

V60 ... 63 SERIES In-line valves

Solenoid and pilot actuated 3/2, 5/2, 5/3 and 2 x 3/2



- High flow rate
- Small volumetric size
- Proven sealing system
- Different manual override options available
- Maintenance-free
- Low power consumption (2 W)

TECHNICAL DATA

Medium:

Compressed air, filtered to 50 µm, lubricated or non lubricated.

Operation:

Electromagnetically or pneumatically controlled

Ambient temperature:

-10°C to +50°C

Fluid temperature:

-10°C to +50°C

Consult our Technical Service for use below +2°C.

Prevent dirt from getting into valves by always fitting silencers into exhaust ports



SOLENOID VALVE MODELS

3/2 VALVES - solenoid actuated, internal pilot supply, industrial standard 22mm coil

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	MODEL		ACCESSORIES			
				24 DC Push only Manual override	220 AC Push only Manual override	Straight fitting	Elbow fitting	Silencer	Basic plug
Sol/Air spring	G1/8	750	2 ... 8	V60A413A-A313J	V60A413A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	1300	2 ... 8	V61B413A-A313J	V61B413A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	2600	2 ... 8	V62C413A-A313J	V62C413A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	4200	2 ... 8	V63D413A-A313J	V63D413A-A319J	C02251248	C02471248	T40C4800	0657868000000000
Sol/Spring	G1/8	750	2 ... 8	V60A417A-A313J	V60A417A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	1300	2 ... 8	V61B417A-A313J	V61B417A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	2600	2 ... 8	V62C417A-A313J	V62C417A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	4200	2 ... 8	V63D417A-A313J	V63D417A-A319J	C02251248	C02471248	T40C4800	0657868000000000
Sol/Sol	G1/8	750	1,5 ... 8	V60A411A-A313J	V60A411A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	1300	1,5 ... 8	V61B411A-A313J	V61B411A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	2600	1,5 ... 8	V62C411A-A313J	V62C411A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	4200	1,5 ... 8	V63D411A-A313J	V63D411A-A319J	C02251248	C02471248	T40C4800	0657868000000000

Note: Models with 22mm coil DIN EN 175301-803 (DIN 43650B) replace J by L.

2 X 3/2 VALVES - solenoid actuated, internal pilot supply, industrial standard 22mm coil

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	MODEL		ACCESSORIES			
				24 DC Push only Manual override	220 AC Push only Manual override	Straight fitting	Elbow fitting	Silencer	Basic plug
Sol/Spring NC	G1/8	500	2 ... 8	V60AA11A-A313J	V60AA11A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	950	2 ... 8	V61BA11A-A313J	V61BA11A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	1900	2 ... 8	V62CA11A-A313J	V62CA11A-A319J	C02251038	C02471038	T40C3800	0657868000000000

Note: Models with 22mm coil DIN EN 175301-803 (DIN 43650B) replace J by L.

See page 102 for detailed accessories information and pre-configured options ready to install. Others models, voltages and manual override availables please use the valve configurator.



For further information



www.norgren.com/info/nec/en98

SOLENOID VALVE MODELS

5/2 VALVES - solenoid actuated, internal pilot supply, industrial standard 22mm coil

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	MODEL		ACCESSORIES			
				24 DC Push only Manual override	220 AC Push only Manual override	Straight fitting	Elbow fitting	Silencer	Basic plug
						Tube diameter in bold			
<p>Sol/Air spring</p>	G1/8	750	2 ... 8	V60A513A-A313J	V60A513A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	1300	2 ... 8	V61B513A-A313J	V61B513A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	2600	2 ... 8	V62C513A-A313J	V62C513A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	4200	2 ... 8	V63D513A-A313J	V63D513A-A319J	C02251248	C02471248	T40C4800	0657868000000000
<p>Sol/Spring</p>	G1/8	750	2 ... 8	V60A517A-A313J	V60A517A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	1300	2 ... 8	V61B517A-A313J	V61B517A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	2600	2 ... 8	V62C517A-A313J	V62C517A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	4200	2 ... 8	V63D517A-A313J	V63D517A-A319J	C02251248	C02471248	T40C4800	0657868000000000
<p>Sol/Sol</p>	G1/8	750	2 ... 8	V60A511A-A313J	V60A511A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	1300	2 ... 8	V61B511A-A313J	V61B511A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	2600	2 ... 8	V62C511A-A313J	V62C511A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	4200	2 ... 8	V63D511A-A313J	V63D511A-A319J	C02251248	C02471248	T40C4800	0657868000000000

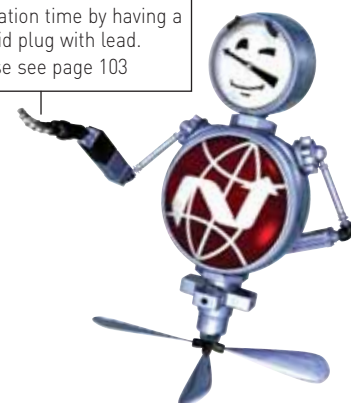
Note: Models with 22mm coil DIN EN 175301-803 (DIN 43650B) replace J by L.

5/3 VALVES - solenoid actuated, internal pilot supply, industrial standard 22mm coil

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	MODEL		ACCESSORIES			
				24 DC Push only Manual override	220 AC Push only Manual override	Straight fitting	Elbow fitting	Silencer	Basic plug
						Tube diameter in bold			
<p>APB</p>	G1/8	500	3 ... 8	V60A611A-A313J	V60A611A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	950	3 ... 8	V61B611A-A313J	V61B611A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	1900	3 ... 8	V62C611A-A313J	V62C611A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	2200	2,5 ... 8	V63D611A-A313J	V63D611A-A319J	C02251248	C02471248	T40C4800	0657868000000000
<p>COE</p>	G1/8	500	3 ... 8	V60A711A-A313J	V60A711A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	950	3 ... 8	V61B711A-A313J	V61B711A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	1900	3 ... 8	V62C711A-A313J	V62C711A-A319J	C02251038	C02471038	T40C3800	0657868000000000
	G1/2	2200	2,5 ... 8	V63D711A-A313J	V63D711A-A319J	C02251248	C02471248	T40C4800	0657868000000000
<p>COP</p>	G1/8	500	3 ... 8	V60A811A-A313J	V60A811A-A319J	C02250618	C02470618	T40C1800	0657868000000000
	G1/4	950	3 ... 8	V61B811A-A313J	V61B811A-A319J	C02250828	C02470828	T40C2800	0657868000000000
	G3/8	1900	3 ... 8	V62C811A-A313J	V62C811A-A319J	C02251038	C02471038	T40C3800	0657868000000000

Note: Models with 22mm coil DIN EN 175301-803 (DIN 43650B) replace J by L.
 APB = All Ports Blocked, COE = Centre Open Exhaust, COP = Centre Open Pressure.

Save installation time by having a solenoid plug with lead. Please see page 103



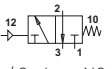




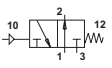

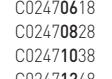


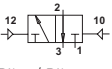

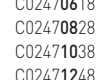


See page 102 for detailed accessories information and pre-configured options ready to install. Others models, voltages and manual override availables please use the valve configurator.

V60 ... 63 SERIES In-line valves

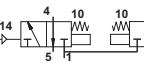

Solenoid and pilot actuated 3/2, 5/2, 5/3 and 2 x 3/2

PILOT VALVE MODELS

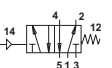




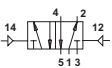

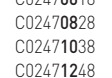


3/2 VALVES - pilot actuated

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	MODEL	ACCESSORIES			
						Straight fitting	Elbow fitting	Valve operator fitting	Silencer
						Tube diameter in bold			
 Pilot / Spring - NC	G1/8	750	-0,9 ... 10	2,5 ... 10	V60A4D7A-XA090				
	G1/4	1300	-0,9 ... 10	2,5 ... 10	V61B4D7A-XA090	C02250828	C02470828	C02250418	T40C2800
	G3/8	2600	-0,9 ... 10	2,5 ... 10	V62C4D7A-XA090	C02251038	C02471038	C02250418	T40C3800
	G1/2	4200	-0,9 ... 16	3 ... 16	V63D4D7A-XA090	C02251248	C02471248	C02250418	T40C4800
 Pilot / Spring - NO	G1/8	750	-0,9 ... 10	2,5 ... 10	V60A3D7A-XA090				
	G1/4	1300	-0,9 ... 10	2,5 ... 10	V61B3D7A-XA090	C02250828	C02470828	C02250418	T40C2800
	G3/8	2600	-0,9 ... 10	2,5 ... 10	V62C3D7A-XA090	C02251038	C02471038	C02250418	T40C3800
	G1/2	4200	-0,9 ... 16	3 ... 16	V63D3D7A-XA090	C02251248	C02471248	C02250418	T40C4800
 Pilot / Pilot	G1/8	750	-0,9 ... 10	1,5 ... 10	V60A4DDA-XA020				
	G1/4	1300	-0,9 ... 10	1,5 ... 10	V61B4DDA-XA020	C02250828	C02470828	C02250418	T40C2800
	G3/8	2600	-0,9 ... 10	2,5 ... 10	V62C4DDA-XA020	C02251038	C02471038	C02250418	T40C3800
	G1/2	4200	-0,9 ... 16	1,5 ... 16	V63D4DDA-XA020	C02251248	C02471248	C02250418	T40C4800

2 X 3/2 VALVES - pilot actuated

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	MODEL	ACCESSORIES			
						Straight fitting	Elbow fitting	Valve operator fitting	Silencer
						Tube diameter in bold			
 NC / NC	G1/8	500	2 ... 10	2 ... 10	V60AADD A-XA020				
	G1/4	950	2 ... 10	2 ... 10	V61BADD A-XA020	C02250828	C02470828	C02250418	T40C2800

5/2 VALVES - pilot actuated

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	MODEL	ACCESSORIES			
						Straight fitting	Elbow fitting	Valve operator fitting	Silencer
						Tube diameter in bold			
 Pilot / Spring	G1/8	750	-0,9 ... 10	2,5 ... 10	V60A5D7A-XA090				
	G1/4	1300	-0,9 ... 10	2,5 ... 10	V61B5D7A-XA090	C02250828	C02470828	C02250418	T40C2800
	G3/8	2600	-0,9 ... 10	2,5 ... 10	V62C5D7A-XA090	C02251038	C02471038	C02250418	T40C3800
	G1/2	4200	-0,9 ... 16	3 ... 16	V63D5D7A-XA090	C02251248	C02471248	C02250418	T40C4800
 Pilot / Pilot	G1/8	750	-0,9 ... 10	1,5 ... 10	V60A5DDA-XA020				
	G1/4	1300	-0,9 ... 10	1,5 ... 10	V61B5DDA-XA020	C02250828	C02470828	C02250418	T40C2800
	G3/8	2600	-0,9 ... 10	1,5 ... 10	V62C5DDA-XA020	C02251038	C02471038	C02250418	T40C3800
	G1/2	4200	-0,9 ... 16	1,5 ... 16	V63D5DDA-XA020	C02251248	C02471248	C02250418	T40C4800

See page 102 for detailed accessories information and pre-configured options ready to install.

Others models, voltages and manual override availables please use the valve configurator.

5/3 VALVES - pilot actuated

Actuation	Port size	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	MODEL	ACCESSORIES			
						Straight fitting <small>Tube diameter in bold</small>	Elbow fitting	Valve operator fitting	Silencer
 APB	G1/8	500	-0,9 ... 10	3 ... 10	V60A6DDA-XA020				
	G1/4	950	-0,9 ... 10	3 ... 10	V61B6DDA-XA020	C02250828	C02470828	C02250418	T40C2800
	G3/8	1900	-0,9 ... 10	3 ... 10	V62C6DDA-XA020	C02251038	C02471038	C02250418	T40C3800
 COE	G1/8	500	-0,9 ... 10	3 ... 10	V60A7DDA-XA020			C02250418	T40C1800
	G1/4	950	-0,9 ... 10	3 ... 10	V61B7DDA-XA020	C02250828	C02470828	C02250418	T40C2800
	G3/8	1900	-0,9 ... 10	3 ... 10	V62C7DDA-XA020	C02251038	C02471038	C02250418	T40C3800
 COP	G1/8	500	-0,9 ... 10	3 ... 10	V60A8DDA-XA020			C02250418	T40C1800
	G1/4	950	-0,9 ... 10	3 ... 10	V61B8DDA-XA020	C02250828	C02470828	C02250418	T40C2800
	G3/8	1900	-0,9 ... 10	3 ... 10	V62C8DDA-XA020	C02251038	C02471038	C02250418	T40C3800

APB = All Ports Blocked, COE = Centre Open Exhaust, COP = Centre Open Pressure.



MANIFOLD SYSTEM

for 2 x 3/2, 5/2, 5/3 valves, solenoid and pilot operated

Valve ports	MODEL V60		V61		V62	
		kg		kg		kg
2	2221002 0000 00000	0,23	2221102 0000 00000	0,28	2221202 0000 00000	0,50
3	2221003 0000 00000	0,28	2221103 0000 00000	0,45	2221203 0000 00000	0,85
4	2221004 0000 00000	0,61	2221104 0000 00000	0,72	2221204 0000 00000	1,25
6	2221006 0000 00000	0,86	2221106 0000 00000	1,02	2221206 0000 00000	1,79
8	2221008 0000 00000	1,11	2221108 0000 00000	1,32	2221208 0000 00000	2,33
10	2221010 0000 00000	1,36	2221110 0000 00000	1,62	2221210 0000 00000	2,87
12	2221012 0000 00000	1,61	2221112 0000 00000	1,92	2221212 0000 00000	3,41
14	2221014 0000 00000	1,86	2221114 0000 00000	2,22	2221214 0000 00000	3,95
16	2221016 0000 00000	2,11	2221116 0000 00000	2,52	2221216 0000 00000	4,49
18	2221018 0000 00000	2,36	2221118 0000 00000	2,82	2221218 0000 00000	5,03
20	2221020 0000 00000	2,61	2221120 0000 00000	3,12	2221220 0000 00000	5,57

Not suitable for individual 3/2 valves.

See page 102 for detailed accessories information and pre-configured options ready to install. Others models, voltages and manual override availables please use the valve configurator.

V60 ... 63 SERIES In-line valves

Solenoid and pilot actuated 3/2, 5/2, 5/3 and 2 x 3/2

OTHER VARIANTS AVAILABLE, PLEASE USE THE VALVE CONFIGURATOR BELOW

V	6	0	A	5	1	7	A	-	A	2	1	3	J
Valve size			Function			Operator			Voltage code				
V60A G1/8			3 3/2 - NO			A - A 22 mm solenoid coil			12 12 V DC				
V61B G1/4			4 3/2 - NC			D - C 15 mm solenoid coil			13 24 V DC				
V62C G3/8			5 5/2			single connector			14 24 V AC				
V63D G1/2			6 5/3 - APB			24V DC only			15 48 V DC				
			7 5/3 - COE			A - X Air pilot operated valves			18 110/120 V AC				
			8 5/3 - COP						19 220/240 V AC				
			A 2 X 3/2 - NC						Pilot valves				
			B 2 X 3/2 - NO						02 Air/air				
			C 2 X 3/2 - NO/NC						09 Air/spring				
						Actuation solenoid actuation			Manual override solenoid actuation			Connector type	
						11 Sol/sol - internal pilot			1 Without Manual override			J 22 mm wide industrial standard	
						17 Sol/spring - internal pilot			2 Push and lock			A 15 mm wide DIN 43650 type C (for 24V DC operation only)	
						13 Sol/air spring - internal pilot			Manual override			L 22 mm wide DIN 43650 type B	
						22 Sol/sol - external pilot			3 Push only				
						27 Sol/spring - external pilot			Manual override				
						23 Sol/air spring - external pilot						Air pilot valves	
						Air pilot actuation			Air pilot actuation			0 Standard	
						D7 Air/spring			A G 1/8 pilot port				
						DD Air/air			5 M5 pilot port				

NOTE: Not all combinations are stocked. Please check availability with our customer service.

PRE-CONFIGURED VALVES, READY TO INSTALL



Valve series	Port/tube Ø size + shape	Fitting part no.	Silencer Metal	Valve operator - solenoid Exhaust diffuser	Basic plug Industrial standard	Complete valve 5/2 Sol/Spring 24DC Push only Manual override	Complete valve 5/2 Sol/Sol 24DC Push only Manual override
V60	1/8" 6 mm/Straight	C02250618	T40C1800	81110800	0657868000000000	V60B517SP313JBAA V60B517SP313JBCA	V60B511SP313JBAA V60B511SP313JBCA
	6 mm/Elbow	C02470618					
V61	1/4" 8 mm/Straight	C02250828	T40C2800	81110800	0657868000000000	V61B517SP313JBEA V61B517SP313JBGA	V61B511SP313JBEA V61B511SP313JBGA
	8 mm/Elbow	C02470828					
V62	3/8" 10 mm/Straight	C02251038	T40C3800	81110800	0657868000000000	V62B517SP313JBJA V62B517SP313JBLA	V62B511SP313JBJA V62B511SP313JBLA
	10 mm/Elbow	C02471038					
V63	1/2" 12 mm/Straight	C02251248	T40C4800	81110800	0657868000000000	V63B517SP313JBNA V63B517SP313JBRA	V63B511SP313JBNA V63B511SP313JBRA
	12 mm/Elbow	C02471248					

For DIN standard plug change J for L

ELECTRICAL DETAILS FOR SOLENOID ACTUATED MODELS 22 mm Plugs according to Industrial Standard

	Connector	Cable length	Voltage		Features	MODEL
			a.c.	d.c.		
	Standard plug	-	-	-	-	0657868000000000
	Plug with moulded cable	1000 mm	250 V	250 V	-	M/P43313/1
	Plug with moulded cable	3000 mm	250 V	250 V	-	M/P43313/3
	Indicator plug	-	10 ... 50 V	10 ... 50 V	Lamp	M/P24121/1
	Indicator plug	-	70 ... 110 V	70 ... 250 V	Neon	M/P24121/2
	Plug with cable gland and indicator	-	150 ... 240 V	150 ... 240 V	Neon	M/P24121/3
	Indicator plug with moulded cable	1000 mm	24 V	24 V	LED,VDR	M/P43314/11
	Indicator plug with moulded cable	3000 mm	24 V	24 V	LED,VDR	M/P43314/13
	Indicator plug with moulded cable	1000 mm	110 V	110 V	LED,VDR	M/P43314/21
	Indicator plug with moulded cable	3000 mm	110 V	110 V	LED,VDR	M/P43314/23
	Indicator plug with moulded cable	1000 mm	220 V	220 V	LED,VDR	M/P43314/31
	Indicator plug with moulded cable	3000 mm	220 V	220 V	LED,VDR	M/P43314/33
	Light emitting gasket	-	12 ... 24 V	12 ... 24 V	Green LED	M/P40859
	Light emitting gasket	-	110 ... 120 V	110 ... 120 V	Green LED	M/P40886
	Light emitting gasket	-	220 ... 240 V	220 ... 240 V	Green LED	M/P40860

22 mm Plugs according to DIN EN 175301-803 - DIN 43650 B

	Connector	Cable length	Voltage		Features	MODEL
			a.c.	d.c.		
	Standard plug	-	12 ... 250 V	12 ... 250 V	-	0680003
	Standard plug	-	-	15 ... 30 V	LED, surge suppression	0664811
	Standard plug	-	150 ... 250 V	-	DIN 43650 B - glim lamp	0664812

22 mm coil industrial standard

Voltage	Coil code	Power inrush/hold	MODEL
24 V d.c.	13J	2 W	QM/48/13J/21
24 V 50/60 Hz	14J	4/2,5 VA	QM/48/14J/21
48 V 50/60 Hz	16J	4/2,5 VA	QM/48/16J/21
110/120 V 50/60 Hz	18J	4/2,5 VA	QM/48/18J/21
220/240 V 50/60 Hz	19J	6/5 VA	QM/48/19J/21

22 mm coil DIN EN 175 301-803 (DIN 43650 B)

Voltage	Coil code	Power inrush/hold	MODEL
24 V d.c.	13L	2 W	V10626-A13L
24 V 50/60 Hz	14L	4/2,5 VA	V10626-A14L
48 V 50/60 Hz	16L	4/2,5 VA	V10626-A16L
110/120 V 50/60 Hz	18L	4/2,5 VA	V10626-A18L
220/240 V 50/60 Hz	19L	6/5 VA	V10626-A19L

Connector plugs must be ordered separately

15 mm Plugs according to DIN EN 175301-803 - DIN 43650 C

	Connector	Cable length	Voltage		Features	MODEL
			a.c.	d.c.		
	Standard plug	-	12...250 V	12...250 V	-	0588666
	Standard plug	3 m	12...250 V	12...250 V	-	0102144

ELECTRICAL DETAILS FOR TWIN SOLENOID ACTUATED MODELS

Voltage tolerance:
±10%

Rating:
100% E.D.

Protection class:
IP 65 with sealed plugs (ISO 6952)

Double solenoid DIN EN 175 301-803 (DIN 43650 type C) 4 pin

Voltage	Coil code	Power inrush/hold	Manual override	MODEL
24 V d.c.	13 A	2 W	Push only	9031703900002400
24 V d.c.	13 A	2 W	Turn & lock	9031704900002400
24 V d.c.	13 A	2 W	Without	9031705900002400

Connector plugs must be ordered separately

Symbol	Plug no.	Function	Actuation
	1	(+)	12 (Solenoid 2)
	2	(-)	12 + 14
	3	(+)	14 (Solenoid 1)