

LEGEND:

KWV-... Complete Soft Seals Kit with springs, seals, and o-rings for main valve body (VITON seals**)

*** Camozzi's main "KW" Seal Kits do NOT include any coil interface components, nor any of the seals utilized in the solenoid operators, other than the main spool piston-diaphragm lip-seals.

NOTE: Spool included ONLY with Series E or 7 valves' kits, since they are a packed-spool design, with seals attached to spool body.

[illegible]

Valve Body or Main Part Number		
Series	Part Number w/ Description	SAP Code
3	334D-015-02 DOUBLE SOLENOID VALVES	20-5310-6200
3	334D-015-02 DOUBLE SOLENOID VALVES	20-5310-6200
3	334D-035 DOUBLE SPOOL VALVES	20-5310-3500
3	334D-035 DOUBLE SPOOL VALVES	20-5310-3500
3	334D-E15-02 DOUBLE SOLENOID VALVES	20-5310-6700
3	334D-E15-02 DOUBLE SOLENOID VALVES	20-5310-6700
3	334-E11-02 SOLENOID VALVES	20-5334-4700
3	334-E15-02 SOLENOID VALVES	20-5334-6700
3	344-015-02 SOLENOID VALVES	20-5344-6200
3	344-035 SPOOL VALVES	20-5344-3500
3	344D-015-02 DOUBLE SOLENOID VALVES	20-5312-6200
3	344D-015-02 DOUBLE SOLENOID VALVES	20-5312-6200
3	344D-035 DOUBLE SPOOL VALVES	20-5312-3500
3	344D-035 DOUBLE SPOOL VALVES	20-5312-3500
3	344D-E15-02 DOUBLE SOLENOID VALVES	20-5312-6700
3	344D-E15-02 DOUBLE SOLENOID VALVES	20-5312-6700
3	344-E15-02 SOLENOID VALVES	20-5344-6700
3	354-011-02 SOLENOID VALVES	20-5354-4200
3	354-015-02 SOLENOID VALVES	20-5354-6200
3	354-033 SPOOL VALVES	20-5354-3300
3	354-035 SPOOL VALVES	20-5354-3500
3	354-E11-02 SOLENOID VALVES	20-5354-4700
3	354-E15-02 SOLENOID VALVES	20-5354-6700
3	364-011-02 SOLENOID VALVES	20-5364-4200
3	364-033 SPOOL VALVES	20-5364-3300
3	364-E11-02 SOLENOID VALVES	20-5364-4700
3	374-011-02 SOLENOID VALVES	20-5374-4200
3	374-033 SPOOL VALVES	20-5374-3300
3	374-E11-02 SOLENOID VALVES	20-5374-4700
3	384-011-02 SOLENOID VALVES	20-5384-4200
3	384-033 SPOOL VALVES	20-5384-3300
3	384-E11-02 SOLENOID VALVES	20-5384-4700
3	394D-015-02 DOUBLE SOLENOID VALVES	20-5314-6200
3	394D-015-02 DOUBLE SOLENOID VALVES	20-5314-6200
3	394D-035 DOUBLE SPOOL VALVES	20-5314-3500
3	394D-035 DOUBLE SPOOL VALVES	20-5314-3500
3	394D-E15-02 DOUBLE SOLENOID VALVES	20-5314-6700
3	394D-E15-02 DOUBLE SOLENOID VALVES	20-5314-6700
4	432C-015 SOLENOID VALVE	20-6432-6100

Main Spare Parts Kit*** (Internal Parts)	
Main Kit Part Number	SAP Code
KW-334D	60HM100-5310
KW-334D	60HM100-5310
KW-334D	60HM100-5310
KW-354-015	60HM100-5354
KW-354-015	60HM100-5354
KW-354-015	60HM100-5354
KW-354-015	60HM100-5354
KW-334D	60HM100-5310
KW-334D	60HM100-5310
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KW-364-011	60HM100-5364
KW-334D	60HM100-5310
KW-334D	60HM100-5310
KW-334D	60HM100-5310
KW-452	60HM100-6452

Add'l Spare Parts Kit (Electric Pilot or Coil Plunger)	
Secondary Kit Part Number	SAP Code
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
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KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131

4	454-011-22IL SOLENOID VALVE	20-5454-420002
4	454-011-294 MECHANICAL OPERATED SENSOR VALVE	30-5454-1294
4	454-011-295 MECHANICAL OPERATED SENSOR VALVE	30-5454-1295
4	454-015-194 MECHANICAL OPERATED SENSOR VALVE	30-5454-1194
4	454-015-195 MECHANICAL OPERATED SENSOR VALVE	30-5454-1195
4	454-015-22 SOLENOID VALVE	20-5454-6200
4	454-015-22IL SOLENOID VALVE	20-5454-620002
4	454-016-22 SOLENOID VALVE	20-5454-7200
4	454-016-22IL SOLENOID VALVE	20-5454-720001
4	454-33 SPOOL VALVE	20-5454-3300
4	454-34 SPOOL VALVE	20-5454-3400
4	454-35 SPOOL VALVE	20-5454-3500
4	454-900 SPOOL VALVE	30-5454-2900
4	454-905 SPOOL VALVE	30-5454-2905
4	454-910 SPOOL VALVE	30-5454-2910
4	454-915 SPOOL VALVE	30-5454-2915
4	454-915 SPOOL VALVE	30-5454-2915
4	454-V11 SOLENOID VALVE	20-5454-4400
4	454-V11-22 SOLENOID VALVE	20-5454-4300
4	454-V15 SOLENOID VALVE	20-5454-6400
4	454-V15-22 SOLENOID VALVE	20-5454-6300
4	454-V16-22 SOLENOID VALVE	20-5454-7300
4	458-011-22 SOLENOID VALVE	20-4458-4200
4	458-011-22IL SOLENOID VALVE	20-4458-420004
4	458-011-294 MECHANICAL OPERATED SENSOR VALVE	30-4458-1294
4	458-011-295 MECHANICAL OPERATED SENSOR VALVE	30-4458-1295
4	458-015-194 MECHANICAL OPERATED SENSOR VALVE	30-4458-1194
4	458-015-195 MECHANICAL OPERATED SENSOR VALVE	30-4458-1195
4	458-015-22 SOLENOID VALVE	20-4458-6200
4	458-015-22IL SOLENOID VALVE	20-4458-620006
4	458-016-22 SPOOL VALVE	20-4458-7200
4	458-016-22IL SOLENOID VALVE	20-4458-720002
4	458-33 SPOOL VALVE	20-4458-3300
4	458-34 SPOOL VALVE	20-4458-3400
4	458-35 SPOOL VALVE	20-4458-3500
4	464-011-22 SOLENOID VALVE	20-5464-4200
4	464-011-22IL SOLENOID VALVE	20-5464-420002

KW-454	60HM100-5454
KW-454	60HM100-5454
KW-454	60HM100-5454
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KW-458	60HM100-4458
KW-464-474	60HM100-5464
KW-464-474	60HM100-5464

KW-A131	60HM100-A131
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KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131

[illegible]

	Valve Body or Main Part Number	
Series	Part Number w/ Description	SAP Code

6	623-15E-A6D SOLENOID VALVE	20-1623-1354
6	623-15E-A6E SOLENOID VALVE	20-1623-1355
6	623-15E-A6E SOLENOID VALVE	20-1623-1355
6	623-15F-A62 SOLENOID VALVE	20-1623-1456
6	623-15F-A62 SOLENOID VALVE	20-1623-1456
6	623-15F-A63 SOLENOID VALVE	20-1623-1451
6	623-15F-A63 SOLENOID VALVE	20-1623-1451
6	623-15F-A64 SOLENOID VALVE	20-1623-1458
6	623-15F-A64 SOLENOID VALVE	20-1623-1458
6	623-15F-A66 SOLENOID VALVE	20-1623-1459
6	623-15F-A66 SOLENOID VALVE	20-1623-1459
6	623-15F-A6B SOLENOID VALVE	20-1623-1453
6	623-15F-A6B SOLENOID VALVE	20-1623-1453
6	623-15F-A6C SOLENOID VALVE	20-1623-1457
6	623-15F-A6C SOLENOID VALVE	20-1623-1457
6	623-15F-A6D SOLENOID VALVE	20-1623-1454
6	623-15F-A6D SOLENOID VALVE	20-1623-1454
6	623-15F-A6E SOLENOID VALVE	20-1623-1455
6	623-15F-A6E SOLENOID VALVE	20-1623-1455
6	623-15F-A6N SOLENOID VALVE	20-1623-145A
6	623-15F-A6N SOLENOID VALVE	20-1623-145A
6	623-15G-A62 SOLENOID VALVE	20-1623-1556
6	623-15G-A62 SOLENOID VALVE	20-1623-1556
6	623-15G-A63 SOLENOID VALVE	20-1623-1551
6	623-15G-A63 SOLENOID VALVE	20-1623-1551
6	623-15G-A66 SOLENOID VALVE	623-15G-A66
6	623-15G-A66 SOLENOID VALVE	623-15G-A66
6	623-15G-A6B SOLENOID VALVE	20-1623-1553
6	623-15G-A6B SOLENOID VALVE	20-1623-1553
6	623-15G-A6C SOLENOID VALVE	20-1623-1557
6	623-15G-A6C SOLENOID VALVE	20-1623-1557
6	623-15G-A6D SOLENOID VALVE	20-1623-1554
6	623-15G-A6D SOLENOID VALVE	20-1623-1554
6	623-15G-A6E SOLENOID VALVE	20-1623-1555
6	623-15G-A6E SOLENOID VALVE	20-1623-1555
6	638-150-A62 SOLENOID VALVE	20-1638-1256
6	638-150-A63 SOLENOID VALVE	20-1638-1251
6	638-150-A64 SOLENOID VALVE	20-1638-1258
6	638-150-A66 SOLENOID VALVE	20-1638-1259
6	638-150-A6B SOLENOID VALVE	20-1638-1253
6	638-150-A6C SOLENOID VALVE	20-1638-1257
6	638-150-A6D SOLENOID VALVE	20-1638-1254
6	638-150-A6E SOLENOID VALVE	20-1638-1255
6	638-150-A6F SOLENOID VALVE	20-1638-1258
6	638M-101-A62 SOLENOID VALVE	20-1701-1156
6	638M-101-A63 SOLENOID VALVE	20-1701-1151
6	638M-101-A64 SOLENOID VALVE	20-1701-1158
6	638M-101-A66 SOLENOID VALVE	20-1701-1159
6	638M-101-A6B SOLENOID VALVE	20-1701-1153
6	638M-101-A6C SOLENOID VALVE	20-1701-1157
6	638M-101-A6D SOLENOID VALVE	20-1701-1154
6	638M-101-A6E SOLENOID VALVE	20-1701-1155

Main Spare Parts Kit*** (Internal Parts)	
Main Kit Part Number	SAP Code

[illegible]

Add'l Spare Parts Kit (Electric Pilot or Coil Plunger)	
Secondary Kit Part Number	SAP Code

[illegible]

	Valve Body or Main Part Number	
Series	Part Number w/ Description	SAP Code
9	952-000-34 SPOOL VALVE	20-5952-3400
9	952-000-35 SPOOL VALVE	20-5952-3500
9	952-000-P11-23 SOLENOID VALVE	20-5952-4200
9	952-000-P15-23 SOLENOID VALVE	20-5952-6200
9	952-000-P16-23 SOLENOID VALVE	20-5952-7200
9	953-000-33 SPOOL VALVE	20-6953-3300
9	953-000-34 SPOOL VALVE	20-6953-3400
9	953-000-35 SPOOL VALVE	20-6953-3500
9	953-000-P11-23 SOLENOID VALVE	20-6953-4200
9	953-000-P15-23 SOLENOID VALVE	20-6953-6200
9	953-000-P16-23 SOLENOID VALVE	20-6953-7200
9	961-000-33 SPOOL VALVE	20-4961-3300
9	961-000-P11-23 SOLENOID VALVE	20-4961-4200
9	962-000-33 SPOOL VALVE	20-5962-3300
9	962-000-P11-23 SOLENOID VALVE	20-5962-4200
9	963-000-33 SPOOL VALVE	20-6963-3300
9	963-000-P11-23 SOLENOID VALVE	20-6963-4200
9	971-000-33 SPOOL VALVE	20-4971-3300
9	971-000-P11-23 SOLENOID VALVE	20-4971-4200
9	972-000-33 SPOOL VALVE	20-5972-3300
9	972-000-P11-23 SOLENOID VALVE	20-5972-4200
9	973-000-33 SPOOL VALVE	20-6973-3300
9	973-000-P11-23 SOLENOID VALVE	20-6973-4200
A	A131-AC2 SOLENOID VALVE	20-0211-0200
A	A231-BC2 SOLENOID VALVE	20-0221-0300
A	A321-0C2 SOLENOID VALVE	20-0321-1000
A	A321-1C2 SOLENOID VALVE	20-0321-1100
A	A321-1D2 SOLENOID VALVE	20-0321-1200
A	A321-1E2 SOLENOID VALVE	20-0321-1300
A	A322-0C2 SOLENOID VALVE	20-0322-1000
A	A322-1C2 SOLENOID VALVE	20-0322-1100
A	A331-0C2 SOLENOID VALVE	20-0331-1000
A	A331-1C2 SOLENOID VALVE	20-0331-1100
A	A331-3C2 SOLENOID VALVE	20-0331-1800
A	A331-4C2 SOLENOID VALVE	20-0331-1900
A	A332-0C2 SOLENOID VALVE	20-0332-1000
A	A332-1C2 SOLENOID VALVE	20-0332-1100
A	A431-1C2 SOLENOID VALVE	20-0341-1100
A	A531-BC2 SOLENOID VALVE	20-0251-0300
A	A631-AC2 SOLENOID VALVE	20-0261-0200
A	A731-AC2 SOLENOID VALVE	20-0271-0200
A	AA31-0C2 SOLENOID VALVE	20-0501-1000
A	AA31-0C3 SOLENOID VALVE	20-0501-1300
A	AA31-CC2 SOLENOID VALVE	20-0501-2000
A	AA31-CC3 SOLENOID VALVE	20-0501-2300
E	E530-11-15-P53 SOLENOID VALVES	20-7030-4861
E	E530-16-15-P53 SOLENOID VALVES	20-7030-7861
E	E530-33 SPOOL VALVES	20-7030-3300
E	E530-36 SPOOL VALVES	20-7030-3600
E	E531-11-15-P53 SOLENOID VALVES	20-7031-4861
E	E531-16-15-P53 SOLENOID VALVES	20-7031-7861
E	E531-33 SPOOL VALVES	20-7031-3300

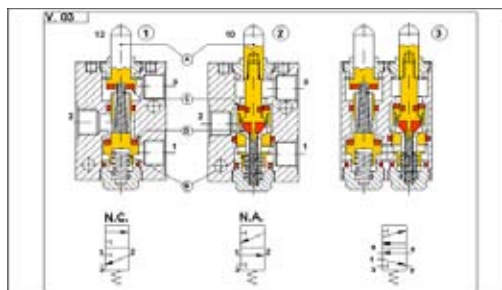
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Add'l Spare Parts Kit (Electric Pilot or Coil Plunger)	
Secondary Kit Part Number	SAP Code
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
KW-A131	60HM100-A131
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KW-A131	60HM100-A131
A332-1C2-125C	60H4602-0002
A332-1C2-125C	60H4602-0002
P000-303-P53	20-2000-3361
P000-303-P53	20-2000-3361
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P000-303-P53	20-2000-3361

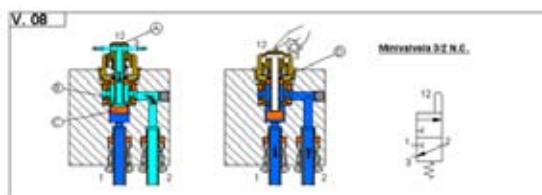
Valve Construction Guide

Series, Function, and Spool/Poppet Construction

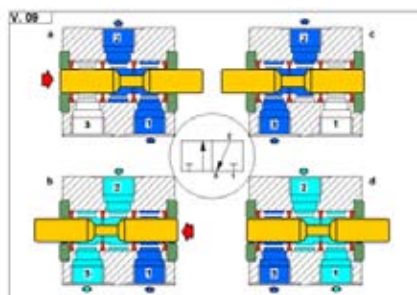
Series 1 - Poppet Construction: 3-way/2-position Normally Closed, 3-way/2-position Normally Open, 5-way/2-position



Series 2 & Logic Functions - Poppet Construction: 3-way/2-position Normally Closed, 3-way/2-position Normally Open, 5-way/3-position

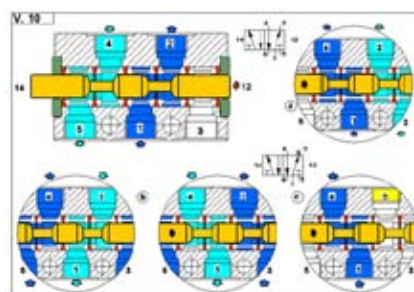


Series 3 - Packed Bore - Spool Construction: 3-way/2-position Normally Closed, 3-way/2-position Normally Open



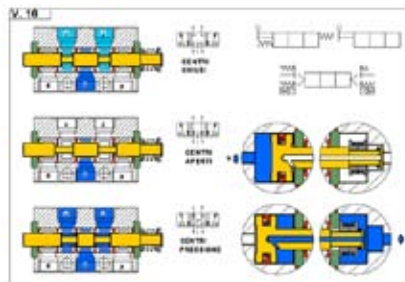
** All Series 3 valves are equipped with flat geometric ring seals in the packed bore construction, (A wider flat edged portion of the seal ring seals against the external packing spacers and valve inner body, while a thinner rounded lip seals against the spool surface). The design offers significantly improved sealing over traditional o-rings or oval rings, especially between differing surface geometries, such as spools and packing glands.

Series 3 - Packed Bore - Spool Construction: 5-way/2-position

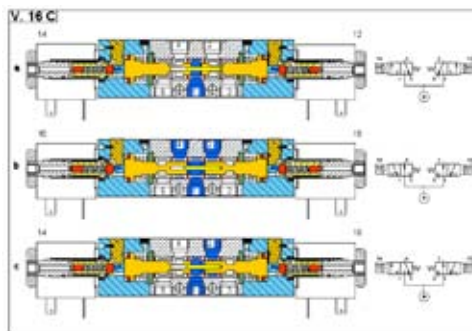


** All Series 3 valves are equipped with flat geometric ring seals in the packed bore construction, (A wider flat edged portion of the seal ring seals against the external packing spacers and valve inner body, while a thinner rounded lip seals against the spool surface). The design offers significantly improved sealing over traditional o-rings or oval rings, especially between differing surface geometries, such as spools and packing glands.

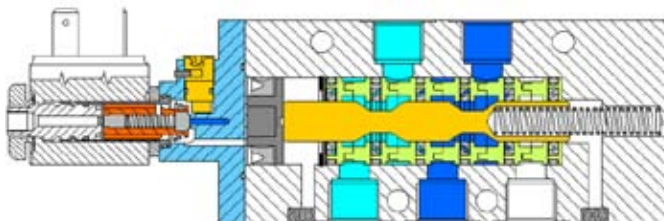
Series 3 - Packed Bore - Spool Construction:
5-way/3-position (Center Closed, Center Open/
Exhausting, Pressure Center)



Series 3 - Packed Bore - Spool Construction: Dual
3-way/2-position (NC/NC, NO/NO, NC/NO)

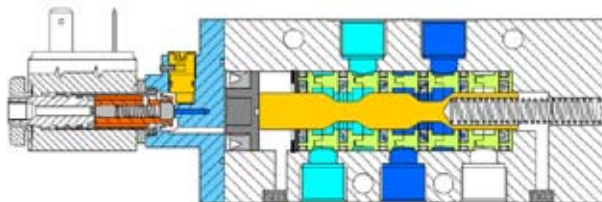


Series 4 - Packed Bore - Spool Construction: Dual
5-way/2-position (general design)



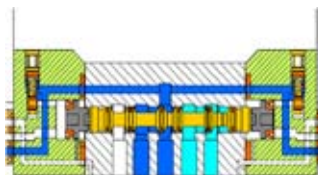
** All Series 4 valves are equipped with dual seals in the packed bore construction, (O-rings around external packing glands, and dual lip "airzet" seals around the spool body for improved performance in both vacuum and more rigorous media sealing situations).

Series 4 - Packed Bore - Spool Construction: Dual
5-way/2-position (general design)



** All Series 4 valves are equipped with dual seals in the packed bore construction, (O-rings around external packing glands, and dual lip "airzet" seals around the spool body for improved performance in both vacuum and more rigorous media sealing situations).

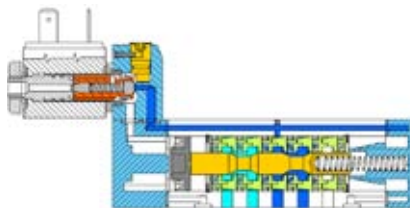
Series 7 (ISO 15407-1 Standard)- Packed Spool Construction, Manifold Assembly



5-way / 2-position, 5-way / 3-position - Center Closed, Center Open/Exhausting, & Pressure Center

** All Series 7 valves offer a balanced packed-spool design. This design permits a customized seal geometry to be fitted onto the spool directly. Benefits are less vulnerability to "varnishing" and/or contamination due to smaller seal contact area with the valve bore. Maintenance is reduced due to less parts and labor required to repair, while providing increased seal life and leak-free performance.

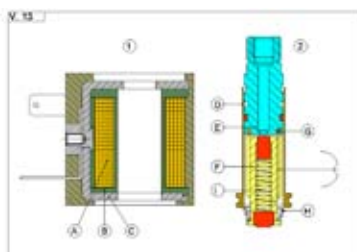
Series 9 (ISO 5599/1 Standard)- Packed-Bore Spool Construction, Manifold Assembly



5/2 - way/position, 5/3 Center Closed & Centers Open / Exhausting

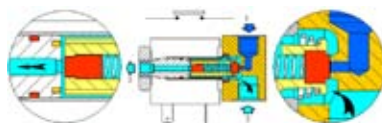
** All Series 9 valves are equipped with dual seals in the packed bore construction, (O-rings around external packing glands, and dual lip "airzet" seals around the spool body for improved performance in both vacuum and more rigorous media sealing situations).

Series A and Series 600 Kits - comprised of coil plunger, (or solenoid armature), and plunger o-rings.



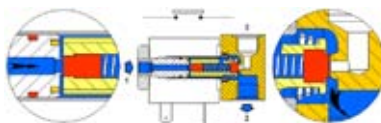
Basic Series A/U or 600 coil plunger, (armature assembly)

Series A / Series 6 - Directly Operated Solenoid valve with M5 (10-32 UNF), 1/8" ports, or 4mm OD (5/32" OD tube)



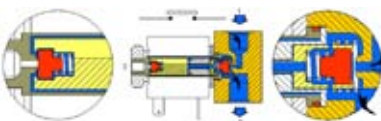
3-way/ 2-position Normally Closed, (shown with coil De-Energized)

Series A / Series 6 - Directly Operated Solenoid valve with M5 (10-32 UNF), 1/8" ports, or 4mm OD (5/32" OD tube)



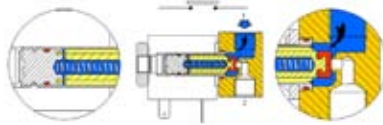
3-way/ 2-position Normally Open, Reverse Ported (shown with coil De-Energized)

Series A / Series 6 - Directly Operated Solenoid valve with M5 (10-32 UNF), 1/8" ports, or 4mm OD (5/32" OD tube)



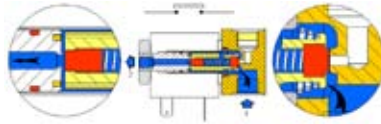
3-way/ 2-position Normally Open, Manifold or Stand-Alone w/ Common Inlet (shown with coil De-Energized)

Series A / Series 6 - Directly Operated Solenoid valve with M5 (10-32 UNF), 1/8" ports, or 4mm OD (5/32" OD tube)



2-way/2-position Normally Closed, (shown with coil De-Energized)

Series A / Series 6 - Directly Operated Solenoid valve with M5 (10-32 UNF), 1/8" ports, or 4mm OD (5/32" OD tube)



2-way/2-position Normally Open, (shown with coil De-Energized)

Series E - Packed Spool Construction, Manifold Assembly



5-way/2-position, 5-way/3-position - Center Closed, Center Open/Exhausting, & Pressure Center

** All Series E valves offer a balanced packed-spool design. This design permits a customized seal geometry to be fitted onto the spool directly. Benefits are less vulnerability to "varnishing" and/or contamination due to smaller seal contact area with the valve bore. Maintenance is reduced due to less parts and labor required to repair, while providing increased seal life and leak-free performance.

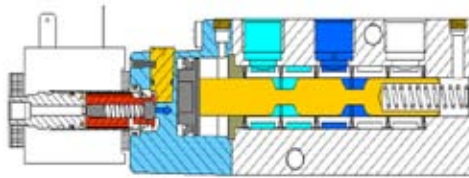
Series E - Packed Spool Construction, In-line Assembly



5-way/2-position, 5-way/3-position - Center Closed, Center Open/Exhausting, & Pressure Center

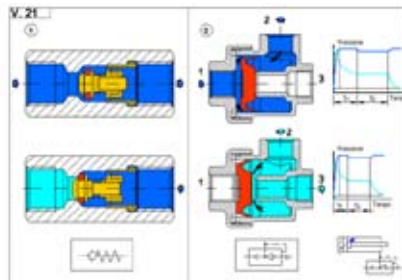
Series NA (NAMUR Interface)- Packed-Bore Spool Construction

3-way/2-position Normally Closed, 3-way/2-position Normally Open, 5/2, 5/3 Center Closed, 5/3 Center Open/Exhausting, 5/3 Pressure Center

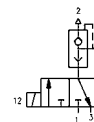


** All Series NA-NAMUR valves are equipped with flat geometric ring seals in the packed bore construction, (A wider flat edged portion of the seal ring seals against the external packing spacers and valve inner body, while a thinner rounded lip seals against the spool surface). The design offers significantly improved sealing over traditional o-rings or oval rings, especially between differing surface geometries, such as spools and packing glands.

Series VNR, SCS & VSC Valves - Poppet Design Check, Shuttle, and Quick-Exhaust Valves



Pneumatic Symbols

DIRECTLY OPERATED SOLENOID VALVES MONOSTABLE	
	3/2 N.C. mechanical spring return
	3/2 N.C. mechanical spring return with manual override
	3/2 N.O. mechanical spring return
	3/2 N.O. mechanical spring return with manual override
	2/2 N.C. mechanical spring return
	2/2 N.C. mechanical spring return with manual override
	2/2 N.O. mechanical spring return
	2/2 N.O. mechanical spring return with manual override
	3/2 N.C. mechanical spring return quick exhaust

ELECTRO-PNEUMATICALLY OPERATED VALVES MONOSTABLE	
	3/2 N.C. mechanical spring return with manual override
	2/2 N.C. mechanical spring return with manual override
	3/2 N.O. mechanical spring return with manual override
	2/2 N.O. mechanical spring return with manual override
	3/2 N.C. pneumatic spring return with manual override
	2/2 N.C. pneumatic spring return with manual override
	3/2 N.O. pneumatic spring return with manual override

	2/2 N.O. pneumatic spring return with manual override
	5/2 mechanical spring return with manual override
	5/2 pneumatic spring return with manual override
	5/3 centers closed, electropneumatic return with manual override
	5/3 centers open, electropneumatic return with manual override
	5/3 pressure center, electropneumatic return with manual override

ELECTRO-PNEUMATICALLY OPERATED VALVES BISTABLE	
	3/2 with manual override
	2/2 with manual override
	electropneumatic return, 5/2 bistable, with manual override

PNEUMATICALLY OPERATED VALVES - MONOSTABLE	
	3/2 N.C. mechanical spring return
	3/2 N.A. mechanical spring return
	2/2 N.C. mechanical spring return
	2/2 N.A. mechanical spring return
	3/2 N.C. pneumatic return
	5/2 monostable mechanical spring return
	5/2 pneumatic return
	5/3 centers closed pneumatic return

	5/3 centers open pneumatic return
	5/3 pressure centers pneumatic return

PNEUMATICALLY OPERATED VALVES - BISTABLE	
	3/2
	2/2
	3/2 differential pneum. return
	2/2 differential pneum. return
	2/2 differential pneum. return
	5/2
	5/2 differential pneum. return

MANUALLY OPERATED VALVES MONOSTABLE	
	3/2 N.C. button operated mechanical spring return
	3/2 N.O. button operated mechanical spring return
	2/2 N.C. button operated mechanical spring return
	2/2 N.O. button operated mechanical spring return
	5/2 button operated mechanical spring return
	3/2 N.C. lever operated mechanical spring return
	3/2 N.O. lever operated mechanical spring return
	2/2 N.C. lever operated mechanical spring return

	2/2 N.O. lever operated mechanical spring return
	5/2 lever operated mechanical spring return
	5/3 centers closed, lever operated mechanical spring return
	5/3 centers open, lever operated mechanical spring return
	5/3 pressure center, lever operated mechanical spring return
	3/2 N.C. pedal operated mechanical spring return
	5/2 pedal operated mechanical spring return

MANUALLY OPERATED VALVES BISTABLE	
	3/2 push-pull button operated
	2/2 push-pull button operated
	5/2 push-pull button operated
	3/2 lever operated
	2/2 lever operated
	5/2 lever operated
	5/3 centers closed lever operated
	5/3 centers open lever operated
	5/3 pressure centers lever operated
	5/2 pedal operated
	5/2
	3/2

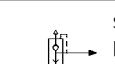
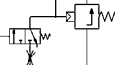
MECHANICALLY OPERATED VALVES - MONOSTABLE	
	3/2 N.C. plunger operated mechanical spring return
	3/2 N.O. plunger operated mechanical spring return
	5/2 plunger operated mechanical spring return
	3/2 N.C. roller operated mechanical spring return
	3/2 N.O. roller operated mechanical spring return
	5/2 roller operated mechanical spring return
	3/2 N.C. roller operated unidirectional mechanical spring return
	3/2 N.O. roller operated unidirectional mechanical spring return
	5/2 roller operated unidirectional mechanical spring return

MANUAL/MECHANICALLY OPERATED SENSITIVE	
	3/2 N.O. lever operated mechanical spring return
	3/2 N.C. lever operated mechanical spring return
	5/2 lever operated mechanical spring return
	5/2 lever operated mechanical spring return
	5/2 lever operated mechanical spring return

MANUAL/MECHANICALLY OPERATED SENSITIVE VALV. BISTABLE	
	5/2 plunger operated, plunger return
	5/2 roller operated plunger return

LOGIC VALVES	
	"AND" pneumatic symbol
	"AND" logical symbol
	"OR" pneumatic symbol
	"OR" logical symbol
	"NOT" pneumatic symbol
	"NOT" logical symbol
	"YES" pneumatic symbol
	"YES" logical symbol
	"memory" pneumatic symbol
	"memory" logical symbol

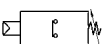
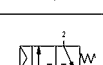
AUTOMATIC VALVES, FLOW REGULATORS AND SILENCERS	
	non return valves
	Quick exhaust valves
	directional flow control valve
	unidirectional blocking valves VBU
	bidirectional blocking valves VBO
	unidirectional flow control valve
	silencer

AIR PREPARATION	
	filter with standard drain
	pressure regulator relieving
	pressure regulator relieving and pressure gauge
	lubricator
	lockable isolation valve manually operated
	lockable isolation valve electropneumatically operated
	lockable isolation valve pneumatically operated
	soft start valve pneumatically operated
	soft start valve electropneumatically operated

CYLINDERS - SINGLE ACTING	
	single-acting cylinder front spring
	single-acting cylinder front spring magnetic
	single-acting cylinder rear spring
	single-acting cylinder rear spring magnetic
	single-acting cylinder through-rod
	single-acting cylinder through-rod

CYLINDERS DOUBLE-ACTING	
	double-acting cylinder non adjustable cushioning
	double-acting cylinder non adjustable cushioning magnetic
	double-acting cylinder adjustable cushioning
	double-acting cylinder adjustable cushioning magnetic
	double-acting cylinder through-rod non adjustable cushioning
	double-acting cylinder magnetic, through rod non adjustable cushioning
	double-acting cylinder through-rod adjustable cushioning
	double-acting cylinder through-rod magnetic, adjustable cushioning
	rodless cylinder double-acting magnetic, adjustable cushioning

ROTARY CYLINDERS	
	rotary cylinders double-acting

PRESSURE SWITCHES, INDICATOR AND AMPLIFIER	
	N.C. pressure switch
	N.O. pressure switch
	pressure switch changeover contact
	pressure indicator
	3/2 N.C. pneumatic amplifier

COUPLINGS	
	
	
	

VALVES	
	monostable manual override
	bistable manual override

