Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Балговещенск (4162)22-76-07 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Владикавказ (8672)249-28-31 Владикавказ (8672)249-03-48 Волгоград (8412)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калининград (4012)72-03-81 Калининград (4012)72-03-81 Корово (3842)65-04-62 Киров (832)68-02-04 Копомна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курсак (4712)77-13-04 Курган (3522)50-90-47 Липецк (4742)52-20-81

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Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Ноябрьск (343)20-46-81 Ноябрьск (3496)41-32-12 Новосибирск (343)227-86-73 Омск (342)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Петрозаводск (8142)5-98-37 Псков (8112)59-10-37 Пермь (342)205-81-47

Казахстан +7(7172)727-132

Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Саранск (8342)22-96-24 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Сыктывкар (8212)25-95-17 Тамбов (4752)50-40-97 Тверь (4822)63-31-35 Тольятти (8482)63-91-07 Томск (3822)84-1-53 Тула (4872)33-79-87 Тюмень (3452)66-21-18 Улановск (8422)24-23-59 Улан-Удэ (3012)59-97-51 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чербоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93

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DG3V-7, 20 Series, Pilot Operated DG5V-7, 40 Series, Solenoid Controlled, Pilot Operated ISO 4401 Size 07

Typical Section

DG5V-7-2C Spring-Centered Valve Example

Basic Characteristics

Mounting Surface mounting Max. pressure 350 bar (5000 psi) Max. flow 300 L/min (80 USgpm)

General Description

DG*V-7 valves are used primarily for controlling the starting, stopping and direction of fluid flow.

Two series of valves, DG5V solenoid controlled, pilot operated and DG3V pilot operated models are available with a choice of 18 different spools. These include meter-in and meter-out spools and a regeneration type that can obviate extra valves essential in traditional circuit arrangements. All spools have been designed to provide good low shock, fast response characteristics which can be enhanced by optional stroke and/or pilot choke adjustments. Models include spring offset, spring centered, pressure centered and detented versions. All are available with the option of an integral P-port pilot pressure generator. DG5V valves can be arranged for internal or external pilot pressure and/or drain connections.

Features and Benefits

- High pressure and flow capability for maximum cost-effectiveness.
- Low headloss to minimize power wastage.
- Low shock characteristics to maximize machine life.
- Facility to change solenoid coils without disturbing the hydraulic envelope.
- The many optional features, particularly for DG5V valves, permit matching to virtually every application within the valve's power capacity.

DG3V-7 Pilot Operated Models

Comprehensive and simplified symbols.

Spring Offset, End-to-End, DG3V-7-*A



Spring Centered, DG3V-7-*C Spool types: All ▲







DG3V-7 Options

The following are shown in a DG3V-7-*C example:

- 1. Pilot choke module
- 2. Minimum pilot pressure generator
- Stroke adjusters at either or at both ends (shown at both ends in example)

One or more options can be built into any DG3 series valve.



DG5V-7, Solenoid Controlled, Pilot Operated Models

Comprehensive and simplified symbols, shown configured for external pilot supply and internal drain.

Spring Offset, End-to-End, DG5V-7-*A



Spring Offset, End-to-End, **Opposite Hand, DG5V-7-*AL** Spool types: 0, 2, 6, 9, 52, 521, X2**▲**, Y2**▲** b 0 а Х Р Т B A Y, İ, A В ∿Þ b а

PIT

- "a" and "b" interchanged for spool types 4 and 8.
- "X" and "Y" spools require a stroke adjuster at one or both ends, dependent on the application, to limit stroke towards "a" and/or "b".



Pressure Centered, DG5V-7-*D Spool types: All

Υ

Ρ



 Spring Offset, End-to-Center,

 Opposite Hand

 Models
 Spool types

 DG5V-7-*B
 4, 8

 DG5V-7-*BL
 0, 2, 52, 521, X2▲, Y2▲



Detented, DG5V-7-*N Spool types: 0, 2, 6, 9, 52, 521, X2▲, Y2▲



Spring Centered, DG5V-7-*C Spool types: All



DG5V-7 Options

The following are shown in a DG5V-7-*C example:

- 1. Pilot choke module
- 2. Minimum pilot pressure generator
- Stroke adjusters, at either or at both ends (shown at both ends in example)
- 4. External pilot connection
- 5. Internal drain

One or more options can be built into any DG5 series valve, the only exception being that the internal drain option is not available with DG5V-7-*D (pressure centered) valves.



- "a" and "b" interchanged for spool types 4 and 8.
- ▲ "X" and "Y" spools require a stroke adjuster at one or both ends, dependent on the application, to limit stroke towards "a" and/or "b".

Symbols on Nameplates

Typical illustrations for:

DG3V-7-2D-1





1. On main stage 2. On cover plate

1. On main stage 3. On pilot choke module

4. On pilot stage valve

Notes:

- a. For clarity pilot lines (dotted lines in illustrations) are omitted from the main-stage nameplate. b. Where a minimum pilot pressure generator (check valve symbol) is provided the letter P is
- omitted from the nameplate for clarity.

Spool Types

Shown in 3-position form, plus 2 transients



Notes:

- In the detailed and simplified symbols on this and the previous pages, the transient positions are omitted for simplicity.
 In certain 2-position valves, the "o" position
- In certain 2-position valves, the "o" position becomes an additional transient, i.e. in DG5V-7-*A(L) and DG5V-7-*N valves.
- ▲ The performance of the "33" and "34" spools differ only in the center position. Your Vickers representative can provide further details.

Pilot Pressure

- a. Pilot pressure must always exceed tank line pressure by at least the requisite minimum pilot pressure. This also applies when combining open-center spools (0, 1, 4, 8, 9 and 11) with internal pilot pressure, but they should be used only with externally drained valves.
- b. Internally drained valves may be used only when surges in the tank line cannot possibly overcome the minimum pilot pressure differential referred to above. When the possibility of pressure surges in the tank line exist, externally drained valves are recommended.
- c. When DG5V-7-*N valves are de-energized the pilot and main spools remain in the last selected position, provided that pilot pressure is maintained. If pilot pressure fails, or falls below the minimum, the main spool will spring center.

Caution: Because of this in-built feature the flow conditions of the center position must be selected with care, for the effect on both the direction of flow and the pilot pressure.

Minimum-Pilot-Pressure Generator Option

Can be built into the P-port to create a minimum pilot pressure differential of 0,35 bar (5 psi) where internal pilot pressure is required with open-centered spools, i.e. 0, 1, 4, 8, 9 and 11.

Stroke Adjustment Options

These control the maximum opening of the main spool/body passages by adjusting the limits of spool stroke. By this means, the response time and the pressure drop across the valve for any particular flow rate can be controlled. Stroke adjusters can be fitted at either or both ends of the main-stage valve for adjusting the stroke in one or both directions. One use of stroke adjusters is for controlling the metering characteristics of "X*" or "Y*"-type spools. (See model code 4.)

Pilot Choke Adjustment Options

These provide a meter-out flow control system to the fluid in the pilot chambers of main-stage valves. It allows the velocity of the main-stage spool to be controlled, thereby reducing transient shock condition. For optimum results, a constant reduced pilot pressure is recommended.

Control Data, General

- a. Dependent on the application and the system filtration, any sliding spool valve, if held shifted under pressure for long periods of time, may stick and not move readily due to fluid residue formation. It may therefore need to be cycled periodically to prevent this from happening.
- b. Surges of fluid in a common drain line serving two or more valves can be of sufficient magnitude to cause inadvertent shifting of the spools. It is recommended that circuit protection be used, such as separate drain lines.
- c. Control by stroke adjusters, pilot chokes and minimum-pilot-pressure generator options is described on this page.

For pilot operated valves:



For solenoid controlled, pilot operated valves:

(F3-) DG5V-7-* ** (-**) (-E)(-T)(-K) (-*)- (V) M-***** (L) 6 1 4 5 10 11

7

1 Fluid compatibility

- Blank = Antiwear hydraulic oil (class L-HM), invert emulsion (class L-HFB), or water glycol (class L-HFC)
- F3 = As above or phosphate ester (class L-HFD)
- Note: For further information see "Hydraulic Fluids" section on page A.12.

2 Spool type

See "Functional Symbols" section on page A.2.

3 Spool spring arrangement

- A = Spring offset, end-to-end (P to B when operated)
- AL = As "A" but left-hand build (P to A when operated)
- B = Spring offset, end-to-center (P to B when operated)
- BL = As "B" but left-hand build (P to A when operated)■
- C = Spring centered
- = Pressure centered D
- N = Two-position detented
- DG5V option. Same function from DG3V-7-*C valves by alternating pilot supply to one port (X or Y) and permanently draining the other.

4 Spool control

- 1 = Stroke adjustment at both ends
- = Pilot choke adjustment both ends 2
- 3 = "1" and "2" combined
 - = Stroke adjustment, port A end only \blacklozenge
- 8 = Stroke adjustment, port B end only▼
- 27 = "2" and "7" combined▼
- 28 = "2" and "8" combined ◆
- Omit if not required
- Not applicable to DG5V-7-*B(L) models. Not applicable to models shown in the "Spring offset, end-to-center, opposite hand" section on page A.3.
- Not applicable to models shown in the "Spring offset, end-to-center" section on page A.3.
- 5 External pilot supply, DG5V valve option

Omit for internal pilot supply

6 Internal pilot drain, **DG5V** valve option

Omit for external drain, which is also mandatory for 1, 4, 8 and 9 spool-type valves

7 Minimum-pilot-pressure

generator ("P" port option)

K = 0,35 bar (5 psi) cracking pressure Omit if not required

8 Manual override option

- Blank = Plain override in solenoid end(s) only▲
- = Water-resistant manual override on solenoid end(s)
- 7 = No override at either end
- No override in non-solenoid end of single-solenoid valves.

9 Solenoid energization identity

= Solenoid "A" is at port A end of pilot valve and/or solenoid "B" at port B end independent of main-stage valve port locations or spool type; German practice.

Omit (except as noted below) for US ANSI B93.9 standard whereby solenoid "A" is that which, when energized, connects P to A in main-stage valve, and/or solenoid "B" connects P to B.

Note: Energization identities on valves with type 4 or 8 spools are identical under US and German practices. In such cases the "V" code is used.

10 Sc	oler	oid type/connection(s)
U	=	ISO 4400 (DIN 43650)
FW	=	mounting ■ ¹ / ₂ ″ NPT thread junction
FTW	=	box $1/2^{"}$ NPT thread junction
		box and terminal strip
FJ	=	M20 thread junction box
FTJ	=	M20 thread junction box
		and terminal strip
FPA3V	V=	Junction box with 3-pin
		male connector♦ to
		NEPA T3 5 29-1980 for

- single-solenoid valves FPA5W = Junction box with 5-pin male connector♦ to NFPA T3.5.29-1980 for single or double-solenoid valves
- Some female plug connector options available separately from Vickers Systems (see "Plugs for ISO 4400" on page A.16). Others available from electrical stockists.
- Female connector to be supplied by user.

11 Indicator lights, option for codes FTJ, FTW, FPA3W and FPA5W in 10

L = Lights fitted Omit if lights not required

For U-code solenoids use plug with integral light, see page A.16.

12 Coil rating

See "Operating Data" on page A.8 for further information.

- A = 110V AC 50 Hz
- B♦= 110V AC 50 Hz/
- 120V AC 60 Hz
- C = 220V AC 50 Hz
- D◆= 220V AC 50 Hz/ 240V AC 60 Hz
- G = 12V DC
- H = 24V DC
- For 60 Hz or dual frequency.

13 Design number

20 series for DG3V valves. 40 series for DG5V valves.

Subject to change. Installation dimensions unaltered for design numbers *0 to *9 inclusive.

For Mounting Subplate and Fastener Kit Options

page A.13.

See "Supporting products" on page A.10.

For ISO 4400 (DIN 43650) Electrical Plugs to Suit DG5V---(V)M-U Valves See "Installation Dimensions" and "Electrical Plugs and Connectors" on

Operating Data

Maximum pressures: DG3V-7 valves; ports: P, A, B, T, X and Y	350 bar (5000 psi)
L DG5V-7-**(L)(-*)(-E)(-*) valves, (externally drained); ports: P, A, B, T and X Y L DG5V-7-**(L)(-*)(-E)-T(-*) valves, (internally drained)u; ports: P, A, B and X T	 0,5 bar (7 psi) 350 bar (5000 psi)▲ 100 bar (1500 psi)▲ 0,5 bar (7 psi) 350 bar (5000 psi)▲ 100 bar (1500 psi)▲ 100 bar (1500 psi)▲ The DG5V, 40 design two-stage valves have been designed to satisfy the needs of most applications. Consult your Vickers representative about an alternative model if: a) Valves are required to remain pressurized for long periods without frequent switching, and /or b) Back pressure on the drain port of externally drained models (or the tank port of internally drained models) is required to rise above 100 bar (1500 psi).
Maximum flow rates, L/min (USgpm) at the minimum pilot pressures (see "Pilot Pressures" on page A.11) ■, and with spool type:	At system pressure, bar (psi) of: 70 (1000) 140 (2000) 210 (3000) 280 (4060) 350 (5000)
 0, 2, 3, 6, 31, 33, 52 or 521◆ 1, 4, 9 or 11 8 Higher flow rates possible at higher pilot pressures; consult your local Vickers sales engineer. Consult your local Vickers sales engineer regarding flow limits relative to the regenerative position of type 52 and 521 spools. 	300 (80) 300 (80) 300 (80) 300 (80) 300 (80) 260 (69) 220 (58) 120 (32) 100 (26) 90 (24) 300 (80) 300 (80) 250 (66) 165 (44) 140 (37)
Pilot pressures	See "Pilot Pressures" on page A.11.
Control (swept) volume(s), DG3V and main-stage of DG5V valves: Center-to-end End-to-end	4,07 cm ³ (0.25 in ³) 8,14 cm ³ (0.50 in ³)
Voltage ratings, DG5V valves	See 12 in "Model Code" on page A.7.
Voltage limits, DG5V valves: Maximum voltage Minimum voltage	See "Temperature limits", on page A.9. 90% of rated voltage
Power consumption, DG5V valves with AC solenoids: Single-frequency coils, 50 Hz types "A" and "C" Dual-frequency coils at 50 Hz, types "B" and "D" Dual-frequency coils at 60 Hz, types "B" and "D"	Initial VA rmsHolding VA rms225392654926048
Power consumption, DG5V valves with DC solenoids	30W at rated voltage and 20°C (68°F)
Relative duty factor, DG5V valves	Continuous; ED = 100%
Type of protection, DG5V valves: ISO 4400 coils with plug fitted correctly Junction box Coil winding Lead wires (coil types "F****") Coil encapsulation	IEC 144 class IP65 IEC 144 class IP65 (NEMA 4) Class H Class H Class F

Performance data typical under standard test conditions which use antiwear hydraulic oil (Class L-HM) at 21 cSt (102 SUS) and 50°C (122°F).

Continued on next page

Pressure drop characteris	tics	See page A.11.				
Response times, DG5V va Typical values for a DG5 piloted valve under stand 150 L/min (40 USgpm) a	alves: W-7-2C-E spring centered, externally dard test conditions and operating with t 350 bar (5000 psi).	See "Response Times" se	ection on page A.12.			
Coil rating:	Pilot pressure,		Time, ms♦			
110V 50 Hz	bar (psi): 15 (218) 50 (720)	Energizing: 120	De-energizing: 55 55			
24V DC	50 (730) 150 (2180) 210 (3000) 250 (3600) 15 (218) 50 (730) 150 (2180) 240 (2000)	45 25 20 18 130 55 35	55 55 55 $65 \blacktriangle$ $65 \blacktriangle$			
	250 (3600)	28	65▲			
		 From applying a signal at the completes its travel. In pure switched circuit corsuppression diodes and full 	he solenoid until the main-stage spool nditions, devoid of the effects of any Il-wave rectifiers.			
Temperature limits:		Coo. on none () (1)				
Ambient temperature limits	ite.	See on page A.12.				
Minimum ambient, all va	lves	–20°C (–4°F)				
Maximum ambients, DG "Model Code" two pages stated below: Dual-frequency coils:	5V valves with coils listed in 12 in back, and under conditions					
at 50 Hz and 107% of rat	ted voltage	65°C (150°F)				
at 60 Hz and 107% of rat	ted voltage	65°C (150°F) 65°C (150°F)				
	ied voltage	65°C (150°F)				
Single-frequency (50 Hz) rated voltage) coils at 50 Hz and 110% of	65°C (150°F)				
DC coils at 110% of rate	d voltage	70°C (158°F)				
Installation dimensions:						
Valves Mounting surface		See page A.13. See catalog 2425				
Mass (weight), basic mode DG3V-7-*A(L) DG3V-7-*/*B(L)/*C DG3V-7-*D DG5V-7-*A/B (AC voltag DG5V-7-*A/B (DC voltag DG5V-7-*C/N (AC voltages DG5V-7-*C/N (DC voltages DG5V-7-*D (DC voltages	els: es) jes) jes) jes) s)	kg (lb)approx. 10,0 (22.0) \blacklozenge 7,3 (16.1) \blacklozenge 8,4 (18.5) \blacklozenge 8,4 (18.5) \blacklozenge 8,5 (18.7) \blacklozenge 8,7 (19.2) \blacklozenge 9,1 (20.0) \blacklozenge 9,8 (21.6) \blacklozenge 10,2 (22.5) \blacklozenge \blacklozenge Add 1.1 kg (2.4 lb) when p	ilot choke adiustment is fitted.			

Continued on next page

Supporting products:	See catalog 2425
Subplate	See catalog 2314 for available metric bolt kit options,
Fastener kits	i.e. BKDG7-858918 and BKDG7-858919.
Installation and start-up (commissioning):	Optional for models shown.
Mounting attitudes, DG3V series	Optional for DG5V-7-*B(L)/C/D models, but horizontal
Mounting attitudes, DG5V series	mounting is recommended for DG5V-7-*A(L)/N models.
After-sales service: Spare-parts data for DG3 valves and main stages of DG5 valves, and pilot choke modules Spare-parts data for DG4V-3S pilot stages of DG5 models	Consult your local Vickers representative. Ask for spares leaflet I-3886-S (minimal text, in English).

Pilot Pressures

Maximum: 350 bar (5000 psi). Typical minimum differential pilot pressure characteristics, shown below, are based on looped flow through P to A to B to T under standard test conditions.



Pressure	Drop	Charac	teristics

The following typical pressure drops (Δp) at flow rates (Q) are based on standard test conditions, using oil of 0,865 specific gravity. Except where otherwise stated, for any other flow rate (Q_1) the pressure drop (Δp_1) will be approximately $\Delta p_1 = \Delta p (Q_1 / Q)^2$.



Spool	Flow-direction curve ref.								
type	P→A	B→T	P→B	A→T	P→T				
0	2	1	2	3	3				
1	1	2	2	3	4▼				
2	1	2	1	2	-				
3	1	2	1	3	-				
4	2	2	2	1	6				
6	1	1	1	3	-				
8	2	2	2	1	5				
9	1	2	1	3	7				
11	2	3	1	2	4				
31	1	3	1	2	-				
33	1	2	1	2	-				
52	2●	-	3▼	-	-				
52♦	-	-	3	3	_				

Ports A and B plugged. \checkmark Port A plugged. Selected P to A. \bullet Port B plugged. \diamond Selected P to B.

Spool types	0	1	2	3	4	6	8	9	11	31	33	52	Х*	Y*
Curve ref.	1	1	3	3	1	2	1	1	1	3	3	3	3	3
Applica	ble	to:				1	1							
Model			S	poo	l typ	be				Curv	e co	rrect	ion	
DG3V-7 DG3V-7 DG5V-7 DG5V-7 DG5V-7 DG5V-7	-*C -*D -*A(-*B(-*C -*D	L) L)	А А О О А А	. , 2, 6 , 2, 6 , 2, 6 .	6, 9, 6, 52	52,) 2▲, >	X2 a (2 ar	nd Y nd Y2	′2 2	As dr Add Subtr As dr As dr Add	awn 5 bar act 3 awn awn 5 bar	(73 p bar (73 p	osi) (44 p osi)	si)
DG5V-7	-*N		0	, 2, 6	5, 9,	52, 2	X2 a	nd Y	2	As dı	awn			

Minimum-Pilot-Pressure Generator

For valves fitted with this option, the P to A or B pressure drop derived from the graph on the previous page is increased by 3,5 bar (51 psi) at 50 L/min (13 USgpm).

At any other flow rate Q₁ the total pressure drop becomes:

a. For pressures in bar and flow rates in L/min:

$$\Delta p_1 = 3,5 \left(\frac{Q_1}{50}\right)^2$$

b. For pressures in psi and flow rates in USgpm:

$$\Delta p_1 = 51 \left(\frac{Q_1}{13.2} \right)^2$$

Hydraulic Fluids

Materials and seals used in these valves are compatible with antiwear hydraulic oils, water-glycols, water-in-oil emulsions and non-alkyl-based phosphate esters. The extreme operating range is 500 to 13 cSt (2270 to 70 SUS) but the recommended running range is 54 to 13 cSt (245 to 70 SUS). For further technical information about fluids see "Technical Information" leaflet B-920 or I-286S.

Contamination Control Requirements

Recommendations on contamination control methods and the selection of products to control fluid condition are included in Vickers publication 9132 or 561, "Vickers Guide to Systemic Contamination Control". The book also includes information on the Vickers concept of "ProActive Maintenance". The following recommendations are based on ISO cleanliness levels at 2 μ m, 5 μ m and 15 μ m. For products in this catalog the recommended levels are:

Up to 210 bar (3000 psi) 20/**18/15** Above 210 bar (3000 psi) 19/**17/14**

Fluid Temperatures

For petroleum oil:

Min –20°C (–4°F)
Max.* +70°C (+158°F)
* To obtain optimum service life from both

fluid and hydraulic system, 65° C (150° F) normally is the maximum temperature.

For other fluids where limits are outside those of petroleum oil, consult fluid manufacturer or Vickers representative. Whatever the actual temperature range, ensure that viscosities stay within those specified under "Hydraulic Fluids".

Installation Dimensions in mm (inches)





DG5V-7-***(L)(-2)(-E)(-T)(-K)(-*)-(V)M-U example For solenoid identification see page A.15.



Solenoid Controlled Models with Junction Box having Optional Terminal Strip and Indicator Lights

Available also with other options shown above and on previous page. M20-6H x 1,5 thread for F(T)J options, or 1/2" NPT for F(T)W options, at both ends. Closure plug fitted at one end. For other options see 10& 11 in "Model Code", eight pages back, and under "NFPA Connector--- " and "Terminal Strip and Lights" sections, two pages on.



Г

With pilot choke fitted: 227,0 (8.94) Without pilot choke: 187,0 (7.36)

Ref. "Model Code" 10: Codes "FJ" and "FW": 2 lead wires for each solenoid, approx. 150 (6.0) long. M3 (#6) terminals provided for customer connection. Codes "FTJ" and "FTW": Valve supplied with lead wires connected into terminal strip suitable for M3 (#6) terminals provided for customer connection.

Pilot Operated Models with Optional Pilot Choke and/or Stroke Adjusters



Solenoid Identification

Model (see also 10 in "Model Code" on page A.6)	Spool types	Solenoid iden Main port "A" end	tity at: Main port "B" end	
DG5V-7-*A/B(-**)(-E)(-T)(-K)(-*)-M	All except "4" & "8"	-	В	
DG5V-7-*A/B(-**)(-E)(-T)(-K)(-*)-VM	All except "4" & "8" "4" & "8" only	– B	A _	
DG5V-7-*AL/BL(-**)(-E)(-T)(-K)(-*)-M	All except "4" & "8"	A	-	
DG5V-7-*AL/BL(-**)(-E)(-T)(-K)(-*)-VM	All except "4" & "8" "4" & "8" only	B -	– A	
DG5V-7-*C/D/N(-**)(-E)(-T)(-K)(-*)-M	All except "4" & "8"	A	В	
DG5V-7-*C/D/N(-**)(-E)(-T)(-K)(-*)-VM	All spools	В	A	

Dimensions

Basic model designation	AC models DC models							
-	Α	В	С	Α	В	С	D	Е
DG3V-7-*C	_	-	-	-	-	_	97,0 (3.82)	97,0 (3.82)
DG3V-7-*A	_	_	_	_	_	_	97,0 (3.82)	131,0 (5.16)
DG3V-7-*A(L) ■ DG3V-7-*D	-	_	_	-	-	_	131,0 (5.16)	97,0 (3.82)
DG5V-7-*A ■ DG5V-7-*B ■ DG5V-7-4/8BL	_	147 (5.8)	-	-	157 (6.2)	_	97,0 (3.82)	97,0 (3.82)
DG5V-7-*AL ■ DG5V-7-*BL ■ DG5V-7-4/8B	_	-	147 (5.8)	-	-	157 (6.2)	97,0 (3.82)	97,0 (3.82)
DG5V-7-*C DG5V-7-*N	200 (7.8)	_	-	220 (8.7)	-	_	97,0 (3.82)	97,0 (3.82)
DG5V-7-*D	200 (7.8)	_	_	220 (8.7)	_	_	131,0 (5.16)	97,0 (3.82)
■ Not types "4" or "8" spools.								

Water-Resistant Manual Override on Solenoids $\mathsf{DG5V}\text{-}7\text{---}\mathsf{M}\text{-}^{****}(\mathsf{L})\textbf{H}$ values

Application:

General use where finger operation is required (standard manual overrides can only be operated by using a small tool).



Note: "H" feature is not field convertible from other models; specify with order.

Electrical Plugs and Connectors

Plugs for ISO 4400 (DIN 43650) Type Coil Connection

For valves with type "U" coils

The cable entry on these plugs can be repositioned at 90° intervals by reassembly of the contact holder relative to the plug housing.

The cable entry is Pg.11, for cable \emptyset 6-10 mm (0.24 to 0.39" dia).

Order separately by part number.

NFPA Connector T3.5.29-1980

DG5V-7-***---FPA3W(L) and DG5V-7-***---FPA5W(L) models

The receptacle is a standard three or five-pole connector with shortened leads and terminals added. The five-pole plug has four leads 101,6 mm (4.0") long and one of 177,8 mm (7.0") length. All wires have US Underwriters Laboratory-recognized non-solder insulated eyelet terminals. The green wire is used for the ground (earth) connection (No. 8-size screw furnished). Valves are supplied prewired.

Plugs without indicator lights Part no. Color Use on solenoid coil 710775 Black Sol. B 710776 Gray Sol. A Plugs with indicator lights Part no. Voltage Black Gray (sol. B) (sol. A) 12-24V 977467 977466 100-125V 977469 977468

200-240V 977471

2-lead / (to solenoid)

Connection details and model type/model code references

977470



4-lead (capped)

3-green lead

(ground)

2-lead

(capped)

Terminal Strip and Light Options

When fitted in solenoid controlled valves DG5V-7-**(L)---F****(L).



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