	ACTUATION	FLOW (l/min)	OPERATING PRESSURE (BAR)
V51B417A-A2***	3/2	Sol/spring	1020	2 ... 8
V51B411A-A2***	3/2	Sol/sol	1020	2 ... 8
V51B517A-A2***	5/2	Sol/spring	1020	2 ... 8
V51B511A-A2***	5/2	Sol/sol	1020	2 ... 8
V51B611A-A2***	5/3 APB	Sol/sol	755	3 ... 8
V51B711A-A2***	5/3 COE	Sol/sol	755	3 ... 8
V51B811A-A2***	5/3 COP	Sol/sol	755	3 ... 8

*** Insert coil code from following table

COIL PART NUMBERS (22MM INDUSTRIAL STANDARD)

MODEL	COIL CODE	VOLTAGE	POWER INRUSH/HOLD
QM/48/12J/21	12J	12 V d.c.	2 W
QM/48/13J/21	13J	24 V d.c.	2 W
QM/48/18J/21	18J	110/120 V 50/60 Hz	4/2,5 VA
QM/48/19J/21	19J	220/240 V 50/60 Hz	6/5 VA

Each coil will be delivered with one M/P19063 connector as standard (see below). If alternative models required please use table below. Other connectors available.

CONNECTOR PART NUMBERS (22MM INDUSTRIAL STANDARD)

MODEL	FUNCTION
M/P19063	12...250 V a.c./d.c.
M/P43313/1	12...250 V a.c./d.c. 1M moulded cable
M/P24121/1	12...24 V d.c. lamp, surge suppression
M/P24121/2	90...130 V a.c. neon, surge suppression
M/P24121/3	150...240 V a.c. neon, surge suppression

ACCESSORY PART NUMBERS

MODEL	FUNCTION
T40C1800	1/8 BSP sintered bronze valve silencer
T40C2800	1/4 BSP sintered bronze manifold silencer
M/S1	1/8 BSP plastic valve silencer
M/S2	1/4 BSP plastic manifold silencer
V510351	3/2 Manifold blanking plate
V510551	5/2 Manifold blanking plate
160050028	1/4 BSP valve port blanking plug
CO2250628	1/4 BSP 6 mm straight fitting
CO2250828	1/4 BSP 8 mm straight fitting

MANIFOLD PART NUMBERS

STATIONS	2	3	4	5	6	7	8	9	10
3/2 VALVES	V51B302	V51B303	V51B304	V51B305	V51B306	V51B307	V51B308	V51B309	V51B310
5/2 & 5/3 VALVES	V51B502	V51B503	V51B504	V51B505	V51B506	V51B507	V51B508	V51B509	V51B510



>> V52

3/8 BSP input and outputs 3/8 BSP exhausts

VALVE PART NUMBERS

MODEL	FUNCTION	ACTUATION	FLOW (l/min)	OPERATING PRESSURE (BAR)
V52C417A-A2***	3/2	Sol/spring	1705	2 ... 8
V52C411A-A2***	3/2	Sol/sol	1705	2 ... 8
V52C517A-A2***	5/2	Sol/spring	1705	2 ... 8
V52C511A-A2***	5/2	Sol/sol	1705	2 ... 8
V52C611A-A2***	5/3 APB	Sol/sol	1190	3 ... 8
V52C711A-A2***	5/3 COE	Sol/sol	1190	3 ... 8
V52C811A-A2***	5/3 COP	Sol/sol	1190	3 ... 8

*** Insert coil code from following table

COIL PART NUMBERS (22MM INDUSTRIAL STANDARD)

MODEL	COIL CODE	VOLTAGE	POWER INRUSH/HOLD
QM/48/12J/21	12J	12 V d.c.	2 W
QM/48/13J/21	13J	24 V d.c.	2 W
QM/48/18J/21	18J	110/120 V 50/60 Hz	4/2,5 VA
QM/48/19J/21	19J	220/240 V 50/60 Hz	6/5 VA

Each coil will be delivered with one M/P19063 connector as standard (see below). If alternative models required please use table below. Other connectors available.

CONNECTOR PART NUMBERS (22MM INDUSTRIAL STANDARD)

MODEL	FUNCTION
M/P19063	12...250 V a.c./d.c.
M/P43313/1	12...250 V a.c./d.c. 1M moulded cable
M/P24121/1	12...24 V d.c. lamp, surge suppression
M/P24121/2	90...130 V a.c. neon, surge suppression
M/P24121/3	150...240 V a.c. neon, surge suppression

ACCESSORY PART NUMBERS

MODEL	FUNCTION
T40C3800	3/8 BSP sintered bronze silencer
M/53	3/8 BSP plastic silencer
V520351	3/2 Manifold blanking plate
V520551	5/2 Manifold blanking plate
160050038	3/8 BSP valve port blanking plug
C02250838	3/8 BSP 8 mm straight fitting
C02251038	3/8 BSP 10 mm straight fitting

MANIFOLD PART NUMBERS

STATIONS	2	3	4	5	6	7	8	9	10
3/2 VALVES	V52C302	V52C303	V52C304	V52C305	V52C306	V52C307	V52C308	V52C309	V52C310
5/2 & 5/3 VALVES	V52C502	V52C503	V52C504	V52C505	V52C506	V52C507	V52C508	V52C509	V52C510



>> V53

1/2 BSP input and outputs 1/2 BSP exhausts

VALVE PART NUMBERS

MODEL	FUNCTION	ACTUATION	FLOW (l/min)	OPERATING PRESSURE (BAR)
V53D417A-A2***	3/2	Sol/spring	2480	2 ... 8
V53D411A-A2***	3/2	Sol/sol	2480	2 ... 8
V53D517A-A2***	5/2	Sol/spring	2480	2 ... 8
V53D511A-A2***	5/2	Sol/sol	2480	2 ... 8
V53D611A-A2***	5/3 APB	Sol/sol	1910	3 ... 8
V53D711A-A2***	5/3 COE	Sol/sol	1910	3 ... 8
V53D811A-A2***	5/3 COP	Sol/sol	1910	3 ... 8

*** Insert coil code from following table

COIL PART NUMBERS (22MM INDUSTRIAL STANDARD)

MODEL	COIL CODE	VOLTAGE	POWER INRUSH/HOLD
QM/48/12J/21	12J	12 V d.c.	2 W
QM/48/13J/21	13J	24 V d.c.	2 W
QM/48/18J/21	18J	110/120 V 50/60 Hz	4/2,5 VA
QM/48/19J/21	19J	220/240 V 50/60 Hz	6/5 VA

Each coil will be delivered with one M/P19063 connector as standard (see below).
If alternative models required please use table below. Other connectors available.

CONNECTOR PART NUMBERS (22MM INDUSTRIAL STANDARD)

MODEL	FUNCTION
M/P19063	12...250 V a.c./d.c.
M/P43313/1	12...250 V a.c./d.c. 1M moulded cable
M/P24121/1	12...24 V d.c. lamp, surge suppression
M/P24121/2	90...130 V a.c. neon, surge suppression
M/P24121/3	150...240 V a.c. neon, surge suppression

ACCESSORY PART NUMBERS

MODEL	FUNCTION
T40C4800	1/2 BSP sintered bronze silencer
M/S4	1/2 BSP plastic silencer
V530351	3/2 Manifold blanking plate
V530551	5/2 Manifold blanking plate
160050048	1/2 BSP valve port blanking plug
C02251048	1/2 BSP 10 mm straight fitting
C02251248	1/2 BSP 12 mm straight fitting

MANIFOLD PART NUMBERS

STATIONS	2	3	4	5	6	7	8	9	10
3/2 VALVES	V53D302	V53D303	V53D304	V53D305	V53D306	V53D307	V53D308	V53D309	V53D310
5/2 & 5/3 VALVES	V53D502	V53D503	V53D504	V53D505	V53D506	V53D507	V53D508	V53D509	V53D510



FOR FURTHER INFORMATION ON THE V50-53 RANGE PLEASE REFER TO DATA SHEET 5.3.541 OR CONSULT YOUR LOCAL NORGREN TECHNICAL SERVICE

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z7083 EN/04/08