

Solenoid Cartridge Valves

On-off pilot operated

Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8I-06-NC	Size 08	OD15X18YS0	RE 18323-01	669
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-06-NC	Size 08	OD15XYZS	RE 18323-02	673
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-06-NC 019-E	Special	OD15X19Z	RE 18323-20	677
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-06-NC-ET	Size 08	OD15X183CZ	RE 18323-09	681
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-10-NC	Size 10	OD15X36YZ	RE 18323-11	685
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-09-NC	Special	OD15X17YZ	RE 18323-03	689
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-12A-NC	Size 12	OD15X89YZ	RE 18323-13	693
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-12-NC	Special	OD15X21YZ	RE 18323-04	697
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-16A-NC	Size 16	OD15X75YS0	RE 18323-17	701
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-2B-16-NC-NSS	Special	OD150304YS0	RE 18323-15	705

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Solenoid Cartridge Valves

On-off pilot operated

Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8I-06-NA	Size 08	OD15X18YS0	RE 18323-05	709
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-06-NA	Size 08	OD15XYZS0	RE 18323-06	713
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-06-NA	Special	OD15X19Z	RE 18323-21	717
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-10-NA	Size 10	OD15X36YS0	RE 18323-12	721
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-09-NA	Special	OD15X17YS0	RE 18323-07	725
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-12A-NA	Size 12	OD15X89YS0	RE 18323-14	729
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-12-NA	Special	OD15X21YS0	RE 18323-08	733
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-16A-NA	Size 16	OD15X75YS0	RE 18323-18	737
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-2B-16-NA-NSS	Special	OD150404YS0	RE 18323-16	741
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-06-NA-S-M-NSS	Size 08	OD1506181DS2Z	RE 18325-07	745

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Solenoid Cartridge Valves

On-off pilot operated

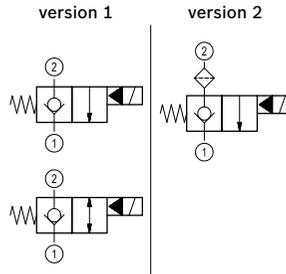
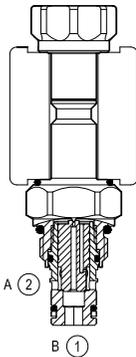
Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-09-NA-S-M-NSS	Size 10	OD1506761DS2Z	RE 18325-08	749
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-09-NA-S-M-NSS	Special	OD1506171DS0Z	RE 18325-09	753
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-12-NA-S-M-NSS	Special	OD1506211DS2Z	RE 18325-10	757
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2T-06-NA-S-M-NSS	Size 08	OD1532181DS2Z	RE 18325-16	761
Solenoid operated valves, pilot operated poppet 2 way normally open double lock proximity sensor	VEI-8A-2T-09-NA-S-M-NSS	Special	OD1532171DS2Z	RE 18325-15	765
Solenoid operated valves, pilot operated poppet 2 way normally closed proximity sensor	VESP-08A-12A/00-2A05-N7	Size 08	OD15051841YZ	RE 18325-03	769
Solenoid operated valves, pilot operated poppet 2 way normally closed proximity sensor - extra spring	VESP-12G-16A/00-2A05-N7	Special	OD1505176504Z	RE 18325-04	773
Solenoid operated valves, pilot operated poppet 2 way normally closed proximity sensor	VESP-16G-16A/00-2A-N7	Special	OD15052165YZ	RE 18325-05	777

Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 08

VEI-8I-06-NC

OD.15 - X - 18 - Y - S0



General

Weight	kg (lbs)	0.11 (0.24)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-30 (0.1-8)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-75

Seal kit version 1-2 code material no. RG08A201052100 R901101437

Seal kit coil code material no. RG1211PNBR7010 R934003957

Other technical data See data sheet RE 18350-50

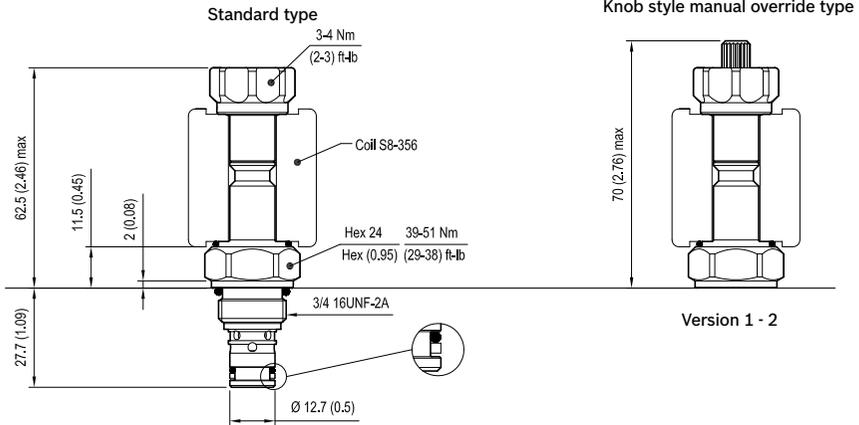
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

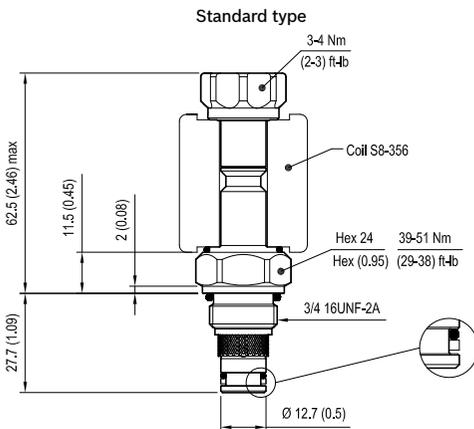
Note: Coils must be ordered separately.

Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



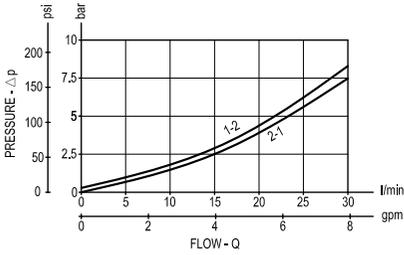
Version 2 : Solenoid operated valve, poppet 2-way normally closed - filter



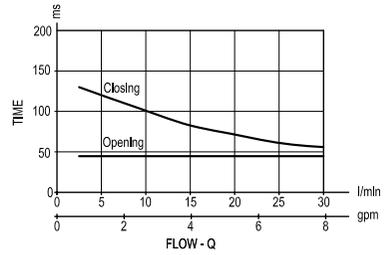
[mm (Inches)]

Performance graphs

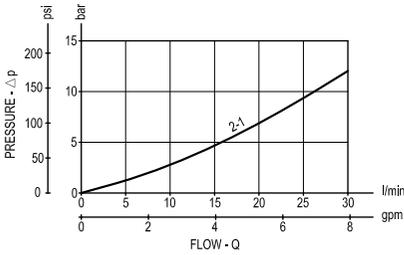
Version 1



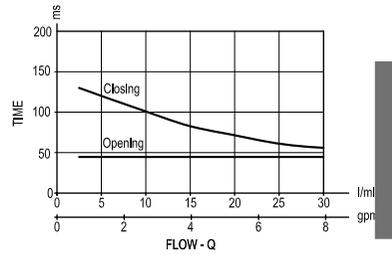
Standard



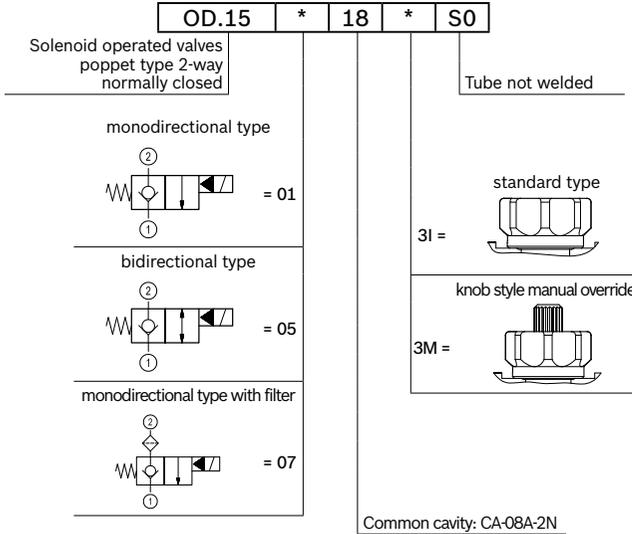
Version 2



Standard



Ordering code



Type	Material number
OD1501183IS000	R901090962
OD1501183MS000	R901090966
OD1505183IS000	R901090953
OD1505183MS000	R901090950
OD1507183IS000	R901091142
OD1507183MS000	R934003486

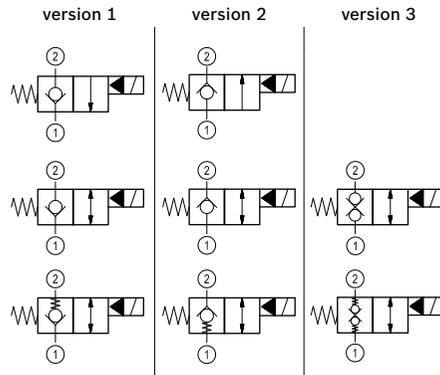
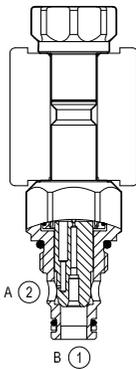
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 08

VEI-8A-06-NC

OD.15 - X - Y - Z - S



General

Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-40 (0.1-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit version 1 code RG08A2010520100 material no. R901101437

Seal kit version 2-3 code RG08A2010530100 material no. R901101544

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

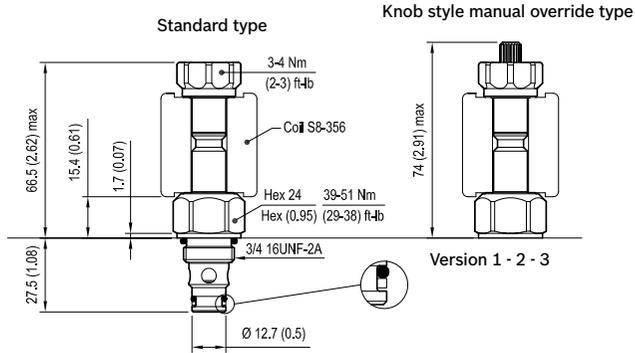
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

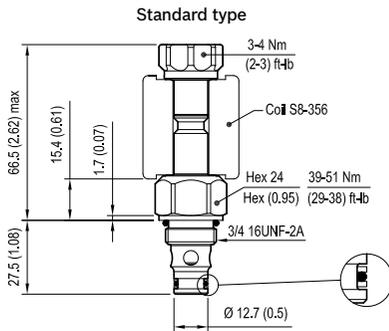
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



Version 2: Solenoid operated valve, poppet 2-way normally closed

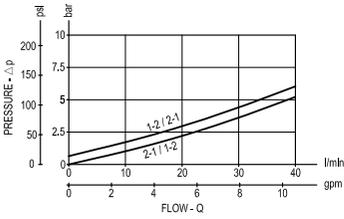
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



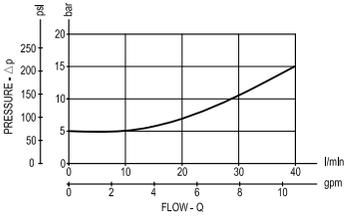
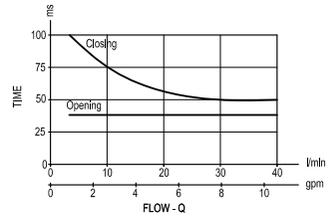
mm (Inches)

Performance graphs

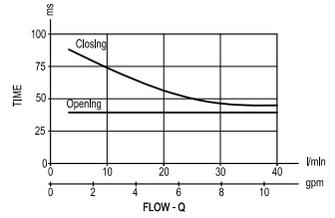
Version 1 - Version 2



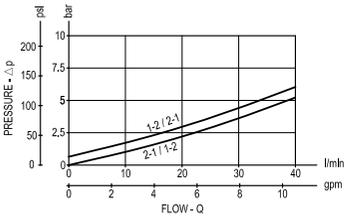
Standard



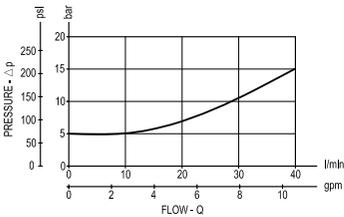
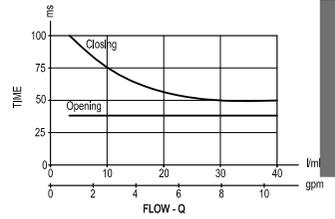
Extra spring



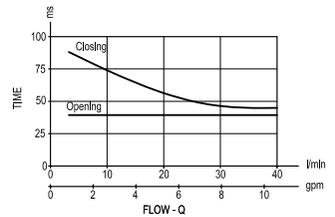
Version 3



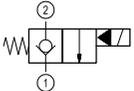
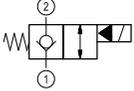
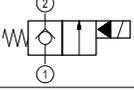
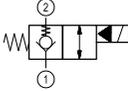
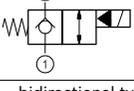
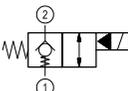
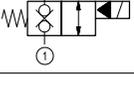
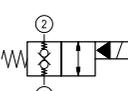
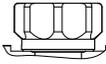
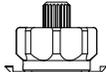
Standard



Extra spring



Ordering code

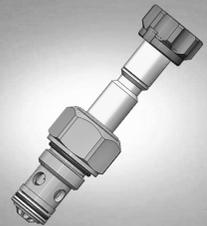
OD.15		X	Y	Z	*
Solenoid operated valves poppet type 2-way normally closed					
monodirectional type					
	= 01				S0 = Tube not welded
bidirectional type					
	= 05				S8 = Tube not welded with extra spring
monodirectional type					
	= 09				 for X= 05
bidirectional type					
	= 03				 for X= 03
bidirectional type					
	= 31				 for X= 31
standard type					
3A =					
knob style manual override					
3D =					
18 = Common cavity: CA-08A-2N					

Type	Material number
OD1501183AS000	R901091096
OD1501183DS000	R901091101
OD1503183AS000	R934000779
OD1503183AS800	R934003063
OD1503183DS000	R901091112
OD1503183DS800	R934003064
OD1505183AS000	R901083058
OD1505183AS800	R934003080
OD1505183DS000	R901087979

Type	Material number
OD1509183AS000	R901091150
OD1509183DS000	R901091151
OD1531183AS000	R901082015
OD1531183AS800	R934000104
OD1531183DS000	R901091164

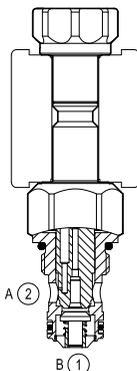
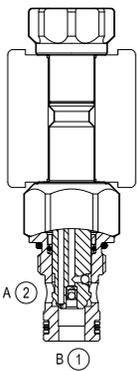
Solenoid operated valves pilot operated poppet type 2-way normally closed

Special cavity, 019-E

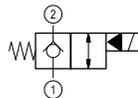


VEI-8A-06-NC

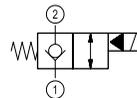
OD.15 - X - 19 - Z



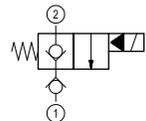
version 03



version 05



version 11



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-40 (0.1-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Special cavity 019-E see RE 18325-75

Seal kit version 03-11 code material no. RG19E201053010 R934003561

Seal kit version 05 code material no. RG19E201052010 R934003560

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

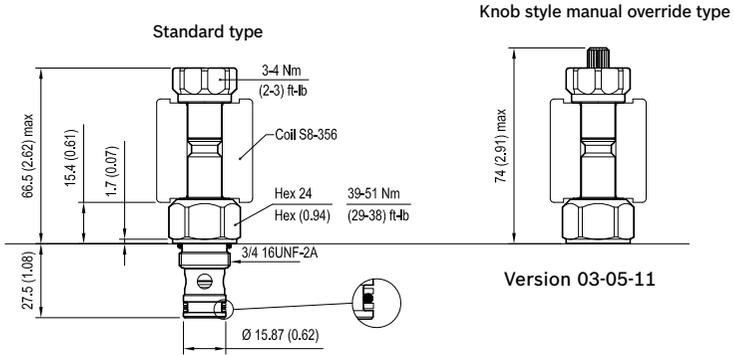
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

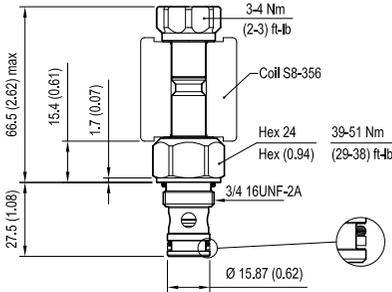
Note: Coils must be ordered separately.

Dimensions

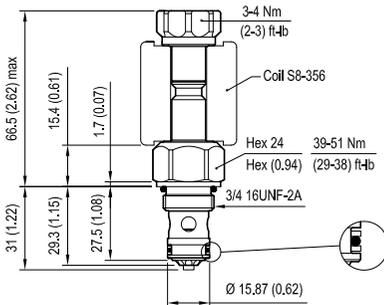
Version 03: Solenoid operated valve, poppet 2-way normally closed



Version 05: Solenoid operated valve, poppet 2-way normally closed



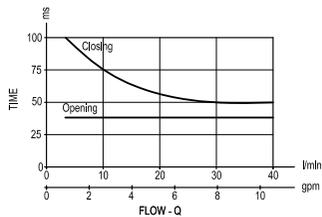
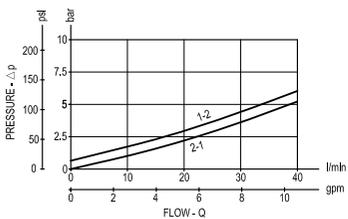
Version 11: Solenoid operated valve, poppet 2-way normally closed



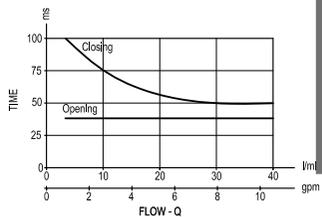
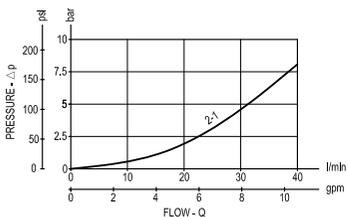
mm (Inches)

Performance graphs

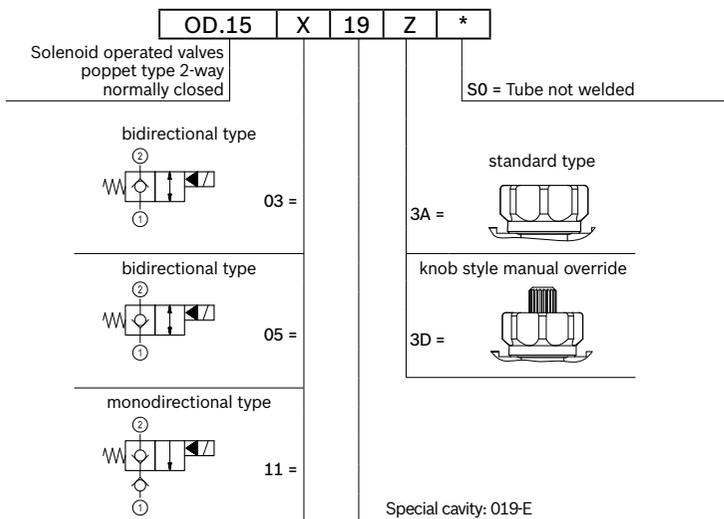
Version 03-05



Version 11



Ordering code



Type	Material number
OD1503193AS00	R934000785
OD1503193DS00	R934000786
OD1505193AS00	R934000895
OD1505193DS00	R934000898
OD1511193AS000	R901091157
OD1511193DS000	R901091158

Type	Material number

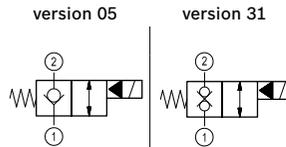
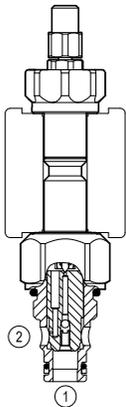
Solenoid operated valves pilot operated poppet 2-way normally closed

Common cavity, Size 08



VEI-8A-06-NC-ET

OD.15 - X - 18.3C - Z



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Rated flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)

Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
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Cavity		CA-08A-2N see RE 18325-70
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Seal kit - version 05	code	RG08A2010520100
	material no.	R901101437

Seal kit - version 31	code	RG08A2010530100
	material no.	R901101544

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data		See data sheet RE 18350-50
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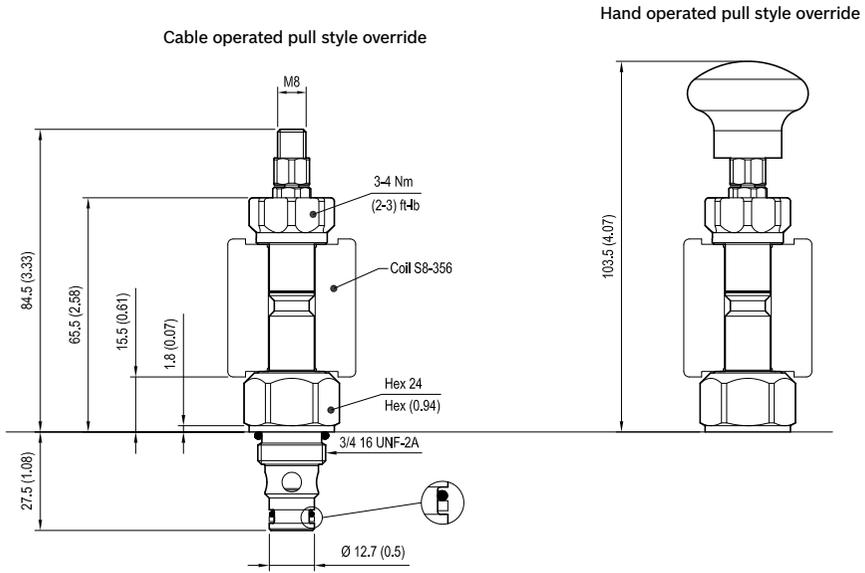
Electrical

Type of voltage		DC voltage
Coil type		S8-356 see RE 18325-90
Supply voltage		See data sheet RE 18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90

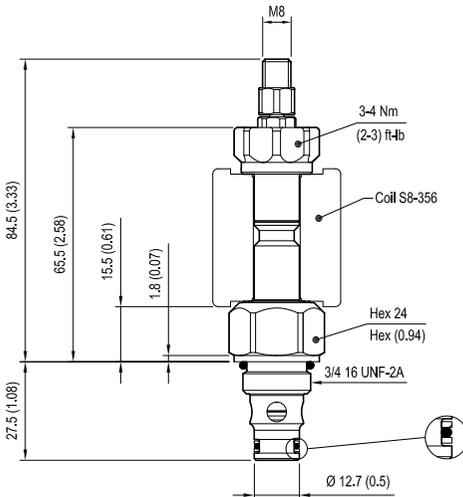
Note: Coils must be ordered separately.

Dimensions

Version 05: Solenoid operated valves poppet 2-way normally closed



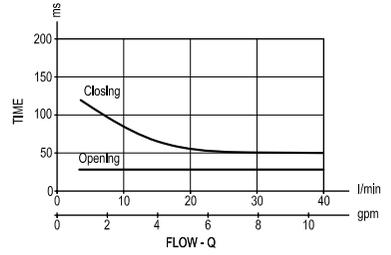
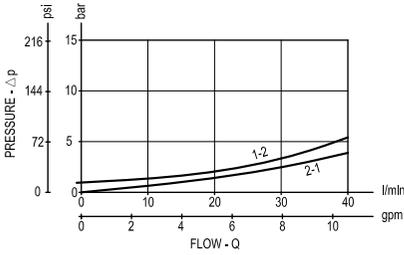
Version 31: Solenoid operated valves poppet 2-way double lock normally closed



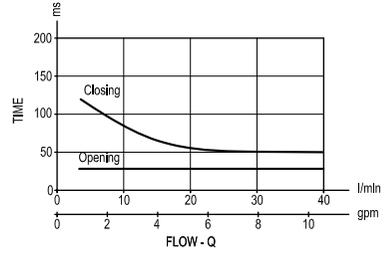
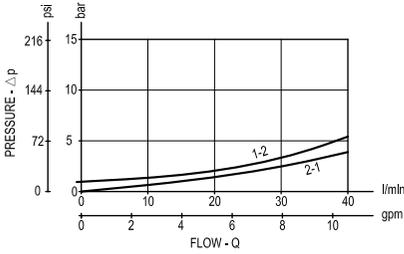
mm (Inches)

Performance graph

Version 05



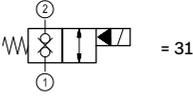
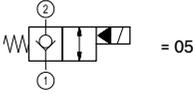
Version 31



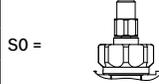
Ordering code

OD.15	*	18	3C	*
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Solenoid operated valves
poppet 2-way normally
closed



Cable operated pull style override



Hand operated pull style override



Common cavity: CA-08A-2N

Type	Material number
OD1505183CS000	R901094735
OD1505183CS100	R901094737
OD1531183CS000	R901109982
OD1531183CS100	R901109983

Type	Material number

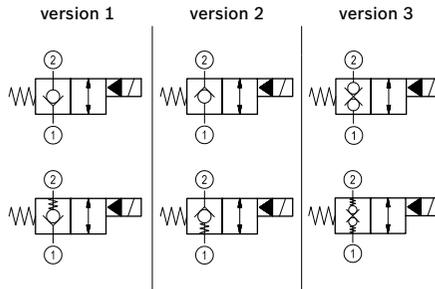
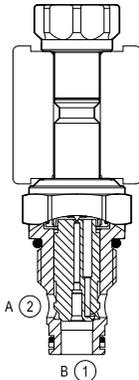
Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 10



VEI-8A-10-NC

OD.15 - X - 36 - Y - Z



General

Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 44-56 (33-42)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-10A-2N see RE 18325-75

Seal kit version 1 code RG10A2010520100 material no. R901111363

Seal kit version 2-3 code RG10A2010530100 material no. R901111366

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

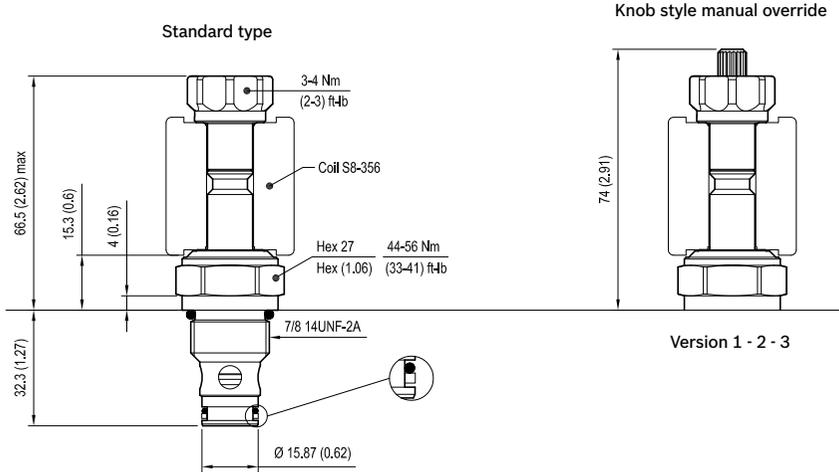
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see Re 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

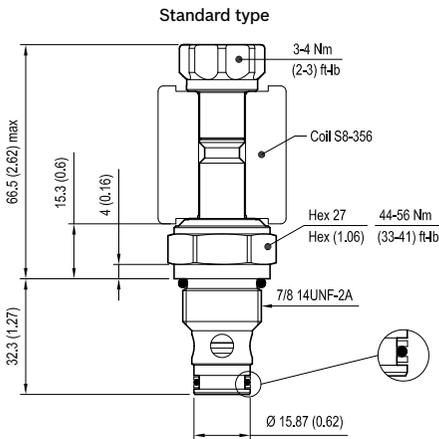
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



Version 2: Solenoid operated valve, poppet 2-way normally closed

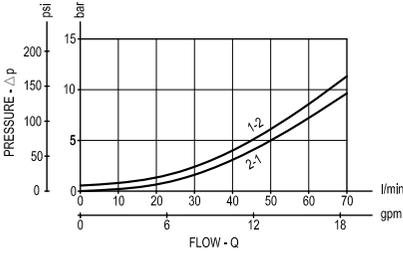
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



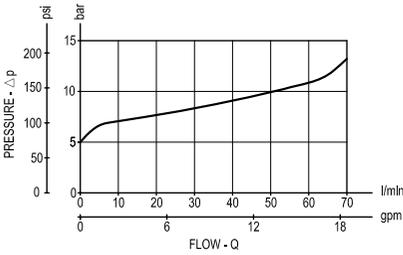
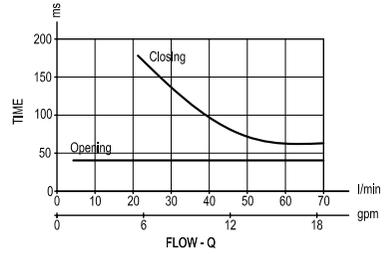
mm (Inches)

Performance graphs

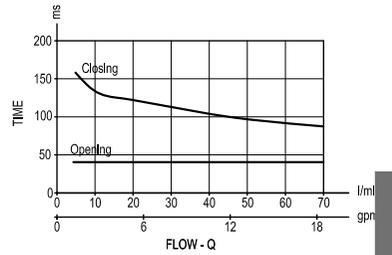
Version 1 - Version 2



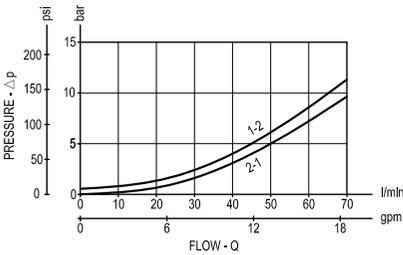
Standard



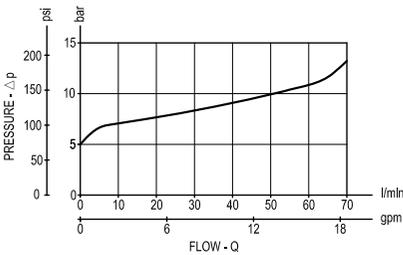
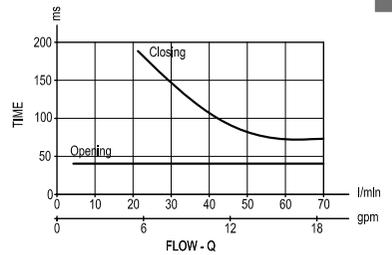
Extra spring



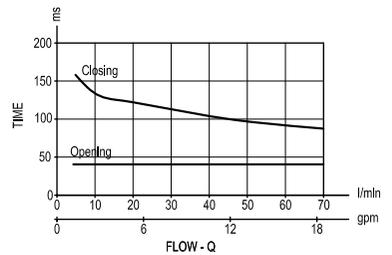
Version 3



Standard



Extra spring

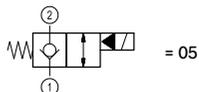


Ordering code

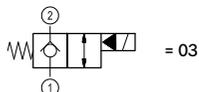
OD.15	X	36	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

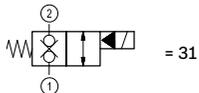
bidirectional type



bidirectional type

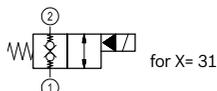
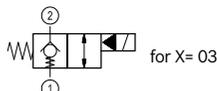
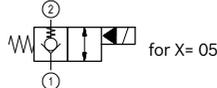


double lock



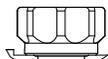
S0 = Tube not welded

S8 = Tube not welded with extra spring



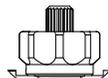
standard type

3A =



knob style manual override

3D =



Common cavity: CA-10A-2N

Type	Material number
OD1503363AS000	R901091113
OD1503363AS800	R901091114
OD1503363DS800	R901109956
OD1505363AS000	R901090947
OD1505363AS800	R901090945
OD1505363DS000	R901080482
OD1505363DS800	R901109969
OD1531363AS000	R901091166
OD1531363AS800	R901109984

Type	Material number
OD1531363DS000	R901091167
OD1531363DS800	R901109985

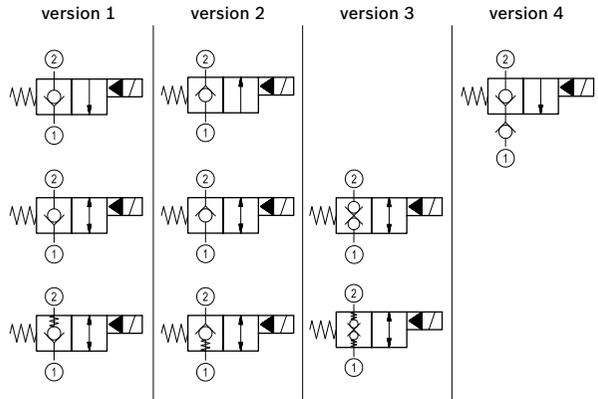
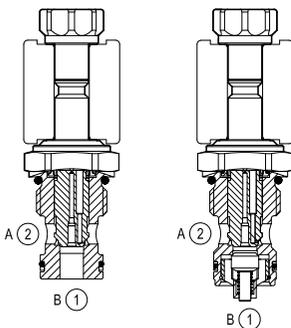
Solenoid operated valves pilot operated poppet type 2-way normally closed

Special cavity, 017-E



VEI-8A-09-NC

OD15 - X - 17 - Y - Z



General

Weight	kg (lbs)	0.24 (0.53)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 54-66 (40-49)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 017-E see RE 18325-75

Seal kit - version 1 code RG17E201052010 material no. R934003562

Seal kit - version 2-3-4 code RG17E201053010 material no. R934003563

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

Electrical

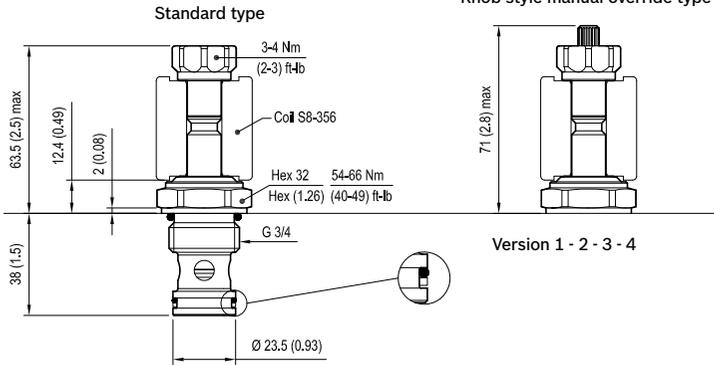
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

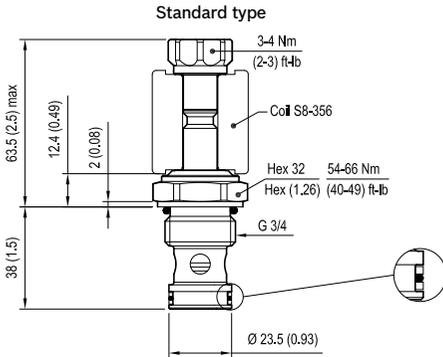
Version 1: Solenoid operated valve, poppet 2-way normally closed

Knob style manual override type

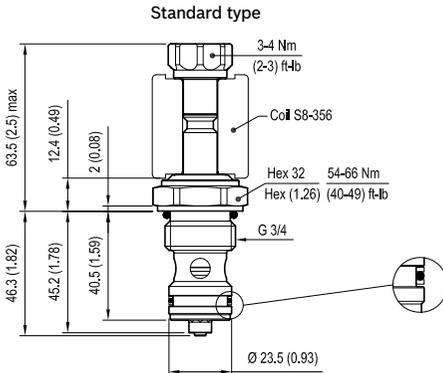


Version 2: Solenoid operated valve, poppet 2-way normally closed

Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



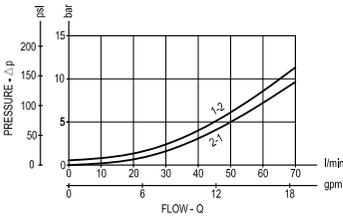
Version 4: Solenoid operated valve, poppet 2-way normally closed



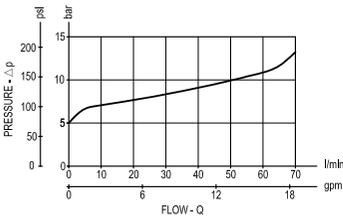
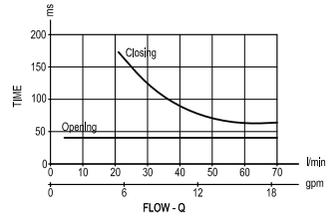
mm (Inches)

Performance graphs

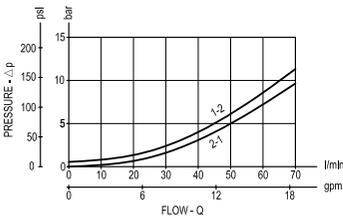
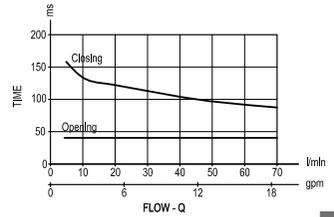
Version 1 - Version 2



Standard

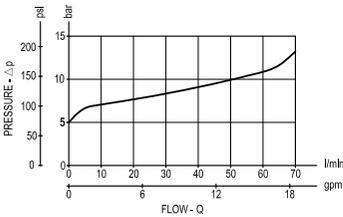
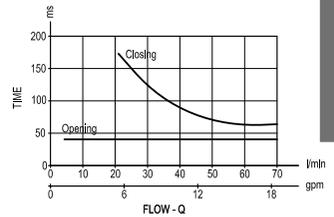


Extra spring

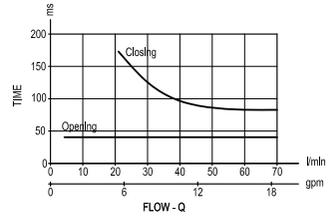


Version 3

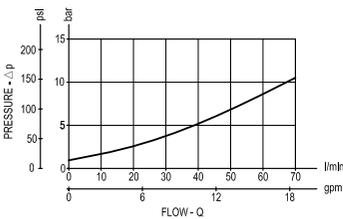
Standard



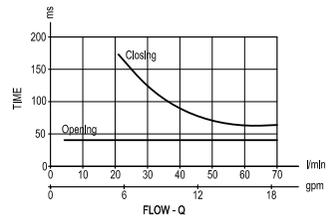
extra spring



Version 4



Standard



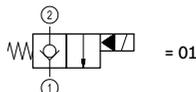
4

Ordering code

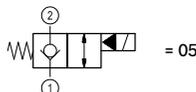
OD.15	*	17	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

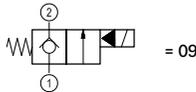
monodirectional type



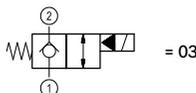
bidirectional type



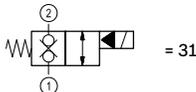
monodirectional type



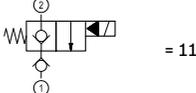
bidirectional type



bidirectional type

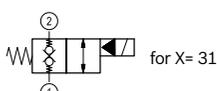
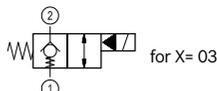
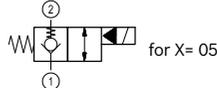


monodirectional type



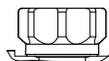
S0 = Tube not welded

S8 = Tube not welded with extra spring



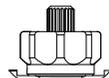
standard type

3A =



knob style manual override

3D =



Special cavity: 017-E

Type	Material number
OD1501173AS000	R901176045
OD1501173DS000	R934000679
OD1503173AS000	R901113664
OD1503173AS800	R934000773
OD1503173DS000	R901180257
OD1503173DS800	R934003061
OD1505173AS000	R901113673
OD1505173AS800	R901119220
OD1505173DS000	R901125249

Type	Material number
OD1505173DS800	R934000846
OD1509173AS000	R934001038
OD1509173DS000	R934001039
OD1511173AS000	R934001072
OD1511173DS000	R934001075
OD1531173AS000	R901113682
OD1531173AS800	R934001116
OD1531173DS000	R934001120
OD1531173DS800	R934003111

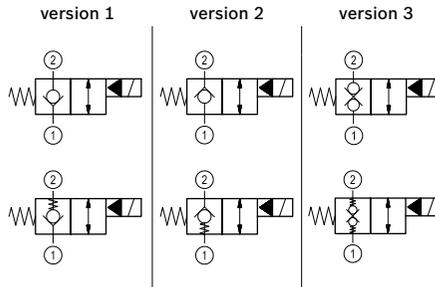
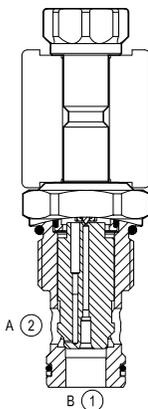
Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 12



VEI-8A-12A-NC

OD.15 X - 89 - Y - Z



4

General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min. (gpm)	5-150 (1-40)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	54-66 (40-49)

Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-12A-2N see RE 18325-75

Seal kit - version 1	code	RG12A2010520100
	material no.	R901111377

Seal kit - version 2-3	code	RG12A2010530100
	material no.	R930003374

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data		See data sheet RE 18350-50
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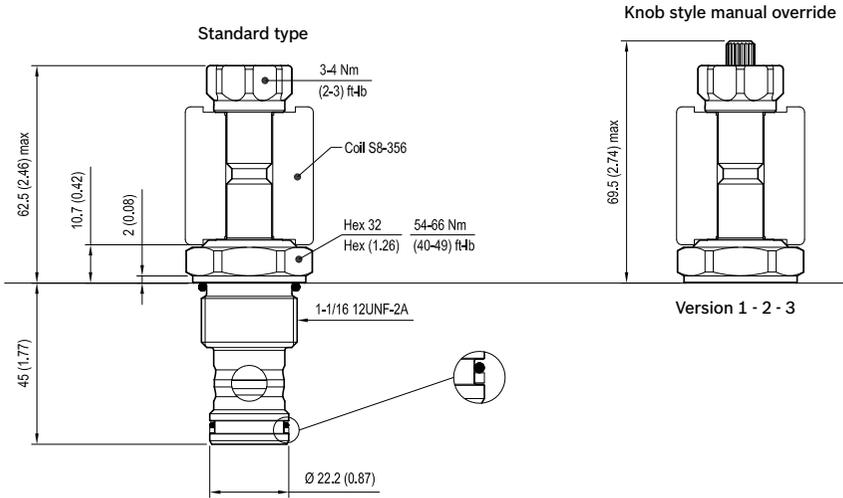
Electrical

Type of voltage		DC voltage
Coil type		S8-356 see RE 18325-90
Supply voltage		See data sheet RE 18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90

Note: Coils must be ordered separately.

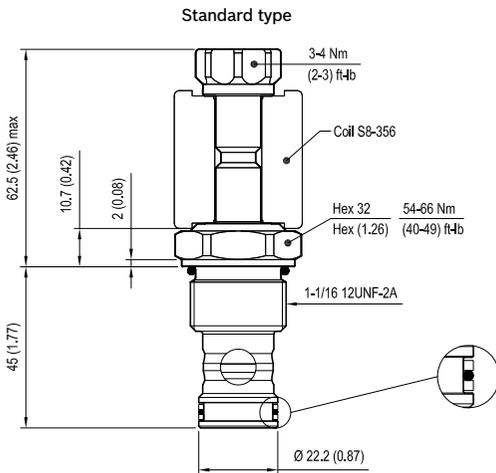
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



Version 2: Solenoid operated valve, poppet 2-way normally closed

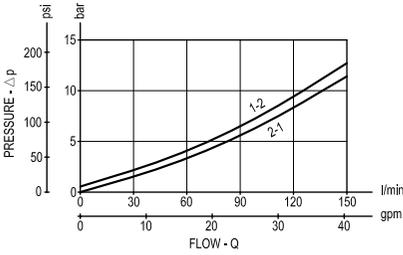
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



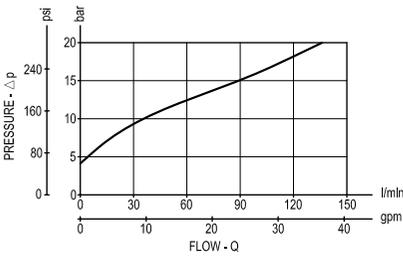
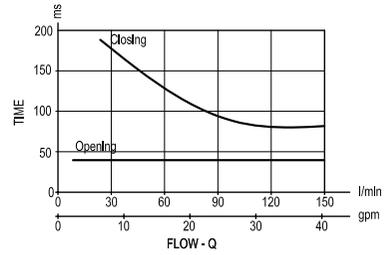
[mm (Inches)]

Performance graphs

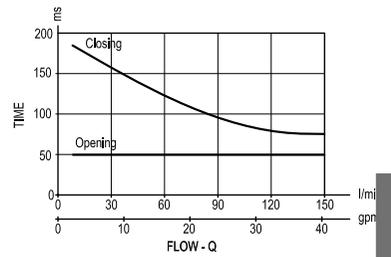
Version 1 - Version 2



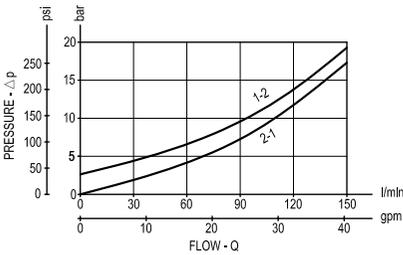
Standard



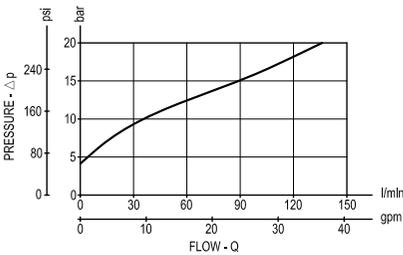
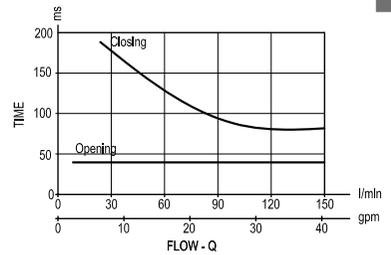
Extra spring



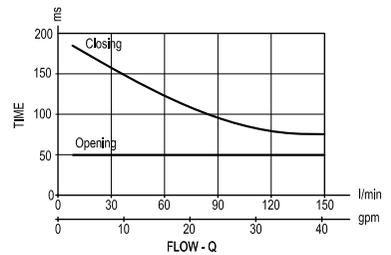
Version 3



Standard



Extra spring

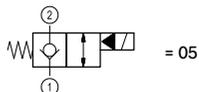


Ordering code

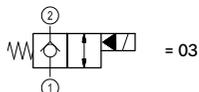
OD.15	*	89	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

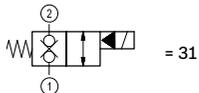
bidirectional type



bidirectional type

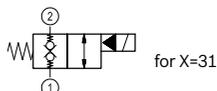
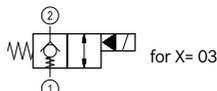
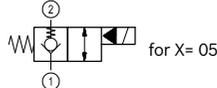


double lock



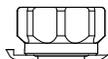
S0 = Tube not welded

S8 = Tube not welded with extra spring



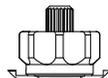
standard type

3A =



knob style manual override

3D =



Common cavity: CA-12A-2N

Type	Material number
OD1503893AS000	R901091116
OD1503893AS800	R901109961
OD1503893DS000	R901091117
OD1503893DS800	R901109962
OD1505893AS000	R901091127
OD1505893AS800	R901091128
OD1505893DS000	R901091129
OD1505893DS800	R901109978
OD1531893AS000	R901091168

Type	Material number
OD1531893AS800	R901091169
OD1531893DS000	R901091170
OD1531893DS800	R901109990

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www.boschrexroth.com

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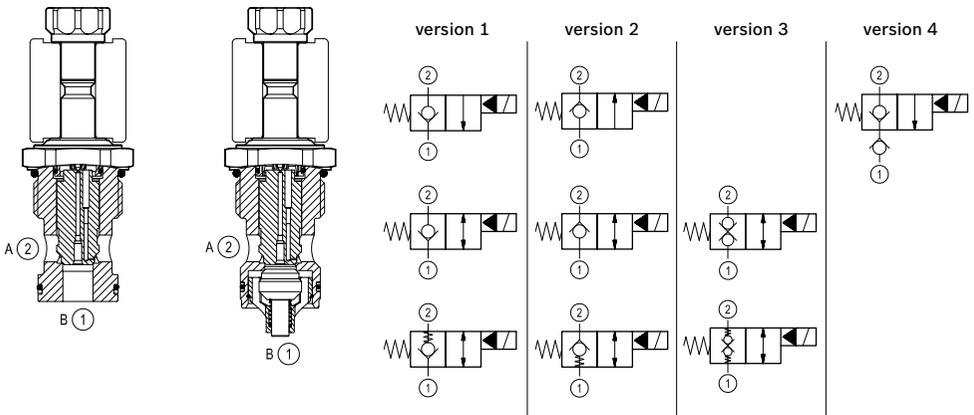
Solenoid operated valves pilot operated poppet type 2-way normally closed

Special cavity, 021-E



VEI-8A-12-NC

OD.15 - X - 21 - Y - Z



General

Weight	kg (lbs)	0.34 (0.75)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids

Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 80-100 (59-74)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 021-E see RE 18325-75

Seal kit - version 1 code RG21E201052010 material no. R934003566

Seal kit - version 2-3 code RG21E201053010 material no. R934003567

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

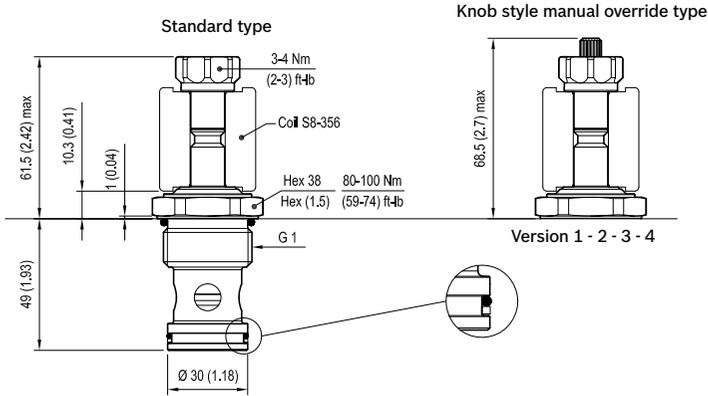
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

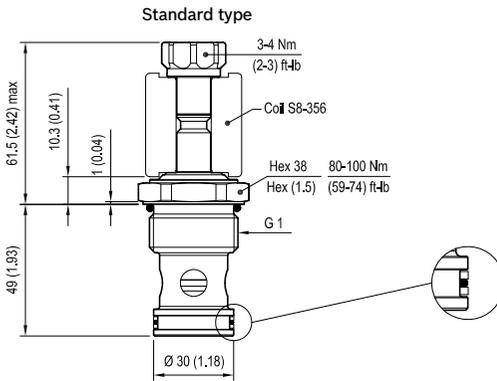
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed

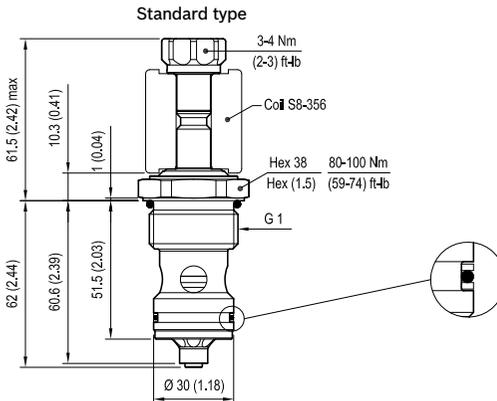


Version 2: Solenoid operated valve, poppet 2-way normally closed

Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



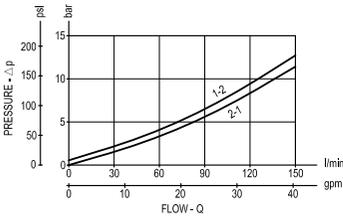
Version 4: Solenoid operated valve, poppet 2-way normally closed



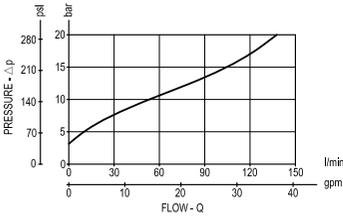
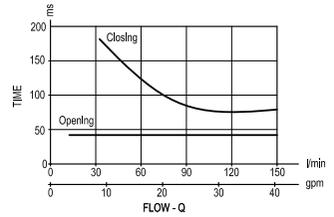
mm (Inches)

Performance graphs

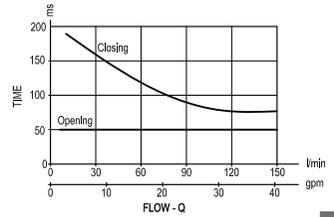
Version 1 - Version 2



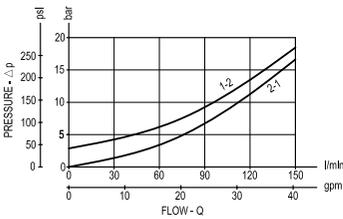
Standard



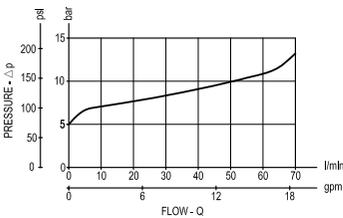
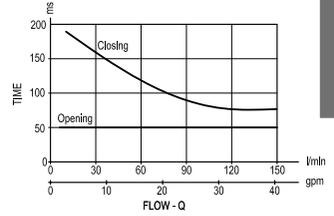
Extra spring



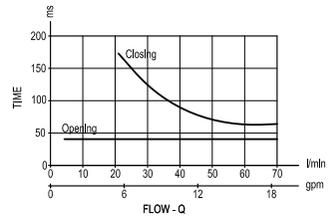
Version 3



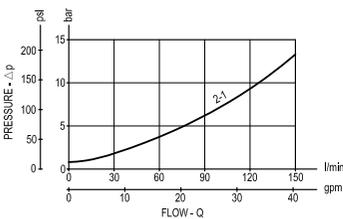
Standard



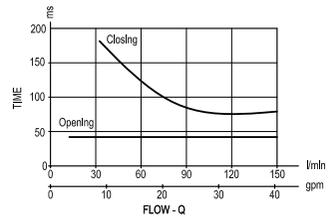
Extra spring



Version 4



Standard



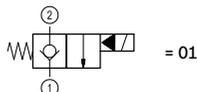
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Ordering code

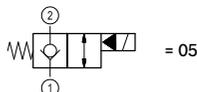
OD.15	*	21	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

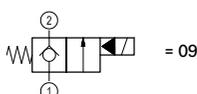
monodirectional type



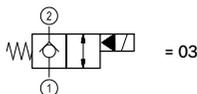
bidirectional type



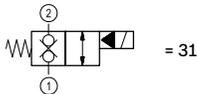
monodirectional type



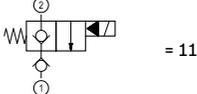
bidirectional type



bidirectional type

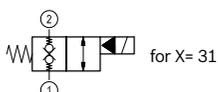
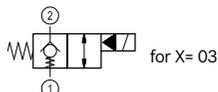
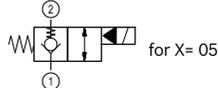


monodirectional type



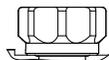
S0 = Tube not welded

S8 = Tube not welded with extra spring



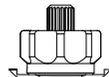
standard type

3A =



knob style manual override

3D =



Special cavity: 021-E

Type	Material number
OD1501213AS000	R901144300
OD1501213AS800	R934000707
OD1501213DS000	R901085462
OD1503213AS000	R901113666
OD1503213AS800	R934003065
OD1503213DS000	R934000792
OD1503213DS800	R934003066
OD1505213AS000	R901104395
OD1505213AS800	R901119221

Type	Material number
OD1505213DS000	R901119267
OD1509213AS000	R901132881
OD1511213AS000	R901138183
OD1511213AS800	R934001086
OD1531213AS000	R901104412
OD1531213AS800	R901119002
OD1531213DS000	R901132876
OD1531213DS800	R901125793

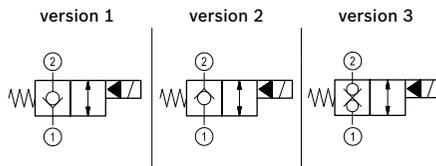
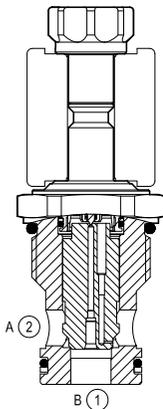
Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 16



VEI-8A-16A-NC

OD.15 - X - 75 - Y - S0



General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 80-100 (59-74)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-16A-2N see RE 18325-75

Seal kit - version 1 code material no. RG16A2010520100 R901111386

Seal kit - version 2-3 code material no. RG16A2010530100 R930003262

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

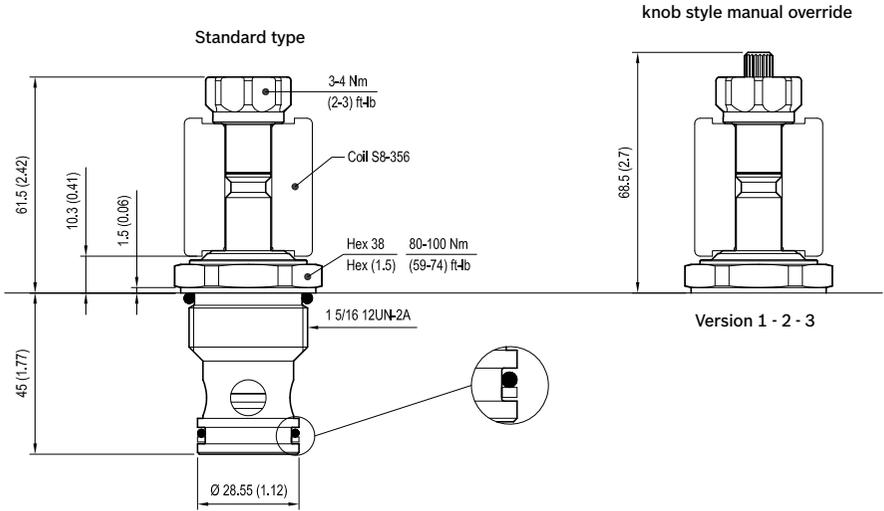
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

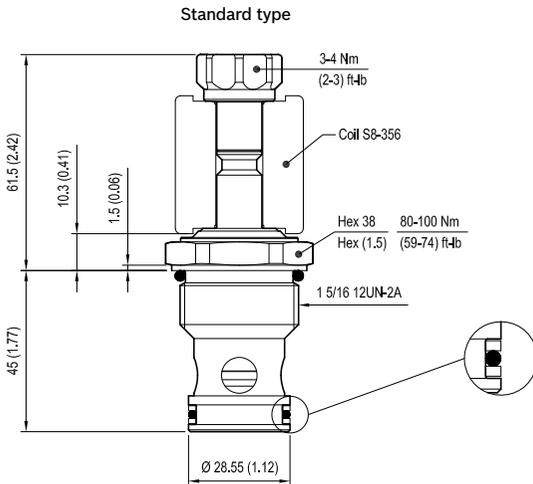
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



Version 2: Solenoid operated valve, poppet 2-way normally closed

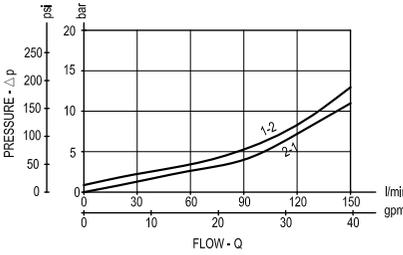
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



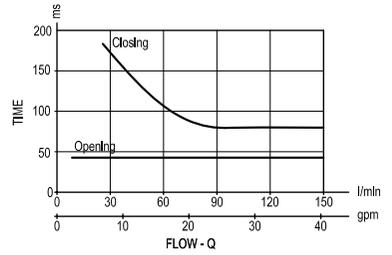
[mm (Inches)]

Performance graphs

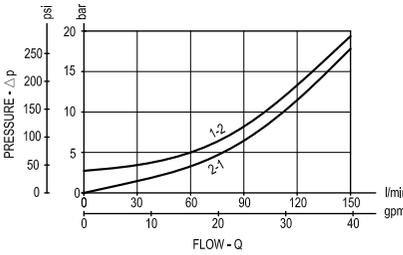
Version 1 - Version 2



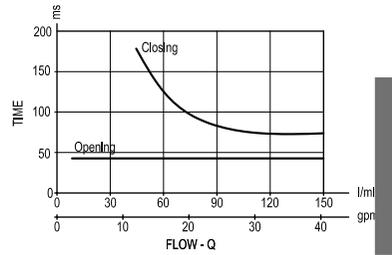
Standard



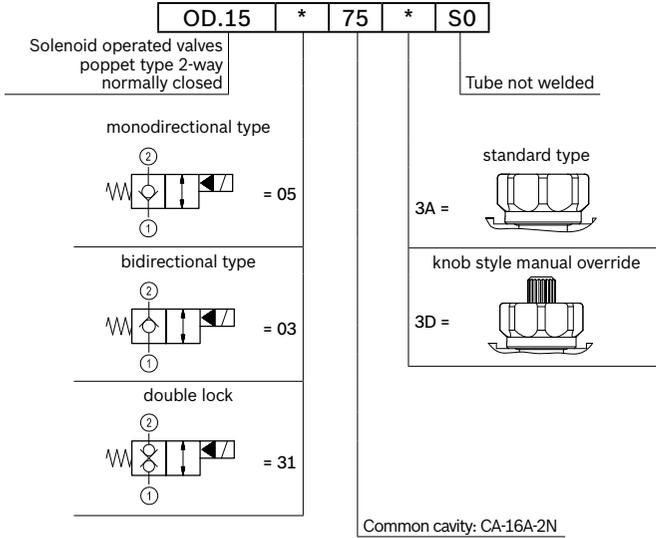
Version 3



Standard



Ordering code



Type	Material number
OD1503753AS000	R901094726
OD1505753AS000	R901094745
OD1505753DS000	R901094746
OD1531753AS000	R901094747
OD1531753DS000	R901094748

Type	Material number

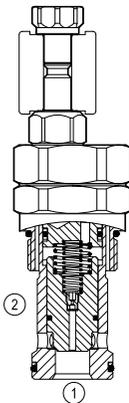
Solenoid operated valves pilot operated poppet type 2-way normally closed

Special cavity, 004

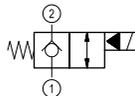


VEI-8A-2B-16-NC-NSS

OD.15.03.04 - Y - S0



version 03



General

Weight	kg (lbs)	1.13 (2.5)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Rated flow	l/min. (gpm)	260 (69)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 110-130 (81-96)

Filtration Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14

Special cavity 004 see RE 18325-75

Seal kit code RG0004020520100 material no. R930001696

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

Electrical

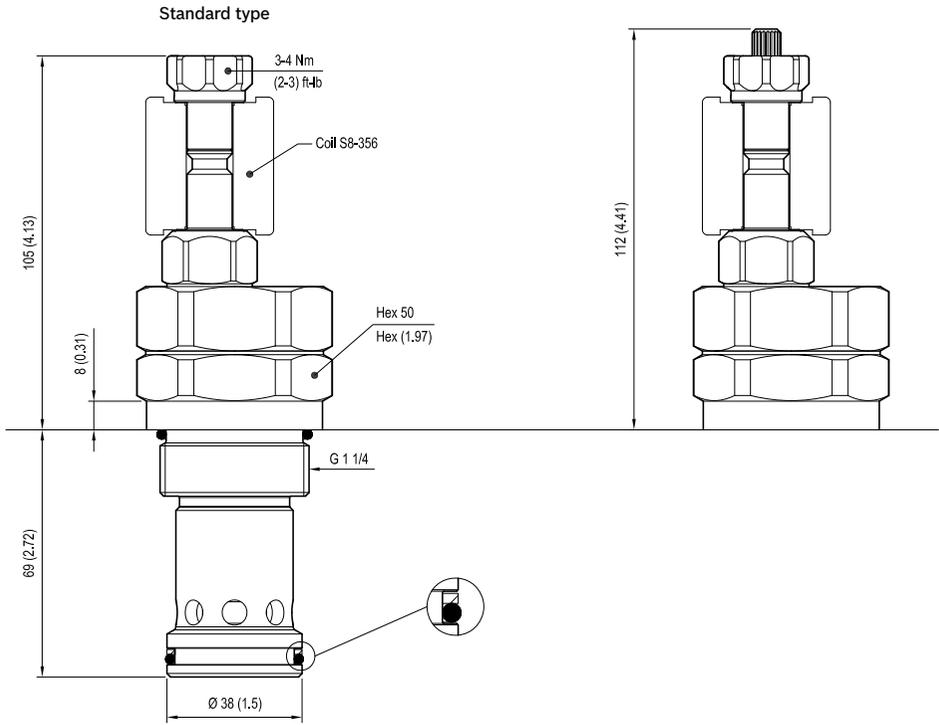
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

Solenoid operated valve, poppet 2-way normally closed - Special cavity

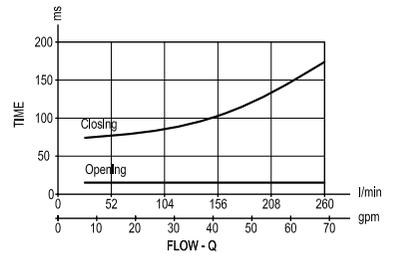
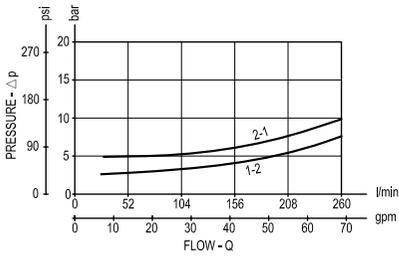
knob style manual override



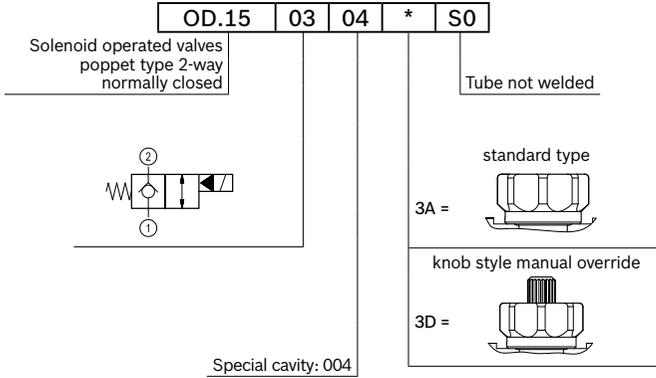
mm (Inches)

Performance graphs

Version 03



Ordering code



Type	Material number	Type	Material number
OD1503043AS000	R934000764		
OD1503043DS000	R901091110		

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 Fax +39 059 547 848
 cartridges@oilcontrol.com
 www.boschrexroth.com

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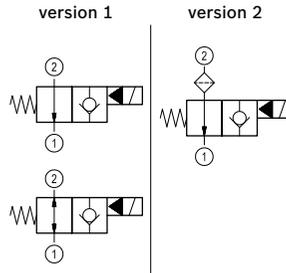
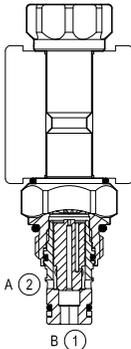
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 Subject to change.

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 08

VEI-8I-06-NA

OD-15 - X - 18 - Y - S0



General

Weight	kg (lbs)	0.11 (0.24)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-30 (0.1-8)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-75
Seal kit	code material no.	RG08A2010520100 R901101437
Seal kit coil	code material no.	RG1211PNBR7010 R934003957
Other technical data		See data sheet RE 18350-50

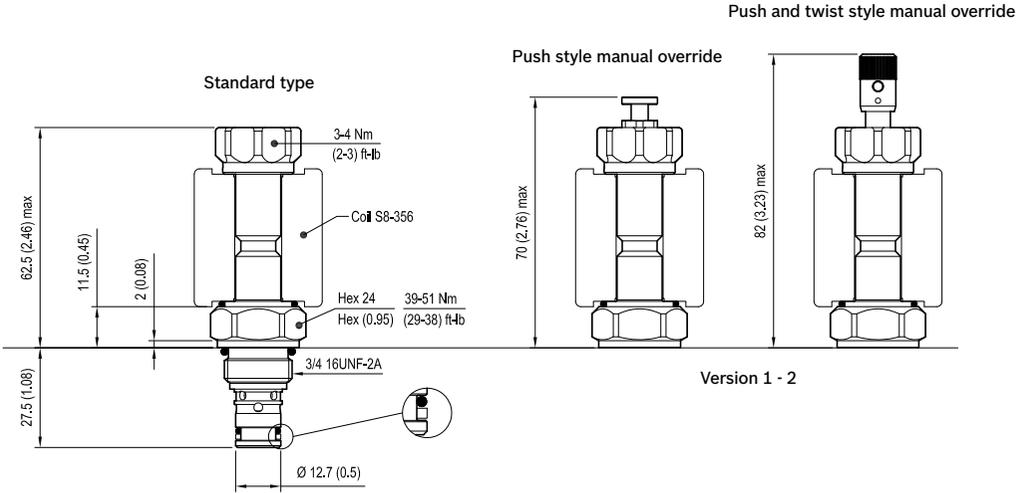
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

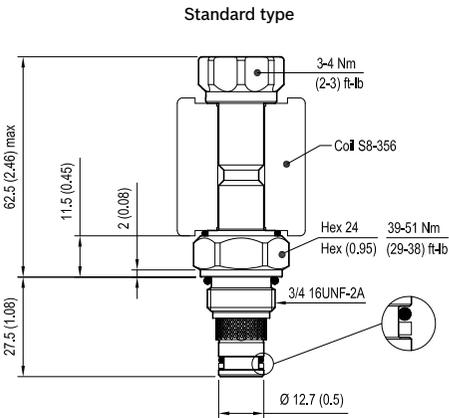
Note: Coils must be ordered separately.

Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open



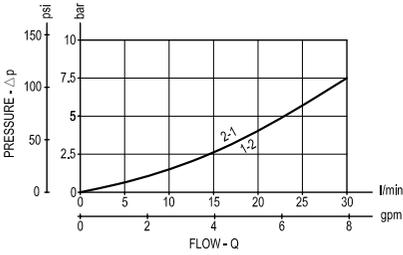
Version 2 : Solenoid operated valve, poppet 2-way normally open - filter



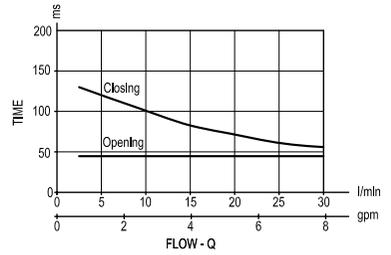
mm (Inches)

Performance graphs

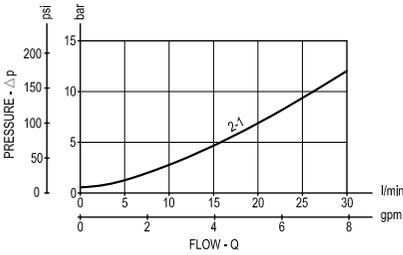
Version 1



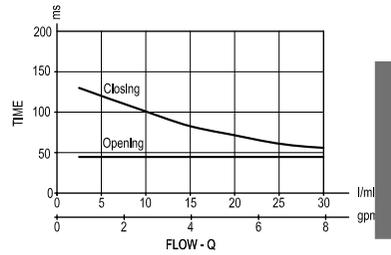
Standard



Version 2

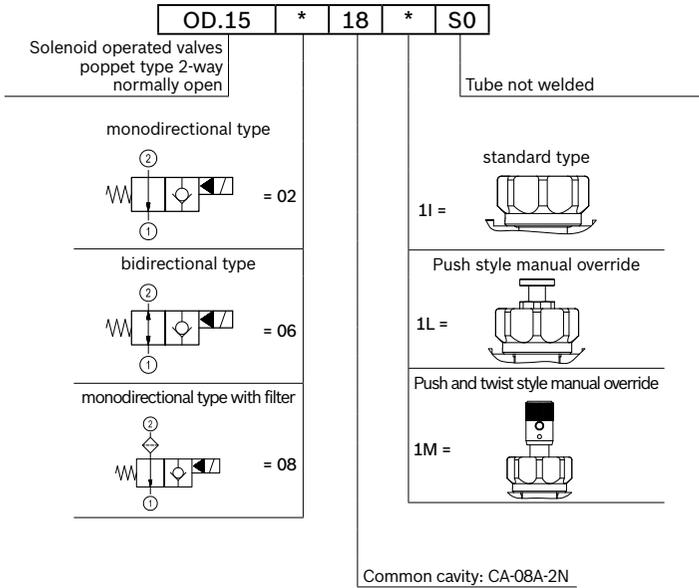


Standard



4

Ordering code



Type	Material number
OD1502181IS000	R901091107
OD1502181LS000	R901091108
OD1502181MS000	R901094588
OD1506181IS000	R901091133
OD1506181LS000	R901091134
OD1506181MS000	R901091135
OD1508181IS000	R901091146
OD1508181LS000	R901091148
OD1508181MS000	R901091149

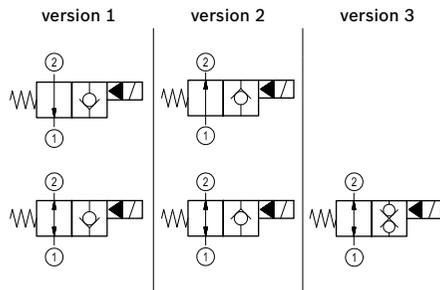
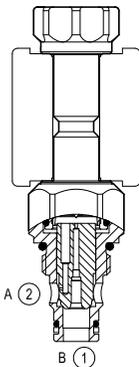
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 08

VEI-8A-06-NA

OD.15 - X - Y - Z - S0



General

Weight	kg (lbs)	0.12 (0.26)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	1.5-40 (0.4-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids

Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit version 1 code RG08A2010520100 material no. R901101437

Seal kit version 2-3 code RG08A2010530100 material no. R901101544

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

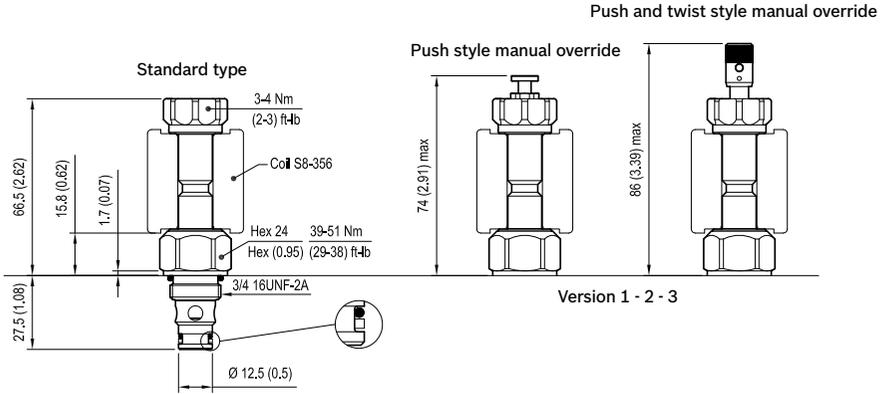
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

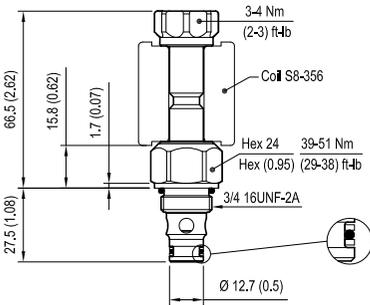
Version 1: Solenoid operated valve, poppet 2-way normally open



Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open

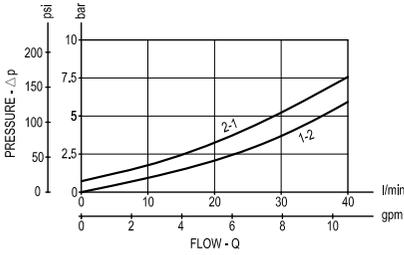
Standard type



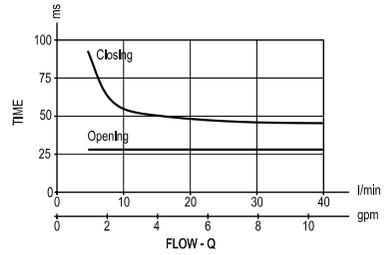
mm (Inches)

Performance graphs

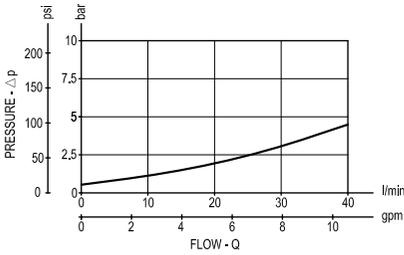
Version 1 - Version 2



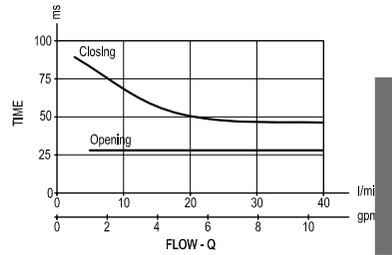
Standard



Version 3



Standard



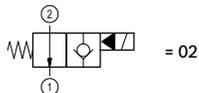
Ordering code

OD.15	X	Y	Z	S0
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Solenoid operated valves
poppet type 2-way
normally open

Tube not welded

monodirectional type

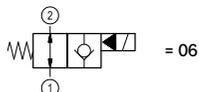


standard type

1A =



bidirectional type

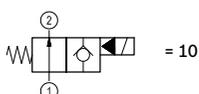


Push style manual override

1B =

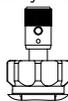


monodirectional type

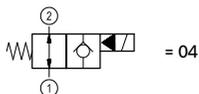


Push and twist style manual override

1C =

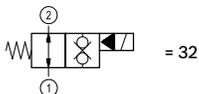


bidirectional type



18 = Common cavity: CA-08A-2N

bidirectional type

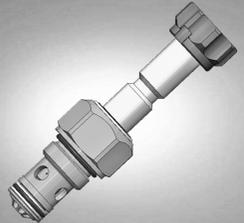


Type	Material number
OD1502181AS000	R901091102
OD1502181BS000	R901091105
OD1502181CS000	R901091106
OD1506181AS000	R901091130
OD1506181BS000	R901091131
OD1506181CS000	R901091132
OD1504181AS000	R901091121
OD1504181BS000	R901091122
OD1504181CS000	R901091123

Type	Material number
OD1510181AS000	R901091152
OD1510181BS000	R901091154
OD1510181CS000	R901091155
OD1532181AS000	R901091171
OD1532181BS000	R901091173
OD1532181CS000	R901091174

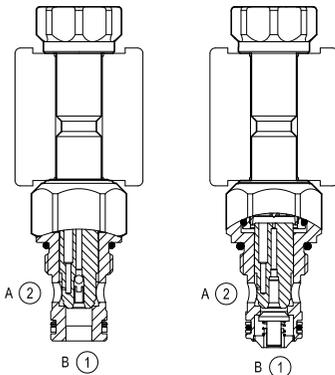
Solenoid operated valves pilot operated poppet type 2-way normally open

Special cavity, 019-E

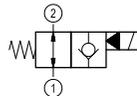


VEI-8A-06-NA

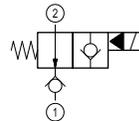
OD.15 - X - 19 - Z



version 06



version 12



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	1.5-40 (0.4-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)

Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Special cavity		019-E see RE 18325-75

Seal kit version 06	code	RG19E201052010
	material no.	R934003560

Seal kit version 12	code	RG19E201053010
	material no.	R934003561

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data		See data sheet RE 18350-50
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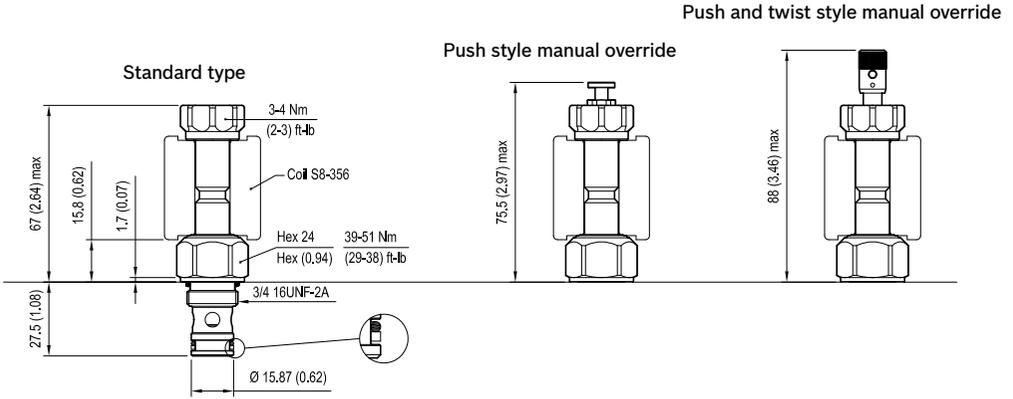
Electrical

Type of voltage		DC voltage
Coil type		S8-356 see RE 18325-90
Supply voltage		See data sheet RE 18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90

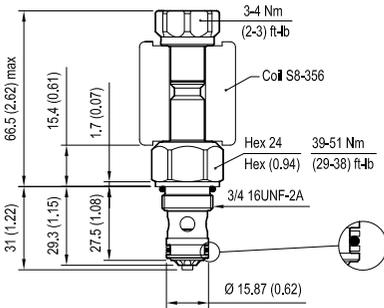
Note: Coils must be ordered separately.

Dimensions

Version 06: Solenoid operated valve, poppet 2-way normally open



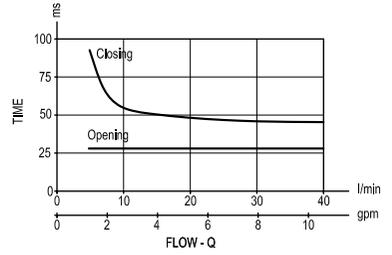
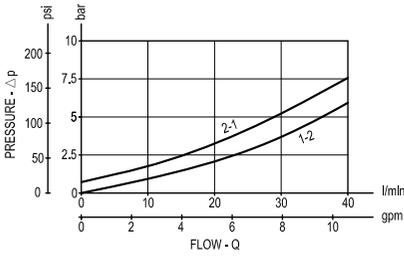
Version 12: Solenoid operated valve, poppet 2-way normally open



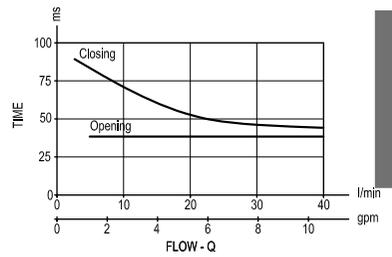
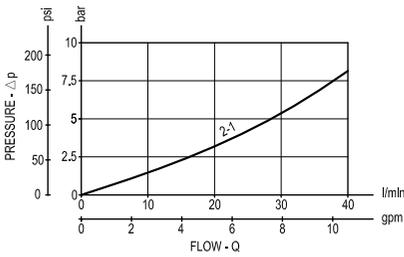
mm (Inches)

Performance graphs

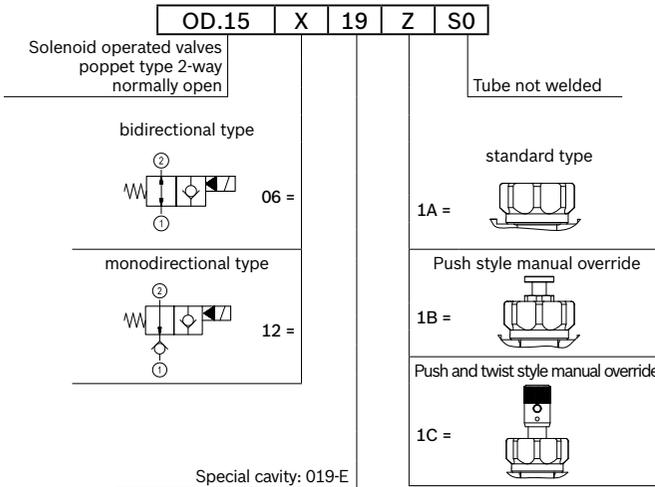
Version 06



Version 12



Ordering code



Type	Material number
OD1506191AS000	R934000989
OD1506191BS000	R934000990
OD1506191CS000	R934000991
OD1512191AS000	R901091159
OD1512191BS000	R901091161
OD1512191CS000	R901091162

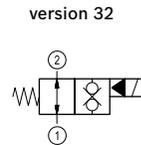
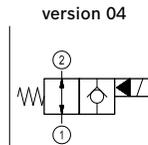
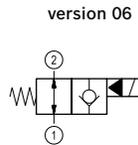
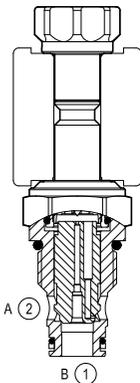
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 10

VEI-8A-10-NA

OD.15 - X - 36 - Y - S0



4

General

Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-42)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-2N see RE 18325-75
Seal kit - version 1	code material no.	RG10A2010520100 R901111363
Seal kit - version 2-3	code material no.	RG10A2010530100 R901111366
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

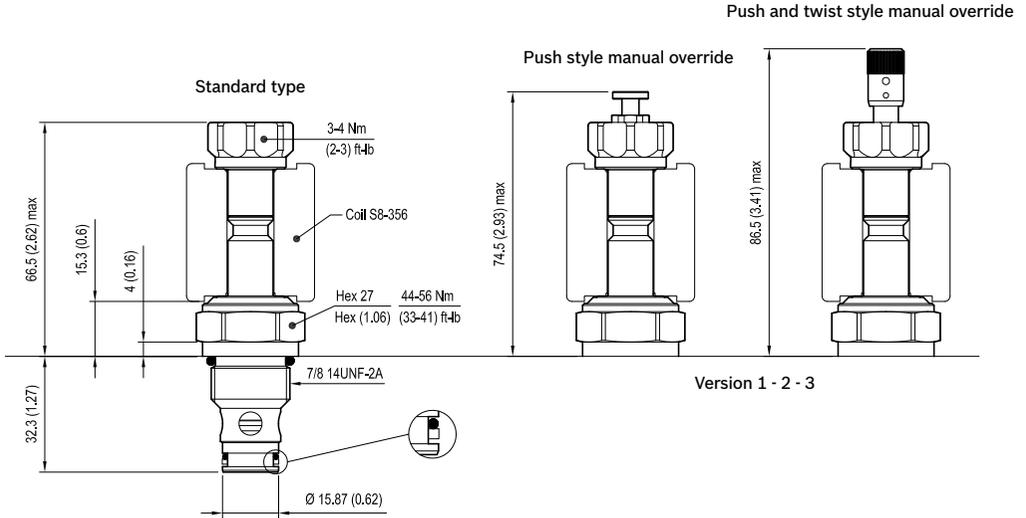
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

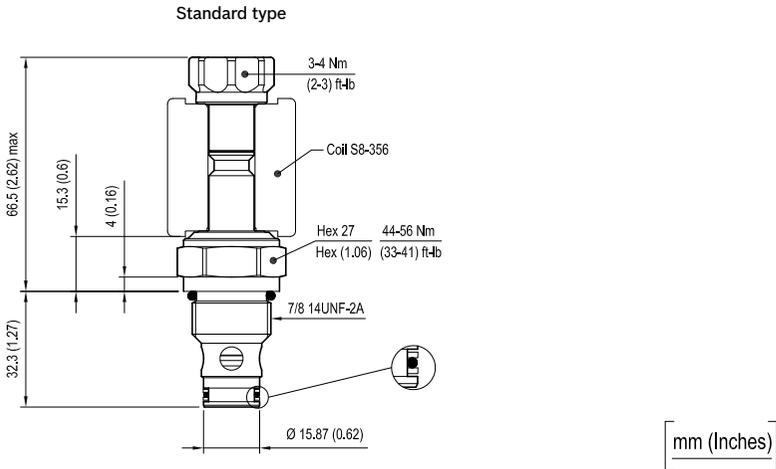
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open



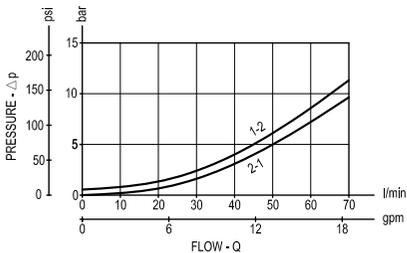
Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open

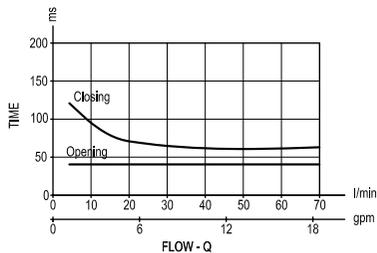


Performance graphs

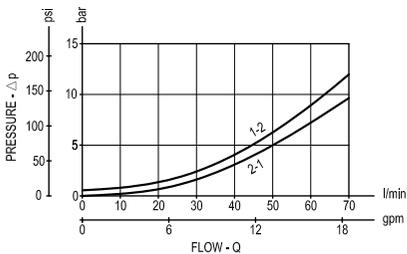
Version 06 - Version 04



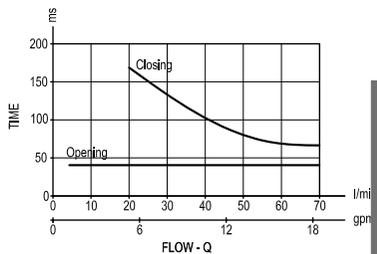
Standard



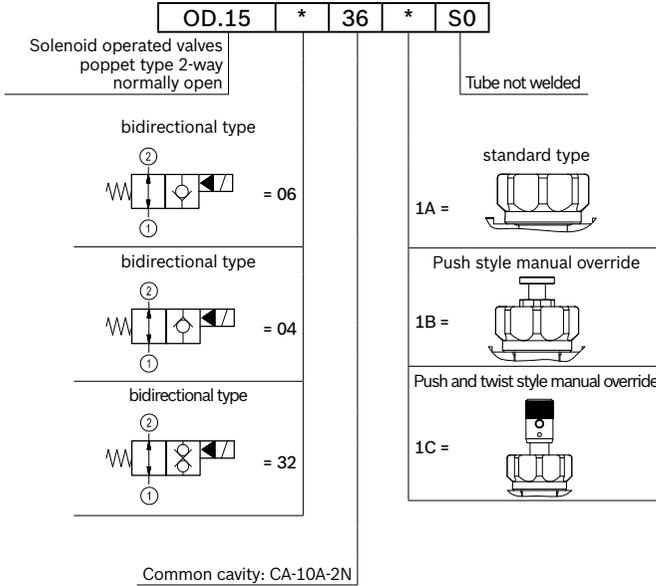
Version 32



Standard



Ordering code



Type	Material number
OD1504361AS000	R901091124
OD1504361BS000	R901091125
OD1504361CS000	R901091126
OD1506361AS000	R901080489
OD1506361BS000	R901091136
OD1506361CS000	R901091137
OD1532361AS000	R901091175
OD1532361BS000	R901091176
OD1532361CS000	R901091178

Type	Material number

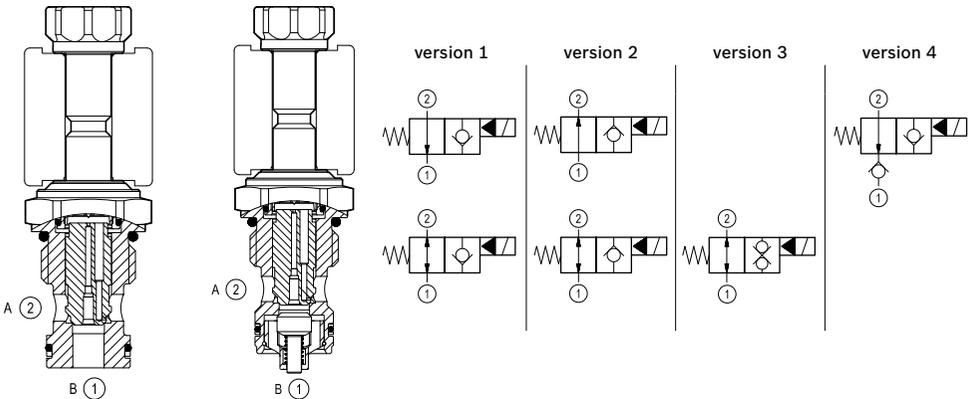
Solenoid operated valves pilot operated poppet type 2-way normally open

Special cavity, 017-E



VEI-8A-09-NA

OD.15 - X - 17 - Y - S0



General

Weight	kg (lbs)	0.21 (0.46)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 54-66 (40-49)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 017-E see RE 18325-75

Seal kit - version 1 code RG17E201052010 material no. R934003562

Seal kit - version 2-3-4 code RG17E201053010 material no. R934003563

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

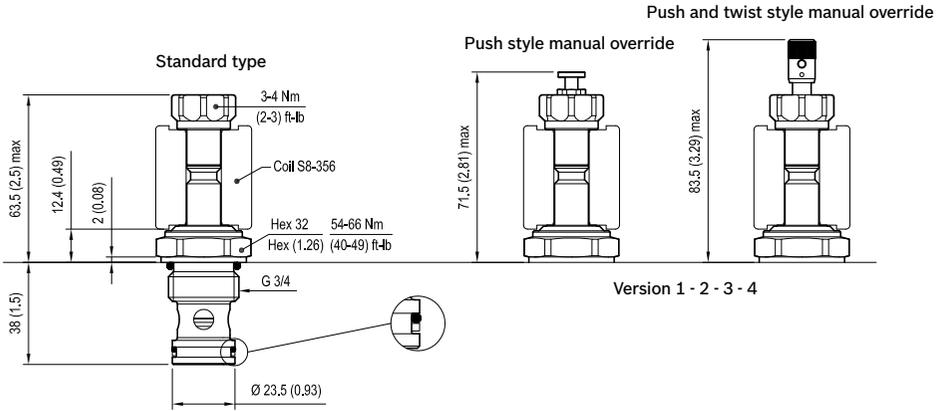
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

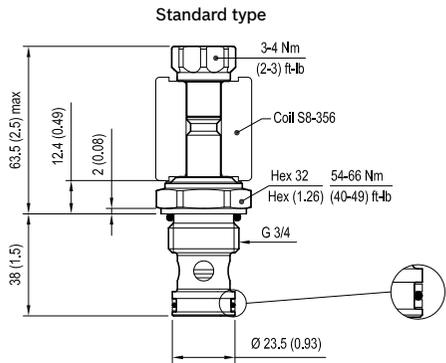
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open

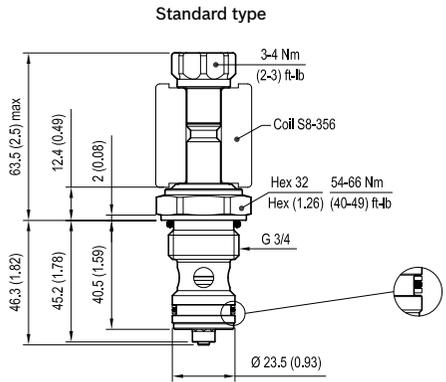


Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open



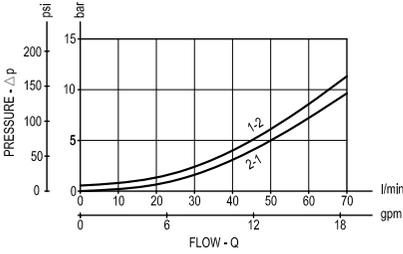
Version 4: Solenoid operated valve, poppet 2-way normally open



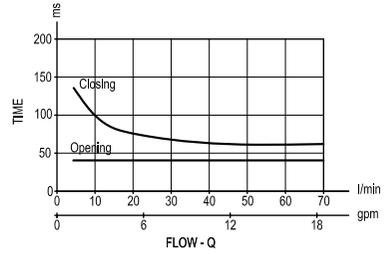
mm (Inches)

Performance graphs

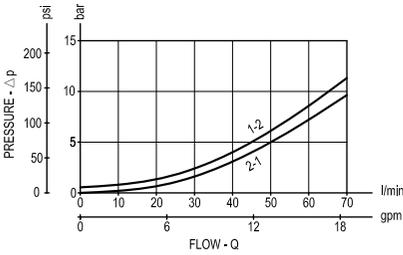
Version 1 - Version 2



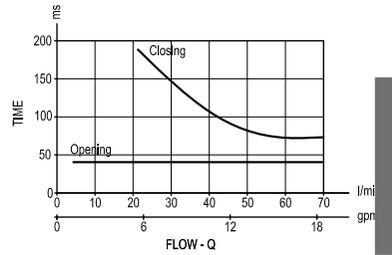
Standard



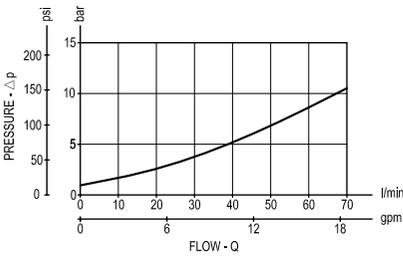
Version 3



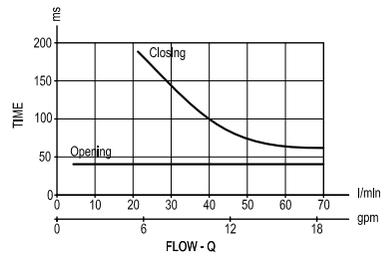
Standard



Version 4



Standard



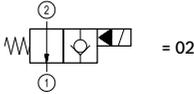
Ordering code

OD.15	*	17	*	S0
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Solenoid operated valves
poppet type 2-way
normally open

Tube not welded

monodirectional type

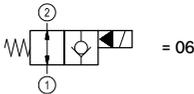


standard type

1A =



bidirectional type

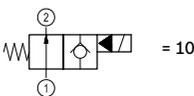


Push style manual override

1B =

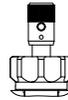


monodirectional type

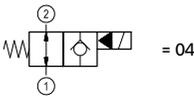


Push and twist style manual override

1C =

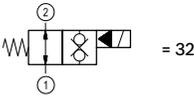


bidirectional type

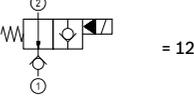


Special cavity: 017-E

bidirectional type



monodirectional type



Type	Material number
OD1502171AS000	R934000718
OD1502171BS000	R934000721
OD1502171CS000	R901177370
OD1506171AS000	R901113677
OD1506171BS000	R901113680
OD1506171CS000	R934000956
OD1504171AS000	R901113668
OD1504171BS000	R901113669
OD1504171CS000	R934000809

Type	Material number
OD1510171AS000	R934001051
OD1510171BS000	R934004148
OD1510171CS000	R934001052
OD1512171AS000	R934001090
OD1532171AS000	R901113683
OD1532171BS000	R901113684
OD1532171CS000	R934001189

RE 18323-14/08.10 1/4
 Replaces: RE 00162-02/01.06

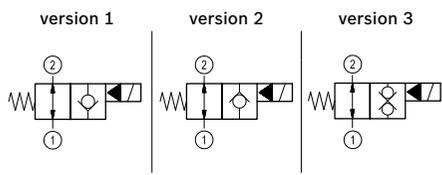
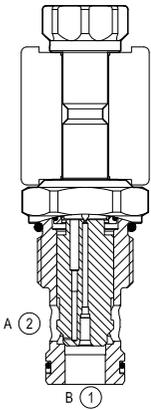
Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 12



VEI-8A-12A-NA

OD.15 - X - 89 - Y - S0



General

Weight	kg (lbs)	0.23 (0.51)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min. (gpm)	5-150 (1-40)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	54-66 (40-49)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-12A-2N see RE 18325-75
Seal kit - version 1	code material no.	RG12A2010520100 R901111377
Seal kit - version 2-3	code material no.	RG12A2010530100 R930003374
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

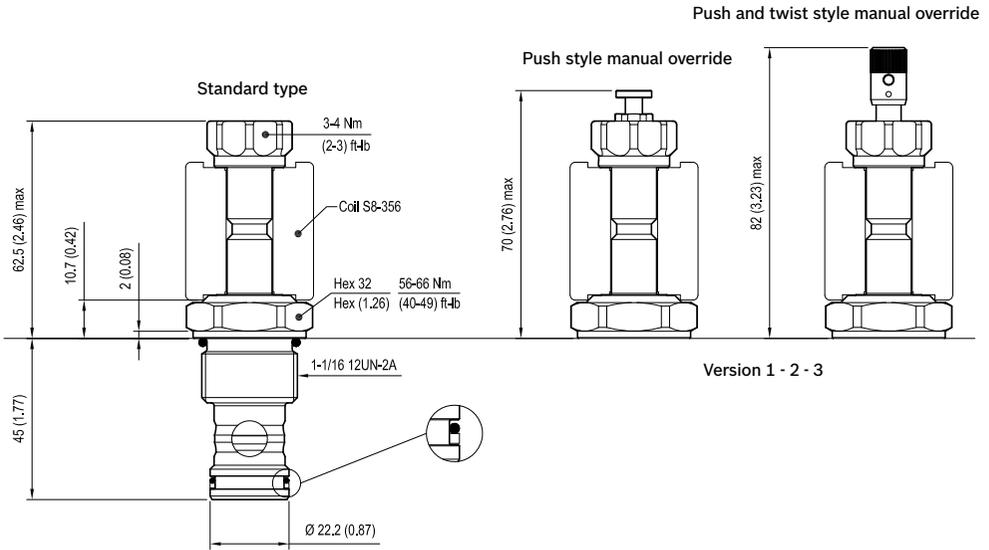
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

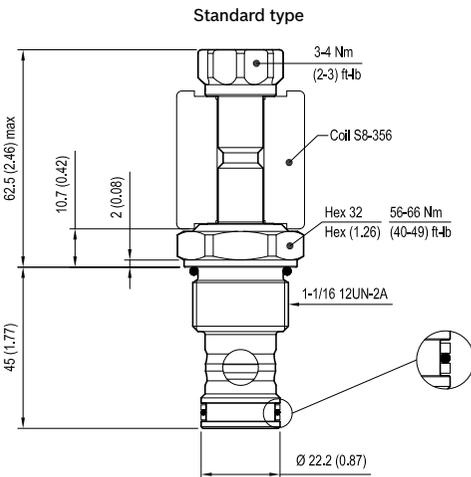
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open



Version 2: Solenoid operated valve, poppet 2-way normally open

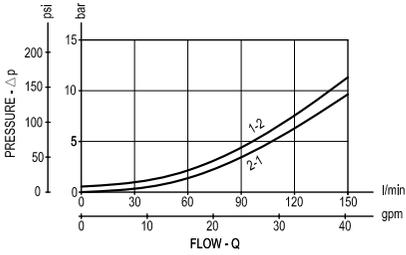
Version 3: Solenoid operated valve, poppet 2-way double lock normally open



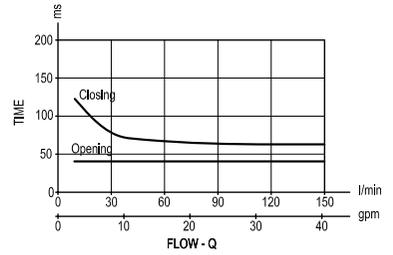
mm (Inches)

Performance graphs

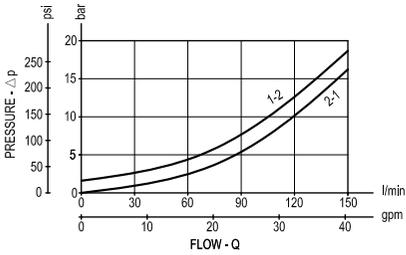
Version 1 - Version 2



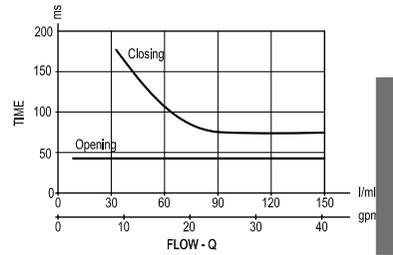
Standard



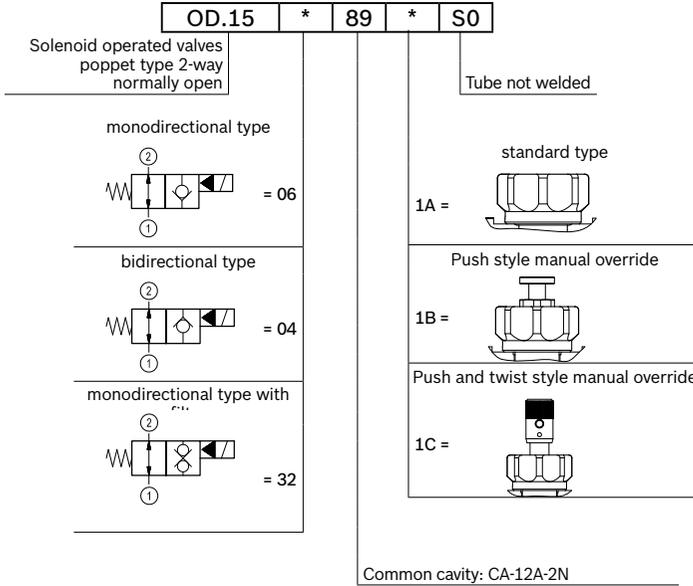
Version 3



Standard



Ordering code



Type	Material number
OD1504891AS000	R901090961
OD1504891BS000	R901090960
OD1506891AS000	R901091139
OD1506891BS000	R901091140
OD1506891CS000	R901091141
OD1532891AS000	R901091179
OD1532891BS000	R901091180
OD1532891CS000	R901091182

Type	Material number

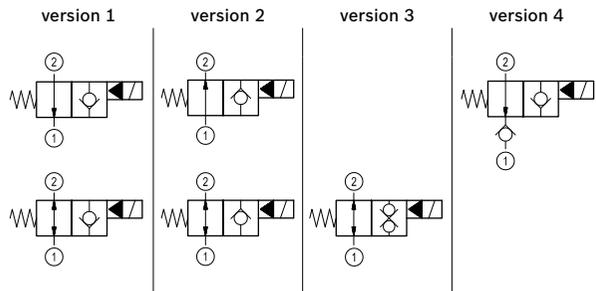
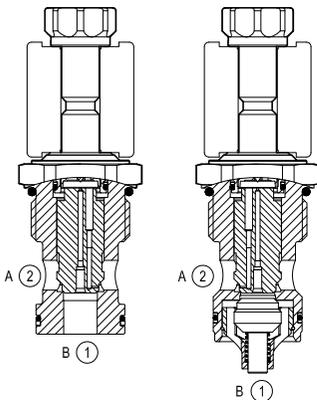
Solenoid operated valves pilot operated poppet type 2-way normally open

Special cavity, 021-E



VEI-8A-12-NA

OD.15 - X - 21 - Y - S0



4

General

Weight	kg (lbs)	0.34 (0.75)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 80-100 (59-74)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 021-E see RE 18325-75

Seal kit - version 1 code RG21E201052010 material no. R934003566

Seal kit - version 2-3-4 code RG21E201053010 material no. R934003567

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

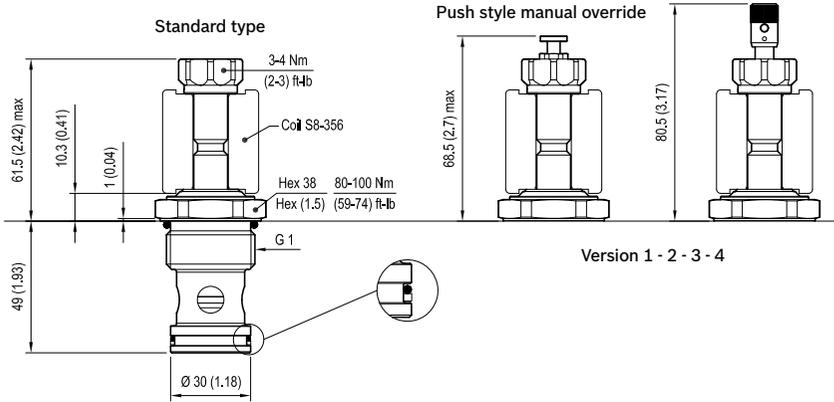
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

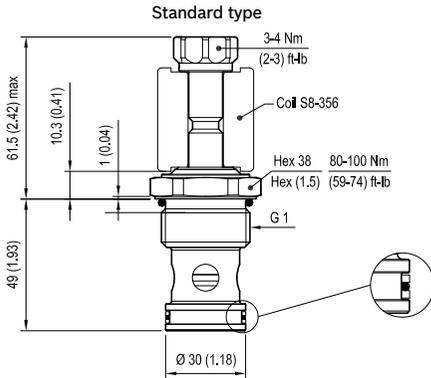
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open

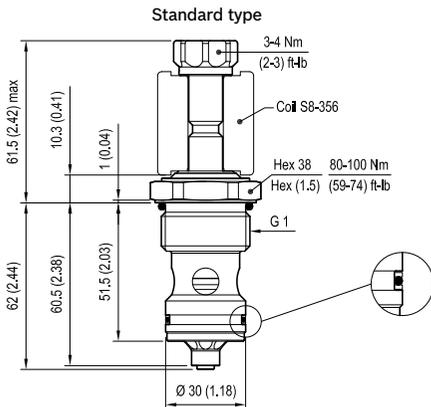


Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open



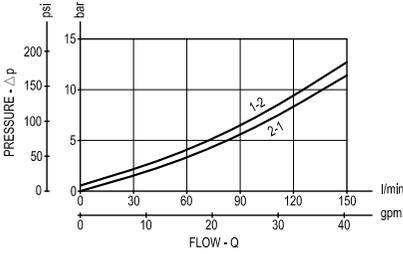
Version 4: Solenoid operated valve, poppet 2-way normally open



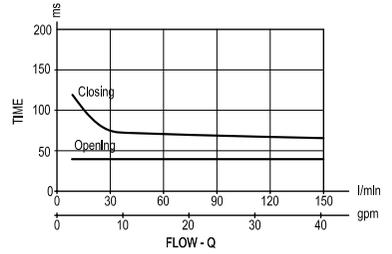
mm (Inches)

Performance graphs

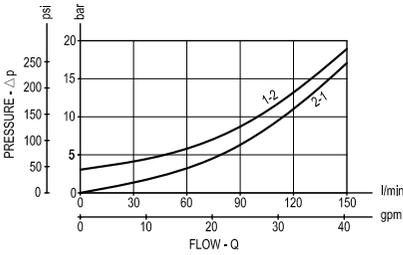
Version 1 - Version 2



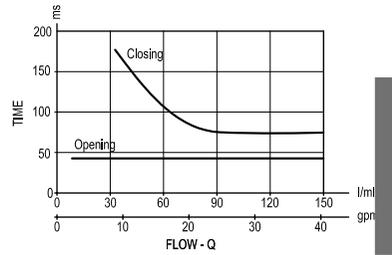
Standard



Version 3

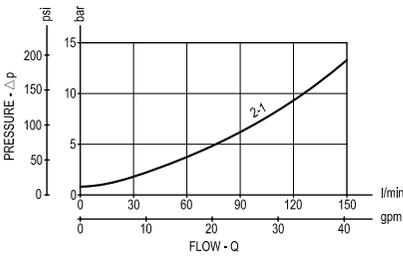


Standard

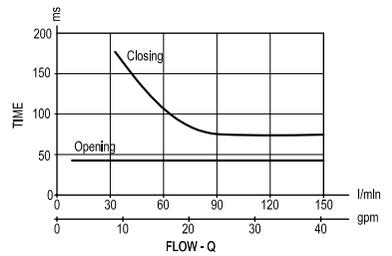


4

Version 4



Standard

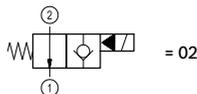


Ordering code

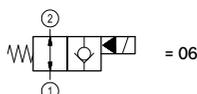
OD.15	*	21	*	S0
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Solenoid operated valves
poppet type 2-way
normally open

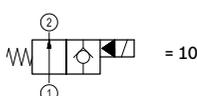
monodirectional type



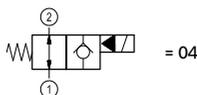
bidirectional type



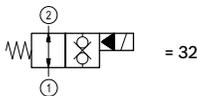
monodirectional type



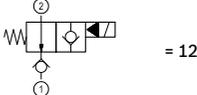
bidirectional type



bidirectional type



monodirectional type



Tube not welded

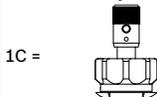
standard type



Push style manual override



Push and twist style manual override



Special cavity: 021-E

Type	Material number
OD1502211AS000	R987067733
OD1502211BS000	R901186074
OD1502211CS000	R934000758
OD1504211AS000	R901113671
OD1504211BS000	R901113672
OD1504211CS000	R934000820
OD1506211AS000	R901104409
OD1506211BS000	R901113681
OD1506211CS000	R901172041

Type	Material number
OD1510211AS000	R901085464
OD1510211BS000	R934001061
OD1512211AS000	R934001100
OD1512211BS000	R934001101
OD1512211CS000	R934001102
OD1532211AS000	R901104415
OD1532211BS000	R901113685
OD1532211CS000	R901191824

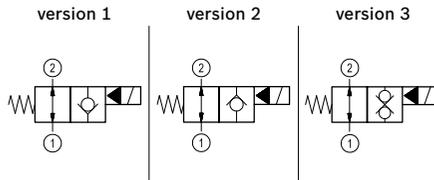
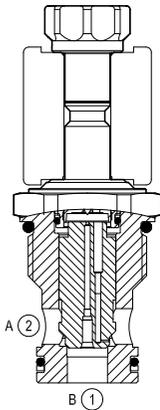
Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 16



VEI-8A-16A-NA

OD.15 - X - 75 - Y - S0



General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 80-100 (59-74)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-16A-2N see RE 18325-75

Seal kit - version 1 code RG16A2010520100 material no. R901111386

Seal kit - version 2-3 code RG16A2010530100 material no. R930003262

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

Electrical

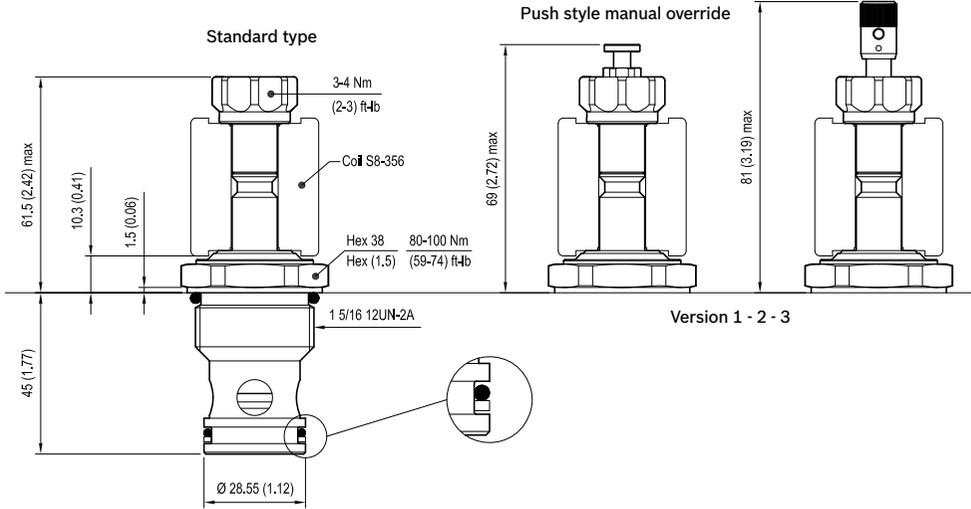
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

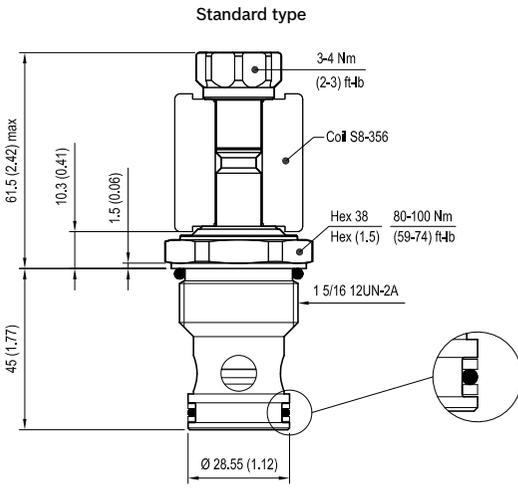
Version 1: Solenoid operated valve, poppet 2-way normally open

Push and twist style manual override



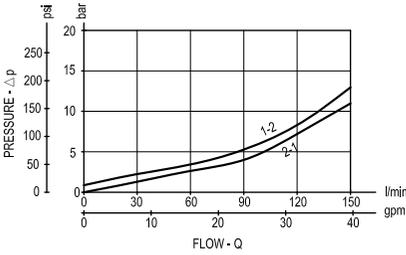
Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open

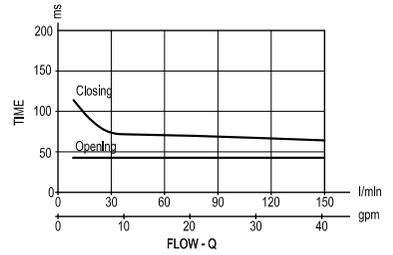


Performance graphs

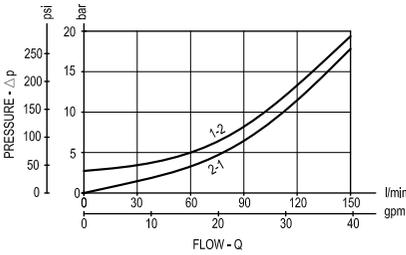
Version 1 - Version 2



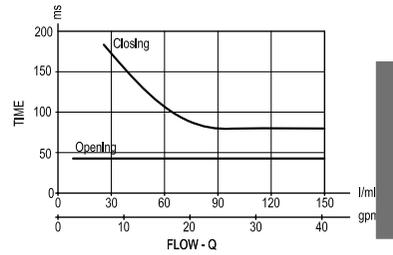
Standard



Version 3

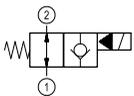
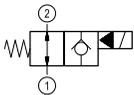
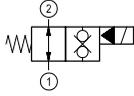


Standard



4

Ordering code

	OD.15	*	75	*	S0	
<p>Solenoid operated valves poppet type 2-way normally open</p>						<p>Tube not welded</p>
<p>bidirectional type</p>  <p>= 06</p>						<p>standard type</p> <p>1A = </p>
<p>bidirectional type</p>  <p>= 04</p>						<p>Push style manual override</p> <p>1B = </p>
<p>double lock</p>  <p>= 32</p>						<p>Push and twist style manual override</p> <p>1C = </p>
						<p>Common cavity: CA-16A-2N</p>

Type	Material number
OD1504751AS000	R901094731
OD1506751AS000	R901095953
OD1506751BS000	R901095955
OD1506751CS000	R901095956
OD1532751AS000	R901094753
OD1532751BS000	R901094754
OD1532751CS000	R901094755

Type	Material number

Bosch Rexroth Oil Control S.p.A.
 Via Leonardo da Vinci 5
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 Tel. +39 059 887 611
 Fax +39 059 547 848
 cartridges@oilcontrol.com
 www.boschrexroth.com

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Subject to change.

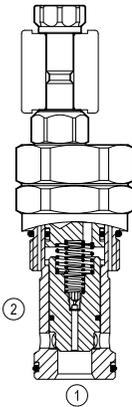
Solenoid operated valves pilot operated poppet 2-way normally open

Special cavity, 004

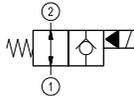


VEI-8A-2B-16-NA-NSS

OD.15.04.04 - Y - S0



version 04



General

Weight	kg (lbs)	1.13 (2.5)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Rated flow	l/min. (gpm)	260 (69)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	110-130 (81-96)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		004 see RE 18325-75
Seal kit	code material no.	RG0004020520100 R930001696
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

Electrical

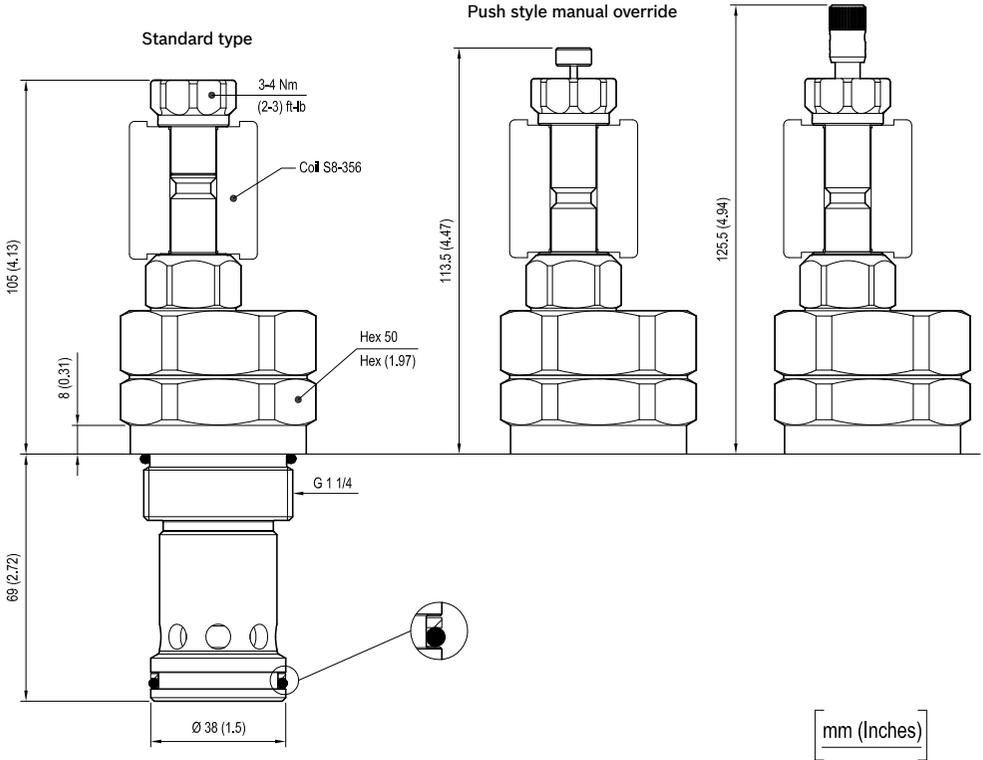
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

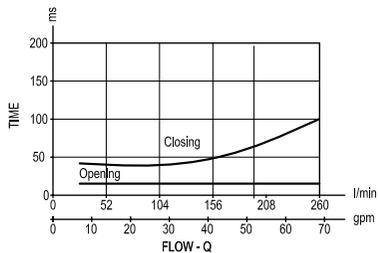
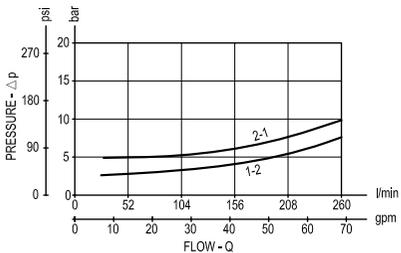
Solenoid operated valve, poppet 2-way normally open - Special cavity

Push and twist style manual override

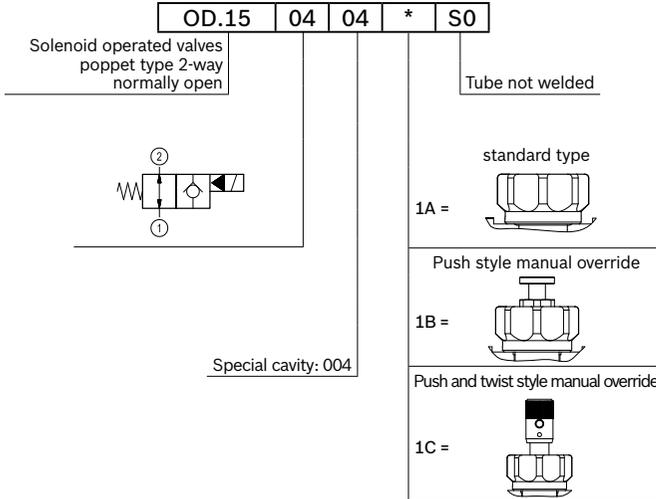


Performance graphs

Version 04



Ordering code



Type	Material number
OD1504041AS000	R901091118
OD1504041BS000	R901091119
OD1504041CS000	R901091120

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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Fax +39 059 547 848
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www.boschrexroth.com

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Subject to change.

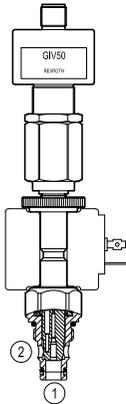
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Common cavity, Size 08

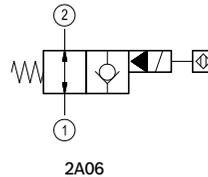


VEI-8A-2A-06-NA-S-M-NSS

OD.15.06.18.1D.S2 - Z



Version 06



General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-40 (0.66-11)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	30-35 (22-26)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A201052010 R901101437
Other technical data		See data sheet RE 18350-50

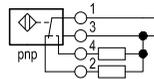
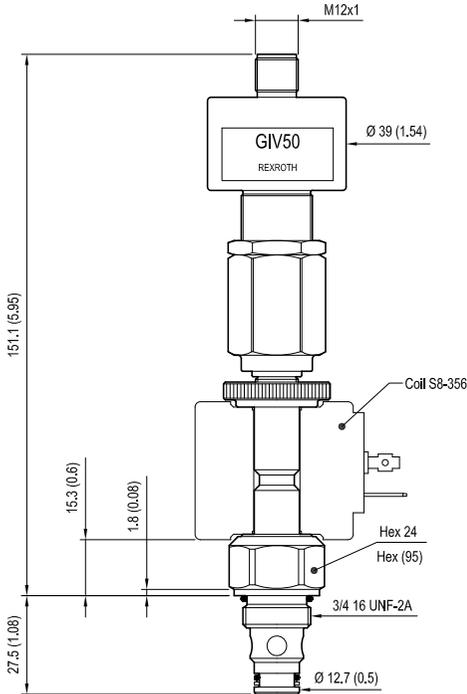
Electrical

Type of voltage		DC voltage
Coil type		S8-356
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle	%	100 see RE 18325-90
Type of protection		See data sheet RE 18325-90

Please consider that a proper function of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

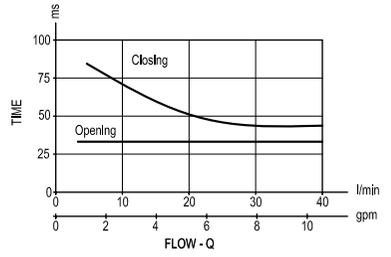
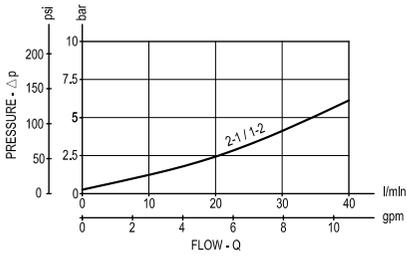
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



mm (Inches)

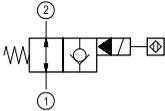
Performance graphs



Ordering code

OD.15	06	18	1DS2	Z	
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Solenoid operated valves
poppet 2-way normally
open proximity sensor



OB = 12 V DC _____

OC = 24 V DC _____

Note: please consult factory for
different voltages.

Common cavity: CA-08A-2N _____

Type	Material number	Type	Material number
OD1506181DS2OB	R934001226		
OD1506181DS2OC	R934001227		

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Subject to change.

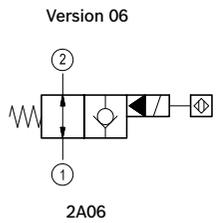
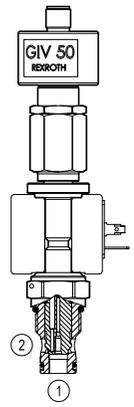
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Special cavity, 076-E



VEI-8A-2A-09-NA-S-M-NSS

OD.15.06.76.1D.S2 - Z



General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-70 (0.66-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	41-47 (30-35)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Special cavity		076-E see RE 18325-75
Seal kit	code material no.	RG10A201052010 R901111363
Other technical data		See data sheet RE 18350-50

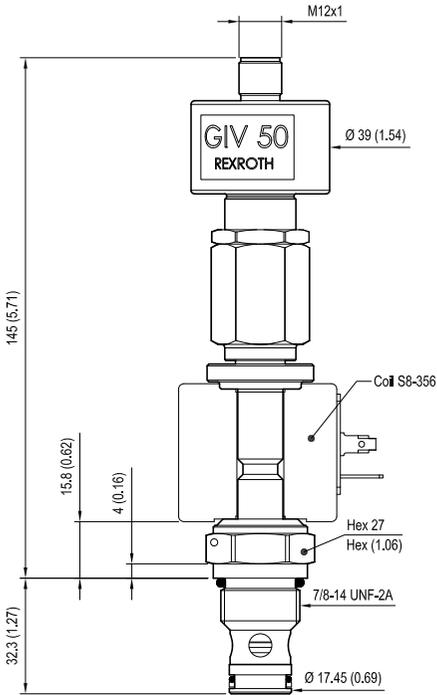
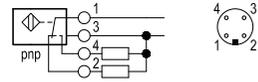
Electrical

Type of voltage		DC voltage
Coil type		S8-356
Supply voltage		See data sheet RE 18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle	%	100 see RE 18325-90
Type of protection		See data sheet RE 18325-90

Please consider that a proper function of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

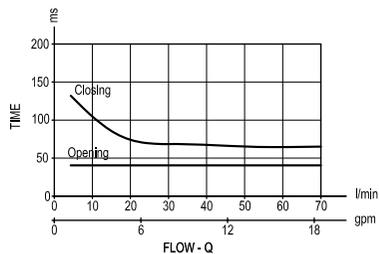
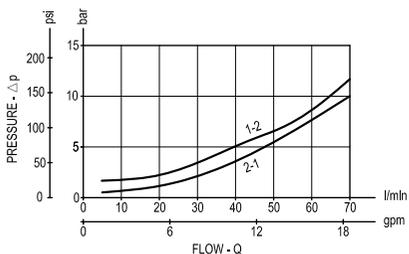
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor

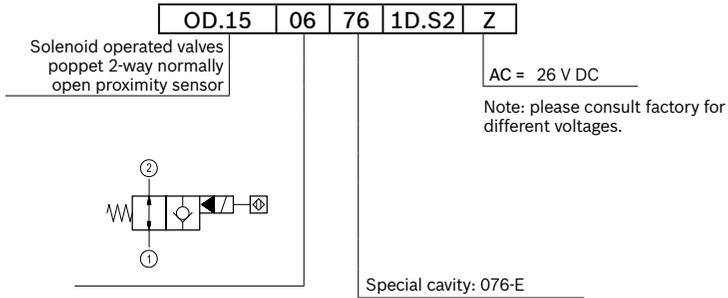


mm (Inches)

Performance graphs



Ordering code



Type	Material number	Type	Material number
OD1506761DS2AC	R934001233		

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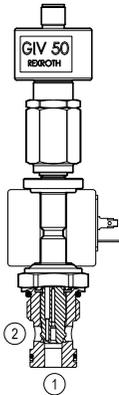
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Special cavity, 017-E

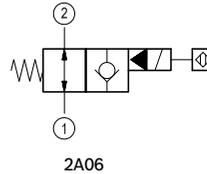


VEI-8A-2A-09-NA-S-M-NSS

OD.15.06.17.1D.S0 - Z



Version 06



General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	3.5-70 (1-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	50-55 (37-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit	code material no.	RG17E201052010 R934003562
Other technical data		See data sheet RE 18350-50

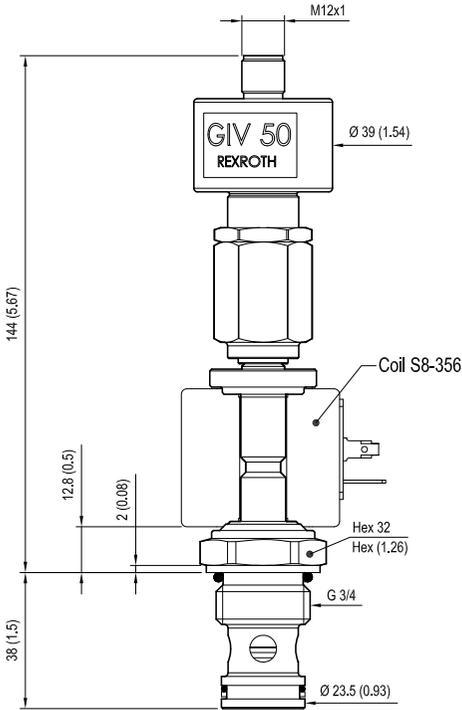
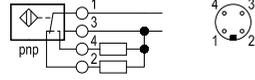
Electrical

Type of voltage		DC voltage
Coil type		S8-356
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle	%	100 see RE 18325-90
Type of protection		See data sheet RE 18325-90

Please consider that a proper function of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

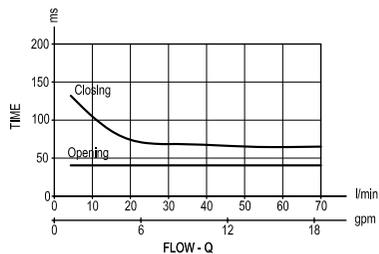
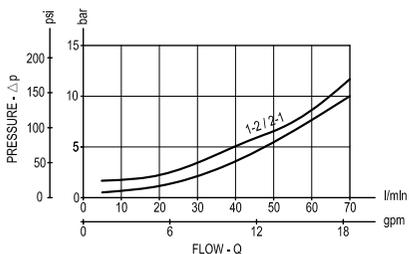
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



[mm (Inches)]

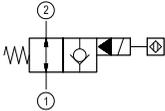
Performance graphs



Ordering code

OD.15	06	17	1D.S0	*	
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Solenoid operated valves
poppet 2-way normally
open proximity sensor



OB = 12 V DC
OC = 24 V DC

Note: please consult factory for
different voltages.

Special cavity: 017-E

Type	Material number	Type	Material number
OD1506171DS2OB	R934001215		
OD1506171DS2OC	R934001206		

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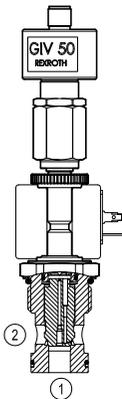
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Special cavity, 021-E

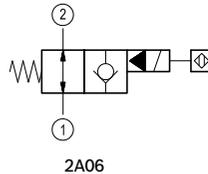


VEI-8A-2A-12-NA-S-M-NSS

OD.15.06.21.1D.S2 - Z



Version 06



General

Weight	kg (lbs)	0.85 (1.9)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	3.5-150 (0.9-40)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	80-85 (59-63)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		021-E see RE 18325-75
Seal kit	code material no.	RG21E201052010 R934003566
Other technical data		See data sheet RE 18350-50

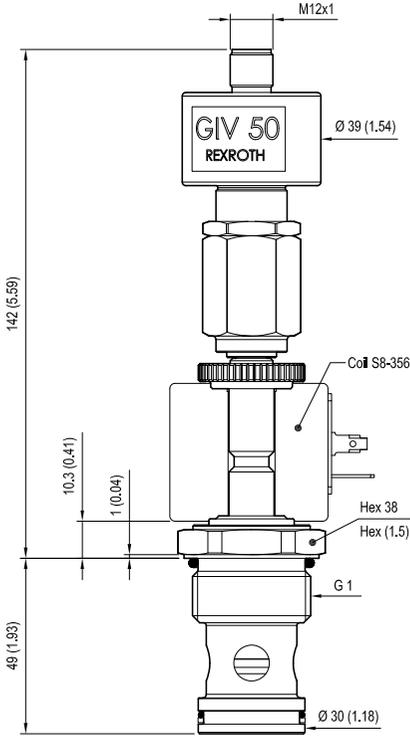
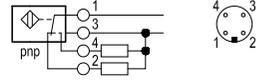
Electrical

Type of voltage		DC voltage
Coil type		S8-356
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle	%	100 see RE 18325-90
Type of protection		See data sheet RE 18325-90

Please consider that a proper function of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

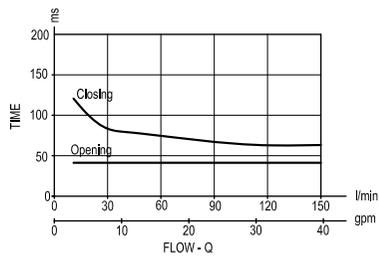
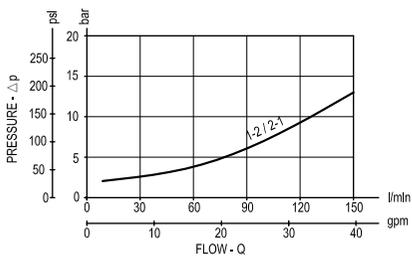
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



mm (Inches)

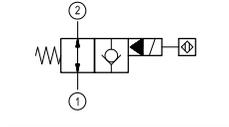
Performance graphs



Ordering code

	OD.15	06	21	1D	S2	Z
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Solenoid operated valves
poppet 2-way normally
open proximity sensor



OB = 12 V DC
OC = 24 V DC

Note: please consult factory for
different voltages.

Special cavity: 021E

Type	Material number	Type	Material number
OD1506211DS2OB	R934001228		
OD1506211DS2OC	R934001208		

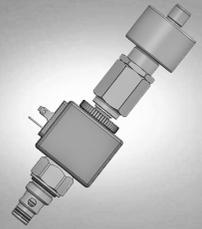
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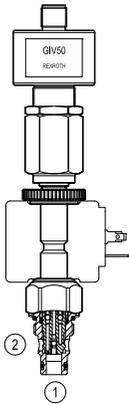
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Common cavity, Size 08

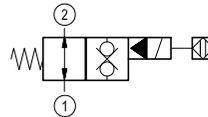


VEI-8A-2T-06-NA-S-M-NSS

OD.15.32.18.1D.S2 - Z



Version 32



4

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-40 (0.66-11)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	30-35 (22-26)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

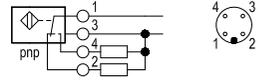
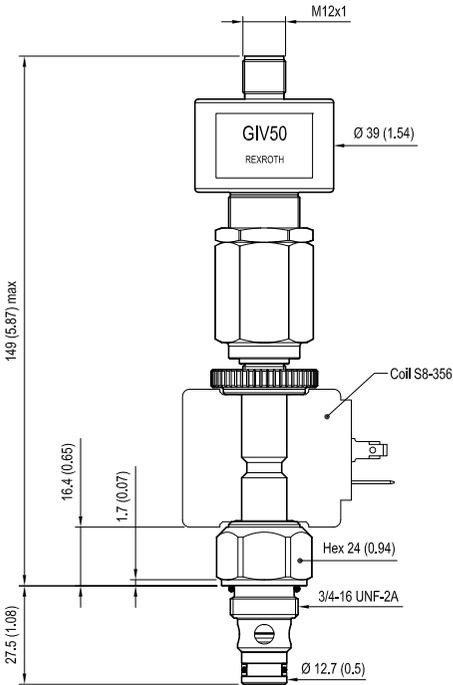
Electrical

Type of voltage		DC voltage
Coil type		S8-356
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle	%	100 see RE 18325-90
Type of protection		See data sheet RE 18325-90

Please consider that a proper function of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

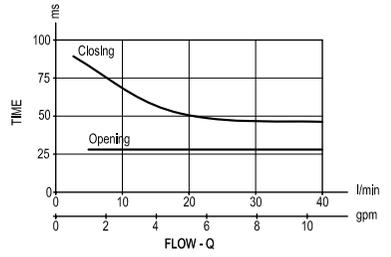
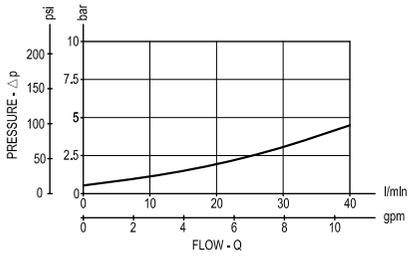
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor

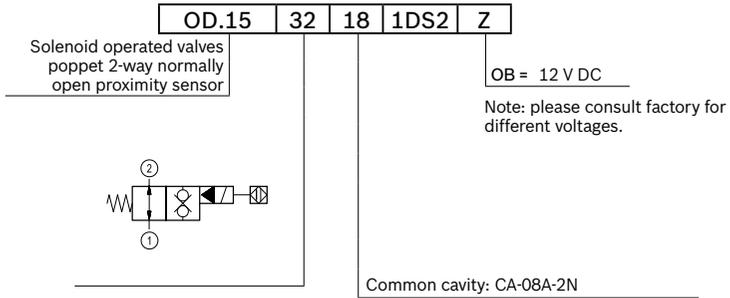


[mm (Inches)]

Performance graphs



Ordering code



Type	Material number
OD1532181DS2OB	R934004542

Type	Material number

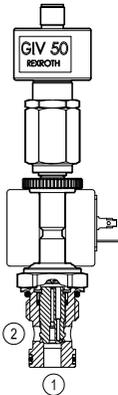
Solenoid operated valves pilot operated poppet 2-way normally open double lock proximity sensor

Special cavity, 017-E

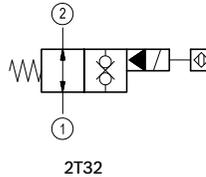


VEI-8A-2T-09-NA-S-M-NSS

OD.15.32.17.1D.S2 - Z



Version 32



2T32

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-70 (0.66-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	50-55 (37-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit	code material no.	RG17E201053010 R934003563
Other technical data		See data sheet RE 18350-50

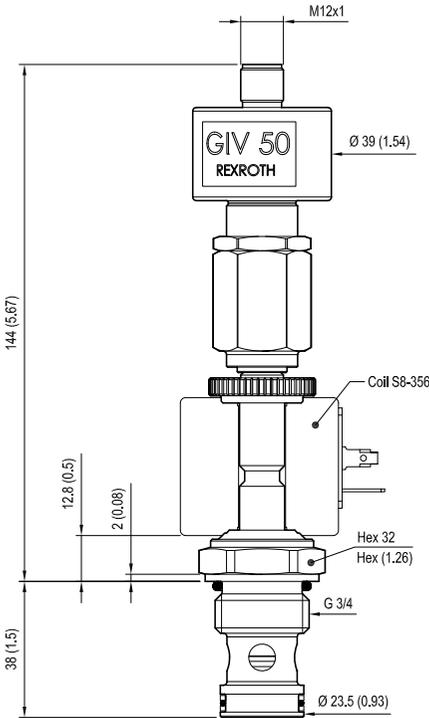
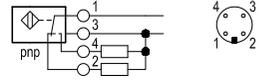
Electrical

Type of voltage		DC voltage
Coil type		S8-356
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	20
Duty cycle	%	100 see RE 18325-90
Type of protection		See data sheet RE 18325-90

Please consider that a proper function of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

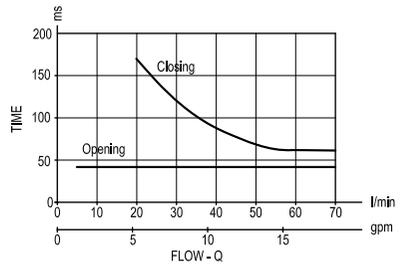
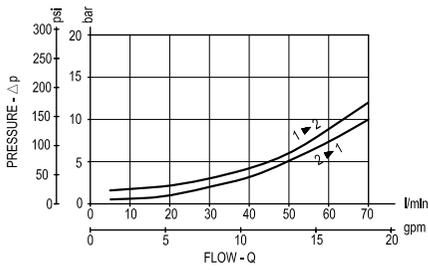
Dimensions

Solenoid operated valves poppet 2-way normally open double lock proximity sensor

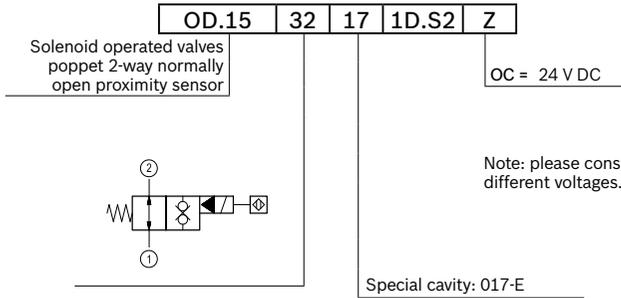


[mm (Inches)]

Performance graphs



Ordering code



Type	Material number	Type	Material number
OD1532171DS2OC	R934001235		

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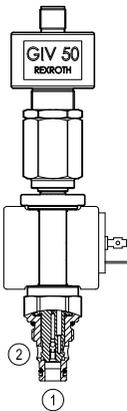
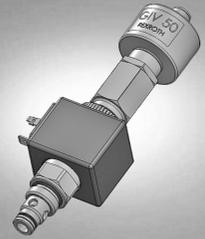
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Subject to change.

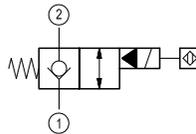
Solenoid operated valves pilot operated
poppet 2-way normally closed
proximity sensor
Common cavity, Size 08

VESP-08A-12A/00-2A05-N7

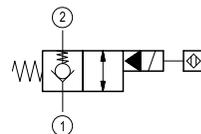
OD.15.05.18.41 - Y - Z



Version 05



Version 85



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Proof pressure	bar (psi)	420 (6000)
Flow range	l/min.(gpm)	1-40 (0.3-11)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 30-35 (22-26)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit code RG08A201052010 material no. R901101437

Other technical data See data sheet RE 18350-50

(*) (cSt 46)

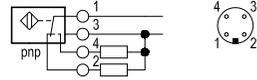
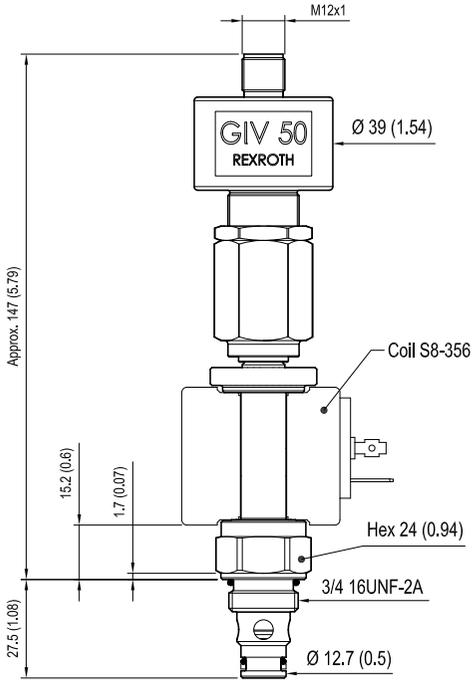
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Please consider that a proper function of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

Dimensions

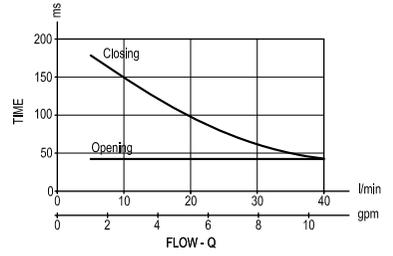
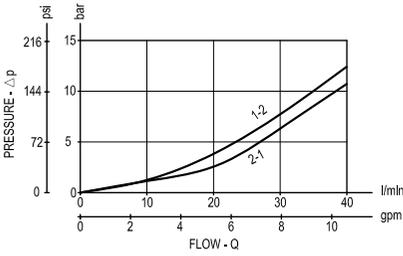
Solenoid operated valves poppet 2-way normally closed proximity sensor



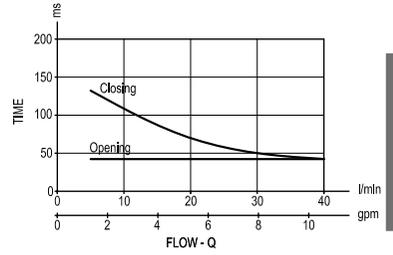
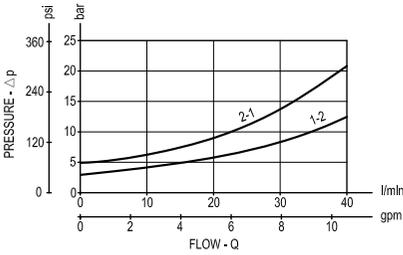
mm (Inches)

Performance graphs

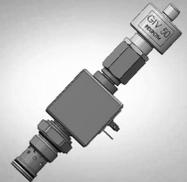
Version 05



Version 85

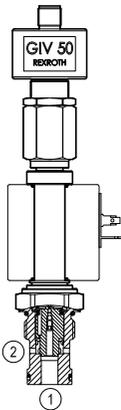


Solenoid operated valves pilot operated
poppet 2-way normally closed
proximity sensor - extra spring
Special cavity, 017-E

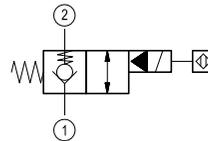


VESP-12G-16A/00-2A05-N7

OD.15.05.17.65.04 - Z



Version 05



4

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

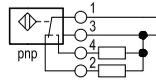
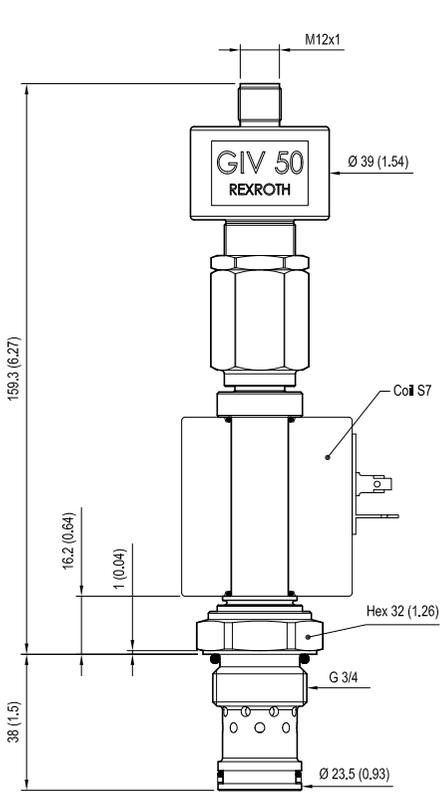
Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	5-70 (1-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	50-55 (37-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit	code	RG17E201052010
	material no.	R934003562
Other technical data		See data sheet RE 18350-50

Electrical

Type of voltage		DC voltage
Coil type		S7
Supply voltage		See data sheet RE18325-90
Nominal voltage		± 10%
Power consumption	W	30
Duty cycle	%	100 see RE 18325-90
Type of protection		See data sheet RE 18325-90

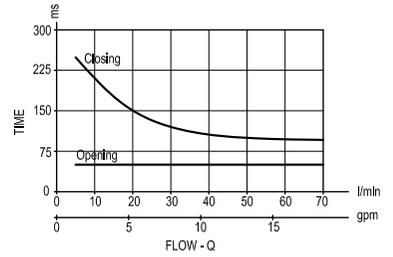
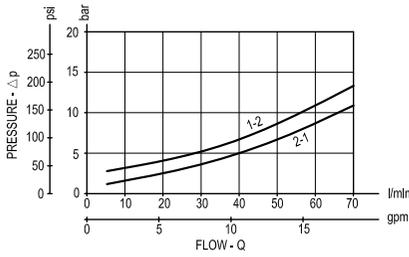
Dimensions

Solenoid operated valves poppet 2-way normally closed proximity sensor



mm (Inches)

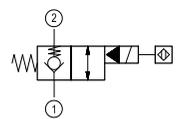
Performance graphs



Ordering code

	OD.15	05	17	6504	Z
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Solenoid operated valves
poppet 2-way normally closed
proximity sensor - extra spring



OB = 12 V DC _____

OC = 24 V DC _____

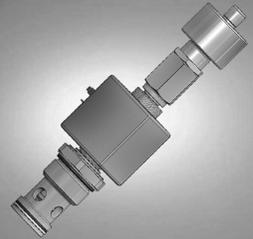
Note: please consult factory for different voltages.

Special cavity: 017-E _____

Type	Material number
OD1505176504OB	R934004675
OD1505176504OC	R934004674

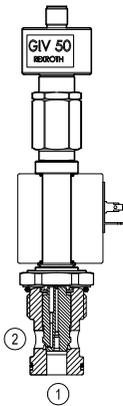
Type	Material number

Solenoid operated valves pilot operated
poppet 2-way normally closed
proximity sensor
Special cavity, 021-E

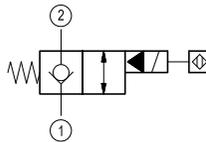


VESP-16G-16A/00-2A-N7

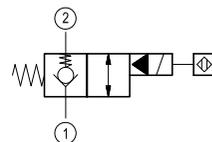
OD.15.05.21.65 - Y - Z



Version 04



Version 84



General

Weight	kg (lbs)	0.9 (2)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	5-150 (1-40)
Max. internal leakage (*)	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)	
Installation torque	Nm (ft-lbs)	80-85 (59-63)
Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Cavity	021-E see RE 18325-75	
Seal kit	code	RG21E201052010
	material no.	R934003566
Other technical data	See data sheet RE 18350-50	

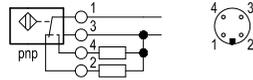
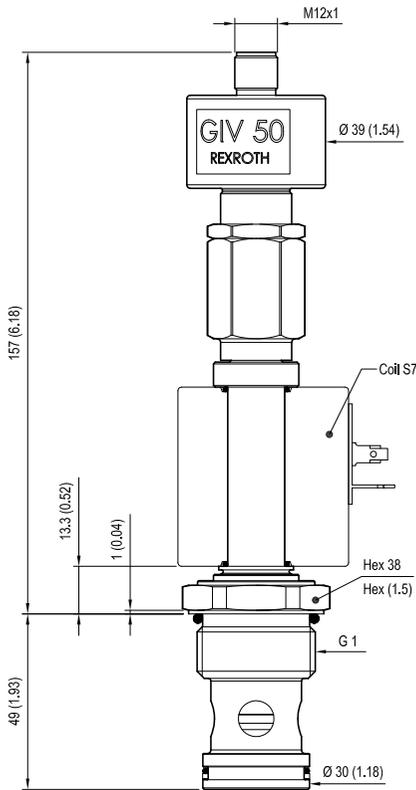
(*) (cSt 46)

Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 30
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Dimensions

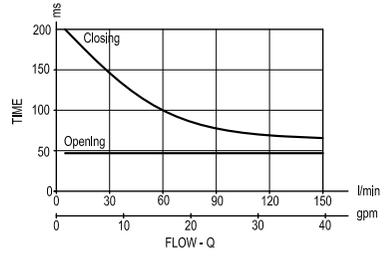
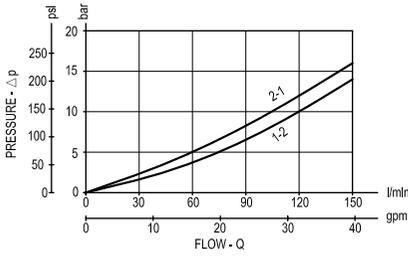
Solenoid operated valves poppet 2-way normally closed proximity sensor



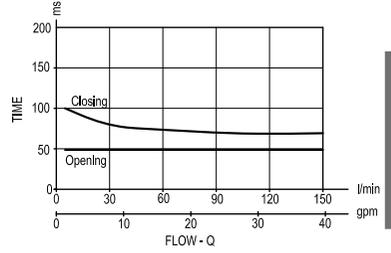
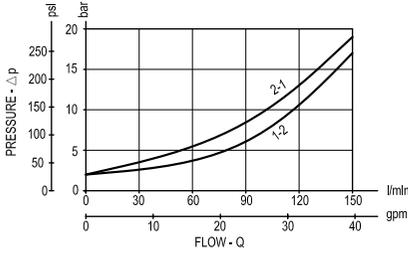
mm (Inches)

Performance graphs

Version 04



Version 84



Ordering code

OD.15	05	21	65	Y	Z
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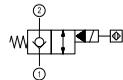
Solenoid operated valves
poppet 2-way normally closed
proximity sensor

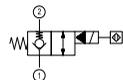
Special cavity: 021-E

OB = 12 V DC for Y= 84

OC = 24 V DC for Y= 04 or 84

Note: please consult factory for different voltages.

04 = 

84 = 

Type	Material number
OD1505216504OC	R934004627
OD1505216584OB	R934004630
OD1505216584OC	R934004628

Type	Material number

Solenoid Cartridge Valves

On-off direct acting

Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves direct acting 2 way poppet type normally closed	VED-8I-NC	Size 08	OD11X18Y00	RE 18324-06	783
Solenoid cartridge valves direct acting 2 way poppet type normally open	VED-8I-NA	Size 08	OD11X18Y00	RE 18324-07	787
Solenoid cartridge valves direct acting 2 way poppet type normally closed double lock	VEDT-08A-A-12-NC	Size 08	OD113118Y00	RE 18324-01	791
Solenoid cartridge valves direct acting 2 way poppet type normally closed double lock	VEDT-08A-A-16-NC	Size 08	OD1131186Y00	RE 18324-03	795
Solenoid cartridge valves direct acting 2 way poppet type double lock	VEDT-08F-A-16	Special	OD11X40Y00	RE 18324-04	799
Solenoid cartridge valves direct acting poppet 3 way 2 position	VEDT-08A-32	Size 08	OD130151Y00	RE 18324-05	803
Solenoid cartridge valves direct acting 3 way 2 position spool type	VEDS-08A-32	Size 08	OD13X51Y00	RE 18324-50	807
Solenoid cartridge valves direct acting 4 way 2 position spool type	VEDS-08A-42	Size 08	OD14X58Y00	RE 18324-51	811
Solenoid cartridge valves direct acting 4 way 3 position spool type	VEDS-08A-43	Size 08	OD14X582A00	RE 18324-52	815
Solenoid cartridge valves direct acting 3 way 2 position spool type	VED-10A-32	Size 10	OD13X77Y00	RE 18324-58	819
Solenoid cartridge valves direct acting 4 way 2 position spool type	VED-10A-42	Size 10	OD144W78Y00	RE 18324-59	823
Solenoid cartridge valves direct acting 4 way 3 position spool type	VED-10A-43	Size 10	OD143W78Y00	RE 18324-60	827

For the latest product information from Bosch Rexroth, please visit our website:

www.boschrexroth.com/products

Solenoid Cartridge Valves

On-off direct acting

Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves direct acting 3 way 2 position spool type	VEDS-12A-32	Size 12	OD13X12Y00	RE 18324-56	831

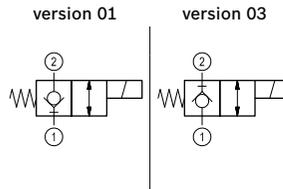
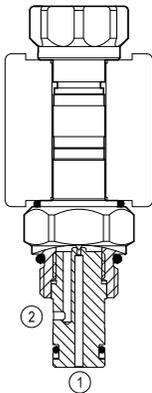
Solenoid operated valves direct acting poppet 2-way normally closed

Common cavity, Size 08



VED-8I-NC

OD.11 - X - 18 - Y - 00



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Rated flow	l/min. (gpm)	1.5 (0.4)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A2010520100 R901101437
Seal kit coil	code material no.	RG1211PNBR7010 R934003957
Other technical data		See data sheet RE 18350-50

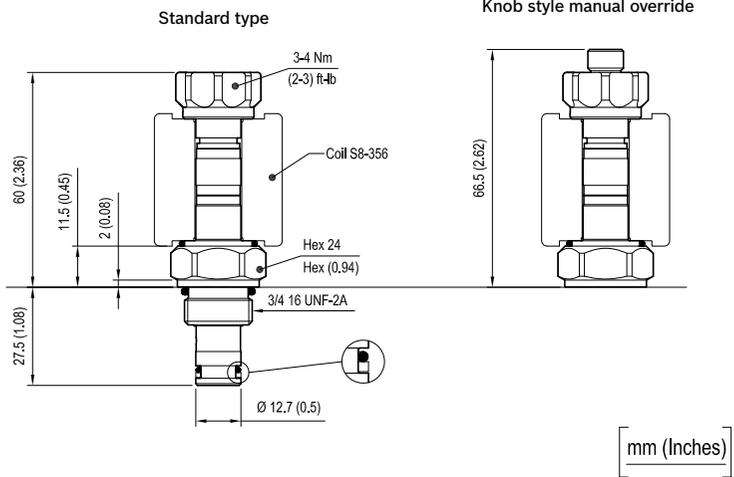
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

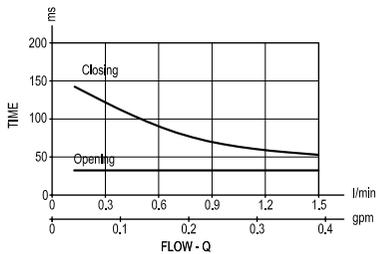
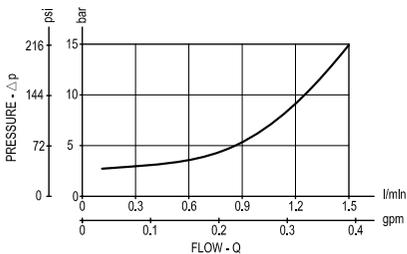
Dimensions

Solenoid operated valves poppet 2-way normally closed

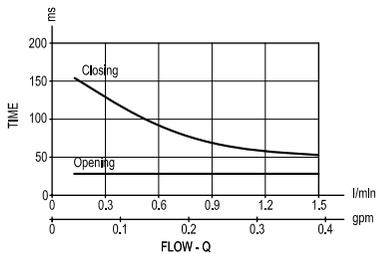
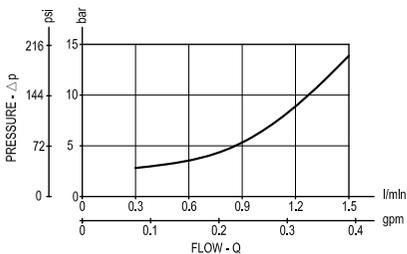


Performance graph

Version 01



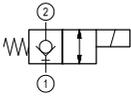
Version 03



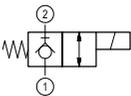
Ordering code

OD.11	*	18	*	00
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Solenoid operated valves
poppet 2-way normally
closed



= 01



= 03

standard type



31 =

Knob style manual override



32 =

Common cavity: CA-08A-2N

Type	Material number	Type	Material number
OD110118310000	R901090901		
OD110118320000	R901090903		
OD110318310000	R901090909		
OD110318320000	R901090910		

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www.boschrexroth.com

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Subject to change.

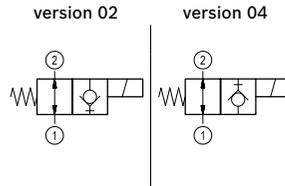
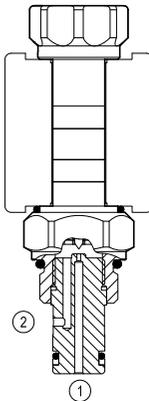
Solenoid operated valves direct acting poppet 2-way normally open

Common cavity, Size 08



VED-8I-NA

OD.11 - X - 18 - Y - 00



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Rated flow	l/min. (gpm)	1.5 (0.4)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)

Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
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Common cavity		CA-08A-2N see RE 18325-70
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Seal kit	code	RG08A2010520100
	material no.	R901101437

Seal kit coil	code	RG1211PNBR7010
	material no.	R934003957

Other technical data		See data sheet RE 18350-50
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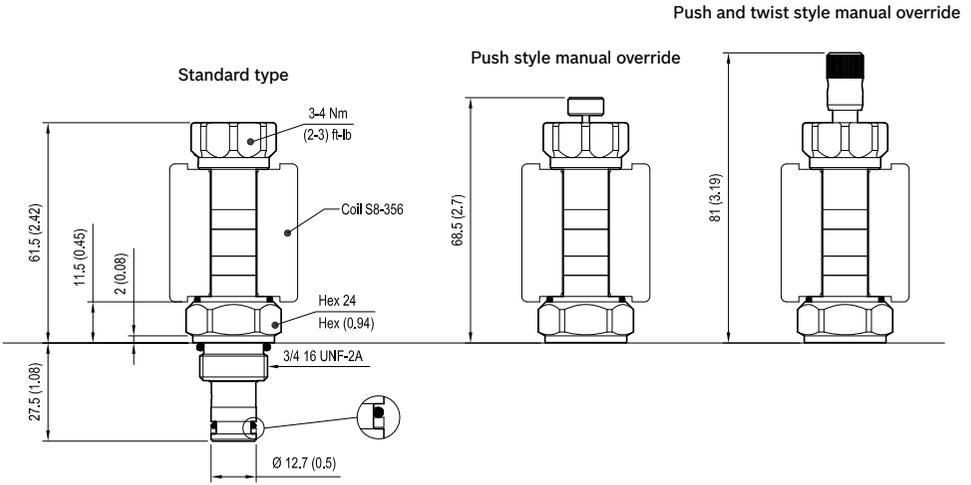
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

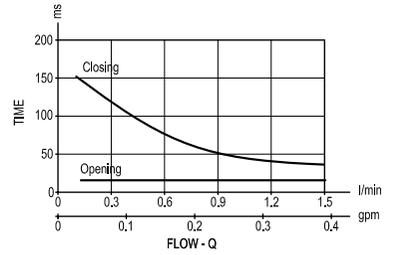
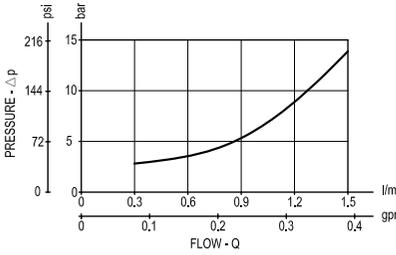
Solenoid operated valves poppet 2-way normally open



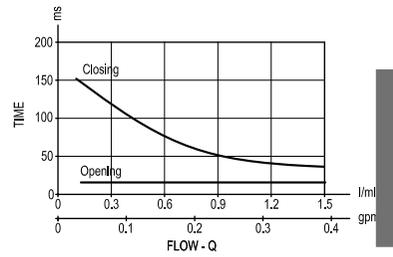
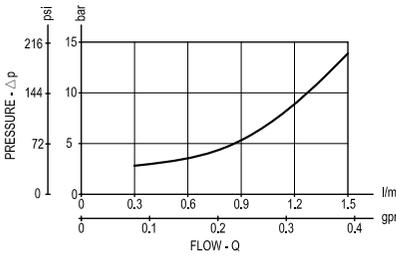
[mm (Inches)]

Performance graphs

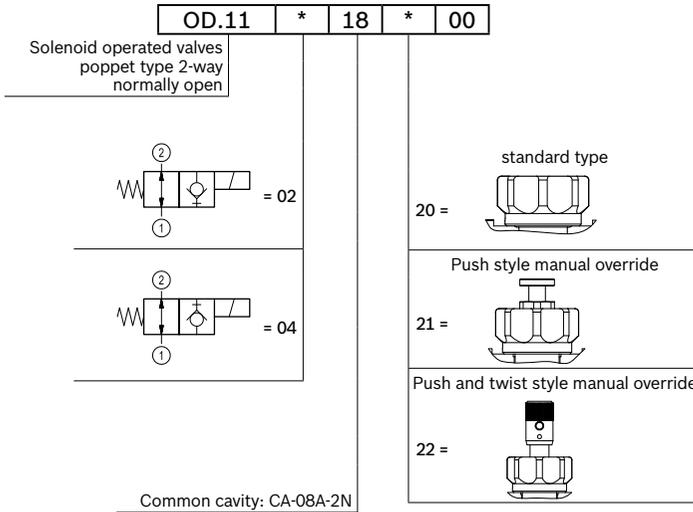
Version 02



Version 04



Ordering code



Type	Material number
OD11021820000	R901090905
OD11021821000	R901090906
OD11021822000	R901090908
OD11041820000	R901090911
OD11041821000	R901090914
OD11041822000	R901090915

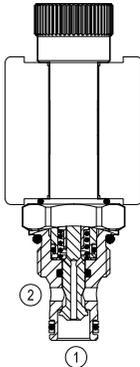
Type	Material number

Solenoid operated valves direct acting
poppet 2-way double lock
normally closed
Common cavity, Size 08

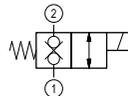


VEDT-08A-A-12.7-NC

OD.11.31.18 - Y - 00



Version 31



General

Weight	kg (lbs)	0.19 (0.42)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min.(gpm)	15 (4)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 34-41 (25-30)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit code material no. RG08A2010530100 R901101544

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20

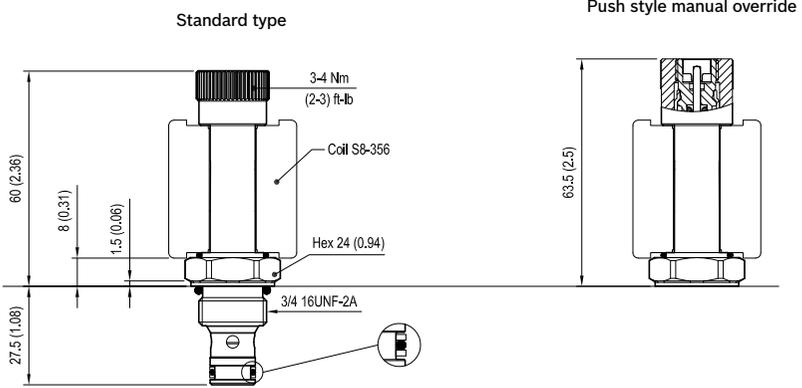
Duty cycle coil % See performance graphs

Type of protection See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

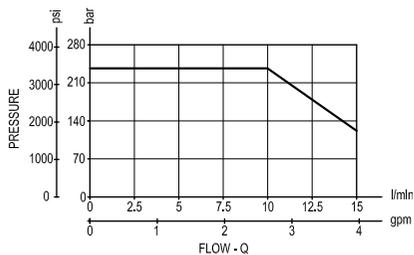
Solenoid operated valves poppet 2-way double lock normally closed



mm (Inches)

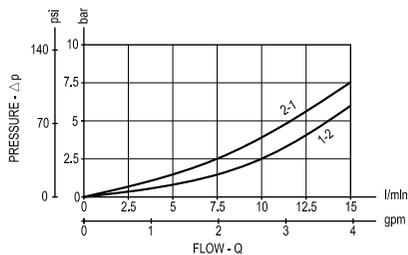
Performance graphs

Performance limits



version 31

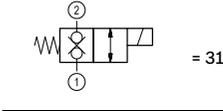
Characteristic curves



Ordering code

OD.11	*	18	*	00
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Solenoid operated valves
poppet 2-way double lock
normally closed



Common cavity: CA-08A-2N

standard type

2A =



Push style manual override

2B =



Type	Material number
OD1131182A0000	R934003626
OD1131182B0000	R934003627

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Subject to change.

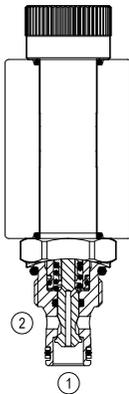
Solenoid operated valves direct acting poppet 2-way double lock normally closed

Common cavity, Size 08

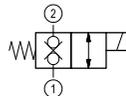


VEDT-08A-A-16-NC

OD.11.31.18 - 6Y - 00



Version 31



General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W -30 to 80 (-22 to 176) - coil 26W

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min. (gpm)	25 (7)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

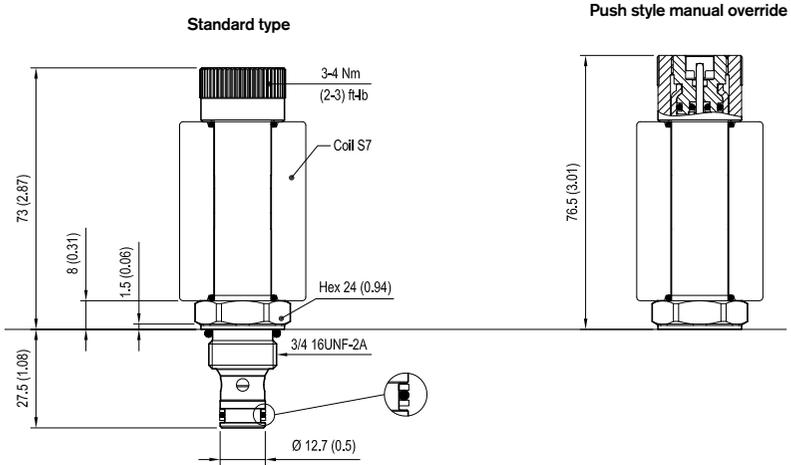
Electrical

Type of voltage		DC voltage
Coil type		S7
Supply voltage		See data sheet RE 18325-90
Power consumption	W	30 or 26
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90
Nominal voltage	coil 26W	-15% +10%
Nominal voltage	coil 30W	-10% +10%

Note: Coils must be ordered separately.

Dimensions

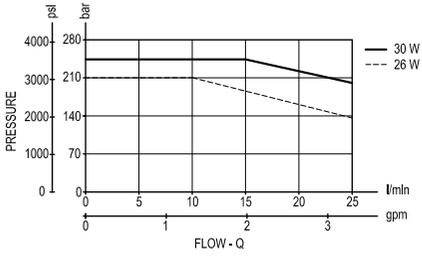
Solenoid operated valves poppet 2-way double lock normally closed



[mm (Inches)]

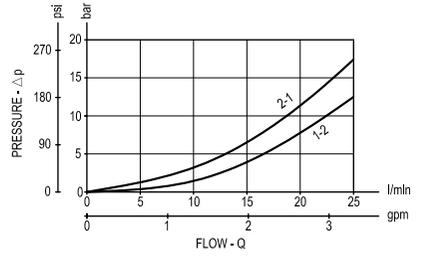
Performance graphs

Performance limits



version 31

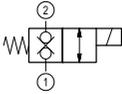
Characteristic curves



Ordering code

OD.11	*	18	*	00
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Solenoid operated valves
poppet 2-way double lock
normally closed



= 31

Common cavity: CA-08A-2N

standard type

6A =



Push style manual override

6B =



Type	Material number
OD1131186A0000	R934003624
OD1131186B0000	R934003625

Type	Material number

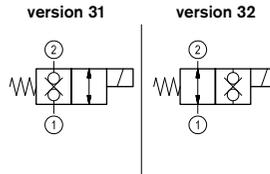
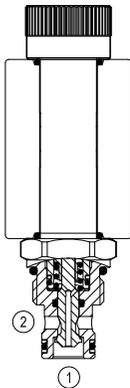
Solenoid operated valves direct acting poppet 2-way double lock

Special cavity, CA-08F-2N



VEDT-08F-A-16

OD.11 - X - 40 - Y - 00



General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W -30 to 80 (-22 to 176) - coil 26W

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min. (gpm)	25 (7)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Special cavity		CA-08F-2N
Seal kit	code material no.	RG40E201053010 R934003587
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

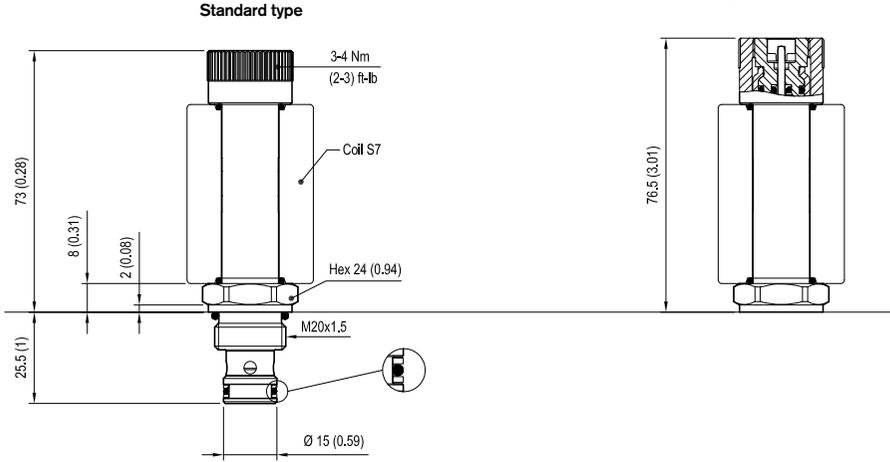
Electrical

Type of voltage		DC voltage
Coil type		S7
Supply voltage		See data sheet RE 18325-90
Power consumption	W	30 or 26
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90
Nominal voltage	coil 26W	-15% +10%
Nominal voltage	coil 30W	-10% +10%

Note: Coils must be ordered separately.

Dimensions

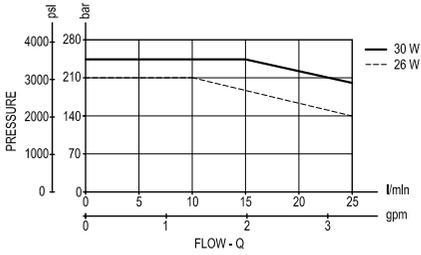
Solenoid operated valves poppet 2-way double lock - Special cavity



mm (Inches)

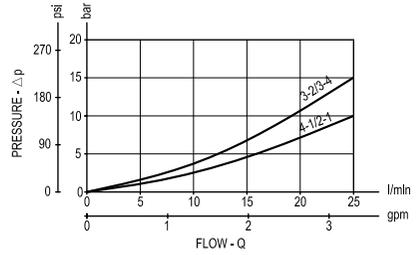
Performance graphs

Performance limits

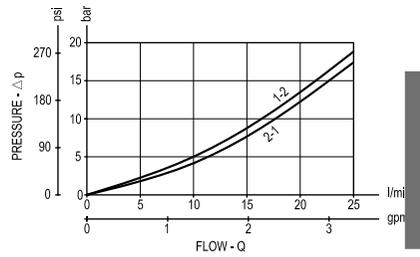
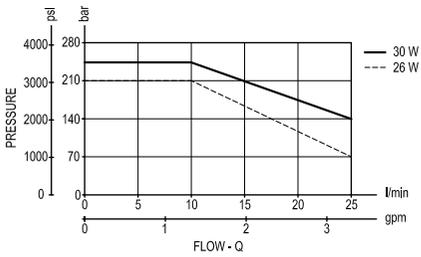


version 31 (NC)

Characteristic curves



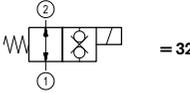
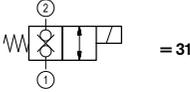
version 32 (NA)



Ordering code

OD.11	*	40	*	00
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Solenoid operated valves poppet
2-way double lock normally
closed and normally open



standard type

6A =



Push style manual override

6B =



Special cavity: CA-08F-2N

Type	Material number
OD1131406A0000	R934003630
OD1131406B0000	R934003631
OD1132406A0000	R934003628
OD1132406B0000	R934003629

Type	Material number

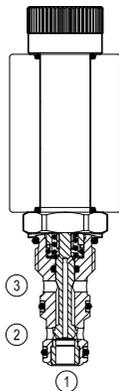
Solenoid operated valves direct acting poppet 3-way 2-position

Common cavity, Size 08

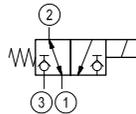


VEDT-08A-32

OD.13.01.51 - Y - 00



Version 01



4

General

Weight	kg (lbs)	0.24 (0.53)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W -30 to 80 (-22 to 176) - coil 26W

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min. (gpm)	15 (4)
Max. internal leakage (*)	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-3N see RE 18325-70
Seal kit	code material no.	RG08A3010530100 R901101723
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

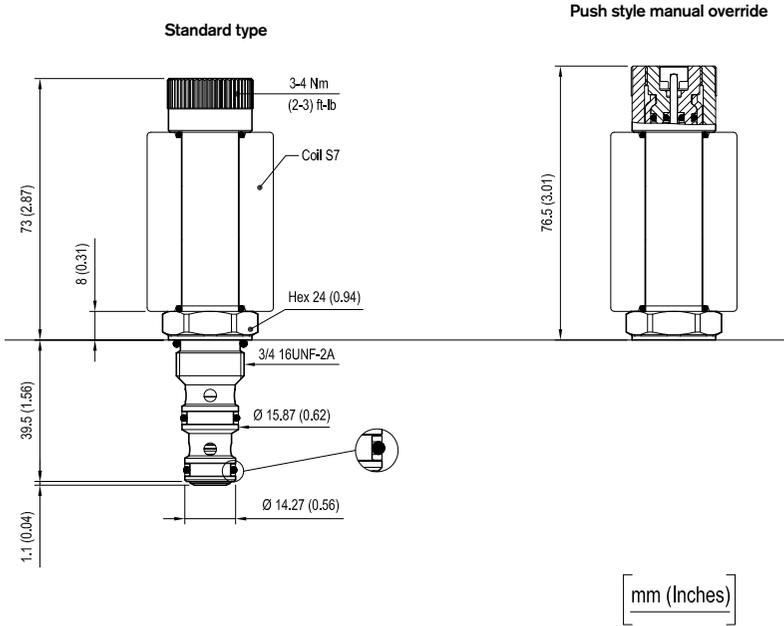
Electrical

Type of voltage		DC voltage
Coil type		S7
Supply voltage		See data sheet RE 18325-90
Power consumption	W	30 or 26
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90
Nominal voltage	coil 26W	-10% +15%
Nominal voltage	coil 30W	-10% +10%

Note: Coils must be ordered separately.

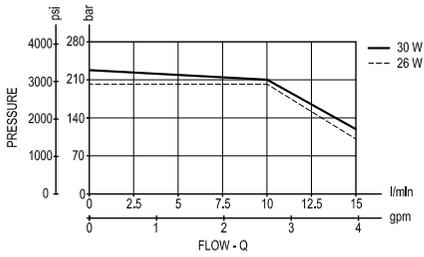
Dimensions

Solenoid operated valves poppet 3-way 2-position



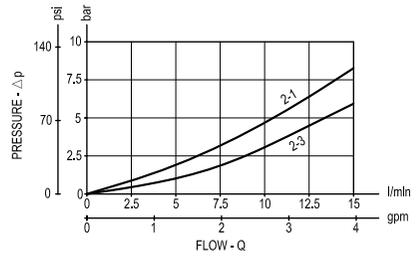
Performance graphs

Performance limits



version 01

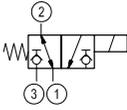
Characteristic curves



Ordering code

OD.13	01	51	*	00
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Solenoid operated valves
poppet 3-way 2-position



Common cavity: CA-08A-3N

standard type

6A =



Push style manual override

6B =



Type	Material number
OD1301516A0000	R934003666
OD1301516B0000	R934003667

Type	Material number

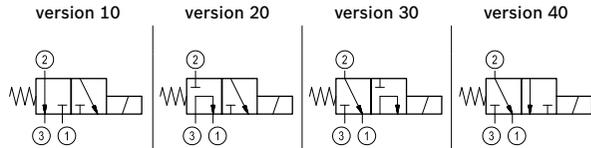
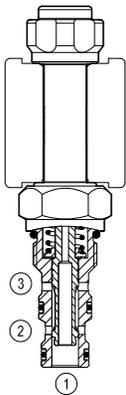
Solenoid operated valves direct acting spool 3-way 2-position

Common cavity, Size 08



VEDS-08A-32

OD.13 - X - 51 - Y - 00



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 20W -30 to 80 (-22 to 176) - coil 17W

Hydraulic

Max. operating pressure port 2-3	bar (psi)	315 (4568)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min. (gpm)	20 (5)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	90 (5.5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 34-41 (25-30)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-3N see RE 18325-70

Seal kit code RG08A301053010 material no. R901101723

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

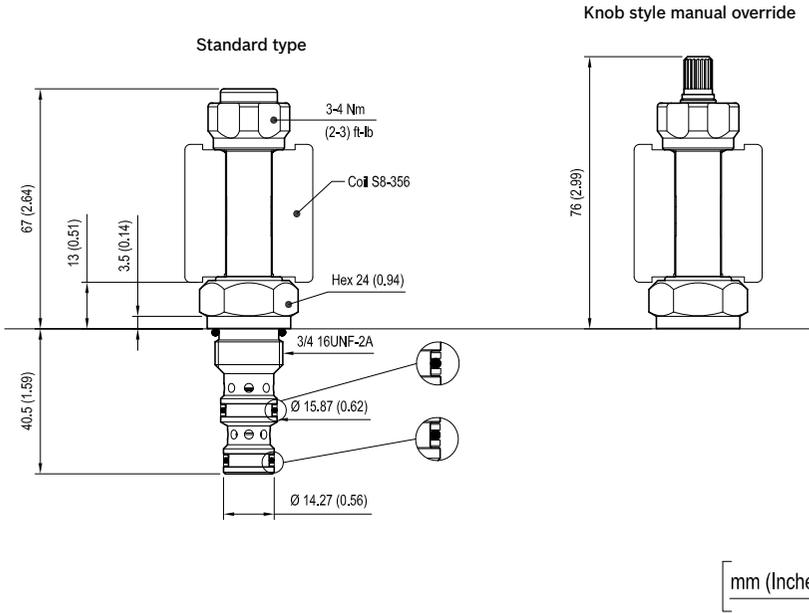
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Power consumption	W 20 or 17
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 20W	-15% +10%
Nominal voltage coil 17W	-15% +15%

Note: Coils must be ordered separately.

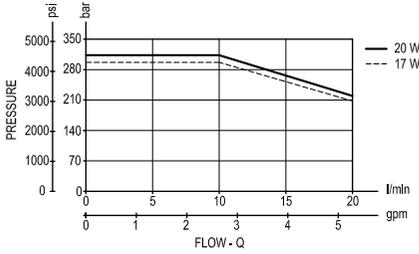
Dimensions

Solenoid operated valve, spool 3-way 2-position



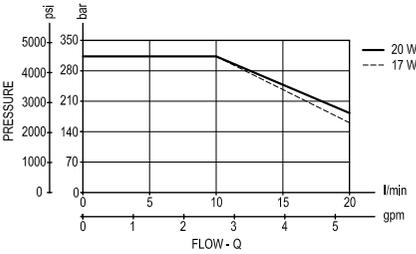
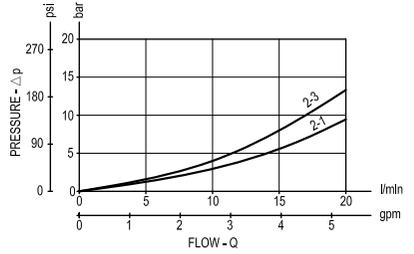
Performance graph

Performance limits

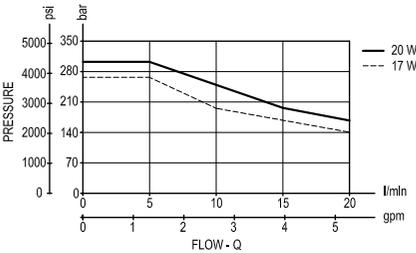
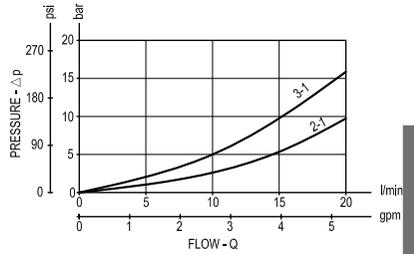


Version 10

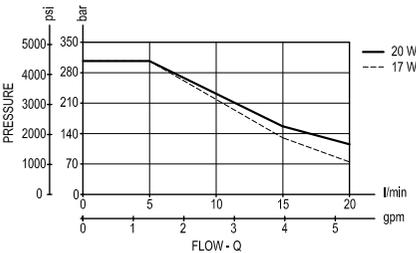
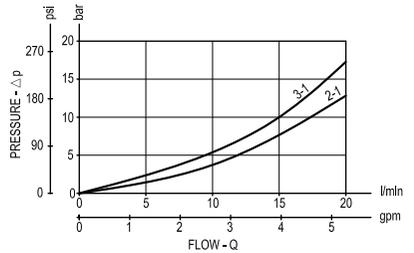
Characteristic curves



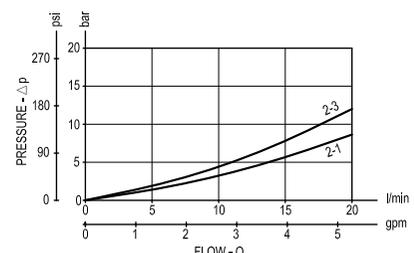
Version 20



Version 30



Version 40

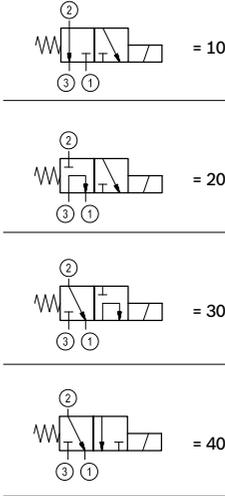


4

Ordering code

OD.13	*	51	*	00
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Solenoid operated valves
spool 3-way 2-position



standard type

1A =



knob style manual override

1B =



Common cavity: CA-08A-3N

Type	Material number
OD1310511A0000	R934003541
OD1320511A0000	R934003542
OD1330511A0000	R934003543
OD1340511A0000	R934003544
OD1310511B0000	R934003545
OD1320511B0000	R934003546
OD1330511B0000	R934003547
OD1340511B0000	R934003548

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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Subject to change.

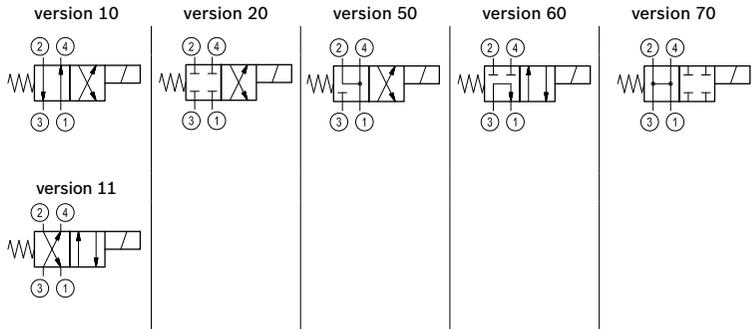
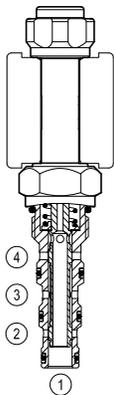
Solenoid operated valves direct acting spool 4-way 2-position

Common cavity, Size 08



VEDS-08A-42

OD.14 - X - 58 - Y - 00



General

Weight	kg (lbs)	0.14 (0.31)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 20W -30 to 80 (-22 to 176) - coil 17W

Hydraulic

Max. operating pressure port 2-3-4	bar (psi)	315 (4568)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min. (gpm)	1.6 (4)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	90 (5.5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-4N see RE 18325-70
Seal kit	code material no.	RG08A4010530100 R930005582
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

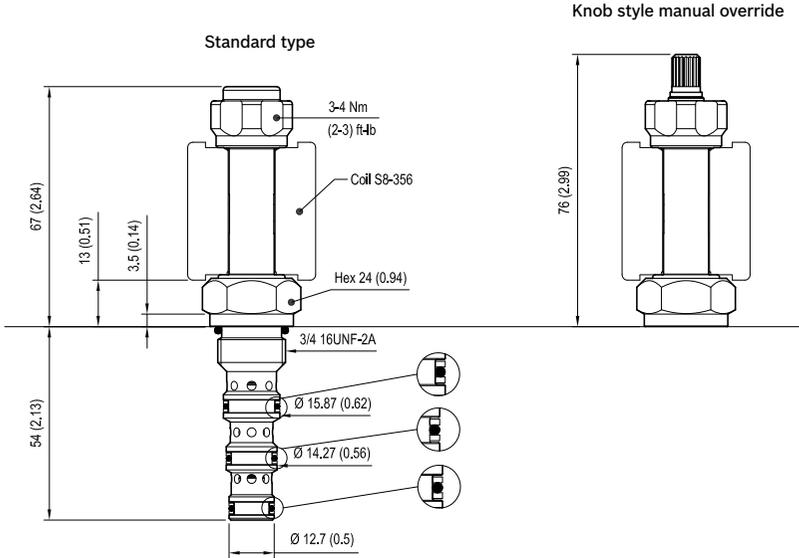
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Power consumption	W 20 or 17
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 20W	-15% +10%
Nominal voltage coil 17W	-15% +15%

Note: Coils must be ordered separately.

Dimensions

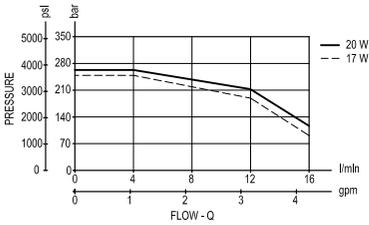
Solenoid operated valve, spool 4-way 2-position



mm (Inches)

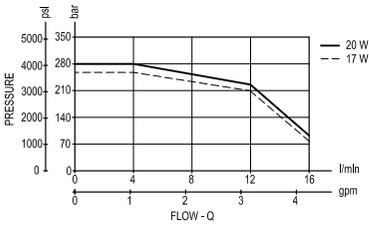
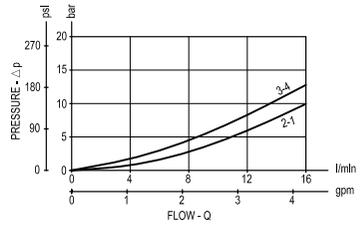
Performance graph

Performance limits

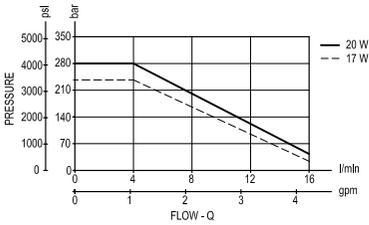
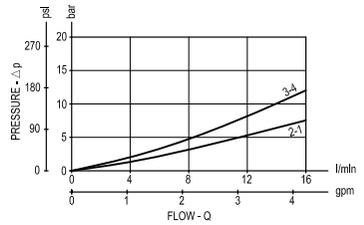


version 10

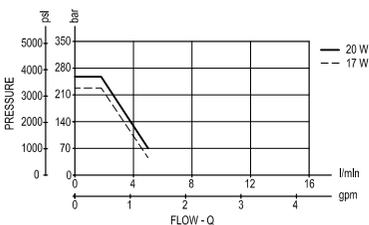
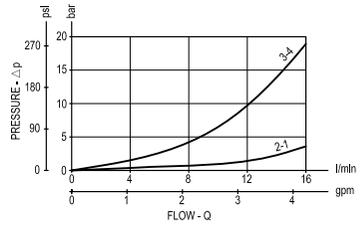
Characteristic curves



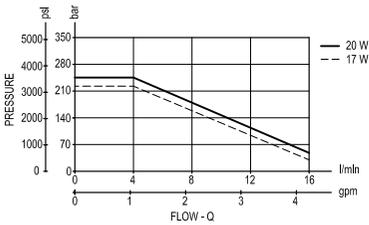
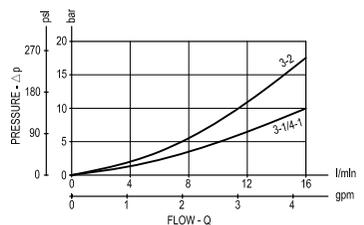
version 20



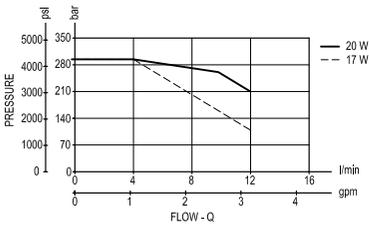
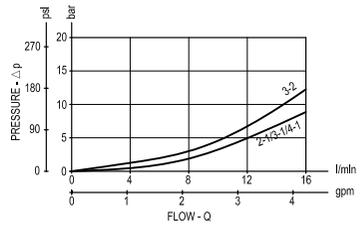
version 50



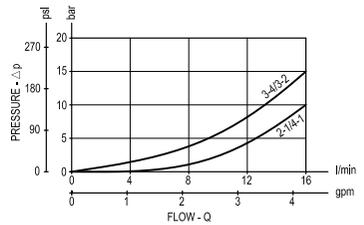
version 60



version 70



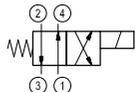
version 11



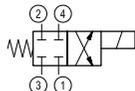
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Ordering code

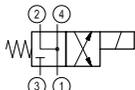
OD.14	*	58	*	00
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Solenoid operated valves
spool 4-way 2 position

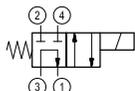
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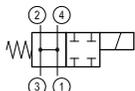
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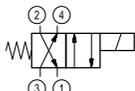
= 50



= 60



= 70



= 11

standard type

1A =



knob style manual override

1B =



Common cavity: CA-08A-4N

Type	Material number
OD1410581A0000	R934003530
OD1420581A0000	R934003531
OD1450581A0000	R934003532
OD1460581A0000	R934003533
OD1470581A0000	R934003534
OD1410581B0000	R934003535
OD1420581B0000	R934003536
OD1450581B0000	R934003537
OD1460581B0000	R934003538

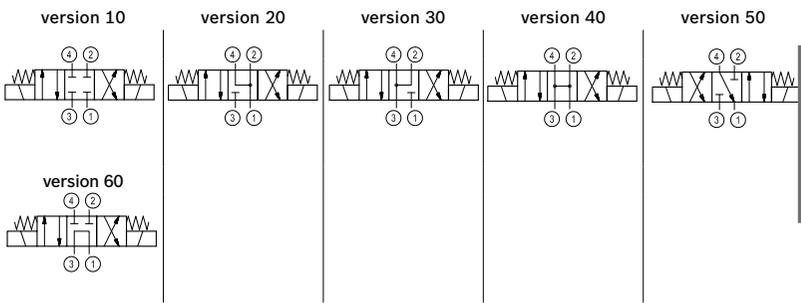
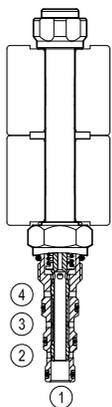
Type	Material number
OD1470581B0000	R934003539
OD1411581A0000	R934003638

Solenoid operated valves direct acting spool 4-way 3-position

Common cavity, Size 08

VEDS-08A-43

OD.14 - X - 58.2A.00



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 20W -30 to 80 (-22 to 176) - coil 17W

Hydraulic

Max. operating pressure port 2-3-4	bar (psi)	315 (4568) (see performance graph)
Max. operating pressure port 1	bar (psi)	140 (2000)
Flow range	l/min. (gpm)	20 (5)
Max. internal leakage (*)	cm ³ /min. (cu.in/min.)	90 (5.5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

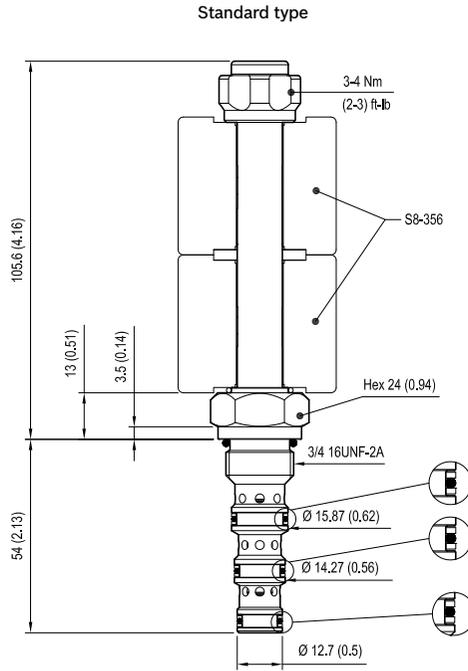
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-4N see RE 18325-70
Seal kit	code material no.	RG08A4010530100 R930005582
Seal kit coil	code material no.	RG12A2PNBR7010 R934003960
Other technical data		See data sheet RE 18350-50
(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)		

Electrical

Type of voltage		DC voltage
Coil type		S8-356
Supply voltage		See data sheet RE 18325-90
Power consumption	W	20 or 17
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90
Nominal voltage	coil 20W	-15% +10%
Nominal voltage	coil 17W	-15% +15%
Note: Coils must be ordered separately.		

Dimensions

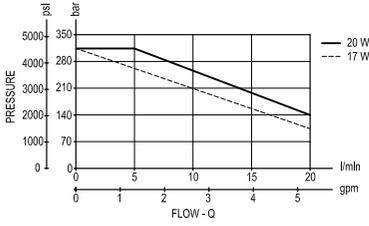
Solenoid operated valve, spool 4-way 3-position



[mm (Inches)]

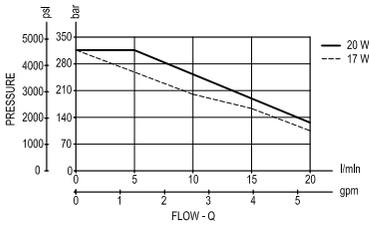
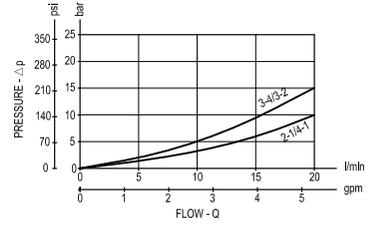
Performance graphs

Performance limits

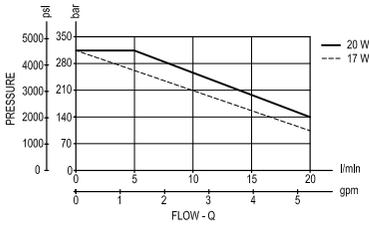
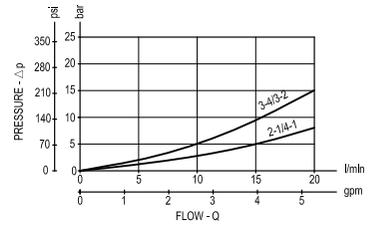


version 10

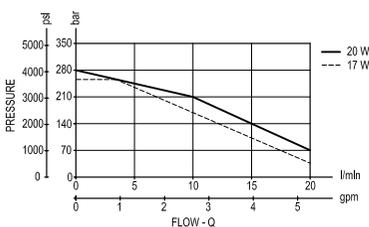
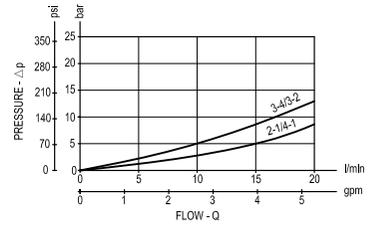
Characteristic curves



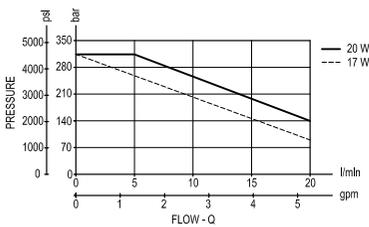
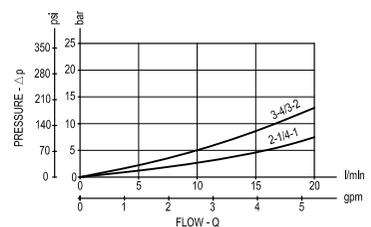
version 20



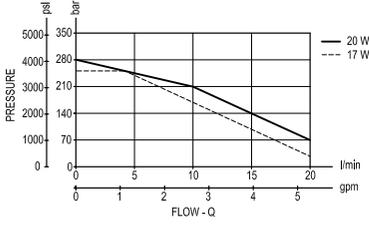
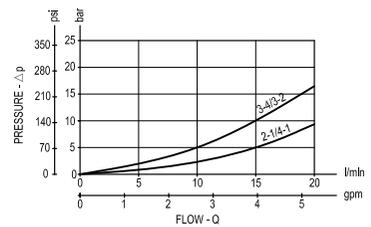
version 30



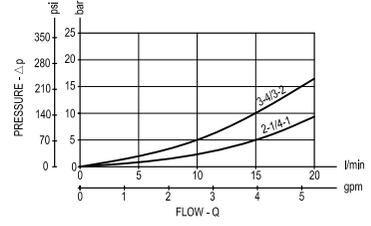
version 40



version 50



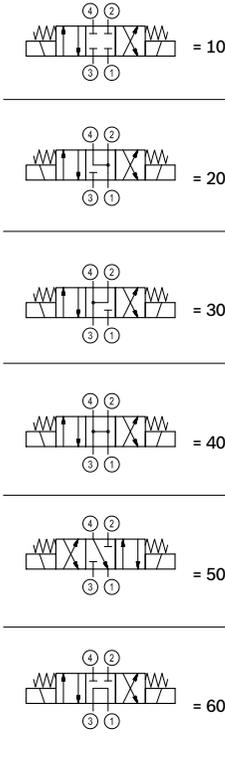
version 60



Ordering code

OD.14	*	58	2A	00
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Solenoid operated valves
spool 4-way 3 position



standard type



Common cavity: CA-08A-4N

Type	Material number	Type	Material number
OD1410582A0000	R934003504		
OD1420582A0000	R934003505		
OD1430582A0000	R934003506		
OD1440582A0000	R934003509		
OD1450582A0000	R934003507		
OD1460582A0000	R934003508		

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Subject to change.

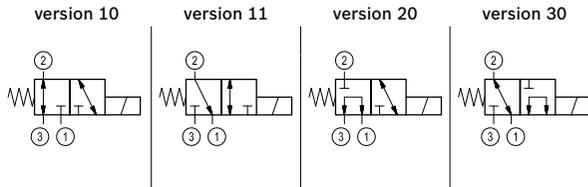
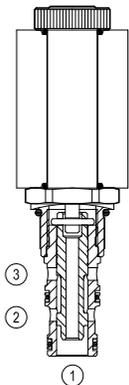
Solenoid operated valves direct acting spool 3-way 2-position

Common cavity, Size 10



VED-10A-32

OD.13 - X - 77 - Y - 00



General

Weight	kg (lbs)	0.22 (0.49)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W

Hydraulic

Max. operating pressure port 2-3	bar (psi)	280 (4000)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min. (gpm)	20 (6)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	80 (5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Seal kit	code material no.	RG10A3010530100 R930000990
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

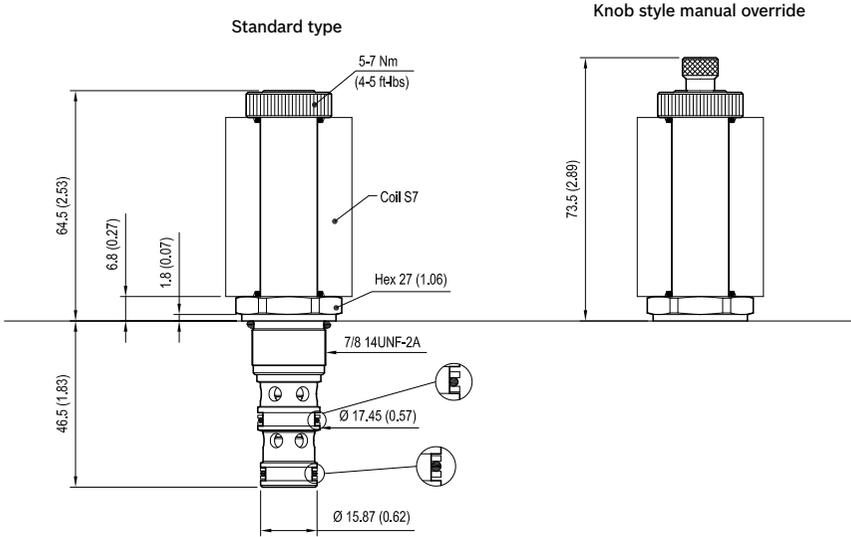
Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W/30
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 30W	-10% + 10%

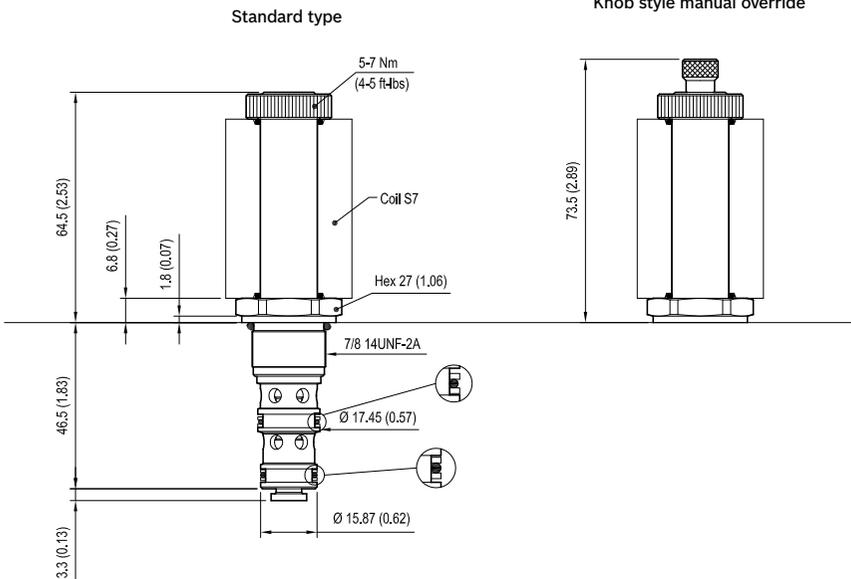
Note: Coils must be ordered separately.

Dimensions

Solenoid operated valve, spool 3-way 2-position



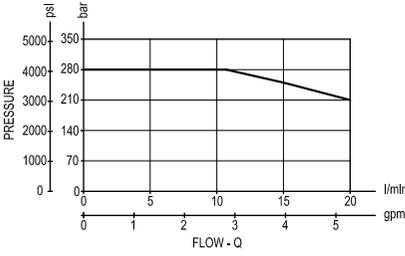
(only version 11)



mm (Inches)

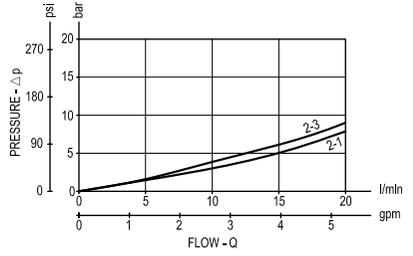
Performance graphs

Performance limits
(Hot coil at nominal voltage)

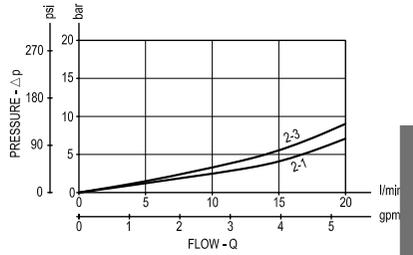
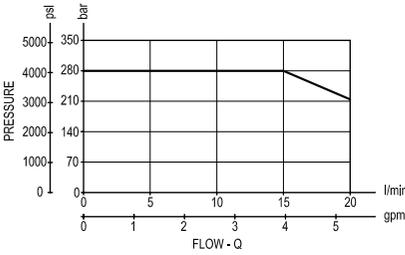


Version 10

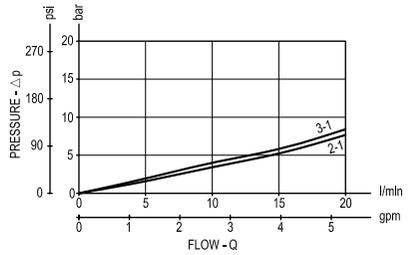
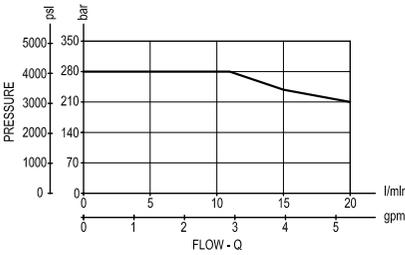
Characteristic curves



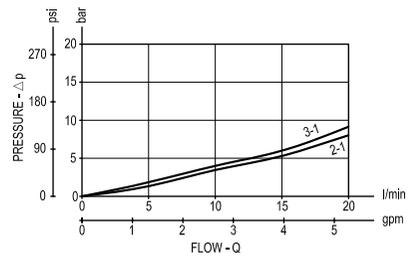
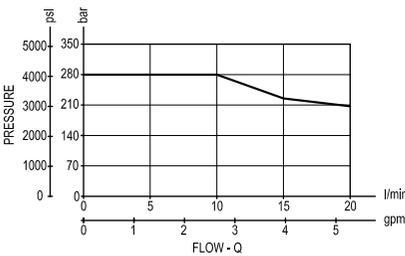
Version 11



Version 20

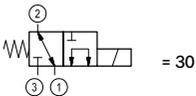
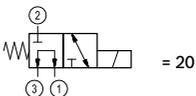
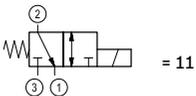
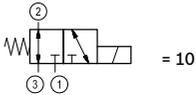


Version 30



Ordering code

OD.13	*	77	*	00
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Solenoid operated valves
spool 4-way 2 position

standard type

70 =



Knob style manual override

71 =



Common cavity: CA-10A-3N

Type	Material number	Type	Material number
OD13107770000	R901113689		
OD13107771000	R901113687		
OD13117770000	R901125116		
OD13117771000	R901126890		
OD13207770000	R901113690		
OD13207771000	R901113692		
OD13307770000	R901115704		
OD13307771000	R901126898		

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Subject to change.

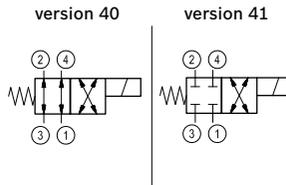
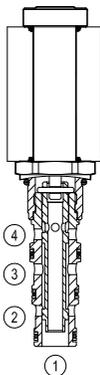
Solenoid operated valves direct acting spool 4-way 2-position

Common cavity, Size 10



VED-10A-42

OD.14 - 4W - 78 - Y - 00



General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W

Hydraulic

Max. operating pressure port 2-3-4	bar (psi)	280 (4000)
Max. operating pressure port 1		210 (3000)
Max. flow	l/min. (gpm)	20 (6)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	80 (5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-4N see RE 18325-70
Seal kit	code material no.	RG10A4010530100 R901111373
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

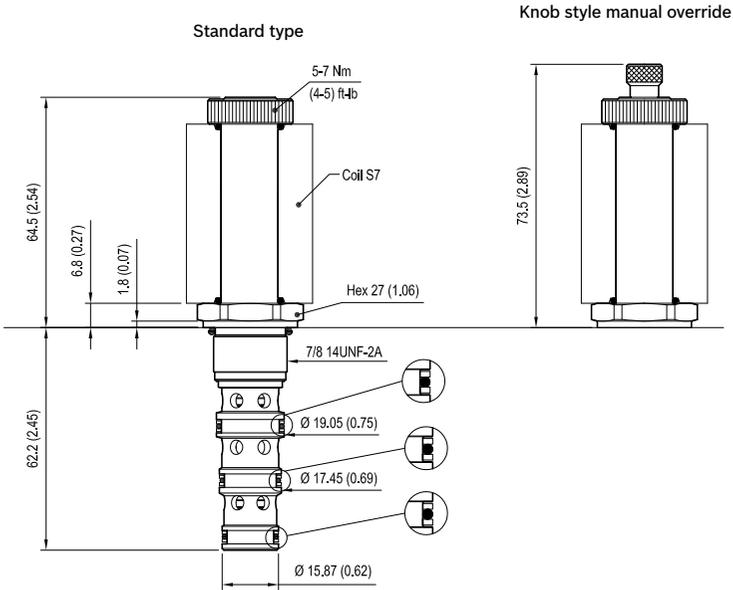
Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W 30
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 30W -10% + 10%

Note: Coils must be ordered separately.

Dimensions

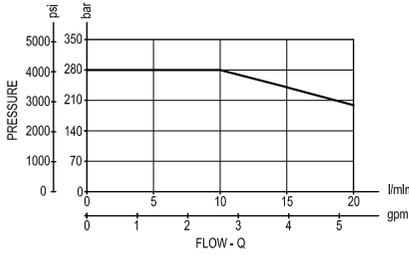
Solenoid operated valve, spool 4-way 2-position



mm (Inches)

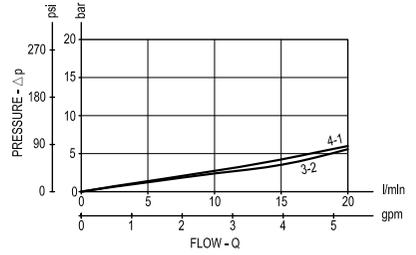
Performance graphs

Performance limits
(Hot coil at nominal voltage)

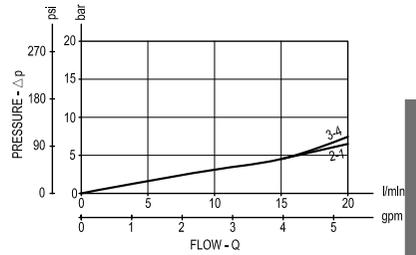
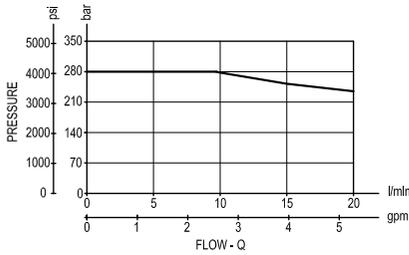


Version 40

Characteristic curves



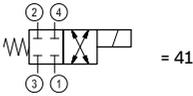
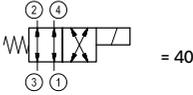
Version 41



Ordering code

OD.14	*	78	*	00
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Solenoid operated valves
spool 4-way 2 position



standard type



Knob style manual override



Common cavity: CA-10A-4N

Type	Material number	Type	Material number
OD144078700000	R901113695		
OD144078710000	R901113699		
OD144178700000	R901126906		

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Subject to change.

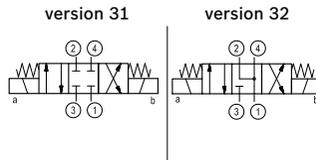
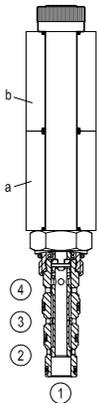
Solenoid operated valves direct acting spool 4-way 3-position

Common cavity, Size 10



VED-10A-43

OD.14 - 3W - 78 - Y - 00



General

Weight	kg (lbs)	0.27 (0.6)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W

Hydraulic

Max. operating pressure port 2-3-4	bar (psi)	280 (4000)
Max. operating pressure port 1		210 (3000)
Max. flow	l/min. (gpm.)	20 (6)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	120 (7)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-4N see RE 18325-70
Seal kit	code material no.	RG10A4010530100 R901111373
Seal kit coil	code material no.	RG16A2PMVQ0010 R934003963
Other technical data		See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

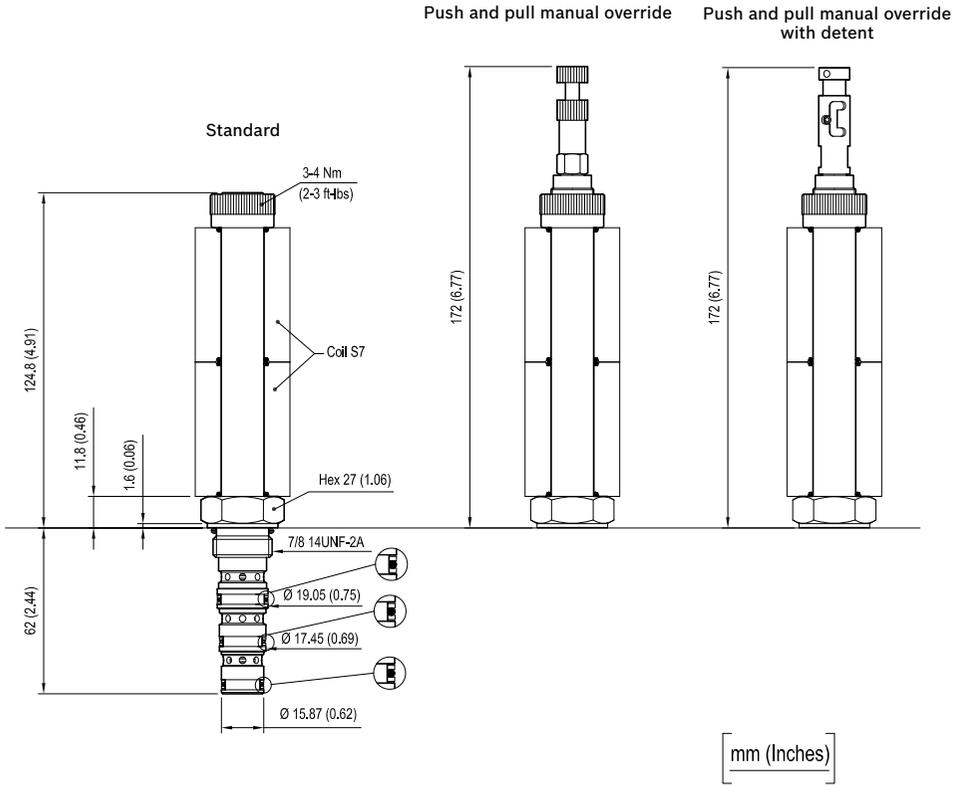
Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W/30
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 30W/-10% + 10%

Note: Coils must be ordered separately.

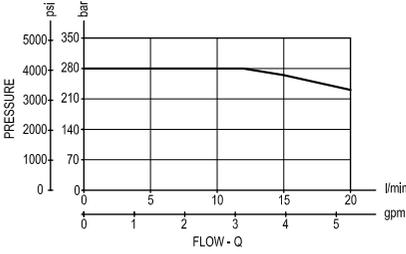
Dimensions

Solenoid operated valves spool 4-way 3-position



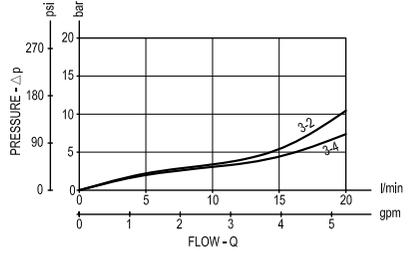
Performance graphs

Performance limits
(Hot coil at nominal voltage)

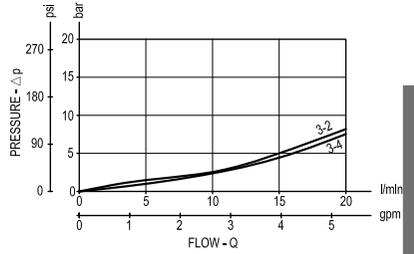
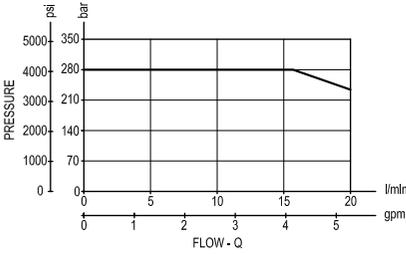


Version 31

Characteristic curves



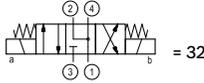
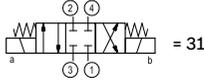
Version 32



Ordering code

OD.14	*	78	*	00
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Solenoid operated valves
spool 4-way 3 position



Common cavity: CA-10A-4N

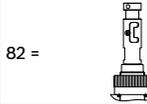
standard type



push and pull manual override



push and pull manual override
with detent



Type	Material number
OD14317880000	R901113701
OD143178810000	R901113703
OD143178820000	R934000642
OD143278800000	R901113706
OD143278810000	R901126908
OD143278820000	R934000651

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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Subject to change.

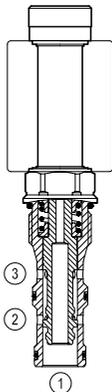
Solenoid operated valves direct acting spool 3-way 2-position

Common cavity, Size 12

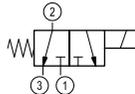


VEDS-12A-32

OD.13 - X - 12 - Y - 00



version 10



General

Weight	kg (lbs)	0.39 (0.86)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	315 (4500)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min.(gpm)	60 (16)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	180 (11)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 81-87 (60-64)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-12A-3N see RE 18325-70

Seal kit code RG12A3010520100 material no. R930000941

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

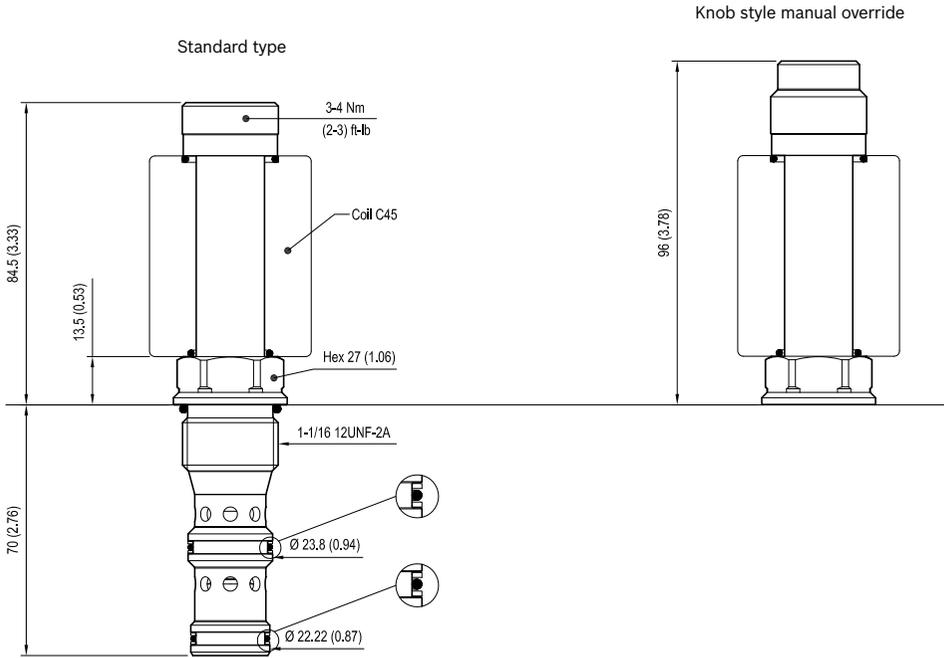
Electrical

Type of voltage	DC voltage
Coil type	C45
Supply voltage	See data sheet RE 18325-90
Power consumption	W33
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 33W	-10%+10%

Note: Coils must be ordered separately.

Dimensions

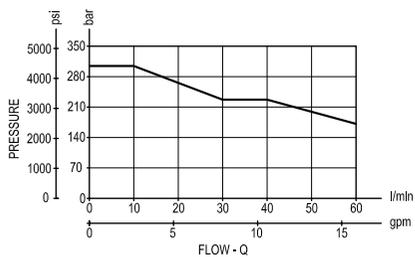
Solenoid operated valves direct acting spool 3-way 2-position



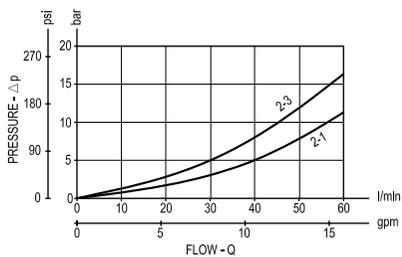
mm (Inches)

Performance graphs

Performance limits



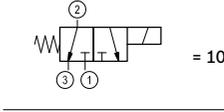
Characteristic curves



Ordering code

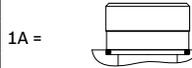
OD.13 * 12 * 00

Solenoid operated valves
spool 3-way 2-position

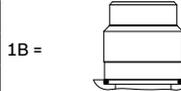


Common cavity: CA-12A-3N

Standard type



Knob style manual override



Type	Material number	Type	Material number
OD1310121A0000	R934003616		
OD1310121B0000	R934003620		

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Subject to change.

Solenoid Cartridge Valves

Electro-proportional

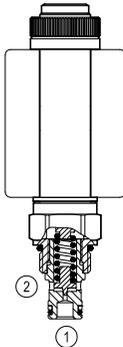
Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves electro-proportional relief direct acting	VEP-5B-2S-D	Size 08	OD940118YZ	RE 18323-65	837
Solenoid cartridge valves electro-proportional relief pilot operated	VEP-5B-2S-10A-P	Size 10	OD940536YZ	RE 18323-66	841
Solenoid cartridge valves electro-proportional relief pilot operated	VEP-5B-2S-P	Special	OD940561YZ	RE 18323-67	845
Solenoid cartridge valves electro-proportional direct acting pressure reducing	VEP-5A-3R-06	Size 10	OD910177Y00	RE 18323-60	849
Solenoid cartridge valves electro-proportional pilot operated pressure reducing	VEP-5A-2R-06-P	Size 10	OD910677Y00	RE 18323-61	853
Solenoid cartridge valves electro-proportional 2 way double lock normally closed	VEP-5A-2T-06-NC	Size 08	OD953118Y00	RE 18323-68	857
Solenoid cartridge valves electro-proportional flow regulator not compensated	VEP-5A-2Q-09	Size 10	OD92X77YZ	RE 18323-63	861
Solenoid cartridge valves electro-proportional flow regulator not compensated	VEP-5A-2Q-14	Size 12	OD92X12Y00	RE 18323-62	865
Solenoid cartridge valves electro-proportional flow regulator not compensated	VEP-5A-2Q-09	Size 10	OD920277YZ	RE 18323-64	869
Solenoid cartridge valves electro-proportional poppet type flow regulator not compensating	VEPN-12A	Size 12	OD9506897200	RE 18323-69	873

Proportional valves direct acting relief

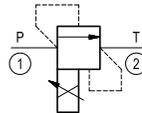
Common cavity, Size 08

VEP-5B-2S-D

OD.94.01.18 - Y - Z



Version 01



General

Weight	kg (lbs)	0.23 (0.51)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	See flow diagram
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	5 (0.3)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit code RG08A2010520100 material no. R901101437

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18325-90

(*) at 20% of pressure setting. Oil at 46 cSt

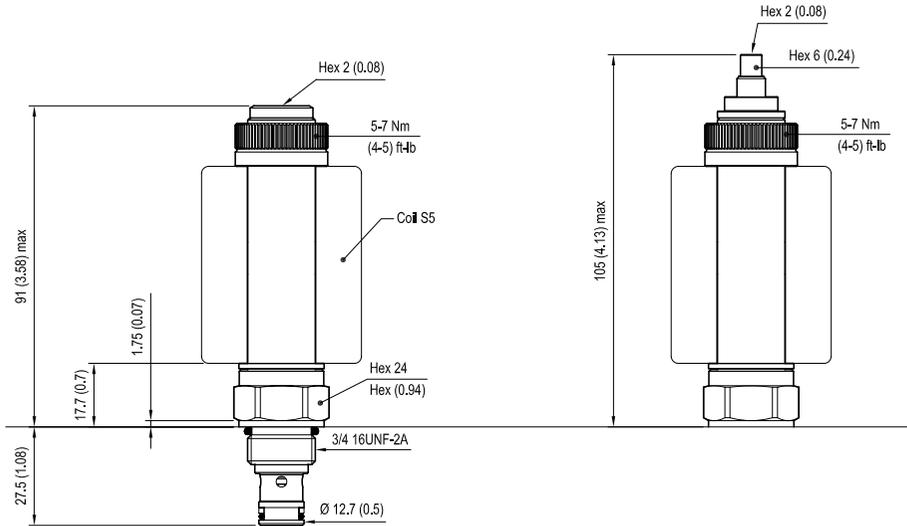
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

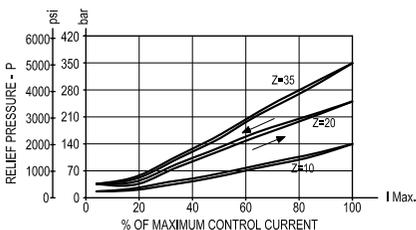
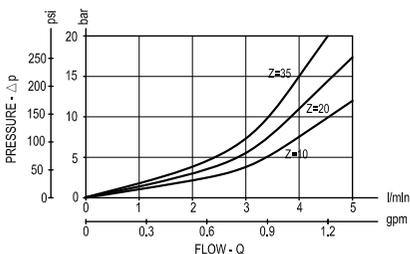
Dimensions

Proportional valves direct acting relief



mm (Inches)

Performance graphs



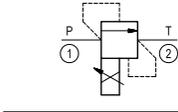
	I	P bar (psi)	Coils
Z=10	I min: 0.2 A	15 (218)	12 DC
	I max: 1.5 A	140 (2030)	12 DC
Z=20	I min: 0.15 A	30 (435)	12 DC
	I max: 1.7 A	250 (3625)	12 DC
Z=30	I min: 0.2 A	30 (435)	12 DC
	I max: 1.7 A	350 (5075)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note (1): It is recommended to use coil 12 DC.
 Note (2): It is recommended to bleed air carefully before operation.

Ordering code

OD.94 01 18 Y Z

Proportional valves direct acting relief

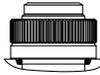


Common cavity: CA-08A-2N

	Operating range				
	Pressure range bar (psi)	Voltage V	I Min. A (±10%)	I Max. A (±10%)	Internal orifice mm (Inch)
= 10	15-140 (220-2000)	12	0.25	1.8	2.5 (0.9)
= 20	30-250 (440-3600)	12	0.25	1.8	1.8 (0.7)
= 35	30-350 (440-5000)	12	0.25	1.8	1.5 (0.6)

standard type

03 =



knob style manual override

04 =



Type	Material number
OD940118031000	R934001530
OD940118032000	R934001531
OD940118033500	R934001532
OD940118041000	R934001533
OD940118042000	R934001534
OD940118043500	R934001535

Type	Material number

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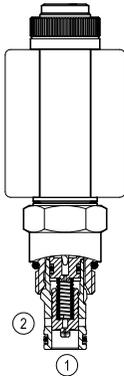
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Proportional valves pilot operated relief

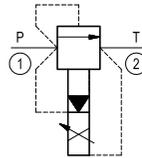
Common cavity, Size 10

VEP-5B-2S-10A-P

OD.94.05.36 - Y - Z



Version 05



General

Weight	kg (lbs)	0.3 (0.66)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	7-120 (2-32)
Max. internal leakage	cm ³ /min. (cu.in./min.)	200 (12)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 44-56 (33-41)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-10A-2N see Re 18325-70

Seal kit code material no. RG10A2010530100 R901111366

Seal kit coil code material no. RG19A1PNBR7010 R934003964

Other technical data See data sheet RE 18350-50

(*) at 20% of pressure setting. Oil at 46 cSt.

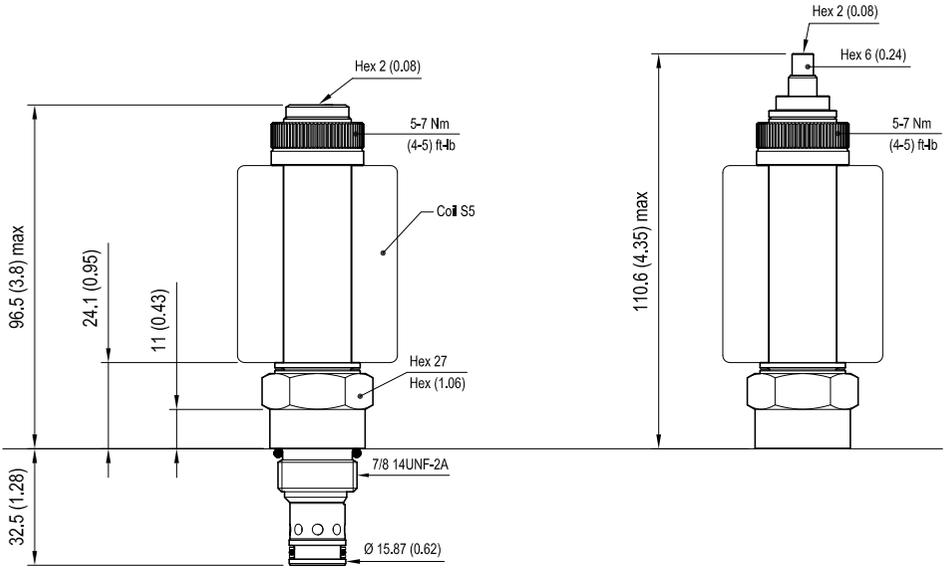
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

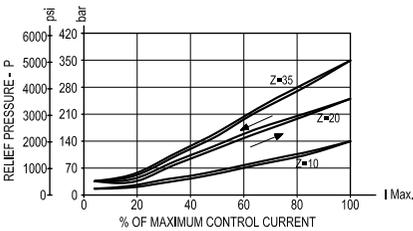
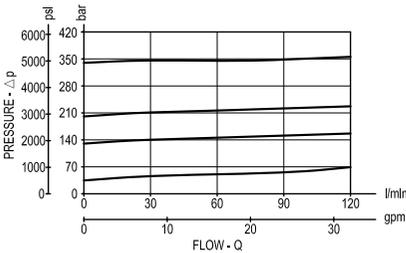
Dimensions

Proportional valves pilot operated relief



[mm (Inches)]

Performance graphs



	I	P bar (psi)	Coils
Z=10	I min: 0.2 A	15 (218)	12 DC
	I max: 1.5 A	140 (2030)	12 DC
Z=20	I min: 0.15 A	30 (435)	12 DC
	I max: 1.7 A	250 (3625)	12 DC
Z=35	I min: 0.2 A	30 (435)	12 DC
	I max: 1.7 A	350 (5075)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

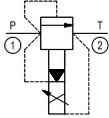
Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.

Ordering code

OD.94 05 36 Y Z

Proportional valves pilot operated relief

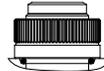


Common cavity: CA-10A-2N

	Operating range			
	Pressure range bar (psi)	Voltage V	I Min. A (±10%)	I Max. A (±10%)
= 10	15-140 (220-2000)	12	0.18	1.6
= 20	30-250 (440-3600)	12	0.13	1.5
= 35	30-350 (440-5000)	12	0.28	1.4

standard type

03 =



knob style manual override

04 =



Type	Material number
OD940536031000	R934001536
OD940536032000	R934001537
OD940536033500	R934001538
OD940536041000	R934001539
OD940536042000	R934001540
OD940536043500	R934003877

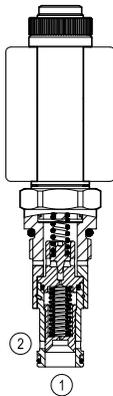
Type	Material number

Proportional valves pilot operated relief

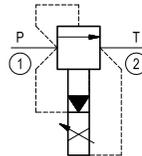
Special cavity, 065

VEP-5B-2S-P

OD.94.05.61 - Y - Z



Version 05



General

Weight	kg (lbs)	0.36 (0.79)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	8-150 (2-40)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	180 (11)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 121-133 (90-99)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 065 see RE 18325-75

Seal kit code RG0065010520100 material no. R930001958

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18325-90

(*) at 20% of pressure setting. Oil at 46 cSt.

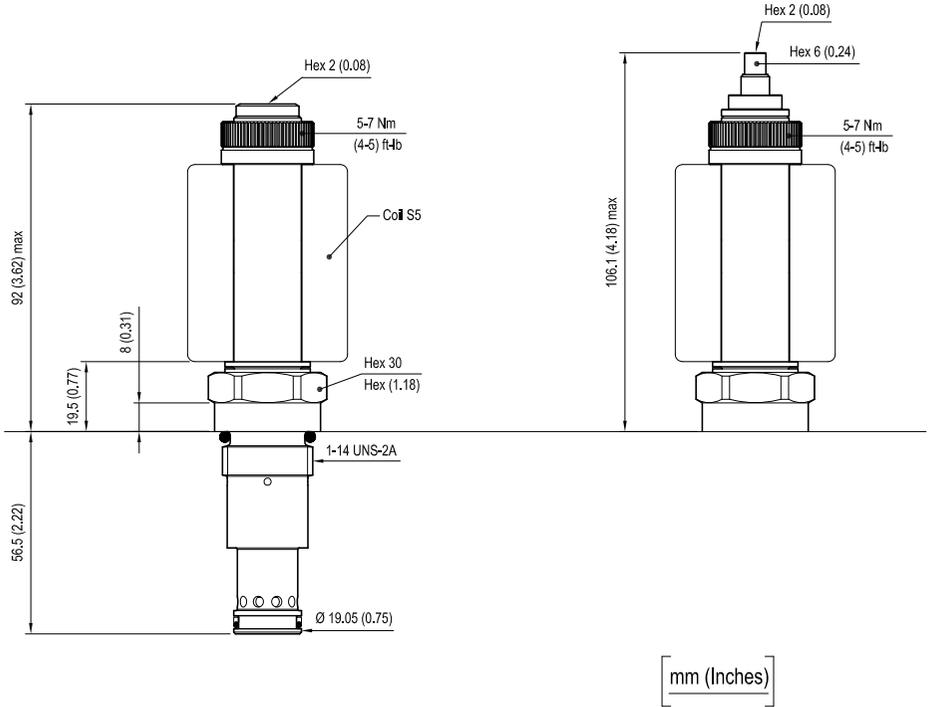
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	V 12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

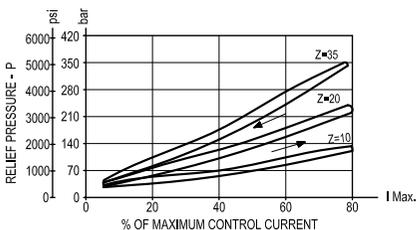
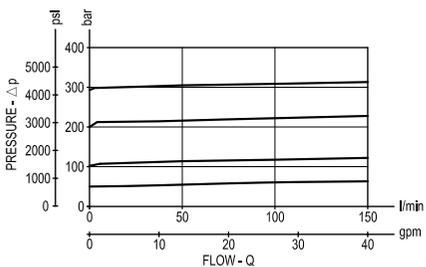
Note: Coils must be ordered separately.

Dimensions

Proportional valves pilot operated relief



Performance graphs



	I	P bar (psi)	Coils
Z=10	I min: 0.2 A	20 (290)	12 DC
	I max: 1.5 A	120 (1740)	12 DC
Z=20	I min: 0.15 A	20 (290)	12 DC
	I max: 1.7 A	220 (3190)	12 DC
Z=35	I min: 0.2 A	30 (435)	12 DC
	I max: 1.7 A	350 (5075)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

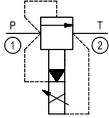
Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.

Ordering code

OD.94 05 61 Y Z

Proportional valves pilot operated relief

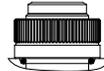


Special cavity: 065

	Operating range			
	Pressure range bar (psi)	Voltage V	I Min. A (±10%)	I Max. A (±10%)
= 10	20-120 (290-1740)	12	0.2	1.5
= 20	20-220 (290-3190)	12	0.1	1.7
= 35	30-350 (440-5000)	12	0.2	1.7

standard type

03 =



knob style manual override

04 =



Type	Material number
OD940561031000	R934001541
OD940561032000	R934001542
OD940561033500	R934001543
OD940561041000	R934001544
OD940561042000	R934001545
OD940561043500	R934003850

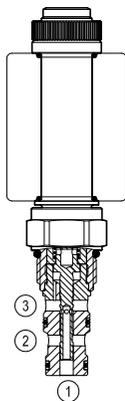
Type	Material number

Proportional valves direct acting pressure reducing

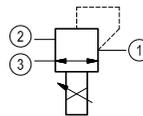
Common cavity, Size 10

VEP-5A-3R-06

OD.91.01.77 - Y - 00



Version 01



General

Weight	kg (lbs)	0.3 (0.66)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Max. flow	l/min.(gpm)	10 (3)
Max. internal leakage	cm ³ /min. (cu.in./min.)	12 (0.7)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Seal kit	code material no.	RG10A3010530100 R930000990
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

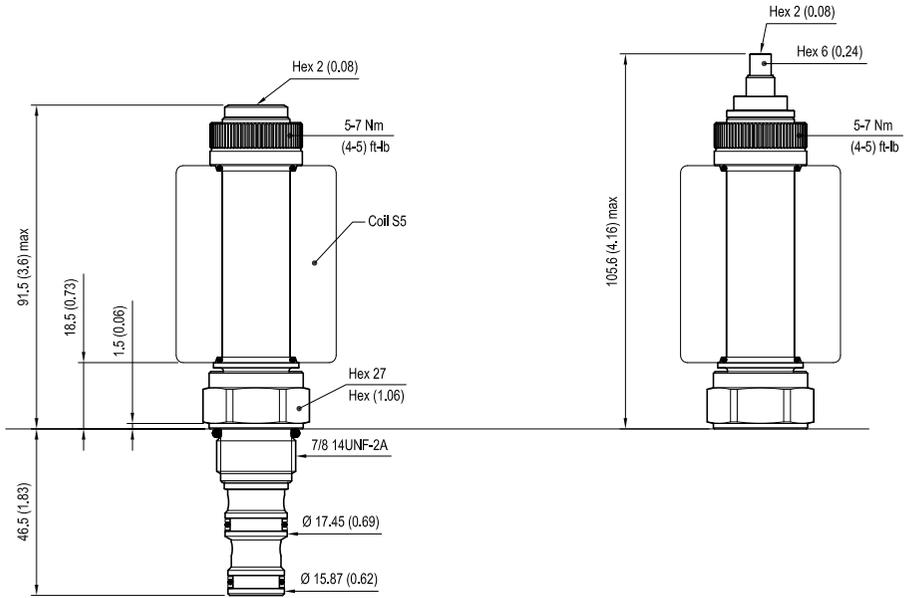
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

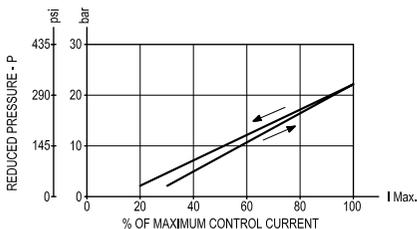
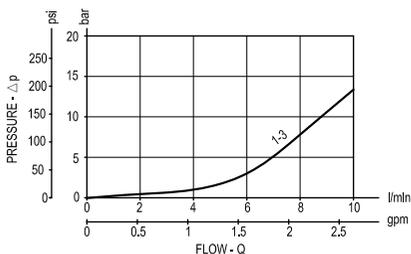
Proportional valves direct acting pressure reducing



[mm (Inches)]

Allowed back pressure at port 3 (T): 5 bar (73 psi)
max

Performance graphs

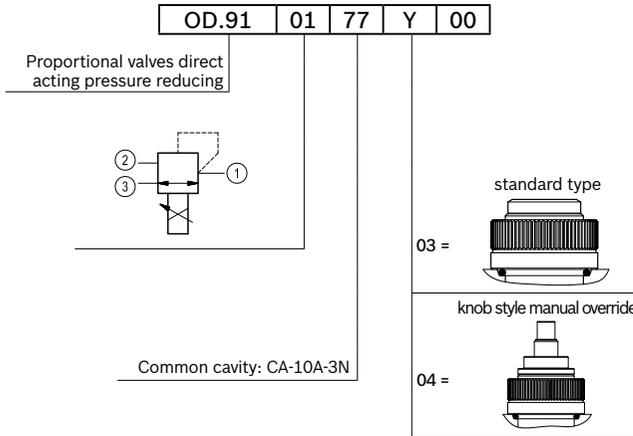


	I	P bar (psi)	Coils
I min:	0.45 A	2 (29)	12 DC
I max:	2.0 A	22 (319)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.

Ordering code



Type	Material number
OD910177030000	R934001495
OD910177040000	R934003442

Type	Material number

Bosch Rexroth Oil Control S.p.A.
 Via Leonardo da Vinci 5
 P.O. Box no. 5
 41015 Nonantola – Modena, Italy
 Tel. +39 059 887 611
 Fax +39 059 547 848
 cartridges@oilcontrol.com
 www.boschrexroth.com

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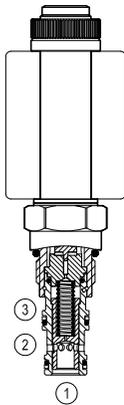
The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.
 Subject to change.

Proportional valves pilot operated pressure reducing

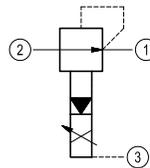
Common cavity, Size 10

VEP-5A-2R-06-P

OD.91.06.77 - Y - 00



Version 06



General

Weight	kg (lbs)	0.3 (0.66)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Flow range	l/min.(gpm)	2-60 (0.5-16)
Max. internal leakage	cm³/min. (cu.in./min.)	50 (3)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 44-56 (33-41)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-10A-3N see RE 18325-70

Seal kit code RG10A3010520100 material no. R901111369

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18325-90

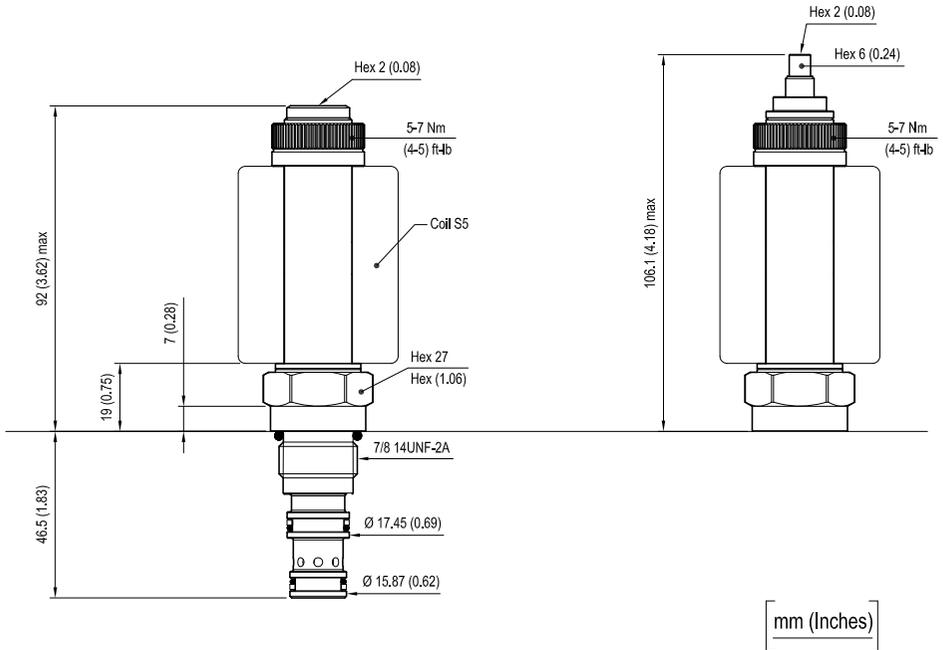
Electrical

Type of voltage		12 DC voltage
Coil type		S5
Supply voltage		See data sheet RE 18325-90
Nominal voltage		± 10%
Power consumption	W	23
Duty cycle	%	100
Type of protection		See data sheet RE 18325-90

Note: Coils must be ordered separately.

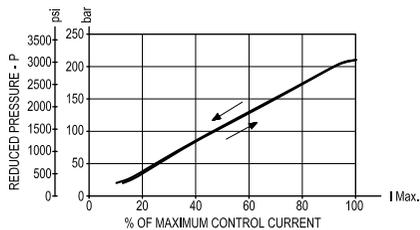
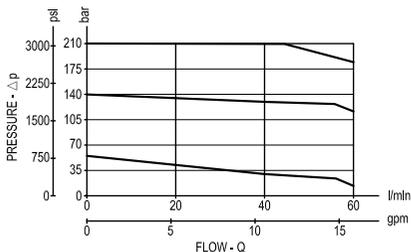
Dimensions

Proportional valves pilot operated pressure reducing



Allowed back pressure at port 3 (Y): 5 bar (73 psi)
max

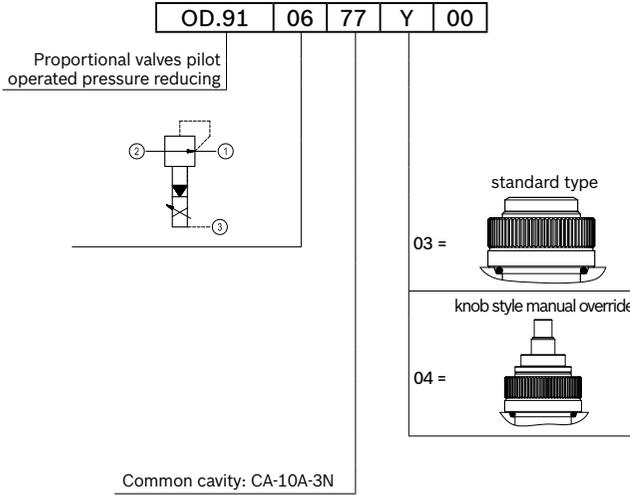
Performance graphs



	I	P bar (psi)	Coils
I min:	0.1 A	15 (218)	12 DC
I max:	1.3 A	210 (3045)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note (1): It is recommended to use coil 12 DC.
 Note (2): It is recommended to bleed air carefully before operation.

Ordering code



Type	Material number
OD910677030000	R901118933
OD910677040000	R901126868

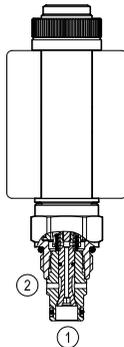
Type	Material number

Proportional valves 2-way double lock normally closed

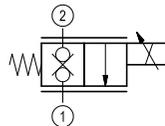
Common cavity, Size 08

VEP-5A-2T-06-NC

OD.95.31.18 - Y - 00



Version 31



4

General

Weight - Valve	kg (lbs)	0.25 (0.55)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min. (gpm)	2-20 (0.5-5)
Max. internal leakage	cm ³ /min. (cu.in./min.)	1 (0.1)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit code RG08A2010530100 material no. R901101544

Seal kit coil code RG19A1PNBR7010 material no. R934003964

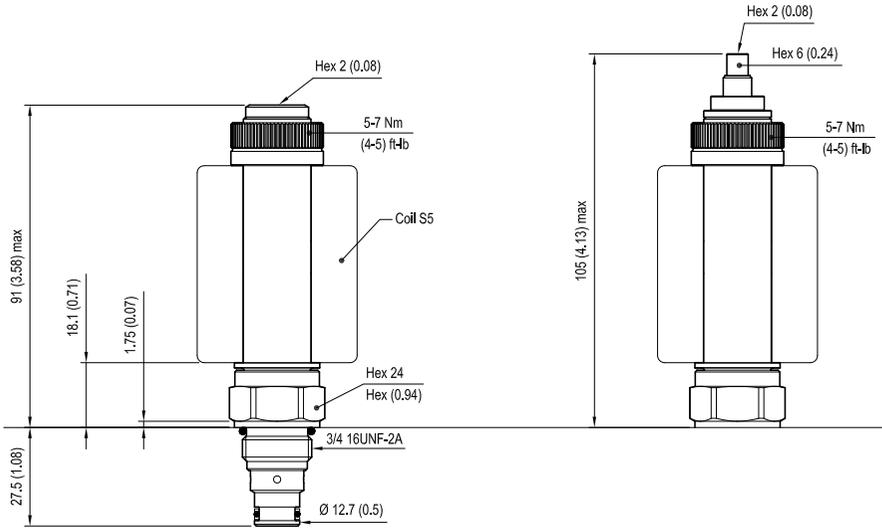
Other technical data See data sheet RE 18325-90

Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

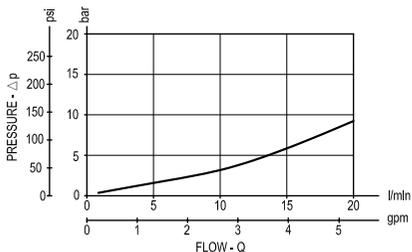
Dimensions

Proportional valves 2-way double lock normally closed



mm (Inches)

Performance graphs



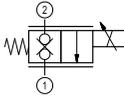
Flow regulation			
Pressure bar (psi)	Flow Q l/min (gpm)	I Min. A (±10%)	I Max. A (±10%)
15 (218)	19 (5)	0.8	1.4
100 (1450)	20 (5.3)	0.9	1.6
200 (2900)	20 (5.3)	0.95	2.1

Note: it is recommended to use coil 12 DC.

Ordering code

OD.95	31	18	Y	00
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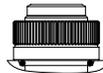
Proportional valves 2-way
double lock normally
closed



Common cavity: CA-08A-2N

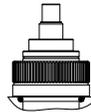
standard type

03 =



knob style manual override

04 =



Type	Material number
OD953118030000	R901113761
OD953118040000	R901126864

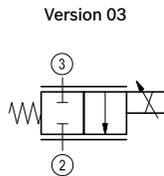
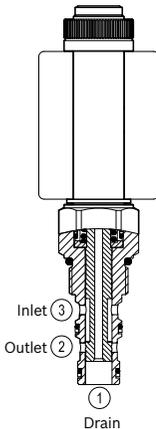
Type	Material number

Proportional valves not compensated flow regulator

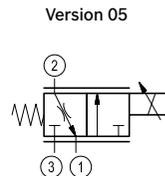
Common cavity, Size 10

VEP-5A-2Q-09

OD.92 - X - 77 - Y - Z



Version 03: port 1 not used.



General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	see flow diagram
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	100 (6)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Seal kit	code material no.	RG10A3010520100 R901111369
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

(*) Measure at 210 bar (3000 psi). Oil at 46 cSt.

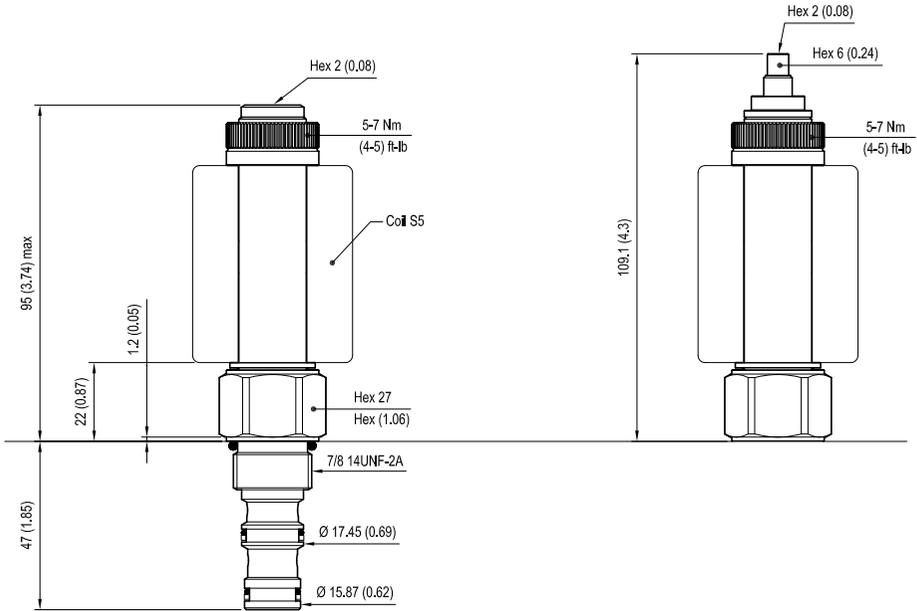
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

Proportional valves not compensated flow regulator

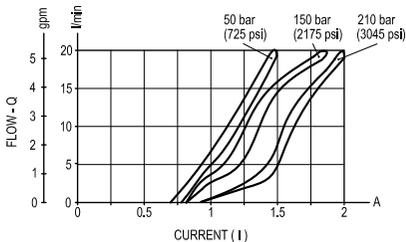
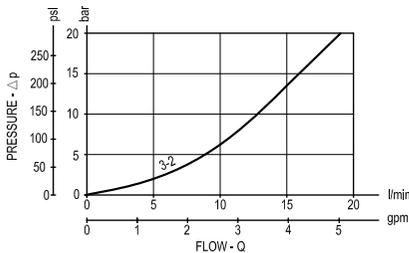


Version 03
PORT NOT USED

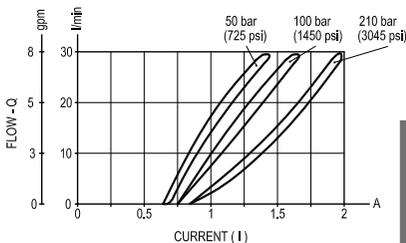
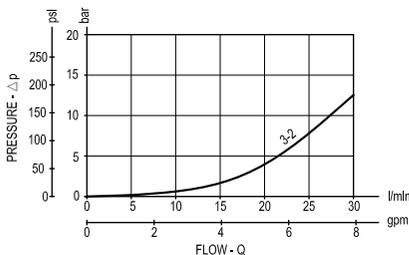
mm (Inches)

Performance graphs

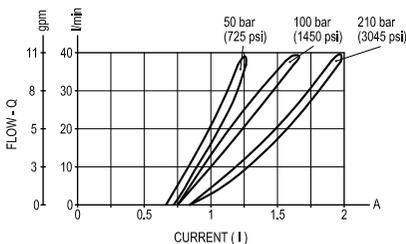
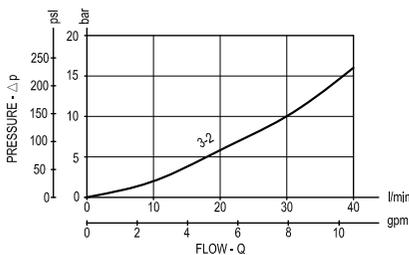
Z= 01



Z= 02



Z= 03



PMW Frequency: 120-150 Hz

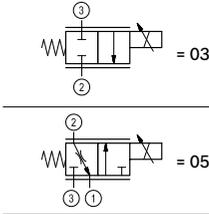
Hysteresis: < 5%

Note: It is recommended to use coil 12 DC.

Ordering code

OD.92	X	77	Y	Z
-------	---	----	---	---

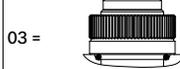
Proportional valves
not compensated flow
regulator



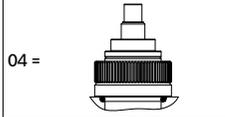
Common cavity: CA-10A-3N

	Operating range		
	Rated flow max l/min (gpm)	I Min. A (±10%)	I Max. A (±10%)
= 01	20 (6)	0.9	2
= 02	30 (8)	0.8	2
= 03	40 (11)	0.8	2

standard type



knob style manual override



Type	Material number
OD920377030100	R934001518
OD920377030200	R934001519
OD920377030300	R934001520
OD920377040100	R934001521
OD920377040200	R934003909
OD920377040300	R934001522
OD920577030100	R934001524
OD920577030200	R934003130
OD920577030300	R934001525
OD920577040100	R934001526

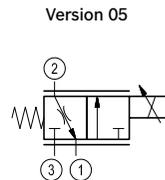
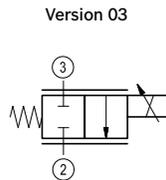
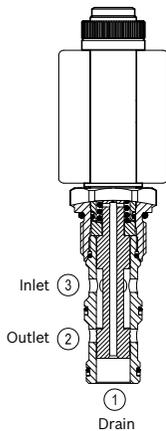
Type	Material number
OD920577040200	R901176252
OD920577040300	R93401528

Proportional valves not compensated flow regulator

Common cavity, Size 12

VEP-5A-2Q-14

OD.92 - X - 12 - Y - 00



Version 03: port 1 not used.

General

Weight	kg (lbs)	0.39 (0.86)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	5-60 (1-16)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	190 (12)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids

Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque	Nm (ft-lbs)	81-95 (60-70)
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Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
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Cavity		CA-12A-3N see RE 18325-70
--------	--	---------------------------

Seal kit	code	RG12A3010520100
	material no.	R930000941

Seal kit coil	code	RG19A1PNBR7010
	material no.	R934003964

Other technical data		See data sheet RE 18325-90
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(*) Measured at 210 bar (3000 psi). Oil at 46 cSt.

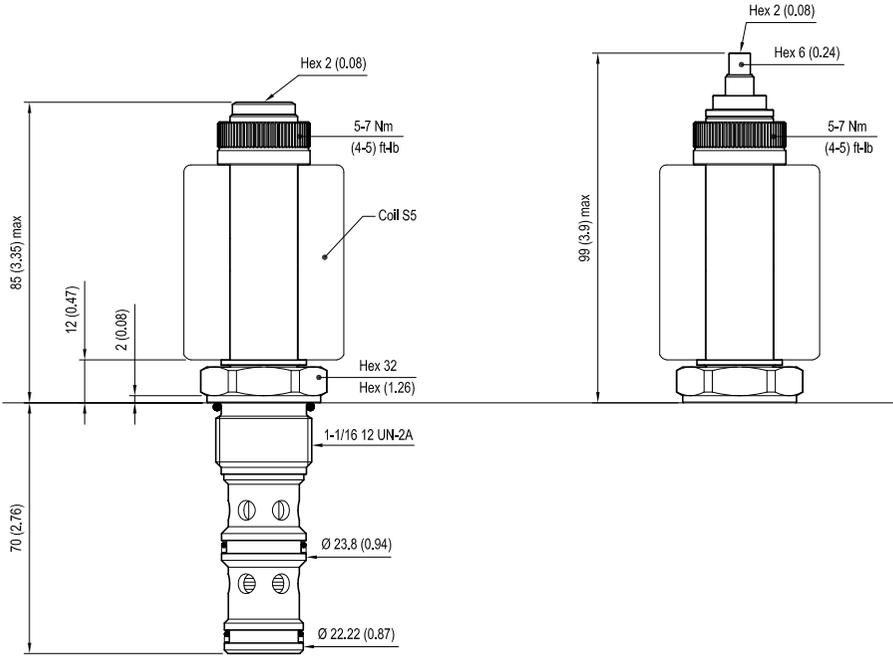
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

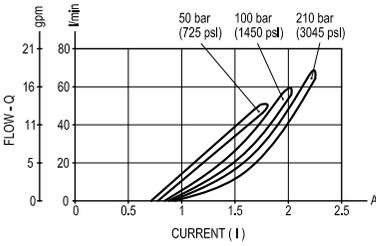
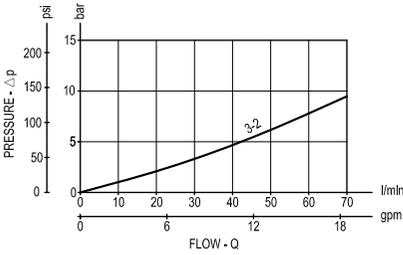
Proportional valves not compensated flow regulator



Version 03
PORT NOT USED

mm (Inches)

Performance graphs



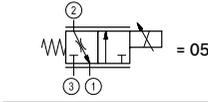
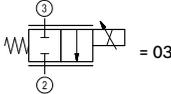
		I	P bar (psi)	Coils
Z=00	I min:	0.75 A	210 (3000)	12 DC
	I max:	2.1 A	210 (3000)	12 DC
PMW Frequency: 150-180 Hz				
Hysteresis: < 5%				

Note: It is recommended to use coil 12 DC.

Ordering code

OD.92 X 12 Y 00

Proportional valves
not compensated flow
regulator



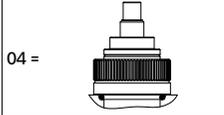
Common cavity: CA-12A-3N

Operating range		
Rated flow max l/min (gpm)	I Min. A (±10%)	I Max. A (±10%)
70 (19)	0.7	2.1

standard type



knob style manual override



Type	Material number
OD920312030000	R934001514
OD920312040000	R934001515
OD920512030000	R934001523
OD920512040000	R934003910

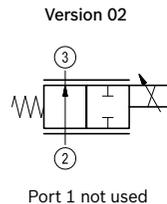
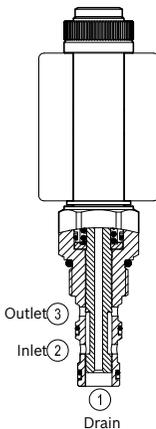
Type	Material number

Proportional valves not compensated flow regulator

Common cavity, Size 10

VEP-5A-2Q-09

OD.92.02.77 - Y - Z



General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	See flow diagram
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	100 (6)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 44-56 (33-41)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-10A-3N see RE 18325-70

Seal kit code RG10A3010520100 material no. R901111369

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18325-90

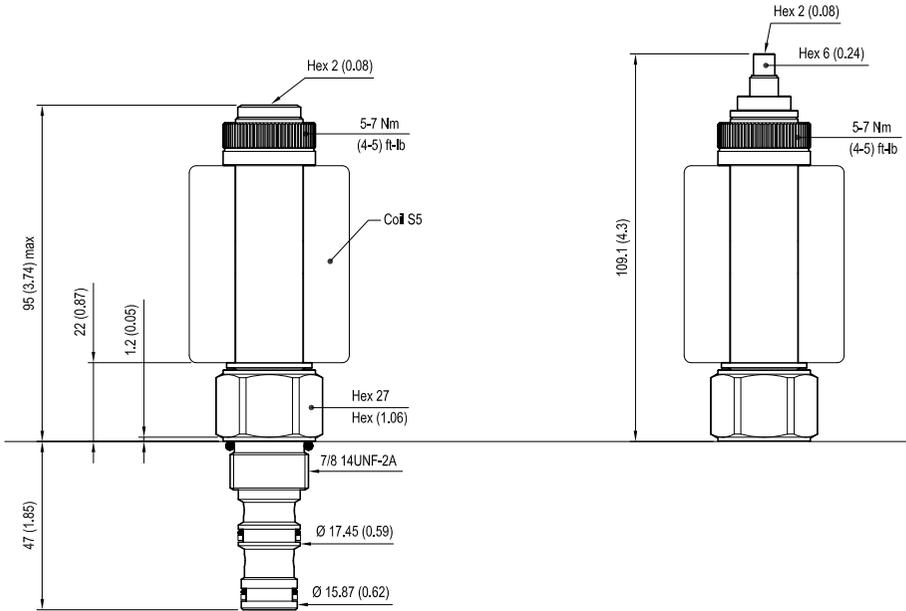
(*) Measured at 210 bar (3000 psi). Oil at 46 cSt.

Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Dimensions

Proportional valves not compensated flow regulator

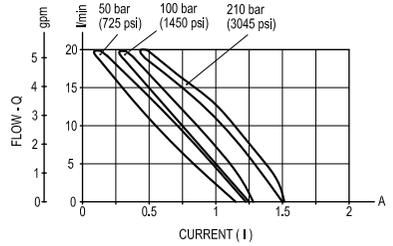
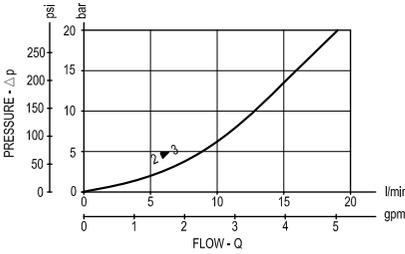


PORT NOT USED

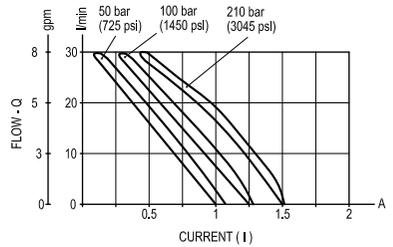
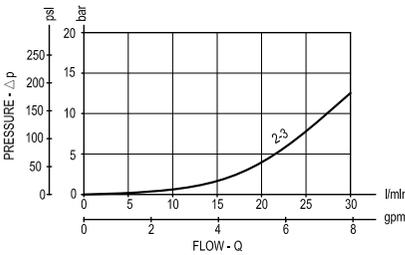
mm (Inches)

Performance graphs

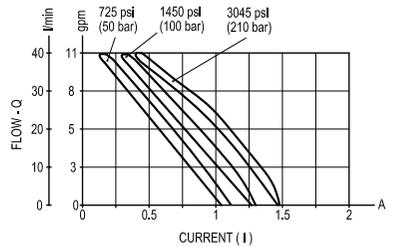
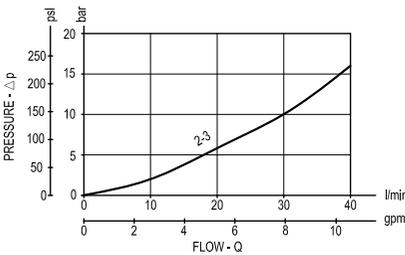
Z= 01



Z= 02



Z= 03



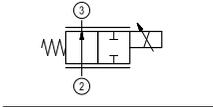
PMW Frequency: 120-150 Hz
Hysteresis: < 5%

Note: It is recommended to use coil 12 DC.

Ordering code

OD.92 02 77 Y Z

Proportional valves
not compensated flow
regulator

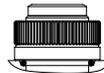


Common cavity: CA-10A-3N

	Operating range		
	Rated flow max l/min (gpm)	I Min. A (±15%)	I Max. A (±15%)
= 01	20 (6)	0.4	1.4
= 02	30 (8)	0.4	1.4
= 03	40 (11)	0.3	1.4

standard type

03 =



knob style manual override

04 =



Type	Material number
OD920277030100	R934001510
OD920277030200	R934001511
OD920277030300	R934003129
OD920277040100	R934003908
OD920277040200	R934001512
OD920277040300	R934001513

Type	Material number

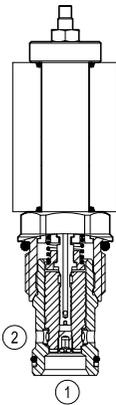
Proportional valves poppet type not compensated flow regulator

Common cavity, Size 12

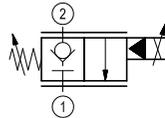


VEPN-12A

OD.95.06.89.72.00



Version 06



4

General

Weight	kg (lbs)	0.29 (0.64)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 90 (-22 to 194)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	5-60 (1-16)
Max. internal leakage	cm ³ /min. (cu.in./min.)	10 (0.6)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 51-55 (38-41)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-12A-2N see RE 18325-70

Seal kit code RG12A2010520100 material no. R901111377

Seal kit coil code RG16A1PMVQ0010 material no. R934003962

Other technical data See data sheet RE 18325-90

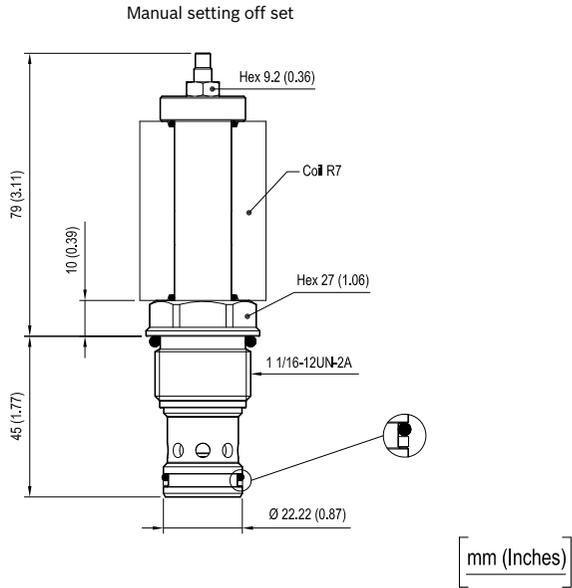
Electrical

Type of voltage		12 DC voltage
Coil type		R7
Supply voltage		12 DC
Nominal voltage		± 10%
Power consumption	W	18
Duty cycle	%	100
Type of protection		See data sheet RE 18325-90

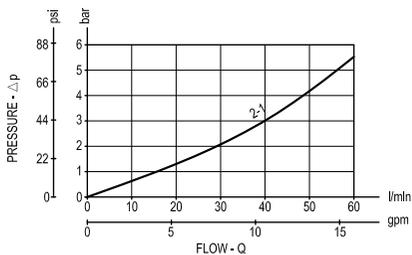
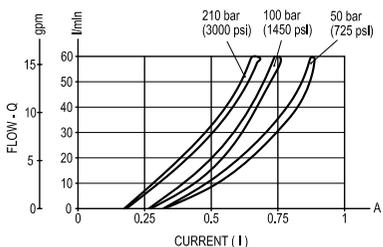
Note: Coils must be ordered separately.

Dimensions

Proportional valves poppet type not compensated flow regulator



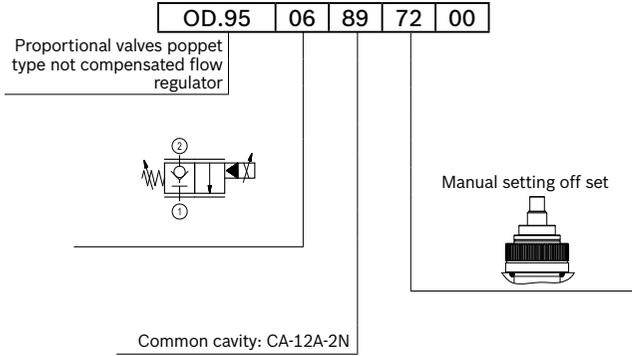
Performance graphs



	I	P bar (psi)	Coils
I min:	0.2	210 (3000)	12 DC
I max:	0.65	210 (3000)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note: It is recommended to use coil 12 DC.

Ordering code



Type	Material number	Type	Material number
OD950689720000	R934001162		

Coils and Connectors

Designation	Data sheet	Pages
Coils - connectors	RE 18325-90	879

Coils - Connectors

RE 18325-90/07.12
Replaces: RE 18325-90/09.11

Coils Connectors



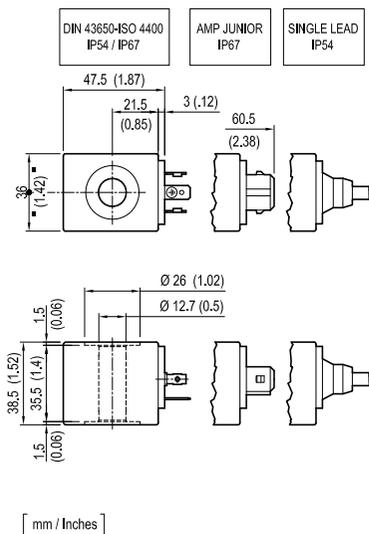
Summary

Description	Page	Description	Page
Coils		Connectors	
Coil S8-356 - CLASS H - 20 W	2-3	Connector IP67	11-14
Coil S8-356 - CLASS H - 17 W	4		
Coil S8-356 - CLASS H - 17 W - APPROVED UL	5		
Coil S5 - CLASS H - 20 W	6		
Coil S7 - CLASS H - 30 W	7		
Coil S7 - CLASS H - 26 W	8		
Coil C45 - CLASS H	9		
Coil R7 - CLASS H	10		

Coils - Connectors

COIL S8-356 - CLASS H - 20 W

OD.02.17 - X - Y - Z



TECHNICAL DATA

Weight: 0.18 kg (0.40 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+60°C (-22/+140°F)

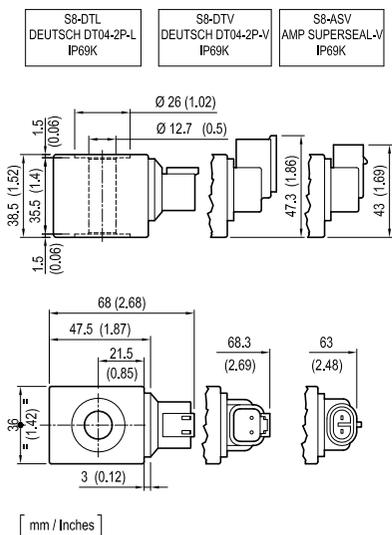
Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

X	Y	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC-RAC
07	30	AMP JUNIOR	Standard	DC
0G	03	SINGLE LEAD	Standard	DC *
14	30	DIN 43650 - ISO 4400	Bidirectional Diode	DC
15	30	AMP JUNIOR	Bidirectional Diode	DC
0H	03	SINGLE LEAD	Bidirectional Diode	DC *

* Length 300mm (11.8 inches). Ext. diameter 6.3mm (0.25 inches). External and internal Sheath Silicone rubber.

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A		ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
OB	12 DC	7.2	20	1.7	1.2	105-110 (221-230)
OG	14 DC	9.0	20	1.6	1.1	
OC	24 DC	28.2	20	0.9	0.6	
AC	26 DC	33.6	20	0.8	0.5	
OV	24 RAC	23.1	20	0.9	-	110-125 (230-257)
OW	110 RAC	478.3	20	0.2	-	
OZ	220 RAC	1919.9	20	0.1	-	

[mm / Inches]



X	Y	Connections	Circuit	Voltage
20	30	DEUTSCH DT04-2P-L	Standard	DC
20	3P	DEUTSCH DT04-2P-V	Standard	DC
30	3P	AMP SUPERSEAL-V	Standard	DC
22	30	DEUTSCH DT04-2P-L	Bidirectional Diode	DC
22	3P	DEUTSCH DT04-2P-V	Bidirectional Diode	DC
32	3P	AMP SUPERSEAL-V	Bidirectional Diode	DC

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A		ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
OB	12 DC	7.2	20	1.7	1.2	105-110 (221-230)
OC	24 DC	28.2	20	0.9	0.6	
AC	26 DC	33.6	20	0.8	0.5	

These coils have passed the THERMAL SHOCK DUNK TEST

[mm / Inches]

Coils - Connectors

Preferred types (readily available)

Type	Material number
OD02170130AC00	R901058832
OD02170130OB00	R901090821
OD02170130OC00	R901083065
OD02170130OG00	R901144215
OD02170130OV00	R901090820
OD02170130OW00	R901087981
OD02170130OZ00	R901085466
OD02170730AC00	R934000494
OD02170730OB00	R901094604
OD02170730OC00	R901094607
OD02170730OG00	R934000498
OD02170G03OB00	R901100773
OD02170G03OC00	R901100775
OD02171430OB00	R901131889
OD02171430OC00	R901121821
OD02171530AC00	R901133139

Further types available by request

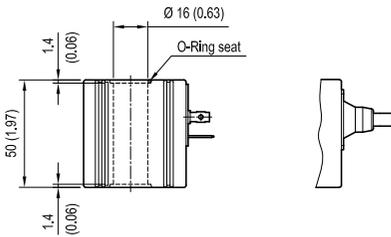
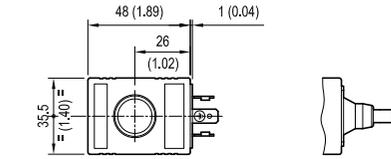
Type	Material number
OD02171530OB00	R901111032
OD02171530OC00	R901125292
OD02172030OB00	R901094609
OD02172030OC00	R901094611
OD0217203PAC00	R934000509
OD0217203POB00	R901110014
OD0217203POC00	R901110015
OD02172230OB00	R901130433
OD02172230OC00	R901130401
OD02172230OG00	R934003033
OD0217223POB00	R901120671
OD0217223POC00	R901114602
OD0217303PAC00	R934000516
OD0217303POB00	R901110016
OD0217323POB00	R934000519
OD02170H03OG00	R934004360

Coils - Connectors

COIL S7 - CLASS H - 30 W

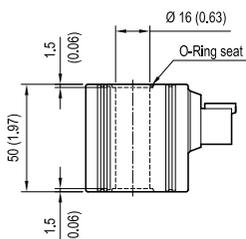
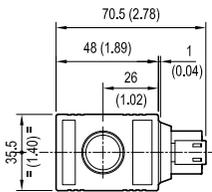
S7-H
DIN 43650/ISO 4400
IP54 / IP67

SINGLE LEAD
IP54



[mm / Inches]

S7-D
DEUTSCH DT04-2P
IP69K



[mm / Inches]

Preferred types (readily available)

Type	Material number
OD02070130OB02	R901090824
OD02070130OC02	R901090825
OD02072030OB02	R901094589
OD02072030OG02	R934000349
OD02072230OG02	R934000355

OD.02.07 - X - Y - Z - 02

TECHNICAL DATA

Weight: 0.33 kg (0.73 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+60°C (-22/+140°F)

Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

X	Y	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC
0H	02	SINGLE LEAD	Bidirectional Diode	DC *

* Length 200 mm (7.87 inches). Ext. diameter 0.53 mm (0.02). External and internal Health Silicone rubber.

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A		ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	
OB	12 DC	4.8	30	2.5	1.8	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage 120-140 (248-284)
OC	24 DC	18.8	30	1.2	0.9	

X	Y	Connections	Circuit	Voltage
20	30	DEUTSCH DT04-2P	Standard	DC
22	30	DEUTSCH DT04-2P	Bidirectional Diode	DC

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A		ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	
OB	12 DC	4.8	30	2.5	1.8	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage 120-140 (248-284)
OG	14 DC	6.5	30	2.1	1.4	
OC	24 DC	18.8	30	1.2	0.9	

Available on request: different voltages, working duty Ed 50 %

These coils have passed the THERMAL SHOCK DUNK TEST

Note: for general information see "Section 7 - Technical Data"

Type	Material number
OD02072030OC02	R901094594
OD02072230OB02	R901094595
OD02072230OC02	R901094597
OD02070H02OB02	R934004373

Further types available by request

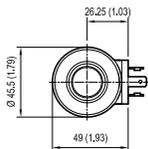
Coils - Connectors

COIL C45 - CLASS H

DIN 43650 - ISO 4400
C45 01
IP54 / IP67

AMP JUNIOR
C45 03

DEUTSCH DT04-2P
C45 07



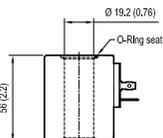
TECHNICAL DATA

Weight: 0.34 kg (0.75 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+60°C (-22/+140°F)

Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.



[mm / Inches]

Connection

DIN 43650 - ISO 4400

Description	Voltage V	Power W	Current A to 20°C	Resistance Ω $\pm 7\%$ to 20°C	Code	Material Number
C45 01 12DC	12 DC	33	2.8	4.2	271-0417	R933000026
C45 01 24DC	24 DC	33	1.4	17.1	271-0418	R933000034

Connection

AMP JUNIOR

Description	Voltage V	Power W	Current A to 20°C	Resistance Ω $\pm 7\%$ to 20°C	Code	Material Number
C45 03 12DC	12 DC	33	2.8	4.2	271-041710	R933000027
C45 03 24DC	24 DC	33	1.4	17.1	271-041725	R933003630

Connection

DEUTSCH DT04-2P

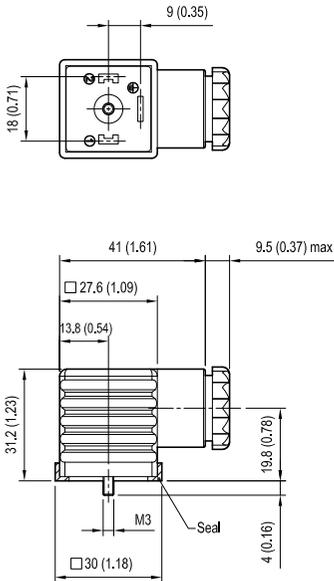
Description	Voltage V	Power W	Current A to 20°C	Resistance Ω $\pm 7\%$ to 20°C	Code	Material Number
C45 07 12DC	12 DC	33	2.8	4.2	271-041717	R933000030
C45 07 24DC	24 DC	33	1.4	17.1	271-041719	R933000032

Coils - Connectors

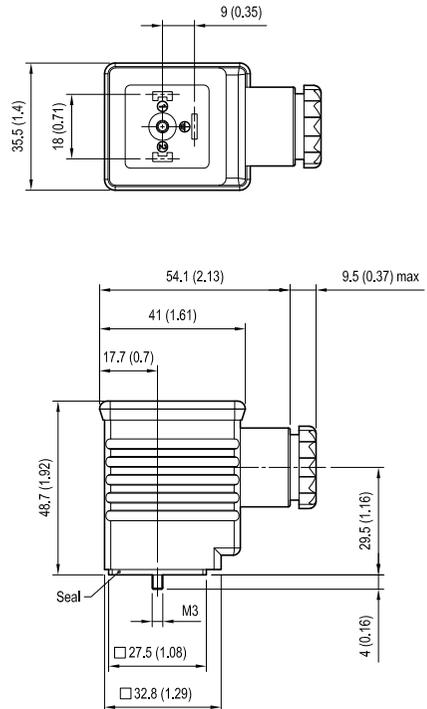
CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

Ambient temperature	- Standard	°C	- 20 to + 100
	-With indicator lamp/rectifier	°C	-20 to + 60
Type of protection according to DIN 40050	IP67 with cable socket mounted and locked		
Operating voltage	V Choose the proper ordering code according to the circuit		
Maximum operating current	- Standard	A	16
	- With rectifier	A	1 or 3
Current consumption of LED	mA approx. 10		
LED	Red		
Number of pins	2 + PE		
Clamping range for cables having an outer diameter of	mm	5, up to 10	
Cable entry	Pg9 / Pg11 (unified)		
Maximum cable cross-section	mm ²	1.5	

Type 1



Type 2

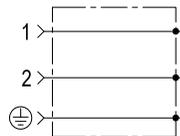


[mm / Inches]

Coils - Connectors

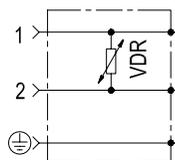
CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

STANDARD CIRCUIT



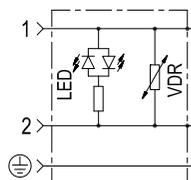
Colour	Valve side	Cable entry	Type connector	Code	Material number
black	B	Pg9 / Pg11	type 1	OD016901000000	R934004344
grey	A	Pg9 / Pg11	type 1	OD016901000003	R934004346

CIRCUIT WITH VDR



Voltage V AC DC	Colour	Valve side	Cable entry	Type connector	Code	Material number
24	black	A/B	Pg9 / Pg11	type 1	OD01690700OC00	R934004362
115	black	A/B	Pg9 / Pg11	type 1	OD01690700OE00	R934004363
230	black	A/B	Pg9 / Pg11	type 1	OD01690700OF00	R934004364

CIRCUIT WITH VDR + LED

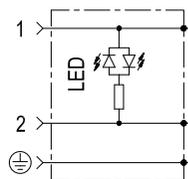


Voltage V AC DC	Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
24	transparent	A/B	Pg9 / Pg11	red	type 1	OD01692100OC00	R934004371

Coils - Connectors

CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

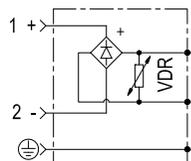
CIRCUIT WITH LED



Voltage V		Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
AC	DC							
12		transparent	A/B	Pg9 / Pg11	red	type 1	OD01690300OB00	R934004354
24		transparent	A/B	Pg9 / Pg11	red	type 1	OD01690300OC00	R934004355
230		transparent	A/B	Pg9 / Pg11	red	type 1	OD01690300OF00	R934004356

CIRCUIT WITH VDR + WAVE RECTIFIER

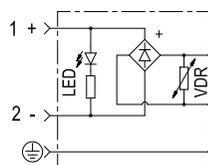
Note: for diode with capacity max 1 Amp,
suitable only for S8-356 coils.



Voltage V		Diode Capacity I max	Colour	Valve side	Cable entry	Type connector	Code	Material number
AC	DC							
115	/	1 A	black	A/B	Pg9 / Pg11	type 1	OD01690201OW00	R934004352
230	/	1 A	black	A/B	Pg9 / Pg11	type 1	OD01690201OZ00	R934004353
24	/	3 A	black	A/B	Pg9 / Pg11	type 2	OD01690200OV00	R934004349
115	/	3 A	black	A/B	Pg9 / Pg11	type 2	OD01690200OW00	R934004350
230	/	3 A	black	A/B	Pg9 / Pg11	type 2	OD01690200OZ00	R934004351

CIRCUIT WITH VDR + WAVE RECTIFIER + LED

Note: for diode with capacity max 1 Amp,
suitable only for S8-356 coils.

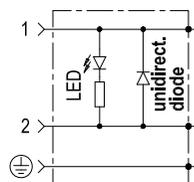


Voltage V		Diode Capacity I max	Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
AC	DC								
115	/	1 A	transparent	A/B	Pg9 / Pg11	red	type 1	OD01691901OW00	R934004369
230	/	3 A	transparent	A/B	Pg9 / Pg11	red	type 2	OD01691900OZ00	R934004367

Coils - Connectors

CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

CIRCUIT WITH UNIDIRECTIONAL DIODE +LED



Voltage V		Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
AC	DC							
/	12	transparent	A/B	Pg9 / Pg11	red	type 1	OD01691000OB00	R934004365
/	24	transparent	A/B	Pg9 / Pg11	red	type 1	OD01691000OC00	R934004366