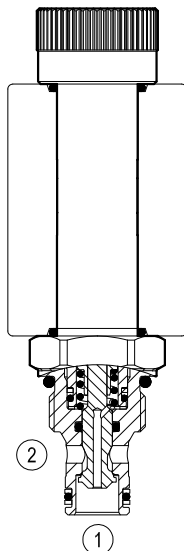


Solenoid operated valves direct acting poppet 2-way double lock normally closed

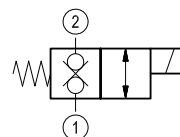
Common cavity, Size 08

VEDT-08A-A-16-NC

OD.11.31.18 - 6Y - 00



Version 31



2T31

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

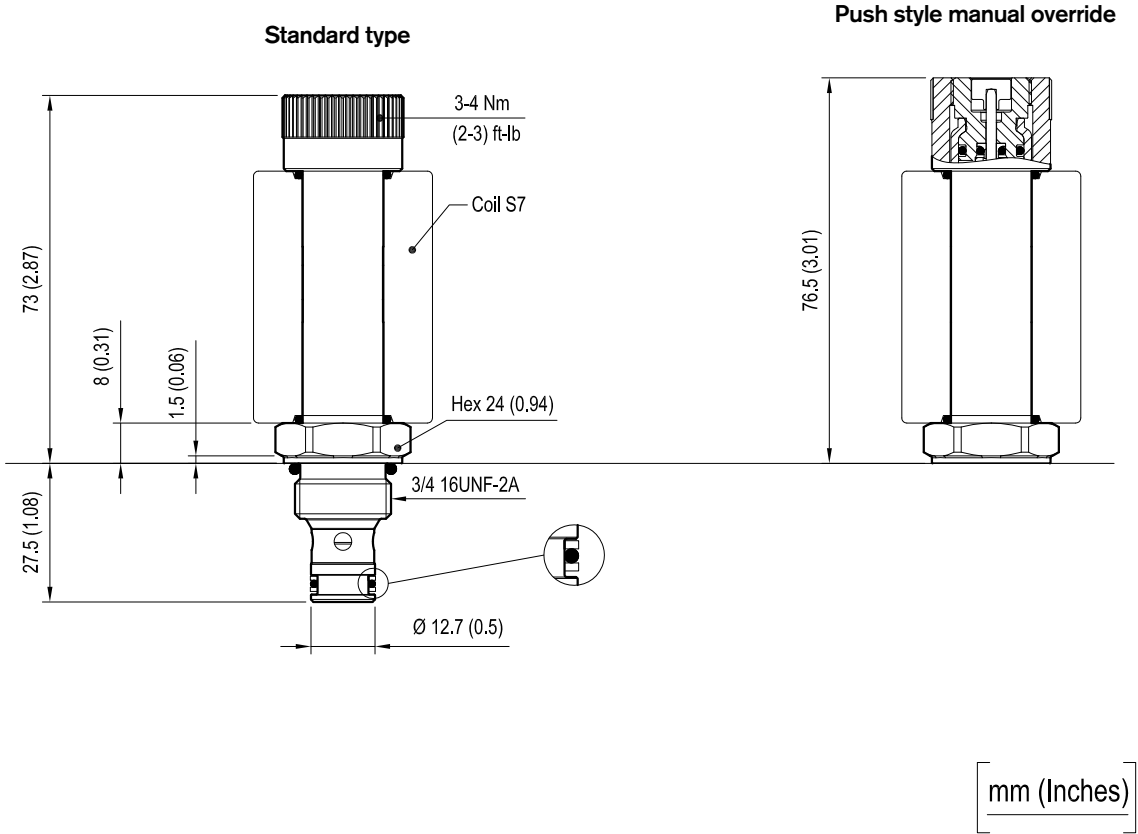
Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W 30 or 26
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 26W -15% +10%
Nominal voltage	coil 30W -10% +10%

Note: Coils must be ordered separately.

All versions available by 12/2010; before 12/2010 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

Dimensions

Solenoid operated valves poppet 2-way double lock normally closed

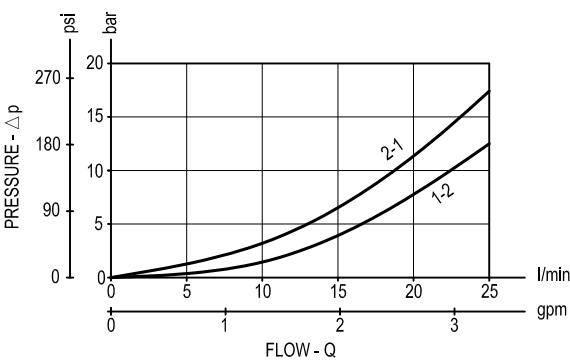
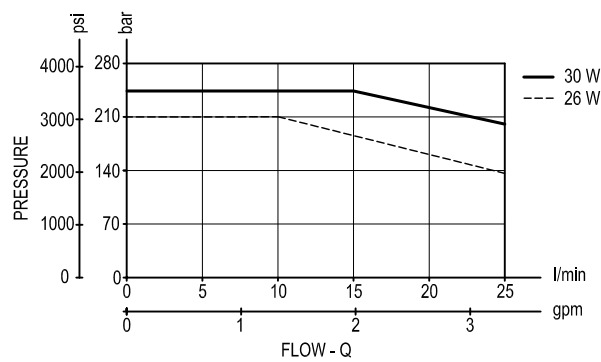


Performance graphs

Performance limits

Characteristic curves

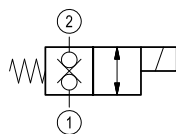
version 31



Ordering code

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

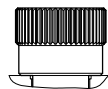


= 31

Common cavity: CA-08A-2N

standard type

6A =



Push style manual override

6B =



All versions available by 12/2010; before 12/2010 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

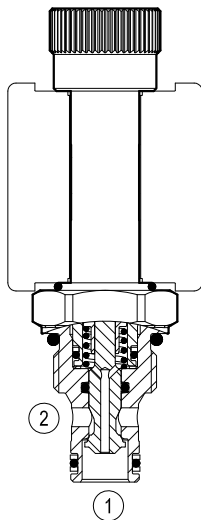
Type	Material number
OD1131186A0000	R934003624
OD1131186B0000	R934003625

Type	Material number

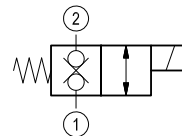
Solenoid operated valves direct acting poppet 2-way double lock normally closed Common cavity, Size 08

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 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.	RG12A1PNBR7010 R934003958
Other technical data	See data sheet RE 18350-50	

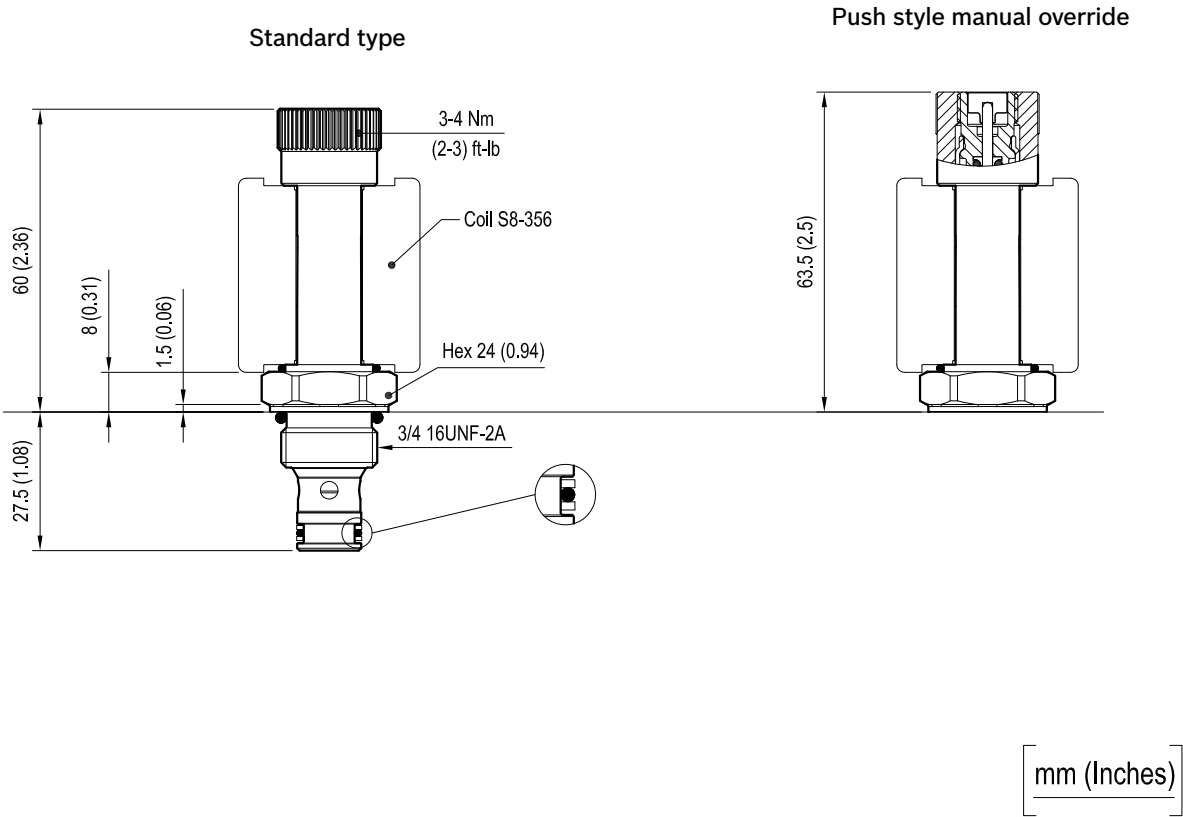
Electrical

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

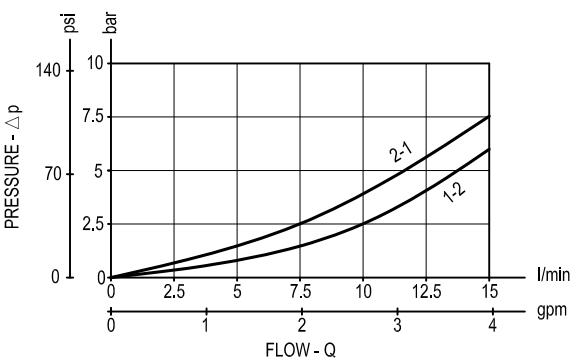
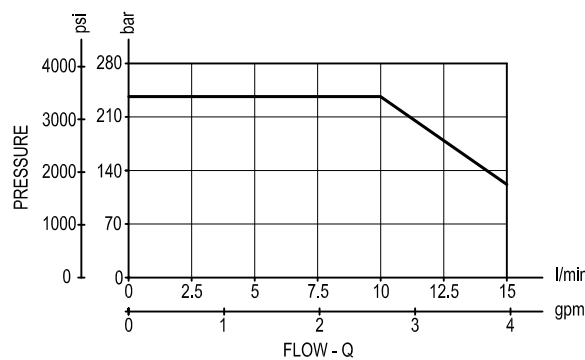


Performance graphs

Performance limits

Characteristic curves

version 31



Ordering code

OD.11

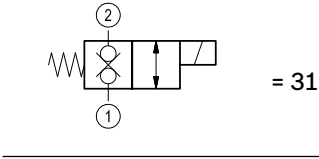
*

18

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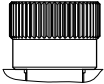
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Solenoid operated valves
poppet 2-way double lock
normally closed




Common cavity: CA-08A-2N

standard type

2A = 

Push style manual override

2B = 

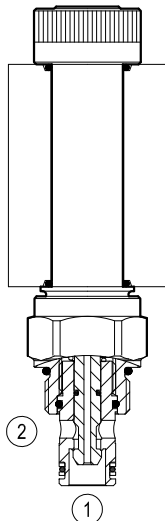
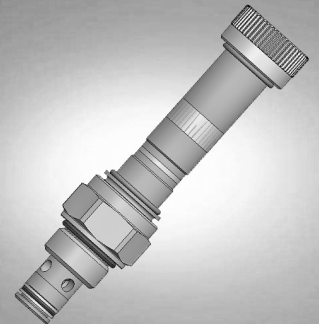
Type	Material number
OD1131182A0000	R934003626
OD1131182B0000	R934003627

Type	Material number

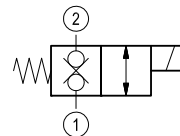
Solenoid operated valves direct acting poppet 2-way double lock normally closed Common cavity, Size 08

VED-7A-2T-06-NC

OD.11.31.18 - Y - 00



Version 31



General

Weight	kg (lbs)	0.18 (0.39)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30 W -30 to 80 (-22 to 176) - coil 26W

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
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)	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 material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data	See data sheet RE 18350-50	

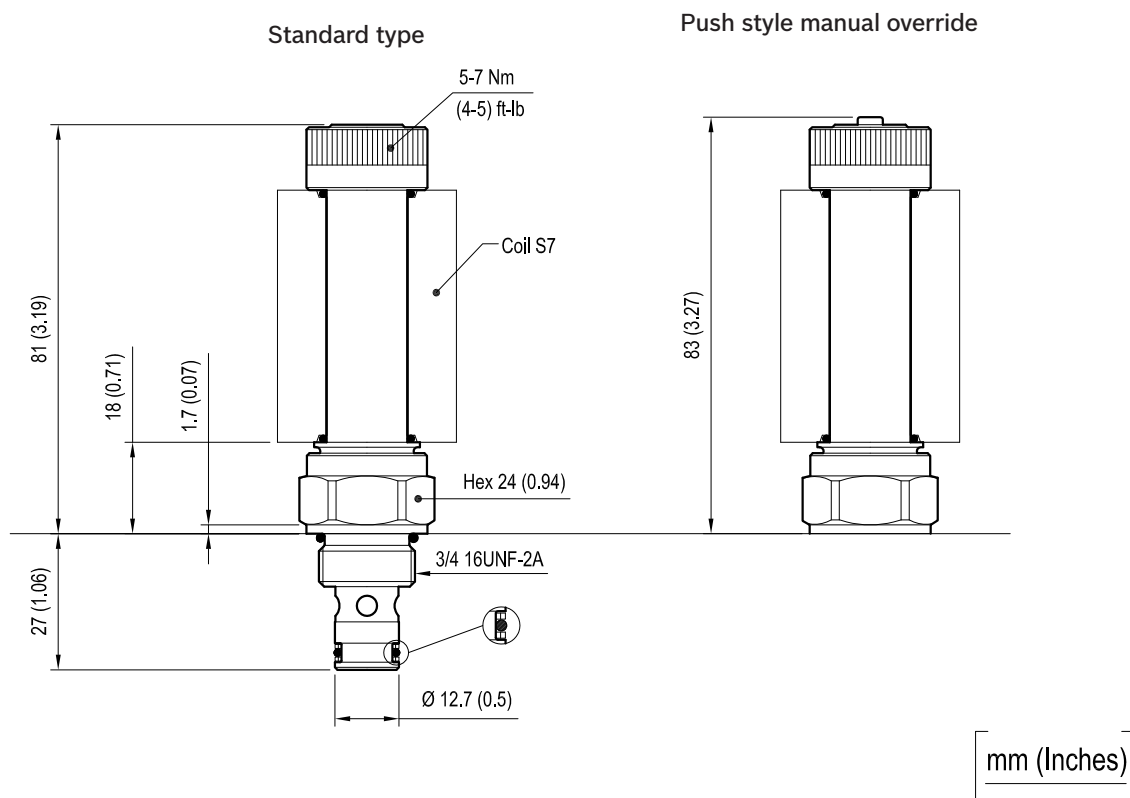
Electrical

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

Note: Coils must be ordered separately.

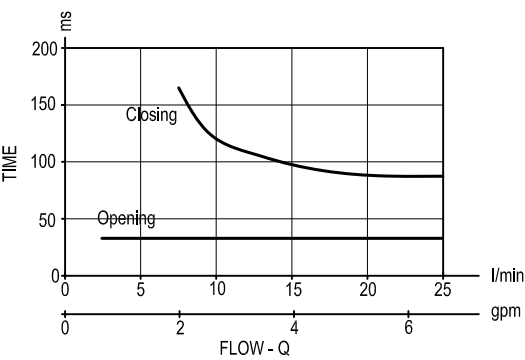
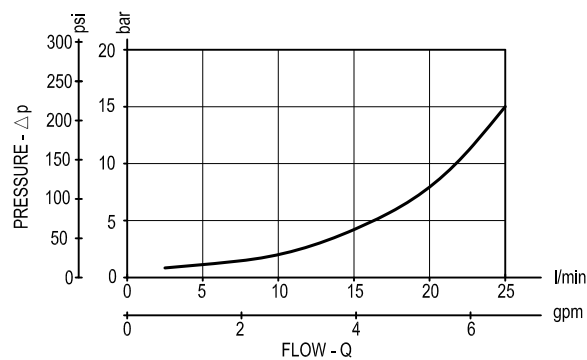
Dimensions

Solenoid operated valves poppet 2-way double lock normally closed



Performance graphs

version 31



Ordering code

OD.11

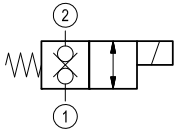
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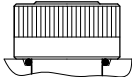
Solenoid operated valves
poppet 2-way double lock
normally closed



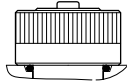
= 31

Common cavity: CA-08A-2N

standard type

50 = 

Push style manual override

51 = 

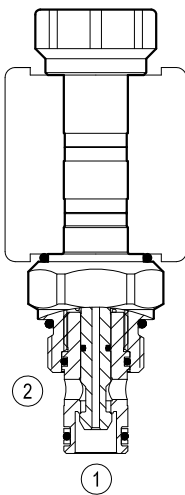
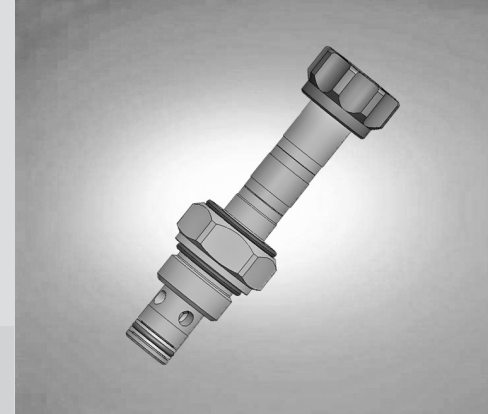
Type	Material number
OD113118500000	R901090920
OD113118510000	R901090921

Type	Material number

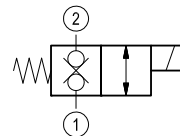
Solenoid operated valves direct acting poppet 2-way double lock normally closed Common cavity, Size 08

VED-8I-2T-06-NC

OD.11.31.18 - Y - 00



Version 31



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)	210 (3000)
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)	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 material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data	See data sheet RE 18350-50	

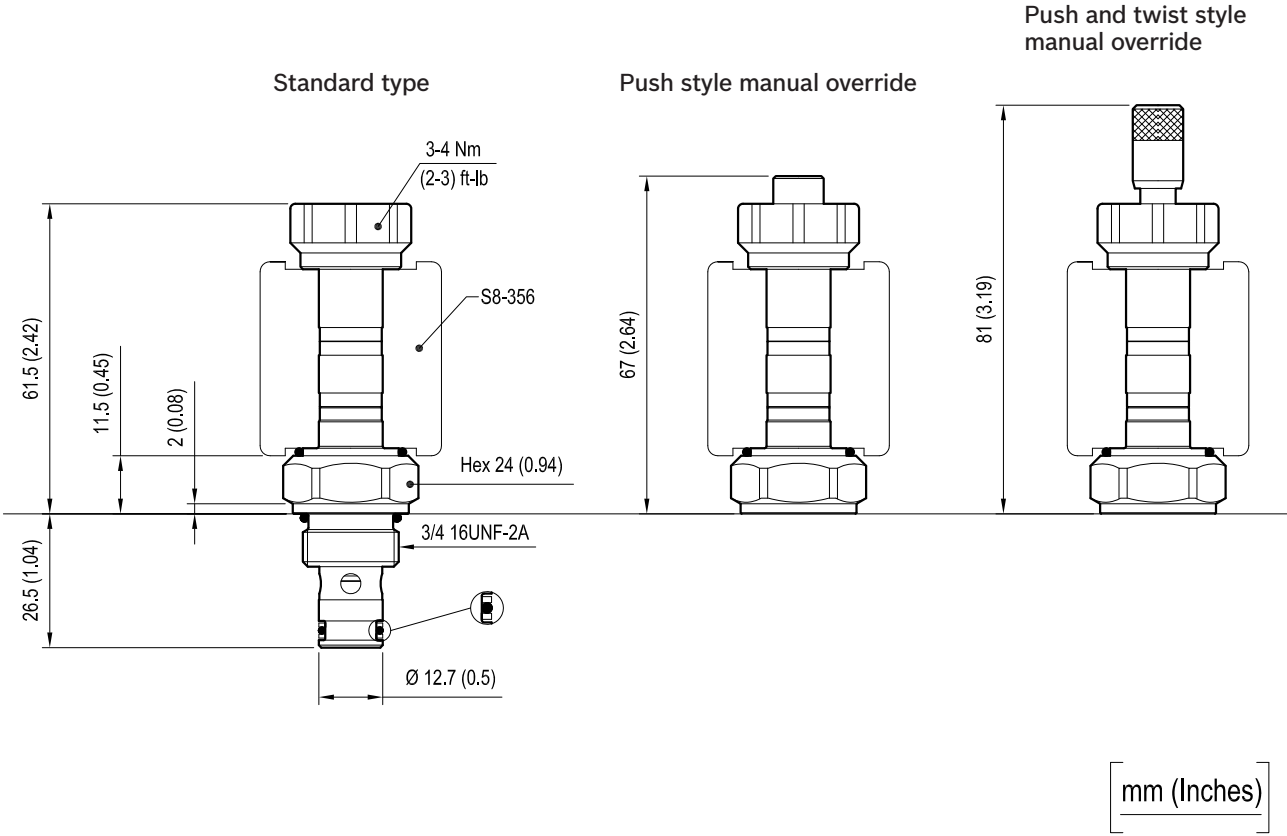
Electrical

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.

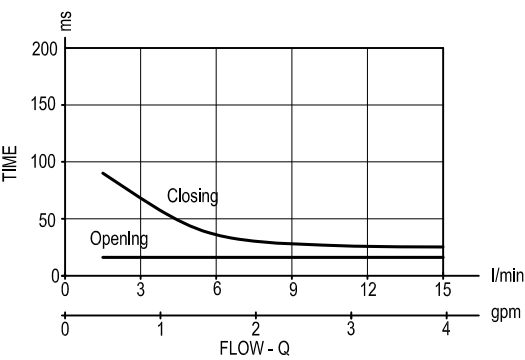
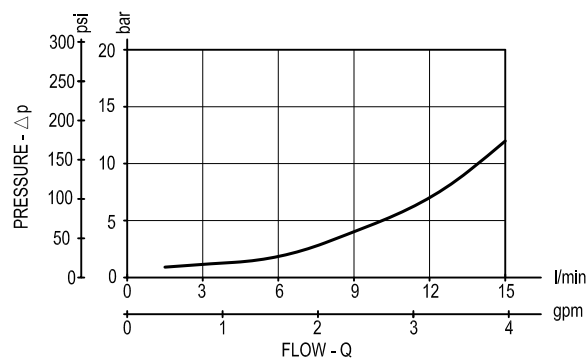
Dimensions

Solenoid operated valves poppet 2-way double lock normally closed



Performance graphs

version 31



Ordering code

OD.11

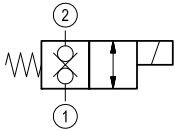
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18

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00

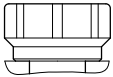
Solenoid operated valves
poppet 2-way double lock
normally closed



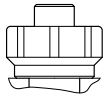
= 31

Common cavity: CA-08A-2N

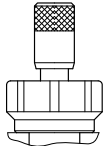
standard type

14 = 

Push style manual override

15 = 

Push and twist style manual override

16 = 

Type	Material number
OD113118140000	R901090917
OD113118150000	R901090918
OD113118160000	R901090919

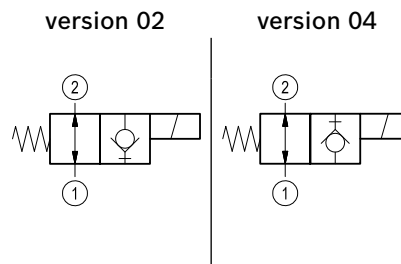
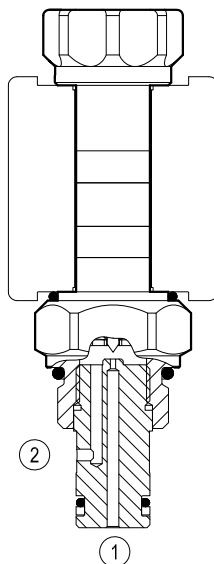
Type	Material number

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	
Common 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

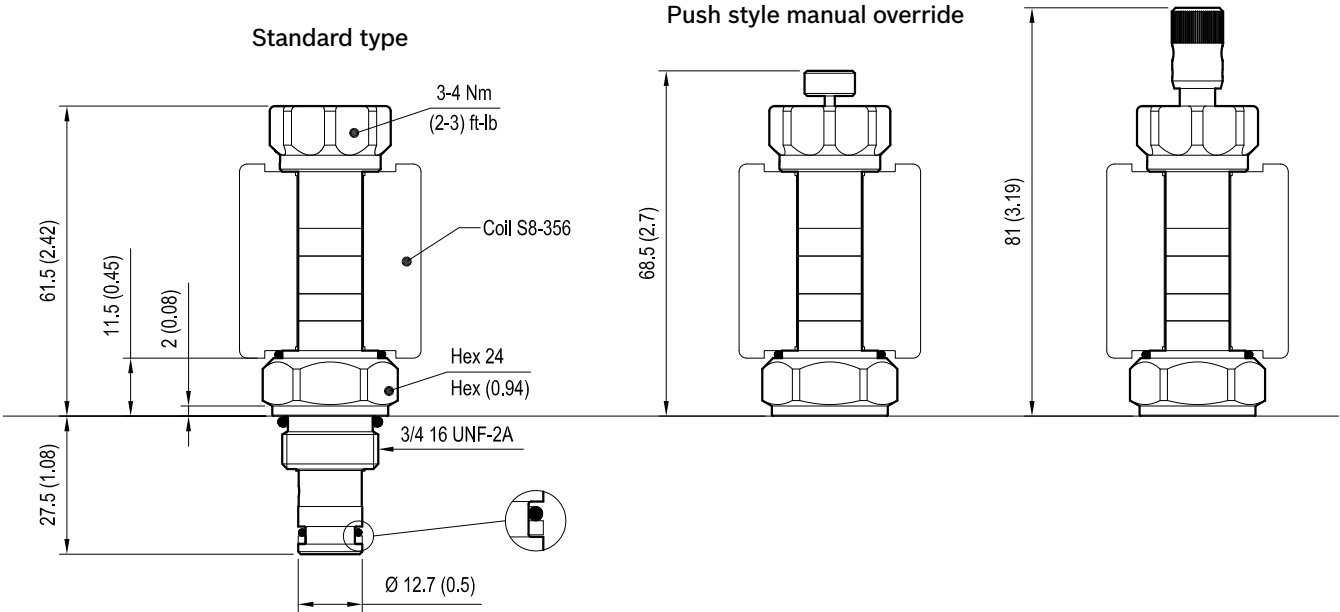
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

Solenoid operated valves poppet 2-way normally open

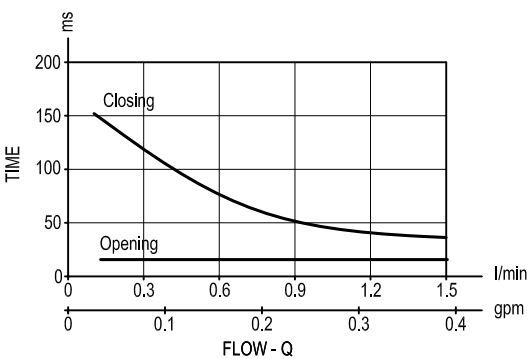
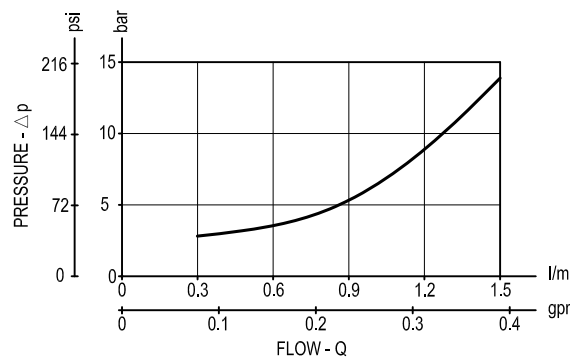
Push and twist style manual override



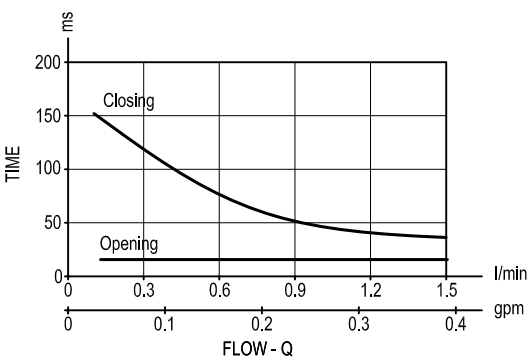
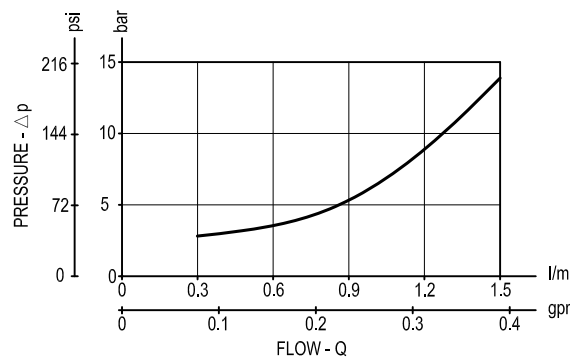
mm (Inches)

Performance graphs

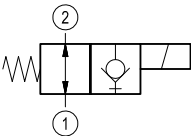
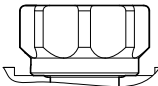
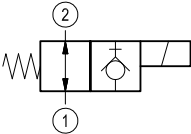
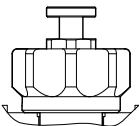
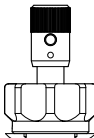
Version 02



Version 04



Ordering code

OD.11	*	18	*	00
<p>Solenoid operated valves poppet type 2-way normally open</p>				
 <p>= 02</p>		<p>standard type</p> <p>20 = </p>		
 <p>= 04</p>		<p>Push style manual override</p> <p>21 = </p>		
		<p>Push and twist style manual override</p> <p>22 = </p>		
<p>Common cavity: CA-08A-2N</p>				

Type	Material number
OD110218200000	R901090905
OD110218210000	R901090906
OD110218220000	R901090908
OD110418200000	R901090911
OD110418210000	R901090914
OD110418220000	R901090915

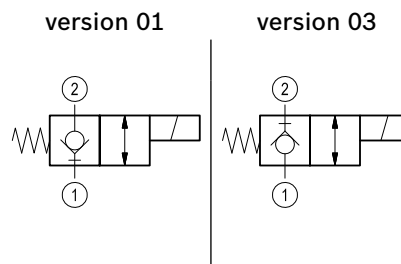
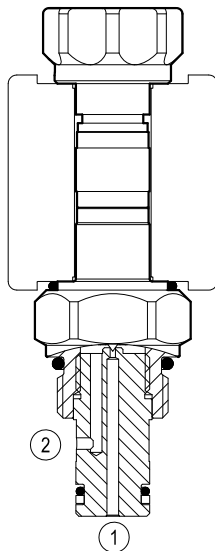
[illegible]

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

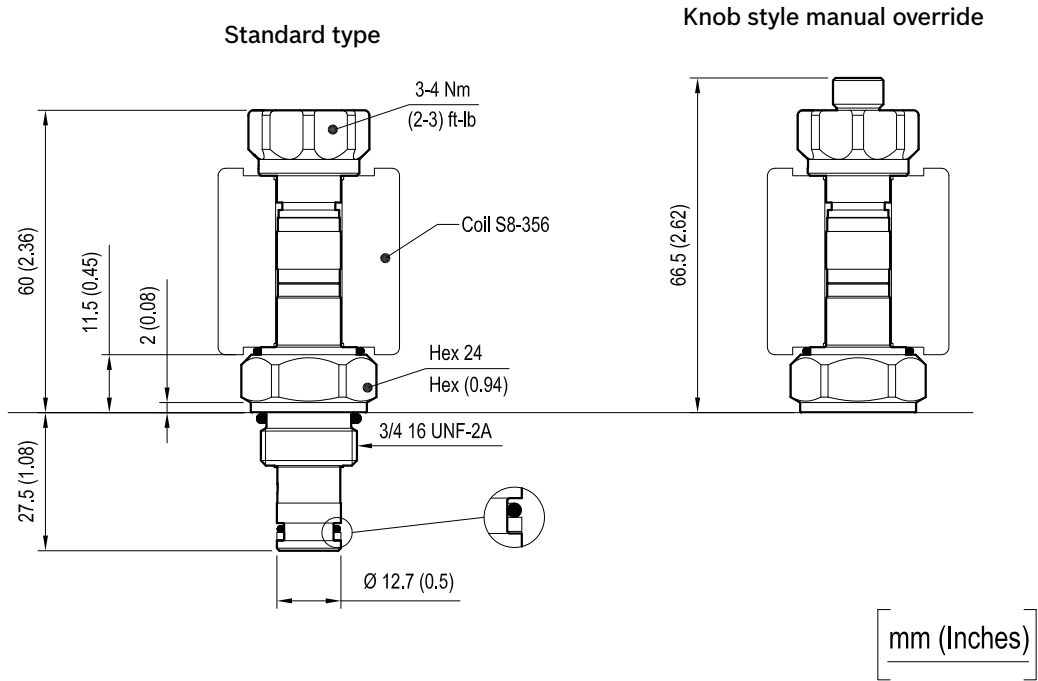
Electrical

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.

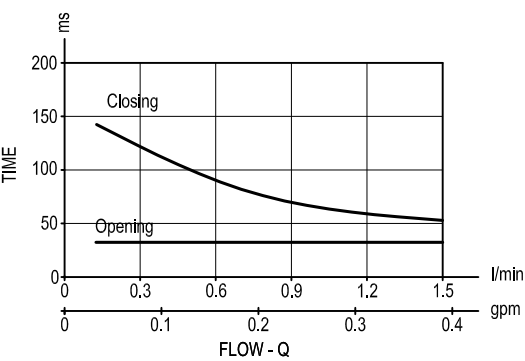
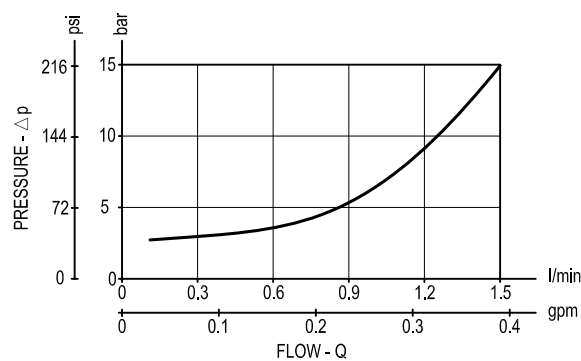
Dimensions

Solenoid operated valves poppet 2-way normally closed

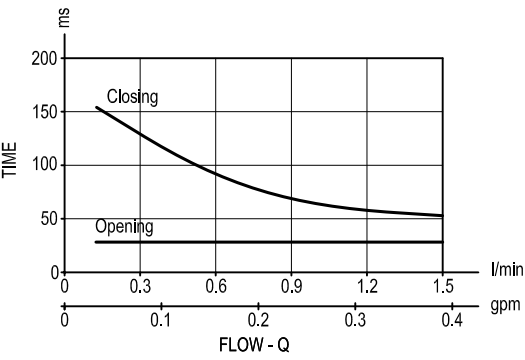
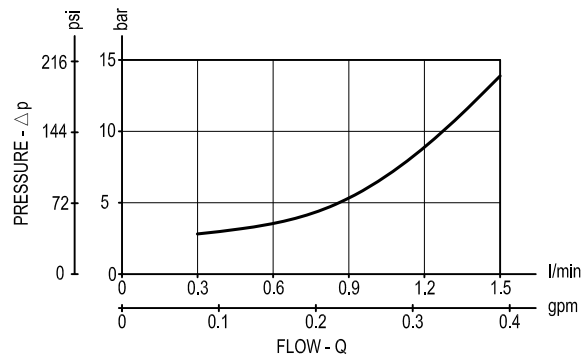


Performance graph

Version 01



Version 03



Ordering code

OD.11

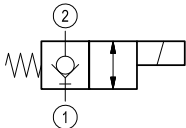
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18

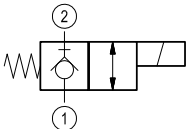
*

00

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
OD110118310000	R901090901
OD110118320000	R901090903
OD110318310000	R901090909
OD110318320000	R901090910

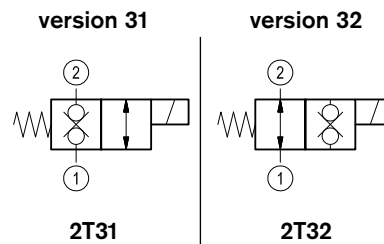
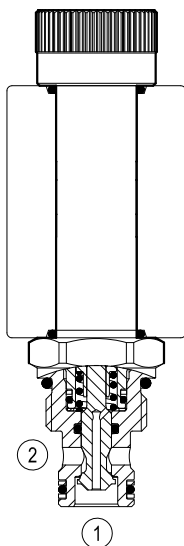
Type	Material number

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

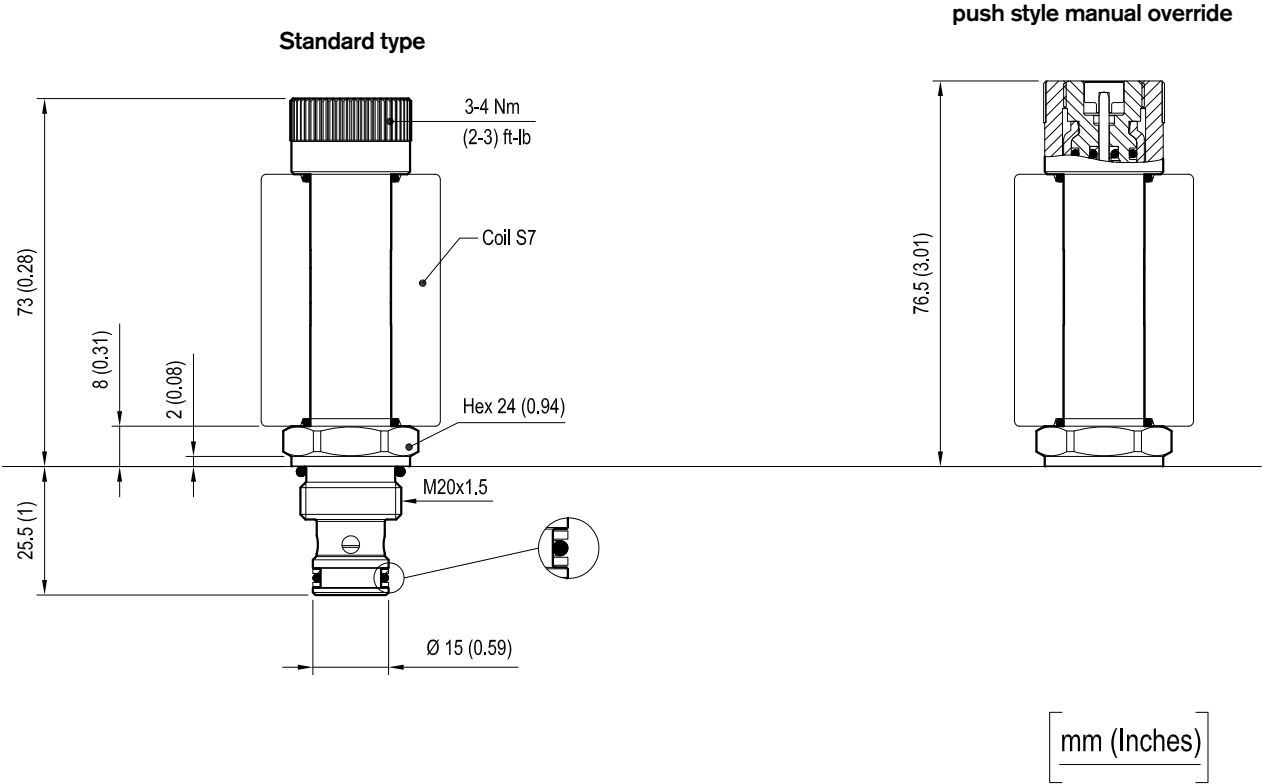
Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W 30 or 26
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 26W -15% +10%
Nominal voltage	coil 30W -10% +10%

Note: Coils must be ordered separately.

All versions available by 12/2010; before 12/2010 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

Dimensions

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

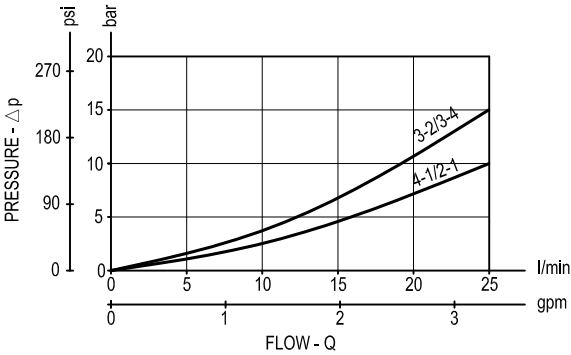
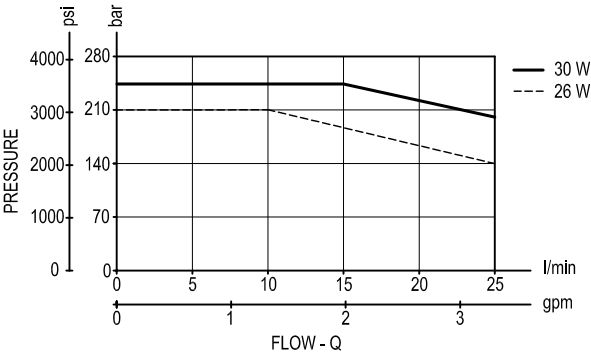


Performance graphs

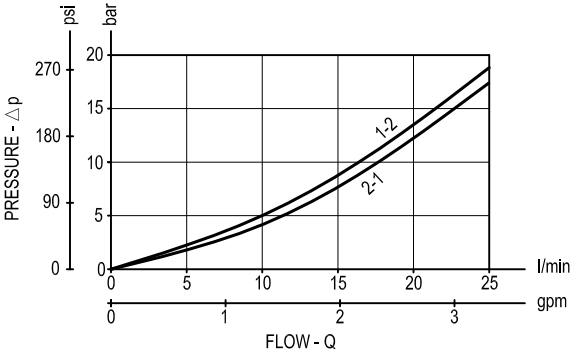
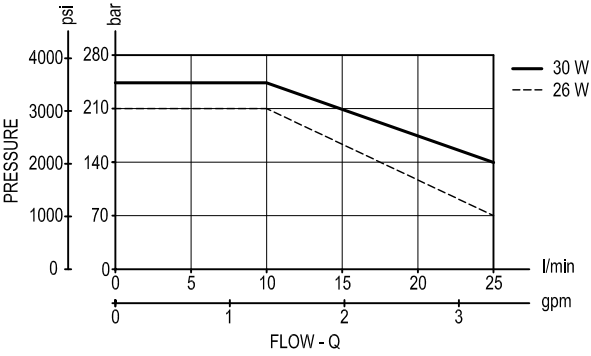
Performance limits

Characteristic curves

version 31 (NC)



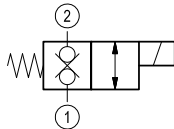
version 32 (NA)



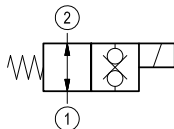
Ordering code

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



= 31

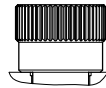


= 32

Special cavity: CA-08F-2N

standard type

6A =



Push style manual override

6B =



All versions available by 12/2010; before 12/2010 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

Type	Material number
OD1131406A0000	R934003630
OD1131406B0000	R934003631
OD1132406A0000	R934003628
OD1132406B0000	R934003629

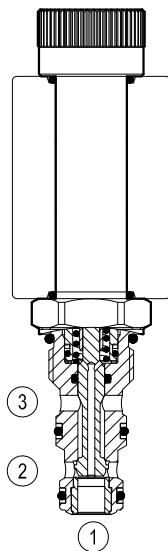
[illegible]

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

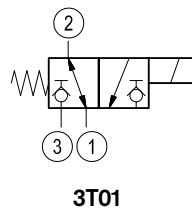
Common cavity, Size 08

VEDT-08A-32

OD.13.01.51 - Y - 00



Version 01



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

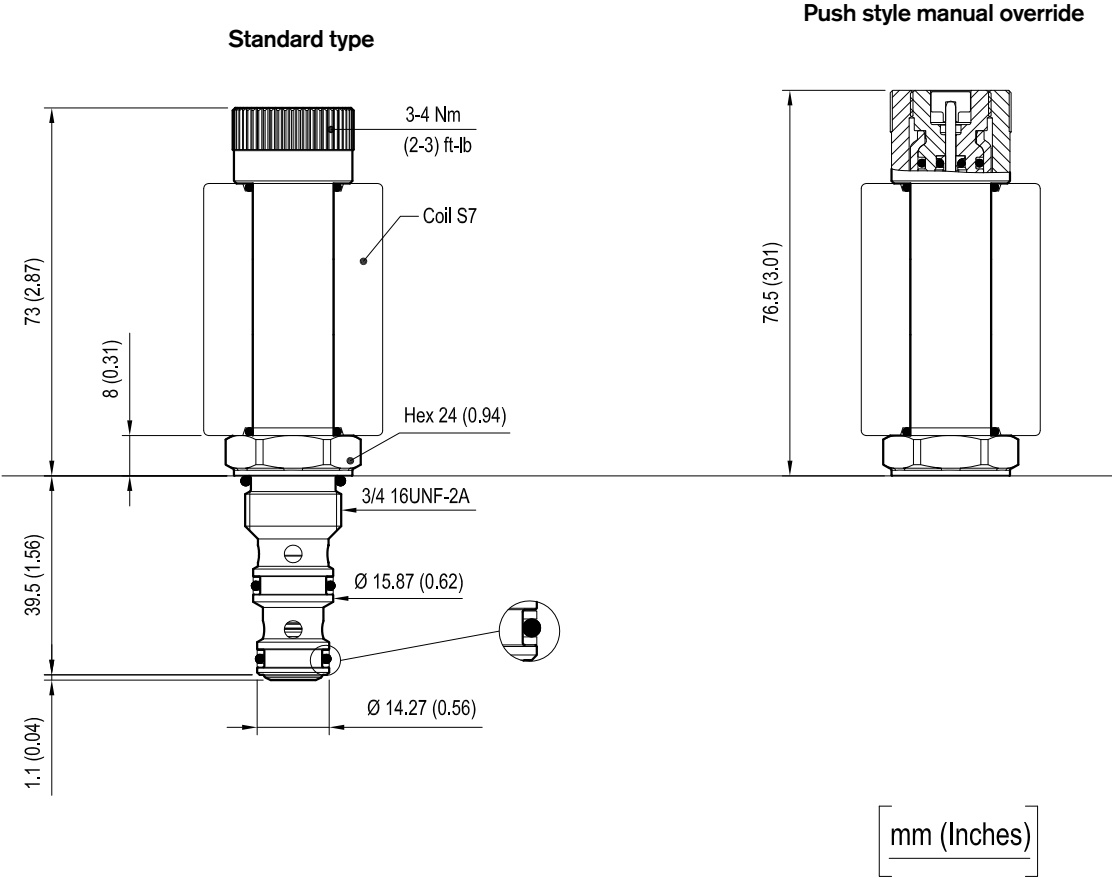
Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W 30 or 26
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 26W -10% +15%
Nominal voltage	coil 30W -10% +10%

Note: Coils must be ordered separately.

All versions available by 09/2010; before 09/2010 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

Dimensions

Solenoid operated valves poppet 3-way 2-position

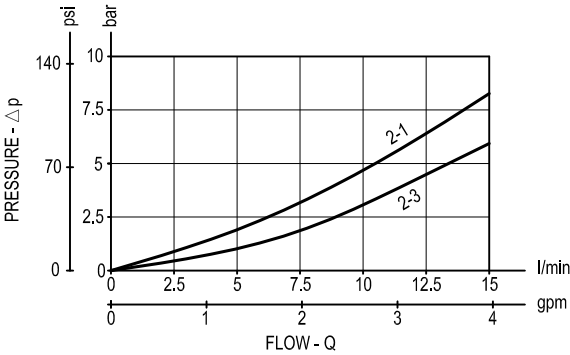
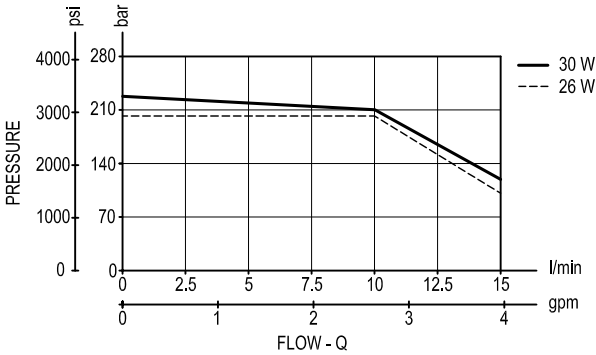


Performance graphs

Performance limits

Characteristic curves

version 01



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 =

All versions available by 09/2010; before 09/2010 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

Type	Material number
OD1301516A0000	R934003667
OD1301516B0000	R934003666

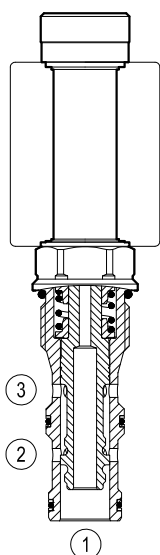
Type	Material number

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

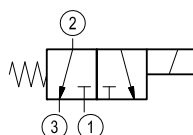
Common cavity, Size 12

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 (*)	cm³/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 material no.	RG12A3010520100 R930000941
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data	See data sheet RE 18350-50	

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

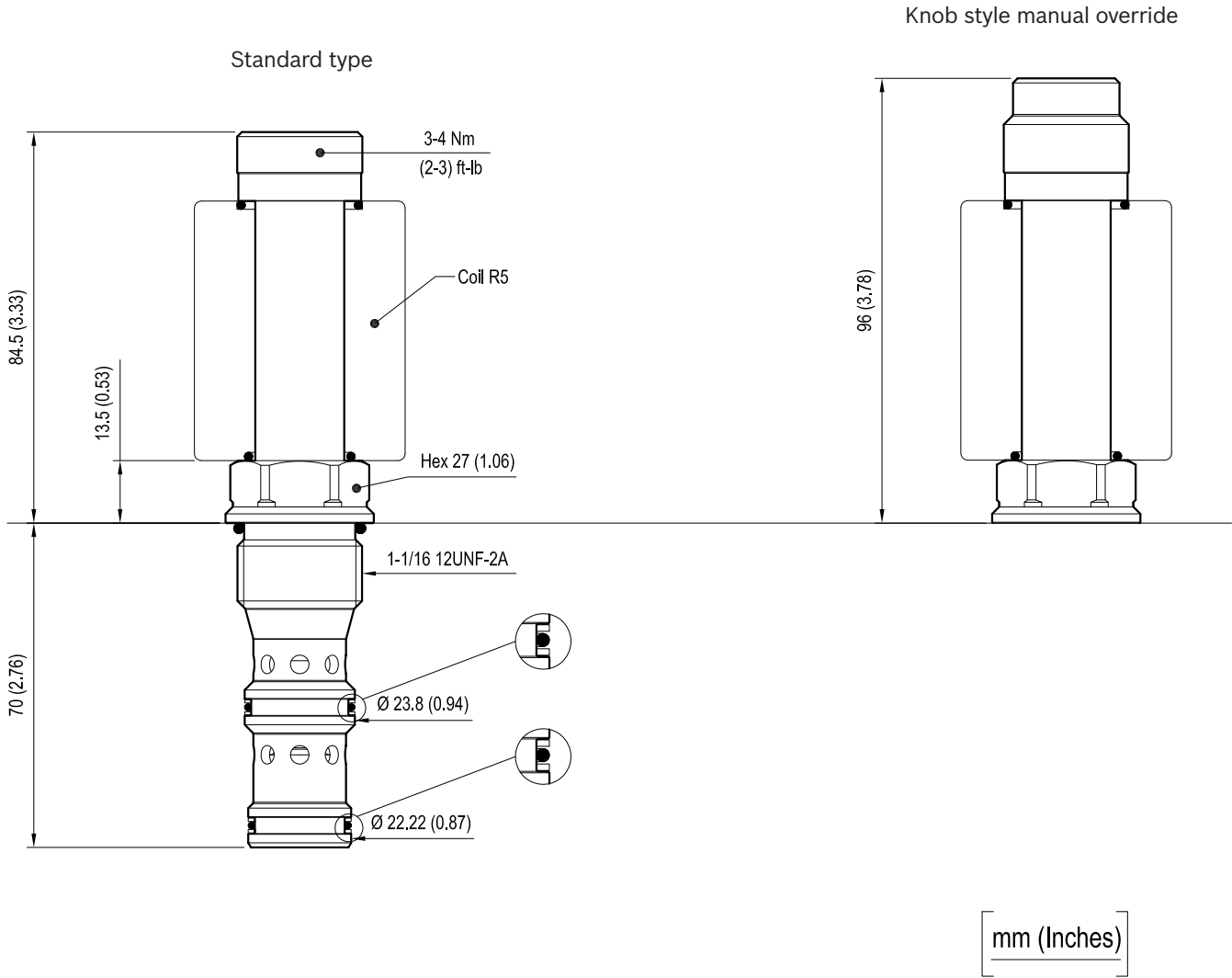
Electrical

Type of voltage	DC voltage
Coil type	R5
Supply voltage	See data sheet RE 18325-90
Power consumption	W 33
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.

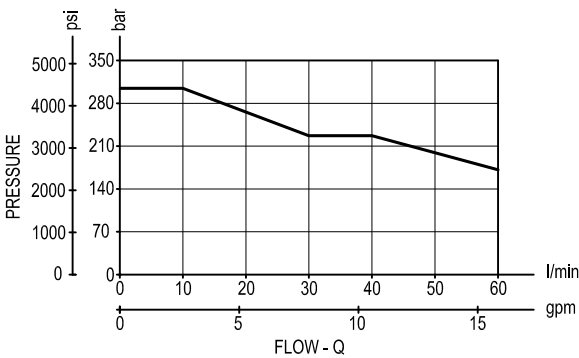
Dimensions

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

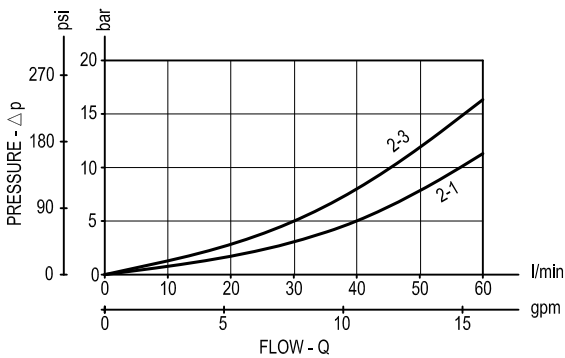


Performance graphs

Performance limits



Characteristic curves



Ordering code

OD.13

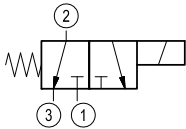
*

12

*

00


Solenoid operated valves
spool 3-way 2-position



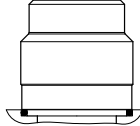
= 10

Common cavity: CA-12A-3N

Standard type

1A = 

Knob style manual override

1B = 

Type	Material number
OD1310121A0000	R934003616
OD1310121B0000	R934003620

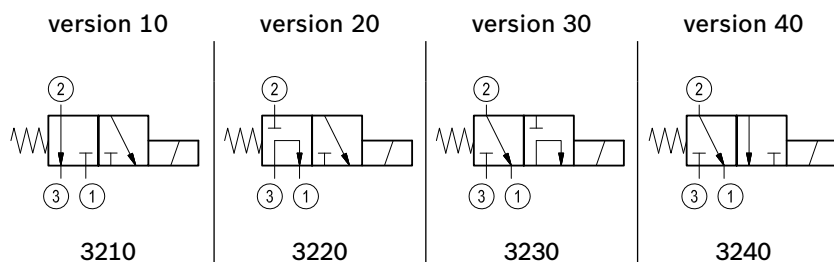
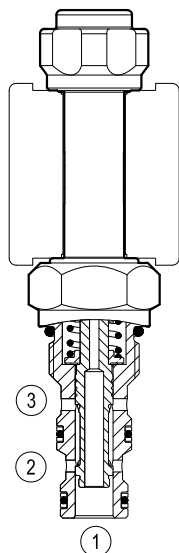
Type	Material number

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 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.	RG08A301053010 R901101723
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)		

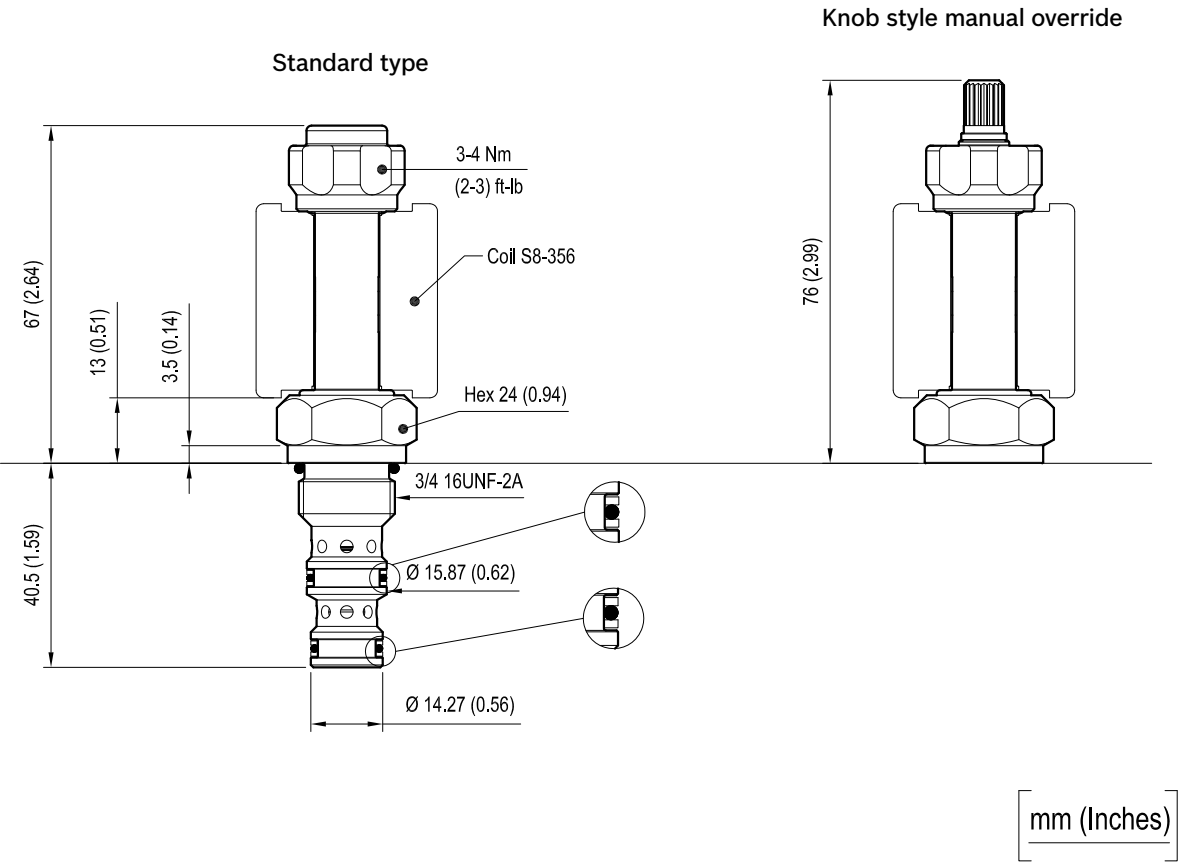
Electrical

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.	

All versions available by 03/2012; before 03/2012 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

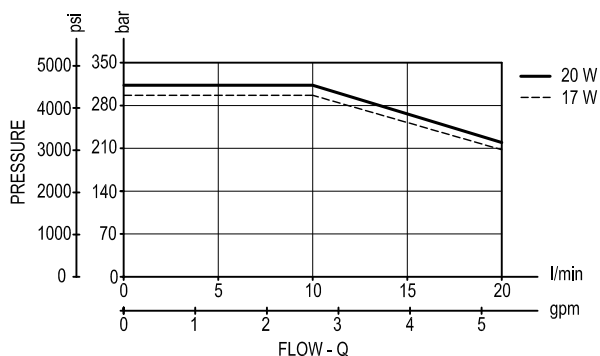
Dimensions

Solenoid operated valve, spool 3-way 2-position



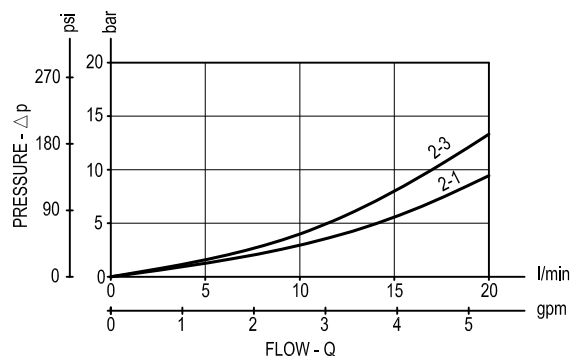
Performance graph

Performance limits

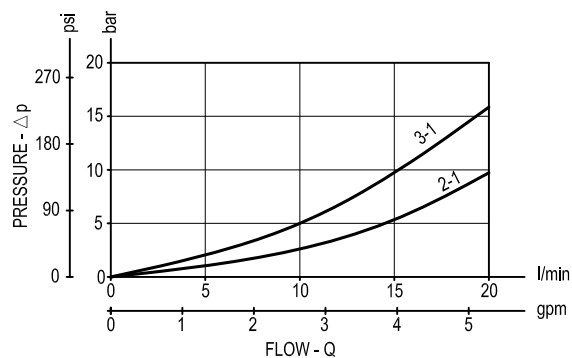
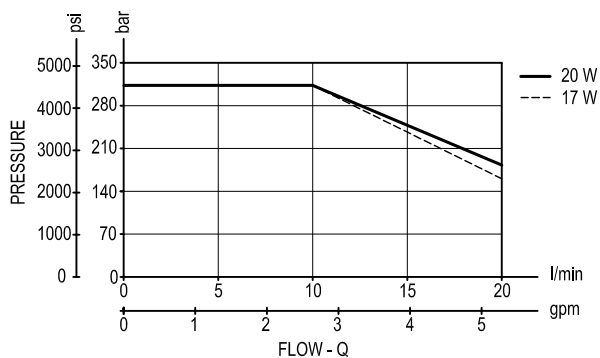


Version 10

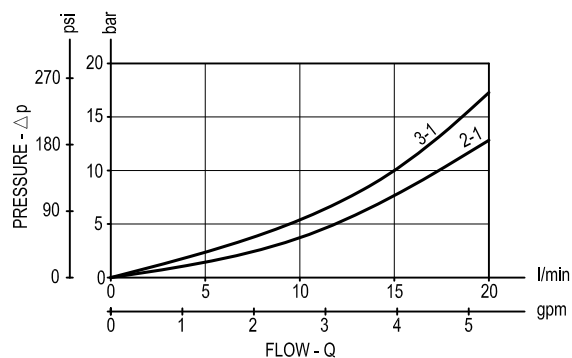
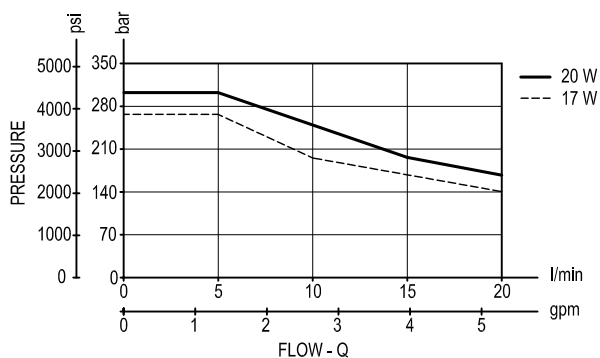
Characteristic curves



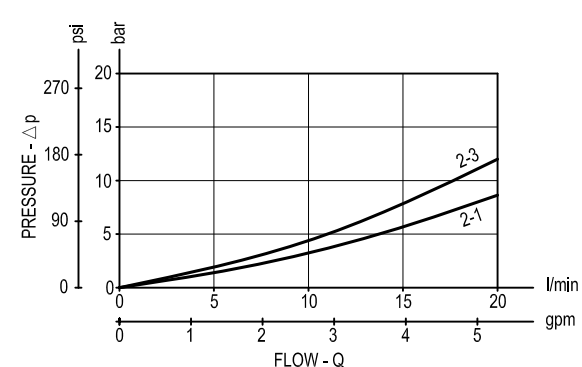
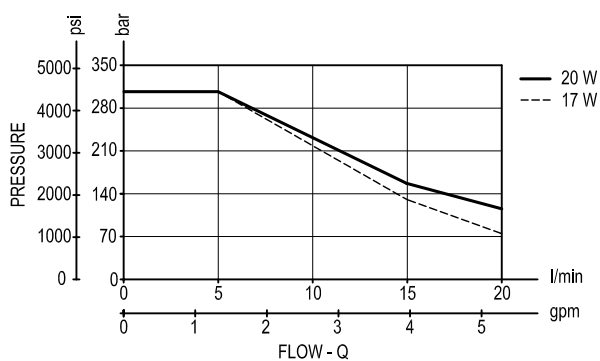
Version 20



Version 30

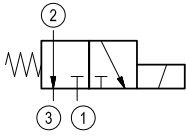
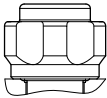
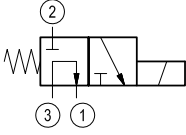
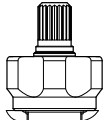
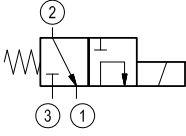
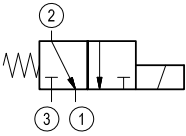


Version 40



Ordering code

OD.13	*	51	*	00
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Solenoid operated valves spool 3-way 2-position				
 = 10			standard type	1A = 
 = 20			knob style manual override	1B = 
 = 30				
 = 40			Common cavity: CA-08A-3N	

All versions available by 03/2012; before 03/2012 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

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

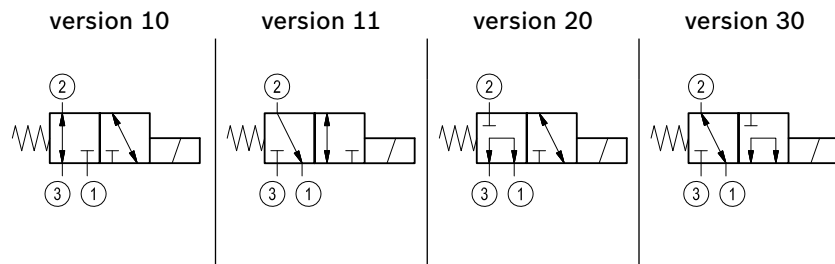
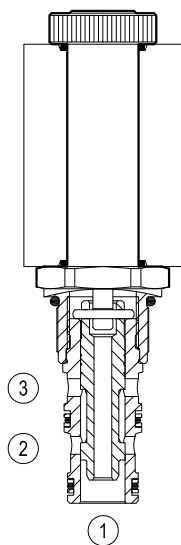
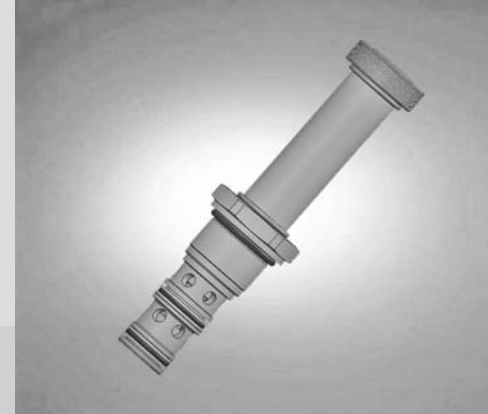
Type	Material number

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 (*)	cm³/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 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 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)

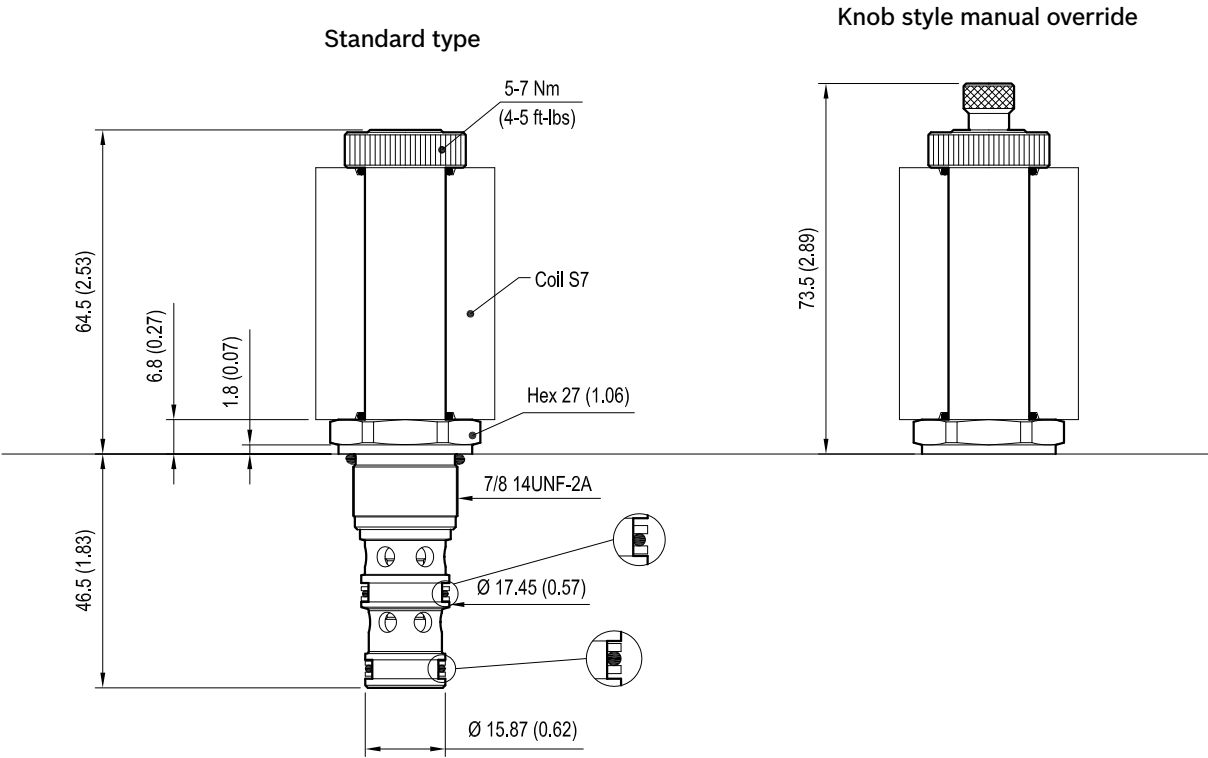
Electrical

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%

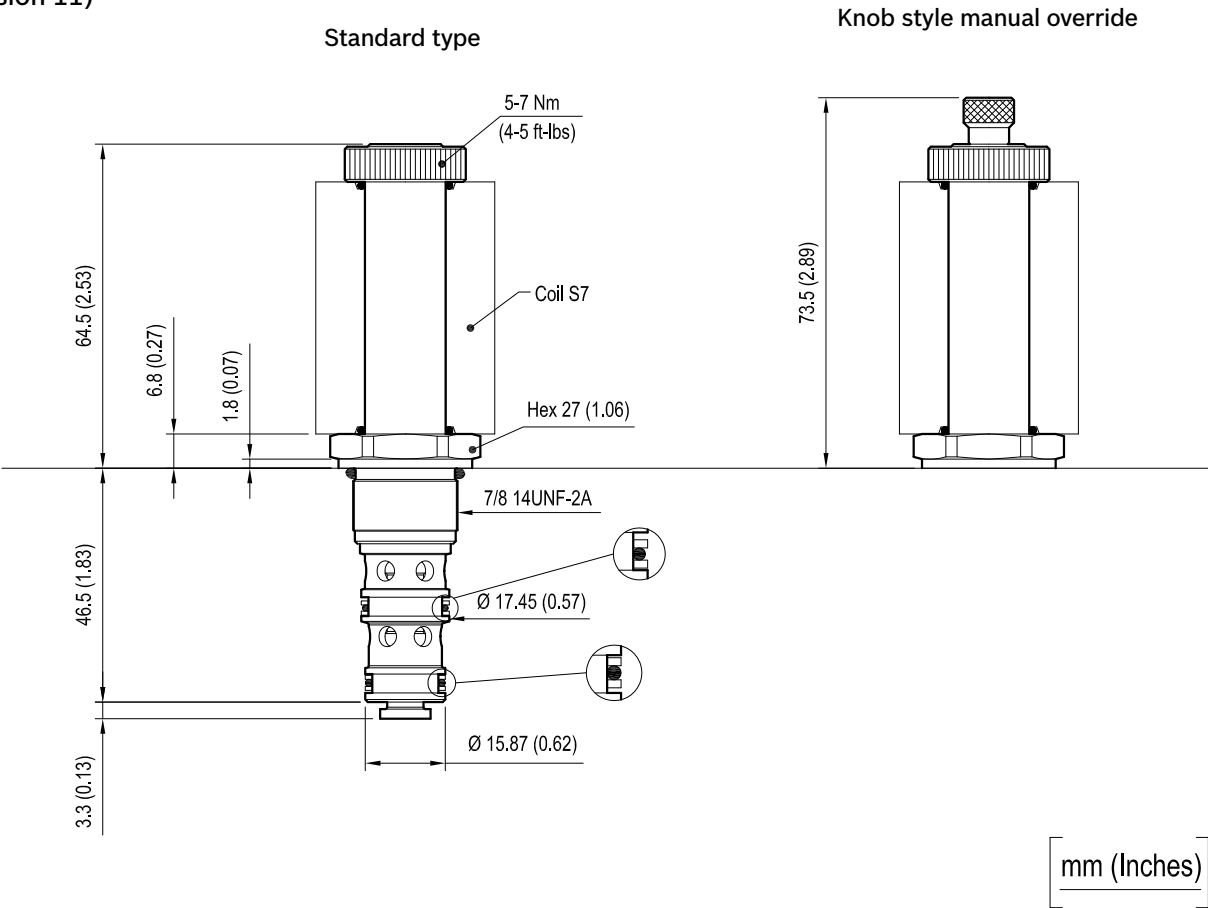
Note: Coils must be ordered separately.

Dimensions

Solenoid operated valve, spool 3-way 2-position



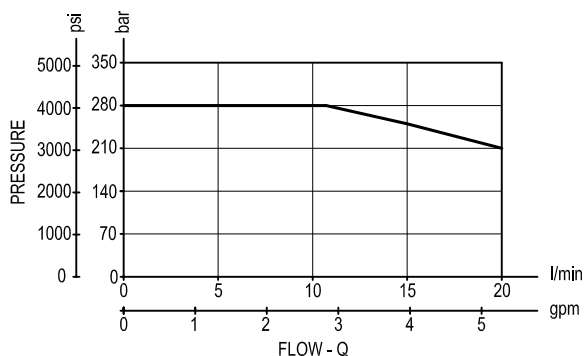
(only version 11)



mm (Inches)

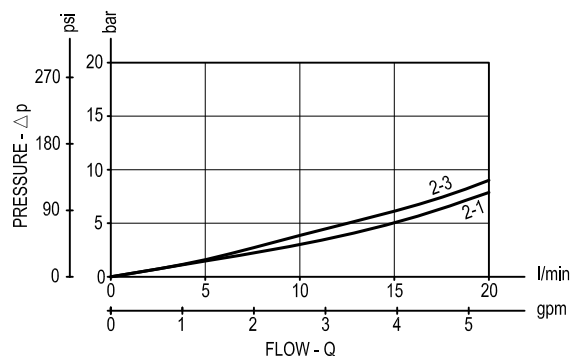
Performance graphs

Performance limits
(Hot coil at nominal voltage)

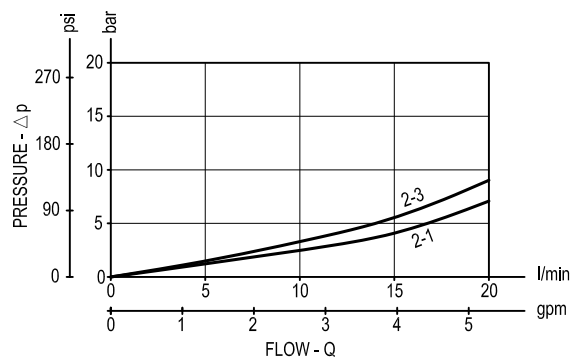
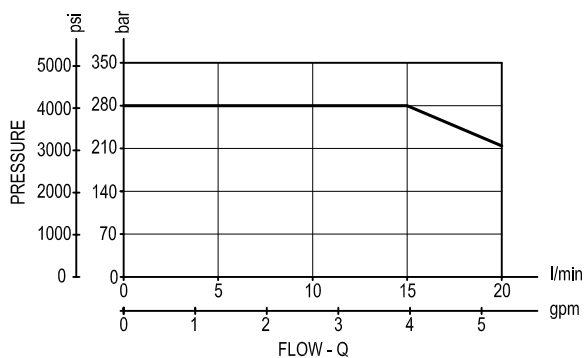


Version 10

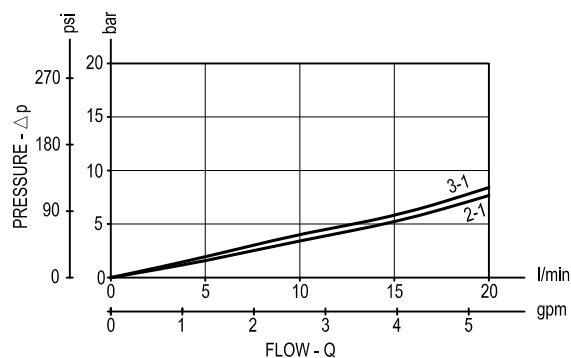
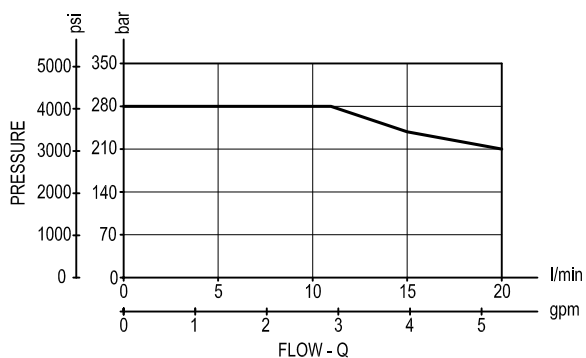
Characteristic curves



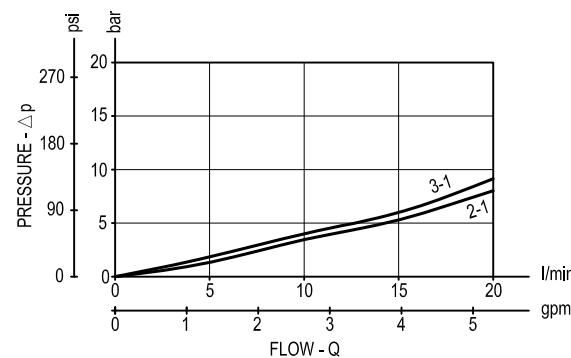
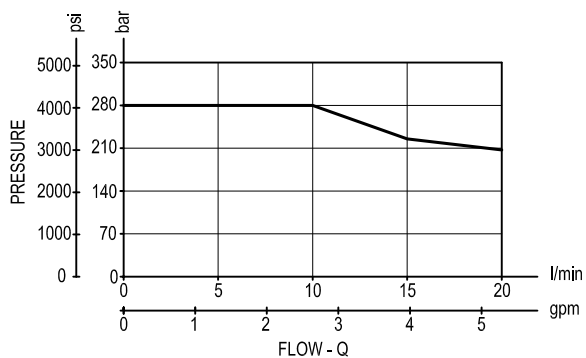
Version 11



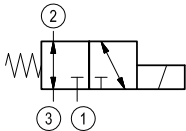
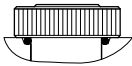
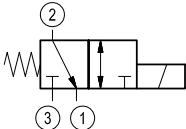
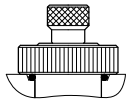
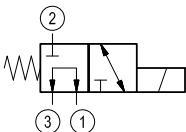
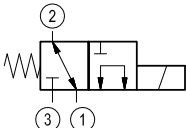
Version 20



Version 30



Ordering code

OD.13		*	77	*	00
Solenoid operated valves spool 4-way 2 position					
	= 10				standard type 70 = 
	= 11				Knob style manual override 71 = 
	= 20				
	= 30				Common cavity: CA-10A-3N

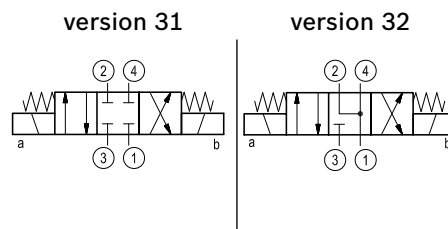
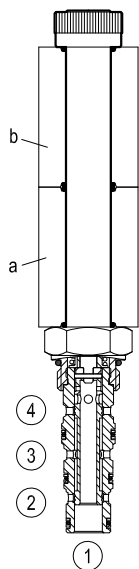
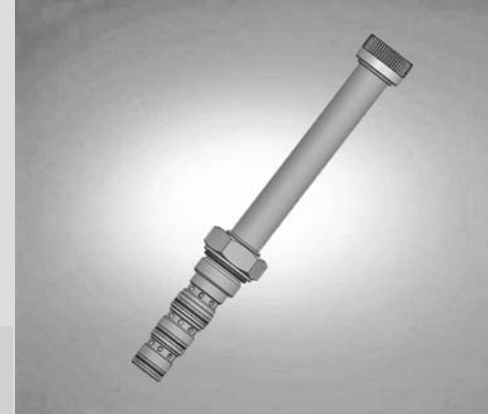
Type	Material number	Type	Material number
OD131077700000	R901113689		
OD131077710000	R901113687		
OD131177700000	R901125116		
OD131177710000	R901126890		
OD132077700000	R901113690		
OD132077710000	R901113692		
OD133077700000	R901115704		
OD133077710000	R901126898		

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 (*)	cm³/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 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-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)

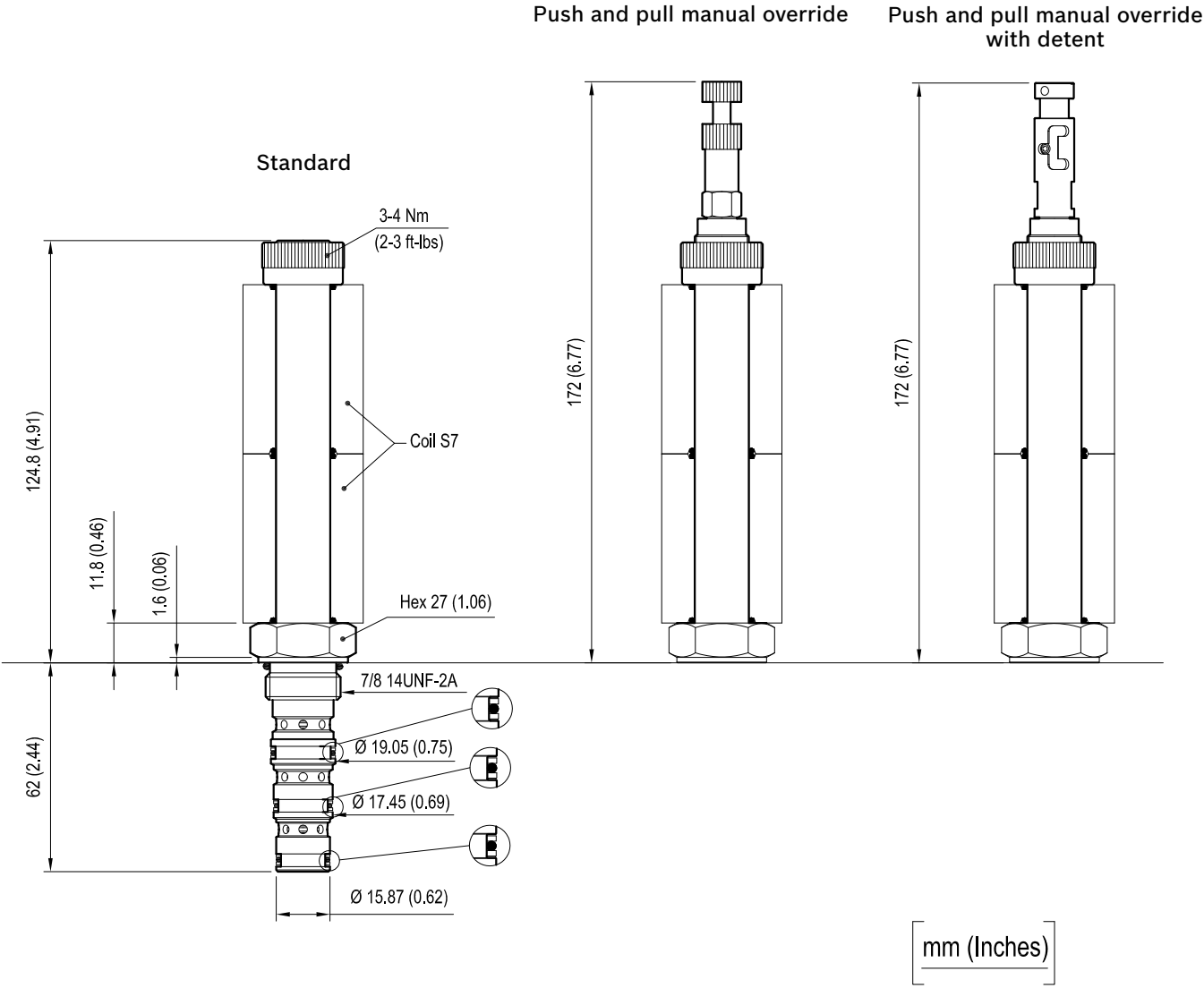
Electrical

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.

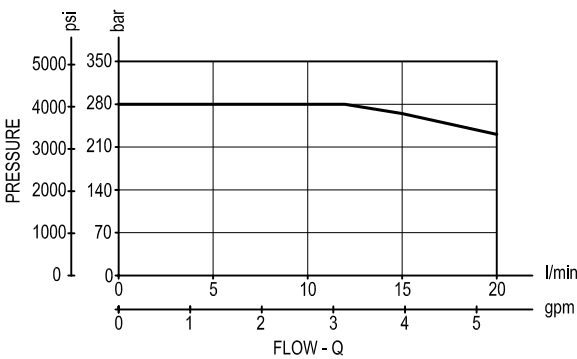
Dimensions

Solenoid operated valves spool 4-way 3-position



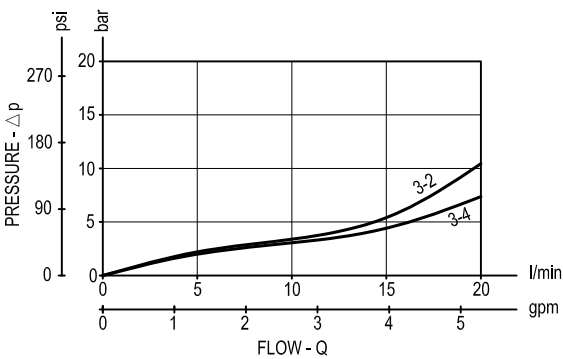
Performance graphs

Performance limits
(Hot coil at nominal voltage)

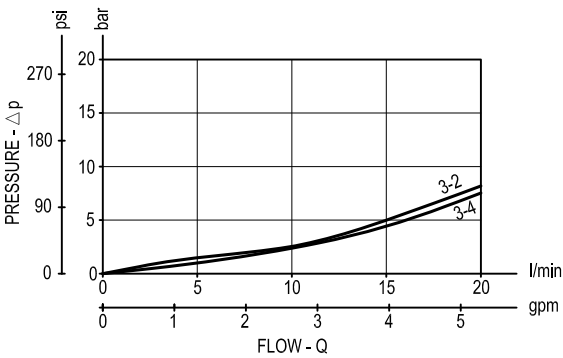
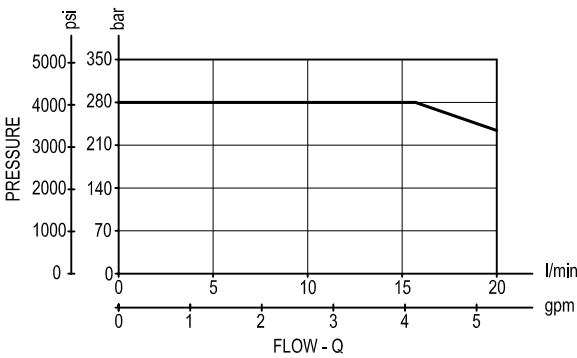


Version 31

Characteristic curves

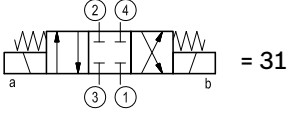
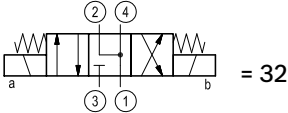
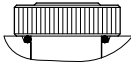
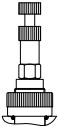
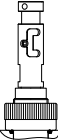


Version 32



Ordering code

OD.14	*	78	*	00
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<div>Solenoid operated valves spool 4-way 3 position</div> <div>  </div>		
<div>  </div>		
<div>Common cavity: CA-10A-4N</div>		<div>standard type</div> <div>80 = </div> <div>push and pull manual override</div> <div>81 = </div> <div>push and pull manual override with detent</div> <div>82 = </div>

Type	Material number
OD143178800000	R901113701
OD143178810000	R901113703
OD143178820000	R934000642
OD143278800000	R901113706
OD143278810000	R901126908
OD143278820000	R934000651

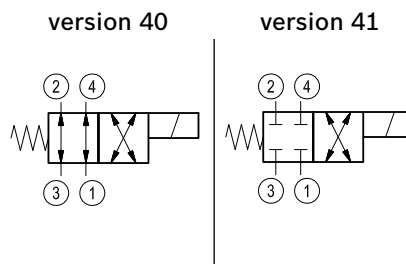
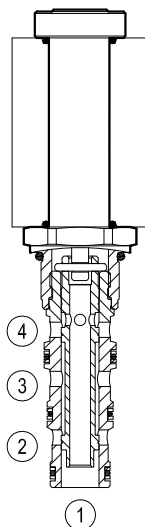
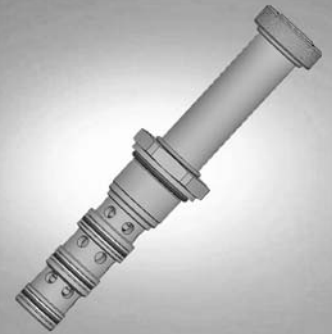
Type	Material number

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)

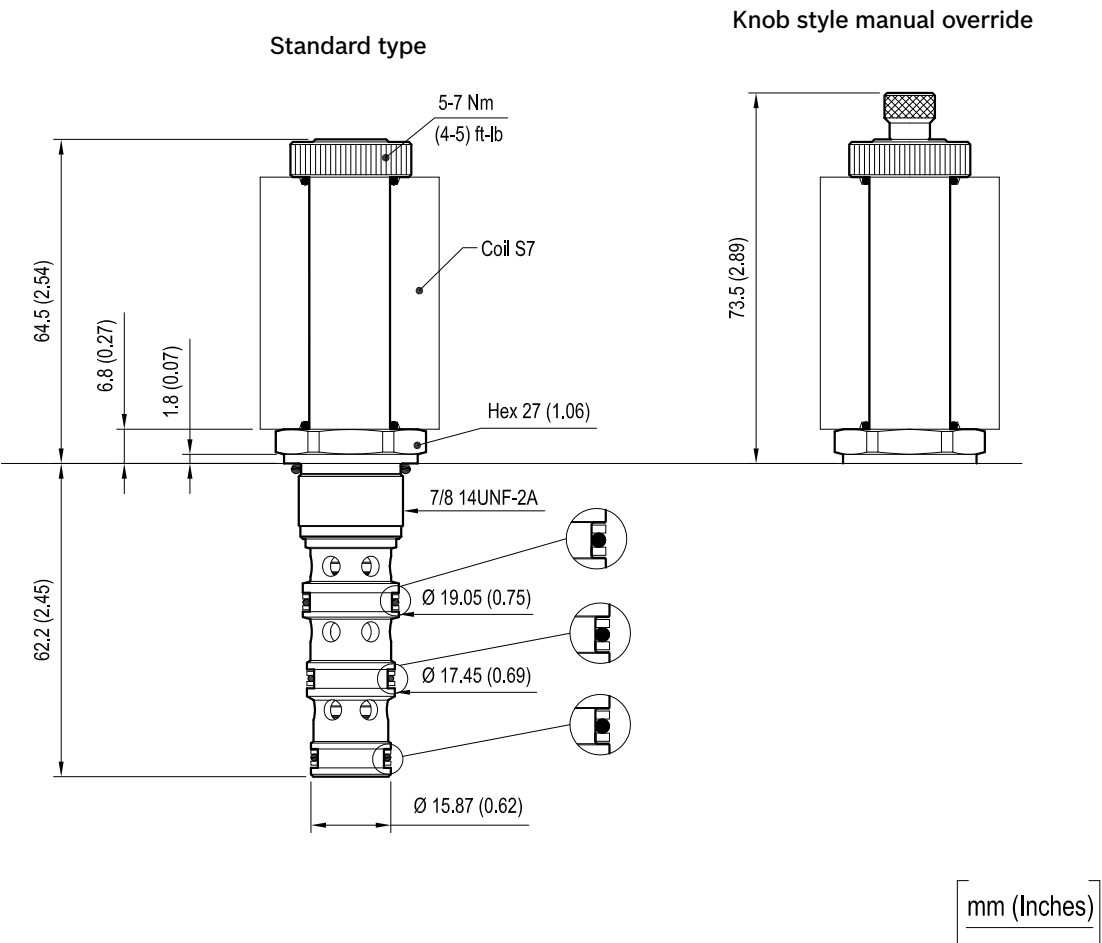
Electrical

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.

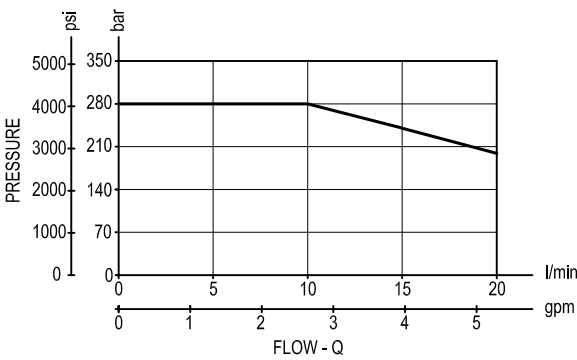
Dimensions

Solenoid operated valve, spool 4-way 2-position



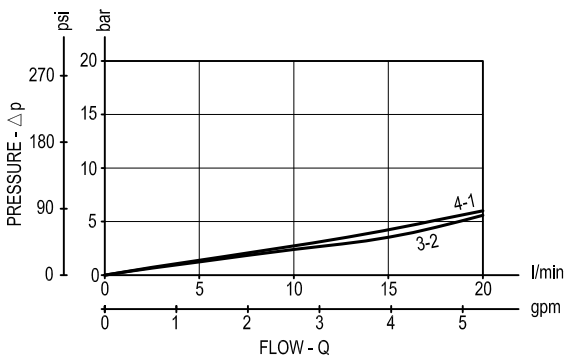
Performance graphs

Performance limits
(Hot coil at nominal voltage)

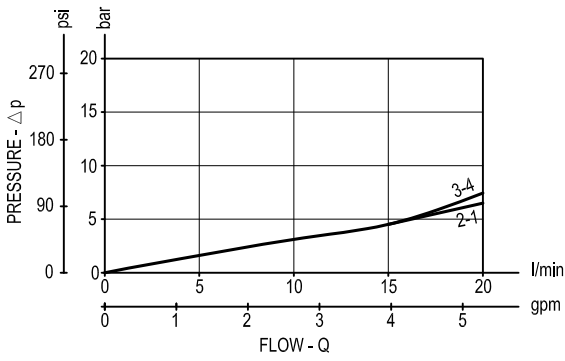
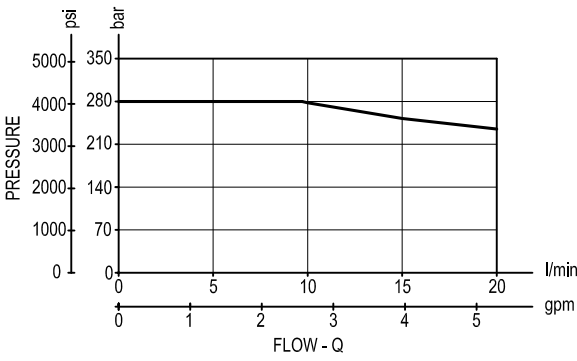


Version 40

Characteristic curves



Version 41



Ordering code

OD.14

*

78

*

00

Solenoid operated valves
spool 4-way 2 position

= 40

= 41

standard type

70 =

Knob style manual override

71 =

Common cavity: CA-10A-4N

Type	Material number
OD144078700000	R901113695
OD144078710000	R901113699
OD144178700000	R901126906

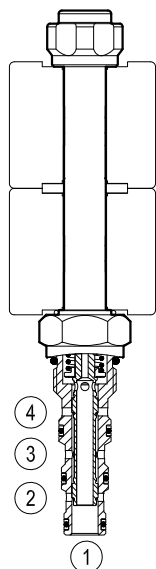
Type	Material number

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

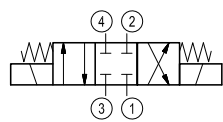
Common cavity, Size 08

VEDS-08A-43

OD.14 - X - 58.2A.00

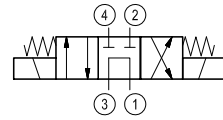


version 10



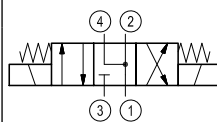
4310

version 60



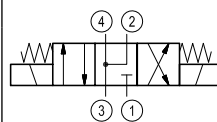
4360

version 20



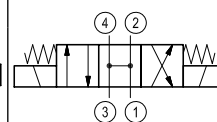
4320

version 30



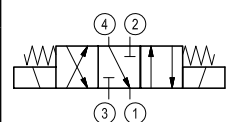
4330

version 40



4340

version 50



4350

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

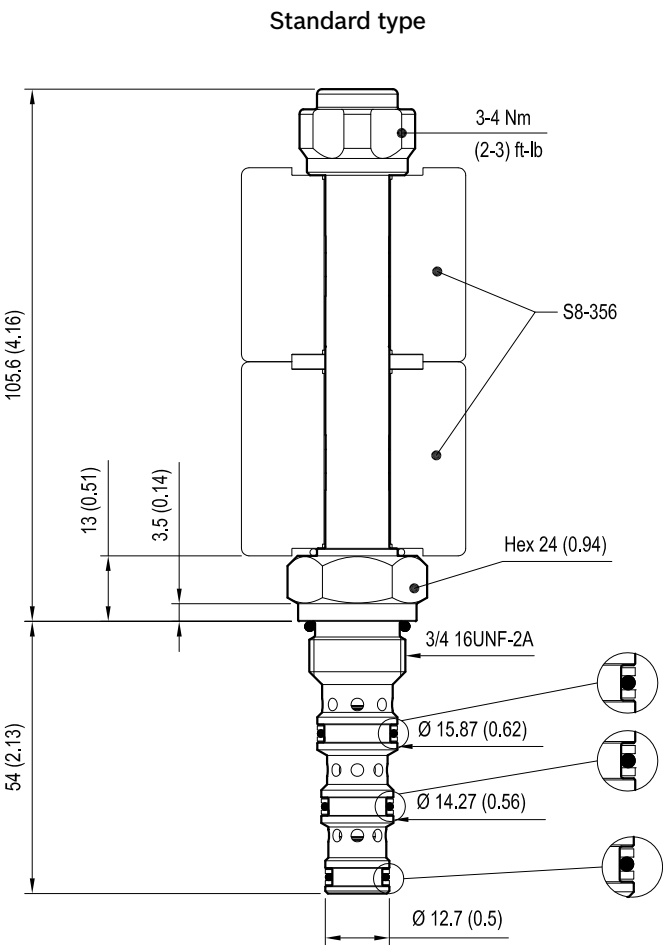
Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Power consumption	W 20 or 17
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 20W	-15% +10%
Nominal voltage coil 17W	-15% +15%

Note: Coils must be ordered separately.

All versions available by 03/2012; before 03/2012 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

Dimensions

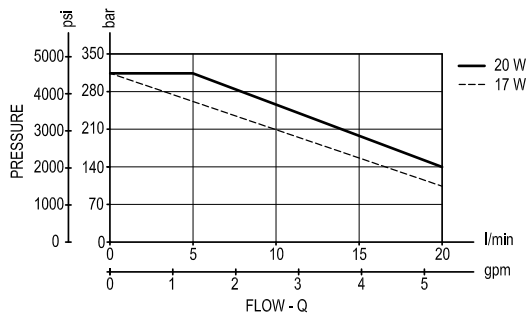
Solenoid operated valve, spool 4-way 3-position



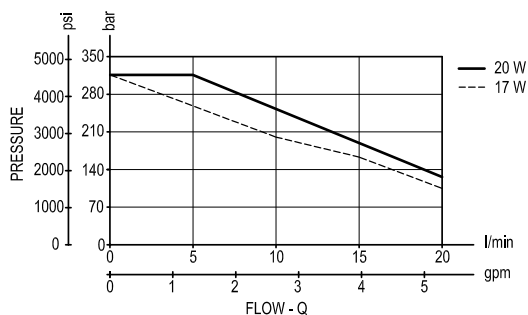
mm (Inches)

Performance graphs

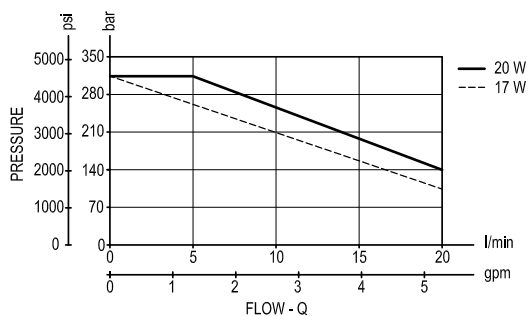
Performance limits



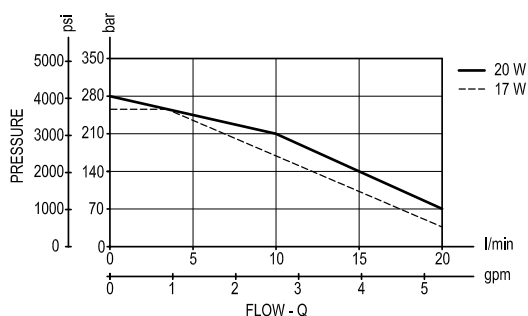
version 10



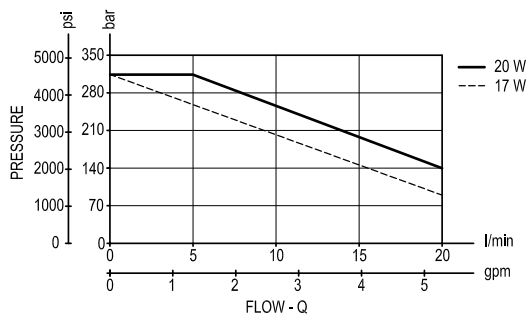
version 20



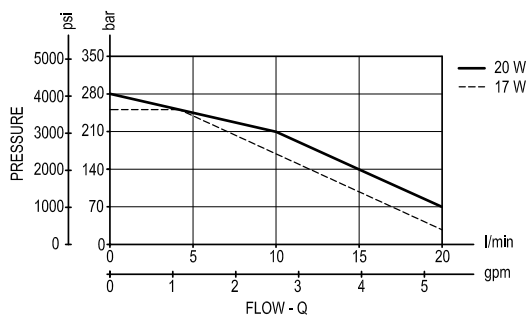
version 30



version 40

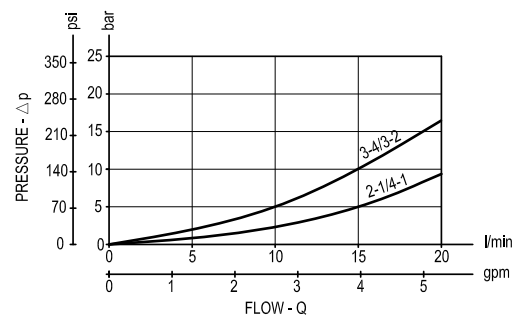
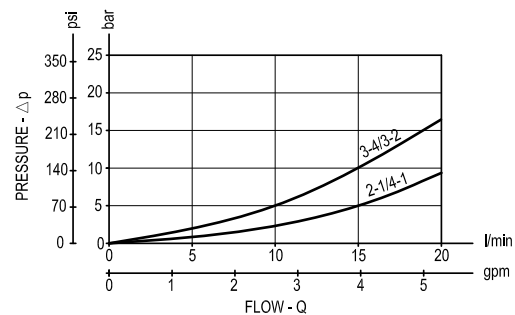
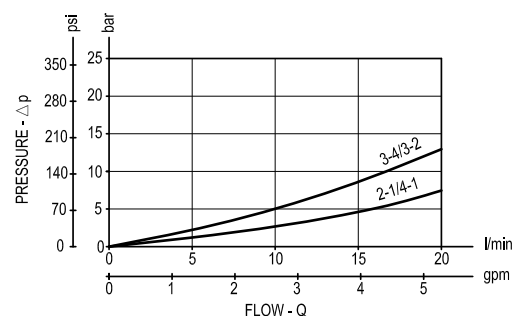
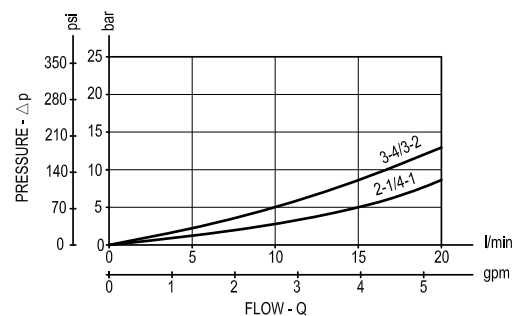
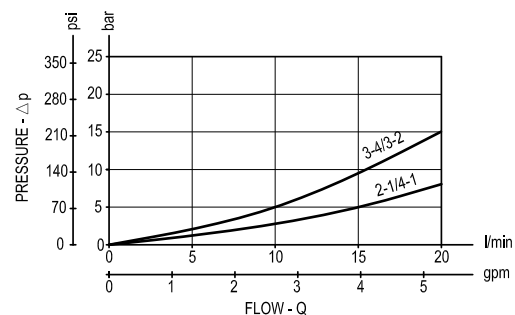
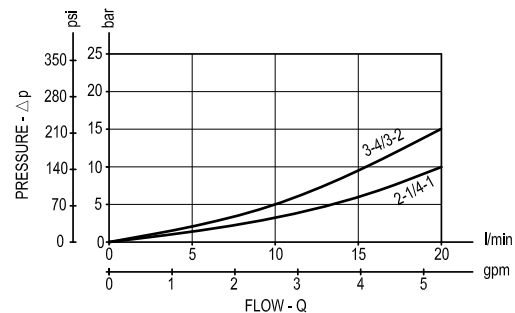


version 50



version 60

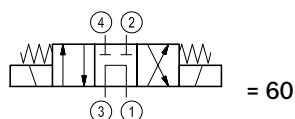
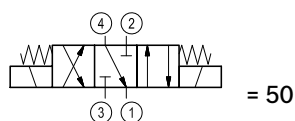
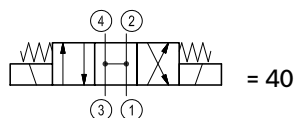
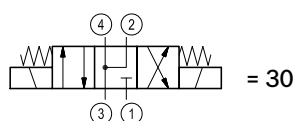
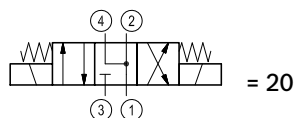
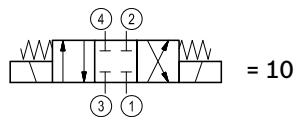
Characteristic curves



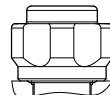
Ordering code

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



standard type



Common cavity: CA-08A-4N

All versions available by 03/2012; before 03/2012 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

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

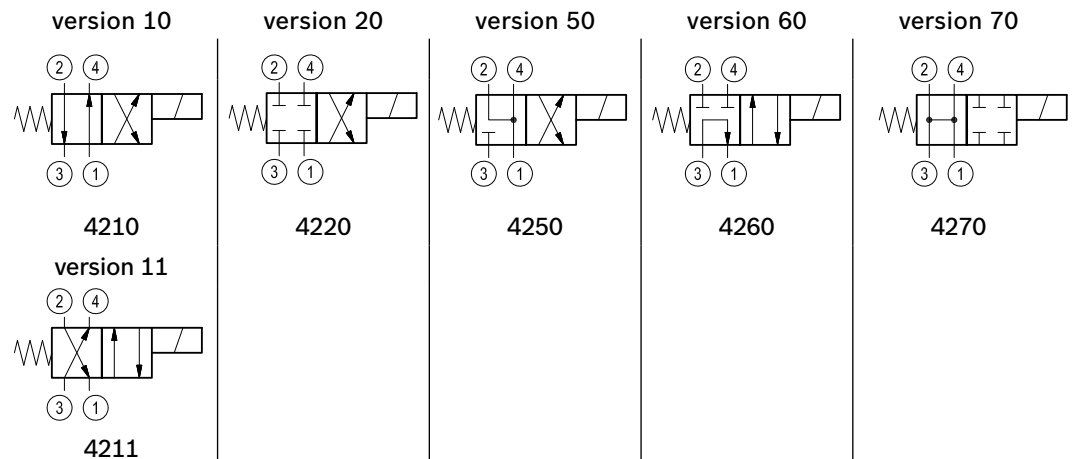
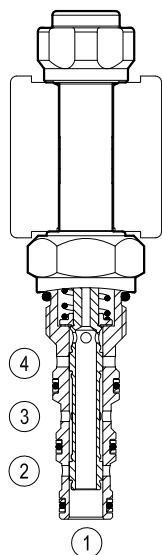
Type	Material number

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)	16 (4)
Max. internal leakage (*)	cm³/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-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)		

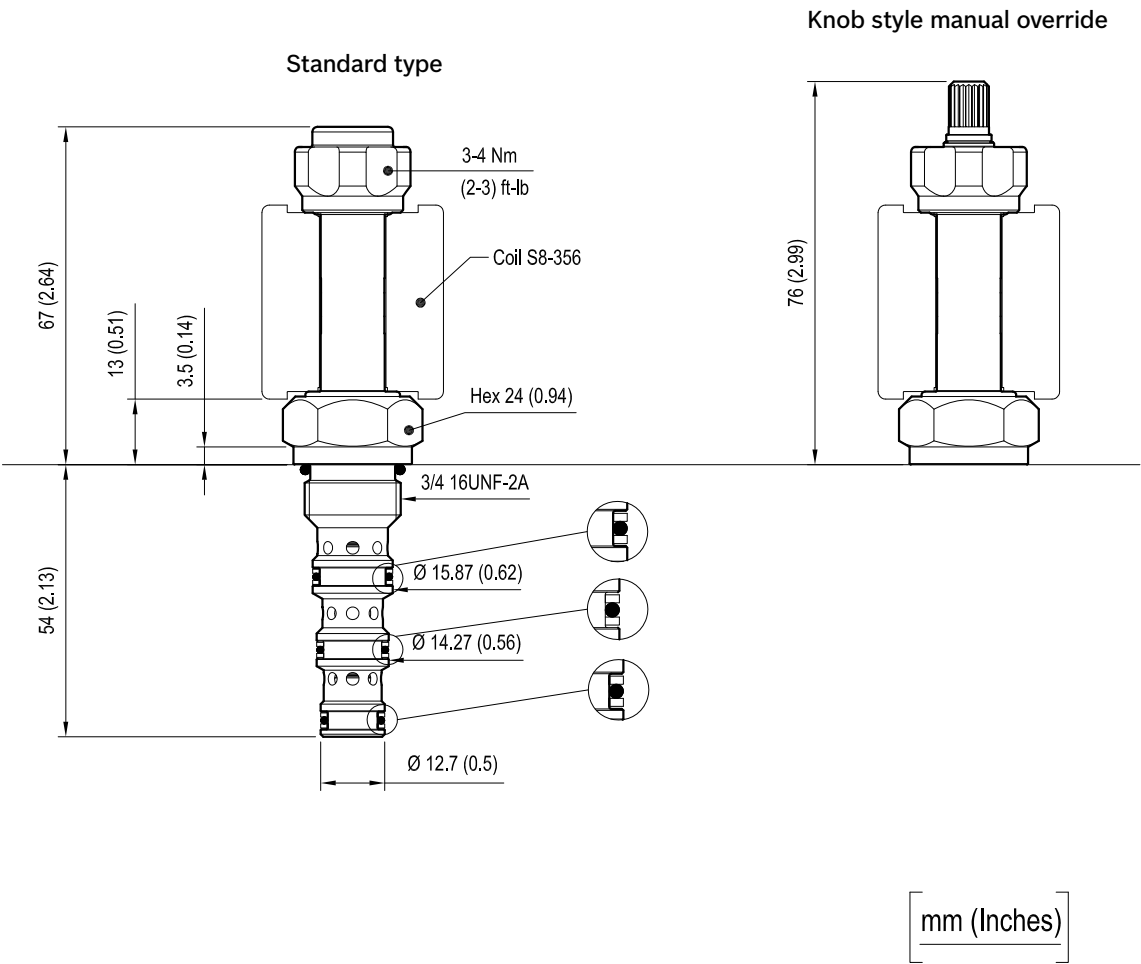
Electrical

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.	

All versions available by 03/2012; before 03/2012 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

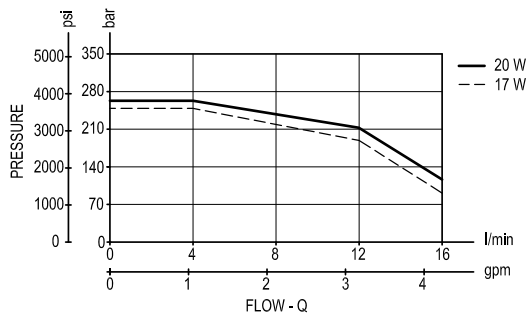
Dimensions

Solenoid operated valve, spool 4-way 2-position

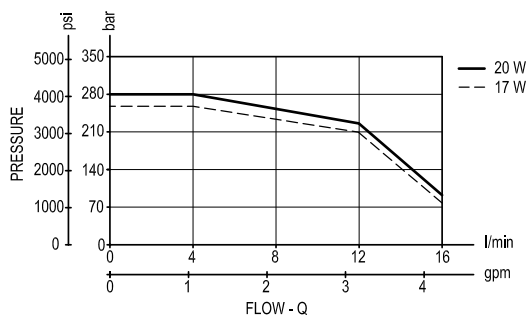


Performance graph

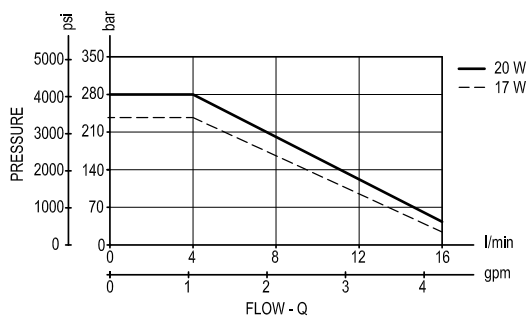
Performance limits



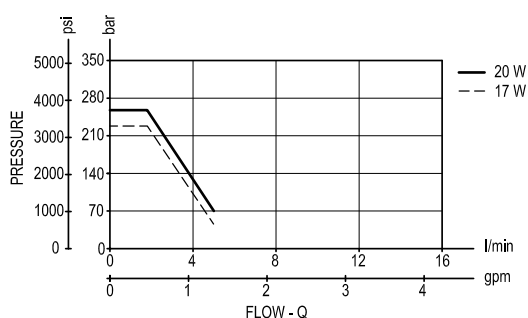
version 10



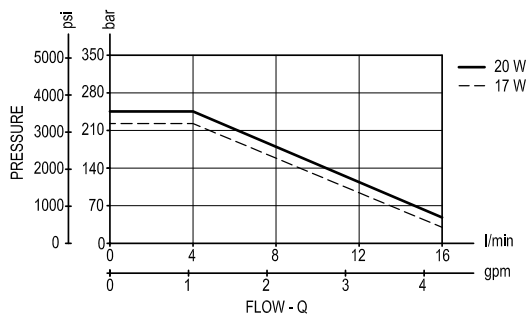
version 20



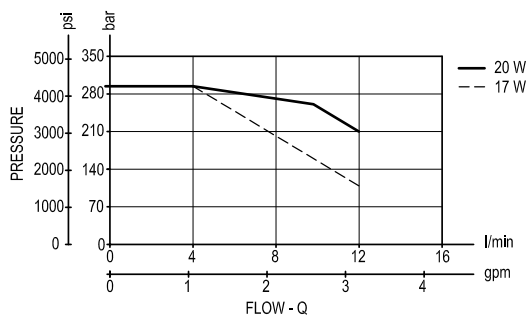
version 50



version 60

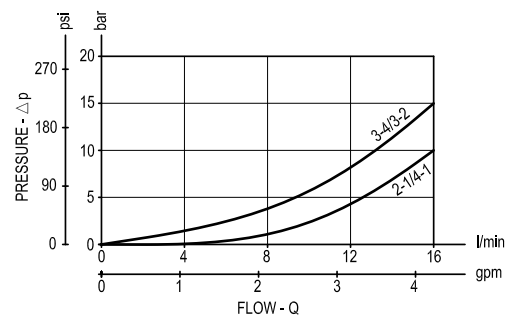
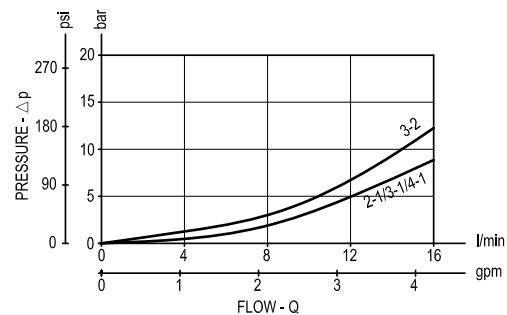
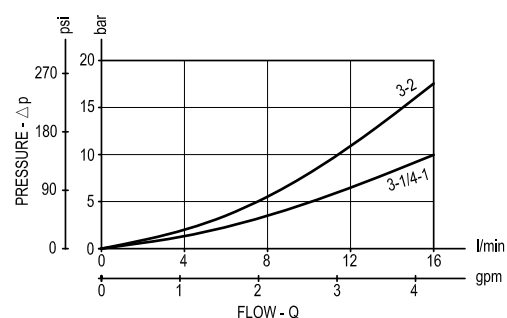
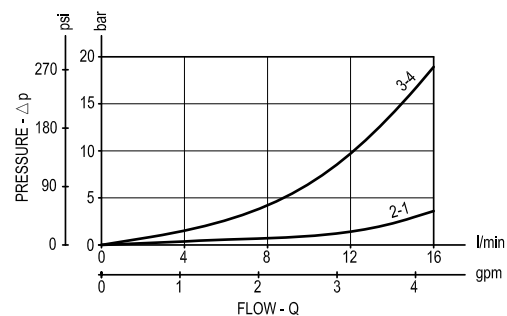
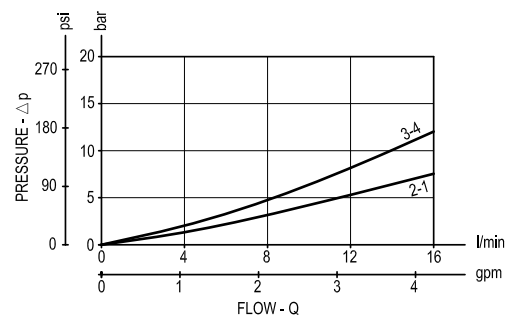
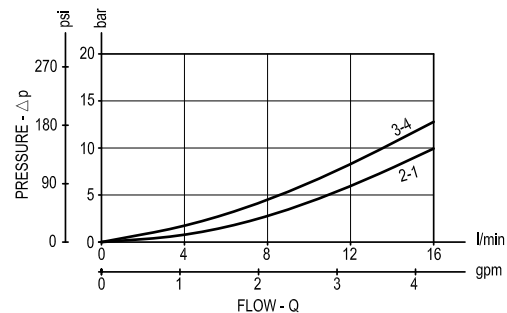


version 70



version 11

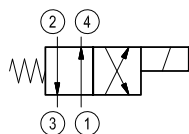
Characteristic curves



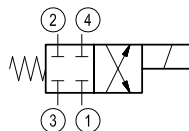
Ordering code

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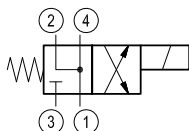
Solenoid operated valves
spool 4-way 2 position



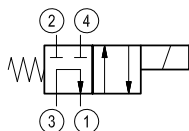
= 10



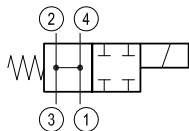
= 20



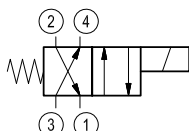
= 50



= 60



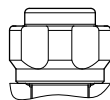
= 70



= 11

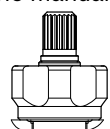
standard type

1A =



knob style manual override

1B =



Common cavity: CA-08A-4N

All versions available by 03/2012; before 03/2012 please refer to the VED series cartridge valves. Some schemes will be available sooner: please consult factory for specific requests.

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

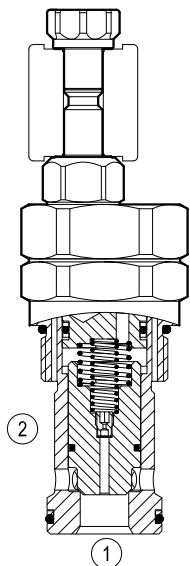
Type	Material number
OD1470581B0000	R934003539
OD1411581A0000	R934003638

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

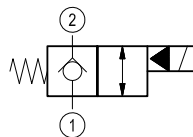
Special cavity, 004

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 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

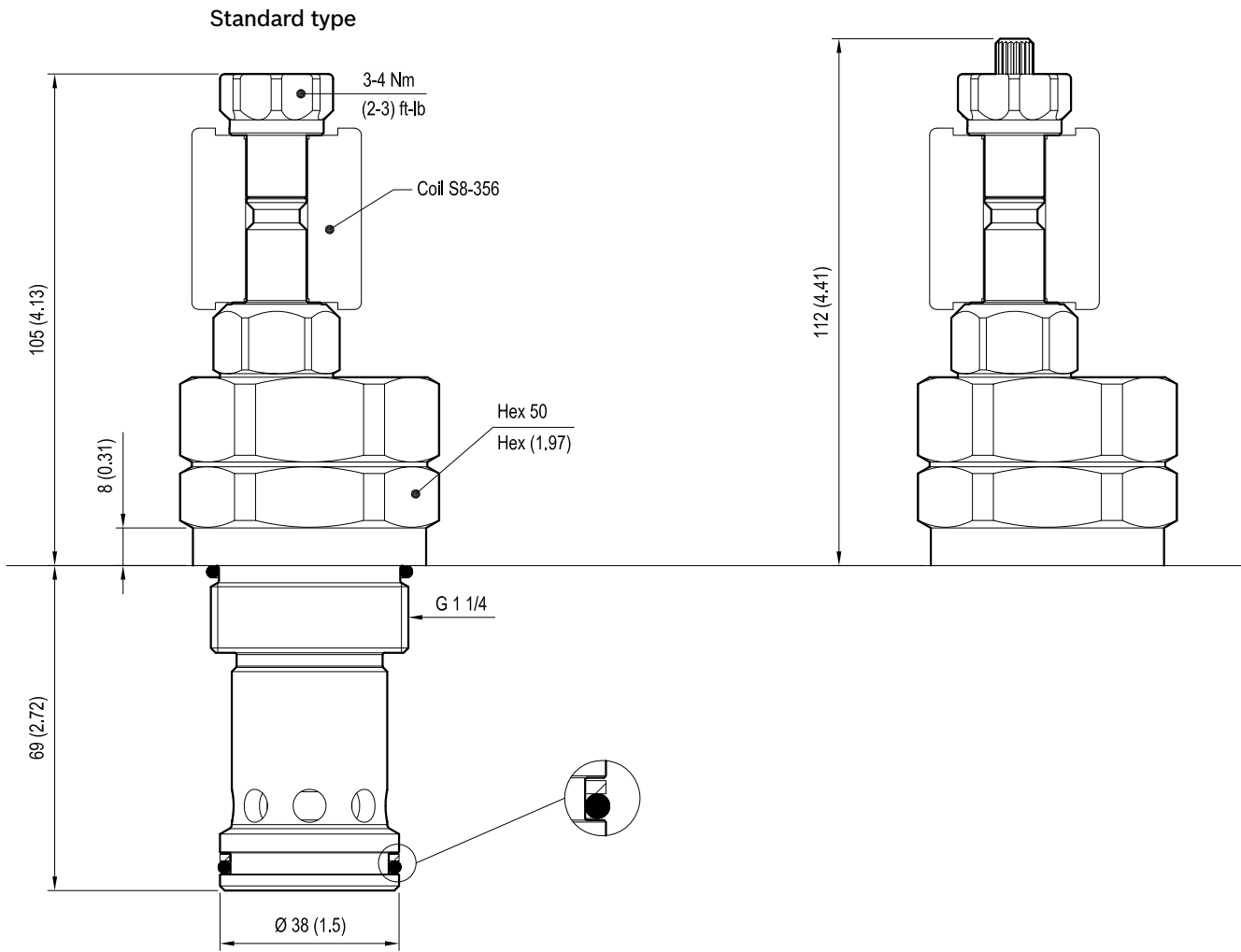
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

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

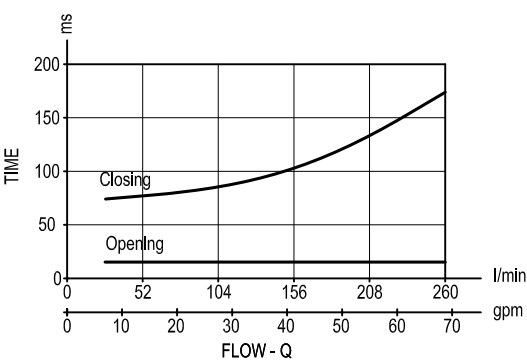
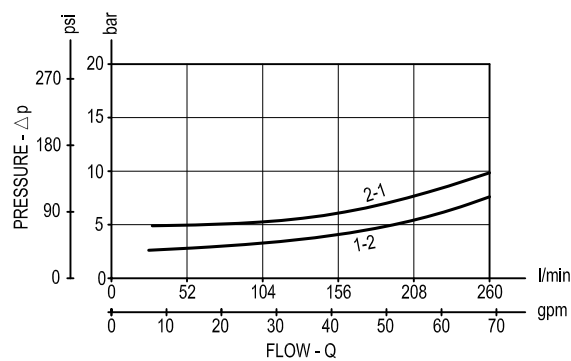
knob style manual override



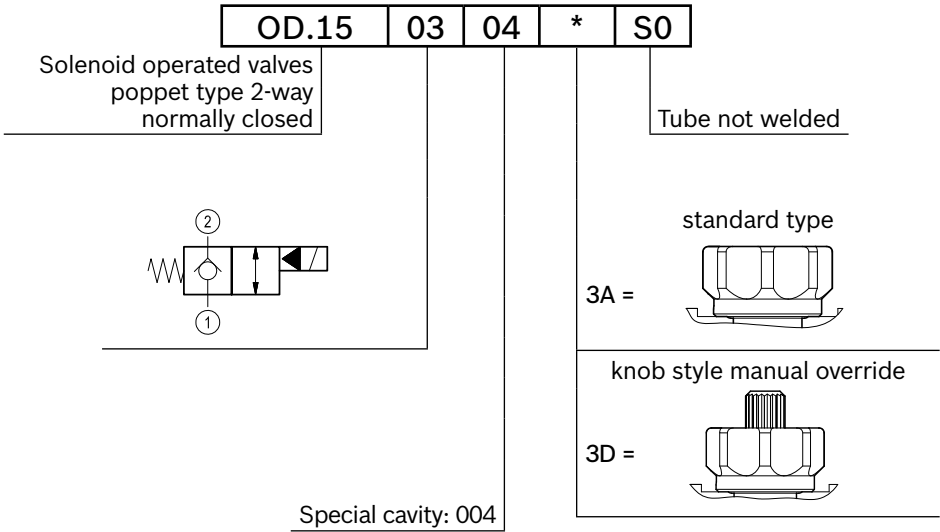
mm (Inches)

Performance graphs

Version 03



Ordering code



Type	Material number
OD1503043AS000	R934000764
OD1503043DS000	R901091110

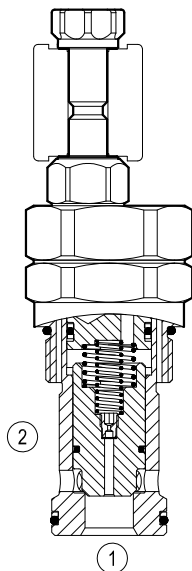
Type	Material number

Solenoid operated valves pilot operated poppet 2-way normally open

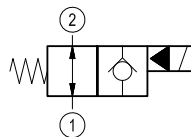
Special cavity, 004

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 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 material no. RG0004020520100 R930001696

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

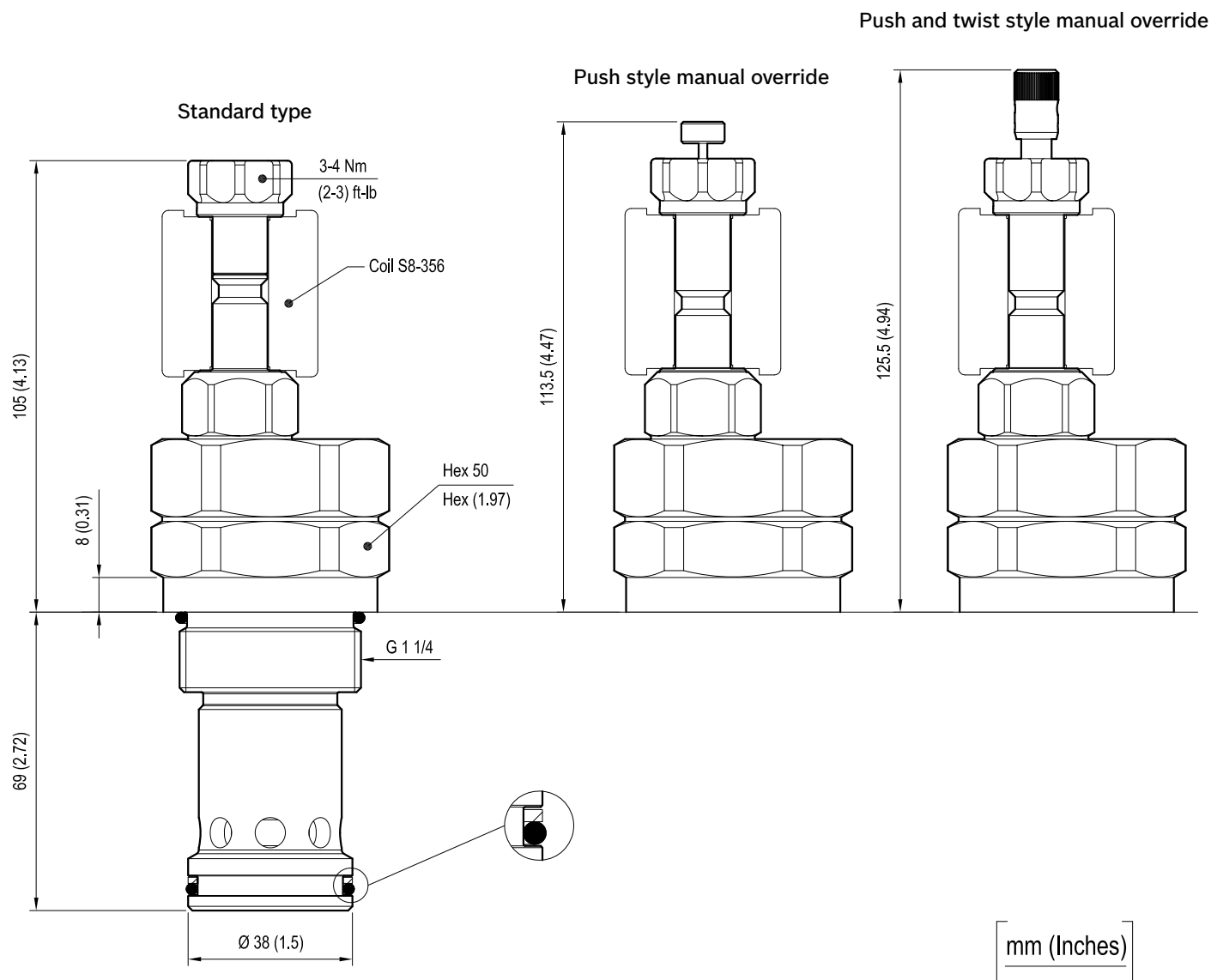
Electrical

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.

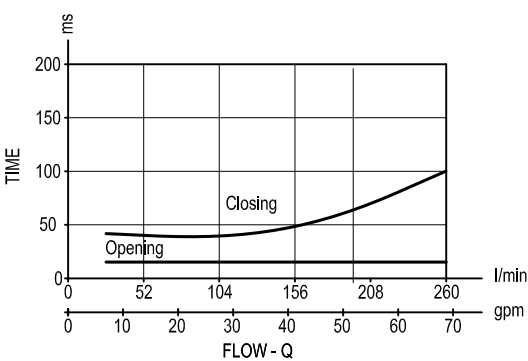
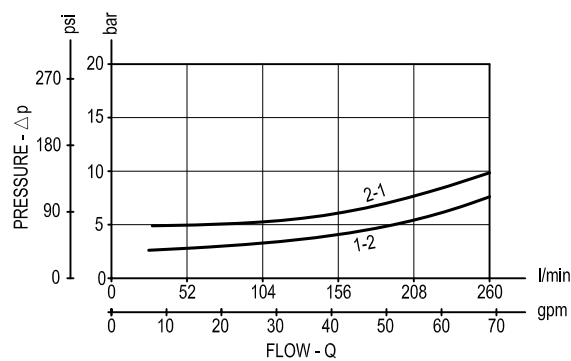
Dimensions

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



Performance graphs

Version 04



Ordering code

OD.15

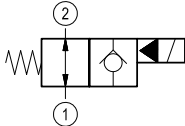
04

04

*

S0

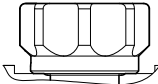
Solenoid operated valves
poppet type 2-way
normally open



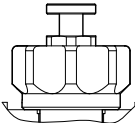
Special cavity: 004

Tube not welded

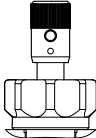
standard type

1A = 

Push style manual override

1B = 

Push and twist style manual override

1C = 

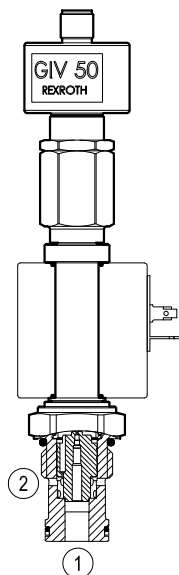
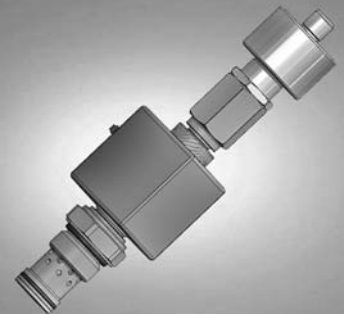
Type	Material number
OD1504041AS000	R901091118
OD1504041BS000	R901091119
OD1504041CS000	R901091120

Type	Material number

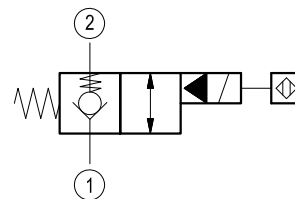
Solenoid operated valves pilot operated poppet 2-way normally closed proximity sensor - extra spring Special cavity, 017-E

VEI-7A-2A-09-NC-S-X-M

OD.15.05.17.62.05 - Z



Version 05



General

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

Hydraulic

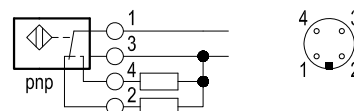
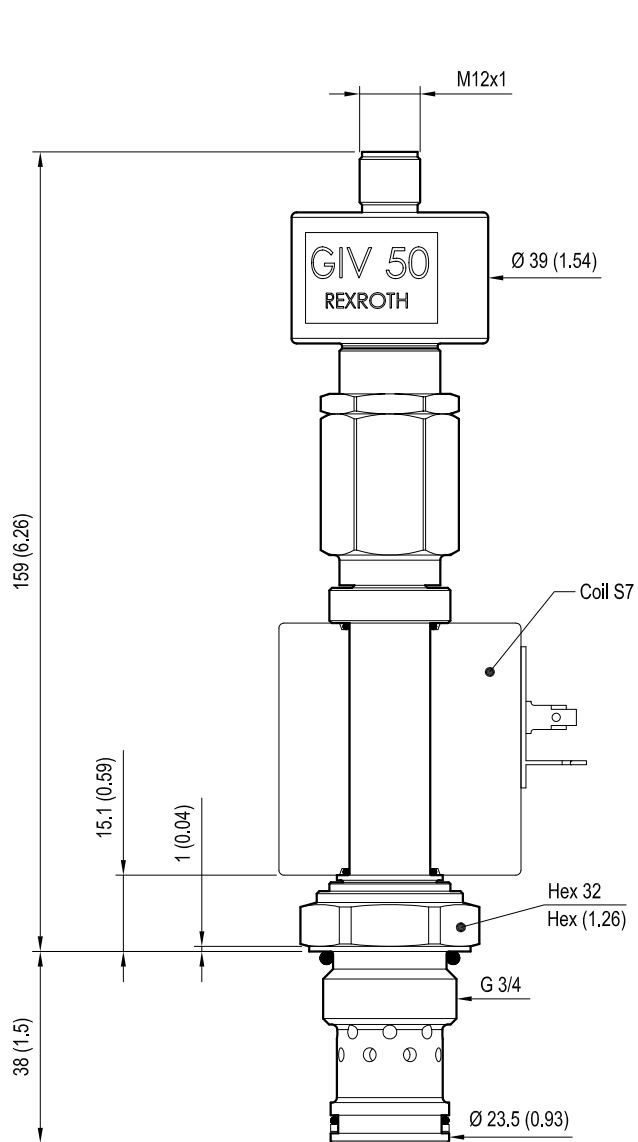
Max. operating pressure	bar (psi)	250 (3600)
Flow range	l/min.(gpm)	5-70 (1-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	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 material no.	RG17E201052010 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

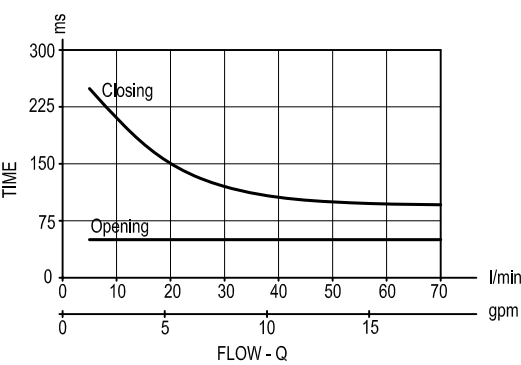
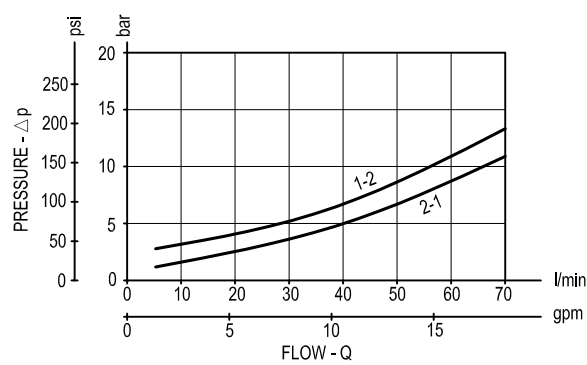
Dimensions

Solenoid operated valves poppet 2-way normally closed proximity sensor



mm (Inches)

Performance graphs



Ordering code

OD.15

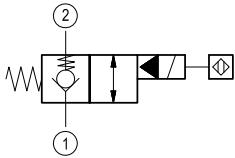
05

17

6205

Z

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
OD1505176205OB	R934001217
OD1505176205OC	R934001205

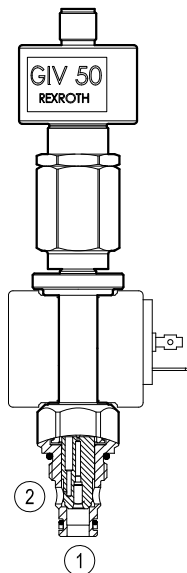
Type	Material number

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

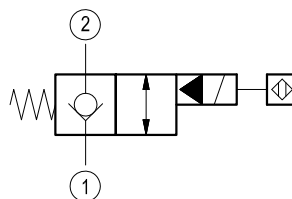
Common cavity, Size 08

VEI-8A-2A-06-NC-S-M

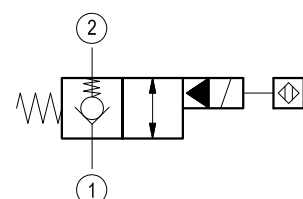
OD.15.05.18.36 - Y - Z



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

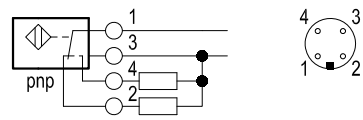
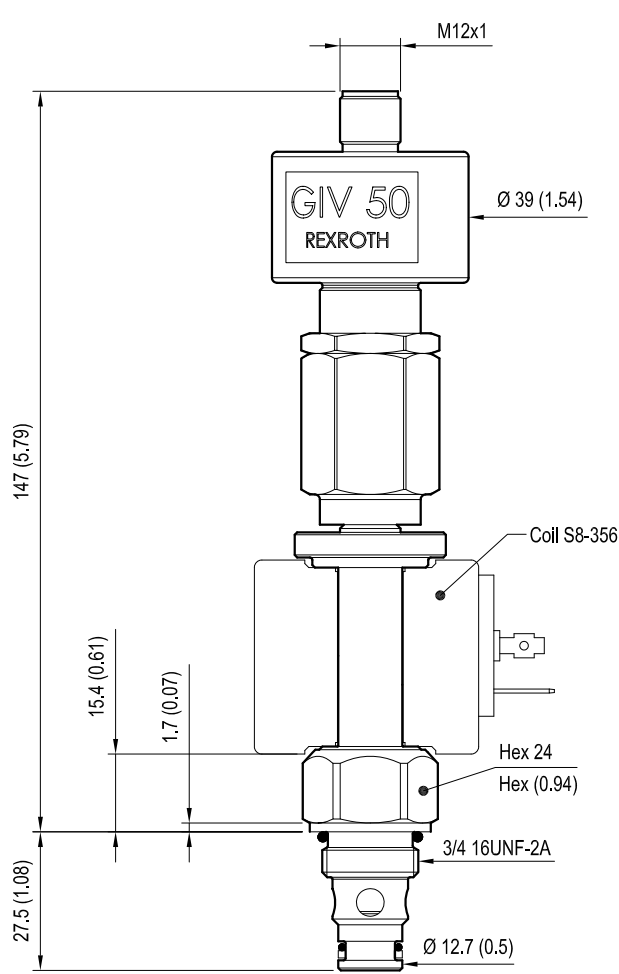
Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	5-40 (1-11)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	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	RG08A201052010
	material no.	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

Dimensions

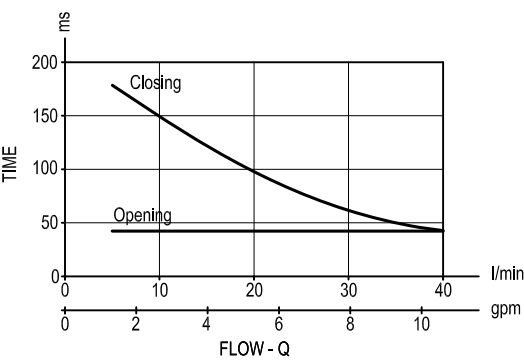
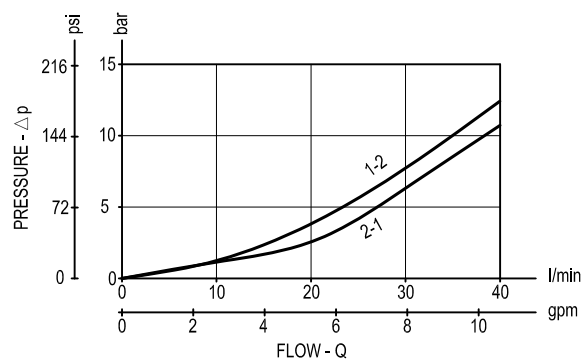
Solenoid operated valves poppet 2-way normally closed proximity sensor



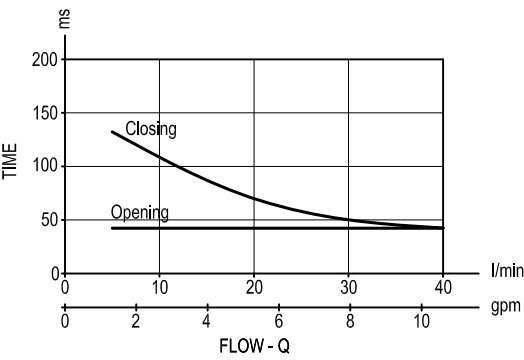
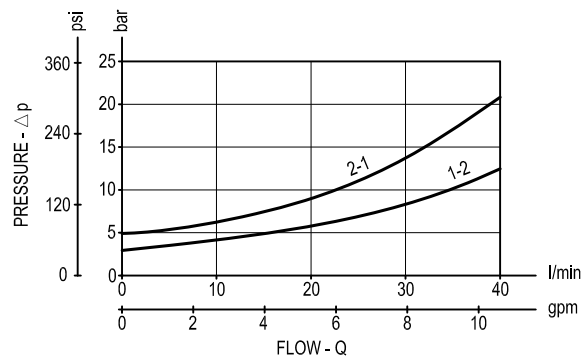
mm (Inches)

Performance graphs

Version 05



Version 85



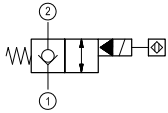
Ordering code

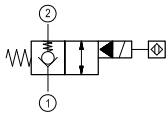
OD.15	05	18	36	Y	Z
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Solenoid operated valves
poppet 2-way normally
closed proximity sensor

OC = 24 V DC

Note: please consult factory for
different voltages.

05 = 

85 = 

Common cavity: CA-08A-2N

Type	Material number
OD1505183605OC	R934001223
OD1505183685OC	R934001211

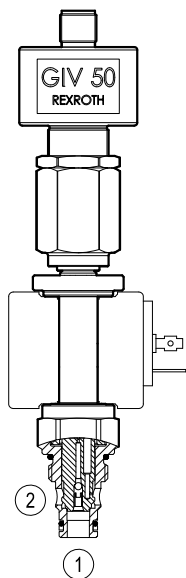
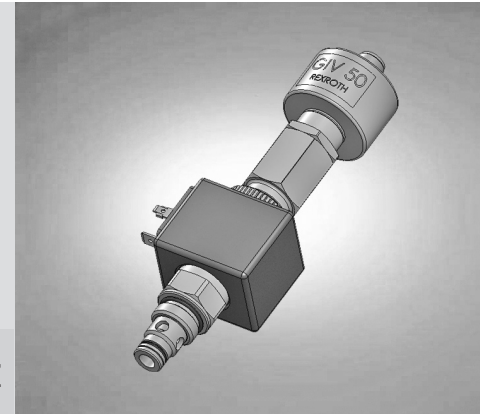
Type	Material number

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

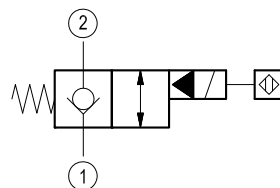
Common cavity, Size 08

VEI-8A-2A-06-NC-S-M

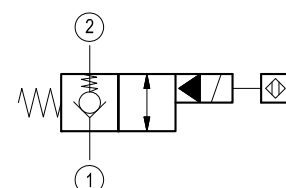
OD.15.05.18.41 - Y - Z



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 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
(*) (cSt 46)		

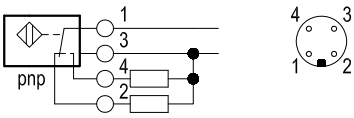
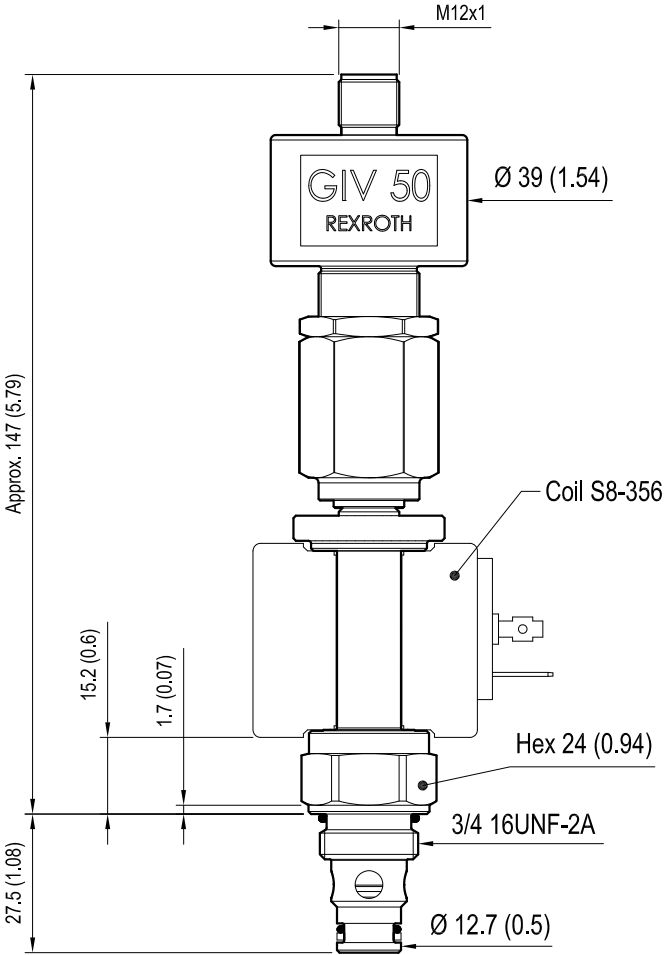
Electrical

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 fuction 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

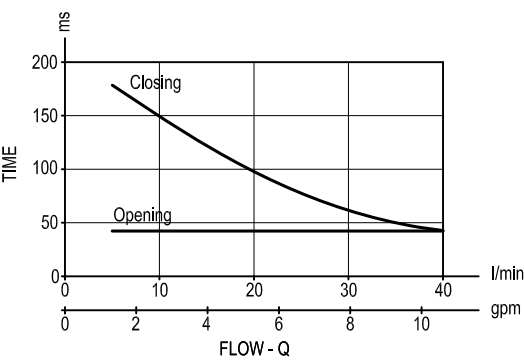
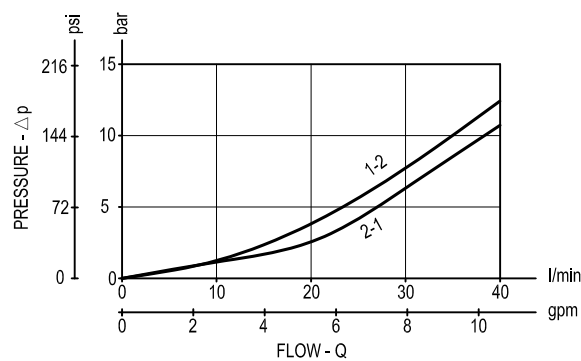
Solenoid operated valves poppet 2-way normally closed proximity sensor



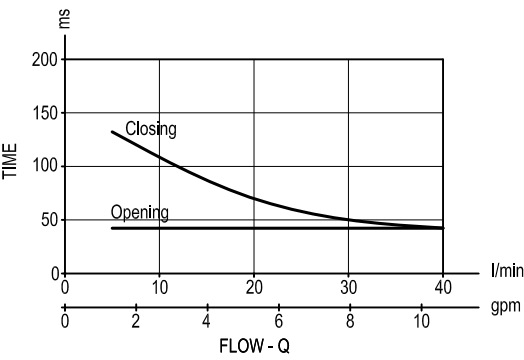
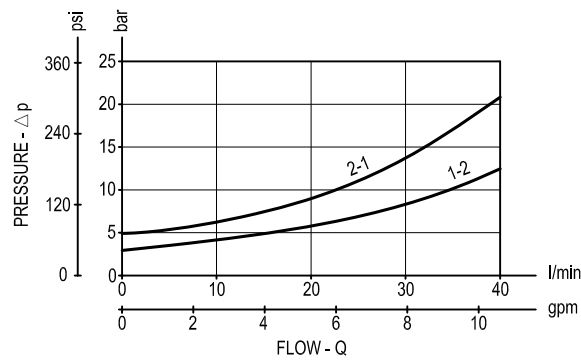
mm (Inches)

Performance graphs

Version 05



Version 85



Ordering code

OD.15

05

18

41

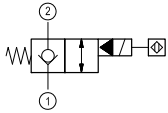
Y

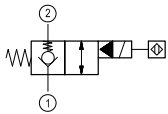
Z

Solenoid operated valves
poppet 2-way normally
closed proximity sensor

OC = 24 V DC

Note: please consult factory for
different voltages.

05 = 

85 = 

Common cavity: CA-08A-2N

Type	Material number	Type	Material number
OD1505184105OC	R934004319		
OD1505184185OC	R934004320		

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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.

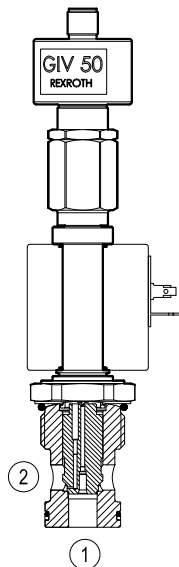
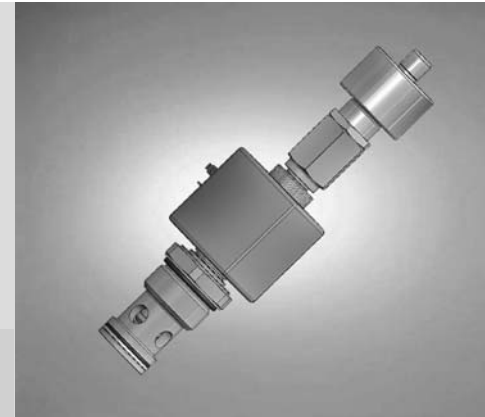
Subject to change.

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

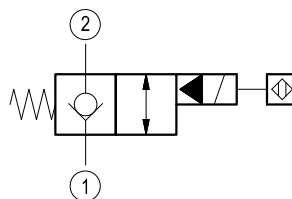
Special cavity, 021-E

VEI-7A-2A-14-NC-S

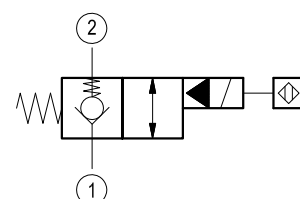
OD.15.05.21.62 - Y - Z



Version 05



Version 85



General

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

Hydraulic

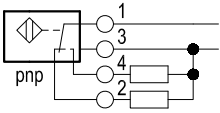
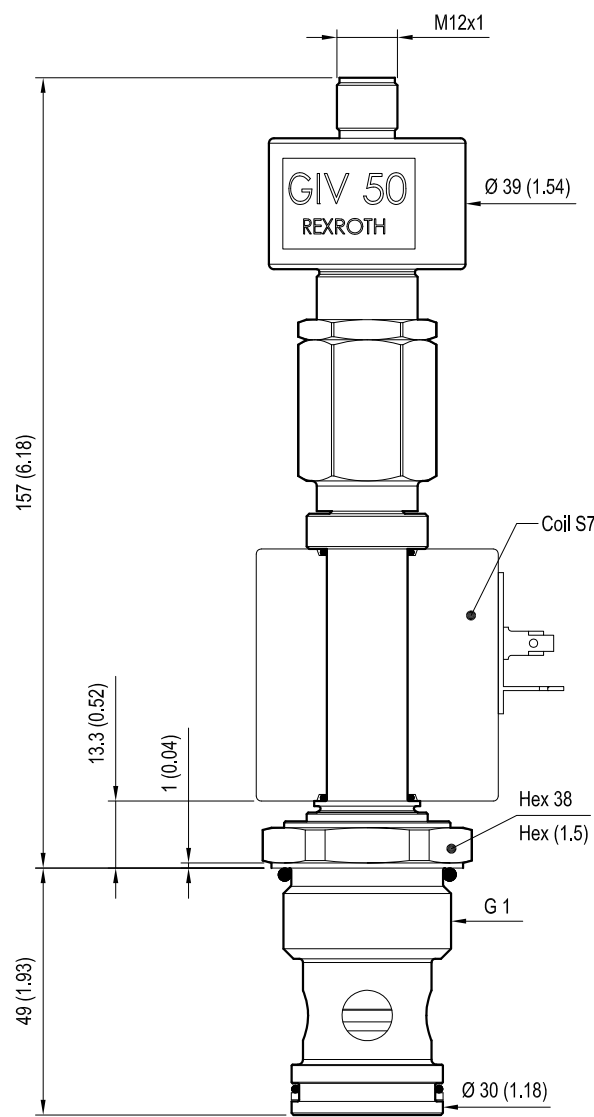
Max. operating pressure	bar (psi)	250 (3600)
Flow range	l/min.(gpm)	5-150 (1-40)
Max. internal leakage (*)	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	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 material no.	RG21E201052010 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

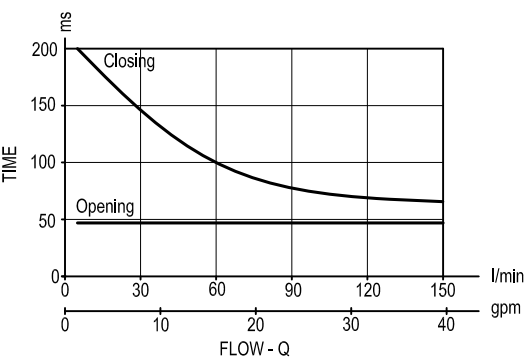
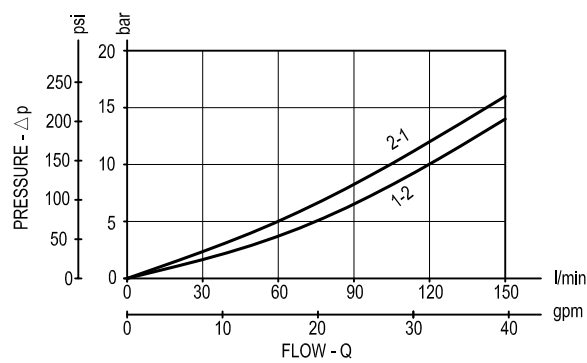
Solenoid operated valves poppet 2-way normally closed proximity sensor



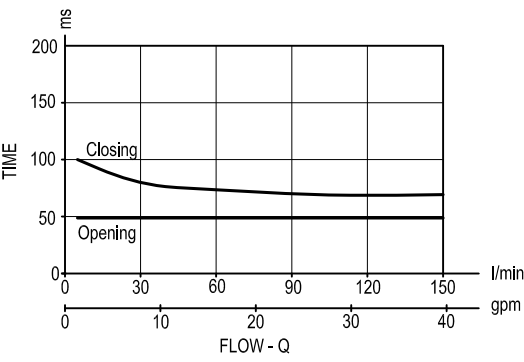
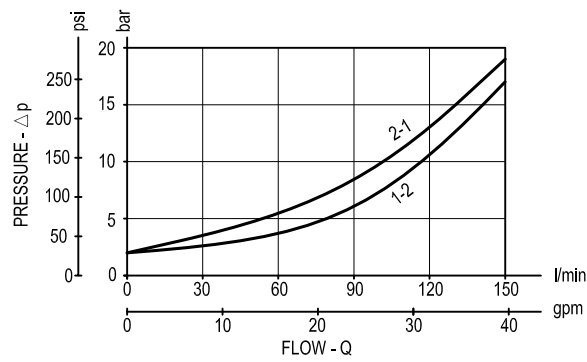
mm (Inches)

Performance graphs

Version 05



Version 85



Ordering code

OD.15	05	21	62	Y	Z
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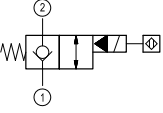
Solenoid operated valves
poppet 2-way normally closed
proximity sensor

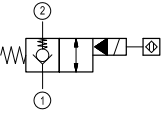
Special cavity: 021-E

OB = 12 V DC for Y= 85

OC = 24 V DC for Y= 05 or 85

Note: please consult factory for different voltages.

05 =


85 =


Type	Material number
OD1505216205OC	R934001213
OD1505216285OB	R934001229
OD1505216285OC	R934001224

Type	Material number

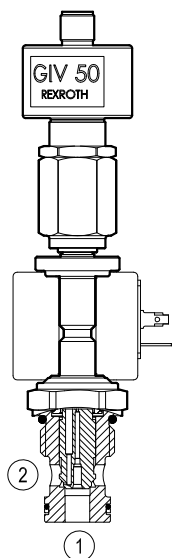
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Special cavity, 017-E

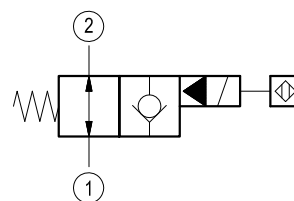


VEI-8A-2A-09-NA-S-M-NSS

OD.15.06.17.1D.S0 - Z



Version 06



2A06

General

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

Hydraulic

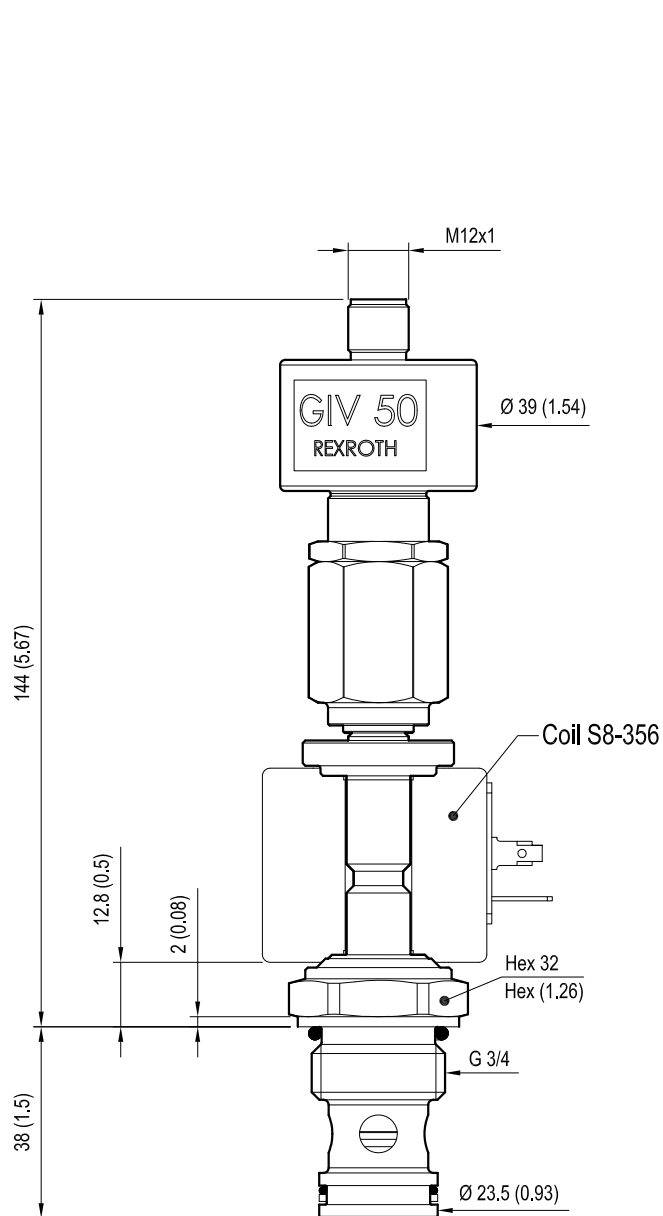
Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	3.5-70 (1-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	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	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

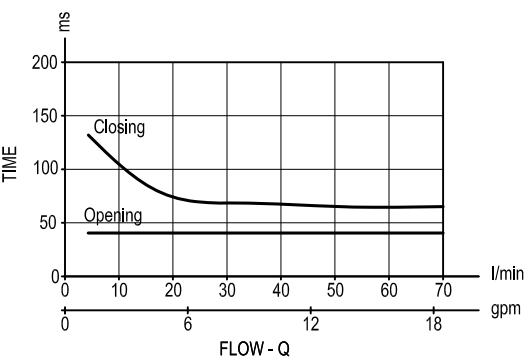
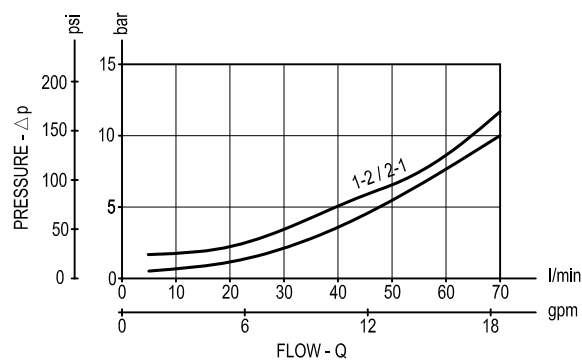
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



mm (Inches)

Performance graphs



Ordering code

OD.15

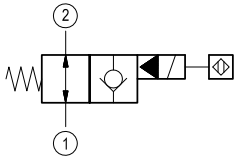
06

17

1D.S0

*

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
OD1506171DS2OB	R934001215
OD1506171DS2OC	R934001206

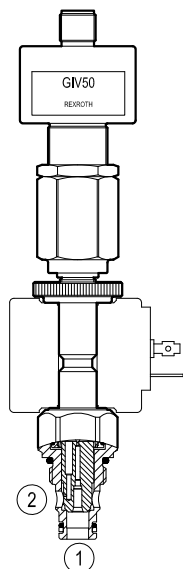
Type	Material number

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

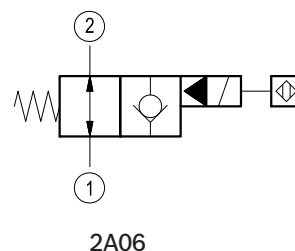
Common cavity, Size 08

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

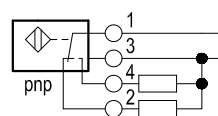
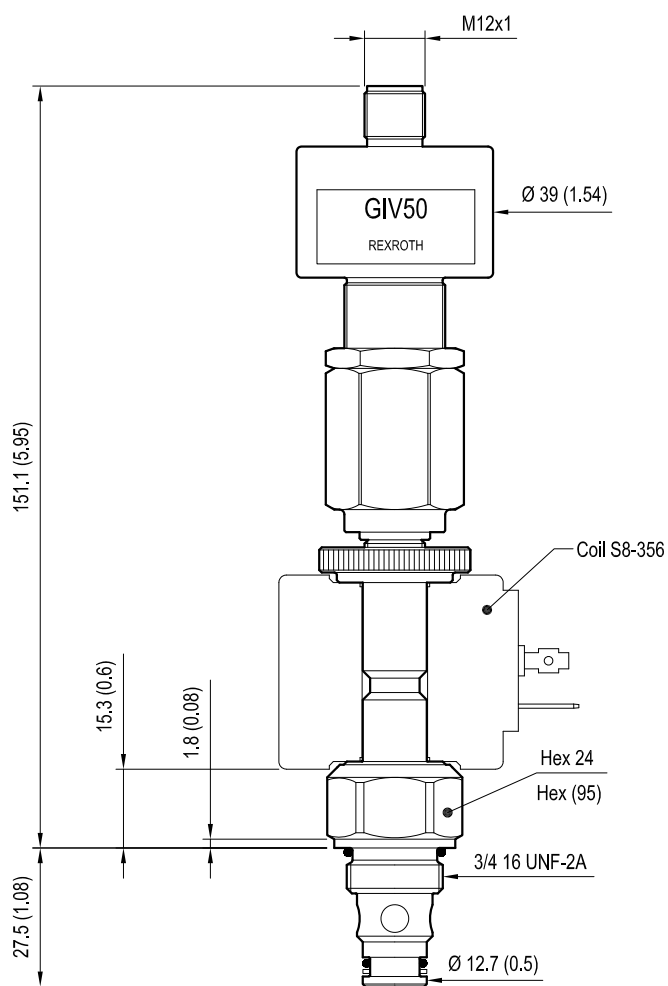
Electrical

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 fuction 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.

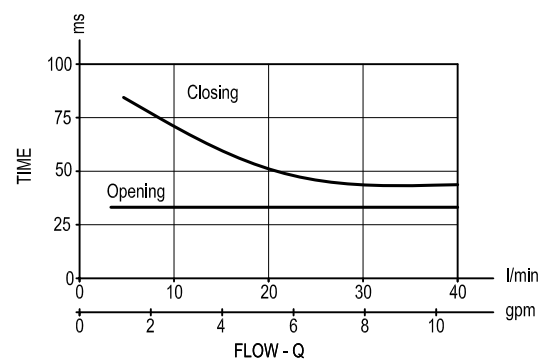
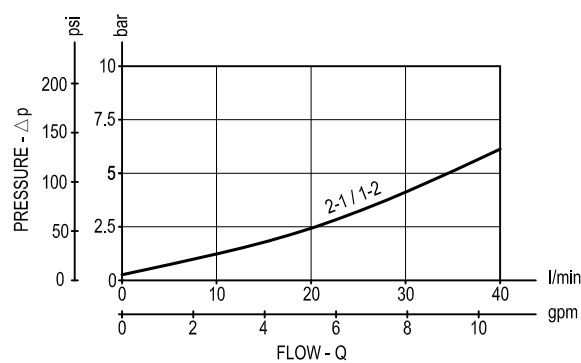
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor

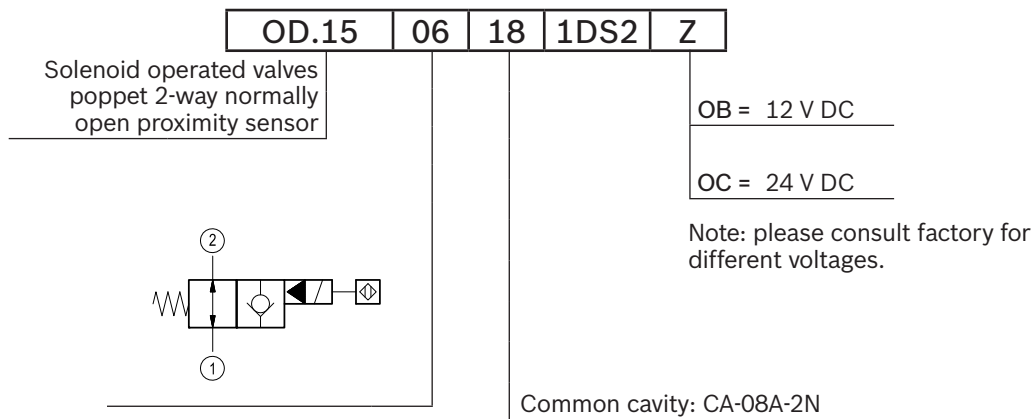


mm (Inches)

Performance graphs

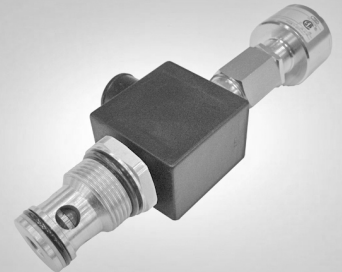


Ordering code

[illegible]

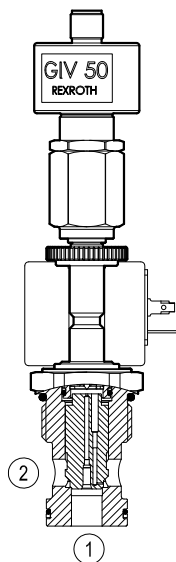
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Special cavity, 021-E

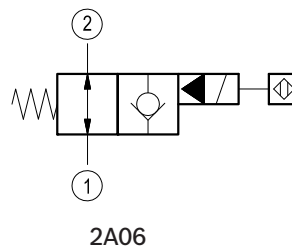


VEI-8A-2A-12-NA-S-M-NSS

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 mm²/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

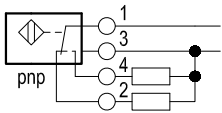
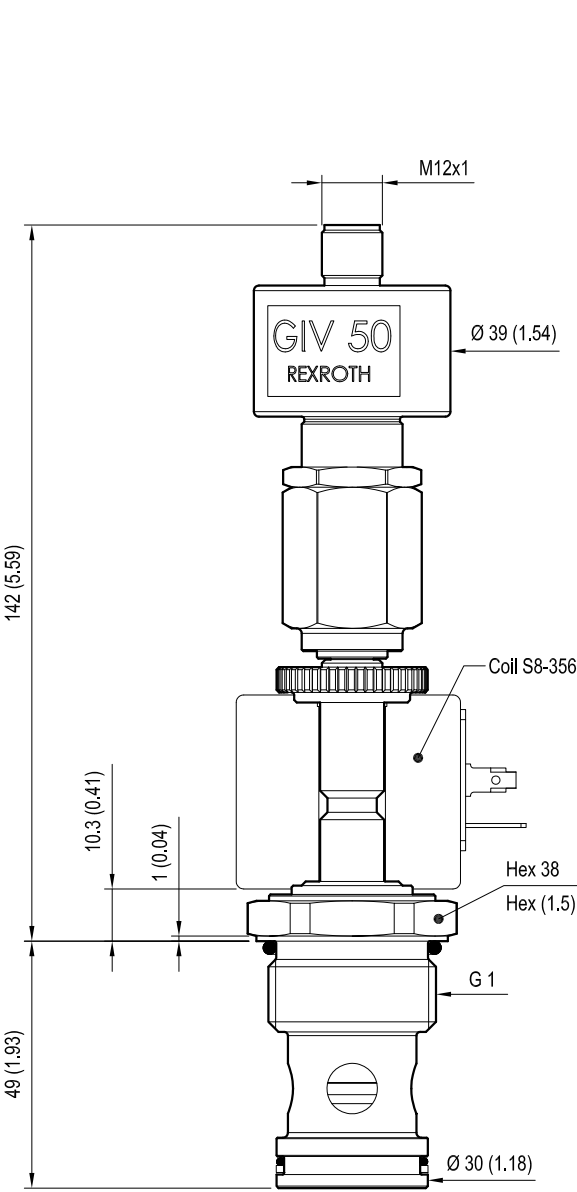
Electrical

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 fuction 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.

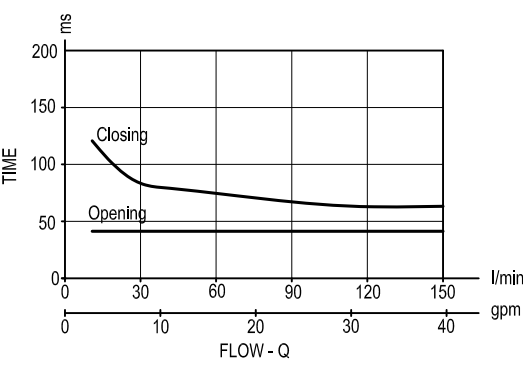
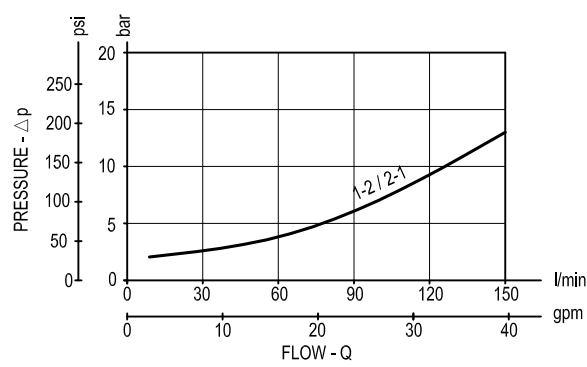
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



mm (Inches)

Performance graphs



Ordering code

OD.15

06

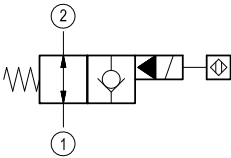
21

1D

S2

Z

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

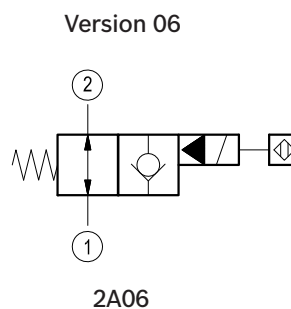
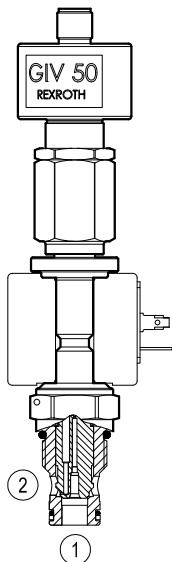
Type	Material number	Type	Material number
OD1506211DS2OB	R934001228		
OD1506211DS2OC	R934001208		

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	RG10A201052010
	material no.	R901111363
Other technical data		See data sheet RE 18350-50

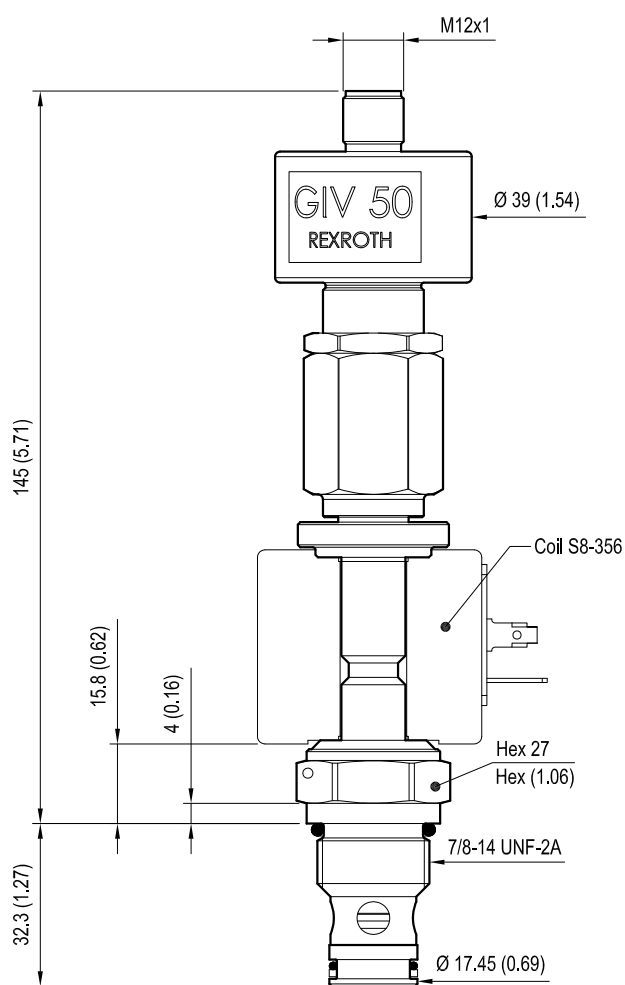
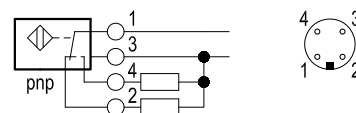
Electrical

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 fuction 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.

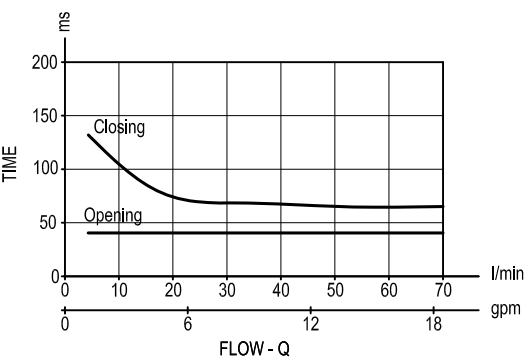
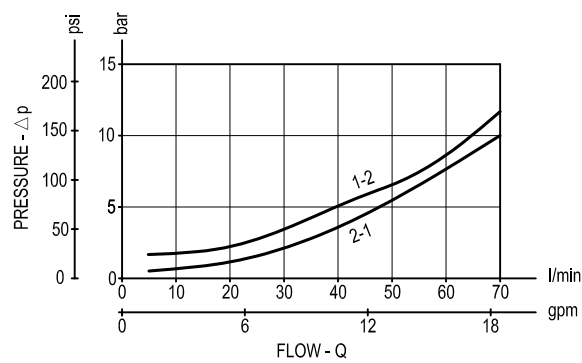
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



[mm (Inches)]

Performance graphs



Ordering code

OD.15

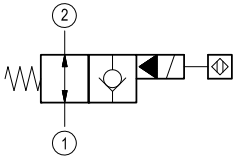
06

76

1D.S2

Z

Solenoid operated valves
poppet 2-way normally
open proximity sensor



AC = 26 V DC

Note: please consult factory for
different voltages.

Special cavity: 076-E

Type	Material number
OD1506761DS2AC	R934001233

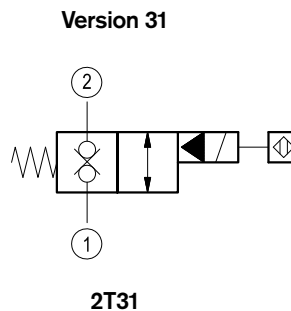
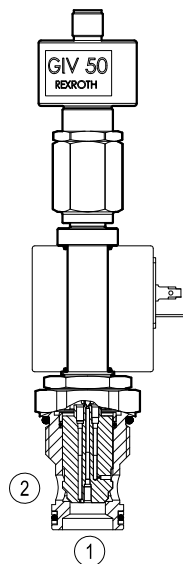
Type	Material number

Solenoid operated valves poppet 2-way normally closed proximity sensor

Common cavity, Size 16

VEI-7A-2T-14-NC-S-M

OD.15.31.75.62.05 - Z



General

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

Hydraulic

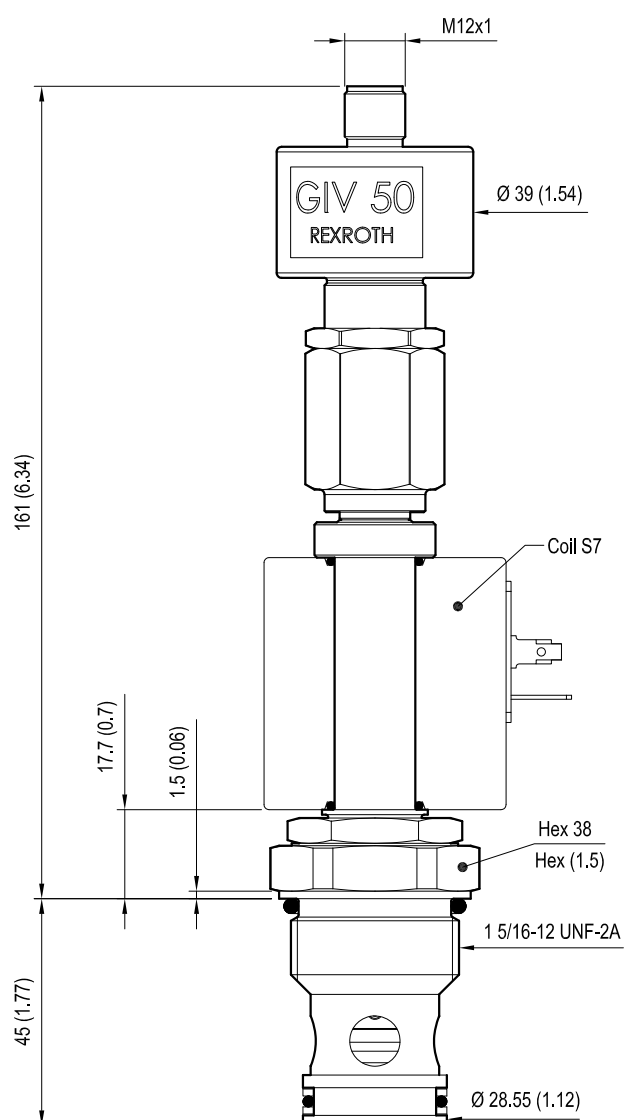
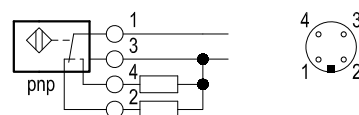
Max. operating pressure	bar (psi)	250 (3600)
Flow range	l/min.(gpm)	4.5-200 (1.2-53)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	80-85 (59-63)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-16A-2N see RE 18325-70
Seal kit	code material no.	RG16A2010530100 R930003262
Other technical data		See data sheet RE 18350-50
(*) (cSt 46)		

Electrical

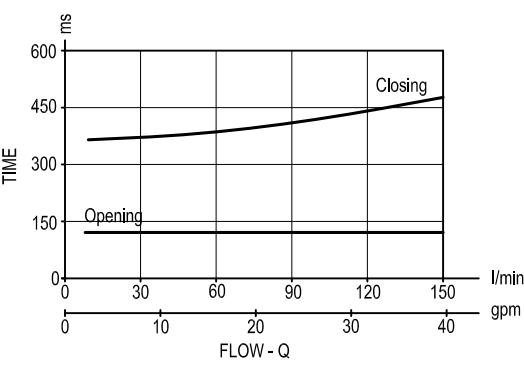
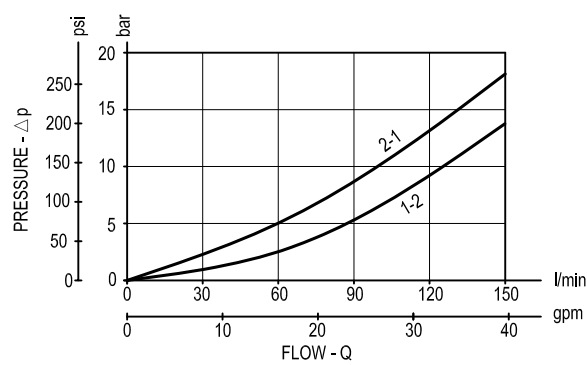
Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 30
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Dimensions

Solenoid operated valves poppet 2-way normally closed proximity sensor



Performance graphs



Ordering code

OD.15

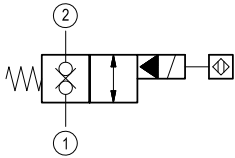
31

75

62.05

Z

Solenoid operated valves
poppet 2-way normally closed
proximity sensor



OC = 24 V DC

Note: please consult factory for
different voltages.

Common cavity: CA-16A-2N

Type	Material number
OD1531756205OC	R934001234

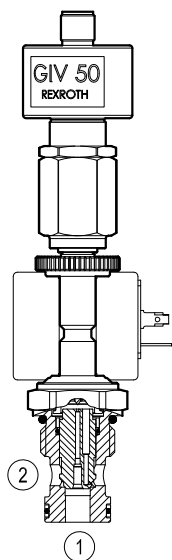
Type	Material number

Solenoid operated valves pilot operated poppet 2-way normally open double lock proximity sensor Special cavity, 017-E

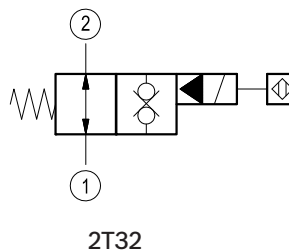


VEI-8A-2T-09-NA-S-M-NSS

OD.15.32.17.1D.S2 - Z



Version 32



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 mm²/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

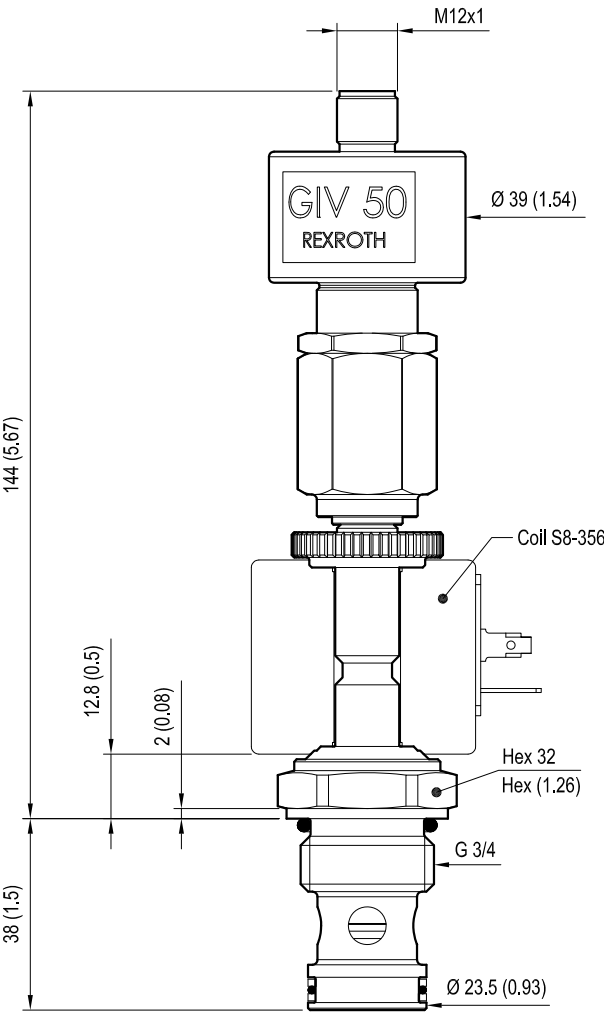
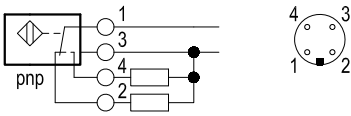
Electrical

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 fuction 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.

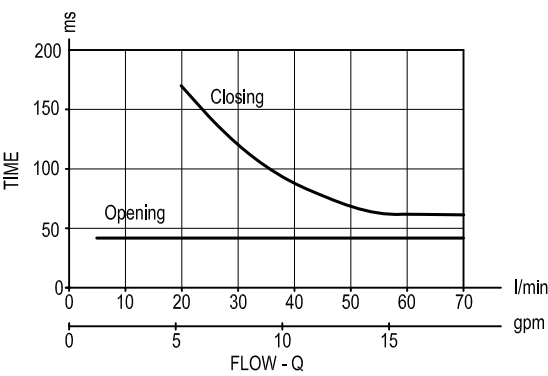
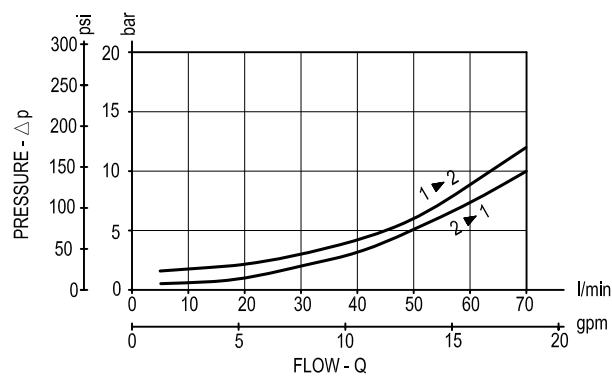
Dimensions

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



mm (Inches)

Performance graphs



Ordering code

OD.15

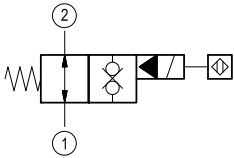
32

17

1D.S2

Z

Solenoid operated valves
poppet 2-way normally
open proximity sensor



OC = 24 V DC

Note: please consult factory for
different voltages.

Special cavity: 017-E

Type	Material number
OD1532171DS2OC	R934001235

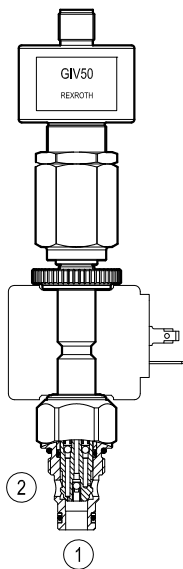
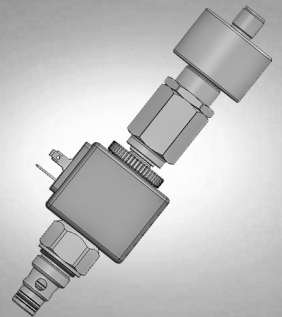
Type	Material number

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

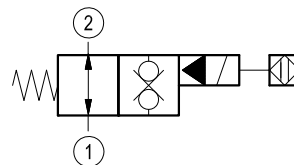
Common cavity, Size 08

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

OD.15.32.18.1D.S2 - Z



Version 32



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

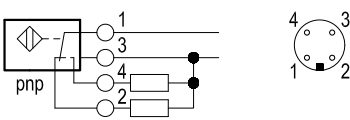
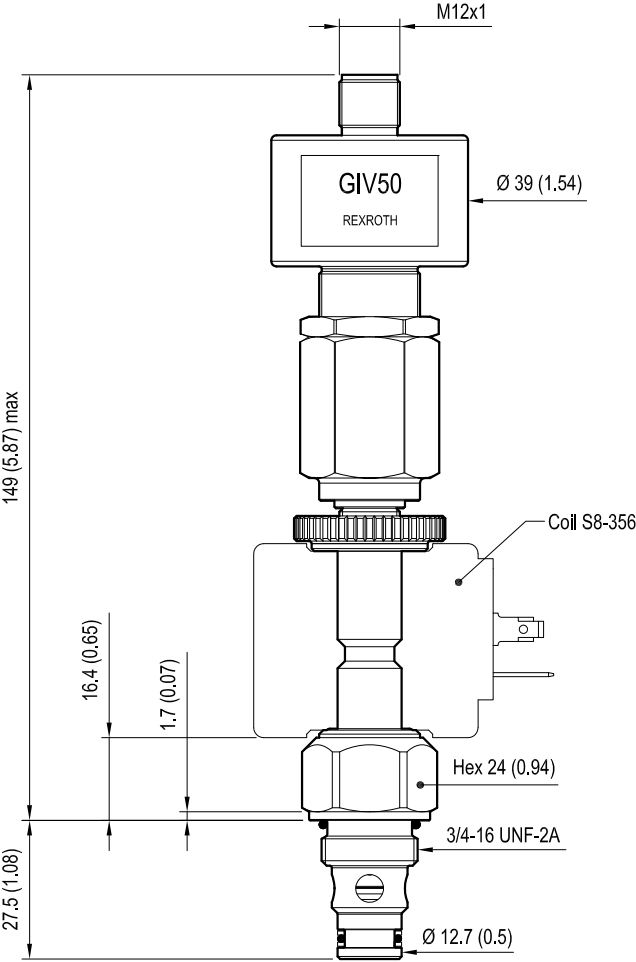
Electrical

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 fuction 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.

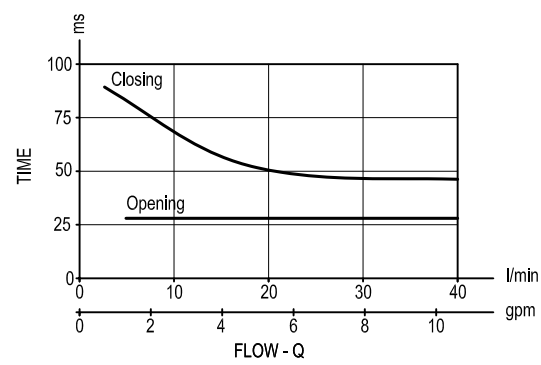
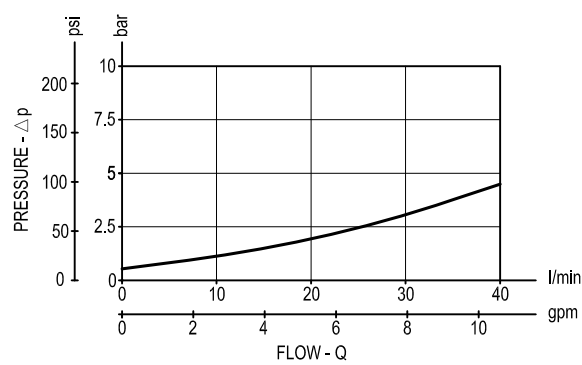
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



mm (Inches)

Performance graphs



Ordering code

OD.15

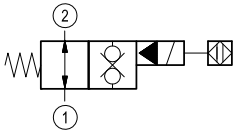
32

18

1DS2

Z

Solenoid operated valves
poppet 2-way normally
open proximity sensor



OB = 12 V DC

Note: please consult factory for
different voltages.

Common cavity: CA-08A-2N

Type	Material number
OD1532181DS2OB	R934004542

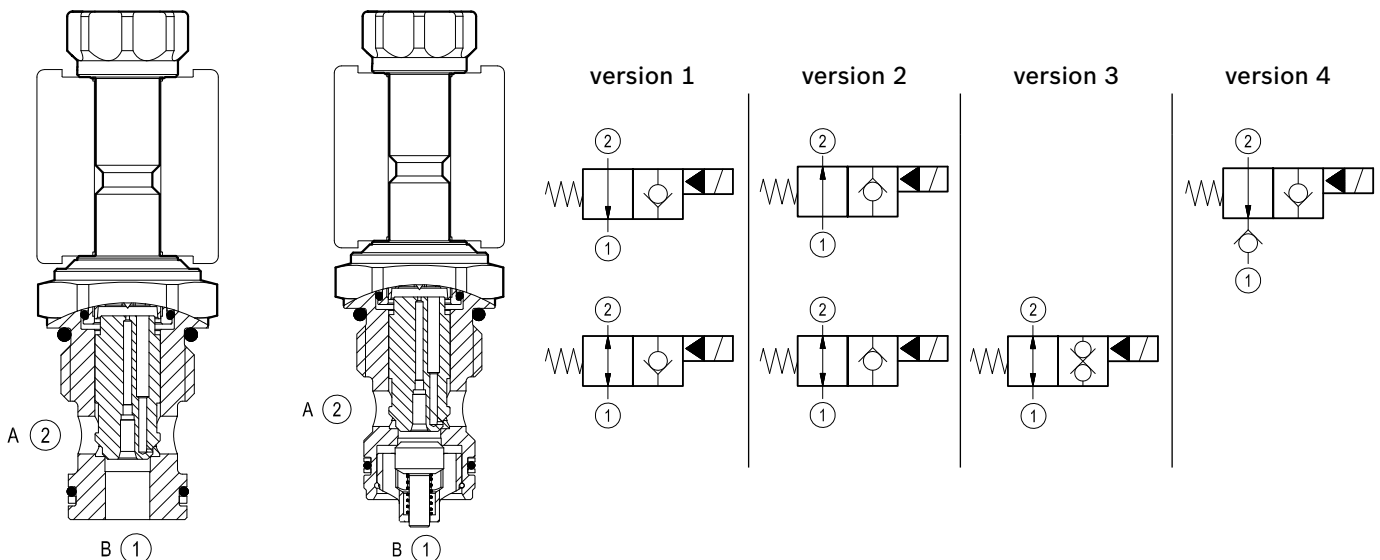
Type	Material number

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 material no. RG17E201052010 R934003562

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

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

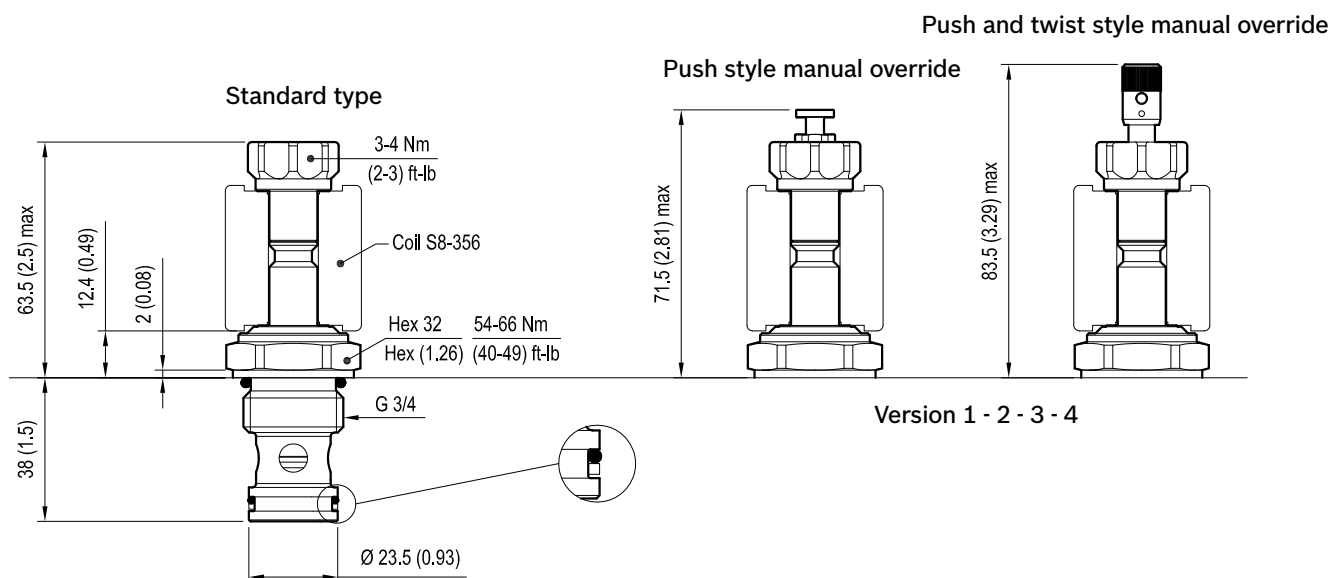
Electrical

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.

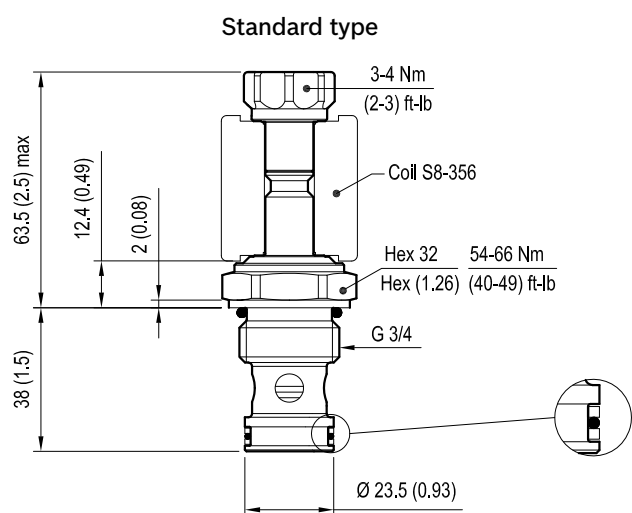
Dimensions

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

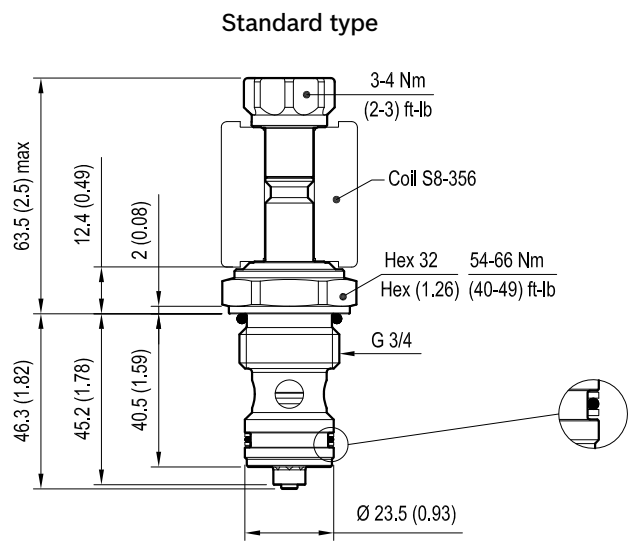


Version 2: Solenoid operated valve, poppet 2-way normally open

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



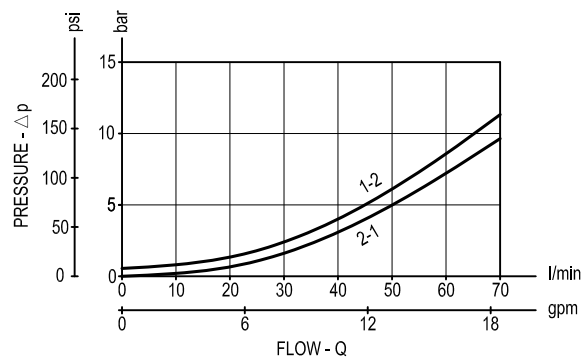
Version 4: Solenoid operated valve, poppet 2-way normally open



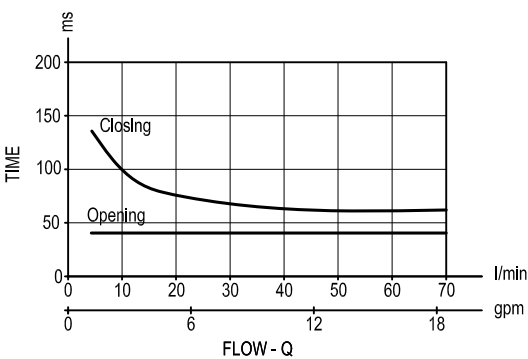
mm (Inches)

Performance graphs

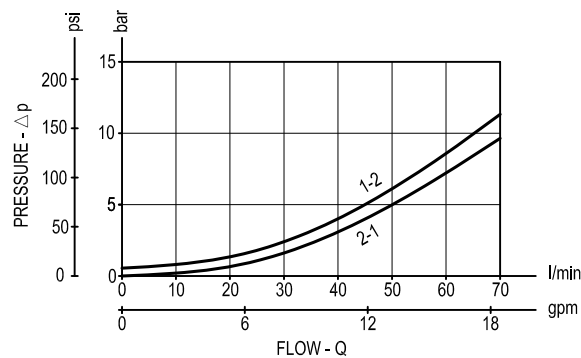
Version 1 - Version 2



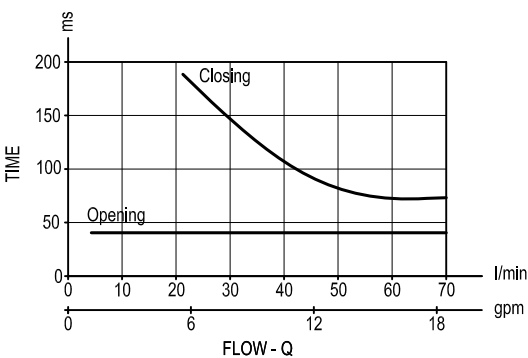
Standard



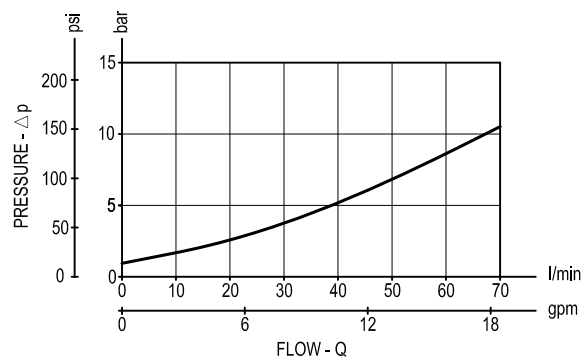
Version 3



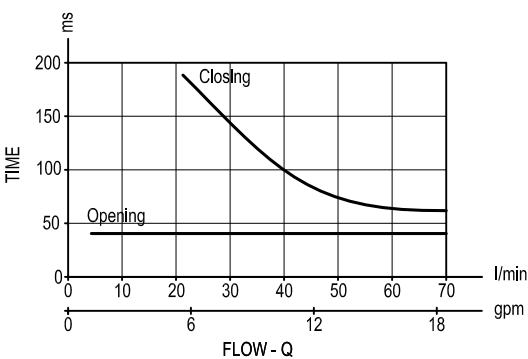
Standard



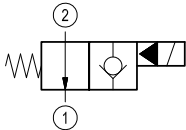
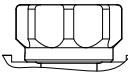
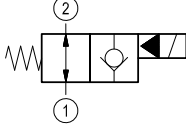
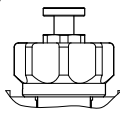
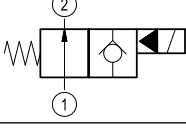
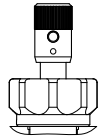
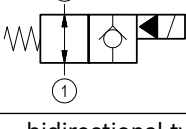
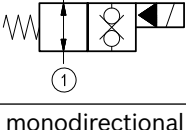
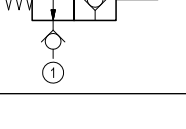
Version 4



Standard



Ordering code

OD.15 * 17 * S0				
Solenoid operated valves poppet type 2-way normally open				Tube not welded
monodirectional type				standard type
 = 02		1A =		
bidirectional type				Push style manual override
 = 06		1B =		
monodirectional type				Push and twist style manual override
 = 10		1C =		
bidirectional type				
 = 04			Special cavity: 017-E	
bidirectional type				
 = 32				
monodirectional type				
 = 12				

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

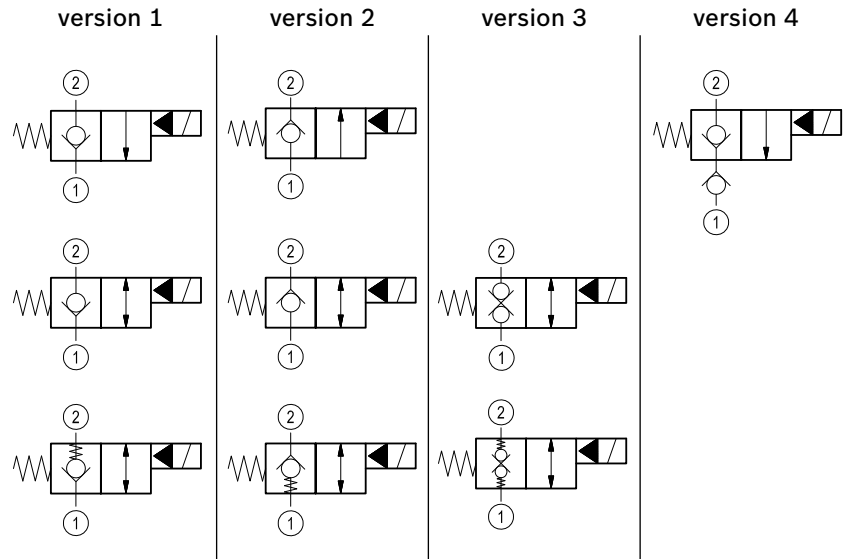
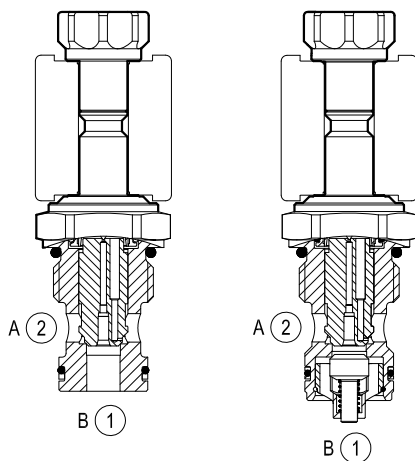
Type	Material number
OD1510171AS000	R934001051
OD1510171BS000	R934004148
OD1510171CS000	R934001052
OD1512171AS000	R934001090
OD1532171AS000	R901113683
OD1532171BS000	R901113684
OD1532171CS000	R934001189

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 material no. RG17E201052010 R934003562

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

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

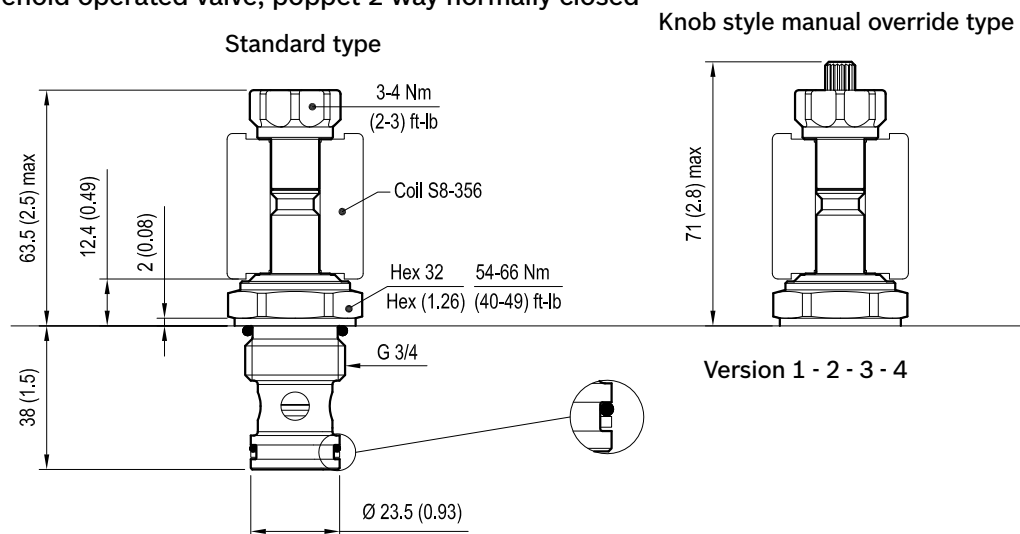
Electrical

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.

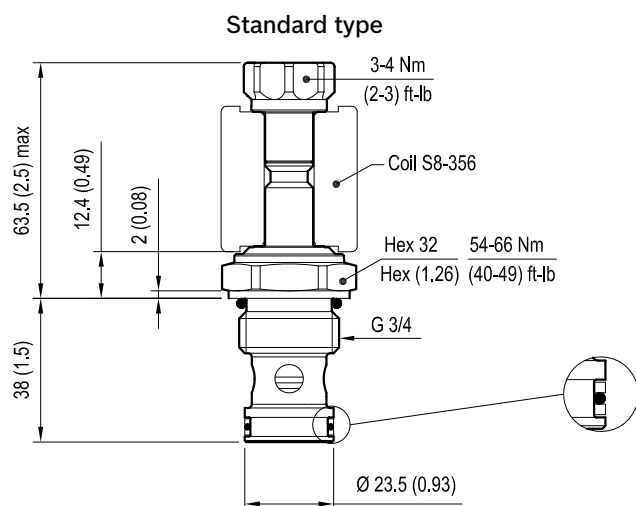
Dimensions

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

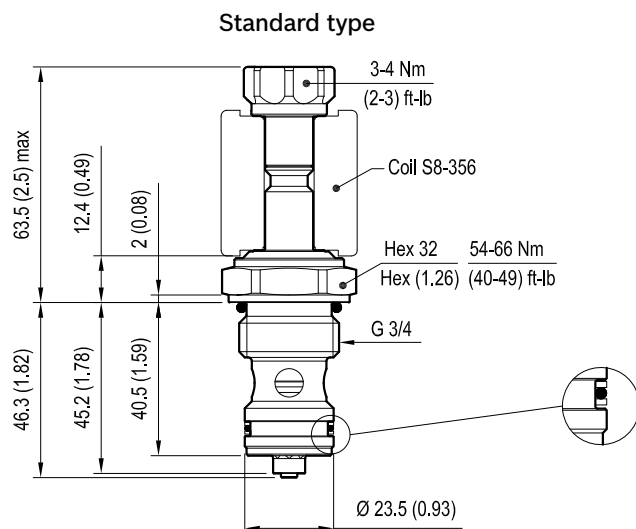


Version 2: Solenoid operated valve, poppet 2-way normally closed

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



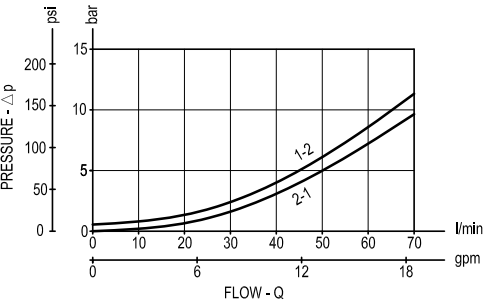
Version 4: Solenoid operated valve, poppet 2-way normally closed



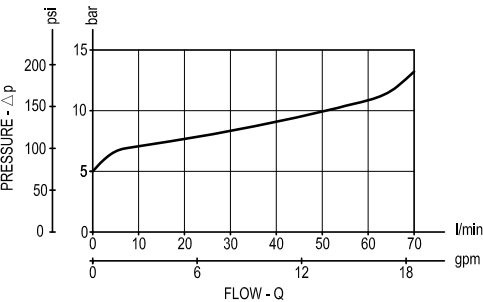
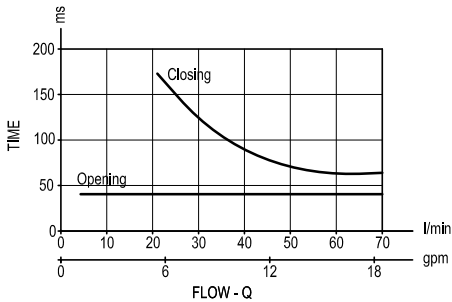
mm (Inches)

Performance graphs

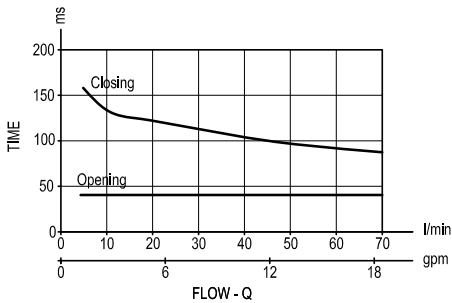
Version 1 - Version 2



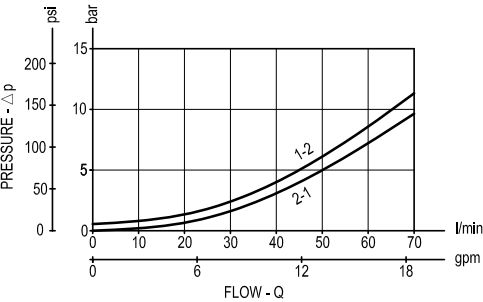
Standard



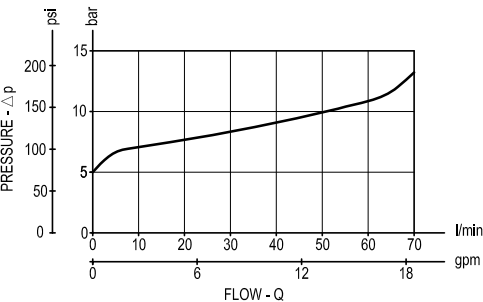
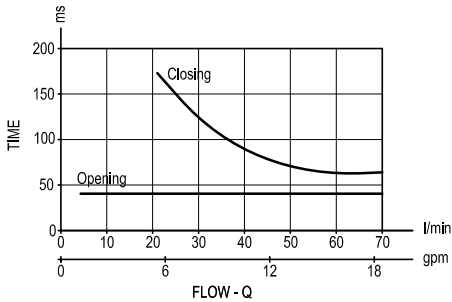
Extra spring



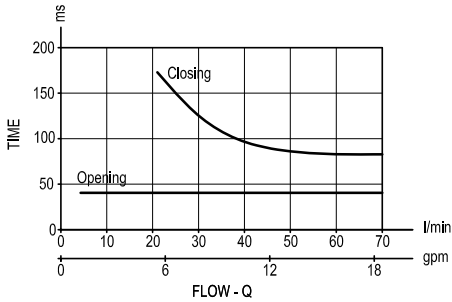
Version 3



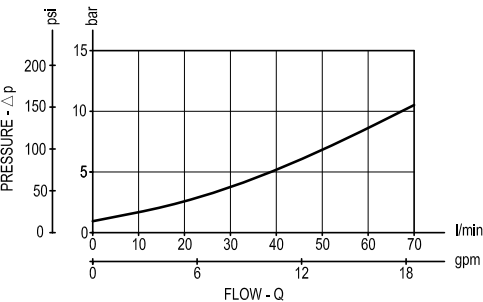
Standard



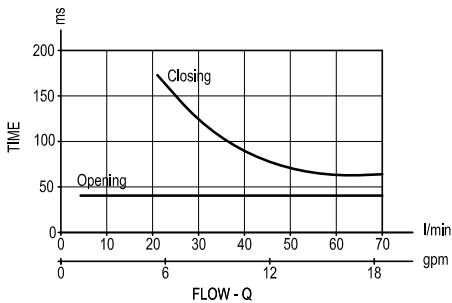
extra spring



Version 4



Standard

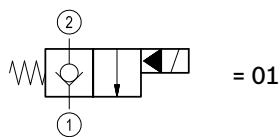


Ordering code

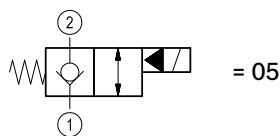
OD.15	*	17	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

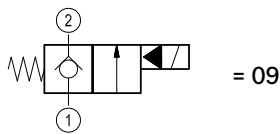
monodirectional type



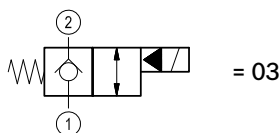
bidirectional type



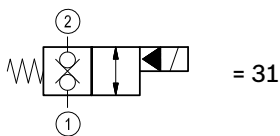
monodirectional type



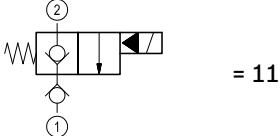
bidirectional type



bidirectional type

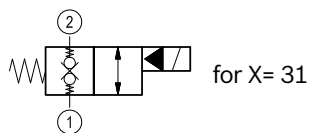
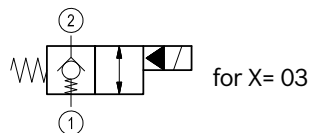
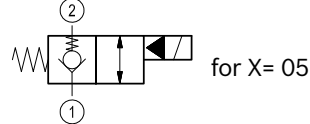


monodirectional type



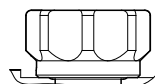
S0 = Tube not welded

S8 = Tube not welded with extra spring



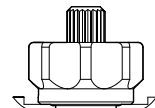
standard type

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

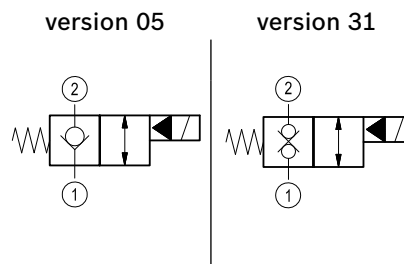
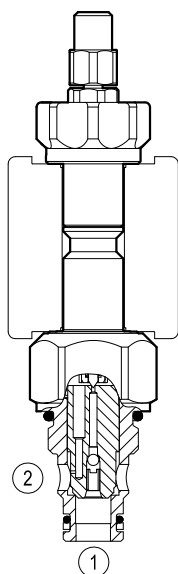
Type	Material number
OD1505173DS800	R934000846
OD1509173AS000	R934001038
OD1509173DS000	R934001039
OD1511173AS000	R934001072
OD1511173DS000	R934001075
OD1531173AS000	R901113682
OD1531173AS800	R934001116
OD1531173DS000	R934001120
OD1531173DS800	R934003111

Solenoid operated valves pilot operated poppet 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
Cavity		CA-08A-2N see RE 18325-70
Seal kit - version 05	code material no.	RG08A2010520100 R901101437
Seal kit - version 31	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

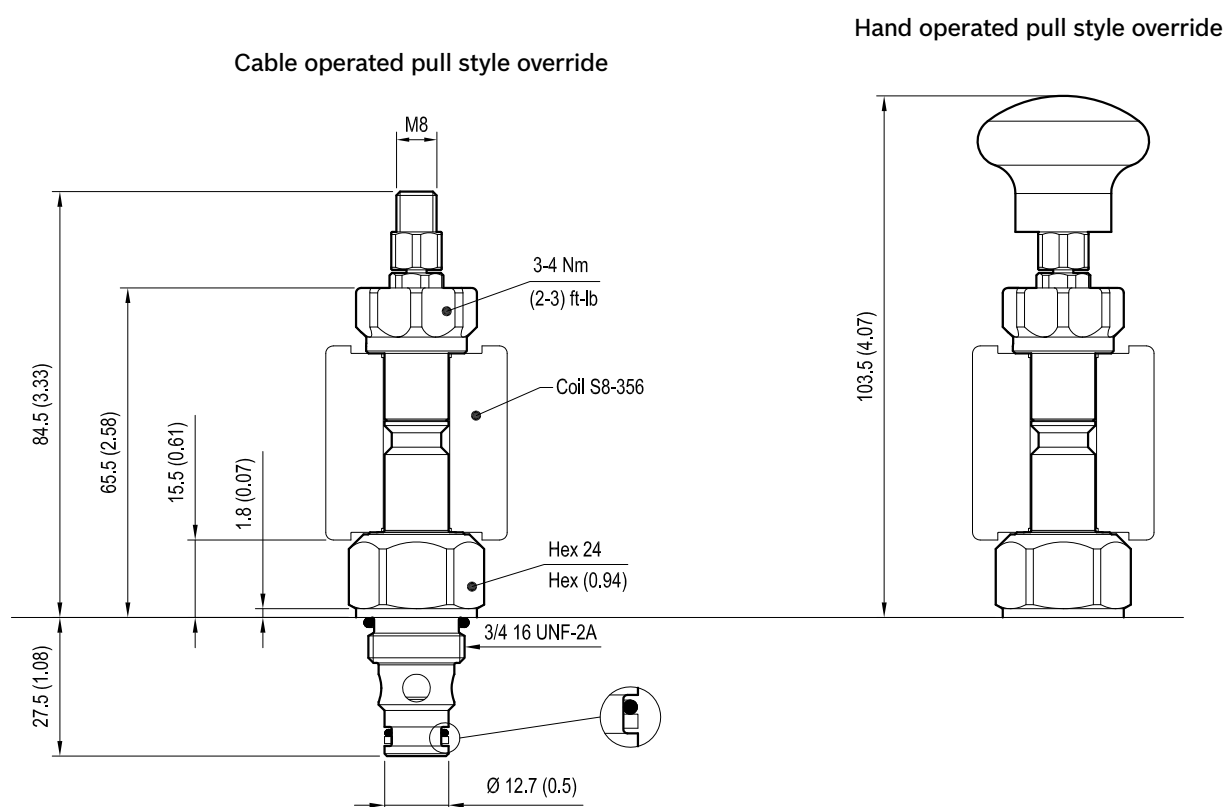
Electrical

Type of voltage	DC voltage
Coil type	S8-356 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

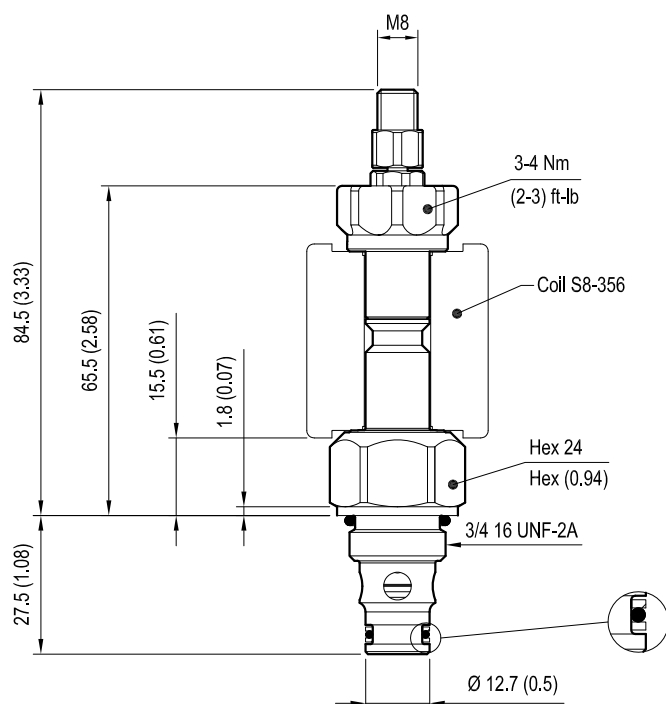
Note: Coils must be ordered separately.

Dimensions

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



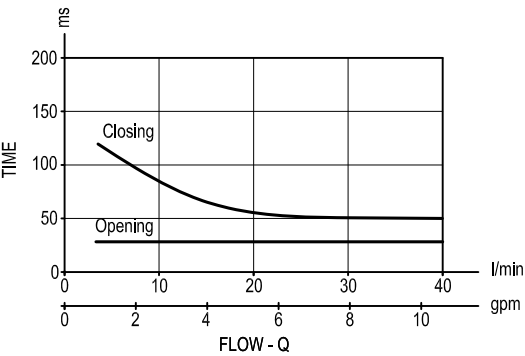
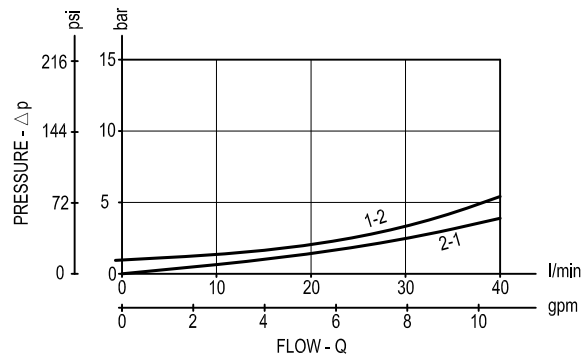
Version 31: Solenoid operated valves poppet 2-way double lock normally closed



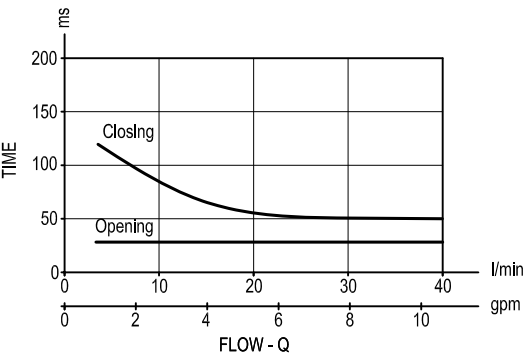
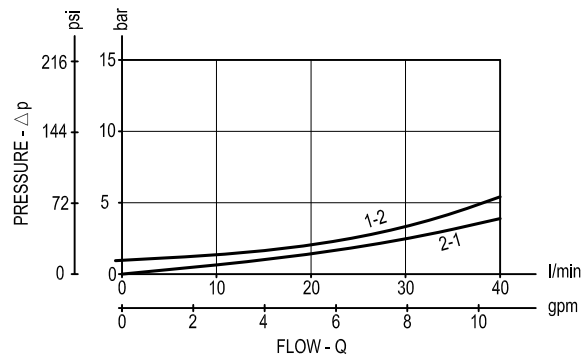
mm (Inches)

Performance graph

Version 05



Version 31



Ordering code

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

= 05

= 31

Cable operated pull style override

S0 =

Hand operated pull style override

S1 =

Common cavity: CA-08A-2N

Type	Material number
OD1505183CS000	R901094735
OD1505183CS100	R901094737
OD1531183CS000	R901109982
OD1531183CS100	R901109983

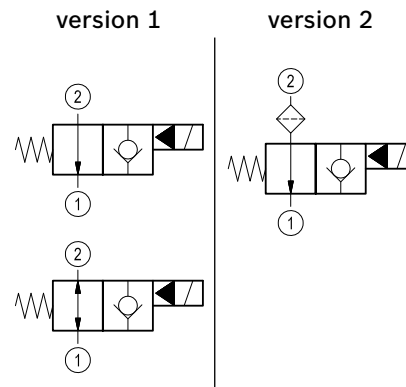
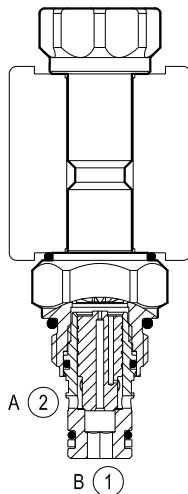
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally 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

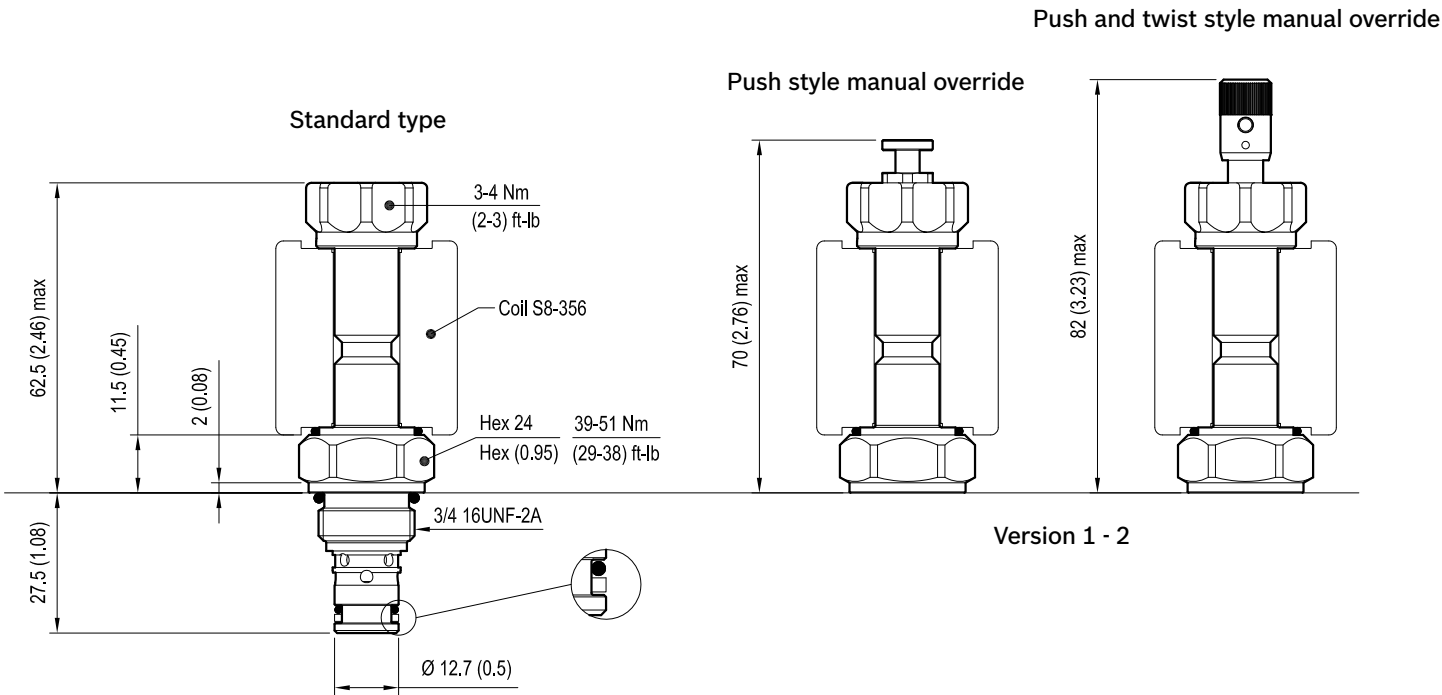
Electrical

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

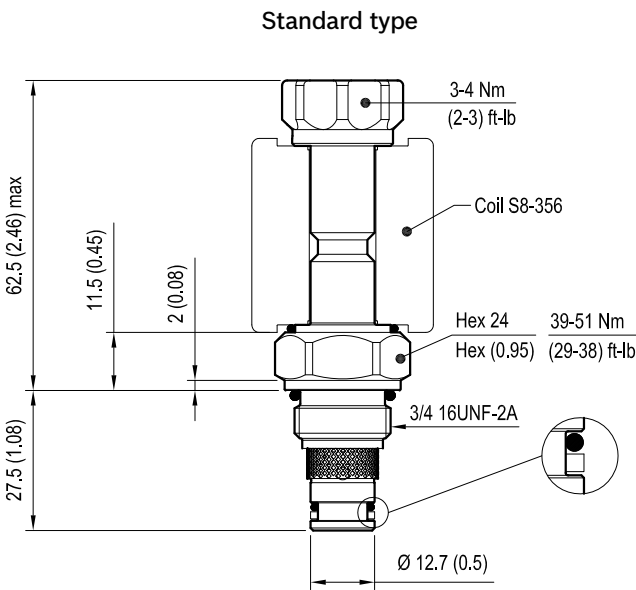
Note: Coils must be ordered separately.

Dimensions

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



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

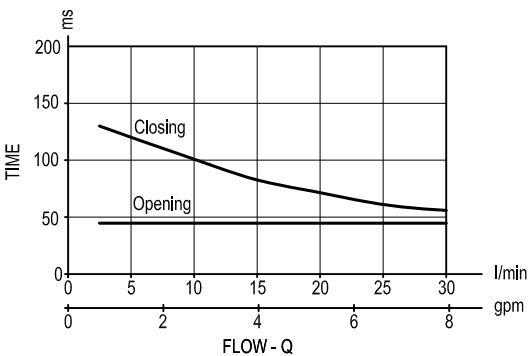
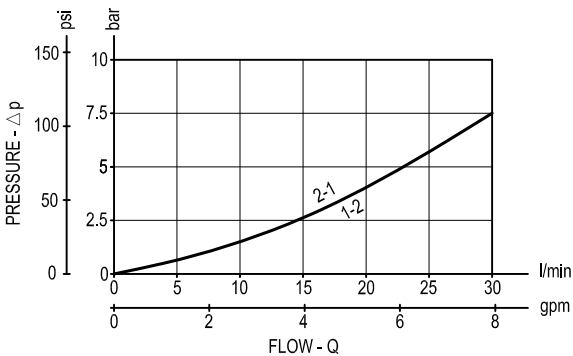


mm (Inches)

Performance graphs

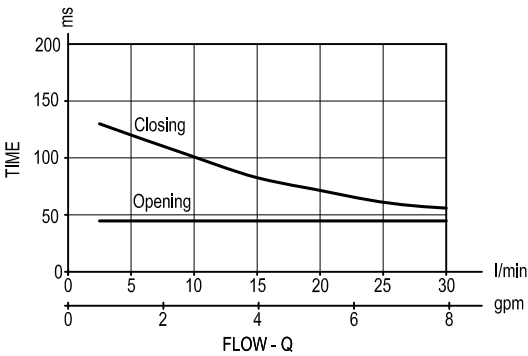
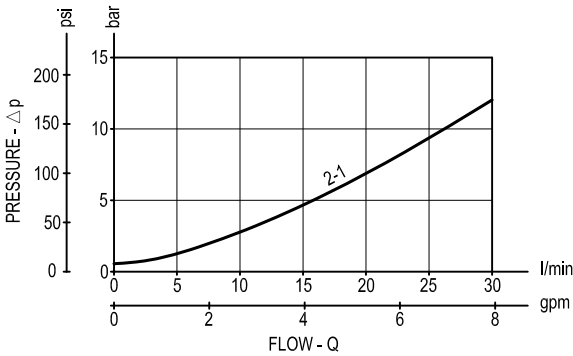
Version 1

Standard

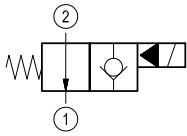
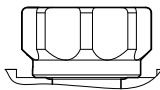
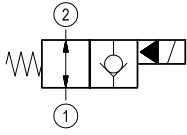
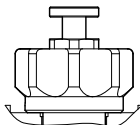
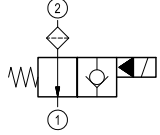
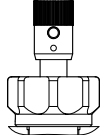


Version 2

Standard



Ordering code

OD.15		*	18	*	S0
Solenoid operated valves poppet type 2-way normally open		Tube not welded			
monodirectional type		standard type			
 = 02		1I = 			
bidirectional type		Push style manual override			
 = 06		1L = 			
monodirectional type with filter		Push and twist style manual override			
 = 08		1M = 			
Common cavity: CA-08A-2N					

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

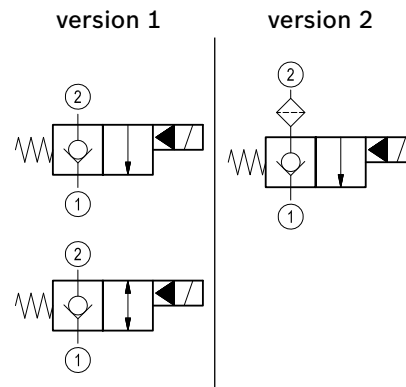
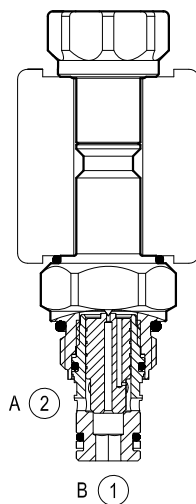
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally 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 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 version 1-2	code material no.	RG08A201052100 R901101437
Seal kit coil	code material no.	RG12I1PNBR7010 R934003957
Other technical data		See data sheet RE 18350-50

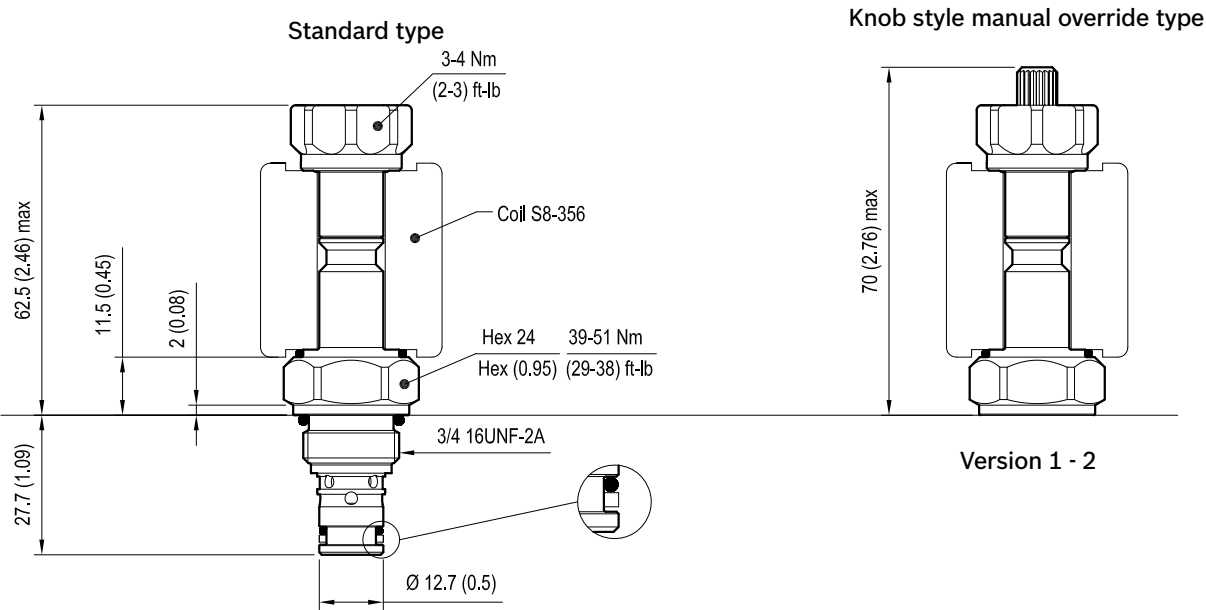
Electrical

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

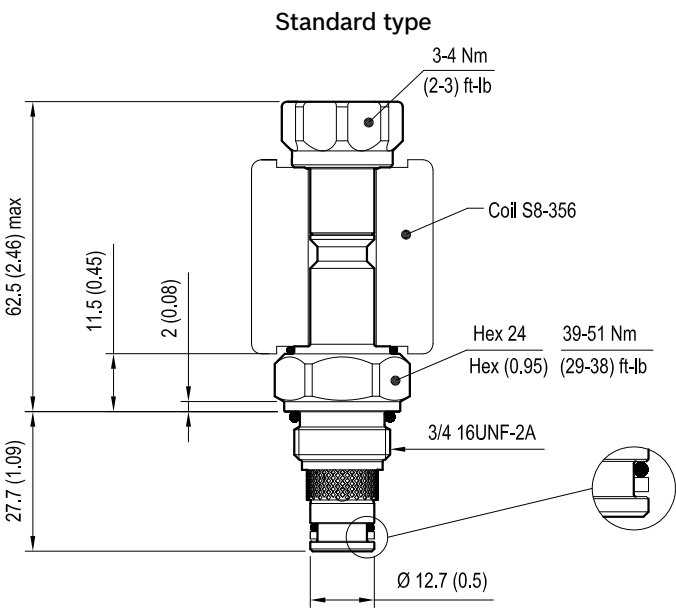
Note: Coils must be ordered separately.

Dimensions

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



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

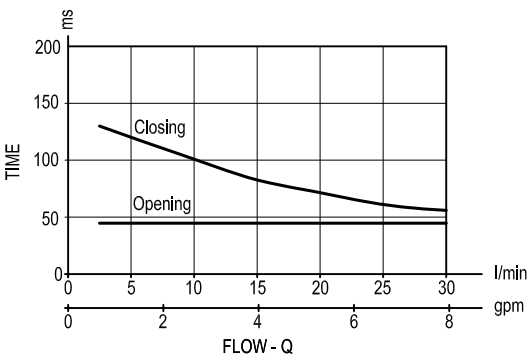
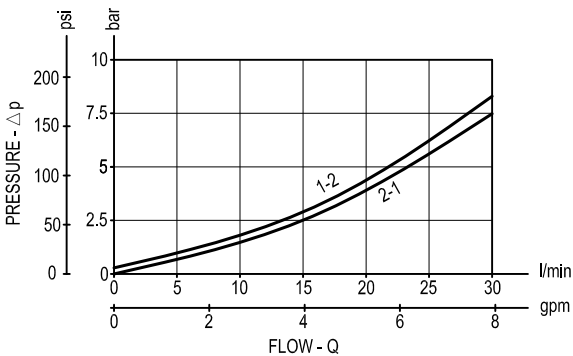


mm (Inches)

Performance graphs

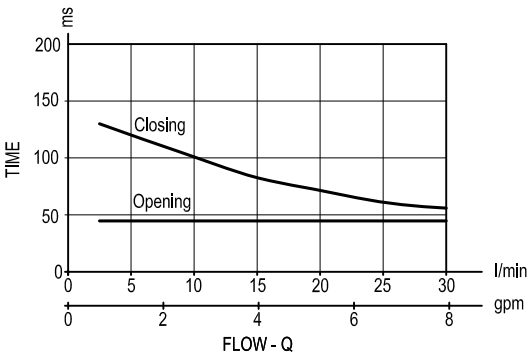
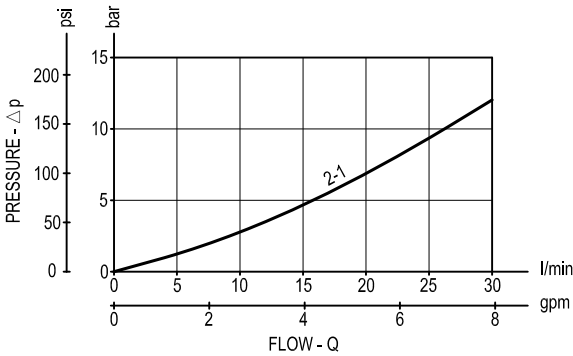
Version 1

Standard

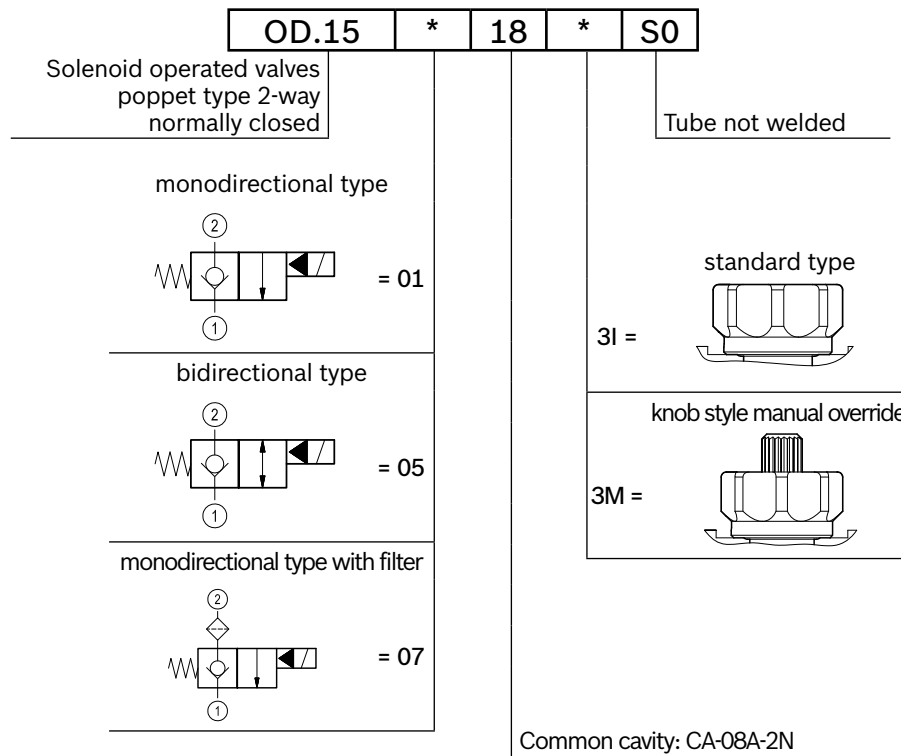


Version 2

Standard



Ordering code



Type	Material number
OD1501183IS000	R901090962
OD1501183MS00	R901090966
OD1505183IS000	R901090953
OD1505183MS00	R901090950
OD1507183IS000	R901091142
OD1507183MS00	R934003486

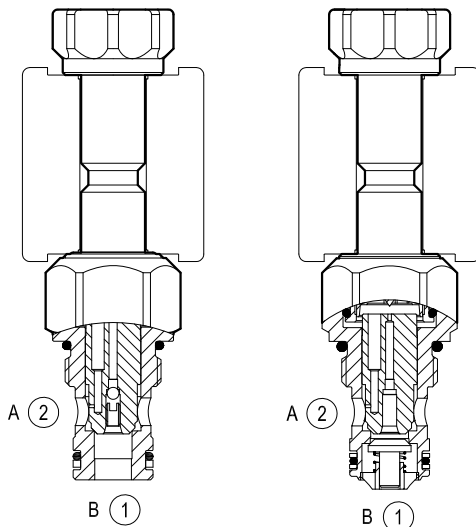
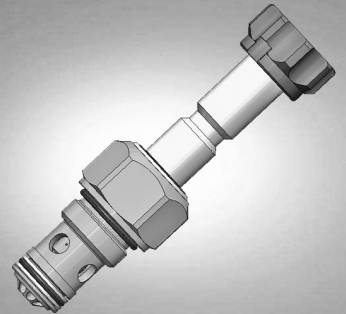
[illegible]

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

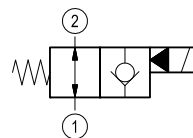
Special cavity, 019-E

VEI-8A-06-NA

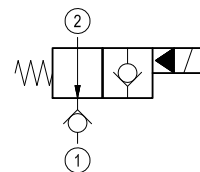
OD.15 - X - 19 - Z



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 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 06 code material no. RG19E201052010 R934003560

Seal kit version 12 code material no. RG19E201053010 R934003561

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

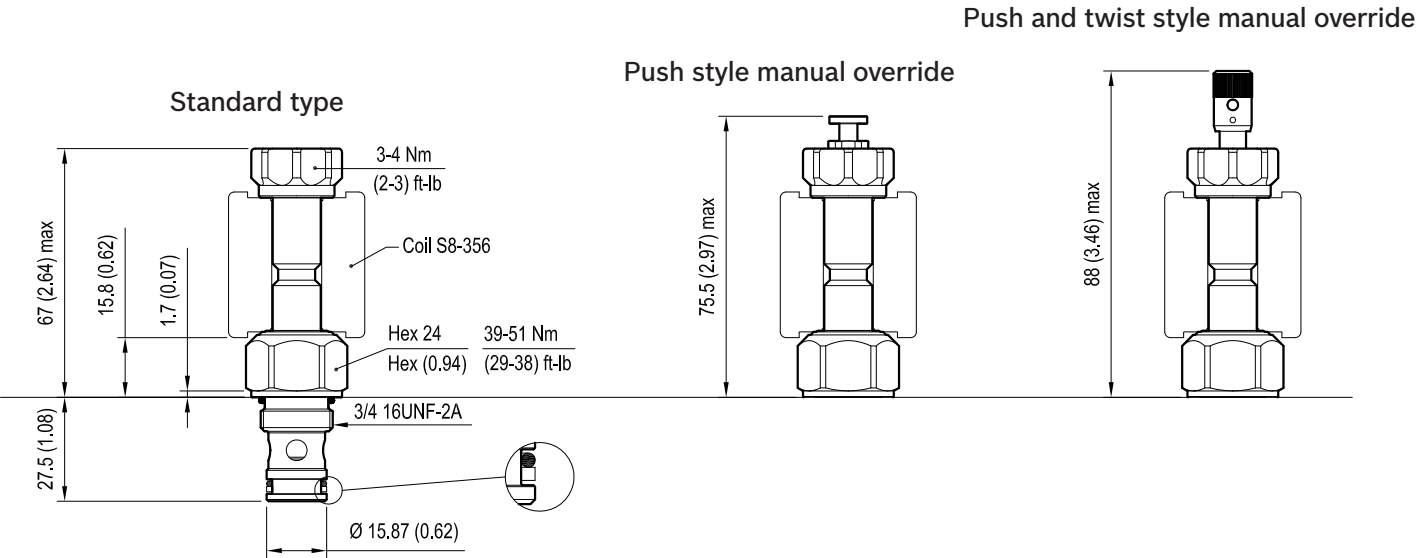
Electrical

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

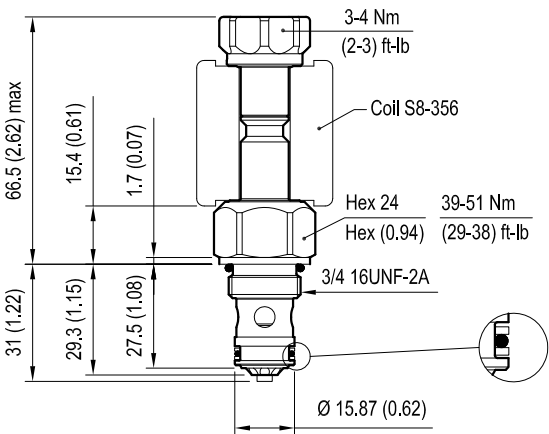
Note: Coils must be ordered separately.

Dimensions

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



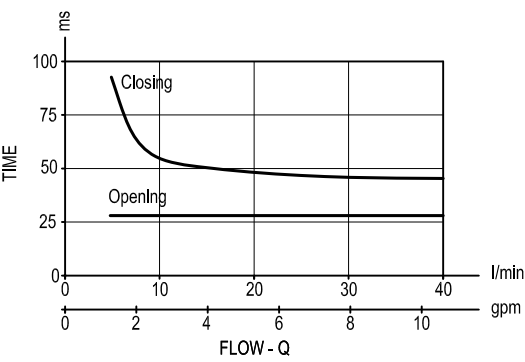
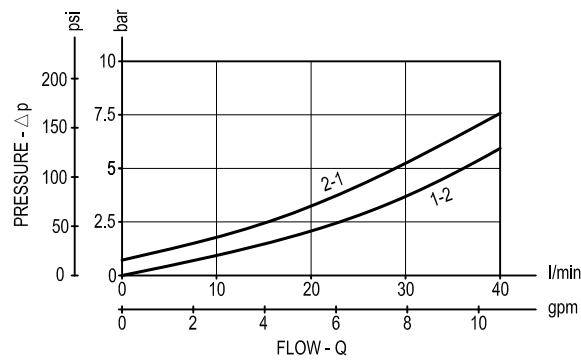
Version 12: Solenoid operated valve, poppet 2-way normally open



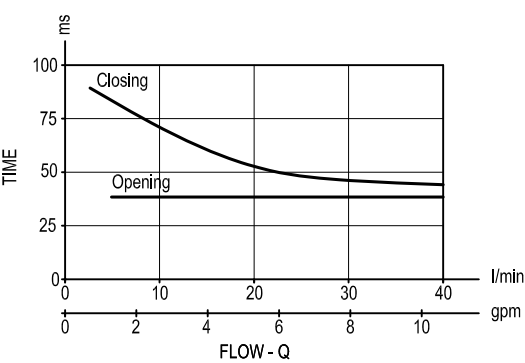
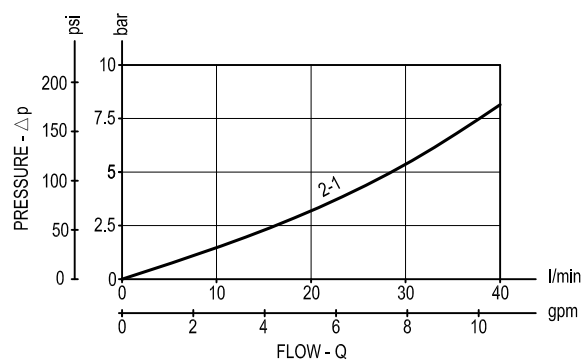
mm (Inches)

Performance graphs

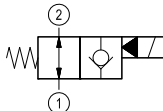
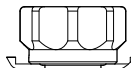
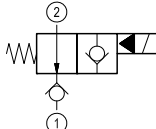
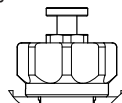
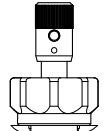
Version 06



Version 12



Ordering code

OD.15	X	19	Z	S0
<div>Solenoid operated valves poppet type 2-way normally open</div> <div>bidirectional type</div> <div></div> <div>06 =</div>				<div>Tube not welded</div> <div>standard type</div> <div></div> <div>1A =</div>
<div>monodirectional type</div> <div></div> <div>12 =</div>			<div>Push style manual override</div> <div></div> <div>1B =</div>	
			<div>Push and twist style manual override</div> <div></div> <div>1C =</div>	

Special cavity: 019-E

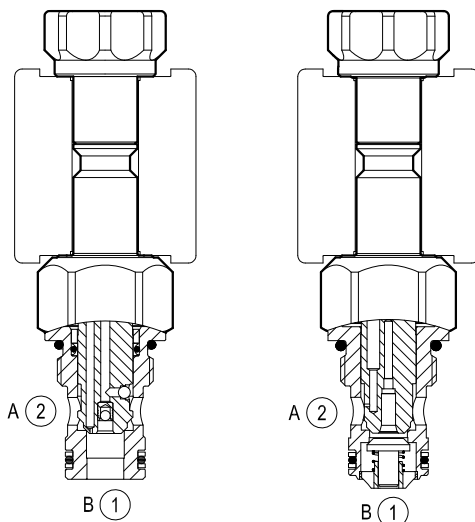
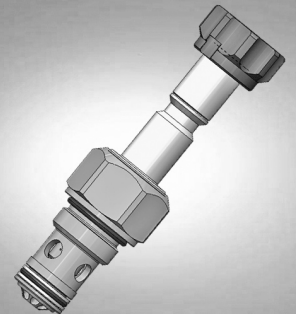
Type	Material number	Type	Material number
OD1506191AS000	R934000989		
OD1506191BS000	R934000990		
OD1506191CS000	R934000991		
OD1512191AS000	R901091159		
OD1512191BS000	R901091161		
OD1512191CS000	R901091162		

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

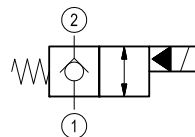
Special cavity, 019-E

VEI-8A-06-NC

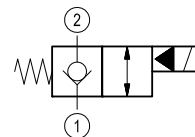
OD.15 - X - 19 - Z



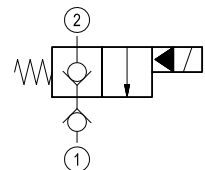
version 03



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 RG19E201053010 material no. R934003561

Seal kit version 05 code RG19E201052010 material no. R934003560

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

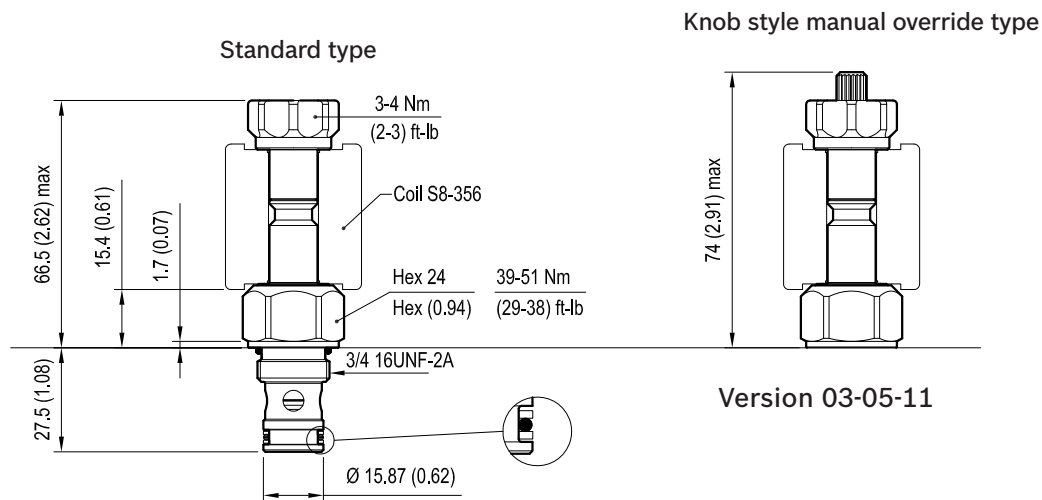
Electrical

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

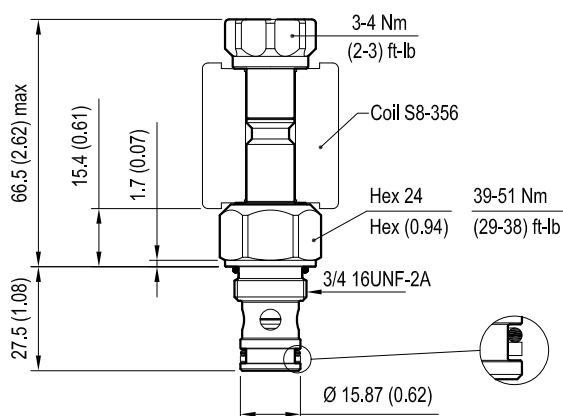
Note: Coils must be ordered separately.

Dimensions

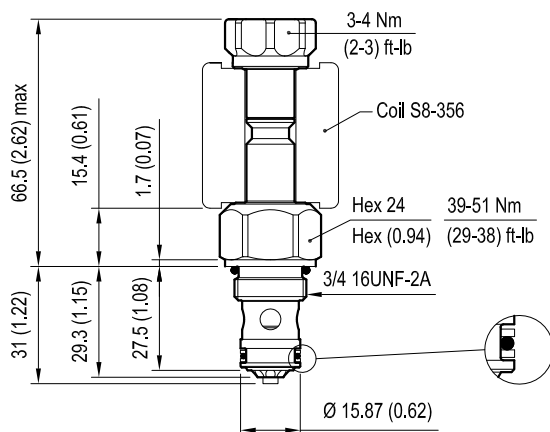
Version 03: Solenoid operated valve, poppet 2-way normally closed



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



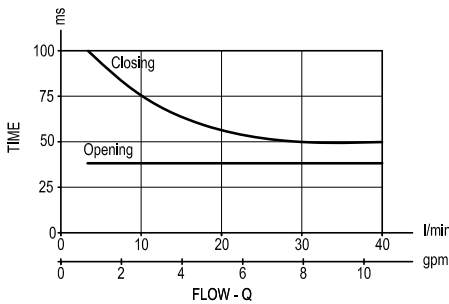
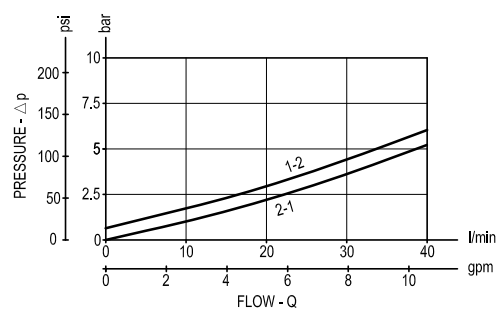
Version 11: Solenoid operated valve, poppet 2-way normally closed



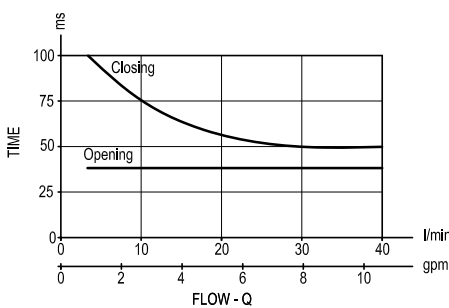
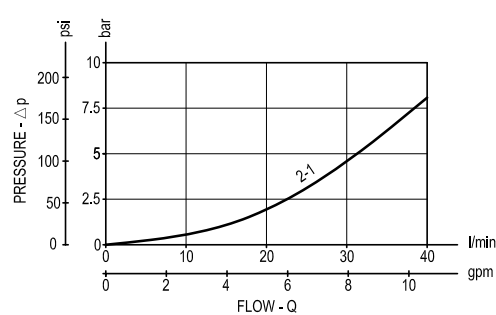
mm (Inches)

Performance graphs

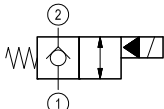
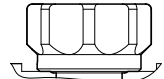
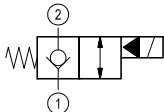
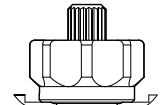
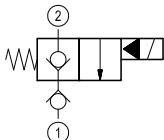
Version 03-05



Version 11



Ordering code

OD.15	X	19	Z	*
<p>Solenoid operated valves poppet type 2-way normally closed</p>		<p>S0 = Tube not welded</p>		
<p>bidirectional type</p>  <p>03 =</p>		<p>standard type</p>  <p>3A =</p>		
<p>bidirectional type</p>  <p>05 =</p>		<p>knob style manual override</p>  <p>3D =</p>		
<p>monodirectional type</p>  <p>11 =</p>		<p>Special cavity: 019-E</p>		

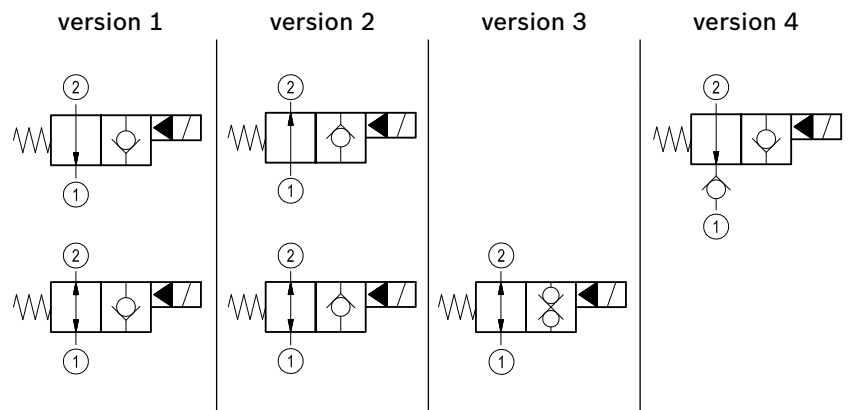
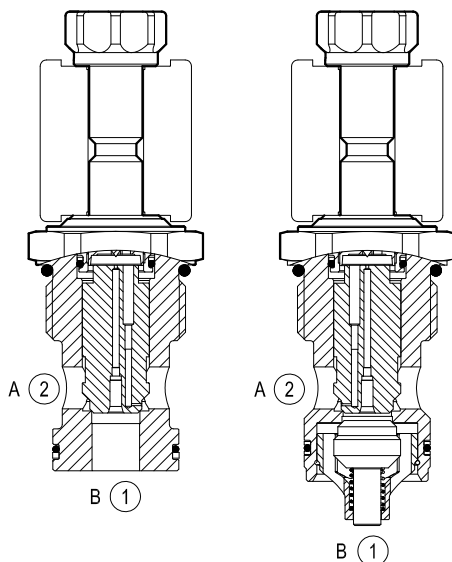
Type	Material number	Type	Material number
OD1503193AS00	R934000785		
OD1503193DS00	R934000786		
OD1505193AS00	R934000895		
OD1505193DS00	R934000898		
OD1511193AS000	R901091157		
OD1511193DS000	R901091158		

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



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 mm ² /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 material no.	RG21E201052010 R934003566
Seal kit - version 2-3-4	code material no.	RG21E201053010 R934003567
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

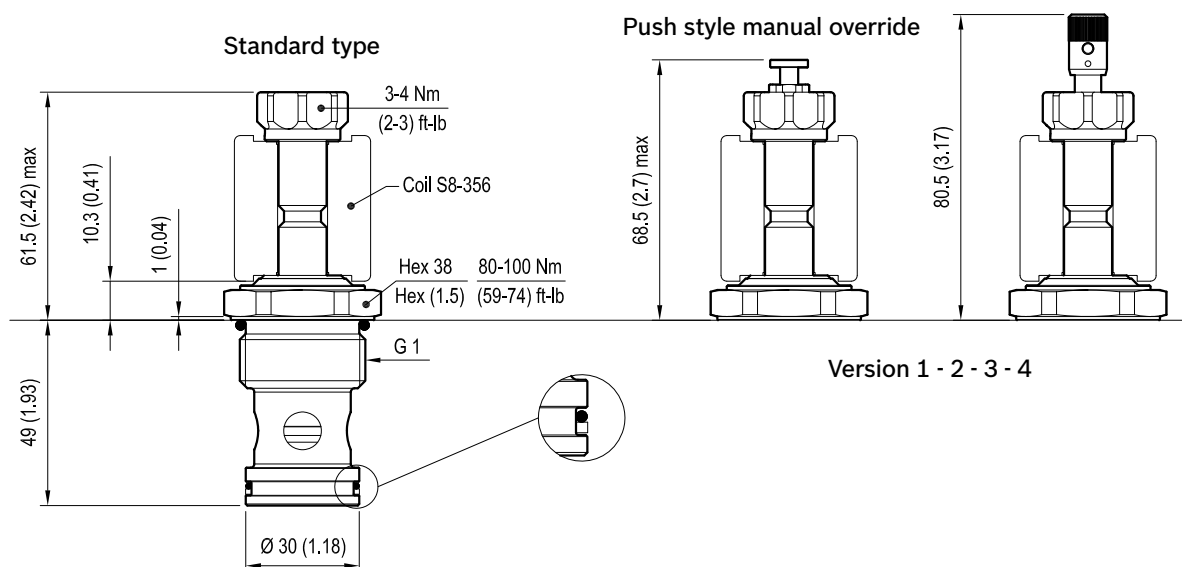
Electrical

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.

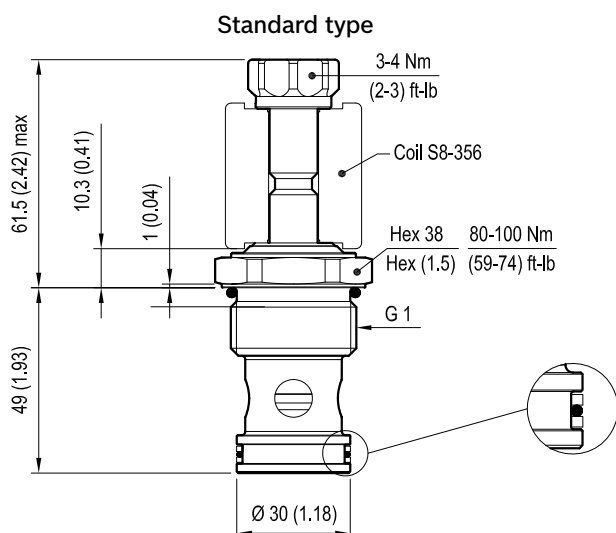
Dimensions

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

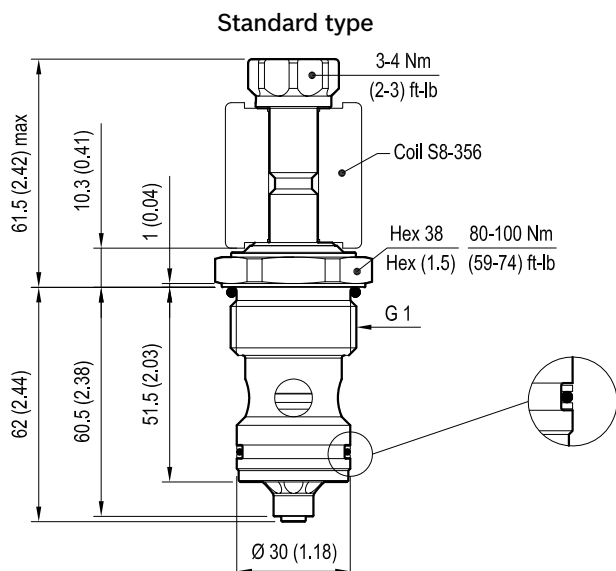


Version 2: Solenoid operated valve, poppet 2-way normally open

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



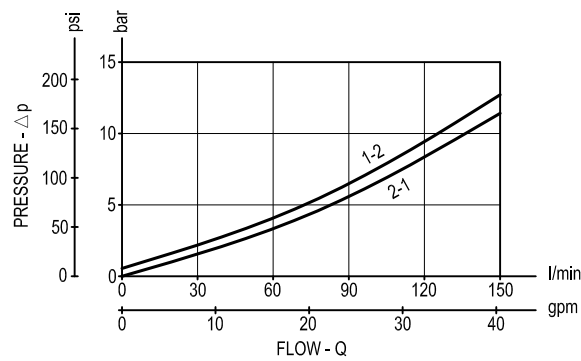
Version 4: Solenoid operated valve, poppet 2-way normally open



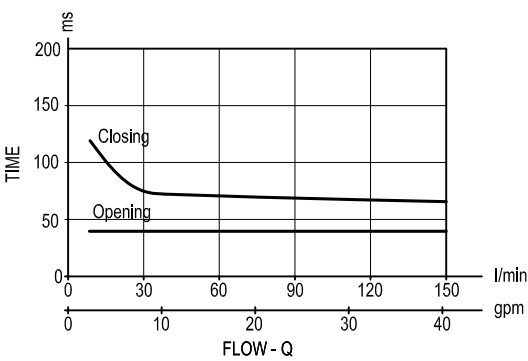
mm (Inches)

Performance graphs

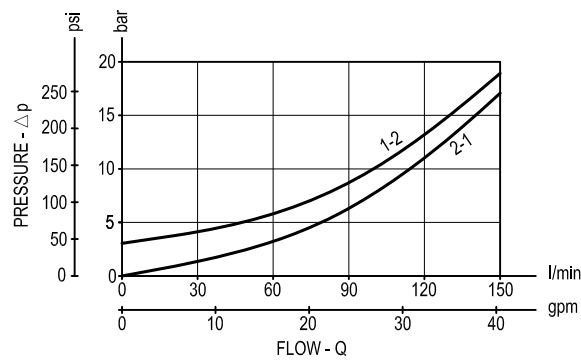
Version 1 - Version 2



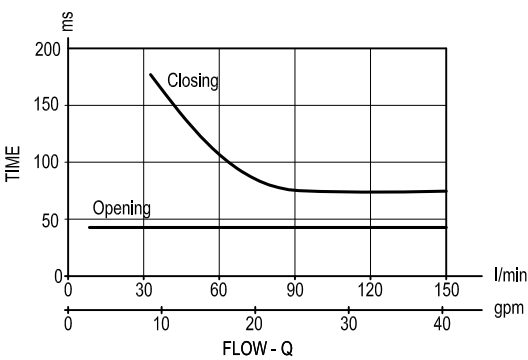
Standard



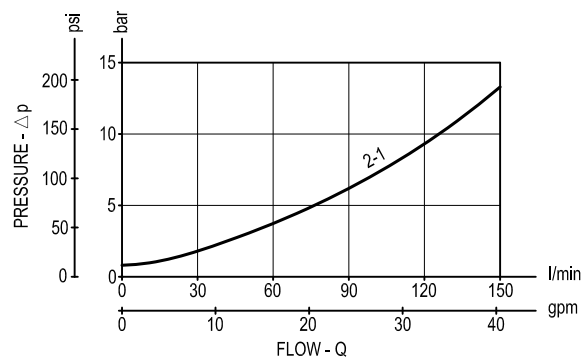
Version 3



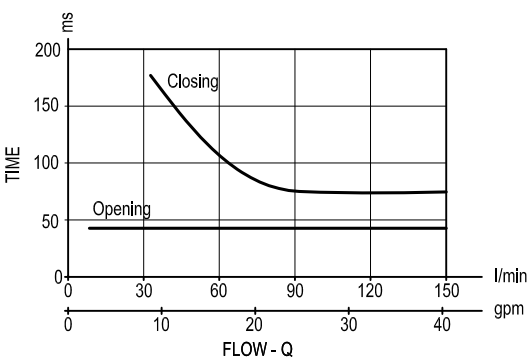
Standard



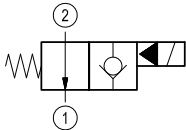
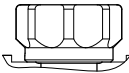
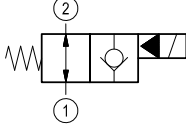
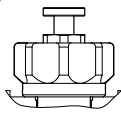
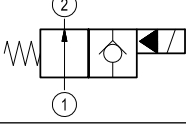
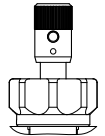
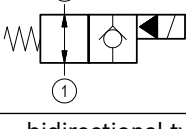
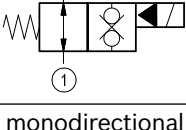
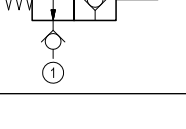
Version 4



Standard



Ordering code

OD.15 * 21 * S0				
Solenoid operated valves poppet type 2-way normally open				Tube not welded
monodirectional type				standard type
 = 02		1A =		
bidirectional type				Push style manual override
 = 06		1B =		
monodirectional type				Push and twist style manual override
 = 10		1C =		
bidirectional type				
 = 04		Special cavity: 021-E		
bidirectional type				
 = 32				
monodirectional type				
 = 12				

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

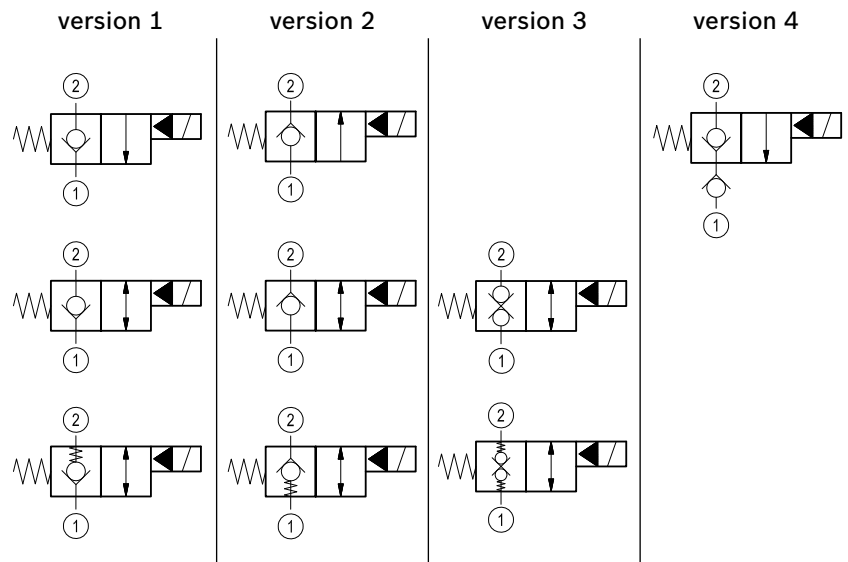
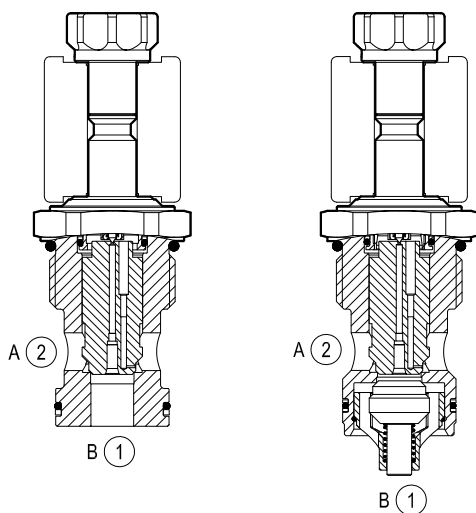
Type	Material number
OD1510211AS000	R901085464
OD1510211BS000	R934001061
OD1512211AS000	R934001100
OD1512211BS000	R934001101
OD1512211CS000	R934001102
OD1532211AS000	R901104415
OD1532211BS000	R901113685
OD1532211CS000	R901191824

Solenoid operated valves pilot operated poppet type 2-way normally 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 mm ² /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 material no.	RG21E201052010 R934003566
Seal kit - version 2-3	code material no.	RG21E201053010 R934003567
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data	See data sheet RE 18350-50	

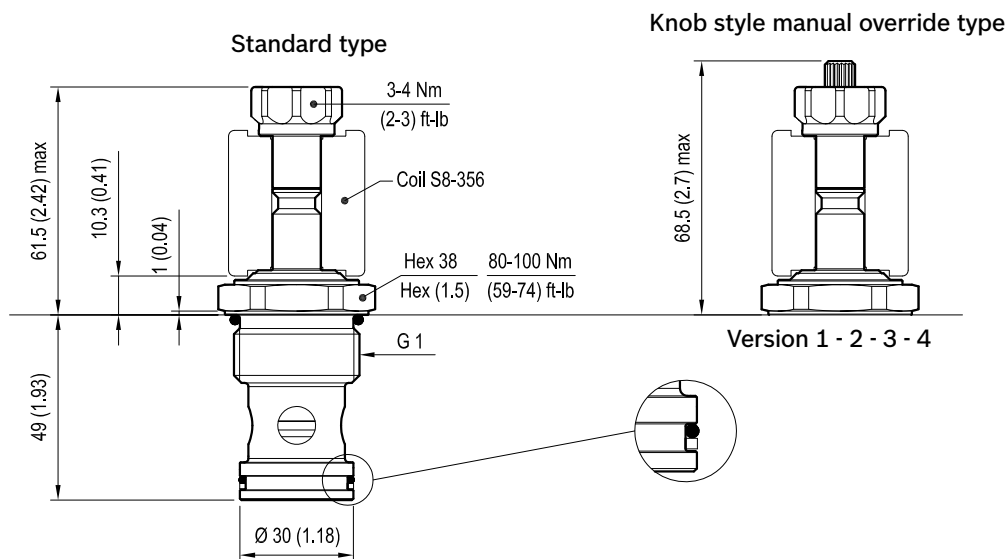
Electrical

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.

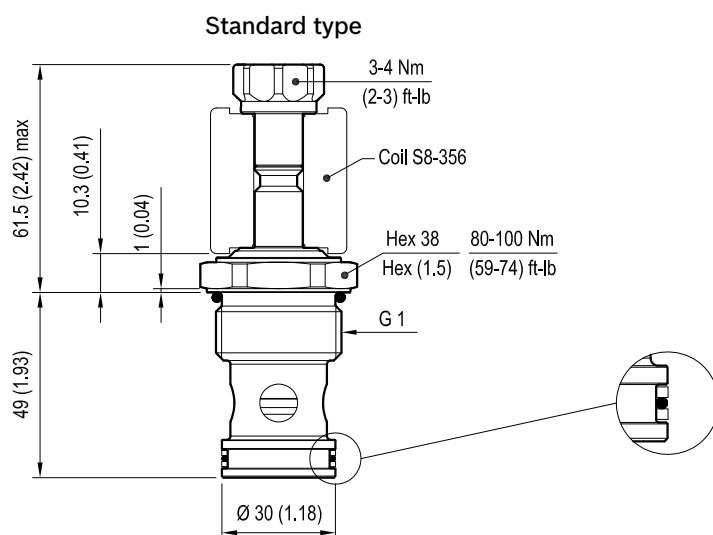
Dimensions

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

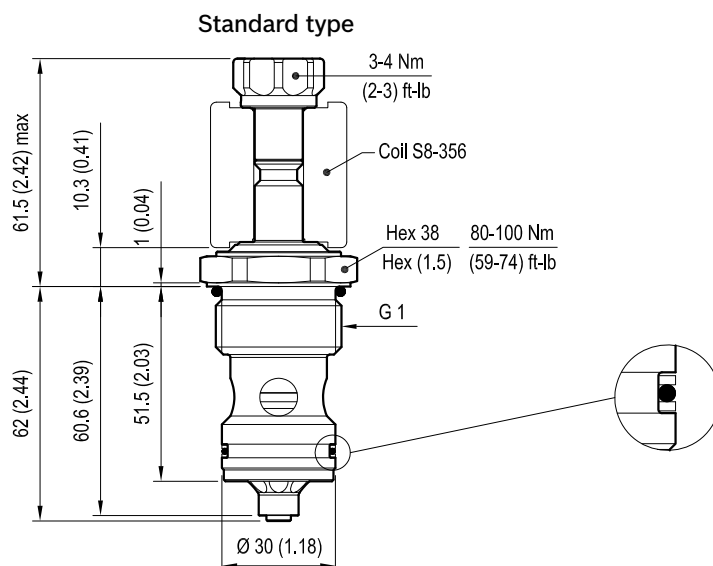


Version 2: Solenoid operated valve, poppet 2-way normally closed

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



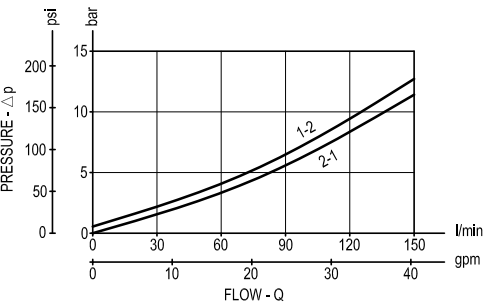
Version 4: Solenoid operated valve, poppet 2-way normally closed



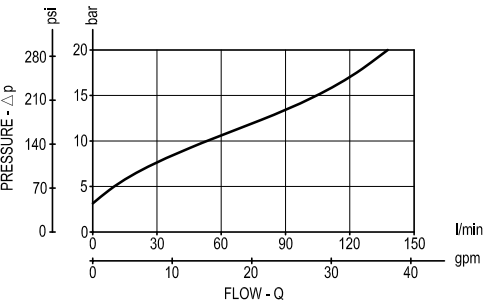
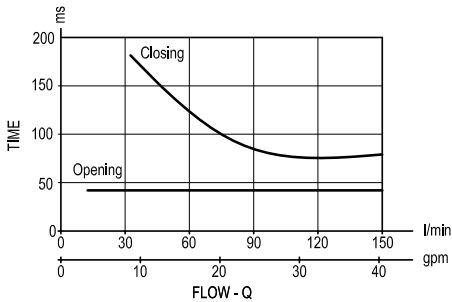
mm (Inches)

Performance graphs

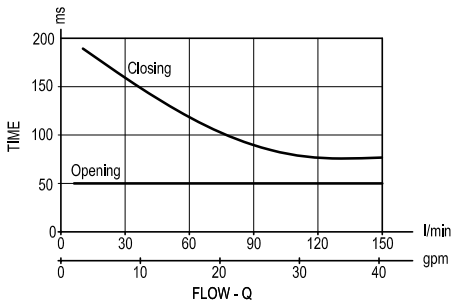
Version 1 - Version 2



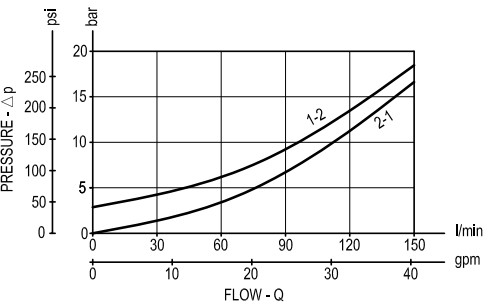
Standard



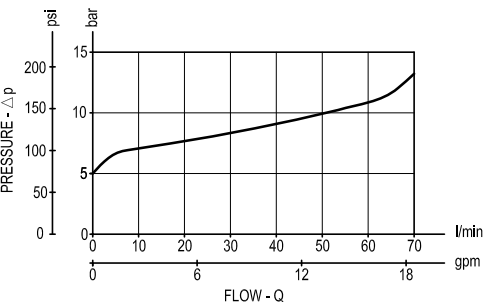
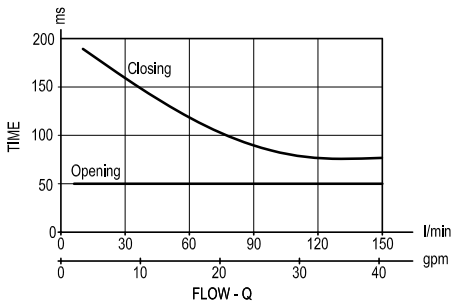
Extra spring



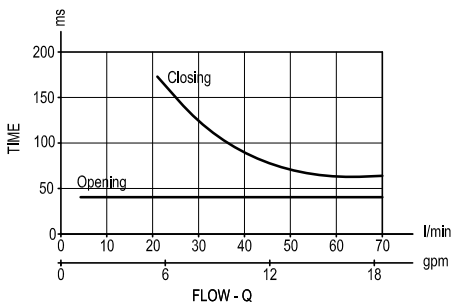
Version 3



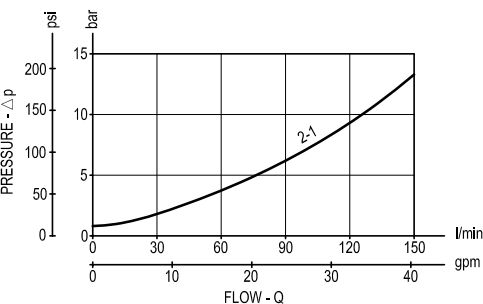
Standard



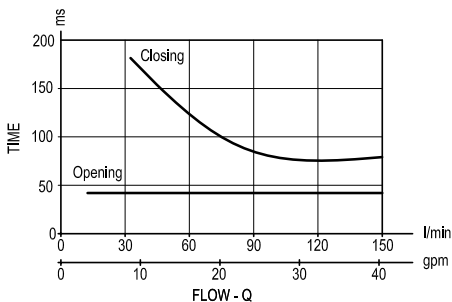
Extra spring



Version 4



Standard

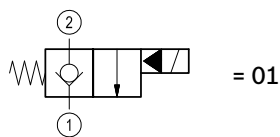


Ordering code

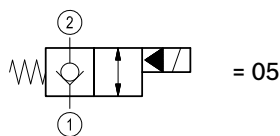
OD.15	*	21	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

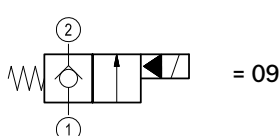
monodirectional type



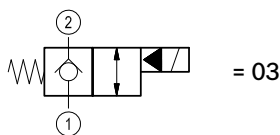
bidirectional type



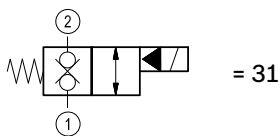
monodirectional type



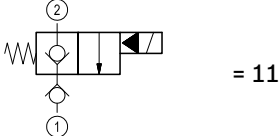
bidirectional type



bidirectional type

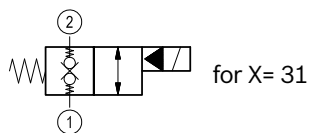
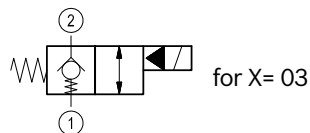
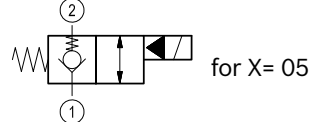


monodirectional type



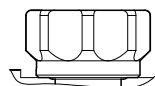
S0 = Tube not welded

S8 = Tube not welded with extra spring



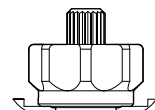
standard type

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

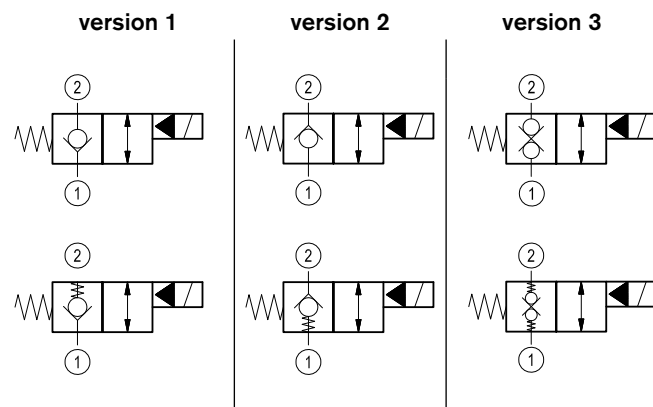
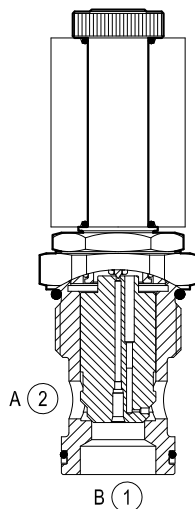
Type	Material number
OD1505213DS000	R901119267
OD1509213AS000	R901132881
OD1511213AS000	R901138183
OD1511213AS800	R934001086
OD1531213AS000	R901104412
OD1531213AS800	R901119002
OD1531213DS000	R901132876
OD1531213DS800	R901125793

Solenoid operated valves poppet type 2-way normally closed

Special cavity, 021-E

VEI-7A-14-NC

OD.15 - X - 21 - Y - Z - S0



General

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

Hydraulic

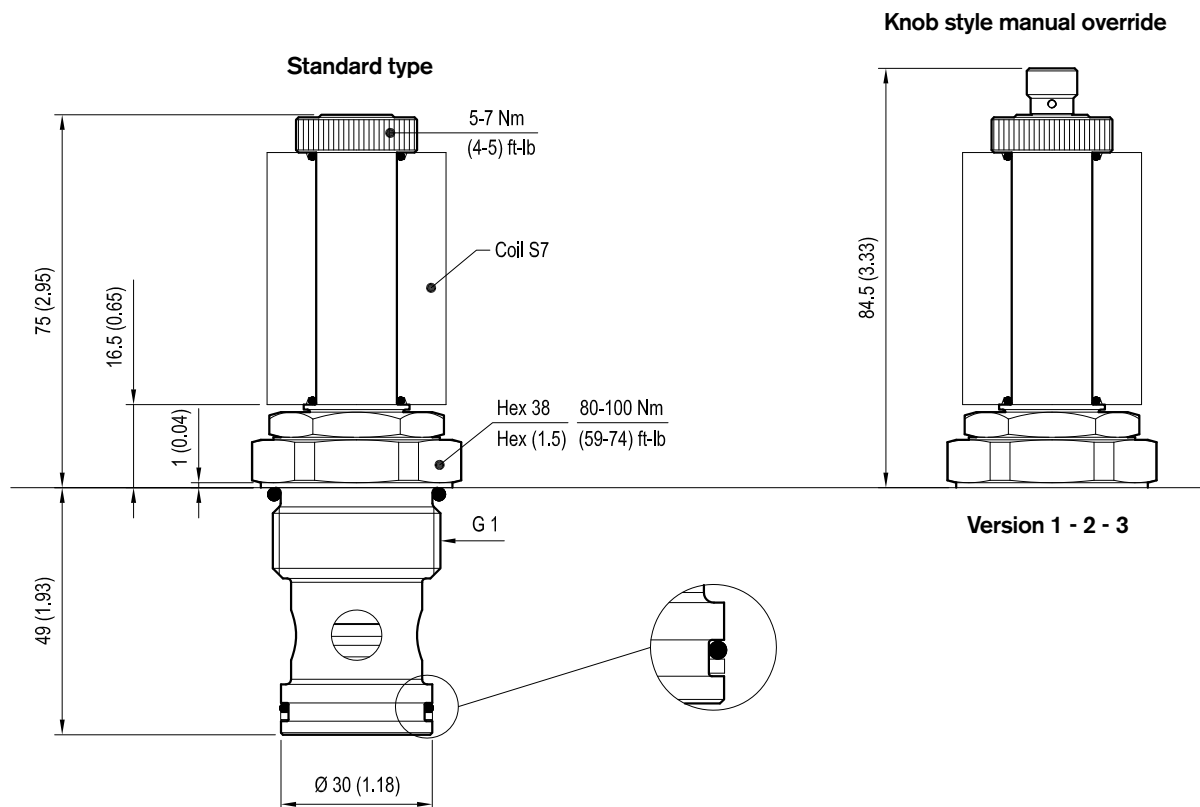
Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min. (gpm)	5-200 (1-53)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	40 at 46 est (104 at 115 est)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	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	code	...
	material no.	...
Other technical data		See data sheet RE 18350-50

Electrical

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

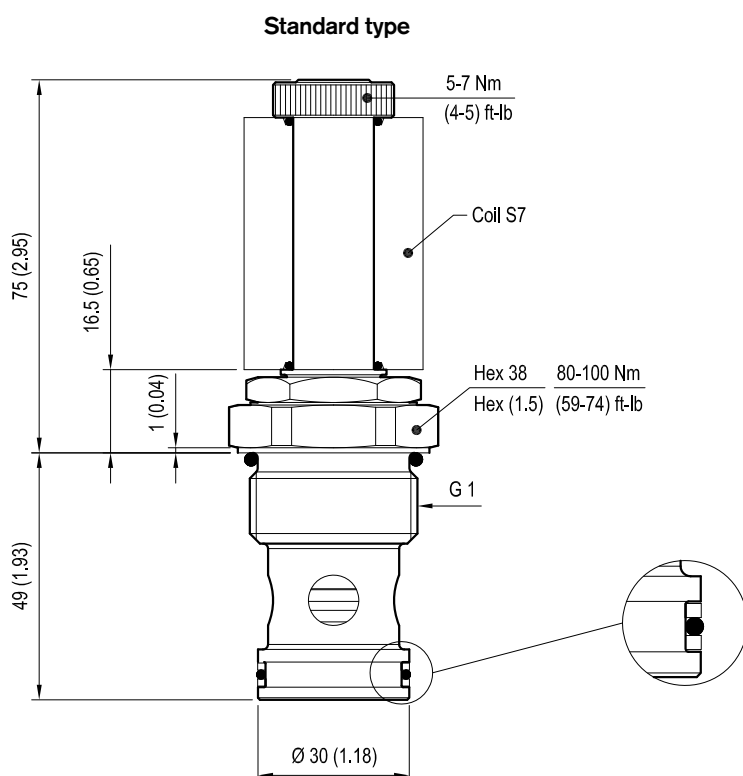
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed - leakage PORT A (2)



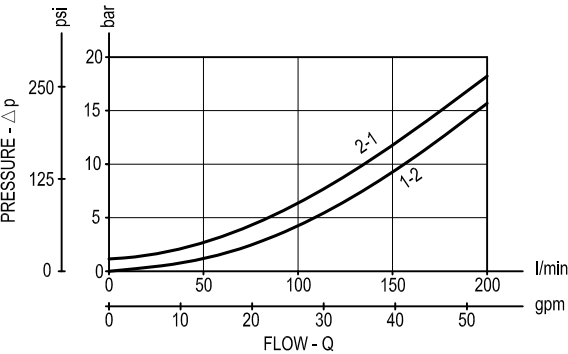
Version 2: Solenoid operated valve, poppet 2-way normally closed - leakage PORT B (1)

Version 3: Solenoid operated valve, poppet 2-way double lock normally closed - leakage PORT B (1)

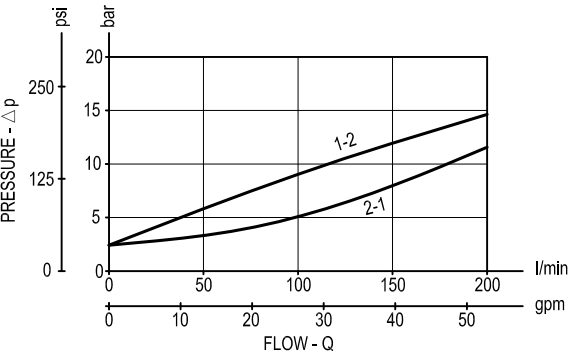
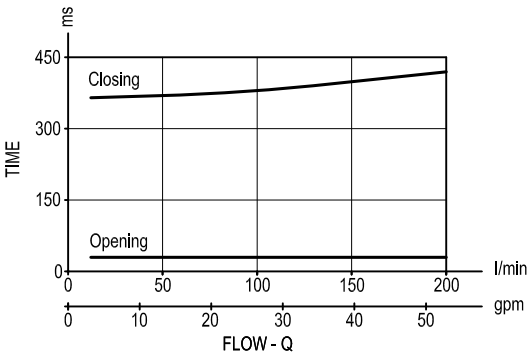


Performance graphs

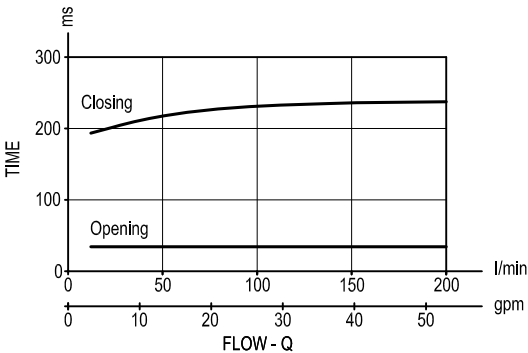
Version 1 - Version 2



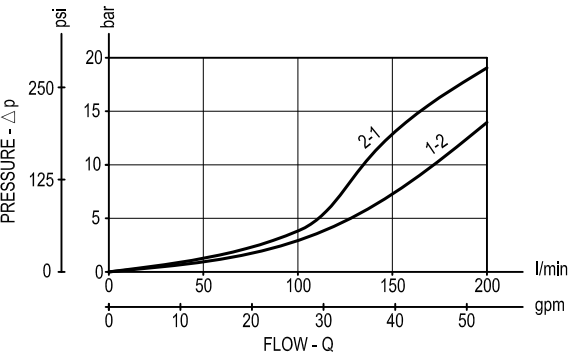
Standard



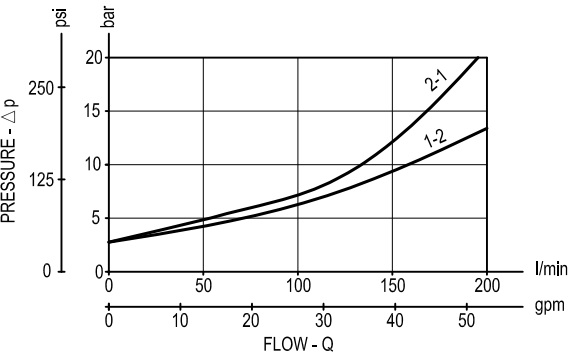
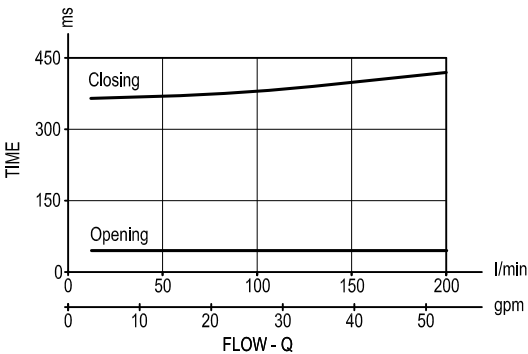
Extra spring



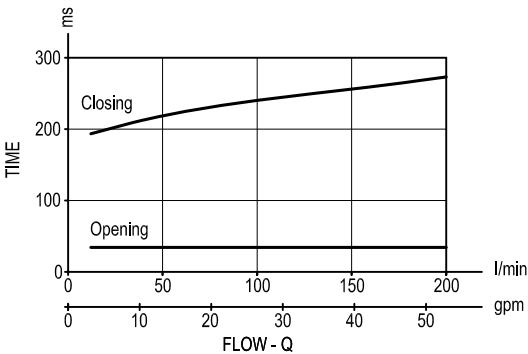
Version 3



Standard



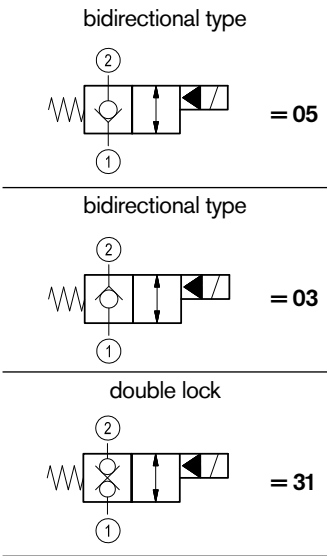
Extra spring



Ordering code

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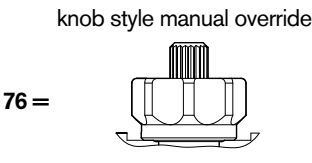
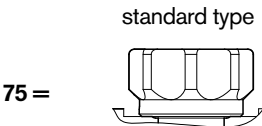
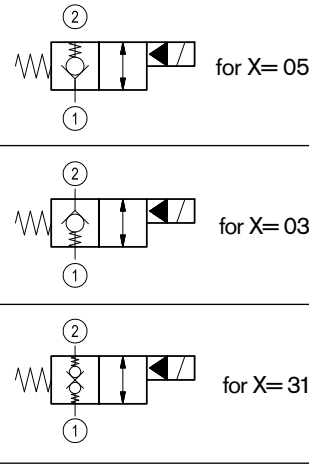
Solenoid operated valves
poppet type 2-way normally
closed



Special cavity: 021-E

S0 = Tube not welded

S8 = Tube not welded with extra spring



Type	Material number

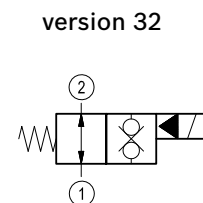
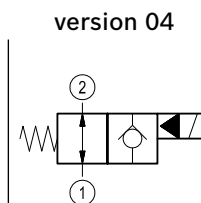
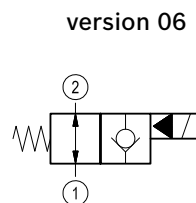
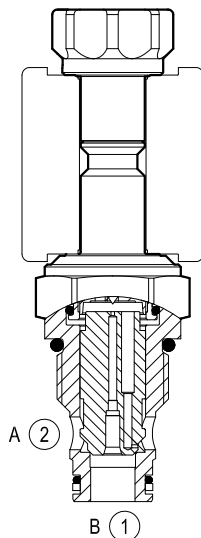
Type	Material number

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



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)	
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Installation torque	Nm (ft-lbs)	44-56 (33-42)
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Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
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Cavity	CA-10A-2N see RE 18325-75	
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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	
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Electrical

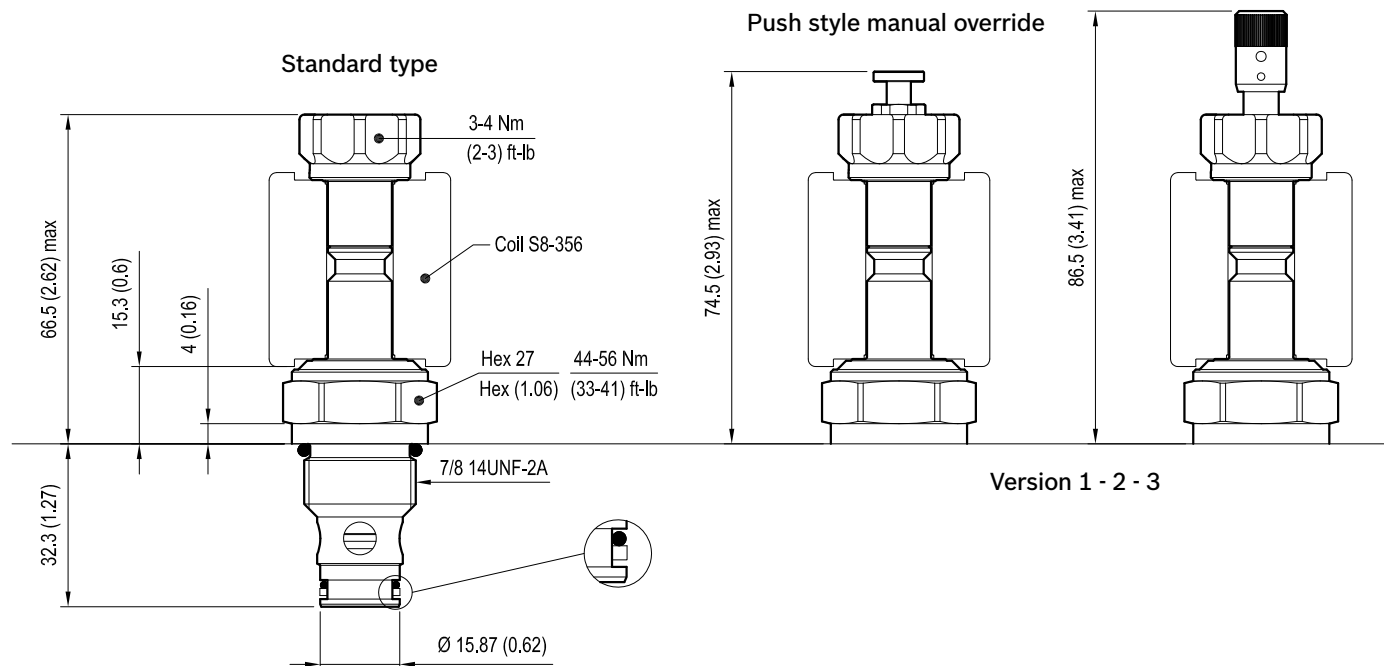
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

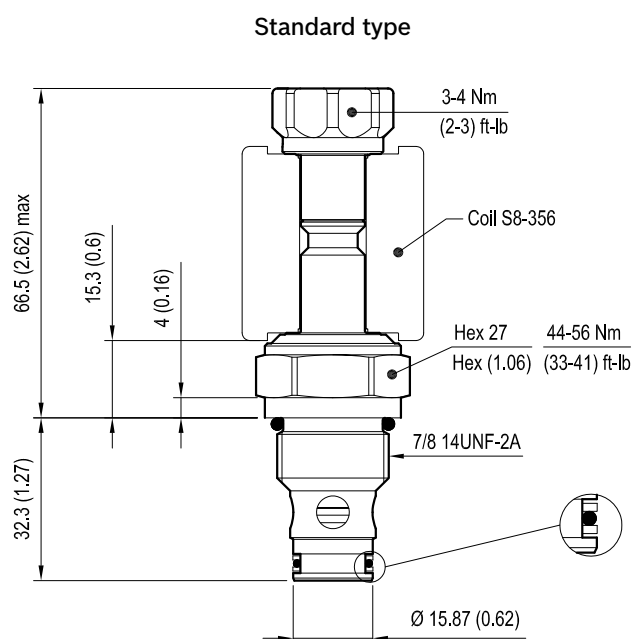
Version 1: Solenoid operated valve, poppet 2-way normally open

Push and twist style manual override



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

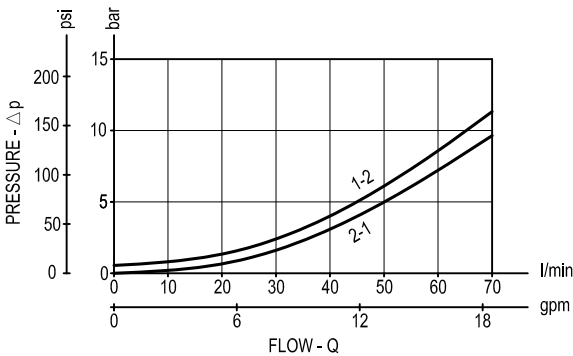
Version 3: Solenoid operated valve, poppet 2-way double lock normally open



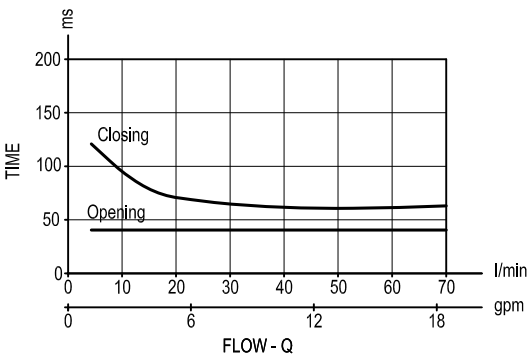
mm (Inches)

Performance graphs

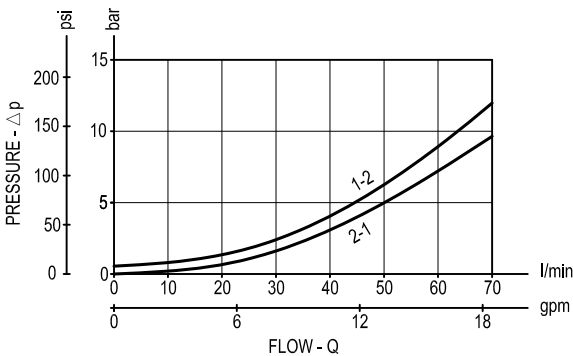
Version 06 - Version 04



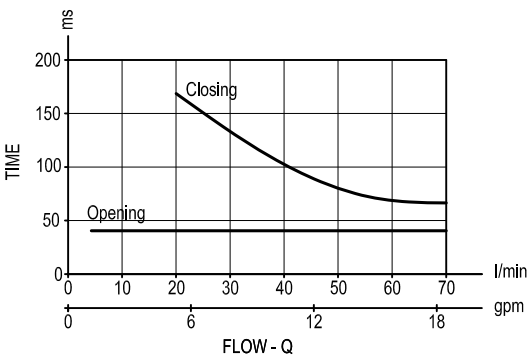
Standard



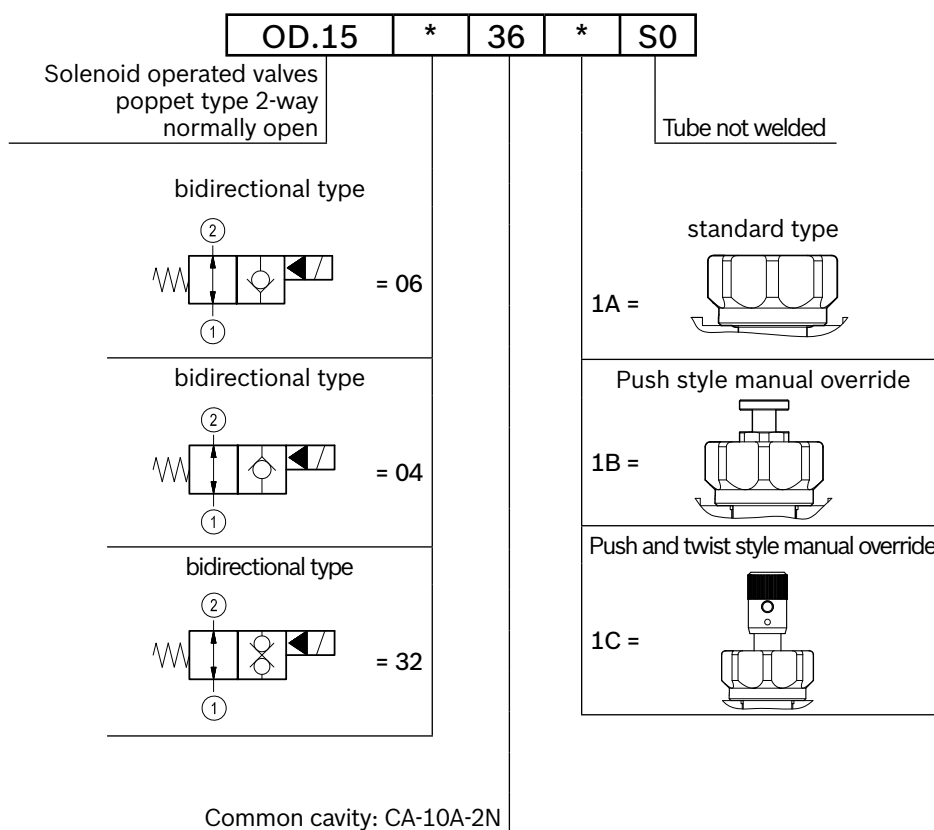
Version 32



Standard



Ordering code



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

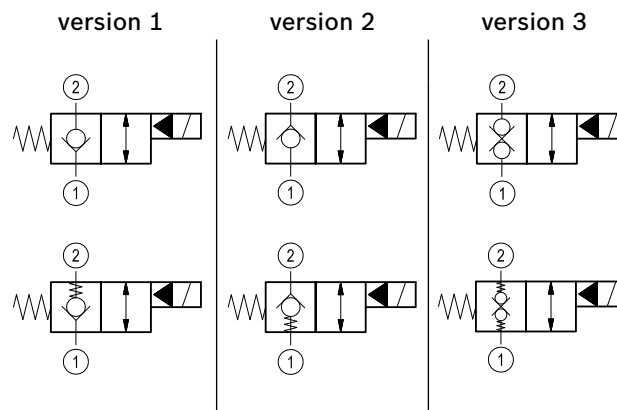
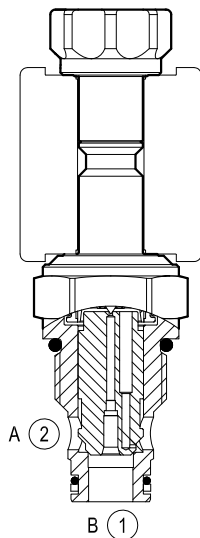
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally 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 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

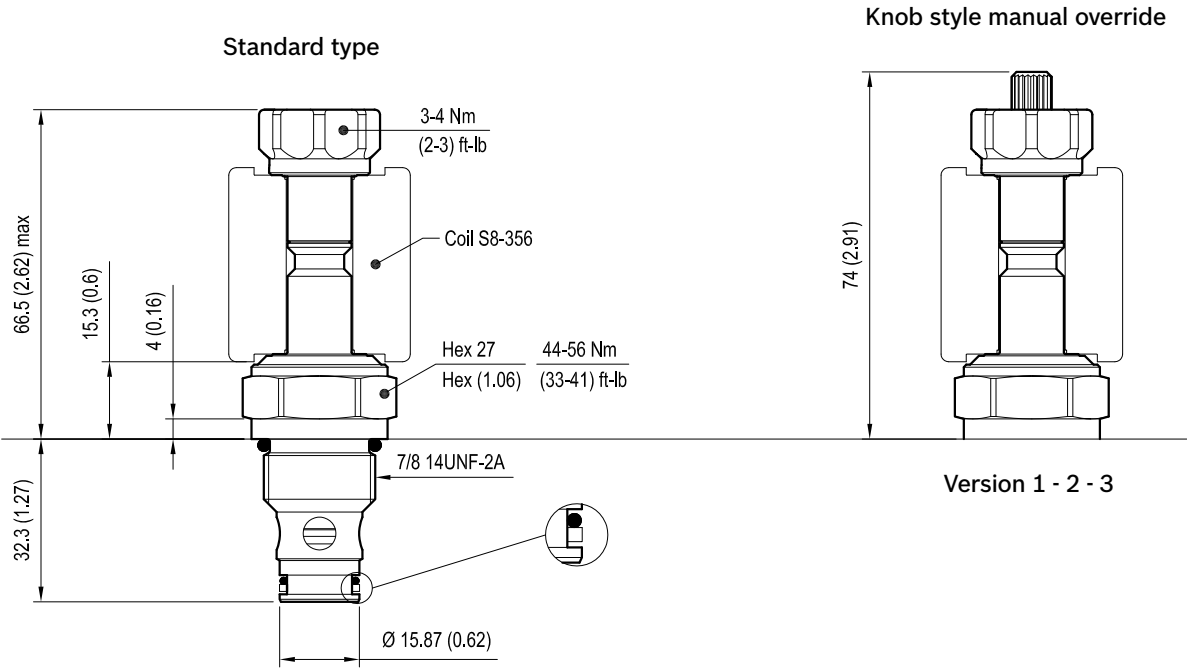
Electrical

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

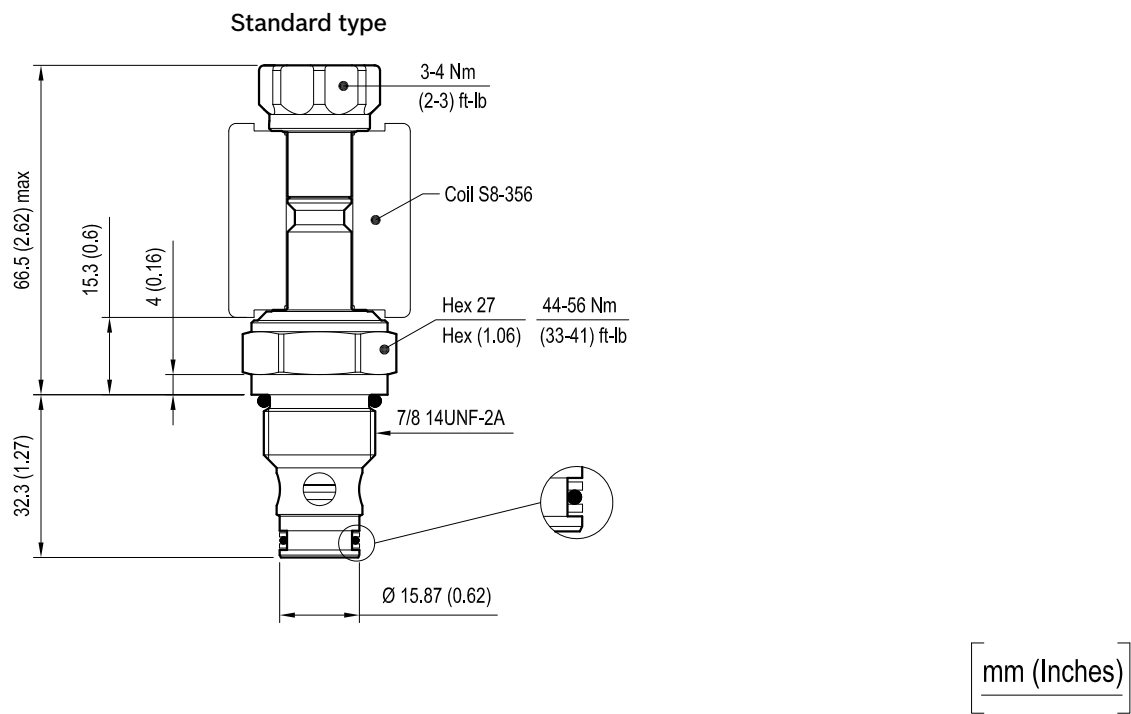
Note: Coils must be ordered separately.

Dimensions

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

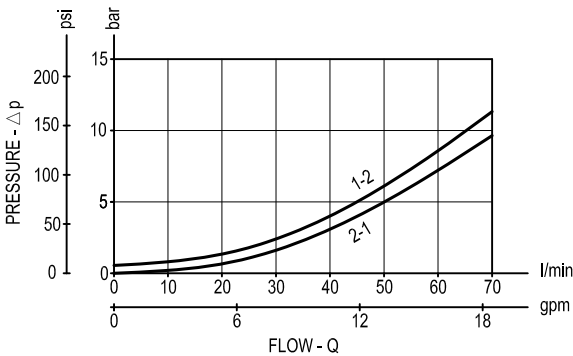


Version 2: Solenoid operated valve, poppet 2-way normally closed
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed

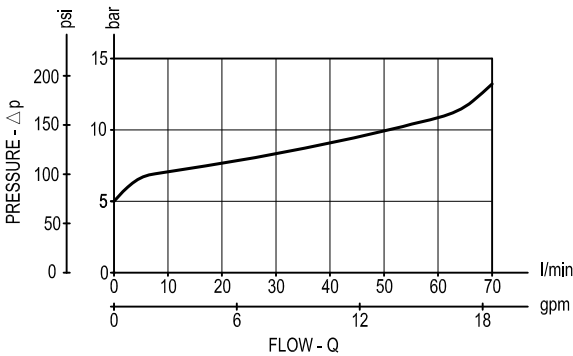
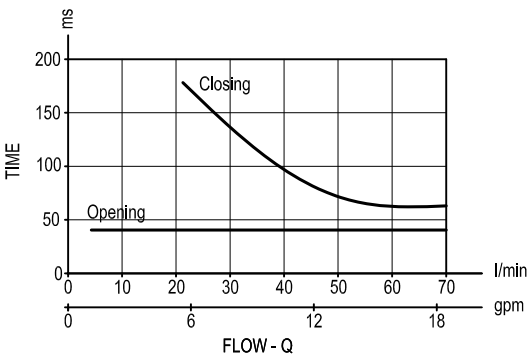


Performance graphs

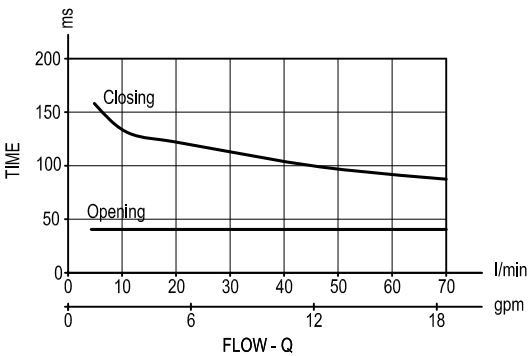
Version 1 - Version 2



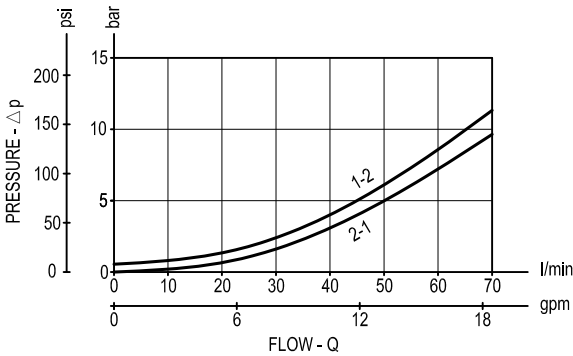
Standard



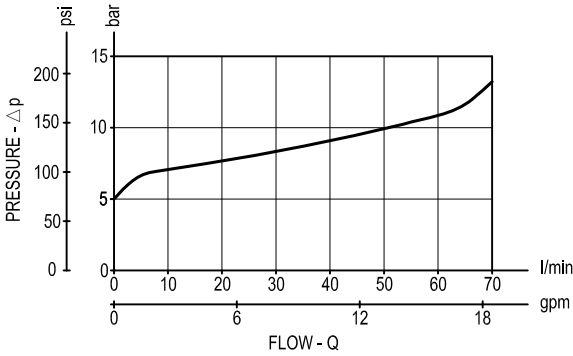
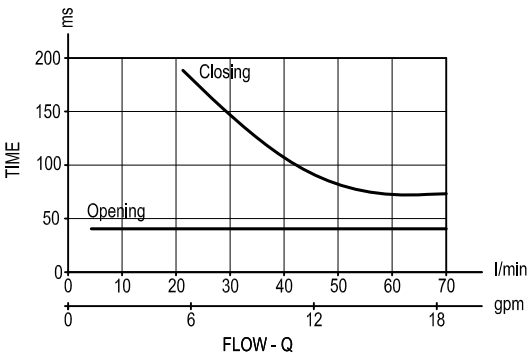
Extra spring



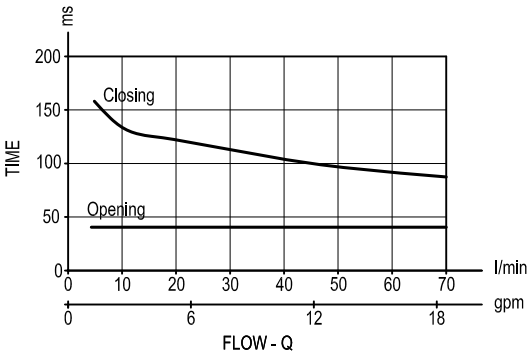
Version 3



Standard



Extra spring

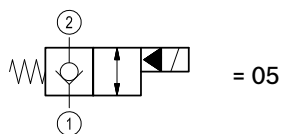


Ordering code

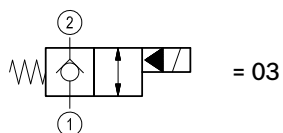
OD.15	X	36	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

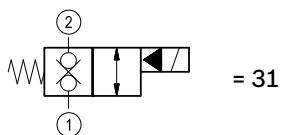
bidirectional type



bidirectional type

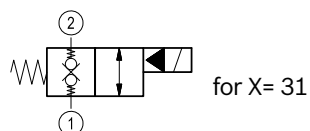
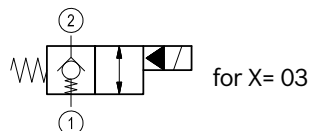
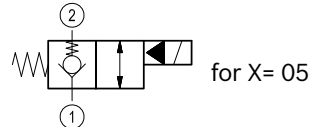


double lock



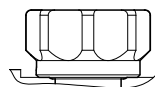
S0 = Tube not welded

S8 = Tube not welded with extra spring



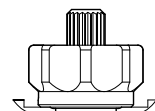
standard type

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

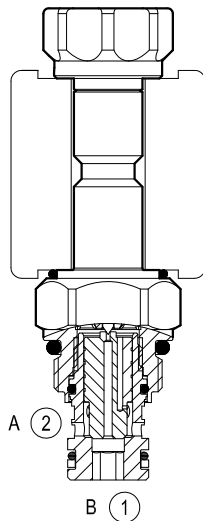
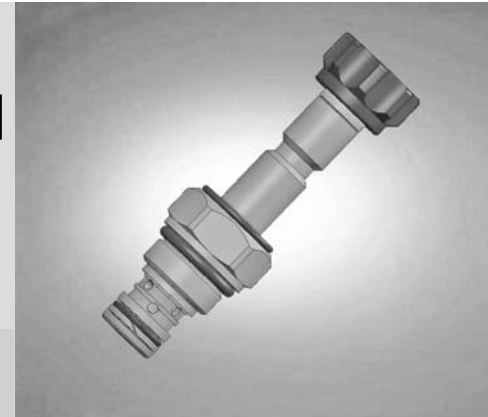
Type	Material number
OD1531363DS000	R901091167
OD1531363DS800	R901109985

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

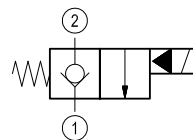
BOSCH cavity, R/BOSCH-20-01-0-03

VEI-8I-06-NC

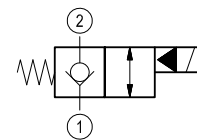
OD.15 - X - 39 - Y - S0



version 01



version 05



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)
Flow range	l/min. (gpm)	0.5-30 (0.1-8)
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)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		R/BOSCH-20-01-0-03
Seal kit version 1-2	code material no.	RG39E201052010 R934003584
Seal kit coil	code material no.	RG12I1PNBR7010 R934003957
Other technical data		See data sheet RE 18350-50

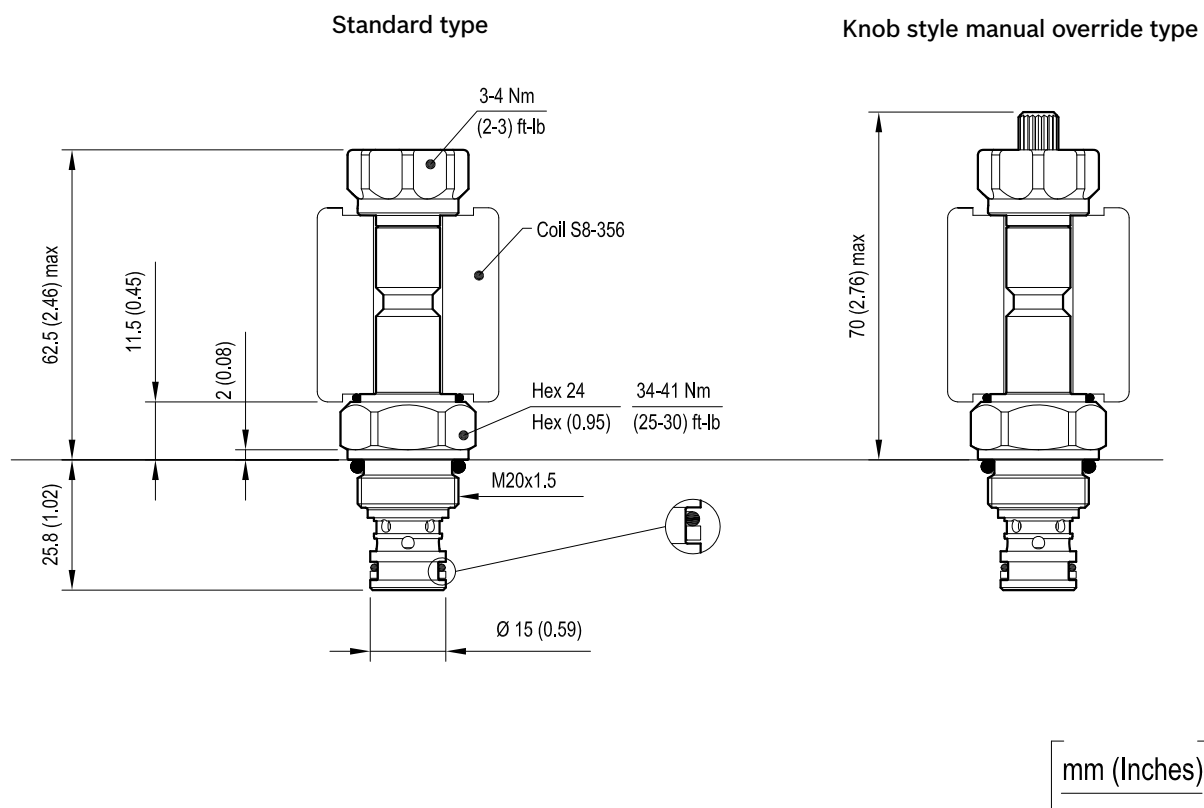
Electrical

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

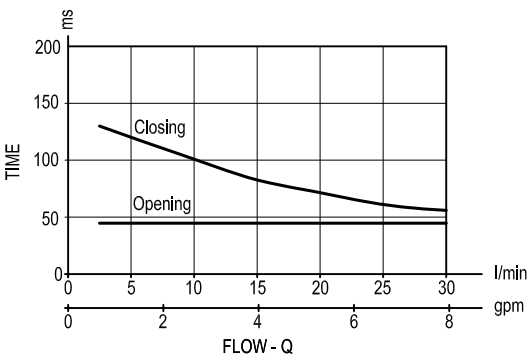
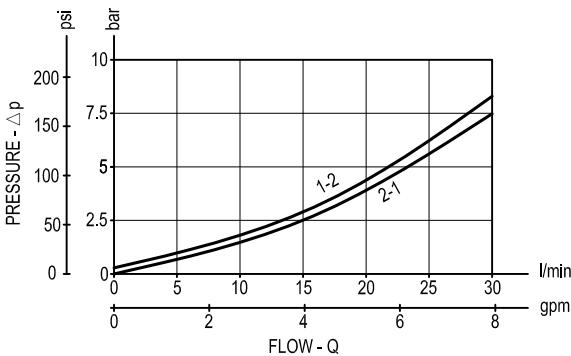
Version 01-05: Solenoid operated valve, poppet 2-way normally closed



Performance graphs

Version 01-05

Standard

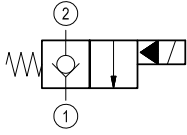


Ordering code

OD.15	*	39	*	S0
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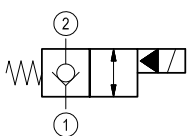
Solenoid operated valves
poppet type 2-way normally
closed

monodirectional type



= 01

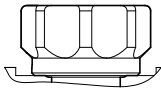
bidirectional type



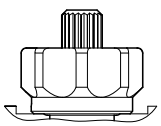
= 05

Tube not welded

standard type

3I = 

knob style manual override

3M = 

Special cavity: 039-E

Type	Material number
OD1501393IS000	R901099080
OD1501393MS000	R901099059
OD1505393IS000	R901099082
OD1505393MS000	R901099083

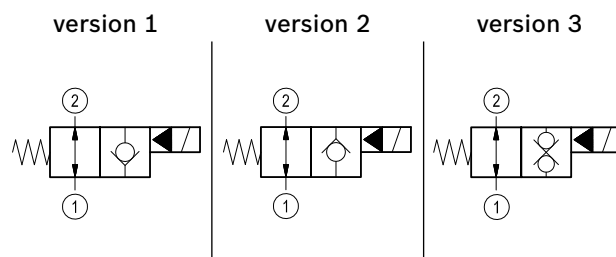
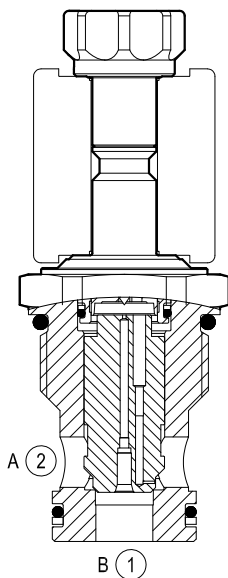
Type	Material number

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 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

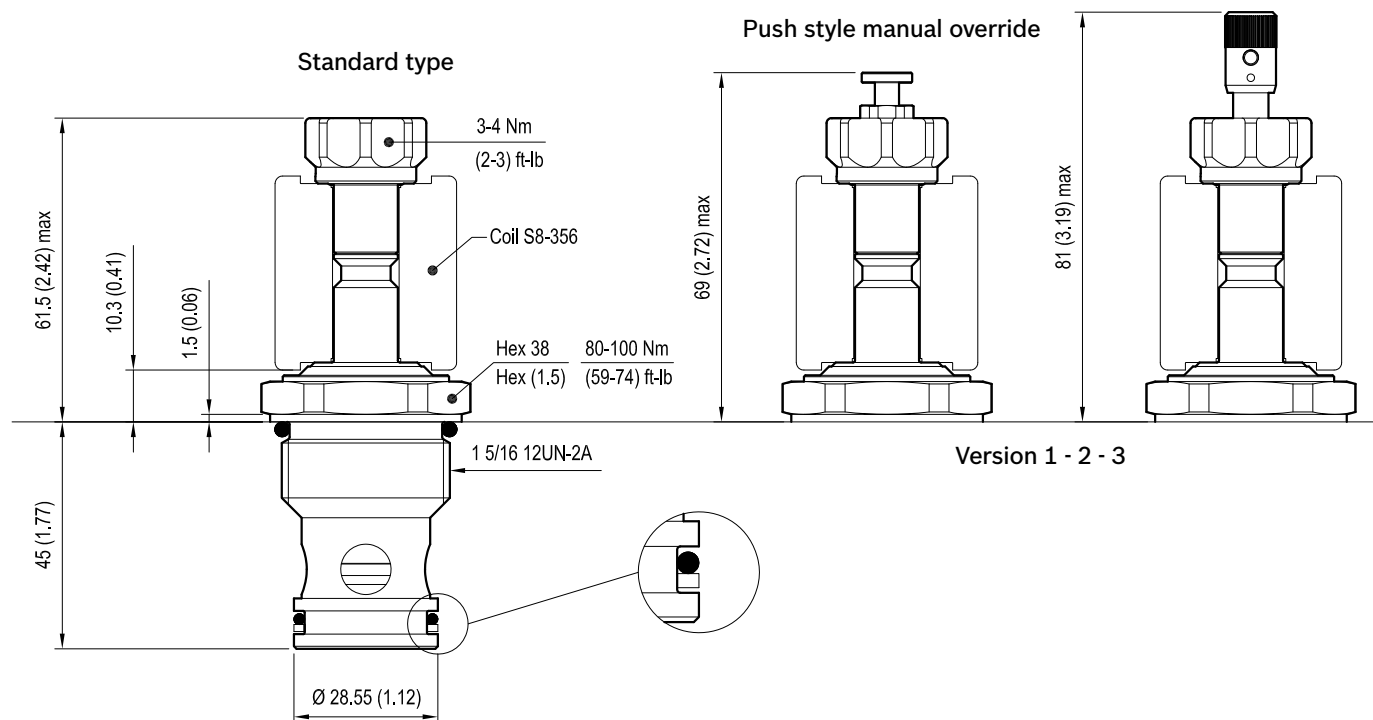
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

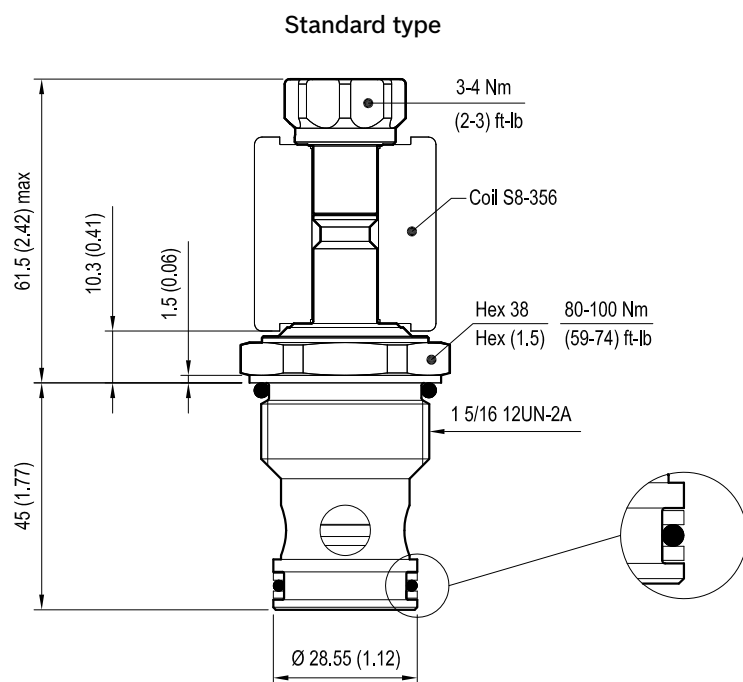
Version 1: Solenoid operated valve, poppet 2-way normally open

Push and twist style manual override



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

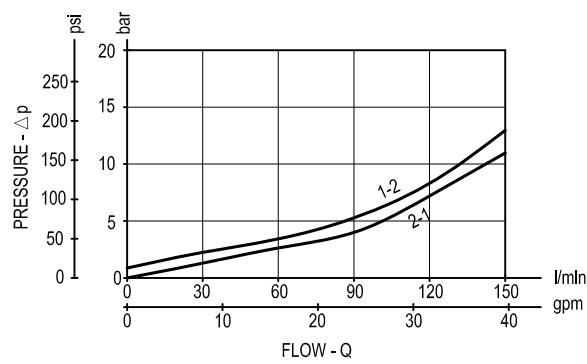
Version 3: Solenoid operated valve, poppet 2-way double lock normally open



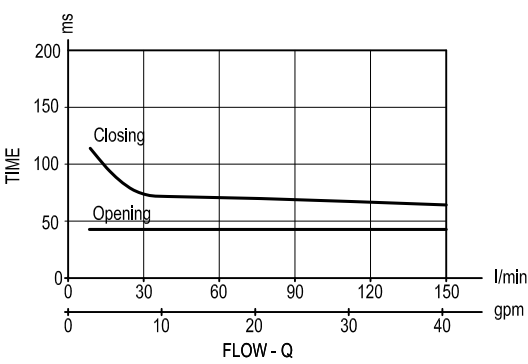
mm (Inches)

Performance graphs

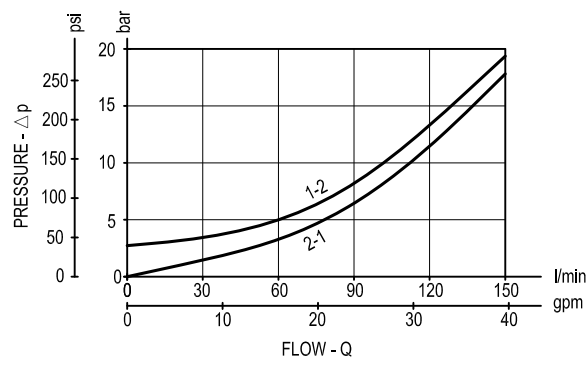
Version 1 - Version 2



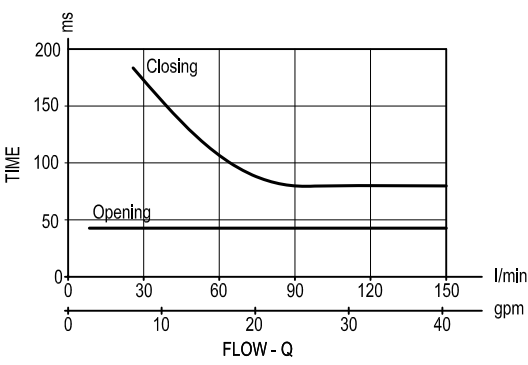
Standard



Version 3



Standard

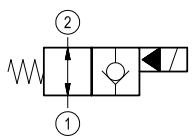


Ordering code

OD.15	*	75	*	S0
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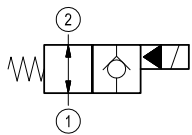
Solenoid operated valves
poppet type 2-way
normally open

bidirectional type



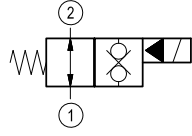
= 06

bidirectional type



= 04

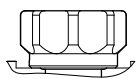
double lock



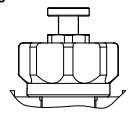
= 32

Tube not welded

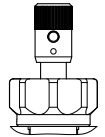
standard type

1A = 

Push style manual override

1B = 

Push and twist style manual override

1C = 

Common cavity: CA-16A-2N

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

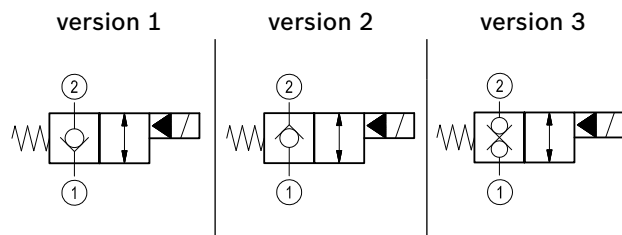
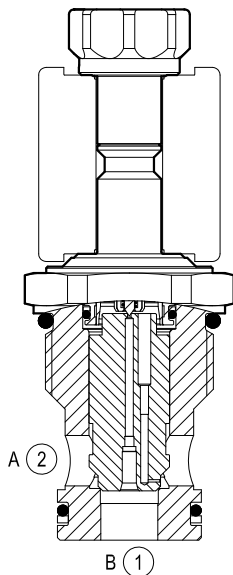
Type	Material number

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 mm ² /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

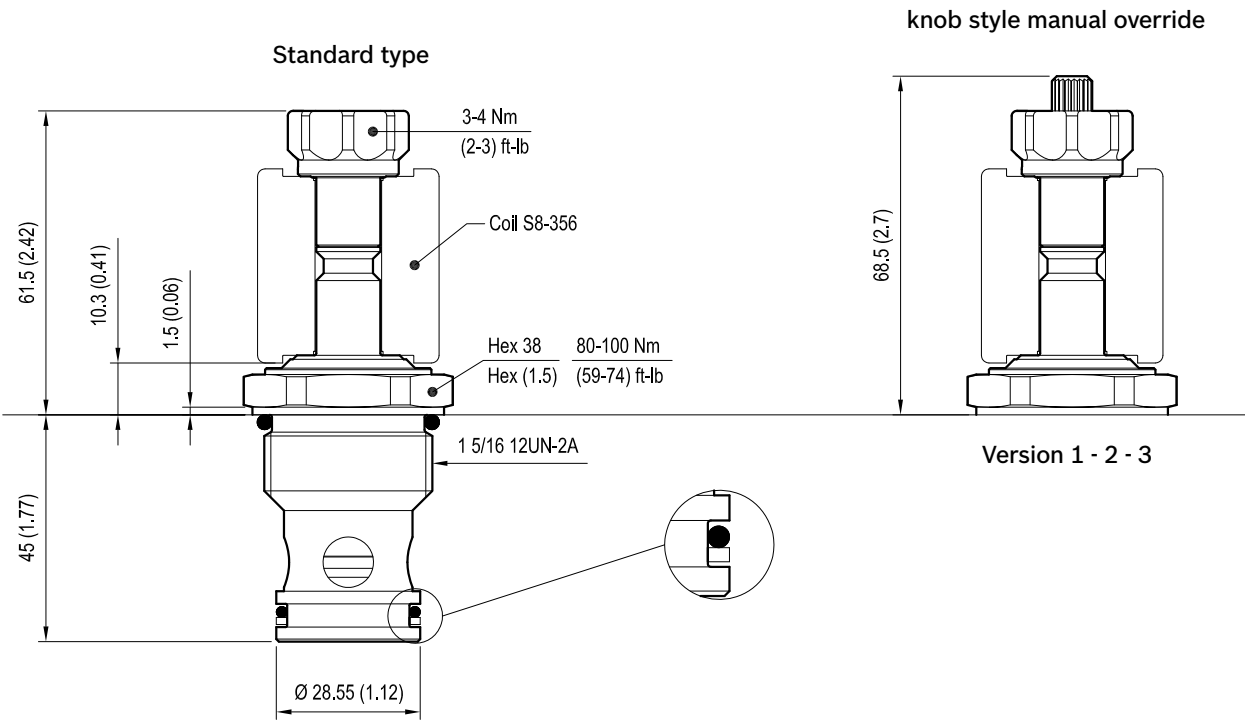
Electrical

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.

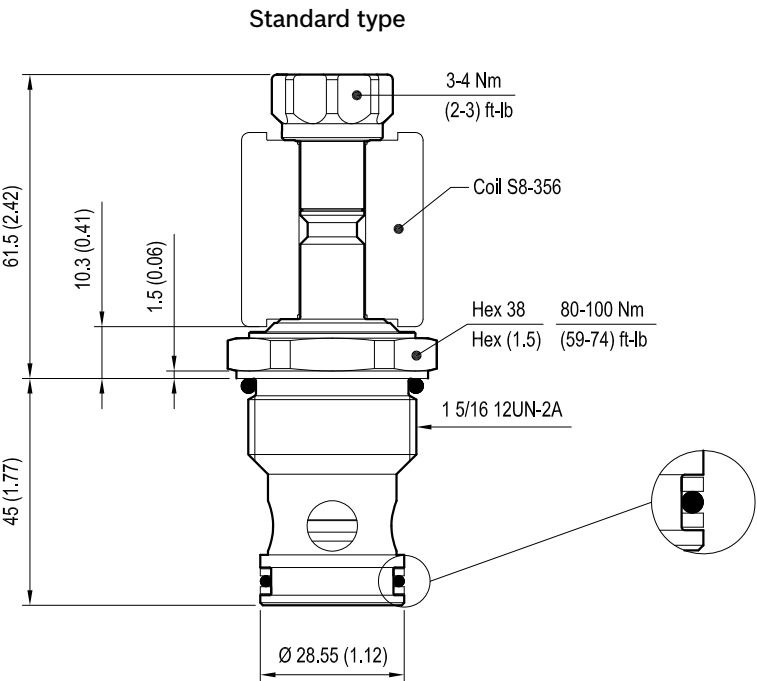
Dimensions

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



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

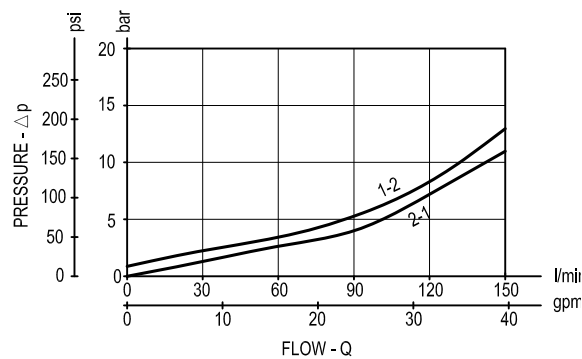
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



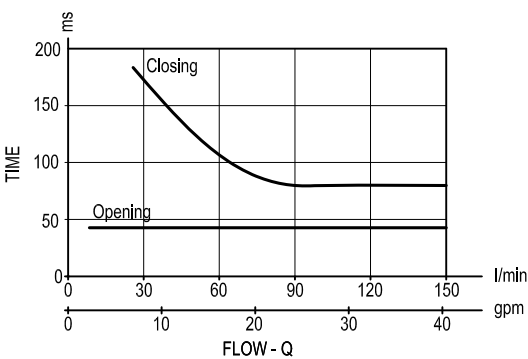
mm (Inches)

Performance graphs

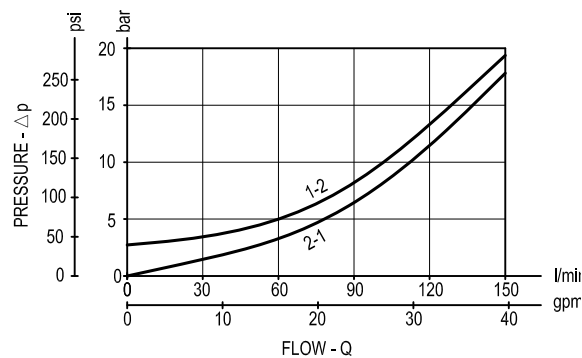
Version 1 - Version 2



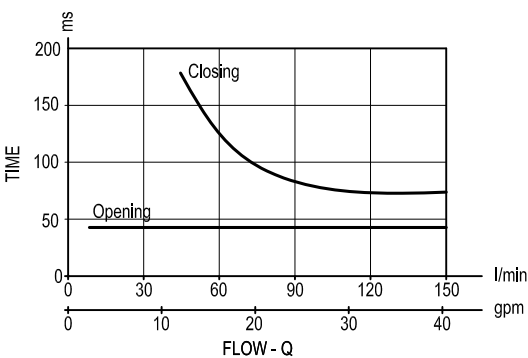
Standard



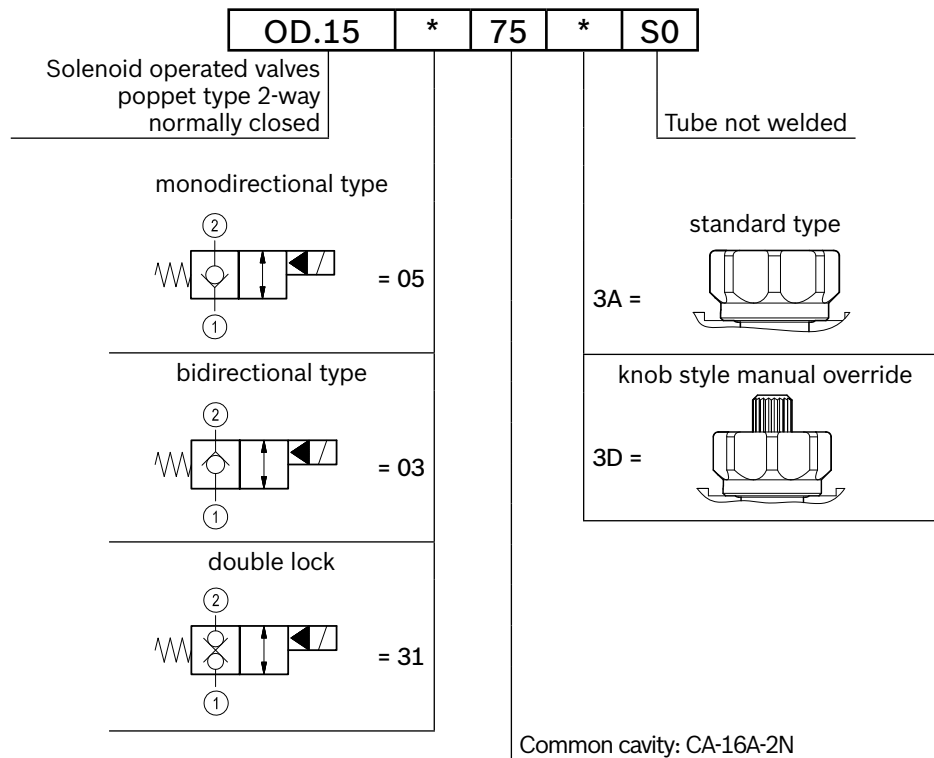
Version 3



Standard



Ordering code



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

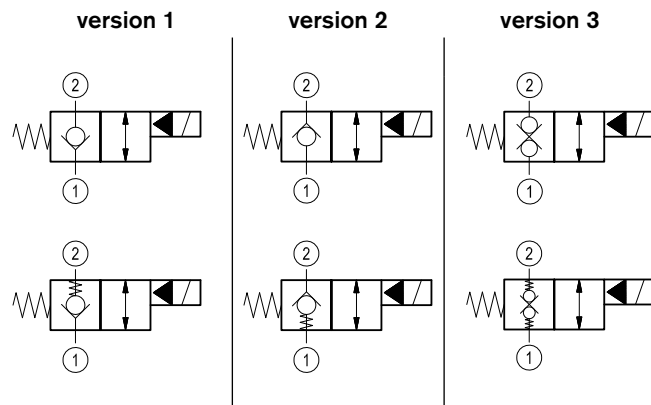
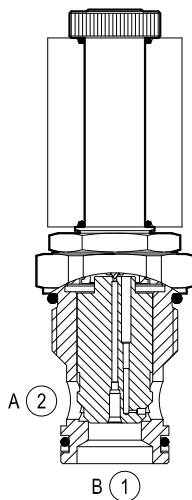
[illegible]

Solenoid operated valves poppet type 2-way normally closed

Common cavity, Size 16

VEI-7A-16A-NC

OD.15 - X 75 - 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

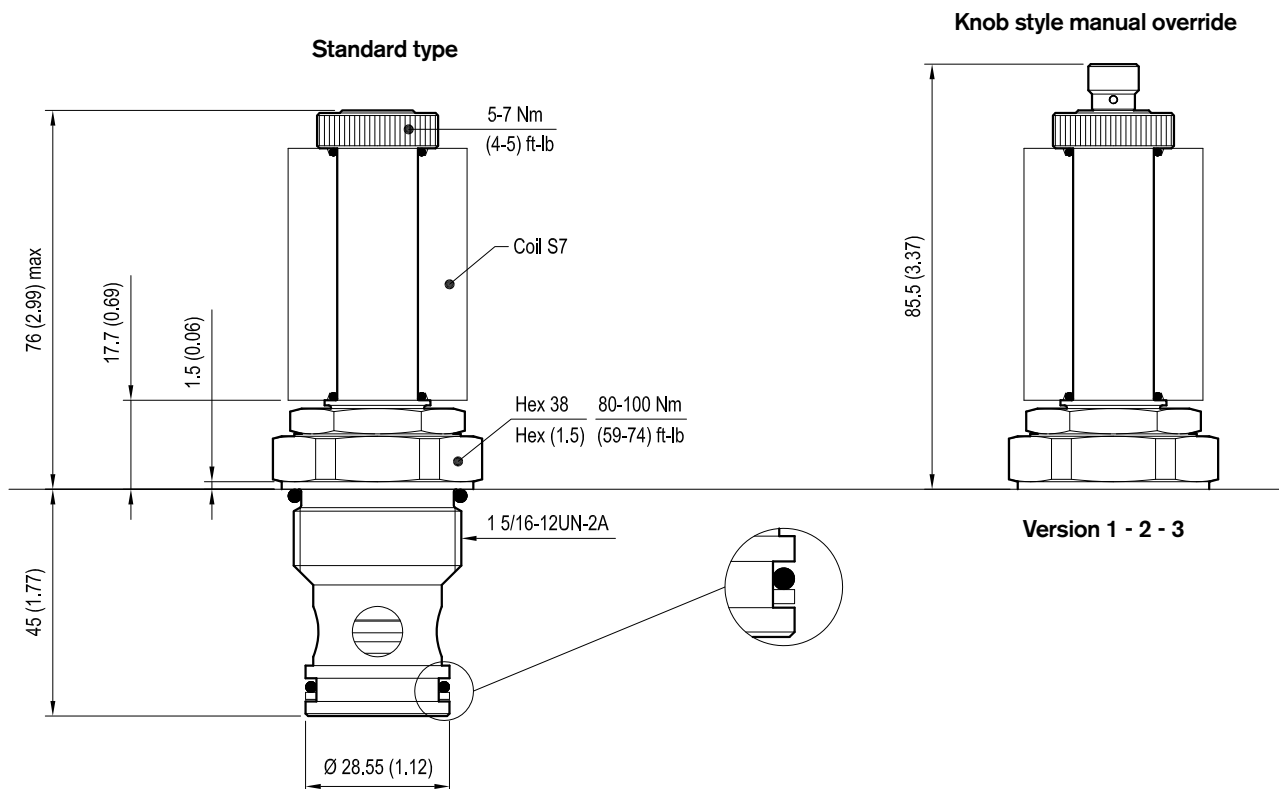
Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min. (gpm)	5-200 (1-53)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-34 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	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	code	...
	material no.	...
Other technical data		See data sheet RE 18350-50

Electrical

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

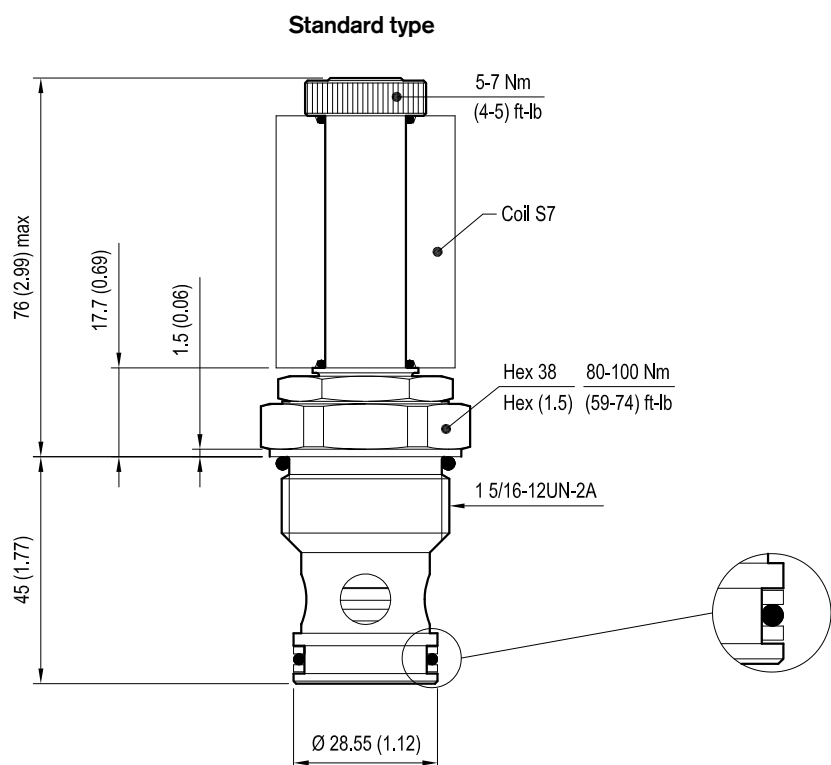
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed - leakage PORT A (2)



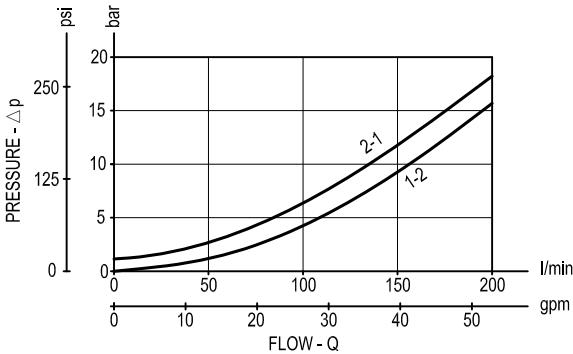
Version 2: Solenoid operated valve, poppet 2-way normally closed - leakage PORT B (1)

Version 3: Solenoid operated valve, poppet 2-way double lock normally closed - leakage PORT B (1)

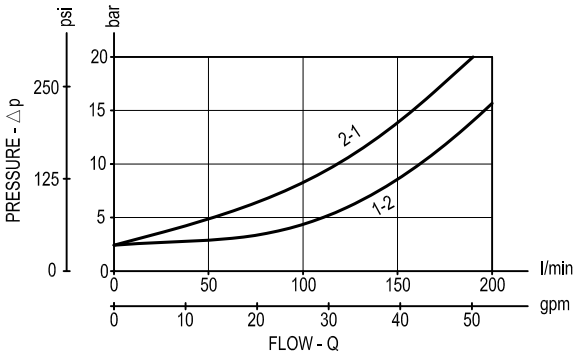
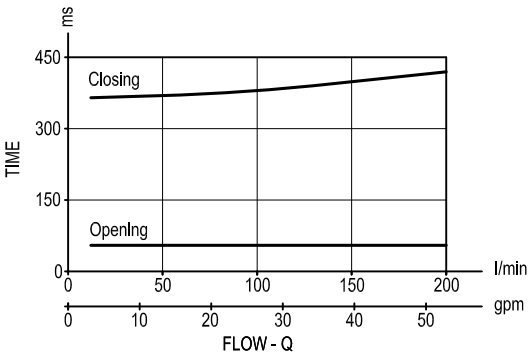


Performance graphs

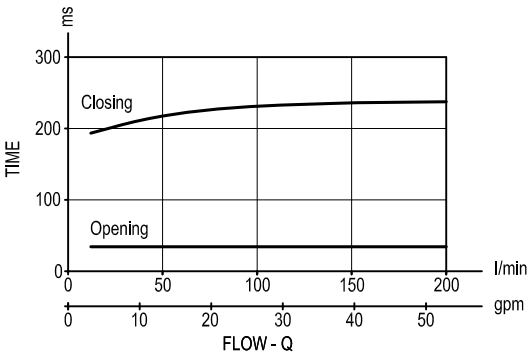
Version 1 - Version 2



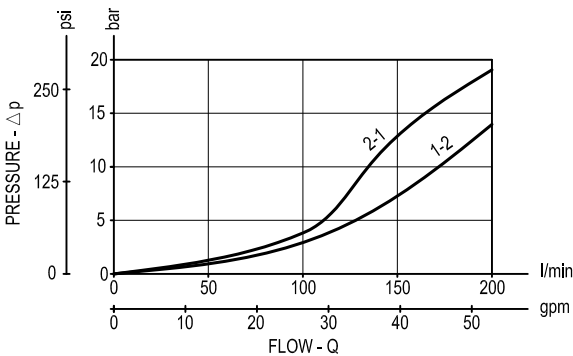
Standard



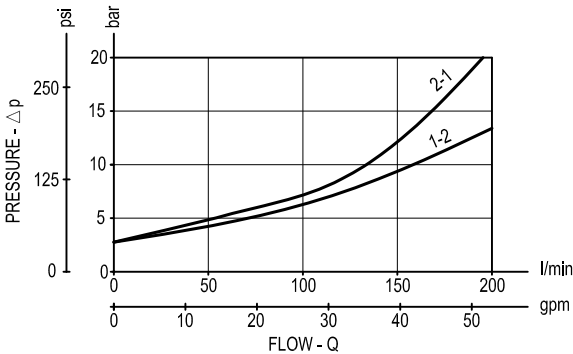
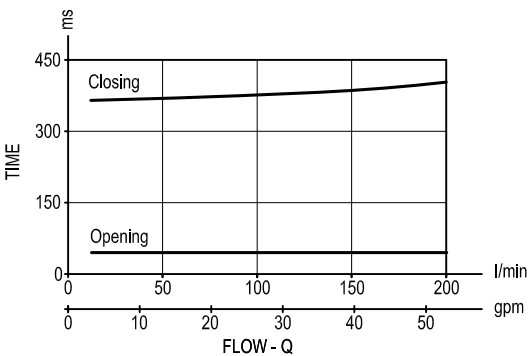
Extra spring



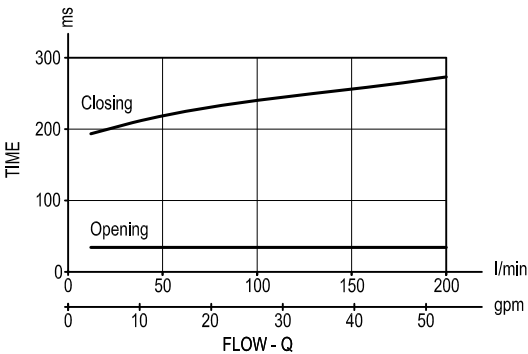
Version 3



Standard



Extra spring



Ordering code

OD.15	X	75	*	*
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Solenoid operated valves
poppet type 2-way normally
closed

bidirectional type

= 05

bidirectional type

= 03

double lock

= 31

S0 = Tube not welded

S8 = Tube not welded with extra spring

for X= 05

for X= 03

for X=31

standard type

75 =

knob style manual override

76 =

Common cavity: CA-16A-2N

Type	Material number

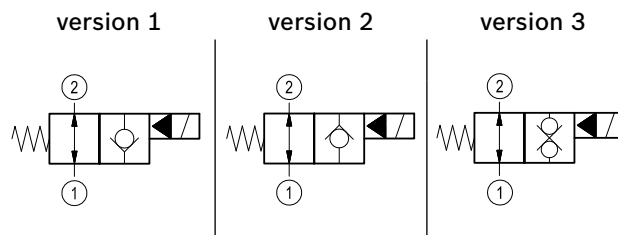
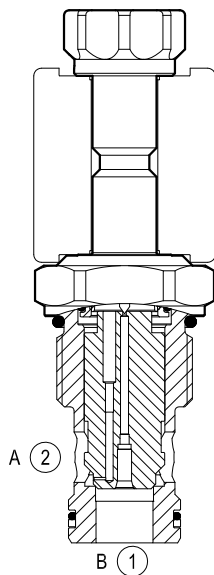
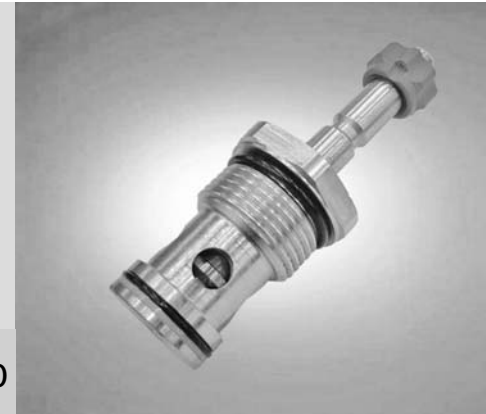
Type	Material number

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

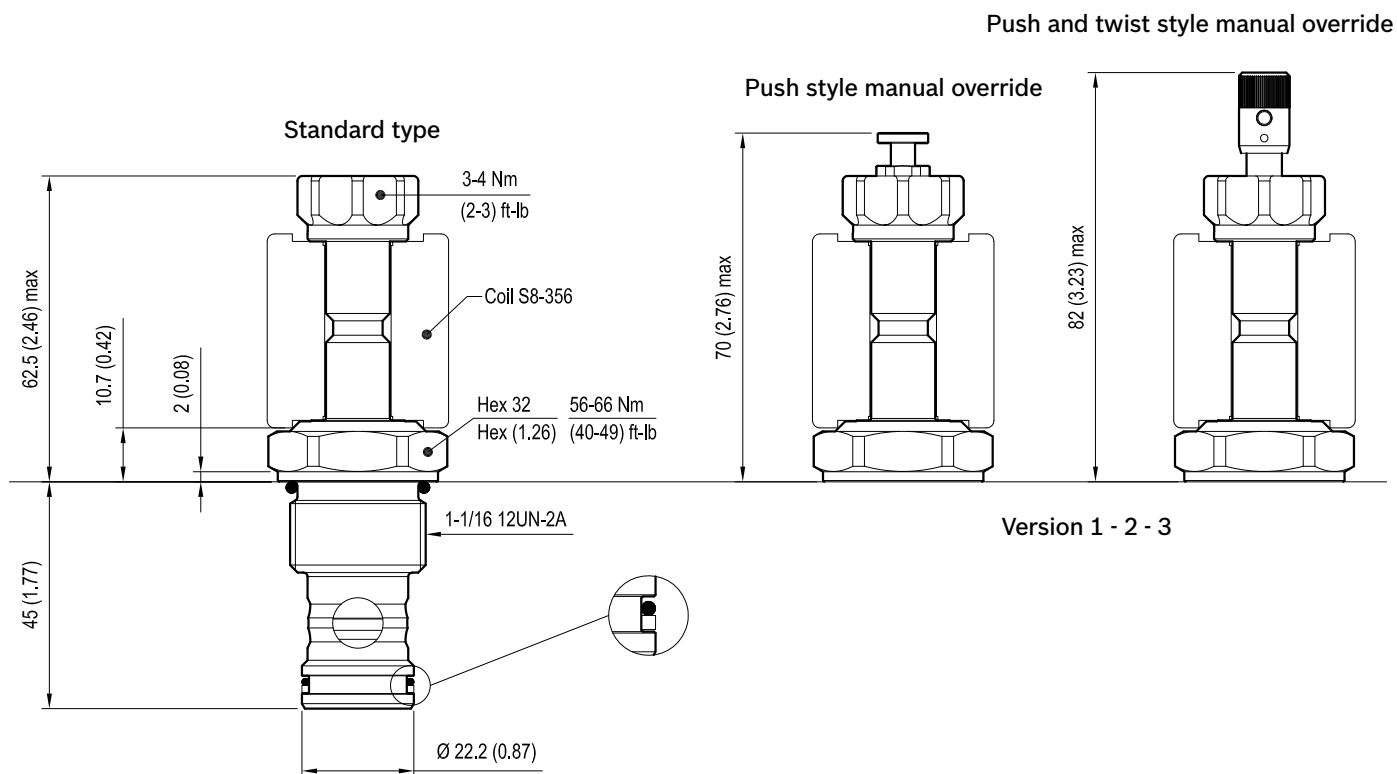
Electrical

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.

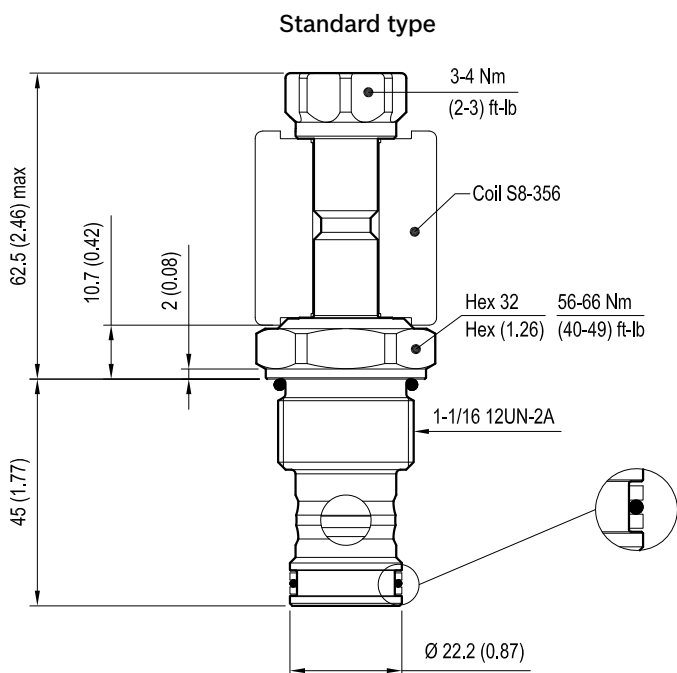
Dimensions

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



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

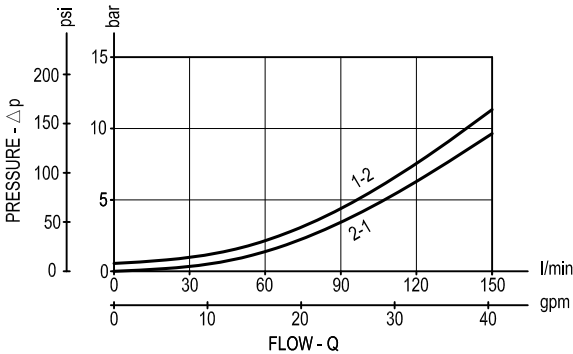
Version 3: Solenoid operated valve, poppet 2-way double lock normally open



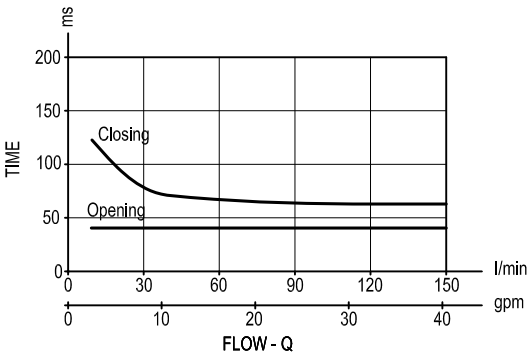
mm (Inches)

Performance graphs

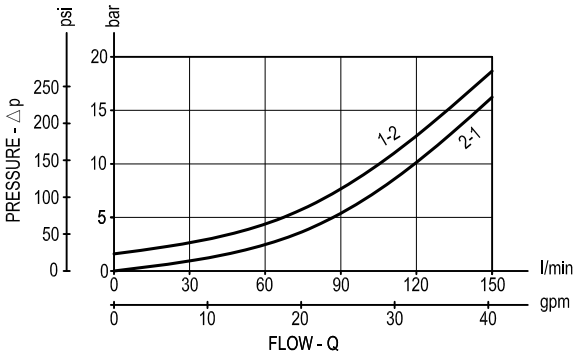
Version 1 - Version 2



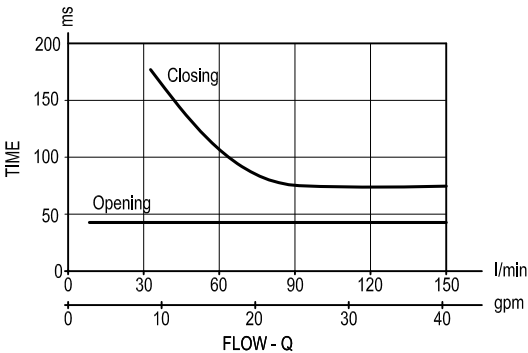
Standard



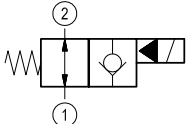
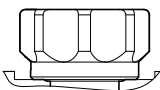
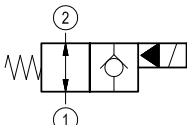
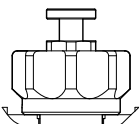
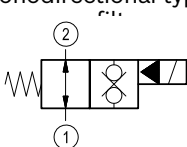
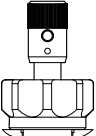
Version 3



Standard



Ordering code

OD.15		*	89	*	S0
Solenoid operated valves poppet type 2-way normally open		Tube not welded			
monodirectional type		standard type			
 = 06		1A = 			
bidirectional type		Push style manual override			
 = 04		1B = 			
monodirectional type with		Push and twist style manual override			
 = 32		1C = 			
Common cavity: CA-12A-2N					

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

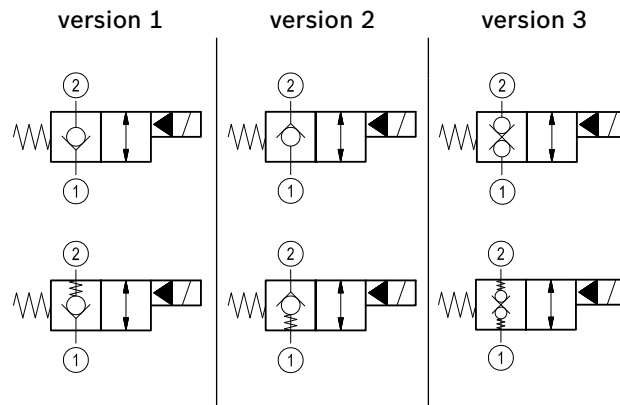
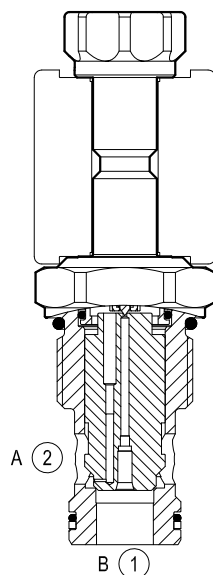
Type	Material number

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

Common cavity, Size 12

VEI-8A-12A-NC

OD.15 X - 89 - Y - Z



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 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		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

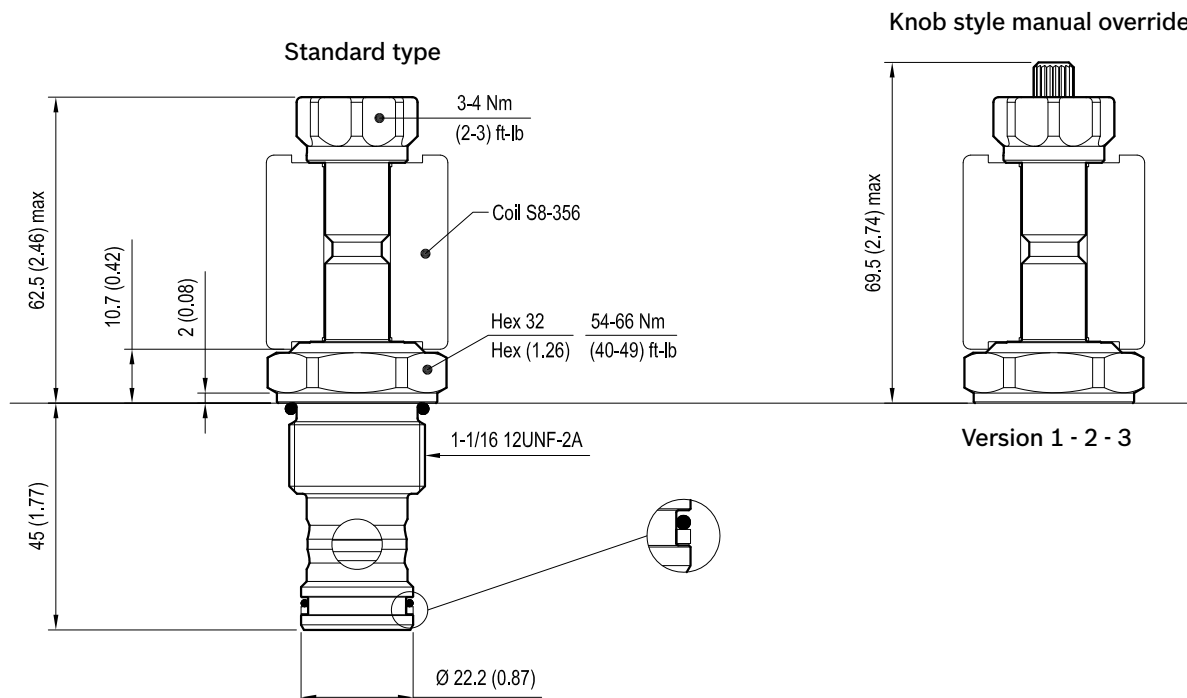
Electrical

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.

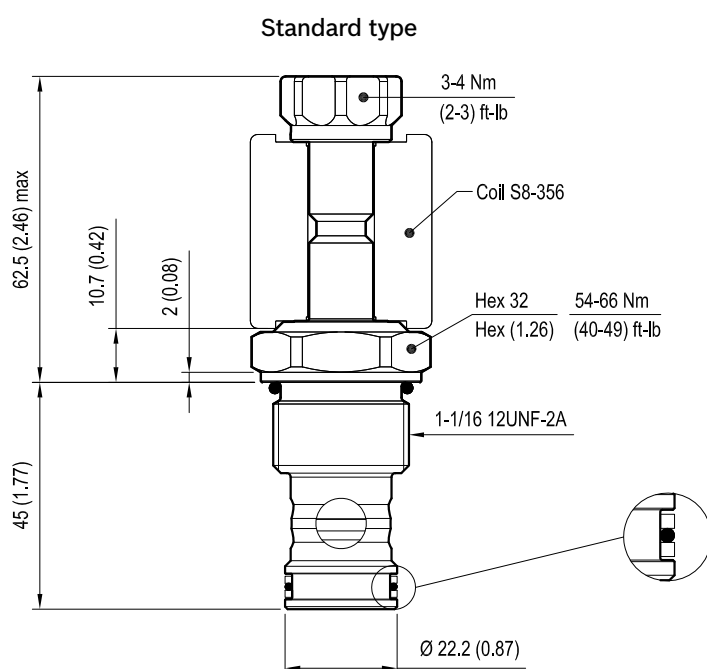
Dimensions

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



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

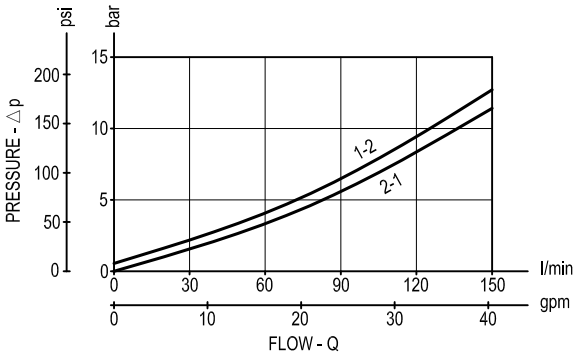
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



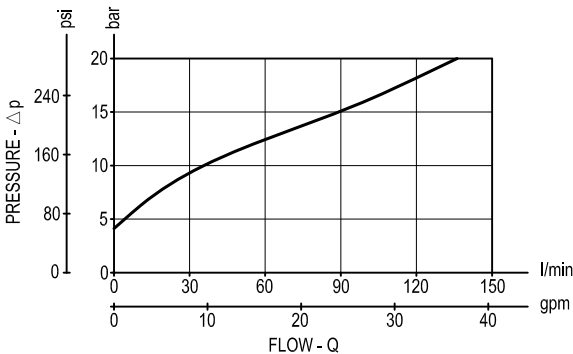
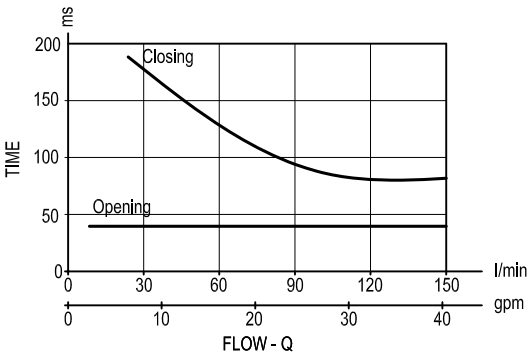
[mm (Inches)]

Performance graphs

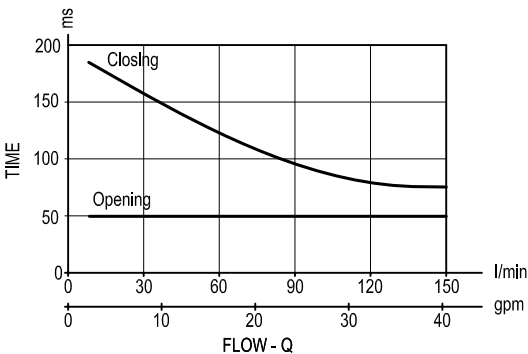
Version 1 - Version 2



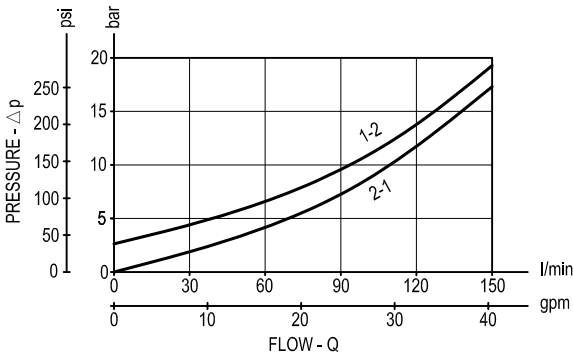
Standard



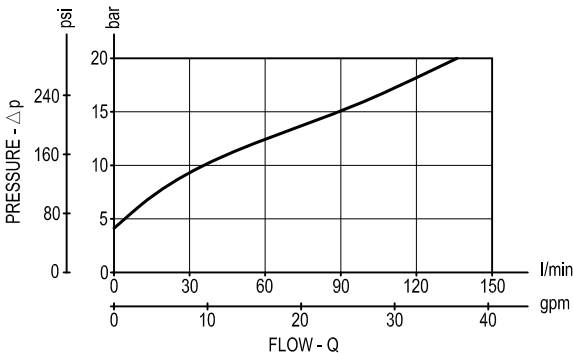
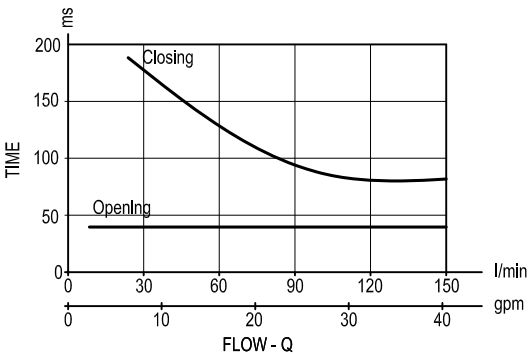
Extra spring



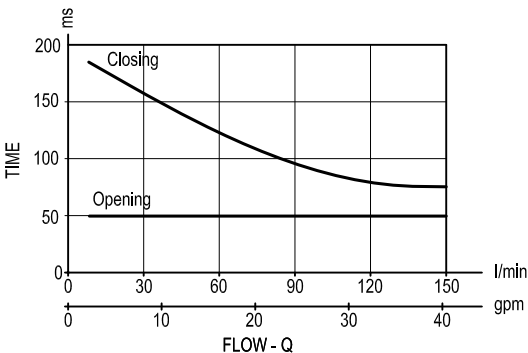
Version 3



Standard



Extra spring

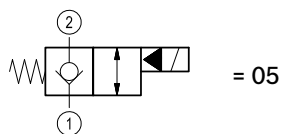


Ordering code

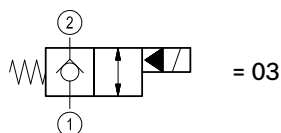
OD.15	*	89	*	*
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Solenoid operated valves
poppet type 2-way
normally closed

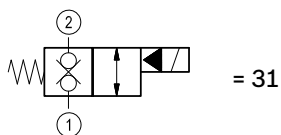
bidirectional type



bidirectional type

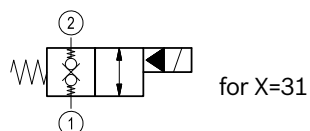
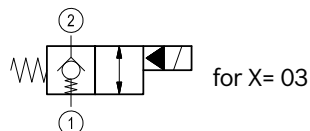
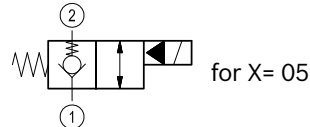


double lock



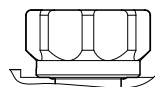
S0 = Tube not welded

S8 = Tube not welded with extra spring



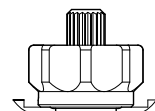
standard type

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

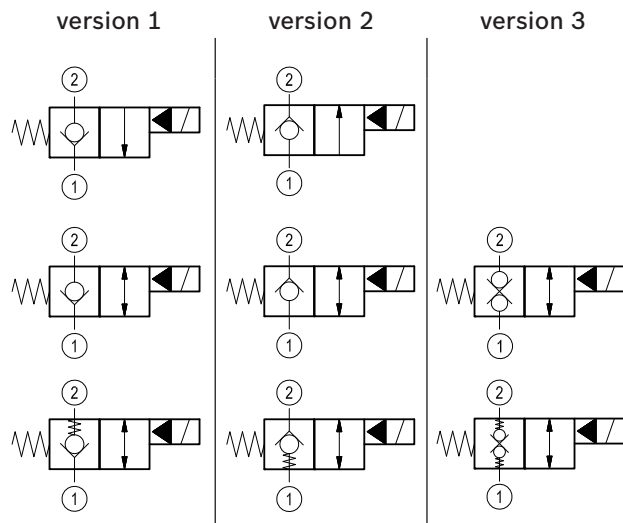
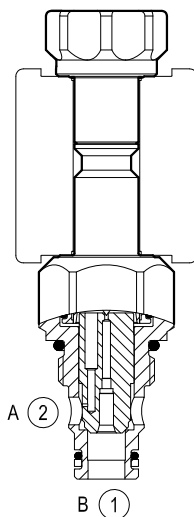
Type	Material number
OD1531893AS800	R901091169
OD1531893DS000	R901091170
OD1531893DS800	R901109990

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

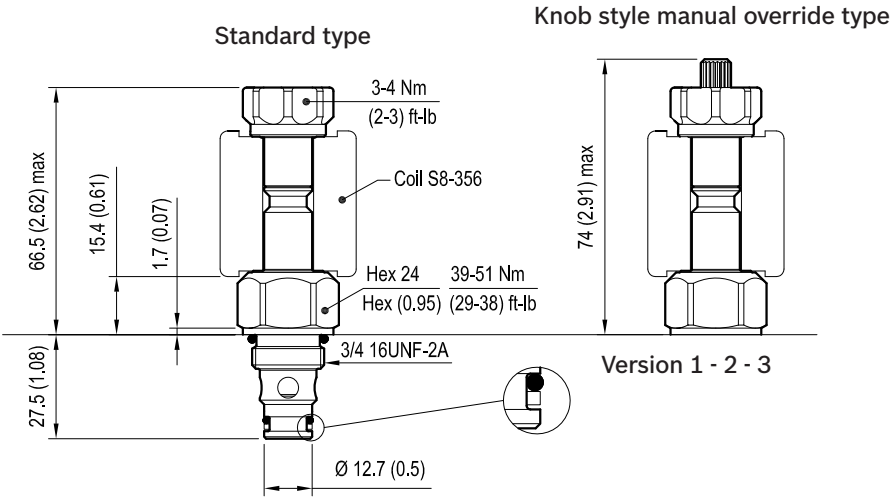
Electrical

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.

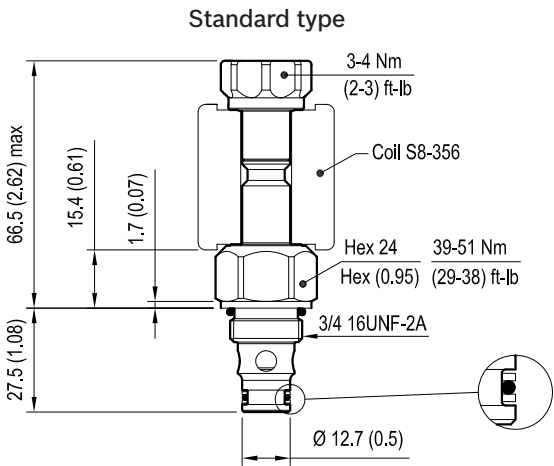
Dimensions

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



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

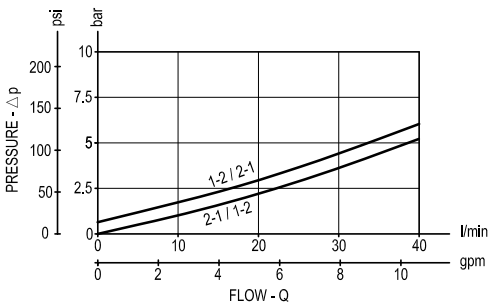
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



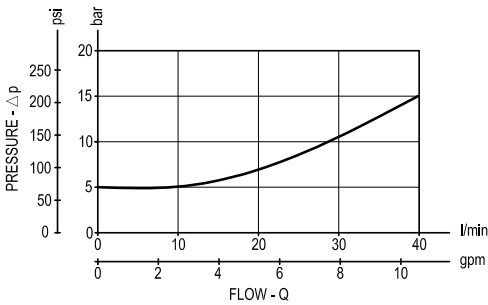
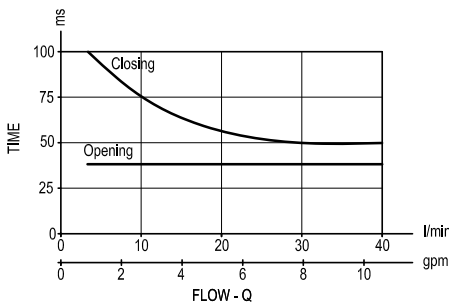
mm (Inches)

Performance graphs

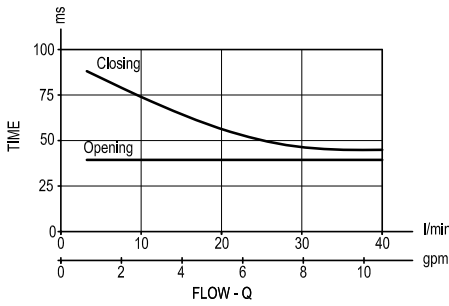
Version 1 - Version 2



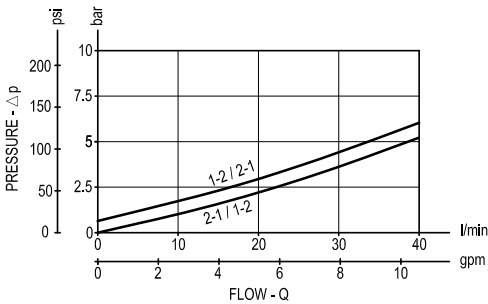
Standard



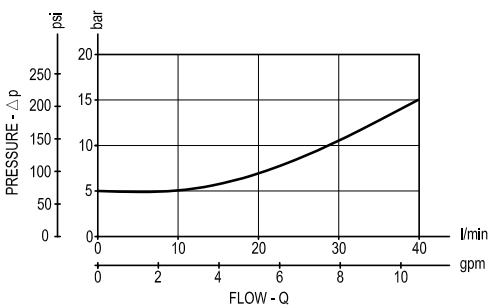
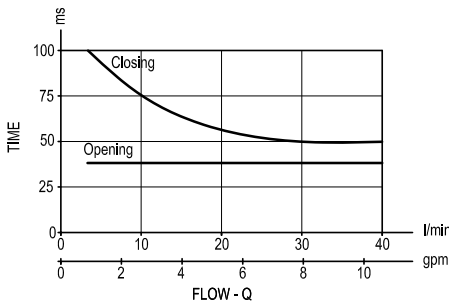
Extra spring



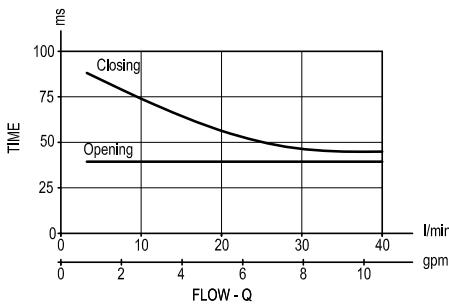
Version 3



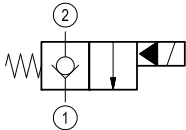
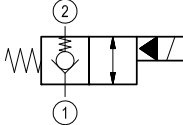
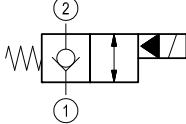
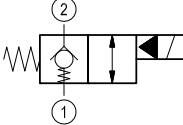
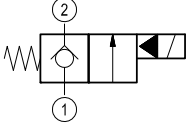
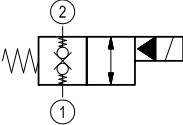
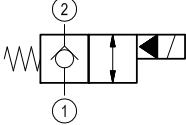
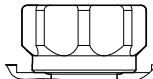
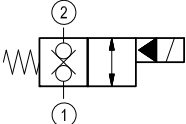
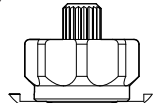
Standard



Extra spring



Ordering code

OD.15	X	Y	Z	*
Solenoid operated valves poppet type 2-way normally closed				
monodirectional type				S0 = Tube not welded
 = 01				S8 = Tube not welded with extra spring
bidirectional type				 for X= 05
 = 05				 for X= 03
monodirectional type				 = 09
bidirectional type				 for X= 31
 = 03				standard type
bidirectional type				3A = 
 = 31				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

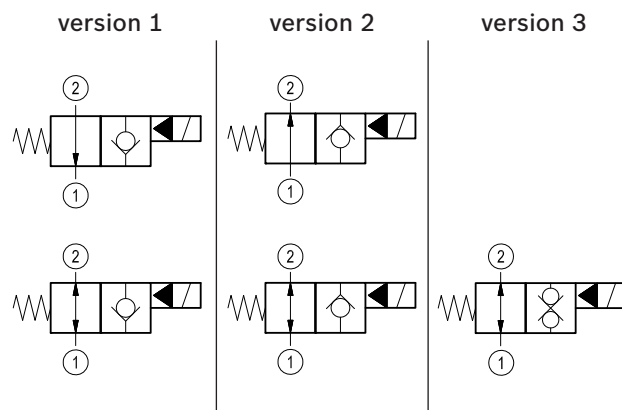
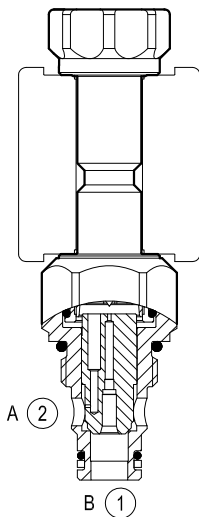
Type	Material number
OD1509183AS000	R901091150
OD1509183DS000	R901091151
OD1531183AS000	R901082015
OD1531183AS800	R934000104
OD1531183DS000	R901091164

Solenoid operated valves pilot operated poppet type 2-way normally 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 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 18325-70	
Seal kit version 1	code material no.	RG08A2010520100 R901101437
Seal kit version 2-3	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data	See data sheet RE 18350-50	

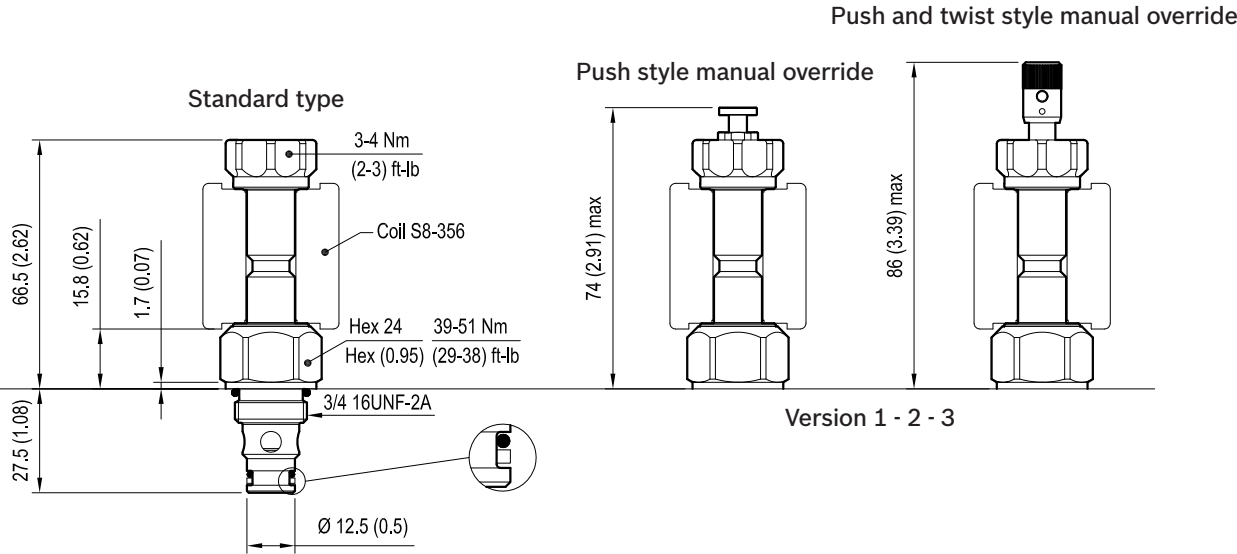
Electrical

Type of voltage	DC voltage
Coil type	S8-356 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.

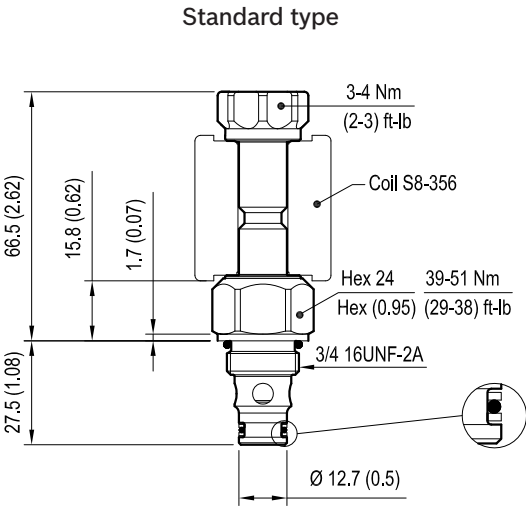
Dimensions

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



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

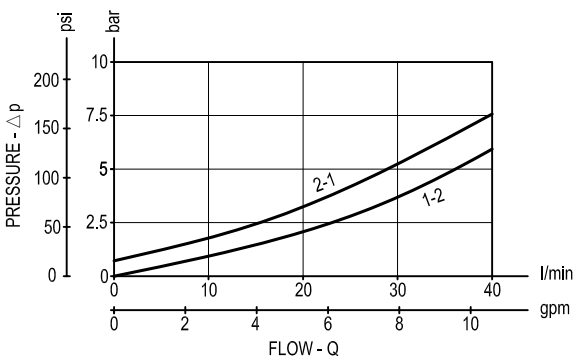
Version 3: Solenoid operated valve, poppet 2-way double lock normally open



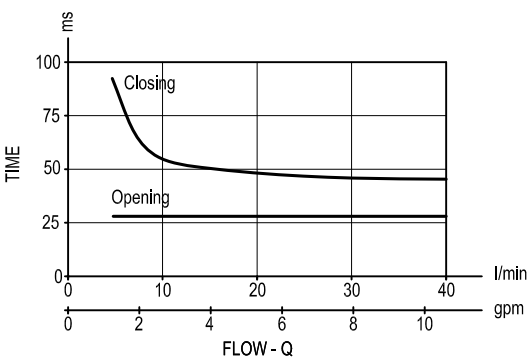
mm (Inches)

Performance graphs

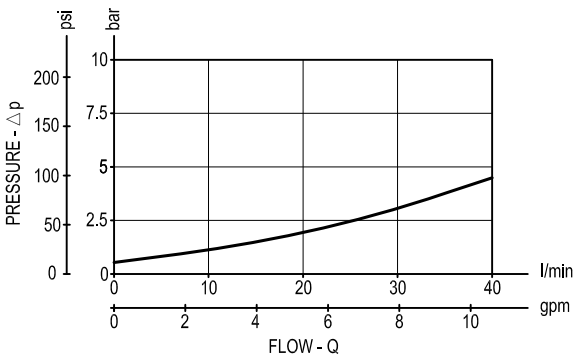
Version 1 - Version 2



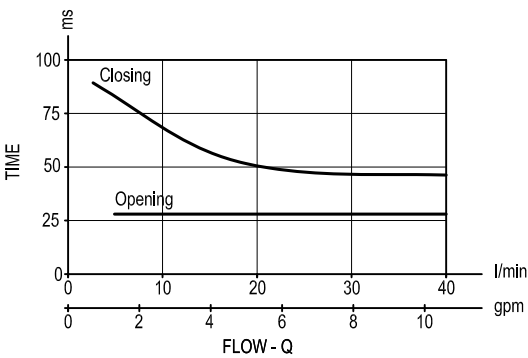
Standard



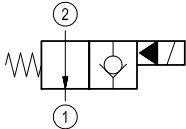
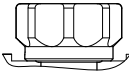
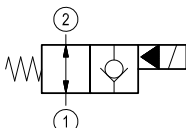
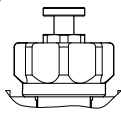
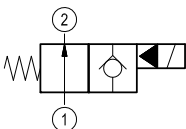
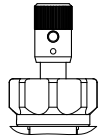
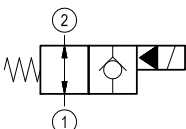
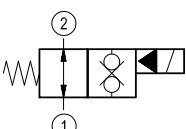
Version 3



Standard



Ordering code

OD.15	X	Y	Z	S0
Solenoid operated valves poppet type 2-way normally open				Tube not welded
monodirectional type  = 02				standard type 1A = 
bidirectional type  = 06				Push style manual override 1B = 
monodirectional type  = 10				Push and twist style manual override 1C = 
bidirectional type  = 04				18 = Common cavity: CA-08A-2N
bidirectional type  = 32				

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

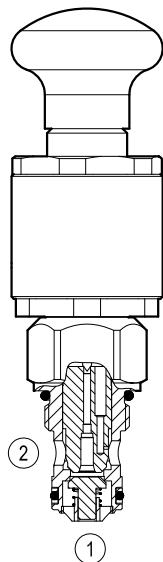
Type	Material number
OD1510181AS000	R901091152
OD1510181BS000	R901091154
OD1510181CS000	R901091155
OD1532181AS000	R901091171
OD1532181BS000	R901091173
OD1532181CS000	R901091174

Directional control valves manual operated poppet 2-way normally closed

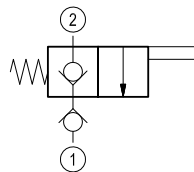
Special cavity, 019-E

VMI-8A-2A-06-NC-VU

OD.55.11.19.37 - Z



Version 11



2A11

General

Weight	kg (lbs)	0.28 (0.62)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

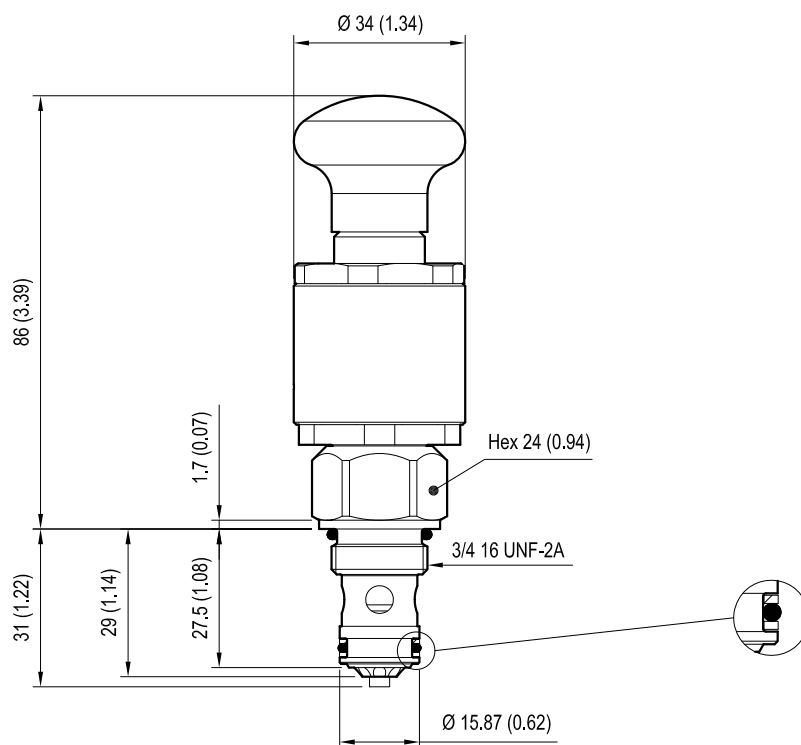
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		019-E see RE 18325-75
Seal kit	code material no.	RG19E201053010 R934003561
Other technical data		See data sheet RE 18350-50

Only for cam-operated valves:

Operating stroke	mm (in)	3 (0.12)
Max. overstroke	mm (in)	0.5 (0.02)

Dimensions

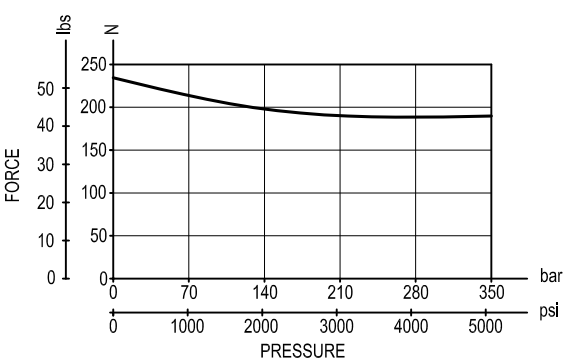
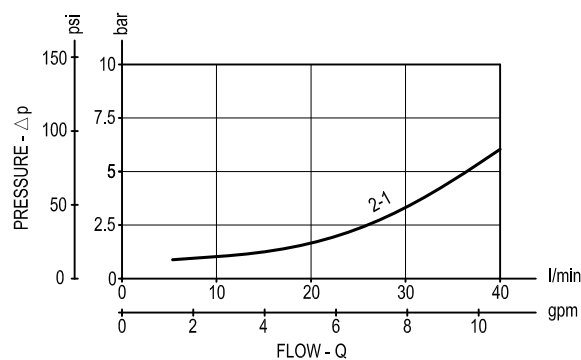
Directional control valves manual operated poppet 2-way normally closed - Special cavity



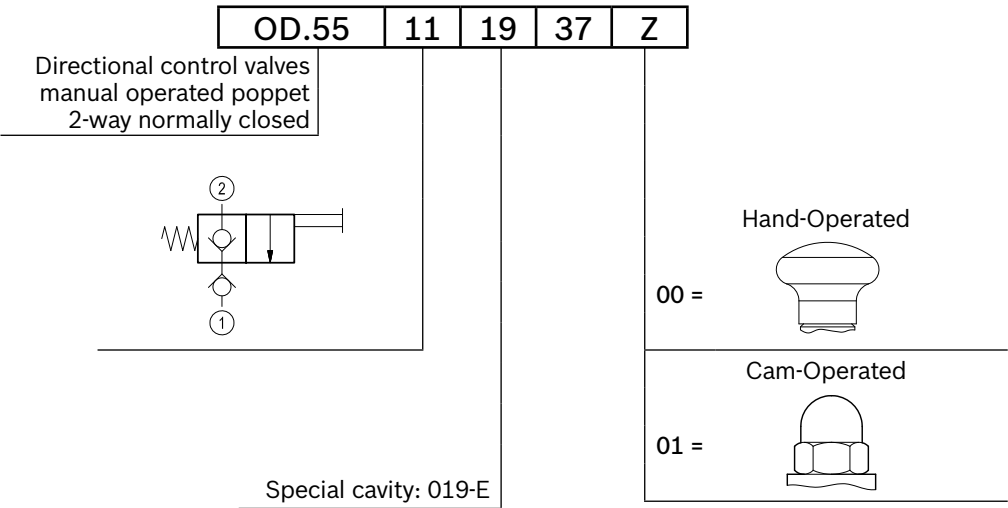
mm (Inches)

Performance graphs

Version 11



Ordering code



Type	Material number
OD551119370000	R934003668
OD551119370100	R934003669

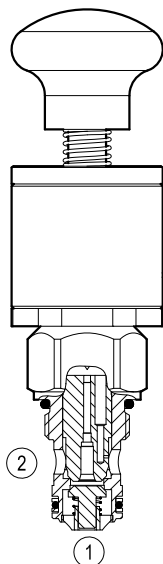
Type	Material number

Directional control valves manual operated poppet 2-way normally open

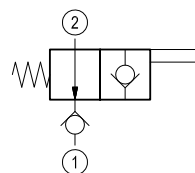
Special cavity, 019-E

VMI-8A-2A-06-NA-VU

OD.55.12.19.17 - Z



Version 12



2A12

General

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

Hydraulic

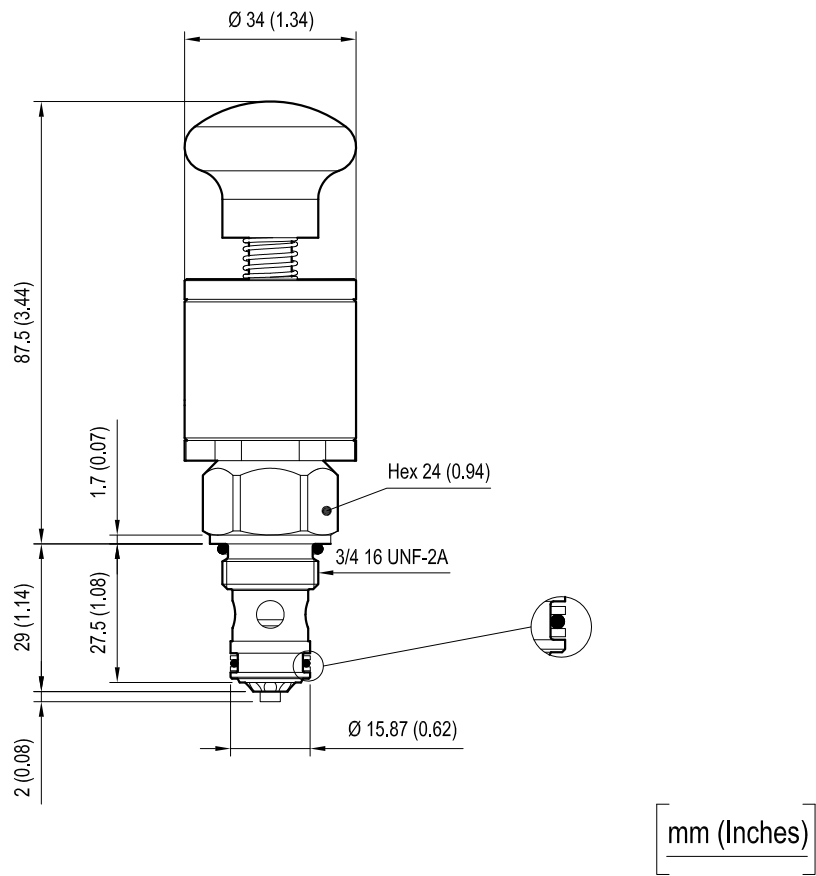
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		019-E see RE 18325-75
Seal kit	code material no.	RG19E201053010 R934003561
Other technical data		See data sheet RE 18350-50

Only for cam-operated valves:

Operating stroke	mm (in)	3 (0.12)
Max. overstroke	mm (in)	0.5 (0.02)

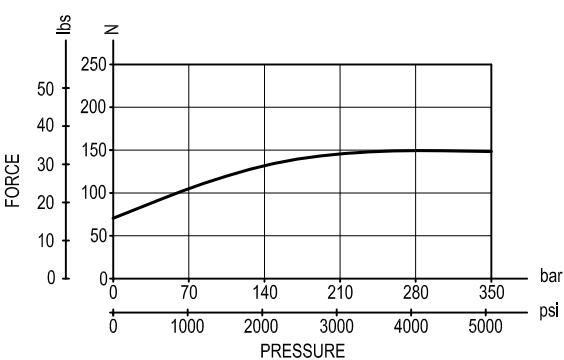
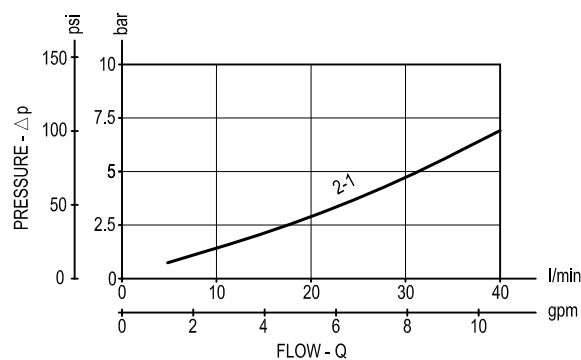
Dimensions

Directional control valves manual operated poppet 2-way normally open - Special cavity



Performance graphs

Version 12



Ordering code

OD.55

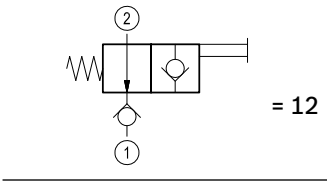
*

19

17

*


Directional control valves
manual operated poppet
2-way normally open



= 12

Special cavity: 019-E

Hand-Operated

00 = 

Type	Material number
OD551219170000	R934003670

Type	Material number

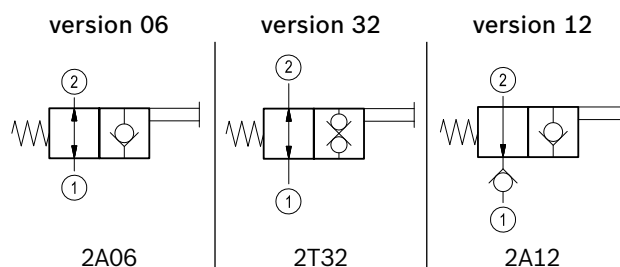
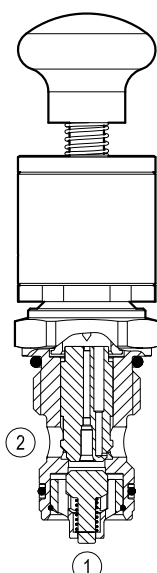
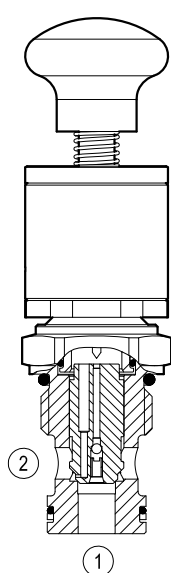
Directional control valves manual operated poppet 2-way normally open

Special cavity, 017-E



VMI-8A-2A-09-NA

OD.55 - X - 17.17.00



General

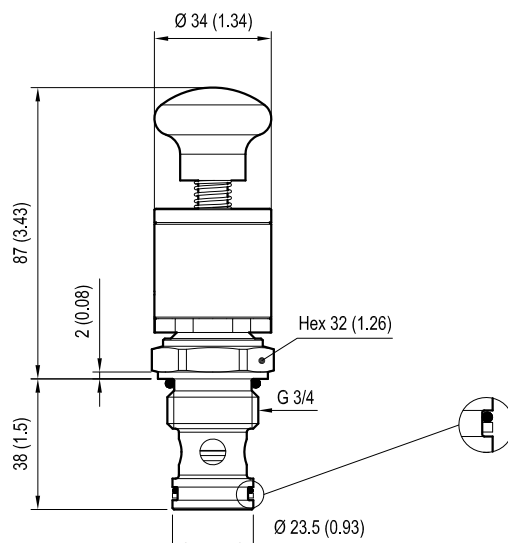
Weight	kg (lbs)	0.36 (0.79)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

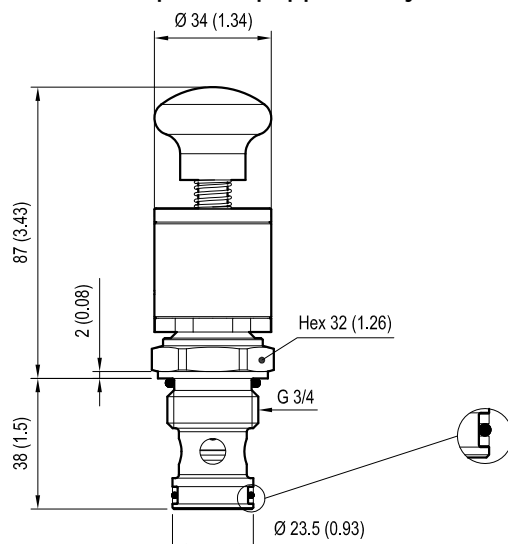
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	70 (19)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	54-66 (40-49)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		017-E see RE 18325-75
Seal kit - version 06	code material no.	RG17E201052010 R934003562
Seal kit - version 12	code material no.	RG17E201053010 r934003563
Other technical data		See data sheet RE 18350-50

Dimensions

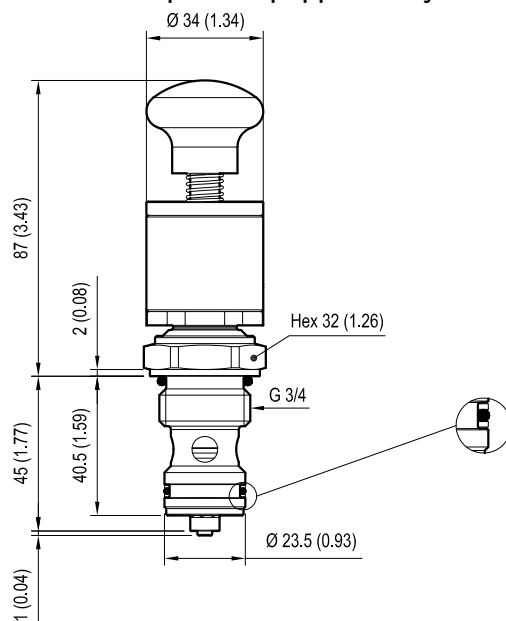
Version 06: Directional control valves manual operated poppet 2-way normally open - Special cavity



Version 32: Directional control valves manual operated poppet 2-way double lock normally open - Special cavity



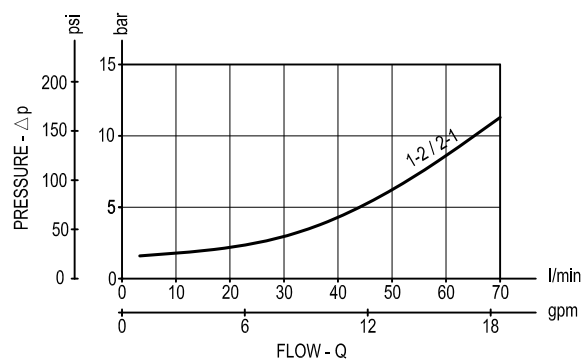
Version 12: Directional control valves manual operated poppet 2-way normally open - Special cavity



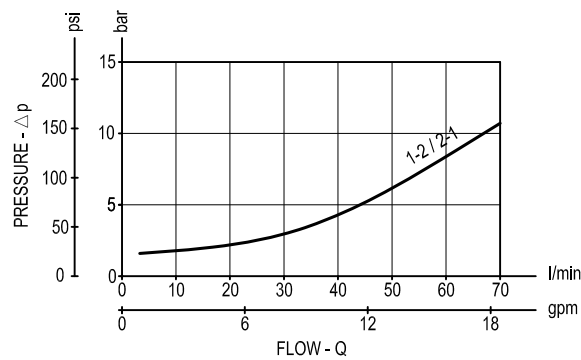
mm (Inches)

Performance graphs

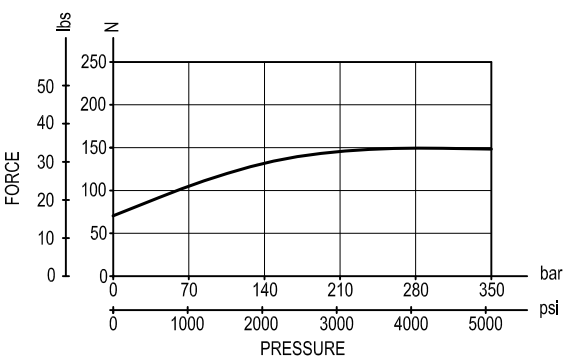
Version 06



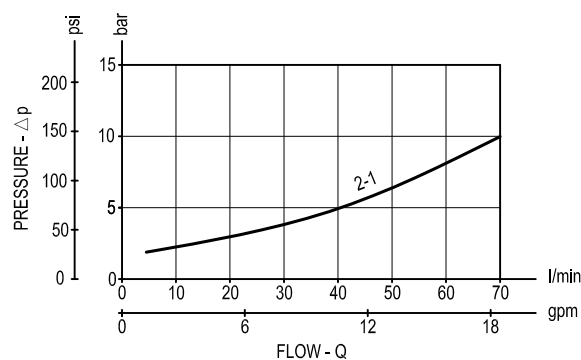
Version 32



Version 06 - 32 - 12



Version 12



Ordering code

OD.55

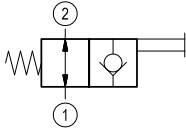
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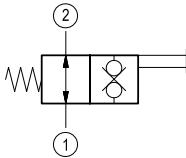
17

00

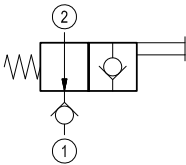
Directional control valves
manual operated poppet
2-way normally open



= 06




= 32



= 12

Hand-Operated



Special cavity: 017-E

Type	Material number
OD550617170000	R934001433
OD553217170000	R934003672
OD551217170000	R934003673

Type	Material number

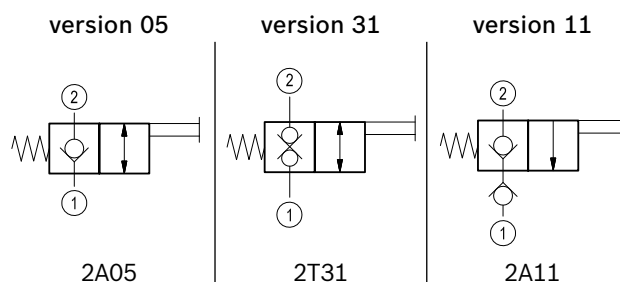
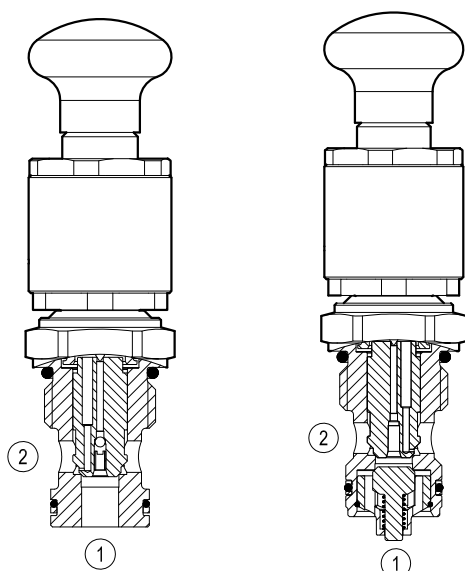
Directional control valves manual operated poppet 2-way normally closed

Special cavity, 017-E



VMI-8A-2A-09-NC

OD.55 - X - 17.37 - Z



General

Weight	kg (lbs)	0.28 (0.62)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	70 (19)
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. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		017-E see RE 18325-75
Seal kit - version 05	code material no.	RG17E201052010 R934003562
Seal kit - version 31	code material no.	RG17E201053010 R934003563
Other technical data		See data sheet RE 18350-50

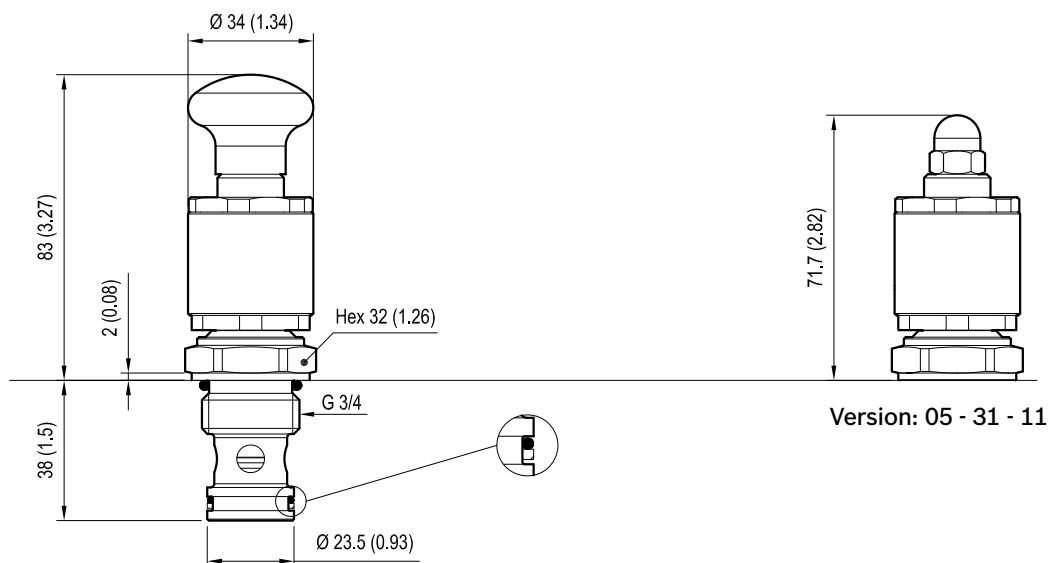
Only for cam-operated valves:

Operating stroke	mm (in)	3 (0.12)
Max. overstroke	mm (in)	0.5 (0.02)

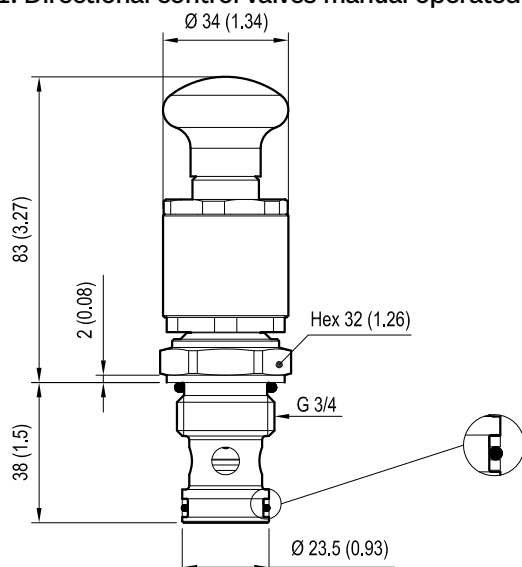
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure.
(version 05)

Dimensions

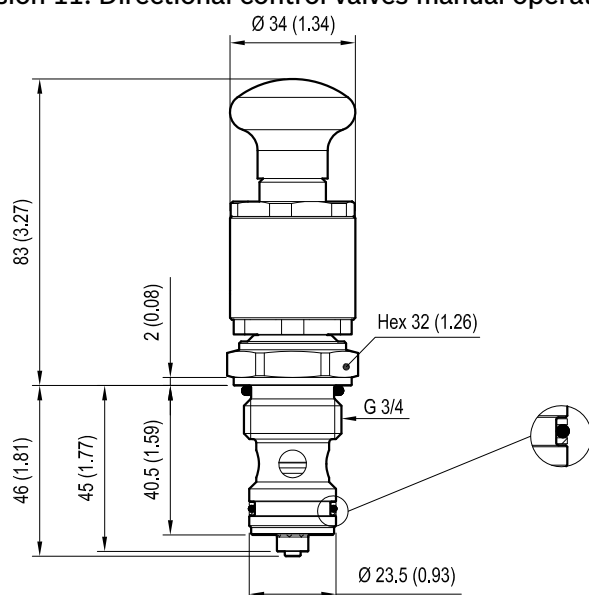
Version 05: Directional control valves manual operated poppet 2-way normally closed - Special cavity



Version 31: Directional control valves manual operated poppet 2-way double lock normally closed - Special cavity



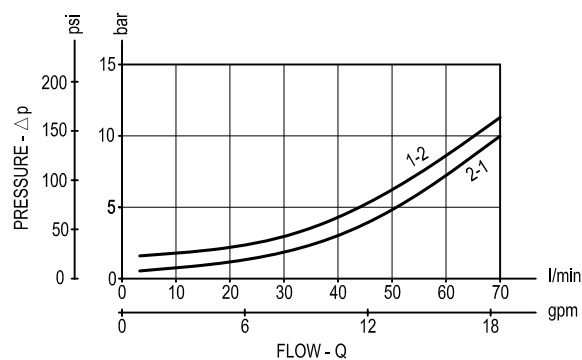
Version 11: Directional control valves manual operated poppet 2-way normally closed - Special cavity



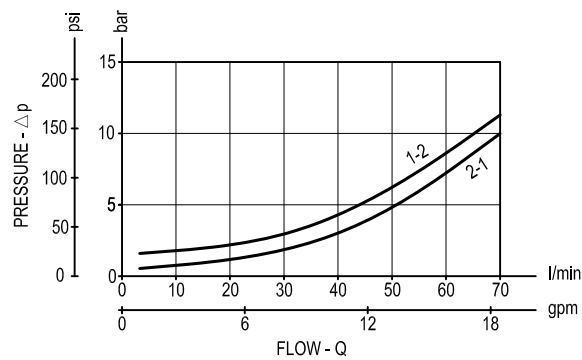
mm (Inches)

Performance graphs

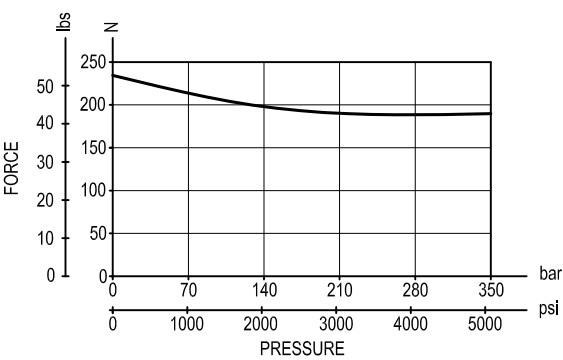
Version 05



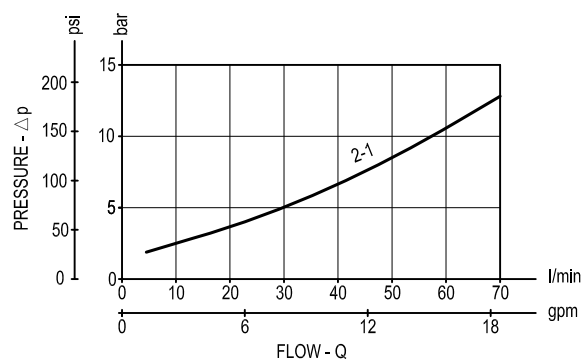
Version 31



Version 05 - 31 - 11

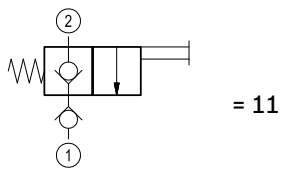
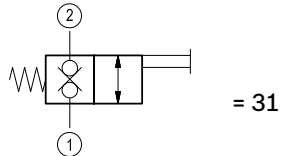


Version 11

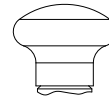


OD.55	X	17	37	Z
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= 05



00 =



01 =



Type	Material number
OD550517370000	R934001424
OD550517370100	R934001425
OD553117370000	R934001437
OD553117370100	R934001438
OD551117370000	R934003846
OD551117370100	R934003671

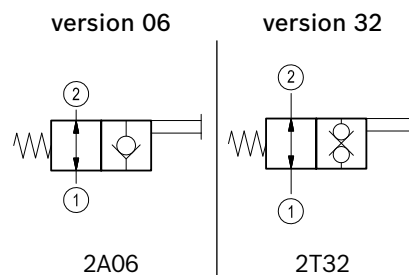
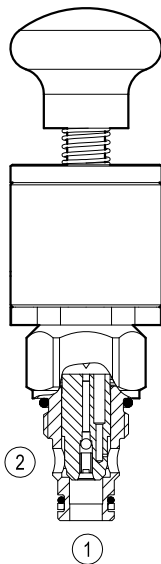
[illegible]

Directional control valves manual operated poppet 2-way normally open

Common cavity, Size 08

VMI-8A-2A-06-NA

OD.55 - X - 18.17.00



General

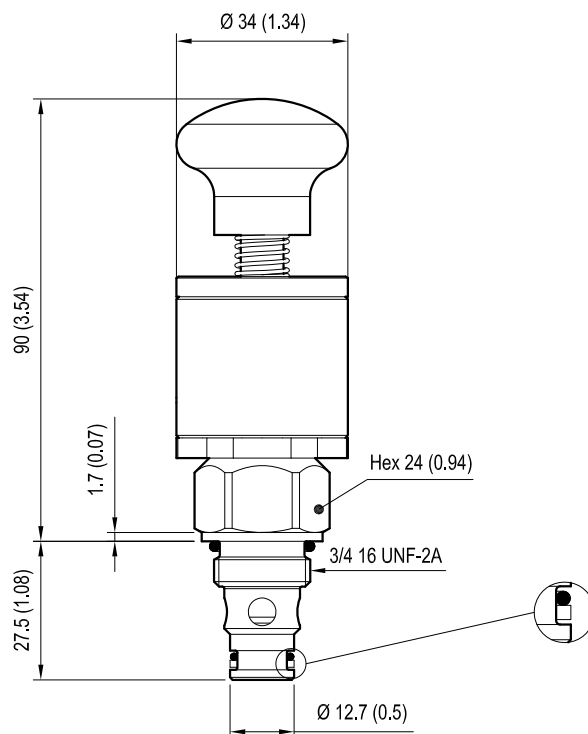
Weight	kg (lbs)	0.27 (0.6)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

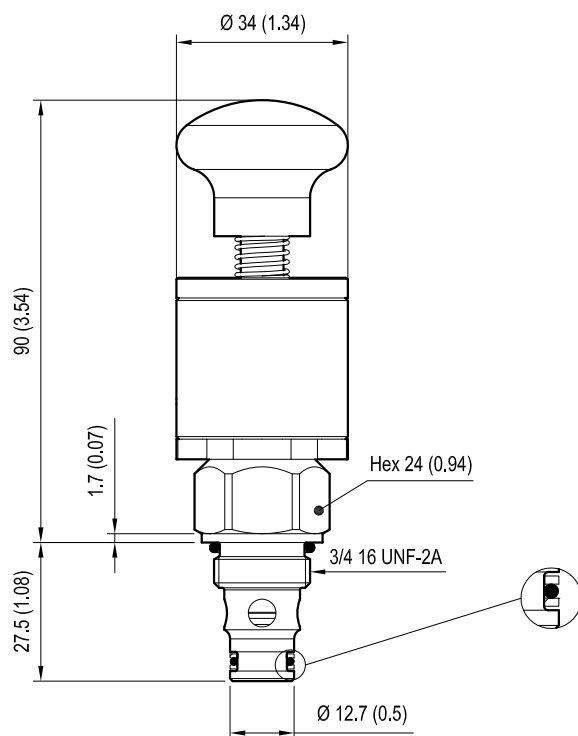
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit - version 06	code material no.	RG08A2010520100 R901101437
Seal kit - version 32	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

Dimensions

Version 06: Directional control valves manual operated poppet 2-way normally open



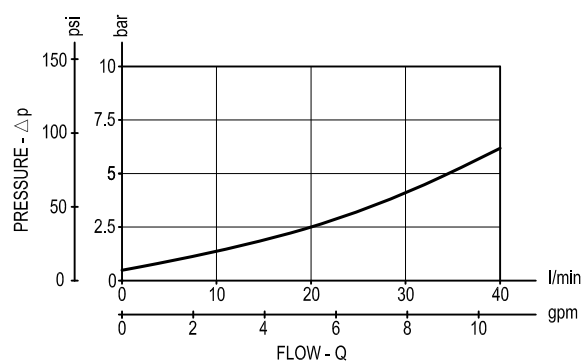
Version 32: Directional control valves manual operated poppet 2-way double lock normally open



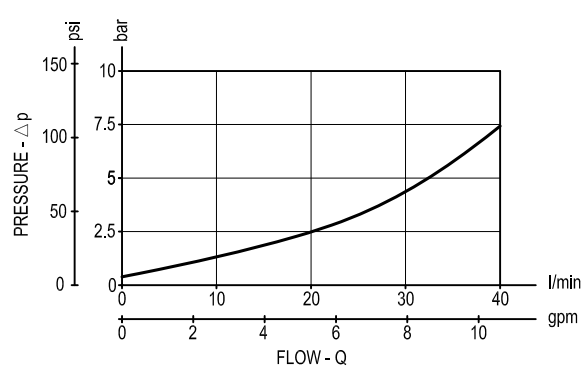
mm (Inches)

Performance graphs

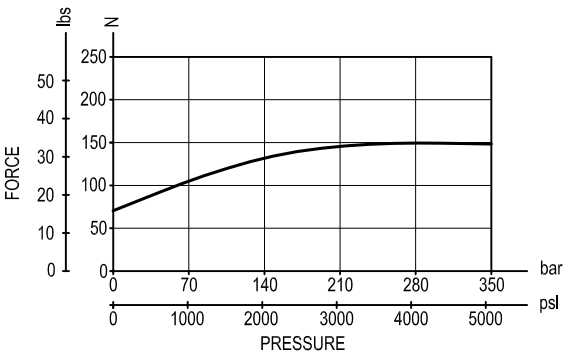
Version 06



Version 32



Version 06 - 32



Ordering code

OD.55

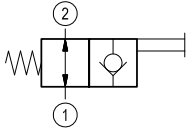
*

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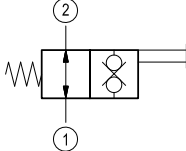
17

00

Directional control valves
manual operated poppet
2-way normally open




= 06



= 32

Hand-Operated



Common cavity: CA-08A-2N

Type	Material number
OD550618170000	R901109446
OD553218170000	R901109447

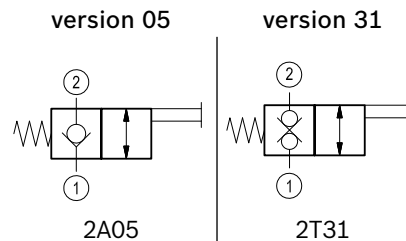
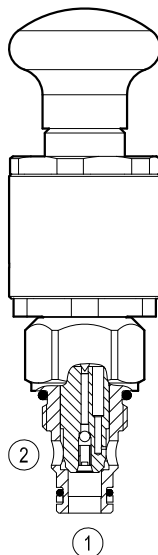
Type	Material number

Directional control valves manual operated poppet 2-way normally closed

Common cavity, Size 08

VMI-8A-2A-06-NC

OD.55 - X - 18.37 - Z



General

Weight	kg (lbs)	0.28 (0.62)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. 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
Cavity		CA-08A-2N see RE 18325-70
Seal kit - version 05	code material no.	RG08A2010520100 R901101437
Seal kit - version 31	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

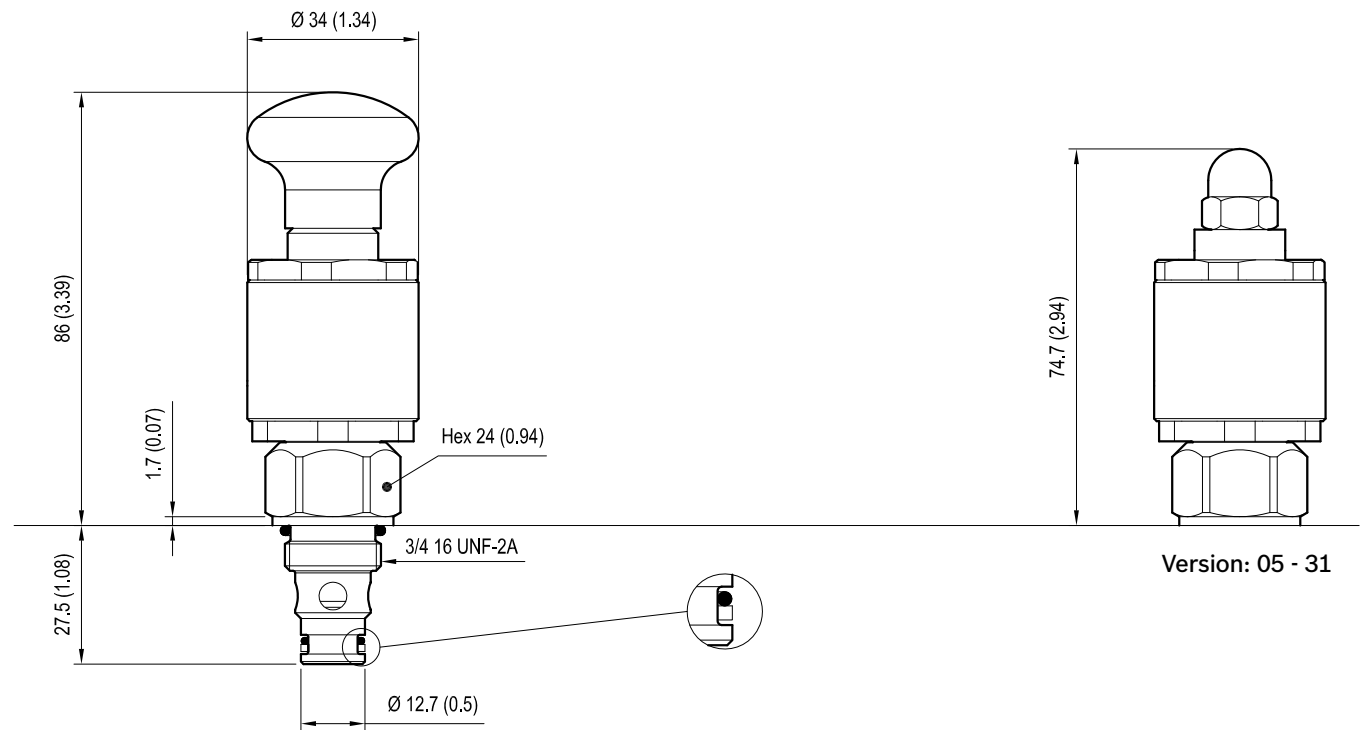
Only for cam-operated valves:

Operating stroke	mm (in)	3 (0.12)
Max. overstroke	mm (in)	0.5 (0.02)

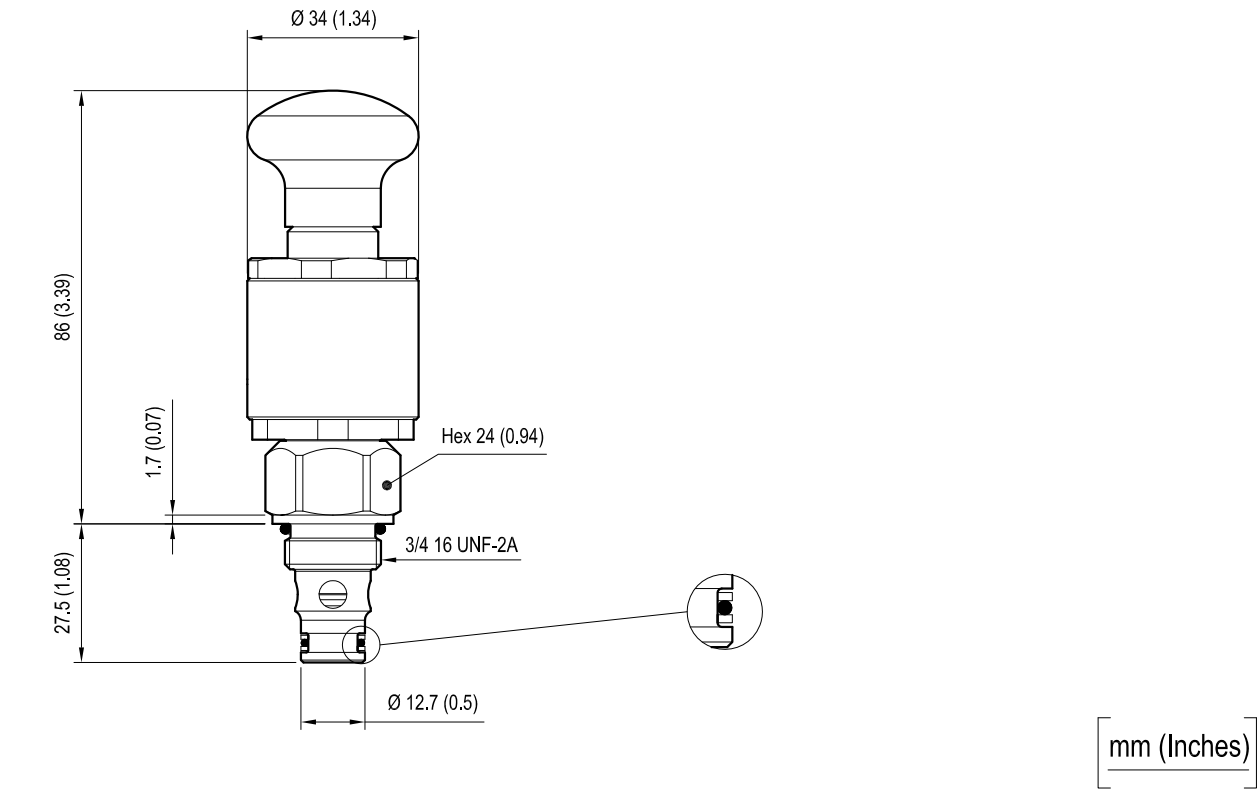
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 05)

Dimensions

Version 05: Directional control valves manual operated poppet 2-way normally closed

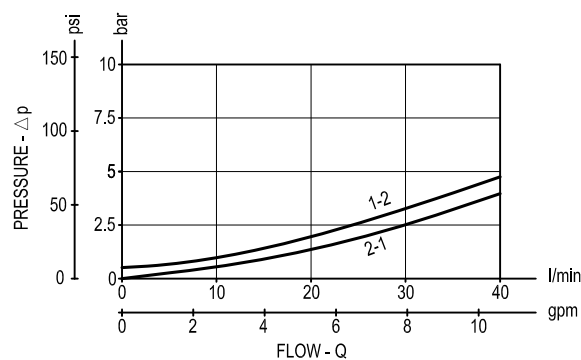


Version 31: Directional control valves manual operated poppet 2-way double lock normally closed

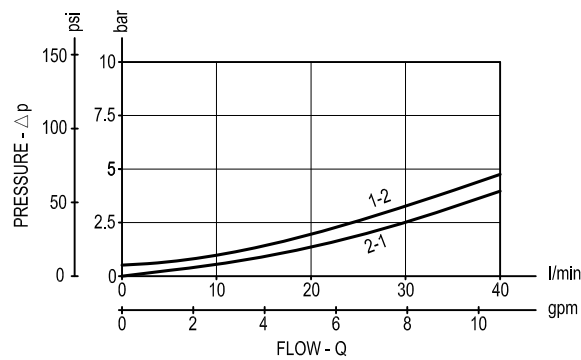


Performance graphs

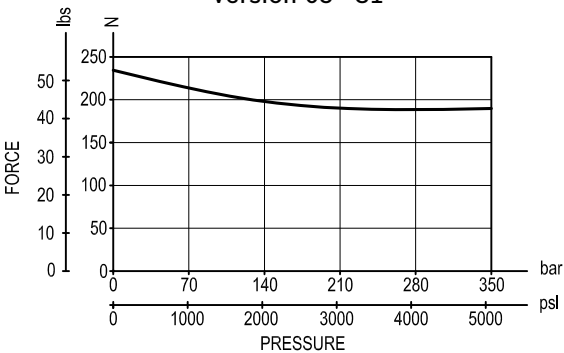
Version 05



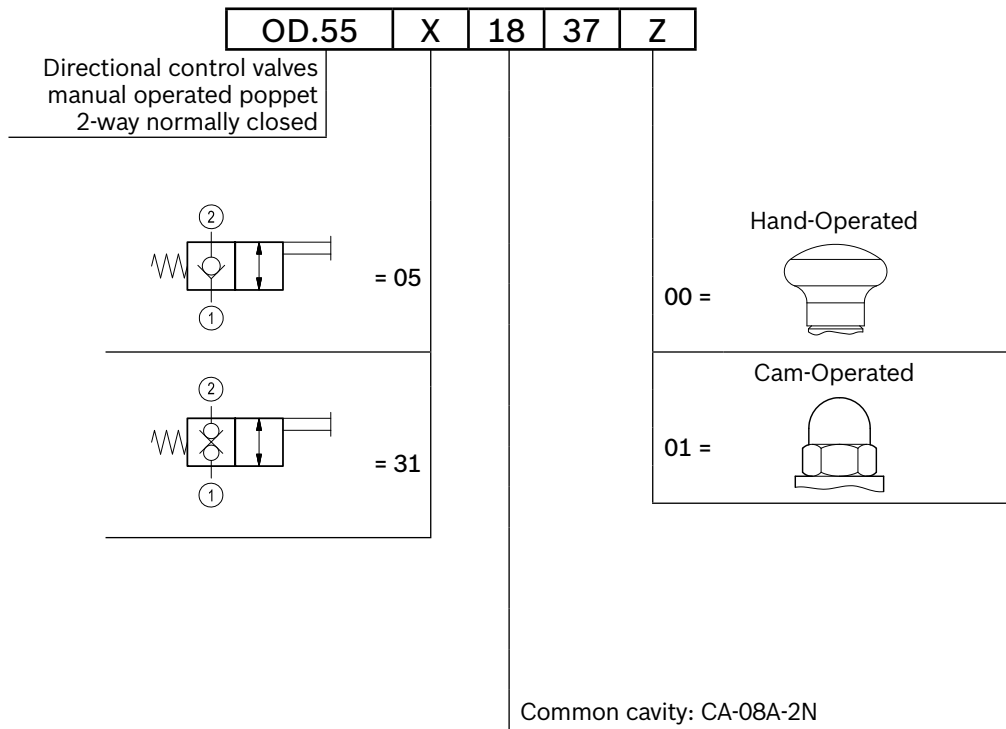
Version 31



Version 05 - 31



Ordering code



Type	Material number	Type	Material number
OD550518370000	R901109436		
OD550518370100	R901109443		
OD553118370000	R901109444		
OD553118370100	R901109445		

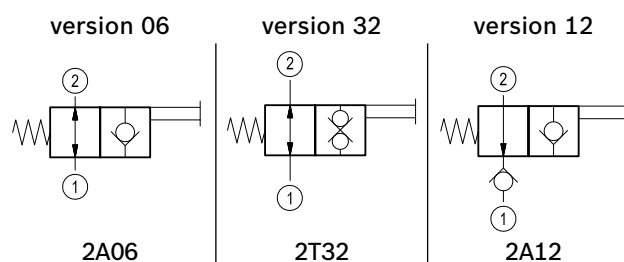
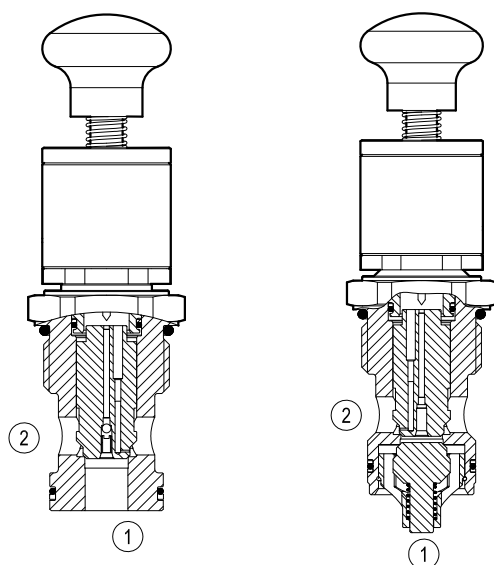
Directional control valves manual operated poppet 2-way normally open

Special cavity, 021-E



VMI-8A-2A-12-NA

OD.55 - X - 21.17.00



General

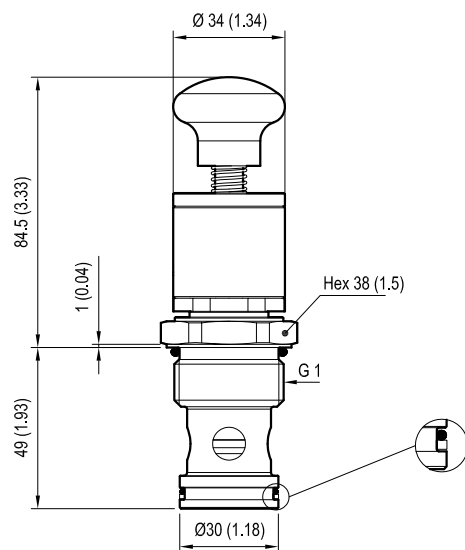
Weight	kg (lbs)	0.5 (1.1)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

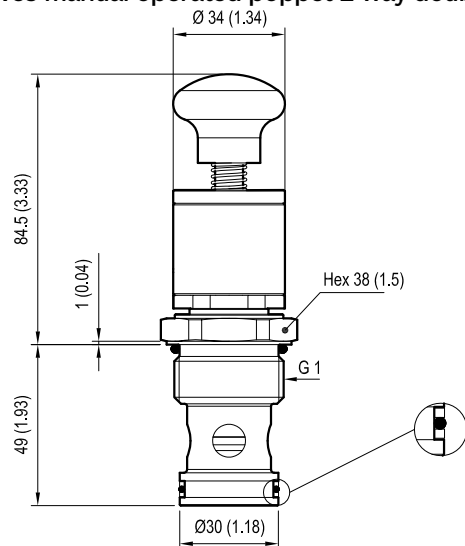
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	150 (39)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	80-100 (59-74)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		021-E see RE 18325-75
Seal kit - version 06	code material no.	RG21E201052010 R934003566
Seal kit - version 32	code material no.	RG21E201053010 R934003567
Other technical data		See data sheet RE 18350-50

Dimensions

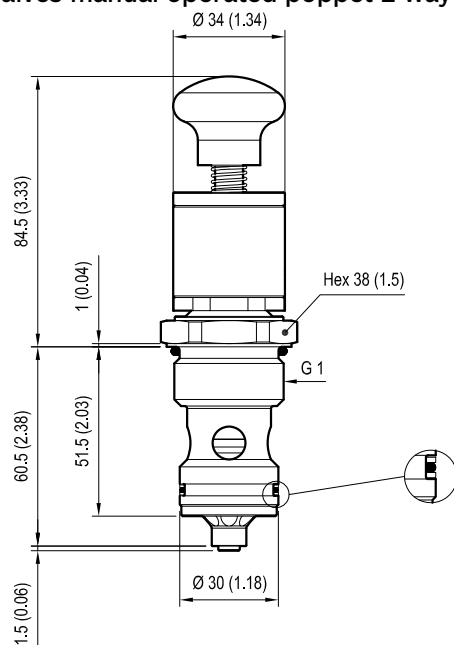
Version 06: Directional control valves manual operated poppet 2-way normally open - Special cavity



Version 32: Directional control valves manual operated poppet 2-way double lock normally open - Special cavity



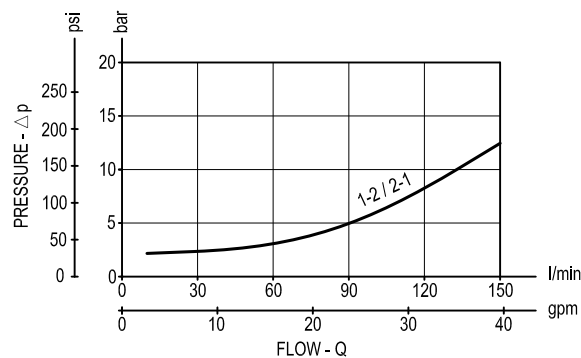
Version 12: Directional control valves manual operated poppet 2-way normally open - Special cavity



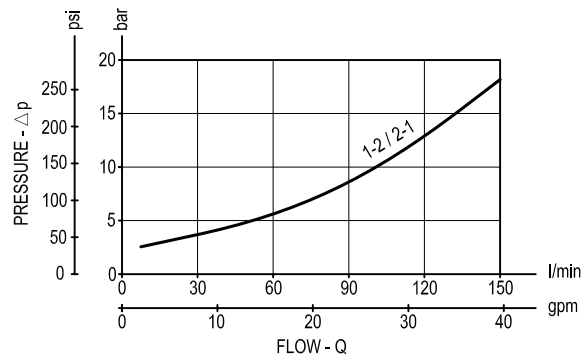
mm (Inches)

Performance graphs

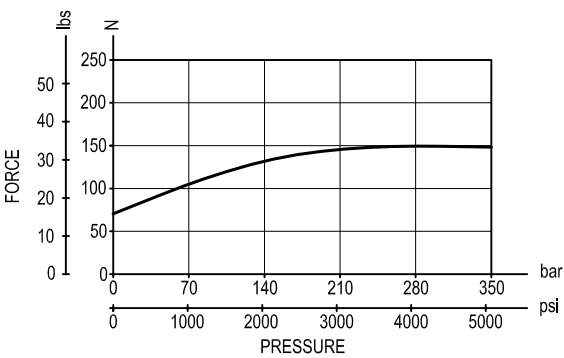
Version 06



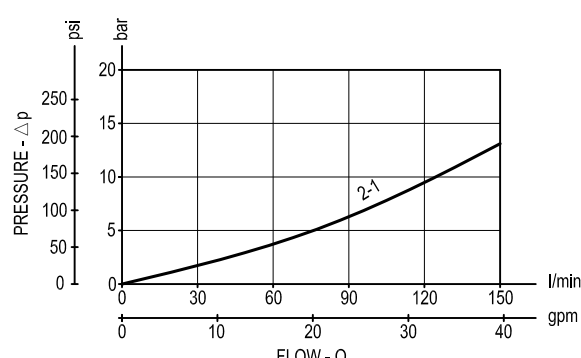
Version 32



Version 06 - 32 - 12



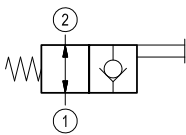
Version 12



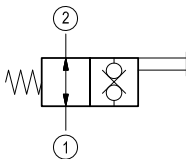
Ordering code

OD.55	*	21	17	00
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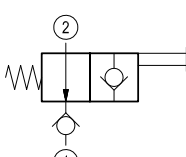
Directional control valves
manual operated poppet
2-way normally open



= 06




= 32



= 12

Hand-Operated



Special cavity: 021-E

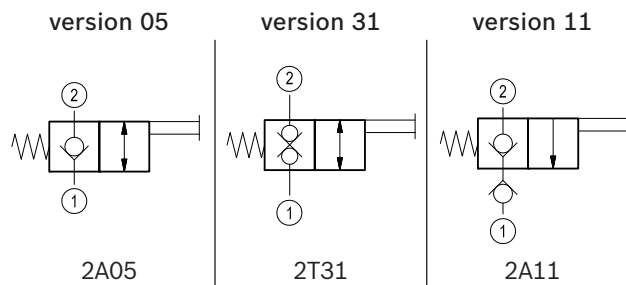
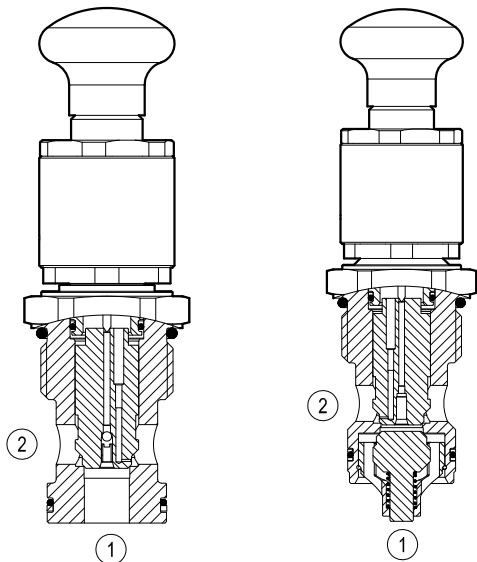
Type	Material number	Type	Material number
OD550621170000	R901122181		

Directional control valves manual operated poppet 2-way normally closed

Special cavity, 021-E

VMI-8A-2A-12-NC

OD.55 - X - 21.37 - Z



General

Weight	kg (lbs)	0.5 (1.1)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	150 (39)
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)	80-100 (59-74)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		021-E see RE 18325-75
Seal kit - version 05	code material no.	RG21E201052010 R934003566
Seal kit - version 31	code material no.	RG21E201053010 R934003567
Other technical data		See data sheet RE 18350-50

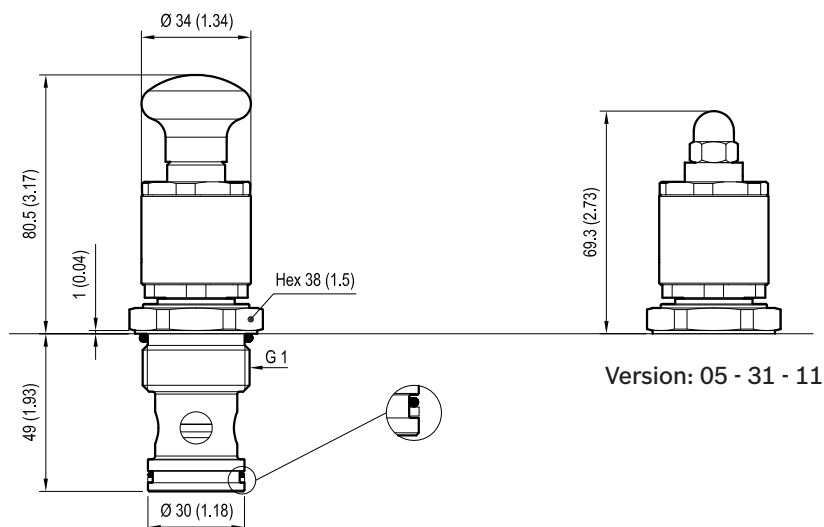
Only for cam-operated valves:

Operating stroke	mm (in)	3 (0.12)
Max. overstroke	mm (in)	0.5 (0.02)

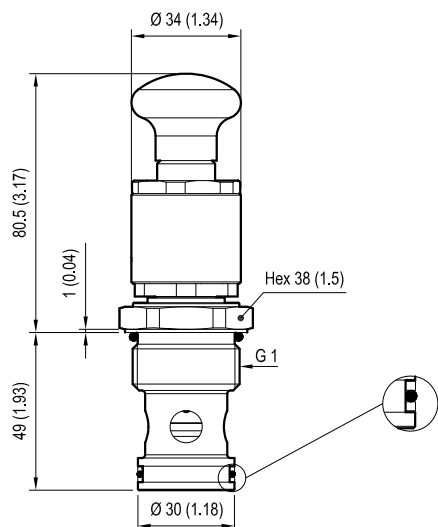
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 05)

Dimensions

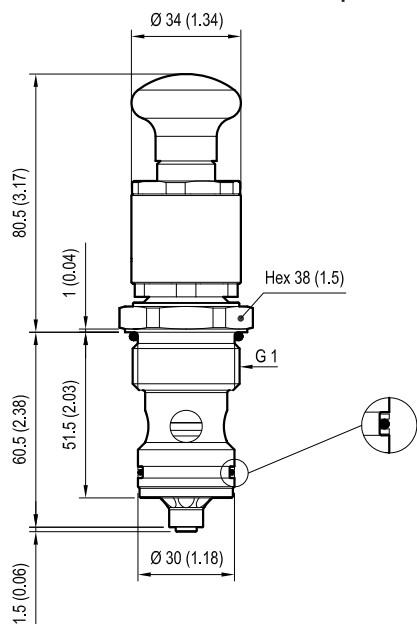
Version 05: Directional control valves manual operated poppet 2-way normally closed - Special cavity



Version 31: Directional control valves manual operated poppet 2-way double lock normally closed - Special cavity



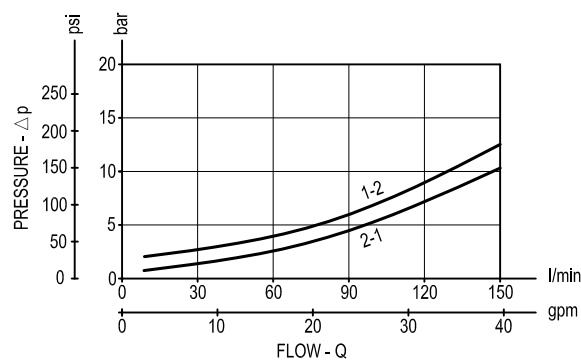
Version 11: Directional control valves manual operated poppet 2-way normally closed - Special cavity



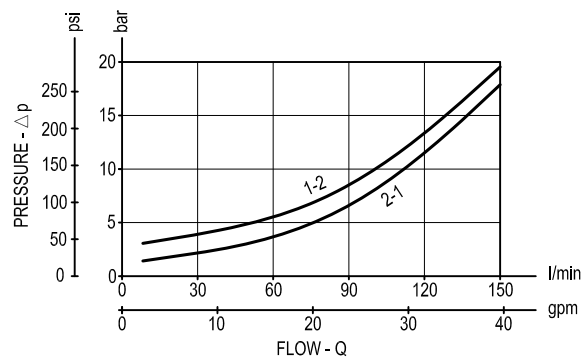
mm (Inches)

Performance graphs

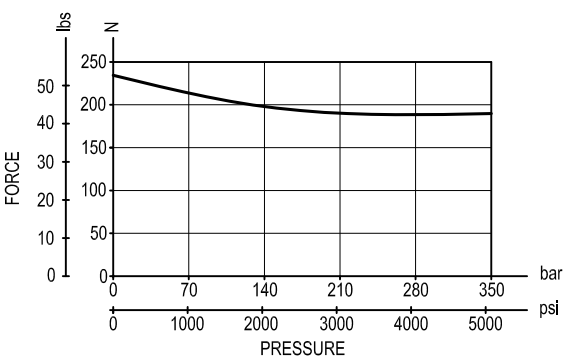
Version 05



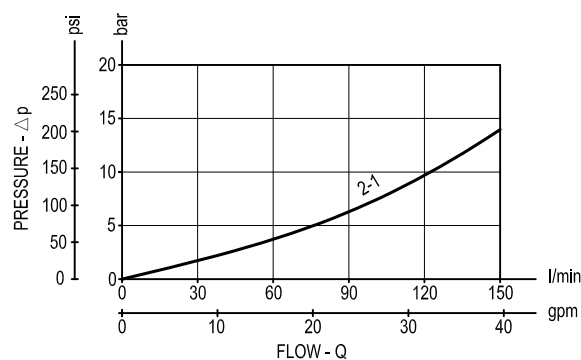
Version 31



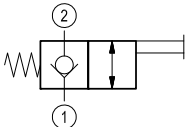

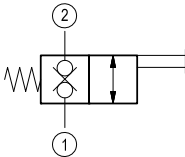

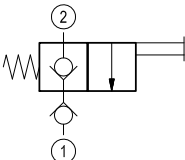
Version 05 - 31 - 11



Version 11



Ordering code

OD.55	X	21	37	Z
<p>Directional control valves manual operated poppet 2-way normally closed</p>				
 <p>= 05</p>				<p>Hand-Operated</p>  <p>00 =</p>
 <p>= 31</p>				<p>Cam-Operated</p>  <p>01 =</p>
 <p>= 11</p>				
Special cavity: 021-E				

Type	Material number	Type	Material number
OD550521370000	R934001430		
OD550521370100	R934001431		
OD553121370000	R934001441		
OD553121370100	R934001442		
OD551121370000	R934004212		
OD551121370100	R934004213		

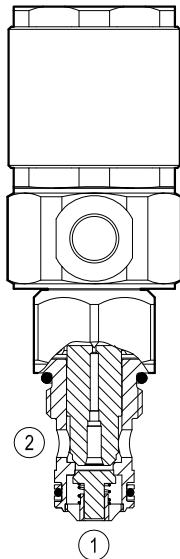
Directional control valves pneumatic operated poppet 2-way normally closed

Special cavity, 019-E

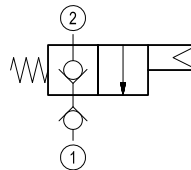


VPI-8A-2A-06-NC-VU

OD.65.11.19.14.00



version 11



General

Weight	kg (lbs)	0.27 (0.58)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

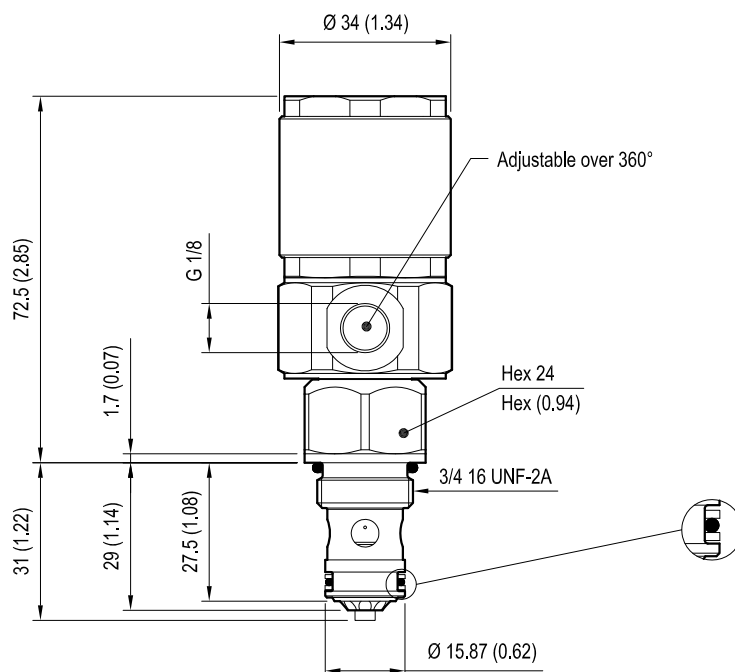
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. 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
Cavity		019-E see RE 18325-75
Seal kit	code material no.	RG19E201053010 R934003561
Other technical data		See data sheet RE 18350-50

Dimensions

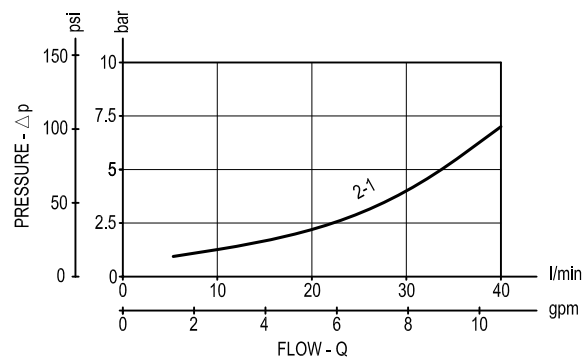
Version 11: Directional control valves pneumatic operated poppet 2-way normally closed - Special cavity



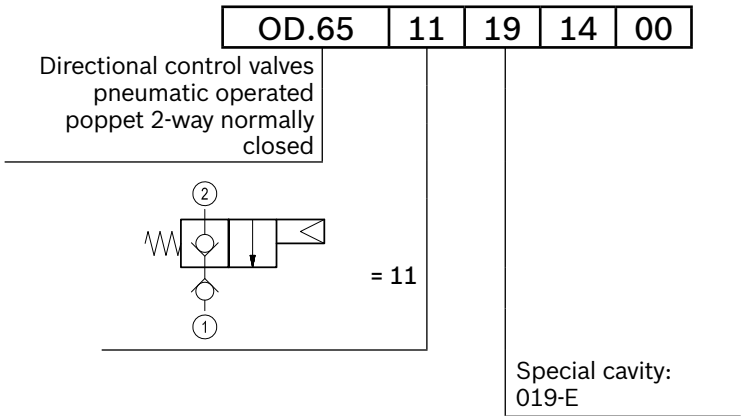
mm (Inches)

Performance graphs

Version 11



Ordering code



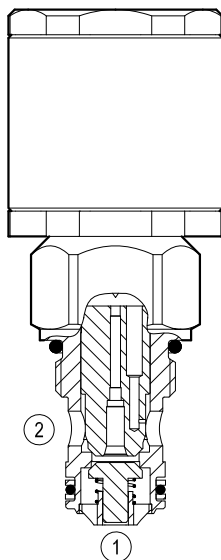
Directional control valves pneumatic operated poppet 2-way normally open

Special cavity, 019-E

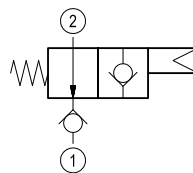


VPI-8A-2A-06-NA-VU

OD.65.12.19.14.00



version 12



General

Weight	kg (lbs)	0.27 (0.58)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

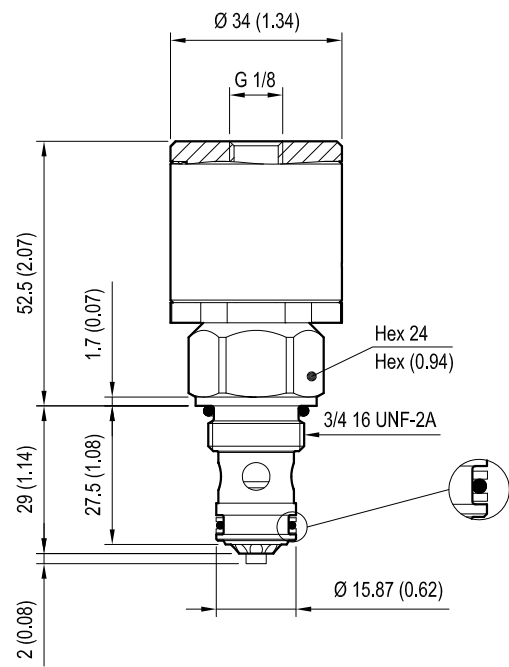
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. 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
Cavity		019-E see RE 18325-75
Seal kit	code material no.	RG19E201053010 R934003561
Other technical data		See data sheet RE 18350-50

Dimensions

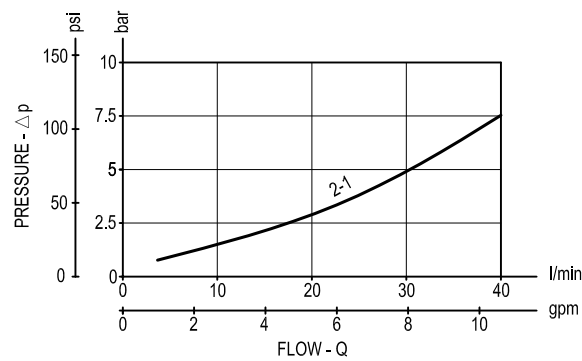
Version 12: Directional control valves pneumatic operated poppet 2-way normally open - Special cavity



mm (Inches)

Performance graphs

Version 12



Ordering code

OD.65

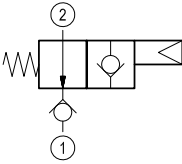
12

19

14

00

Directional control valves
pneumatic operated
poppet 2-way normally
open



Special cavity:
019-E

Type	Material number
OD651219140000	R934003677

Type	Material number

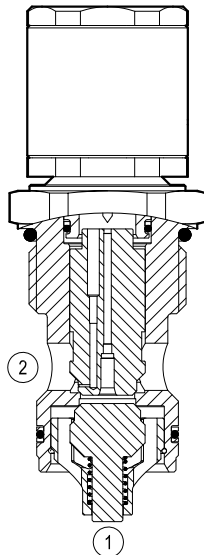
Directional control valves pneumatic operated poppet 2-way normally open

Special cavity, 021-E

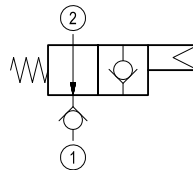


VPI-8A-2A-12-NA-VU

OD.65.12.21.14.00



version 12



General

Weight	kg (lbs)	0.48 (1.1)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Only for cam-operated valves:

Operating stroke	mm (in)	3 (0.12)
Max. overstroke	mm (in)	0.5 (0.02)

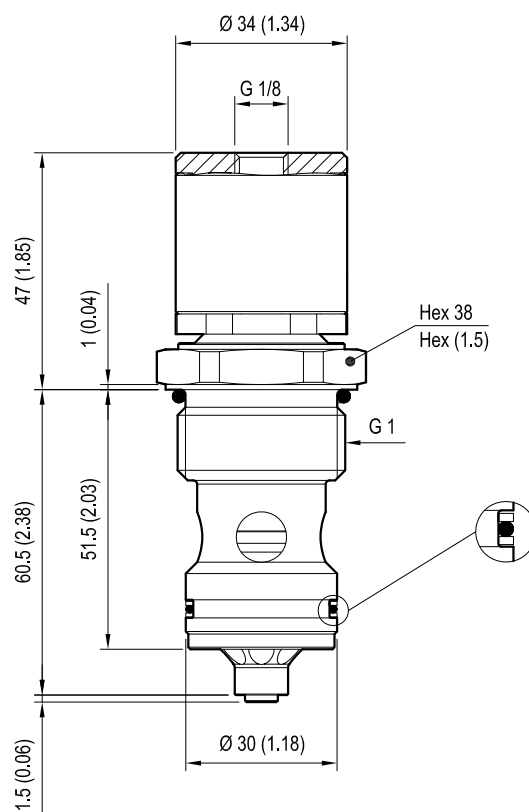
Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	150 (39)
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)	80-100 (59-74)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		021-E see RE 18325-75
Seal kit	code material no.	RG21E201053010 R934003567
Other technical data		See data sheet RE 18350-50

Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Dimensions

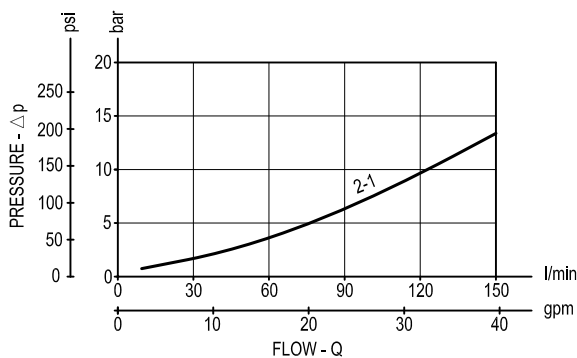
Version 12: Directional control valves pneumatic operated poppet 2-way normally open - Special cavity



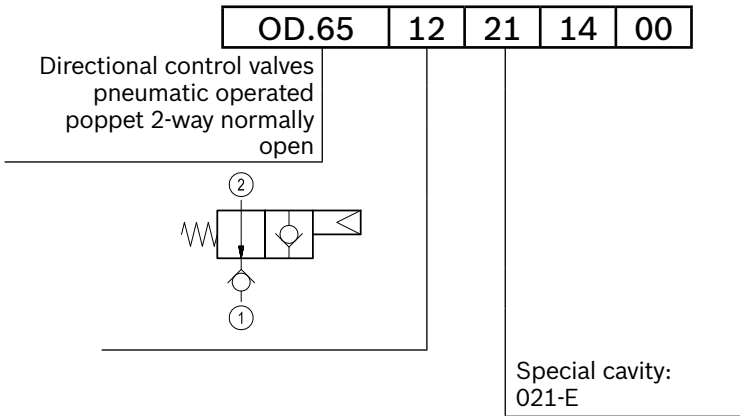
[mm (Inches)]

Performance graphs

Version 12



Ordering code



Type	Material number
OD651221140000	R934003676

Type	Material number

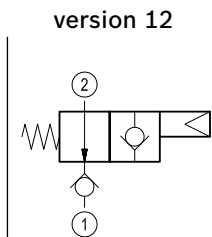
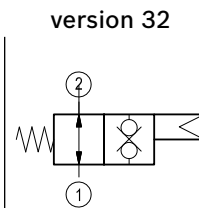
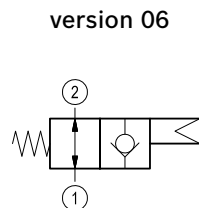
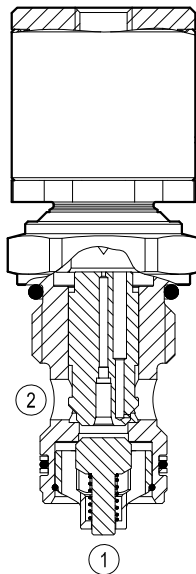
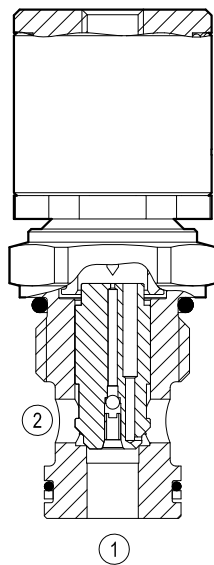
Directional control valves pneumatic operated poppet 2-way normally open

Special cavity, 017-E



VPI-8A-2A-09-NA

OD.65 - X - 17.14.00



General

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

Hydraulic

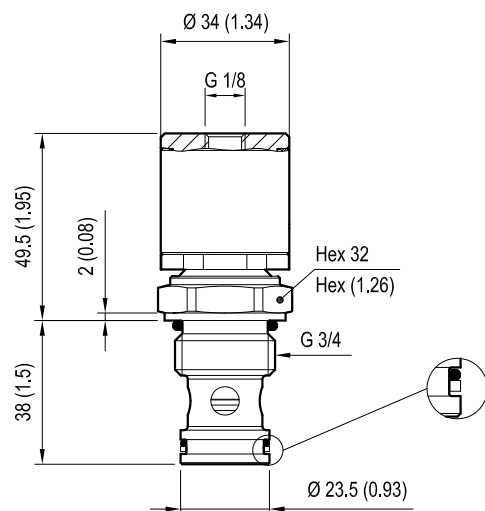
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	70 (19)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	54-66 (40-49)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		017-E see RE 18325-75
Seal kit - version 06-12	code material no.	RG17E201052010 R934003562
Seal kit - version 32	code material no.	RG17E201053010 R934003563
Other technical data		See data sheet RE 18350-50

IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 06)

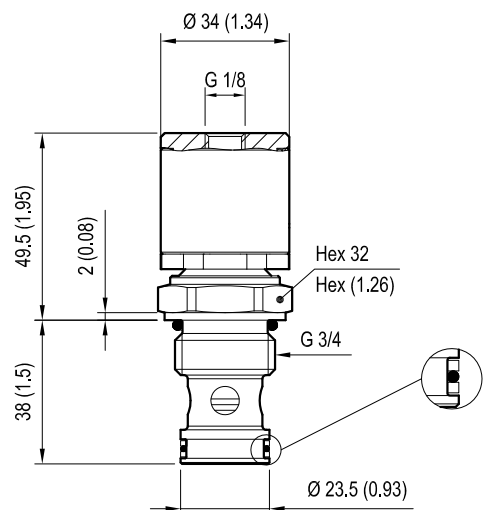
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Dimensions

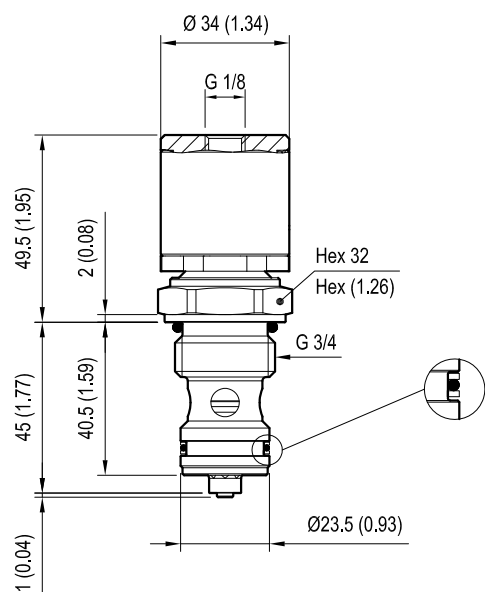
Version 06: Directional control valves pneumatic operated poppet 2-way normally open - Special cavity



Version 32: Directional control valves pneumatic operated poppet 2-way double lock normally open - Special cavity



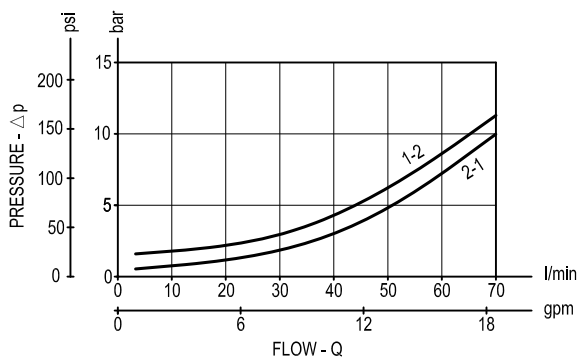
Version 12: Directional control valves pneumatic operated poppet 2-way normally open - Special cavity



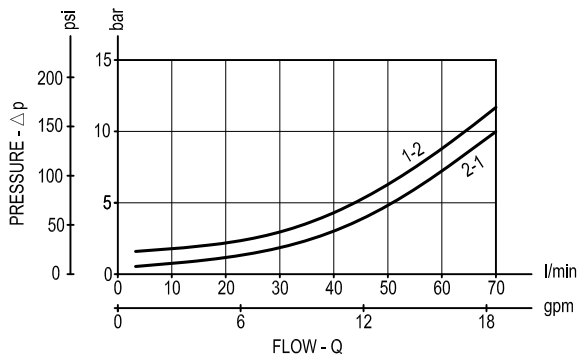
mm (Inches)

Performance graphs

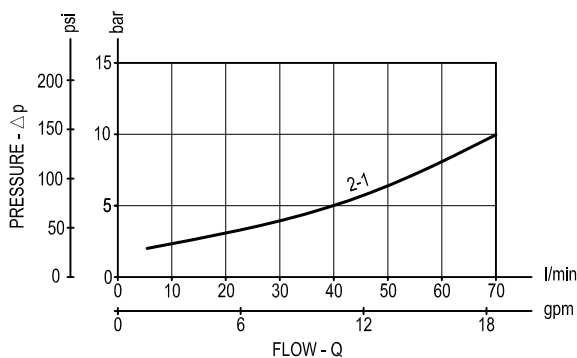
Version 06



Version 32



Version 12



Ordering code

OD.65

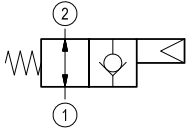
*

17

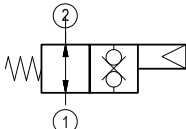
14

00

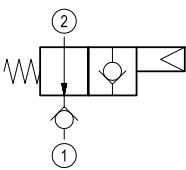
Directional control valves
pneumatic operated
poppet 2-way normally
open



= 06



= 32



= 12

Special cavity: 017-E

Type	Material number
OD650617140000	R934001448
OD653217140000	R934001460
OD651217140000	R934003128

Type	Material number

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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.

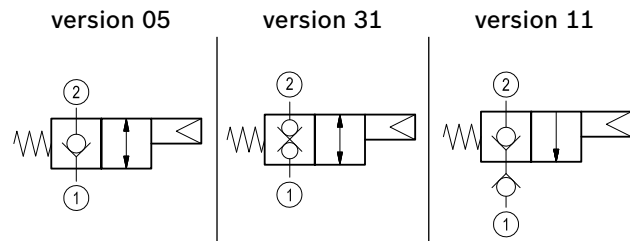
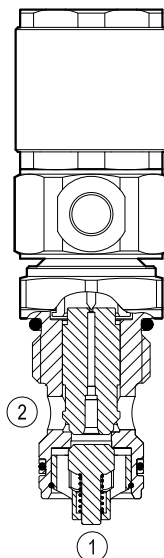
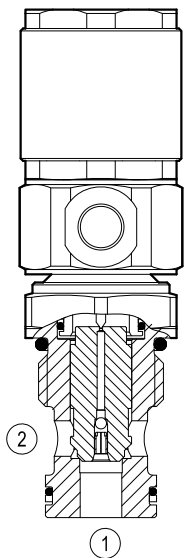
Directional control valves pneumatic operated poppet 2-way normally closed

Special cavity, 017-E



VPI-8A-2A-09-NC

OD.65 - X - 17.14.00



General

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

Hydraulic

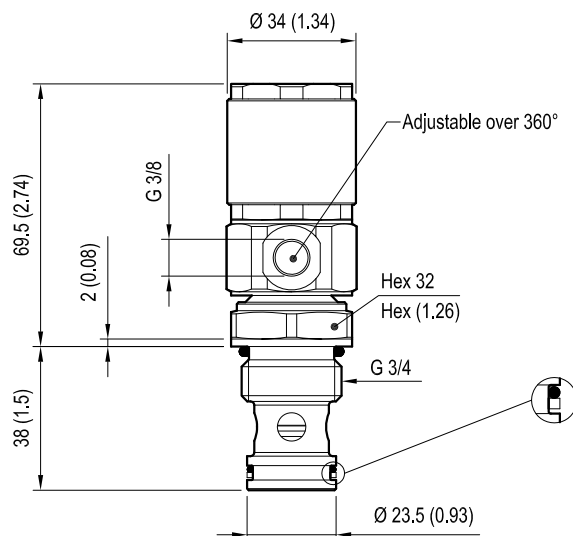
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	70 (19)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	54-66 (40-49)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		017-E see RE 18325-75
Seal kit - version 05-11	code material no.	RG17E201052010 R934003562
Seal kit - version 31	code material no.	RG17E201053010 R934003563
Other technical data		See data sheet RE 18350-50

IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 05)

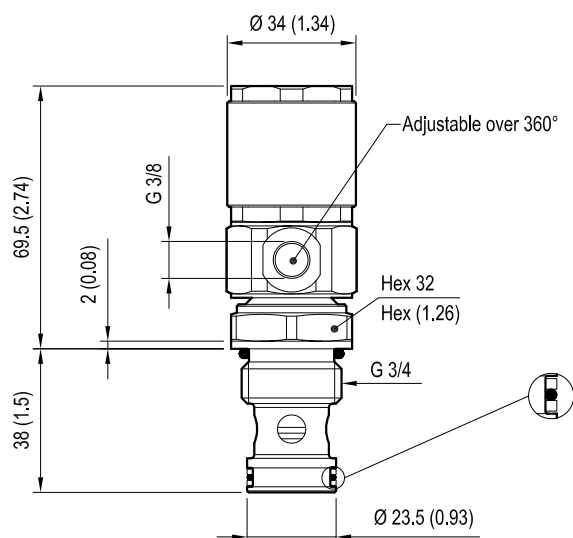
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Dimensions

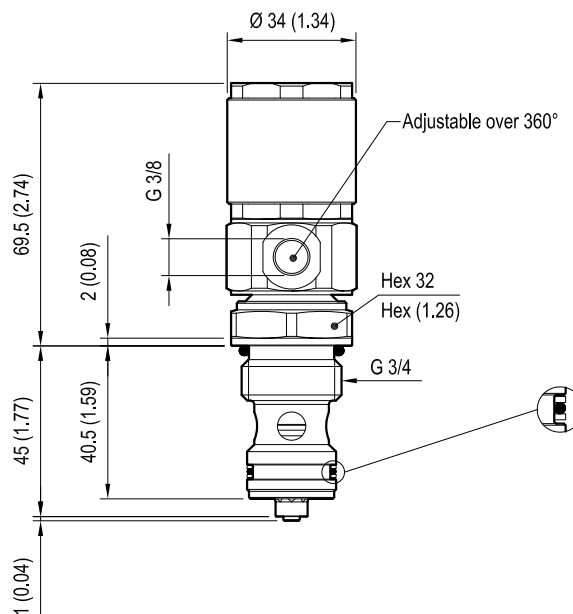
Version 05: Directional control valves pneumatic operated poppet 2-way normally closed - Special cavity



Version 31: Directional control valves pneumatic operated poppet 2-way double lock normally closed - Special cavity



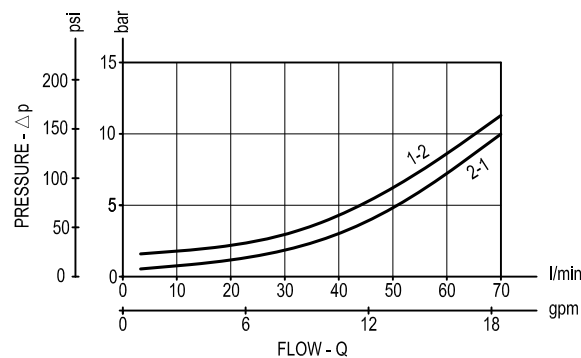
Version 11: Directional control valves pneumatic operated poppet 2-way normally closed - Special cavity



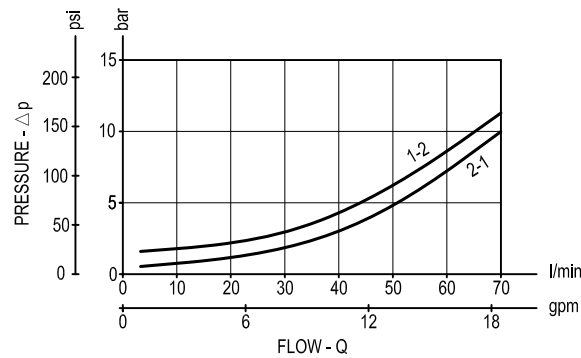
mm (Inches)

Performance graphs

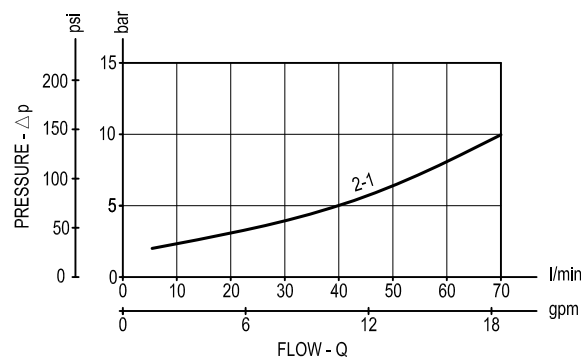
Version 05



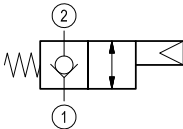
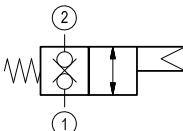
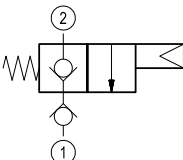
Version 31



Version 11



Ordering code

OD.65		*	17	14	00
Directional control valves pneumatic operated poppet 2-way normally closed					
 = 05					
 = 31					
 = 11					
Special cavity: 017-E					

Type	Material number
OD650517140000	R934001444
OD653117140000	R934001457
OD651117140000	R934001454

[illegible]

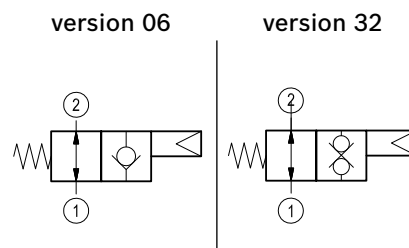
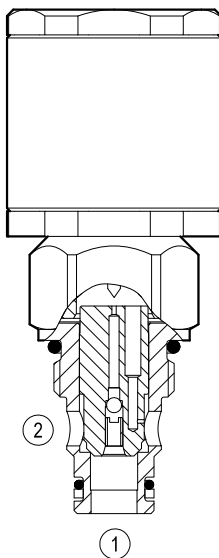
Directional control valves pneumatic operated poppet 2-way normally open

Common cavity, Size 08



VPI-8A-2A-06-NA

OD.65 - X - 18.14.00



General

Weight	kg (lbs)	0.27 (0.58)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

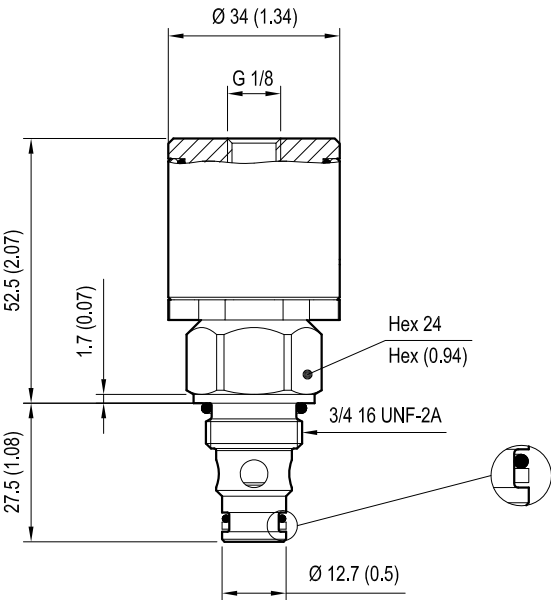
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit - version 06	code material no.	RG08A2010520100 R901101437
Seal kit - version 32	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure.
(version 06)

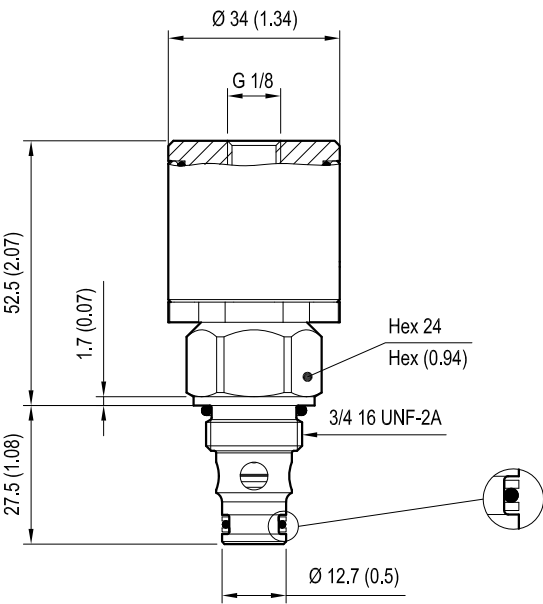
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Dimensions

Version 06: Directional control valves pneumatic operated poppet 2-way normally open



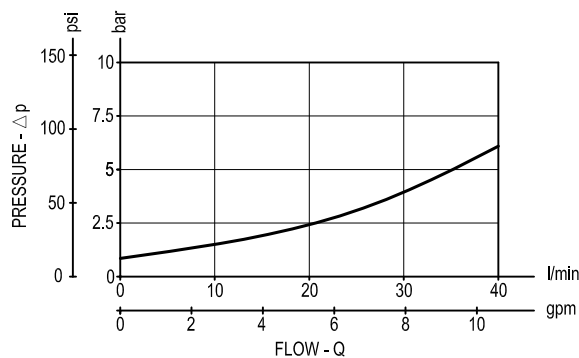
Version 32: Directional control valves pneumatic operated poppet 2-way double lock normally open



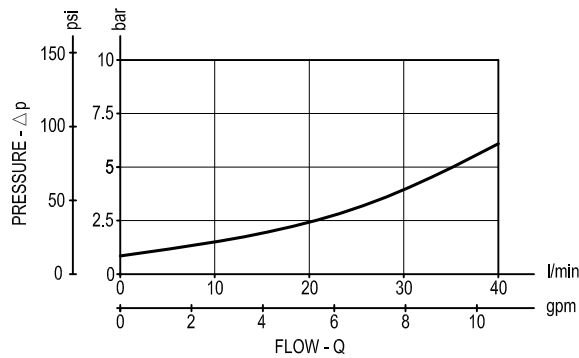
mm (Inches)

Performance graphs

Version 06



Version 32



Ordering code

OD.65

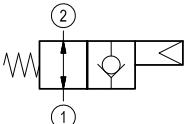
*

18

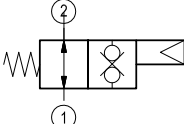
14

00

Directional control valves
pneumatic operated
poppet 2-way normally
open



= 06



= 32

Common cavity: CA-08A-2N

Type	Material number
OD650618140000	R901109464
OD653218140000	R901109466

Type	Material number

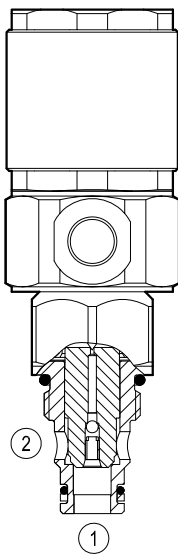
Directional control valves pneumatic operated poppet 2-way normally closed

Common cavity, Size 08



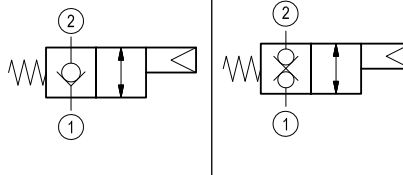
VPI-8A-2A-06-NC

OD.65 - X - 18.14.00



version 05

version 31



General

Weight	kg (lbs)	0.27 (0.58)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

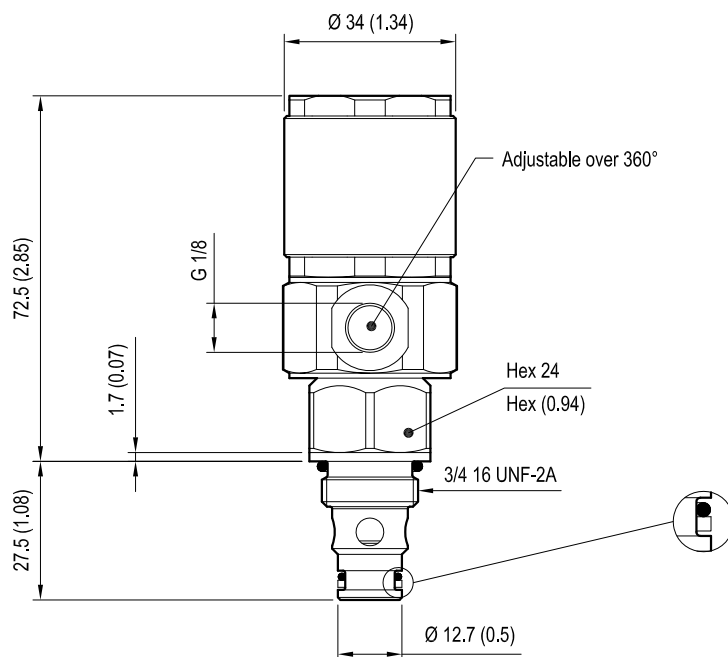
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit - version 05	code material no.	RG08A2010520100 R901101437
Seal kit - version 31	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure.
(version 05)

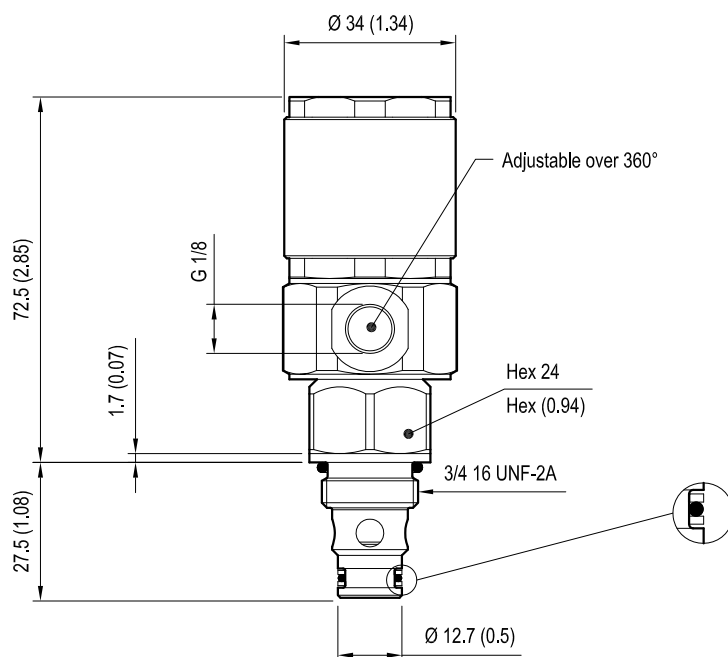
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Dimensions

Version 05: Directional control valves pneumatic operated poppet 2-way normally closed



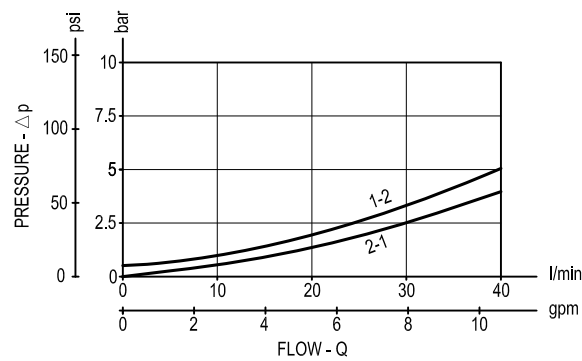
Version 31: Directional control valves pneumatic operated poppet 2-way double lock normally closed



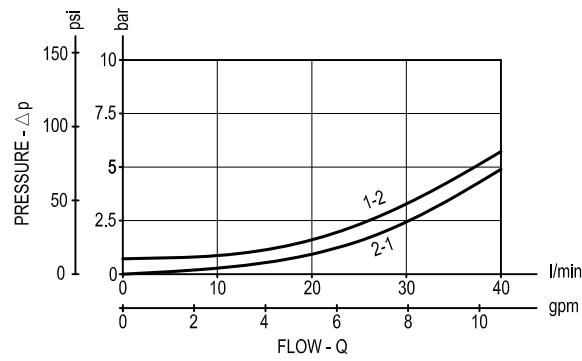
mm (Inches)

Performance graphs

Version 5



Version 31



OD.65	*	18	14	00
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= 05

= 31

Type	Material number
OD650518140000	R901109457
OD653118140000	R901109462

[illegible]

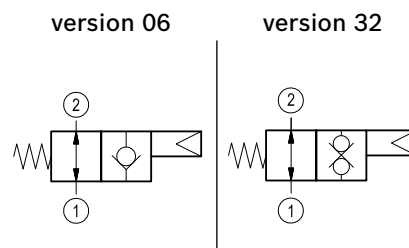
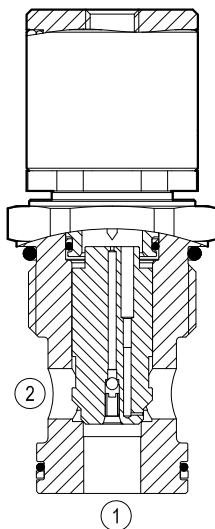
Directional control valves pneumatic operated poppet 2-way normally open

Special cavity, 021-E



VPI-8A-2A-12-NA

OD.65 - X - 21.14.00



General

Weight	kg (lbs)	0.48 (1.1)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

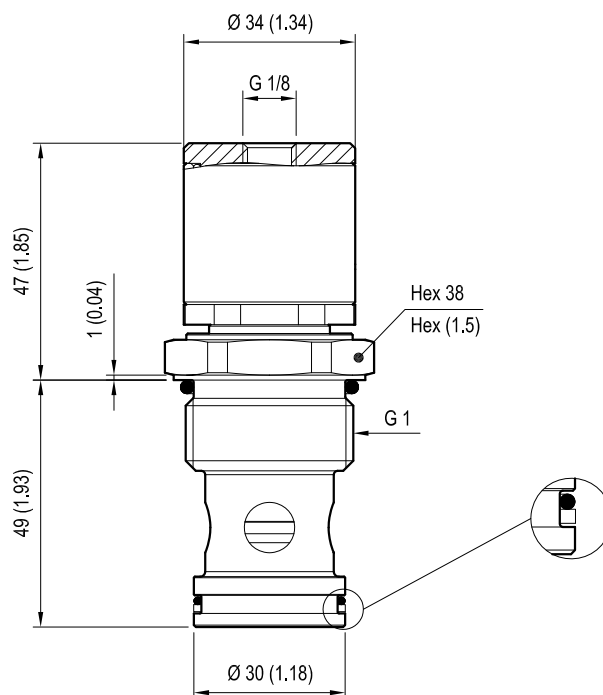
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	150 (39)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	80-100 (59-74)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		021-E see RE 18325-75
Seal kit - version 06	code material no.	RG21E201052010 R934003566
Seal kit - version 32	code material no.	RG21E201053010 R934003567
Other technical data		See data sheet RE 18350-50

IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure.
(version 06)

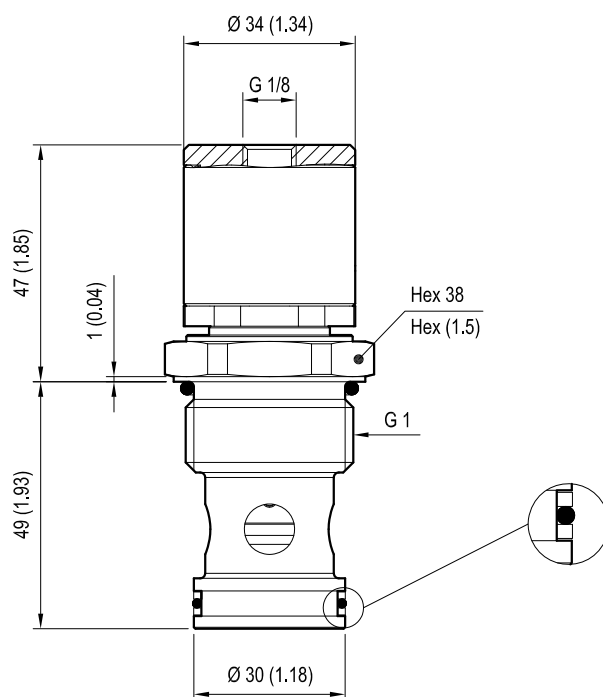
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Dimensions

Version 06: Directional control valves pneumatic operated poppet 2-way normally open - Special cavity



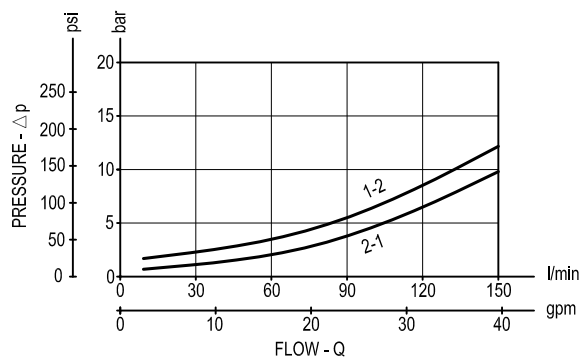
Version 32: Directional control valves pneumatic operated poppet 2-way double lock normally open - Special cavity



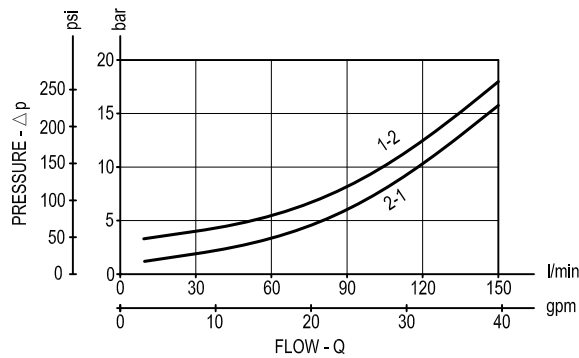
mm (Inches)

Performance graphs

Version 06



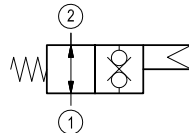
Version 32



OD.65	*	21	14	00
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The diagram shows a horizontal slider block on a vertical guide. A spring is attached to the left side of the slider. A lever arm is attached to the right side of the slider, pivoted at its base. The lever arm has a vertical section and a horizontal section. A weight is attached to the end of the horizontal section. The vertical section of the lever arm is labeled with a '2' at the top and a '1' at the bottom, indicating a vertical displacement or force.

= 06


$$= 32$$

Special cavity: 021-E

[illegible][illegible]

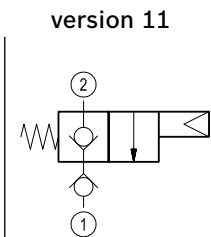
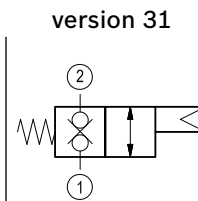
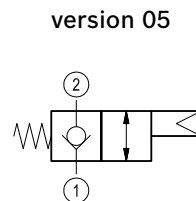
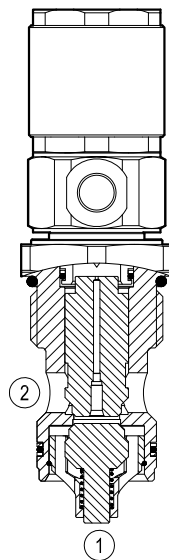
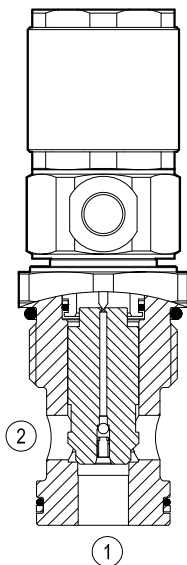
Directional control valves pneumatic operated poppet 2-way normally closed

Special cavity, 021-E



VPI-8A-2A-12-NC

OD.65 - X - 21.14.00



General

Weight	kg (lbs)	0.5 (1.1)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

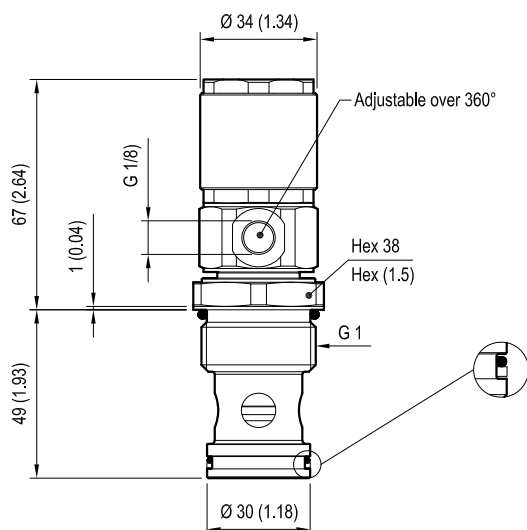
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	150 (39)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	80-100 (59-74)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		021-E see RE 18325-75
Seal kit - version 05-11	code material no.	RG21E201052010 R934003566
Seal kit - version 31	code material no.	RG21E201053010 R934003567
Other technical data		See data sheet RE 18350-50

IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure.
(version 05)

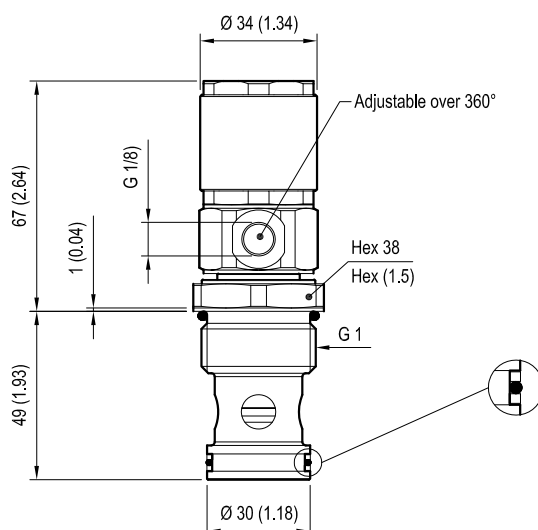
Pilot pressure	bar (psi)	Max. 15 (218)
	bar (psi)	Min. 4 (58)

Dimensions

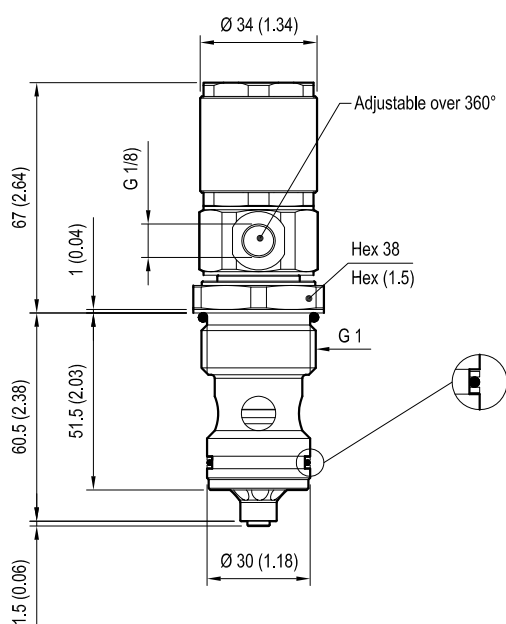
Version 05: Directional control valves pneumatic operated poppet 2-way normally closed - Special cavity



Version 31: Directional control valves pneumatic operated poppet 2-way double lock normally closed - Special cavity



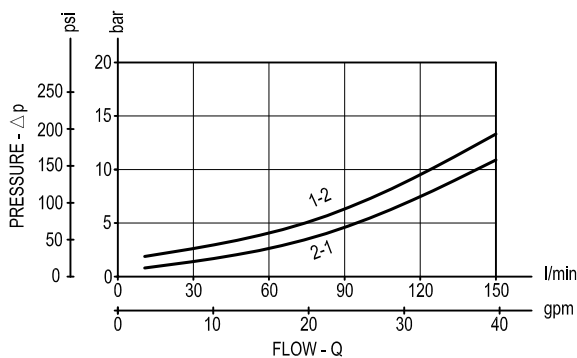
Version 11: Directional control valves pneumatic operated poppet 2-way normally closed - Special cavity



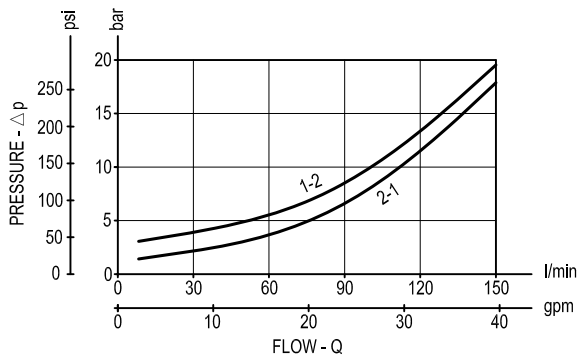
mm (Inches)

Performance graphs

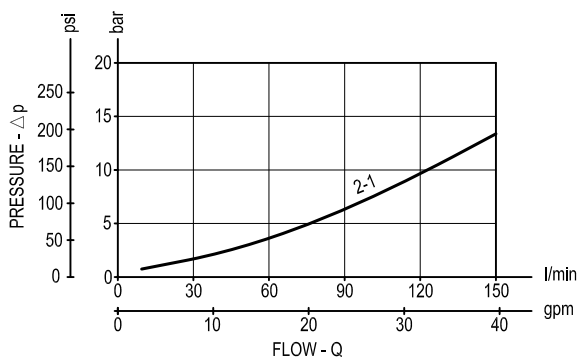
Version 05



Version 31



Version 11



Ordering code

OD.65

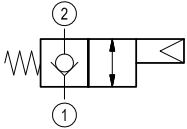
*

21

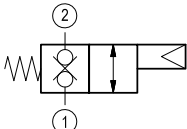
14

00

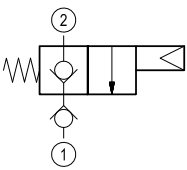
Directional control valves
pneumatic operated
poppet 2-way normally
closed



= 05



= 31



= 11

Special cavity: 021-E

Type	Material number
OD650521140000	R901166202
OD653121140000	R934001459
OD651121140000	R934001456

Type	Material number

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cartridges@oilcontrol.com
www.boschrexroth.com

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Subject to change.

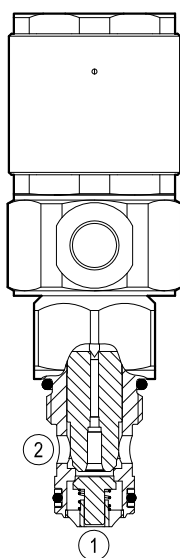
Directional control valves hydraulic operated poppet 2-way normally closed

Special cavity, 019-E

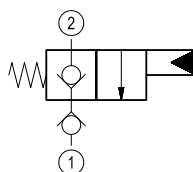


VOI-8A-2A-06-NC-VU

OD.75.11.19 - Y - 00



version 11



General

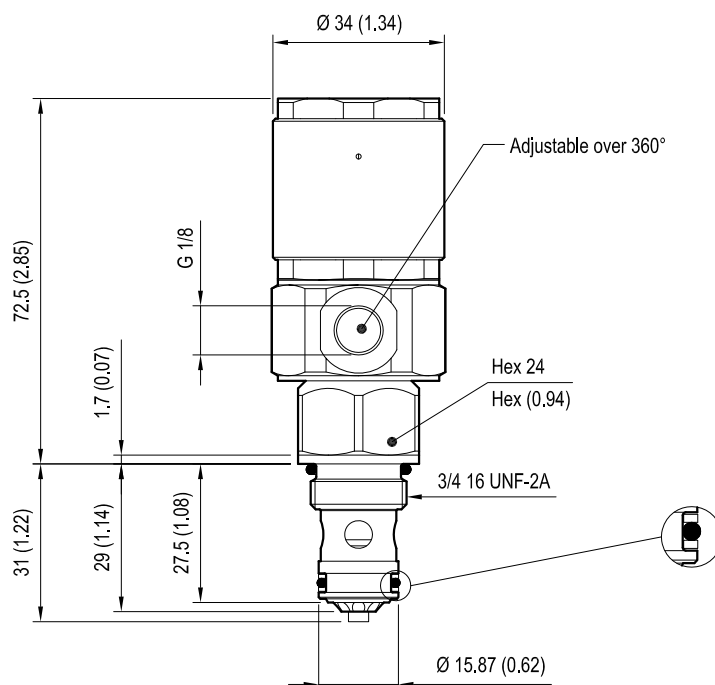
Weight	kg (lbs)	0.27 (0.58)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. 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
Special cavity		019-E see RE 18325-75
Seal kit	code material no.	RG19E201053010 R934003561
Other technical data		See data sheet RE 18350-50

Dimensions

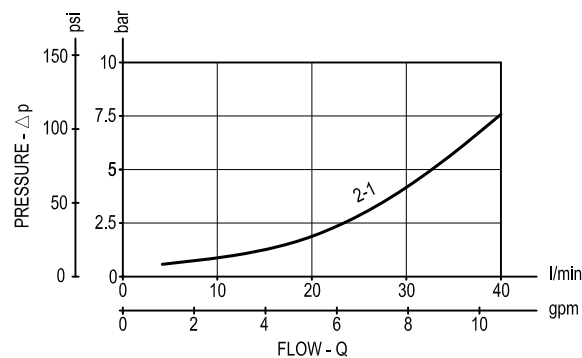
Directional control valves hydraulic operated poppet 2-way normally closed - Special cavity



mm (Inches)

Performance graphs

Version 11



Ordering code

OD.75

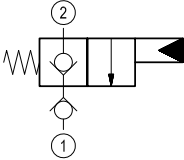
11

19

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00

Directional control valves
hydraulic operated poppet
2-way normally closed



Pilot pressure		
	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Special cavity: 019-E

Type	Material number
OD751119340000	R934003674

Type	Material number

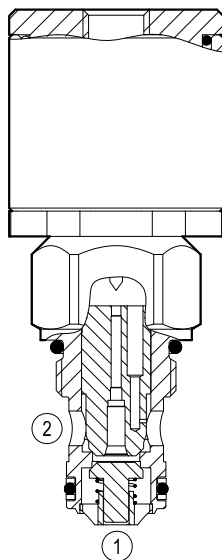
Directional control valves hydraulic operated poppet 2-way normally open

Special cavity, 019-E

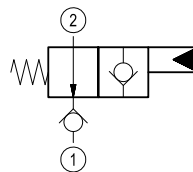


VOI-8A-2A-06-NA-VU

OD.75.12.19 - Y - 00



version 12



General

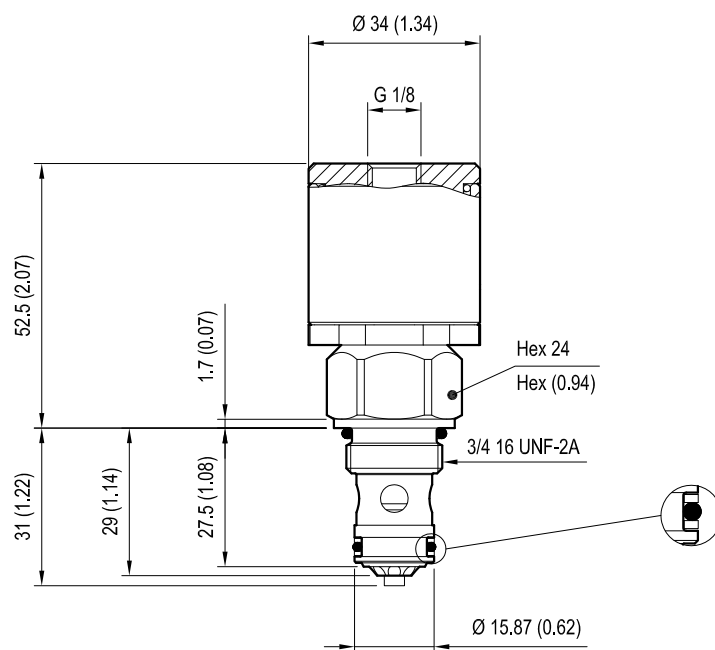
Weight	kg (lbs)	0.25 (0.55)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. 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
Special cavity		019-E see RE 18325-75
Seal kit	code material no.	RG19E201052010 R934003560
Other technical data		See data sheet RE 18350-50

Dimensions

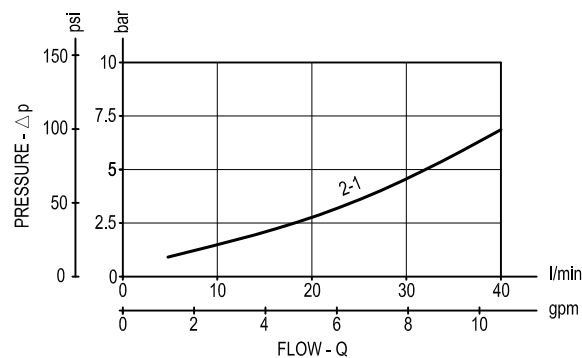
Directional control valves hydraulic operated poppet 2-way normally open - Special cavity



mm (Inches)

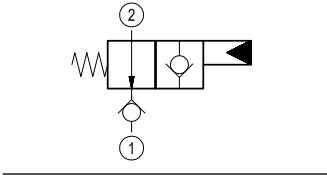
Performance graphs

Version 12



Ordering code

Directional control valves
hydraulic operated poppet
2-way normally open



OD.75	12	19	*	00
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Pilot pressure		
	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Special cavity: 019-E

Type	Material number
OD751219340000	R934003675

Type	Material number

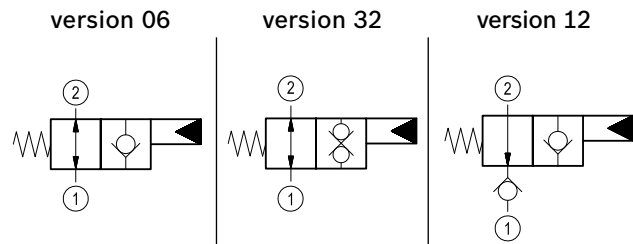
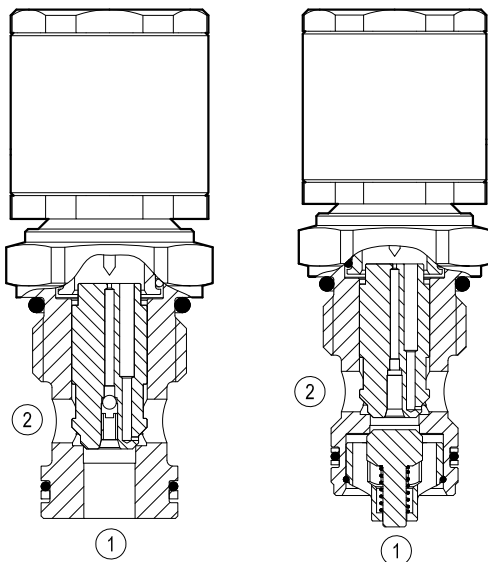
Directional control valves hydraulic operated poppet 2-way normally open

Special cavity, 017-E



VOI-8A-2A-09-NA

OD.75 - X - 17 - Y - 00



General

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

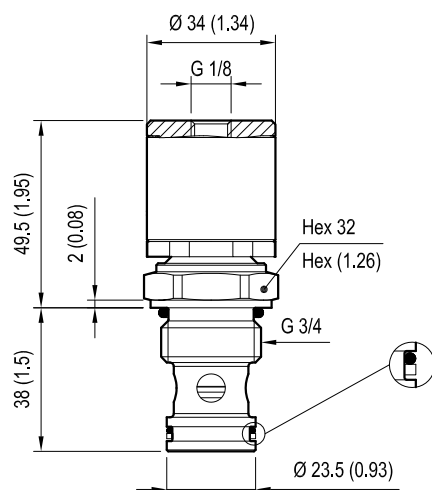
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure.
(version 06)

Hydraulic

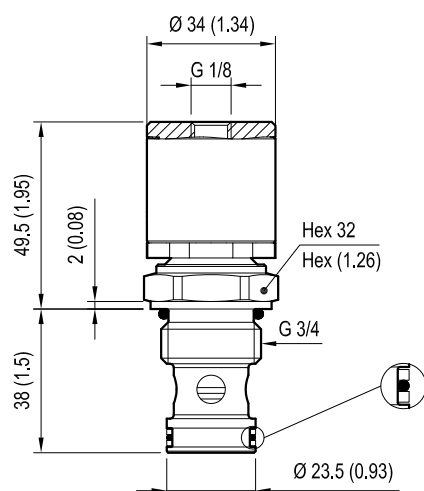
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	70 (19)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	54-66 (40-49)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit - version 06	code material no.	RG17E201052010 R934003562
Seal kit - version 32-12	code material no.	RG17E201053010 R934003563
Other technical data		See data sheet RE 18350-50

Dimensions

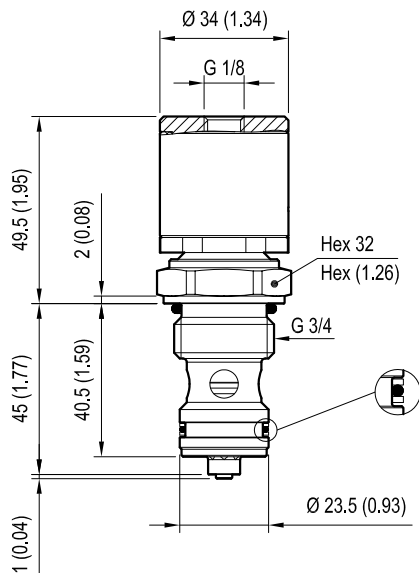
Version 06: Directional control valves hydraulic operated poppet 2-way normally open - Special cavity



Version 32: Directional control valves hydraulic operated poppet 2-way double lock normally open - Special cavity



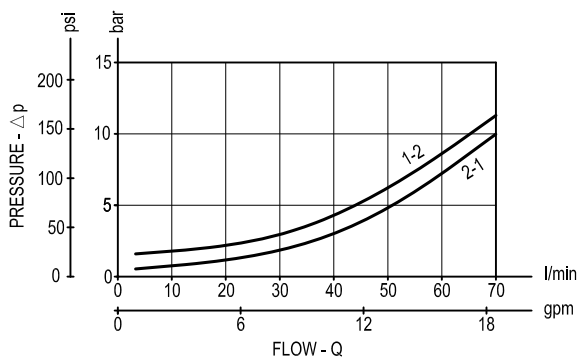
Version 12: Directional control valves hydraulic operated poppet 2-way normally open - Special cavity



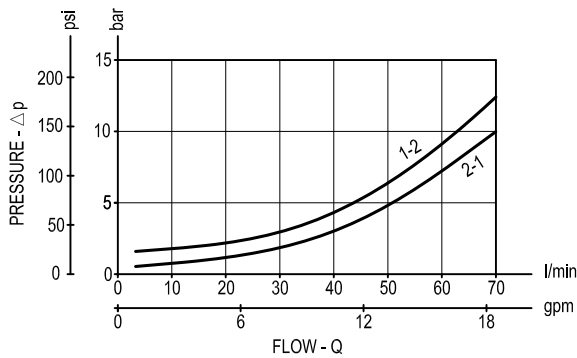
mm (Inches)

Performance graphs

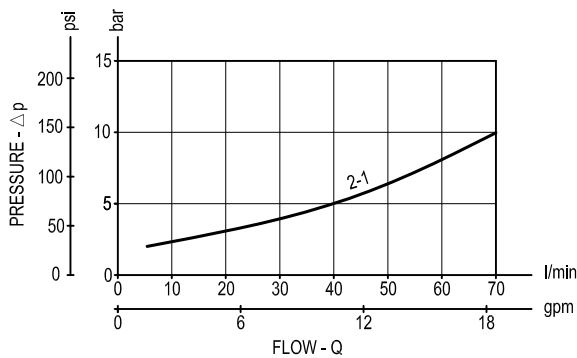
Version 06



Version 32



Version 12



Ordering code

OD.75

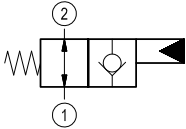
*

17

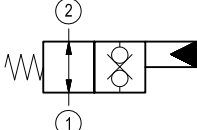
*

00

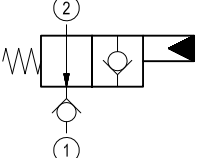
Directional control valves
hydraulic operated poppet
2-way normally open



= 06



= 32



= 12

Pilot pressure

	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Special cavity: 017-E

Type	Material number
OD750617140000	R934001472
OD750617340000	R987248645
OD753217140000	R934001488
OD753217340000	R934001490

Type	Material number

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cartridges@oilcontrol.com
www.boschrexroth.com

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Subject to change.

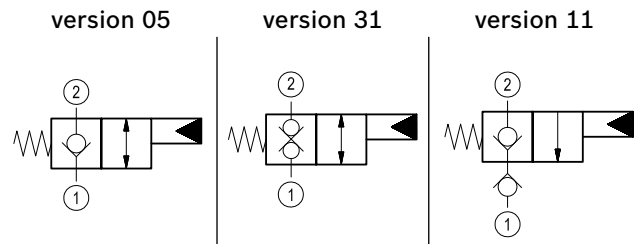
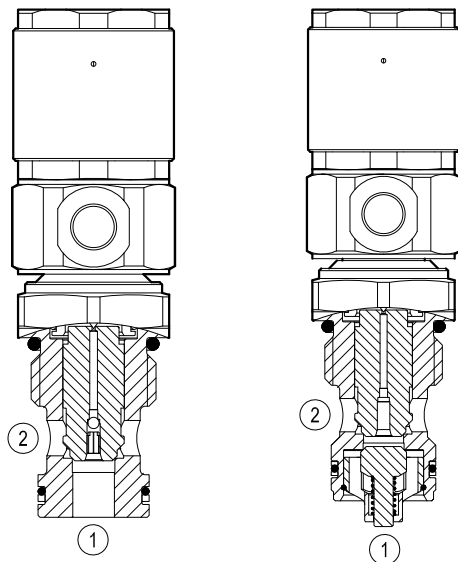
Directional control valves hydraulic operated poppet 2-way normally closed

Special cavity, 017-E



VOI-8A-2A-09-NC

OD.75 - X - 17 - Y - 00



General

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

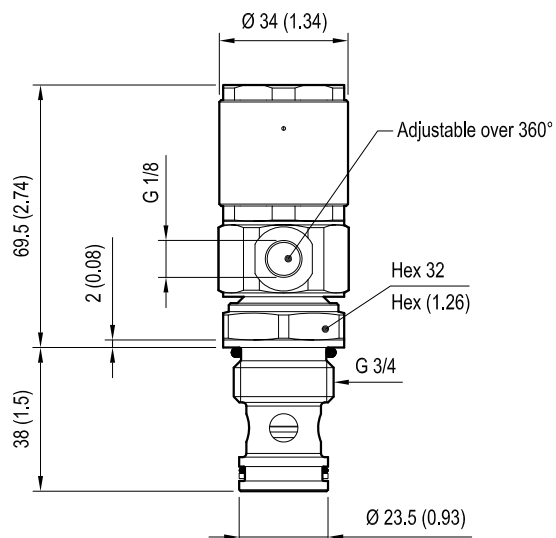
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure.
(version 05)

Hydraulic

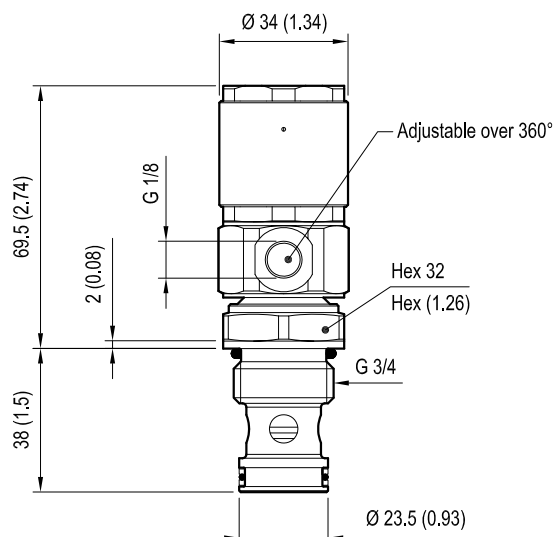
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	70 (19)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	54-66 (40-49)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit - version 05-11	code material no.	RG17E201052010 R934003562
Seal kit - version 31	code material no.	RG17E201053010 R934003563
Other technical data		See data sheet RE 18350-50

Dimensions

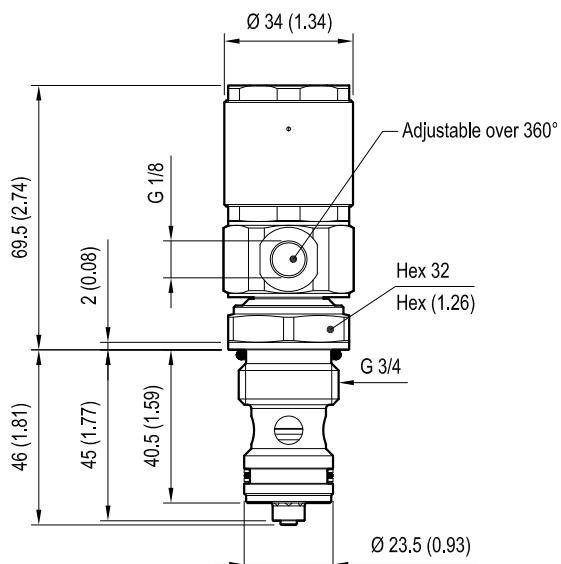
Version 05: Directional control valves hydraulic operated poppet 2-way normally closed - Special cavity



Version 31: Directional control valves hydraulic operated poppet 2-way double lock normally closed - Special cavity



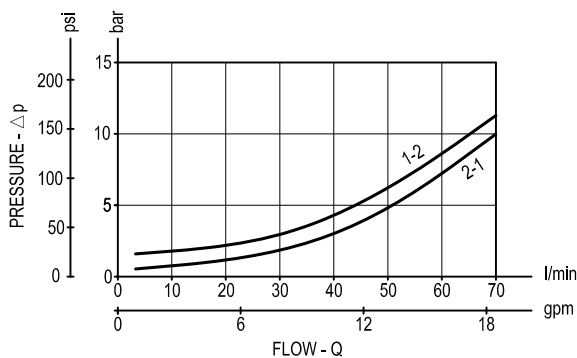
Version 11: Directional control valves hydraulic operated poppet 2-way normally closed - Special cavity



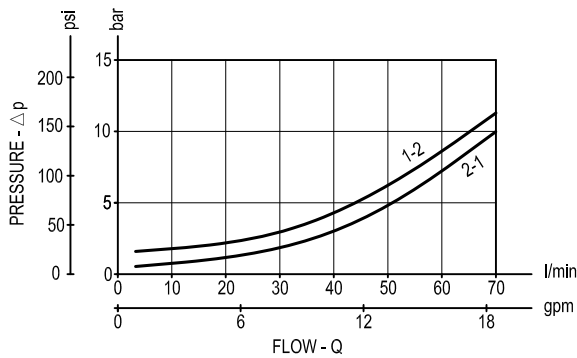
mm (Inches)

Performance graphs

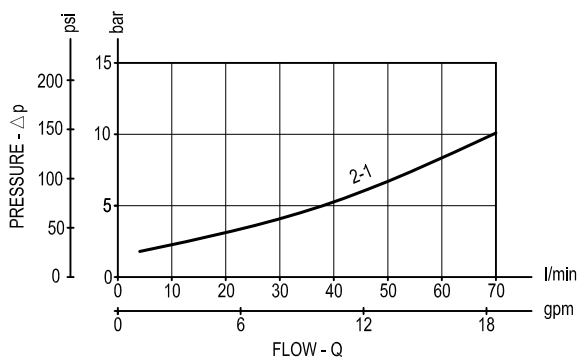
Version 05



Version 31



Version 11



Ordering code

OD.75

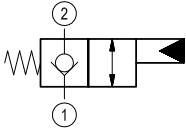
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17

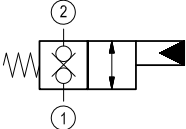
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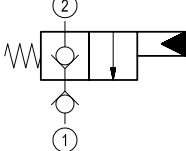
Directional control valves
hydraulic operated poppet
2-way normally closed



= 05



= 11



= 31

Pilot pressure

	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Special cavity:
017-E

Type	Material number
OD750517140000	R934001466
OD750517340000	R934001467
OD753117140000	R934001482
OD753117340000	R987072045
OD751117340000	R934001478

Type	Material number

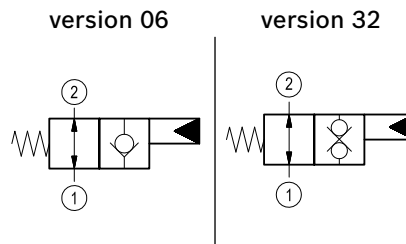
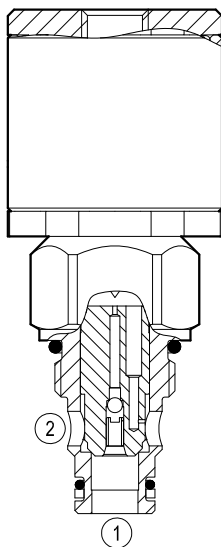
Directional control valves hydraulic operated poppet 2-way normally open

Common cavity, Size 08



VOI-8A-2A-06-NA

OD.75 - X - 18 - Y - 00



General

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

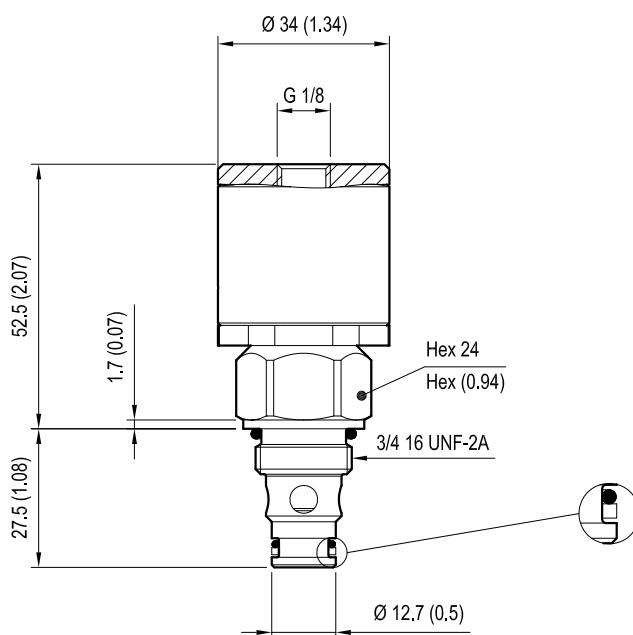
Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. 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 mm²/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 - version 06	code material no.	RG08A2010520100 R901101437
Seal kit - version 32	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

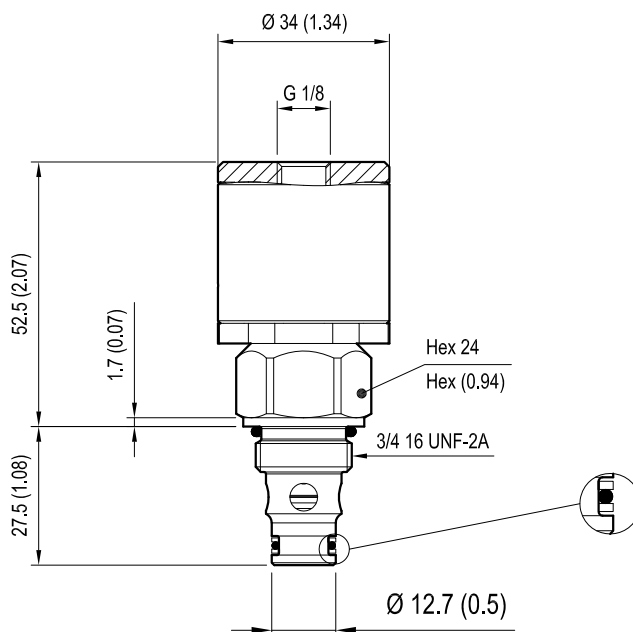
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 06)

Dimensions

Version 06: Directional control valves hydraulic operated poppet 2-way normally open



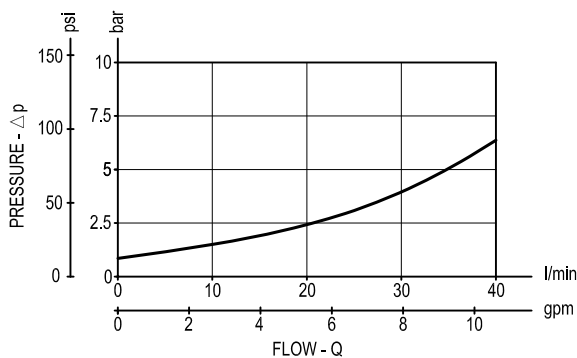
Version 32: Directional control valves hydraulic operated poppet 2-way double lock normally open



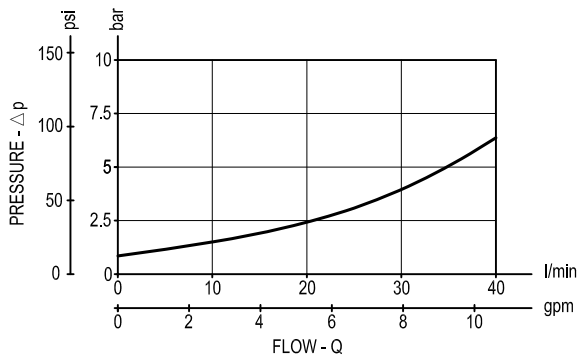
mm (Inches)

Performance graphs

Version 06



Version 32



Ordering code

OD.75

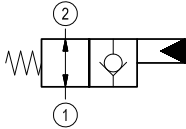
*

18

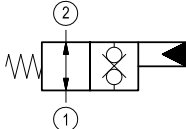
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Directional control valves
hydraulic operated poppet
2-way normally open



= 06



= 32

Pilot pressure

	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Common cavity: CA-08A-2N

Type	Material number	Type	Material number
OD750618140000	R901109474		
OD750618340000	R901109475		
OD753218340000	R901109478		

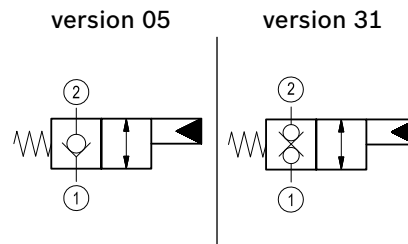
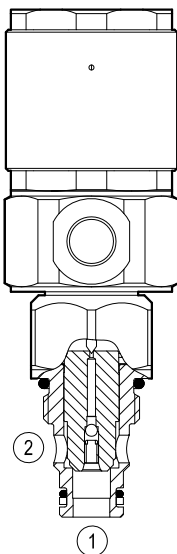
Directional control valves hydraulic operated poppet 2-way normally closed

Common cavity, Size 08



VOI-8A-2A-06-NC

OD.75 - X - 18 - Y - 00



General

Weight	kg (lbs)	0.27 (0.58)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

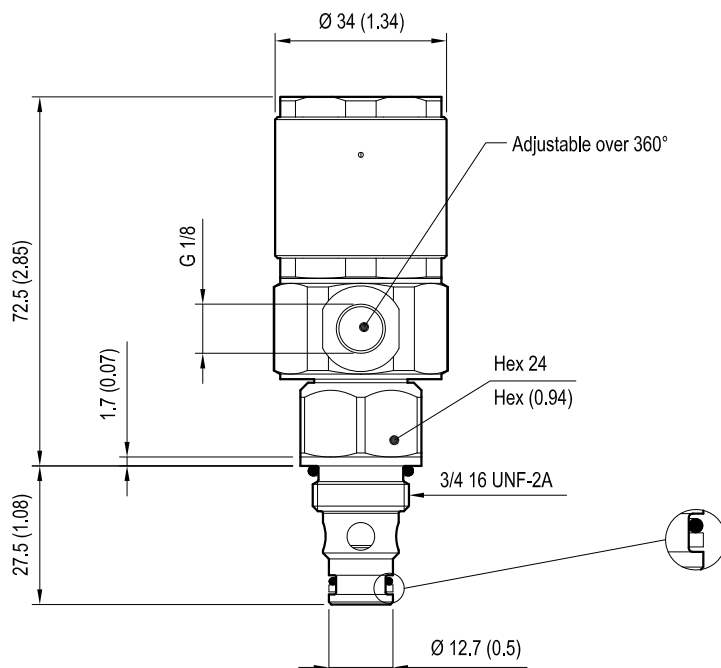
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 05)

Hydraulic

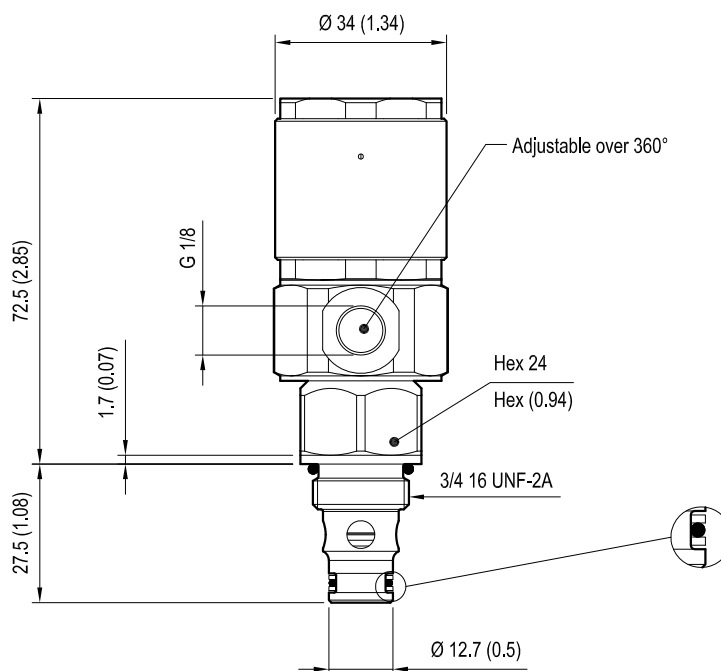
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit - version 05	code material no.	RG08A20110520100 R901101437
Seal kit - version 31	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

Dimensions

Version 05: Directional control valves hydraulic operated poppet 2-way normally closed



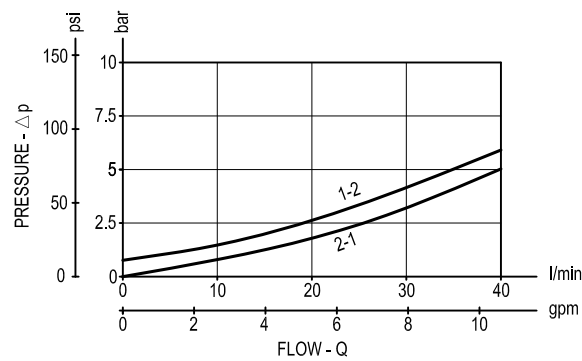
Version 31: Directional control valves hydraulic operated poppet 2-way double lock normally closed



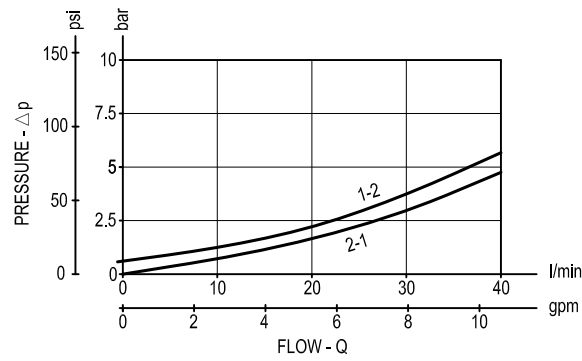
mm (Inches)

Performance graphs

Version 05



Version 31



Ordering code

OD.75

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18

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00

Directional control valves
hydraulic operated poppet
2-way normally closed

= 05

= 31

Pilot pressure

	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Common cavity: CA-08A-2N

Type	Material number
OD750518140000	R901109467
OD750518340000	R901109471
OD753118140000	R901109472
OD753118340000	R901109473

Type	Material number

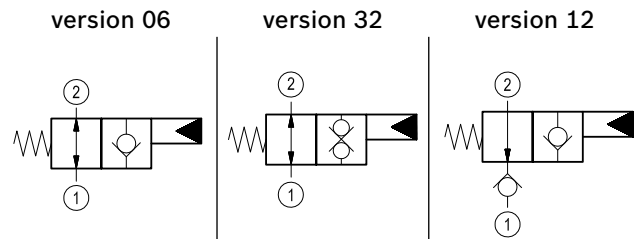
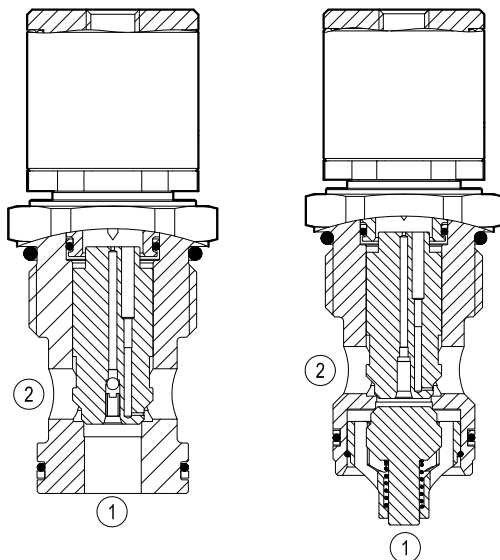
Directional control valves hydraulic operated poppet 2-way normally open

Special cavity, 021-E



VOI-8A-2A-12-NA

OD.75 -X - 21 - Y - 00



General

Weight	kg (lbs)	0.48 (1.1)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

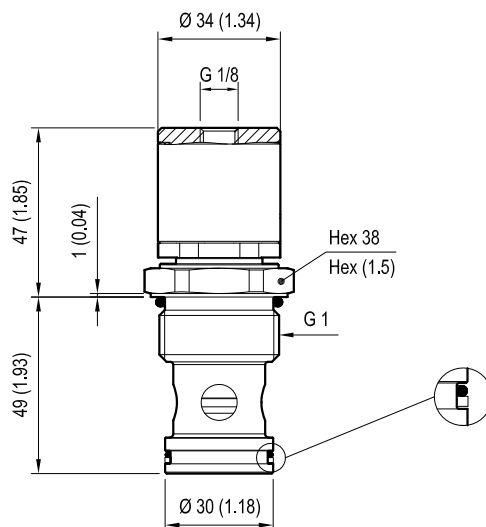
Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	150 (39)
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)	80-100 (59-74)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		021-E see RE 18325-75
Seal kit - version 06-12	code material no.	RG21E201052010 R934003566
Seal kit - version 32	code material no.	RG21E201053010 R934003567
Other technical data		See data sheet RE 18350-50

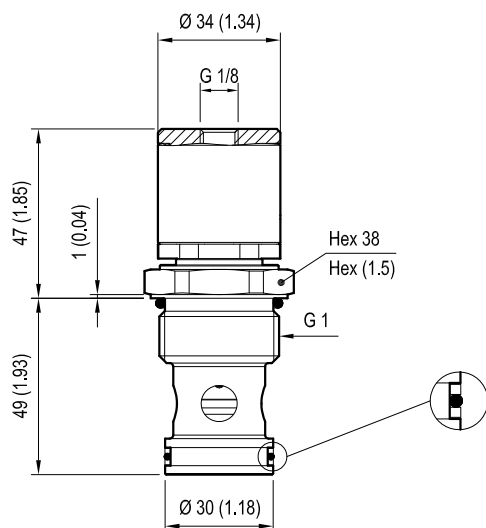
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 06)

Dimensions

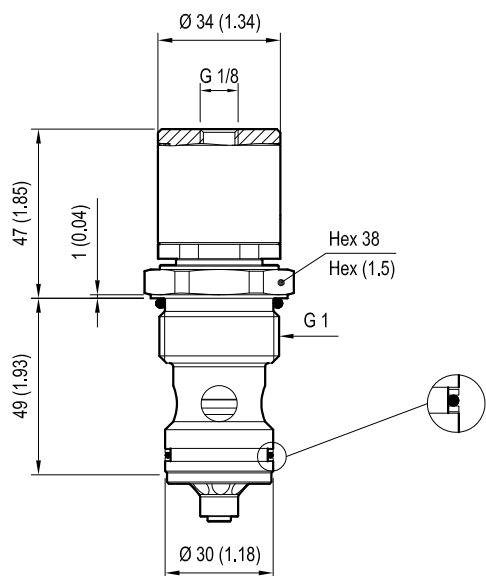
Version 06: Directional control valves hydraulic operated poppet 2-way normally open - Special Cavity



Version 32: Directional control valves hydraulic operated poppet 2-way double lock normally open - Special Cavity



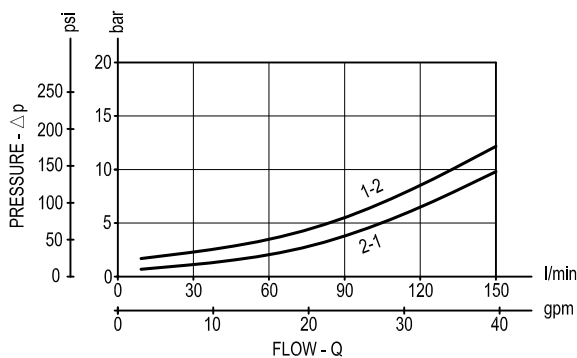
Version 12: Directional control valves hydraulic operated poppet 2-way normally open - Special cavity



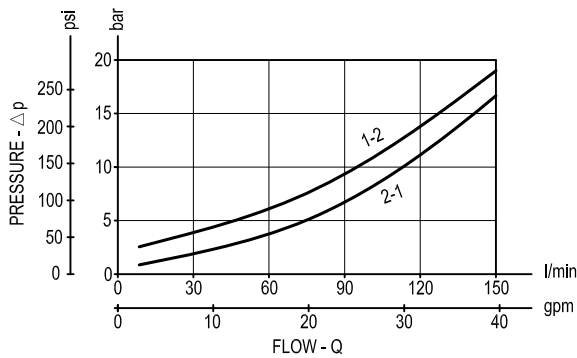
mm (Inches)

Performance graphs

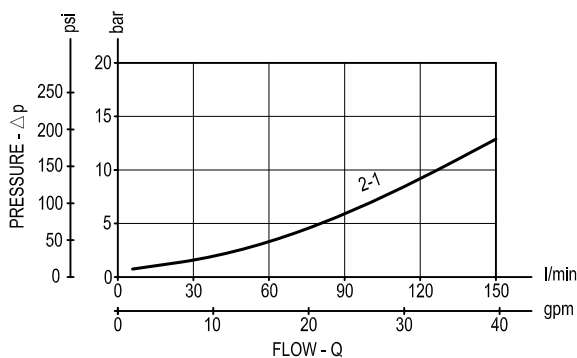
Version 06



Version 32



Version 12



Ordering code

OD.75

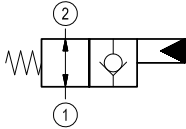
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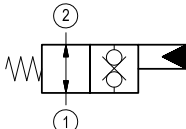
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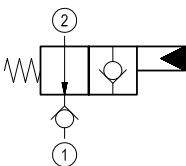
Directional control valves
hydraulic operated poppet
2-way normally open



= 06



= 32



= 12

Pilot pressure

	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Special cavity: 021-E

Type	Material number
OD750621140000	R934001476
OD750621340000	R987246099
OD753221140000	R934001493
OD753221340000	R934001494
OD751221340000	R934001480

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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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.

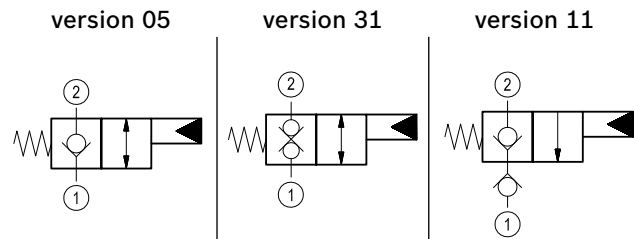
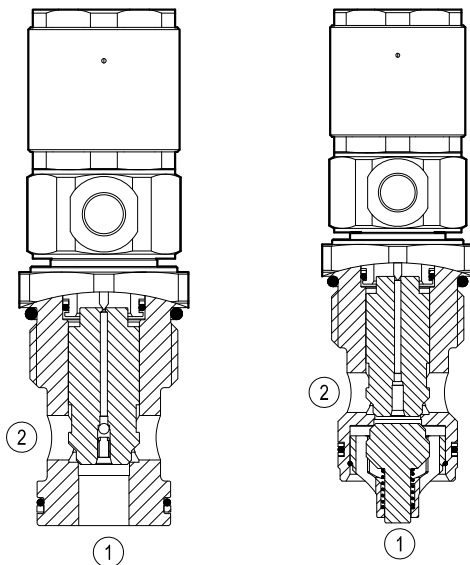
Directional control valves hydraulic operated poppet 2-way normally closed

Special cavity, 021-E



VOI-8A-2A-12-NC

OD.75 - X - 21 - Y - 00



General

Weight	kg (lbs)	0.5 (1.1)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

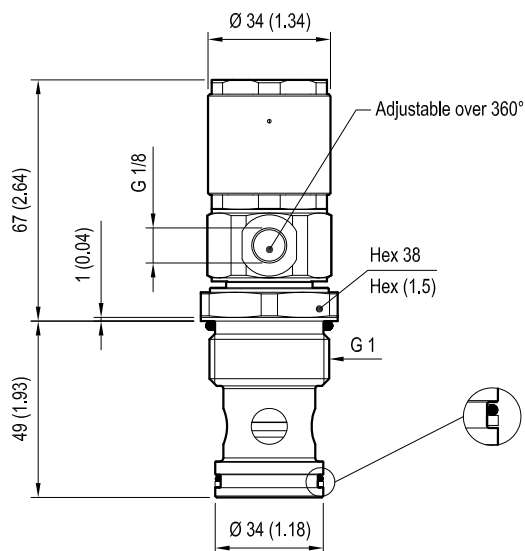
Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	150 (39)
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. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		021-E see RE 18325-75
Seal kit - version 05-11	code material no.	RG21E201052010 R934003566
Seal kit - version 31	code material no.	RG21E201053010 R934003567
Other technical data		See data sheet RE 18350-50

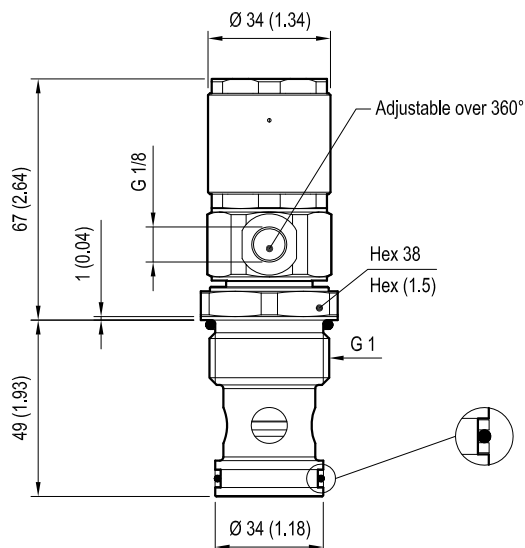
IMPORTANT: When valve is not operated, flow from 1 to 2 is not recommended due to high opening pressure. (version 05)

Dimensions

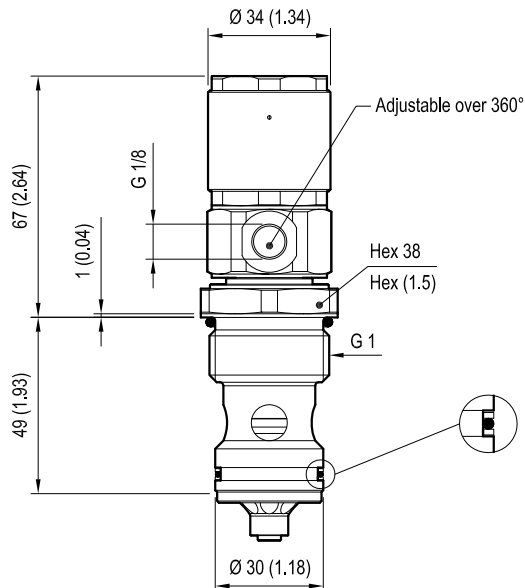
Version 05: Directional control valves hydraulic operated poppet 2-way normally closed - Special cavity



Version 31: Directional control valves hydraulic operated poppet 2-way double lock normally closed - Special cavity



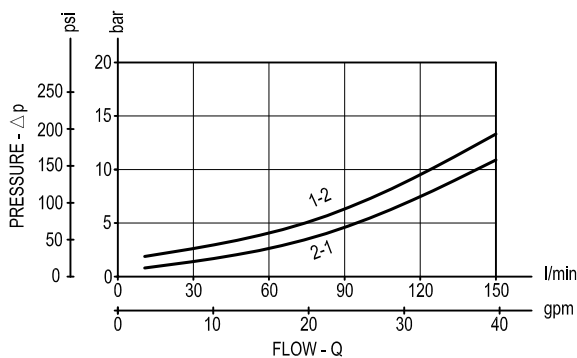
Version 11: Directional control valves hydraulic operated poppet 2-way normally closed - Special cavity



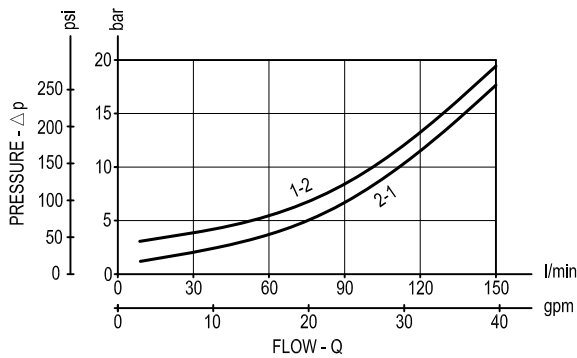
mm (Inches)

Performance graphs

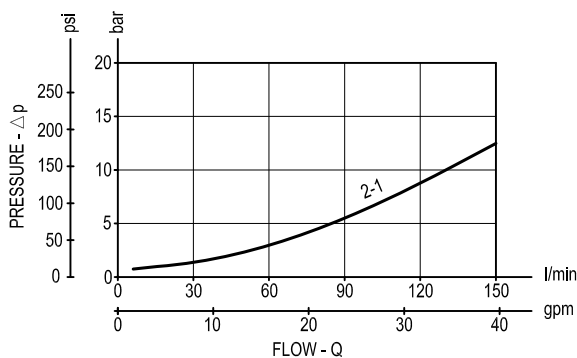
Version 05



Version 31



Version 11



Ordering code

OD.75

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21

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00

Directional control valves
hydraulic operated poppet
2-way normally closed

= 05

= 31

= 11

Pilot pressure

	Min. bar (psi)	Max. bar (psi)
14	2-3 (29-44)	15 (218)
34	15-20 (218-290)	50 (725)

Special cavity:
021-E

Type	Material number
OD750521140000	R934001470
OD750521340000	R987246098
OD753121140000	R934001486
OD753121340000	R934001487
OD751121340000	R934001479

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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cartridges@oilcontrol.com
www.boschrexroth.com

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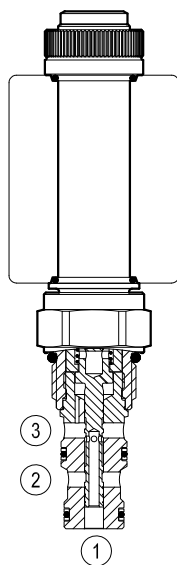
Subject to change.

Proportional valves direct acting pressure reducing

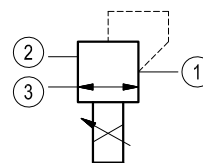
Common cavity, Size 10

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	cm³/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 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 material no.	RG10A3010530100 R930000990
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

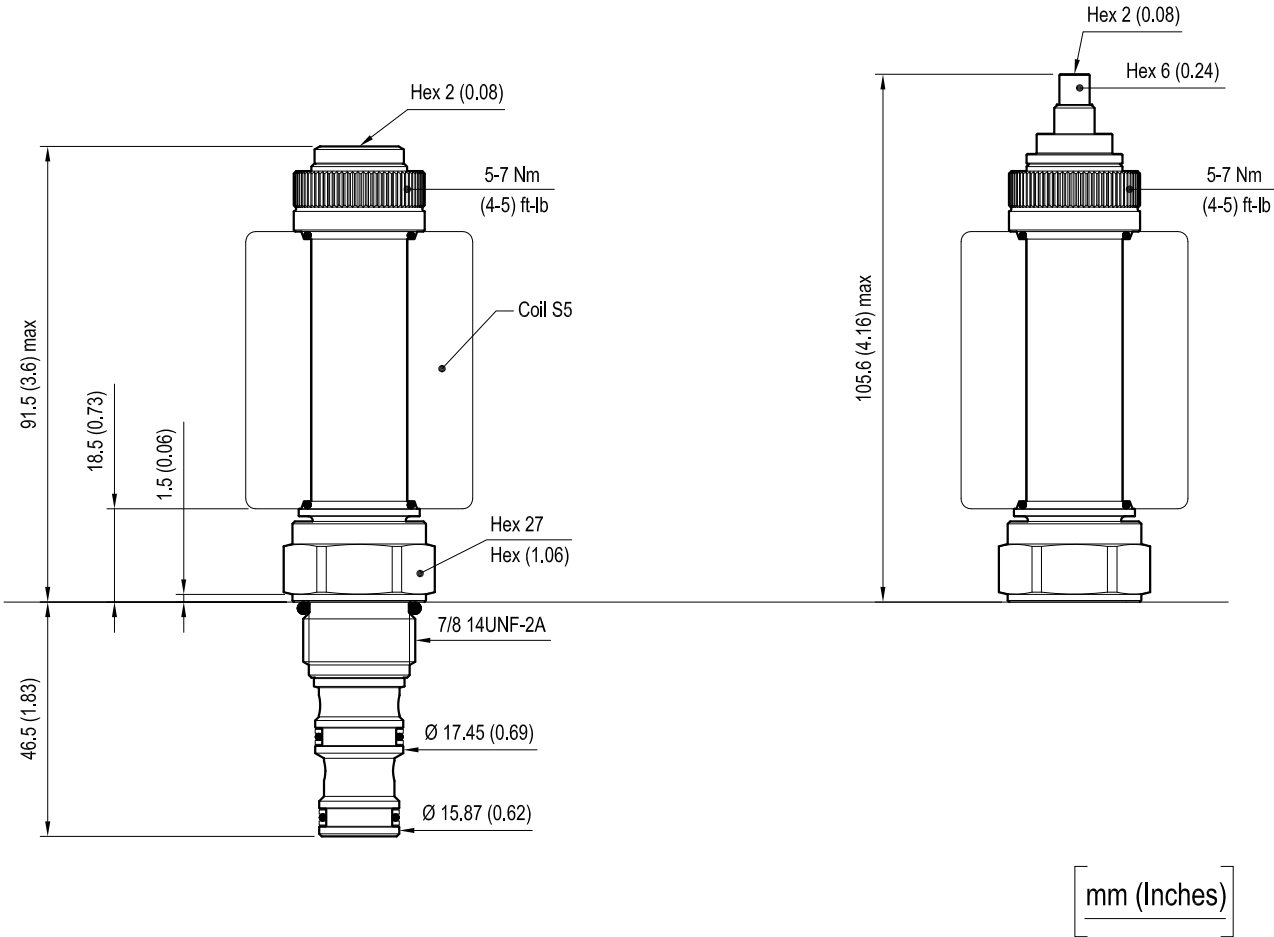
Electrical

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.

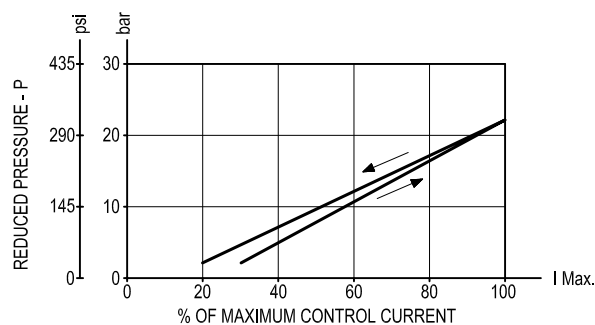
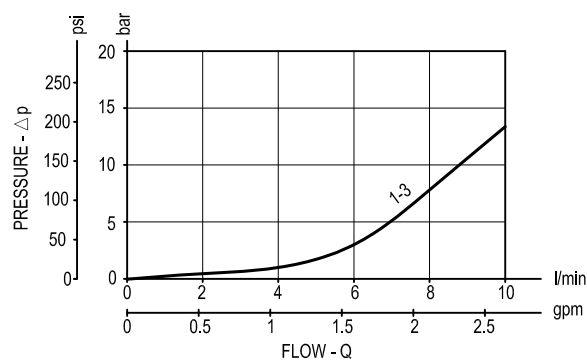
Dimensions

Proportional valves direct acting pressure reducing



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

Performance graphs

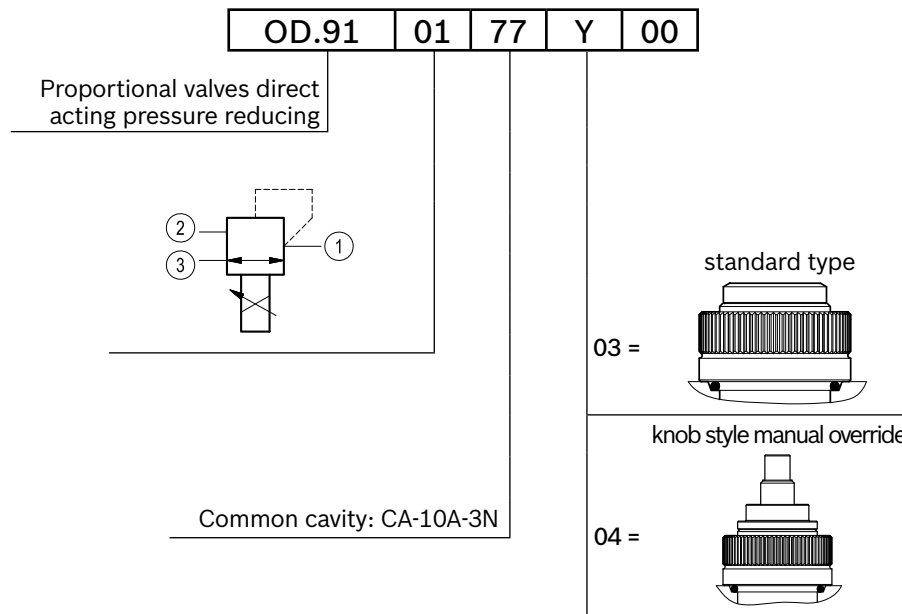


	I	P bar (psi)	Coils
I min:	0.45 A	2 (29)	12 DC
I max:	2.0 A	22 (319)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

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

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

Ordering code

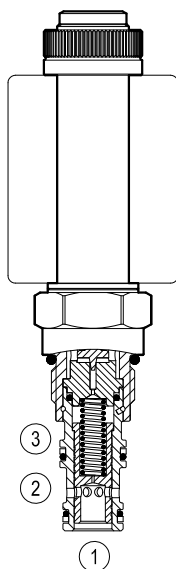
[illegible][illegible]

Proportional valves pilot operated pressure reducing

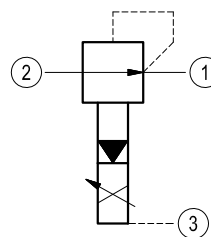
Common cavity, Size 10

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 material no.	RG10A3010520100 R901111369
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

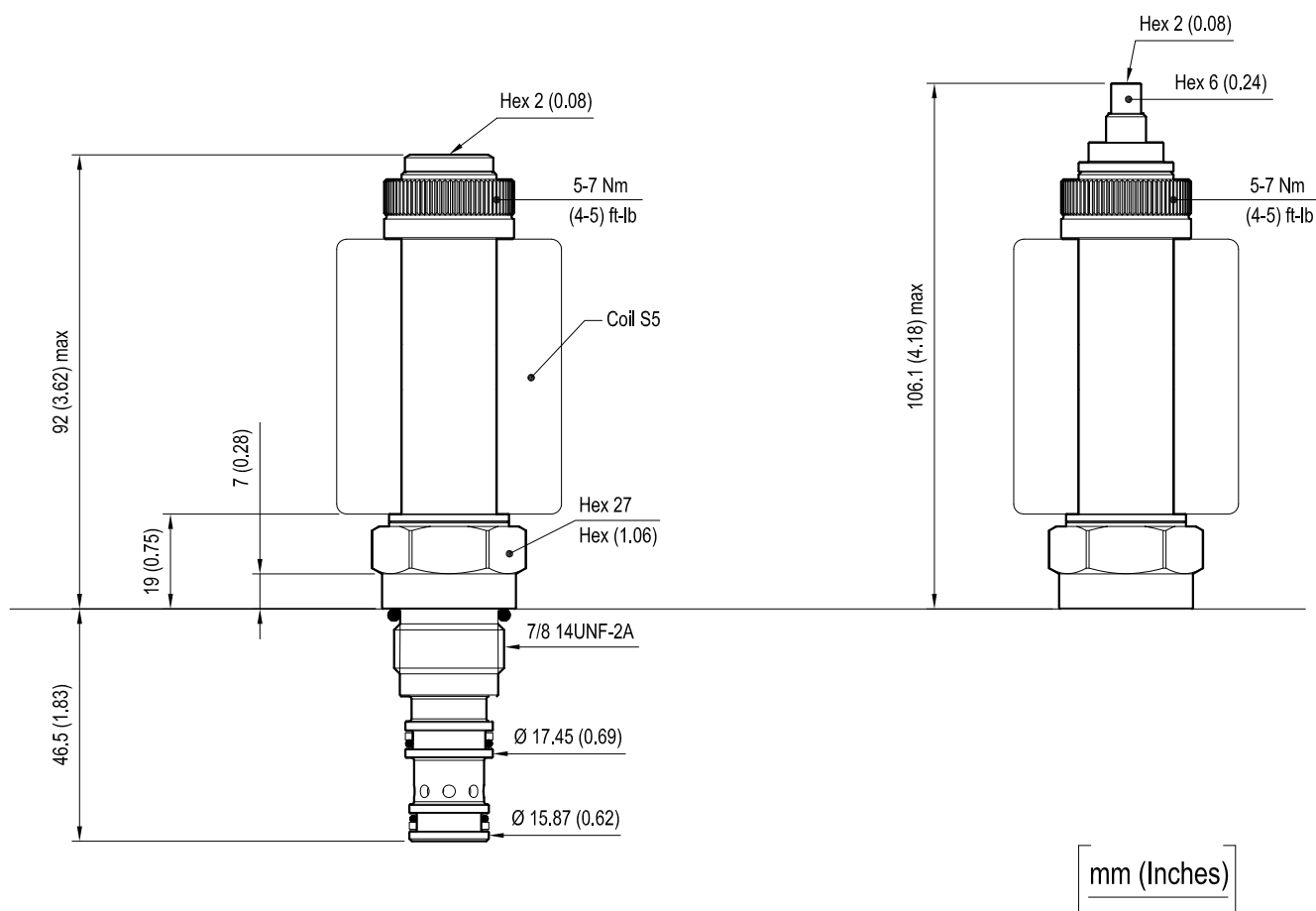
Electrical

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.

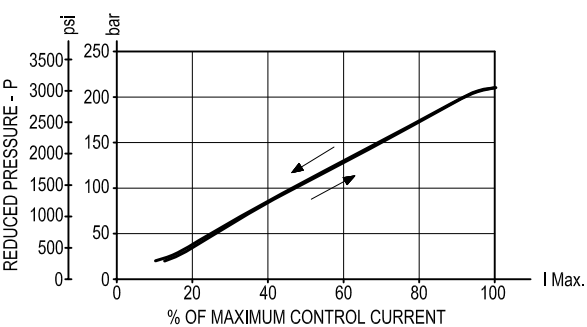
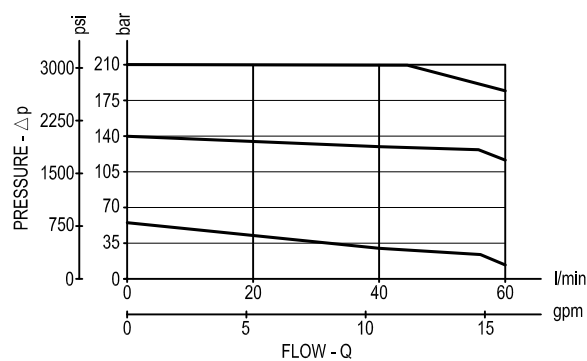
Dimensions

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

OD.91

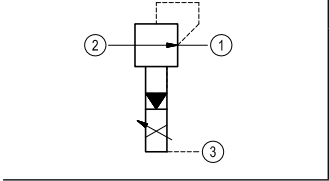
06

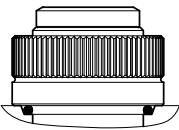
77

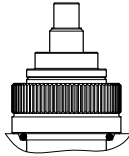
Y

00

Proportional valves pilot
operated pressure reducing



03 = 

04 = 

Common cavity: CA-10A-3N

Type	Material number
OD910677030000	R901118933
OD910677040000	R901126868

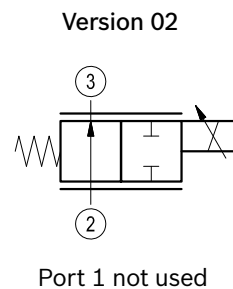
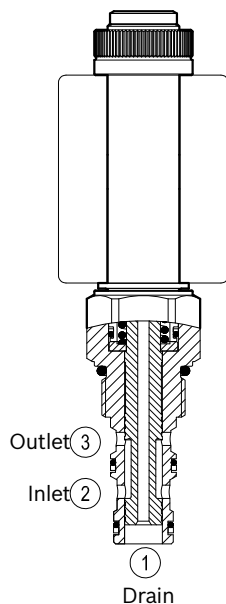
Type	Material number

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 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

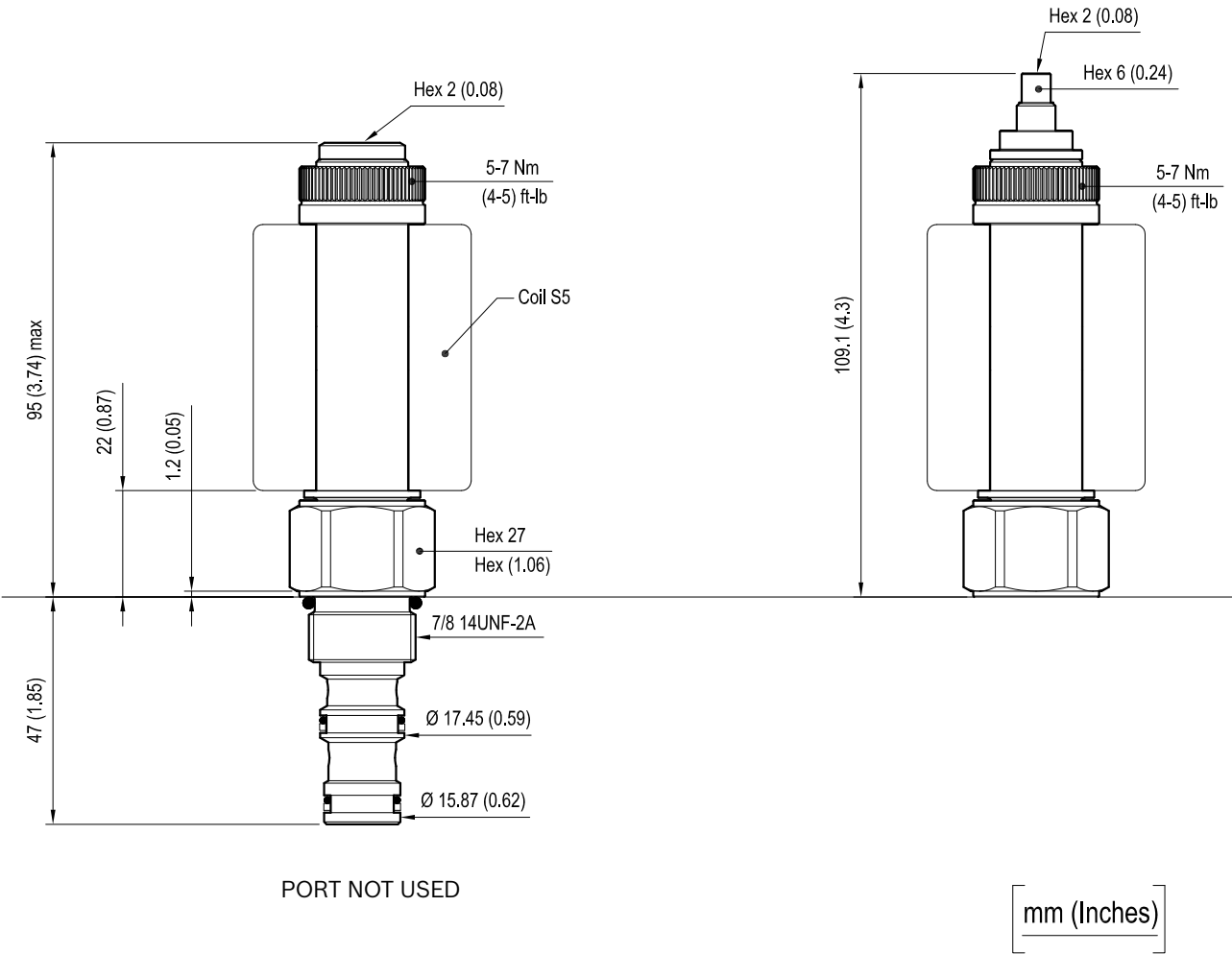
(*) Measured at 210 bar (3000 psi). Oil at 46 cSt.

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

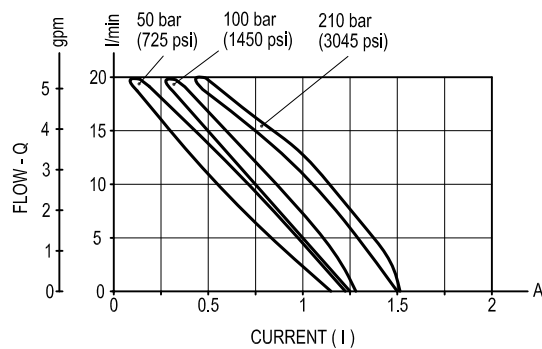
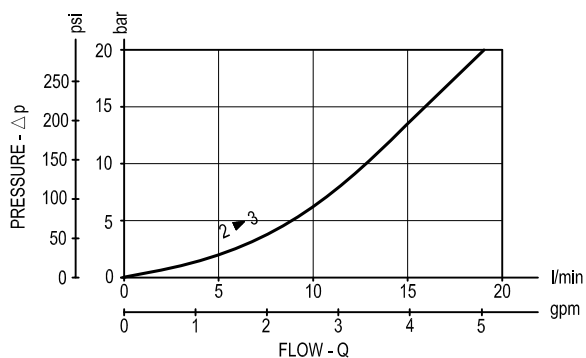
Dimensions

Proportional valves not compensated flow regulator

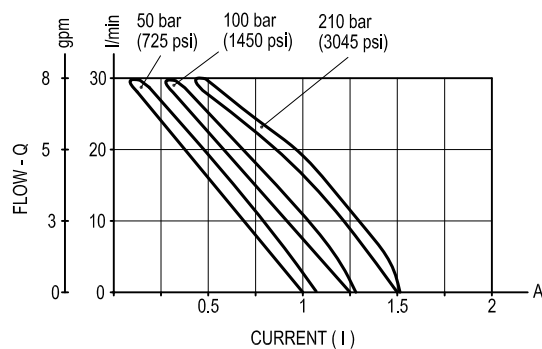
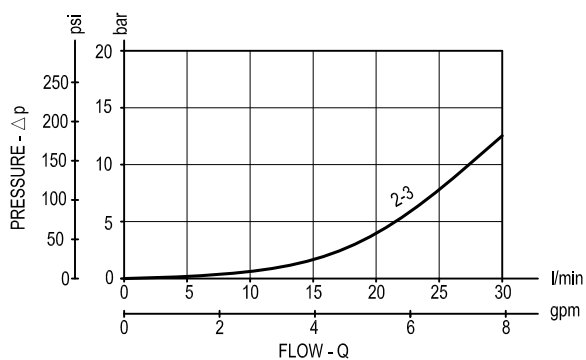


Performance graphs

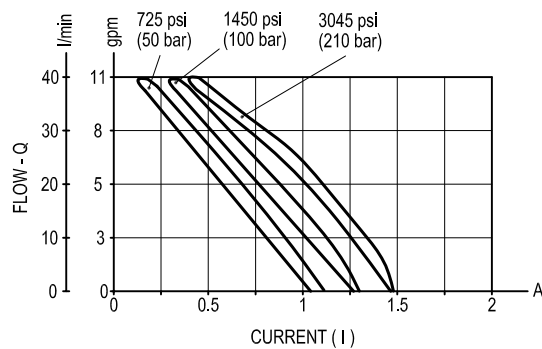
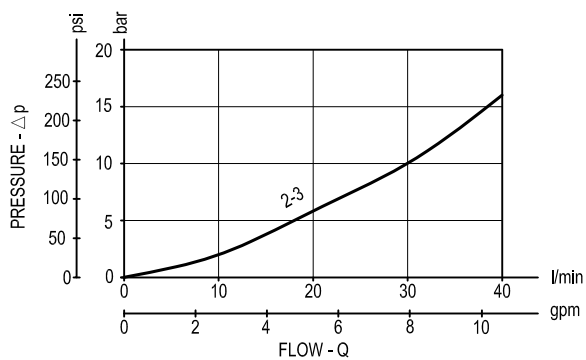
Z= 01



Z= 02



Z= 03



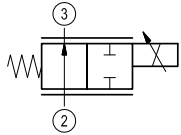
PMW Frequency: 120-150 Hz

Hysteresis: < 5%

Note: It is recommended to use coil 12 DC.

Ordering code

Proportional valves
not compensated flow
regulator

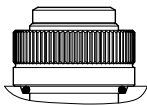


Common cavity: CA-10A-3N

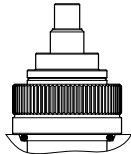
OD.92	02	77	Y	Z
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Operating range			
	Rated flow max l/min (gpm)	I Min. A (±15%)	I Max. A (±15%)
= 01	20 (6)	0.4	1.4
= 02	30 (8)	0.4	1.4
= 03	40 (11)	0.3	1.4

standard type

03 = 

knob style manual override

04 = 

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

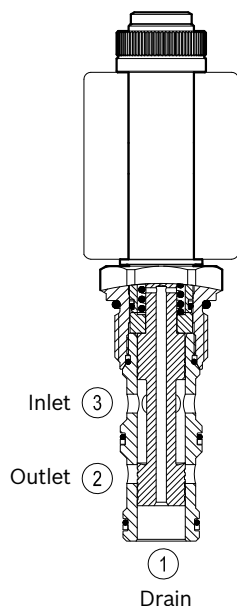
Type	Material number

Proportional valves not compensated flow regulator

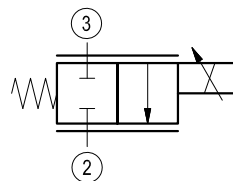
Common cavity, Size 12

VEP-5A-2Q-14

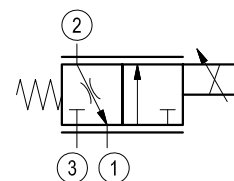
OD.92 - X - 12 - Y - 00



Version 03



Version 05



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 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	81-95 (60-70)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-12A-3N see RE 18325-70
Seal kit	code material no.	RG12A3010520100 R930000941
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

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

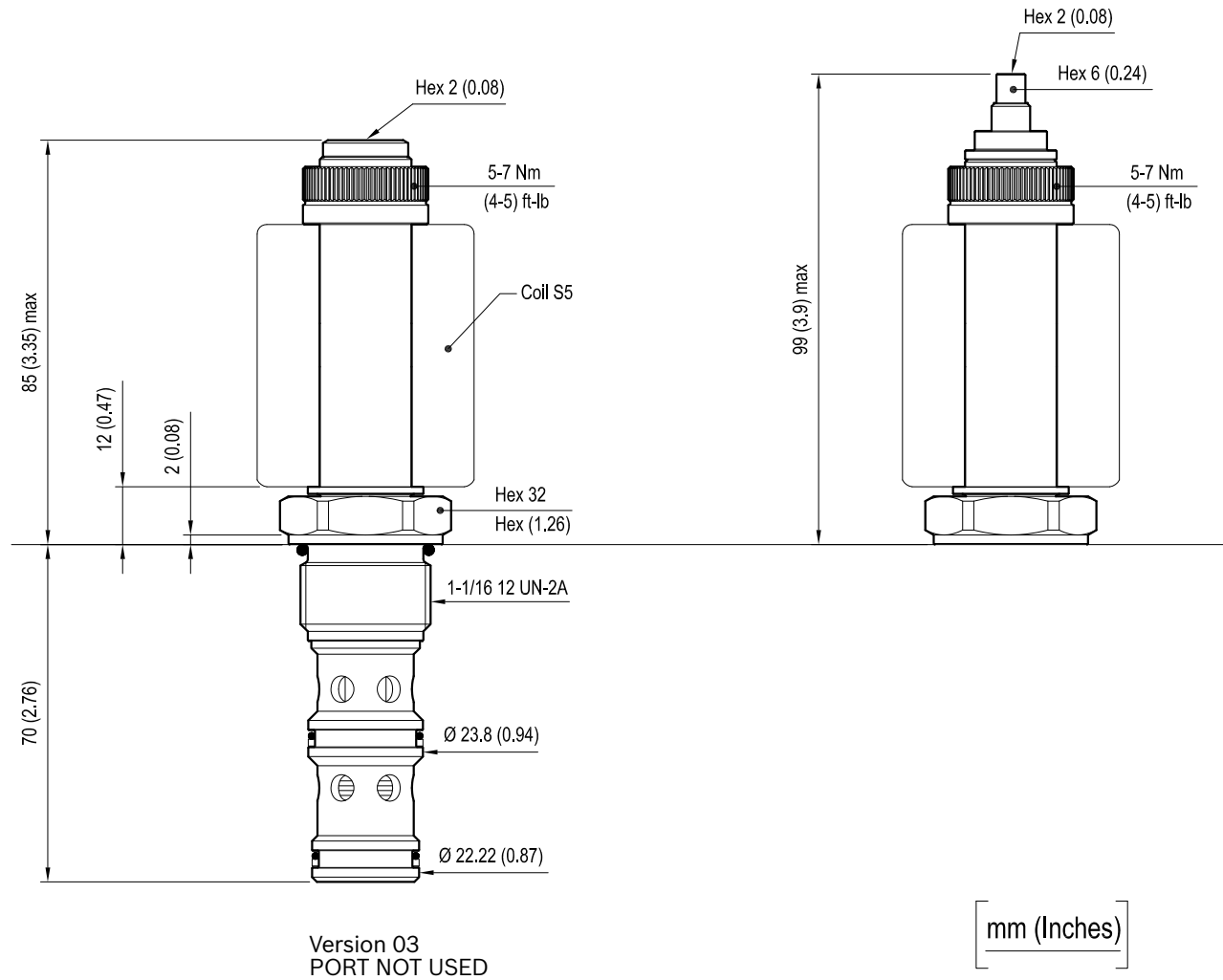
Electrical

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

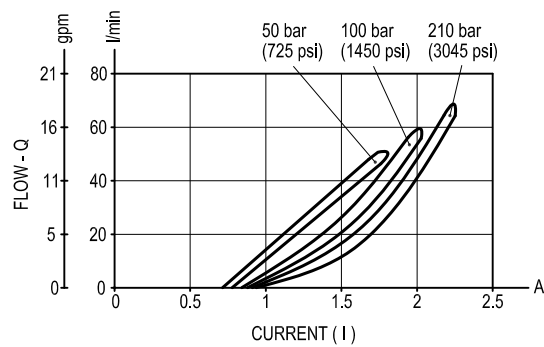
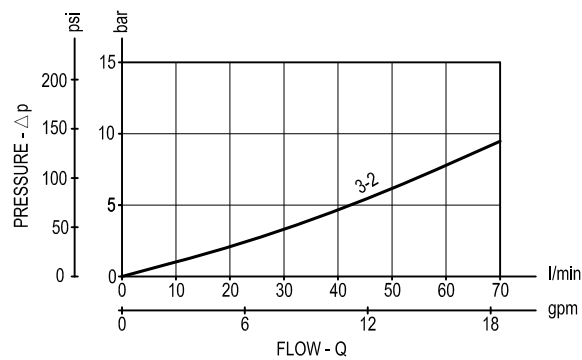
Note: Coils must be ordered separately.

Dimensions

Proportional valves not compensated flow regulator



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

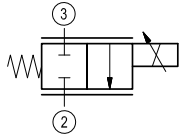
X

12

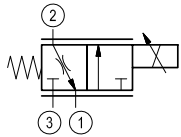
Y

00

Proportional valves
not compensated flow
regulator



= 03



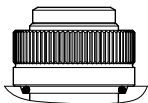
= 05

Common cavity: CA-12A-3N

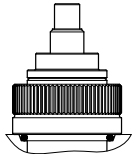
Operating range

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

standard type

03 = 

knob style manual override

04 = 

Type	Material number	Type	Material number
OD920312030000	R934001514		
OD920312040000	R934001515		
OD920512030000	R934001523		
OD920512040000	R934003910		

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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.

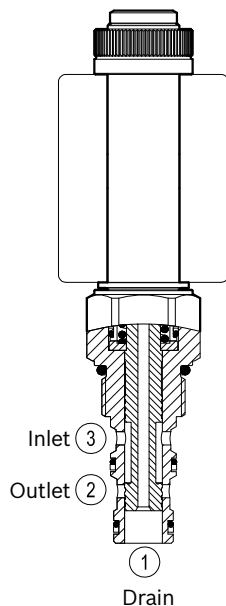
Subject to change.

Proportional valves not compensated flow regulator

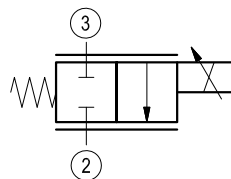
Common cavity, Size 10

VEP-5A-2Q-09

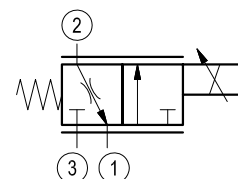
OD.92 - X - 77 - Y - Z



Version 03



Version 05



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.

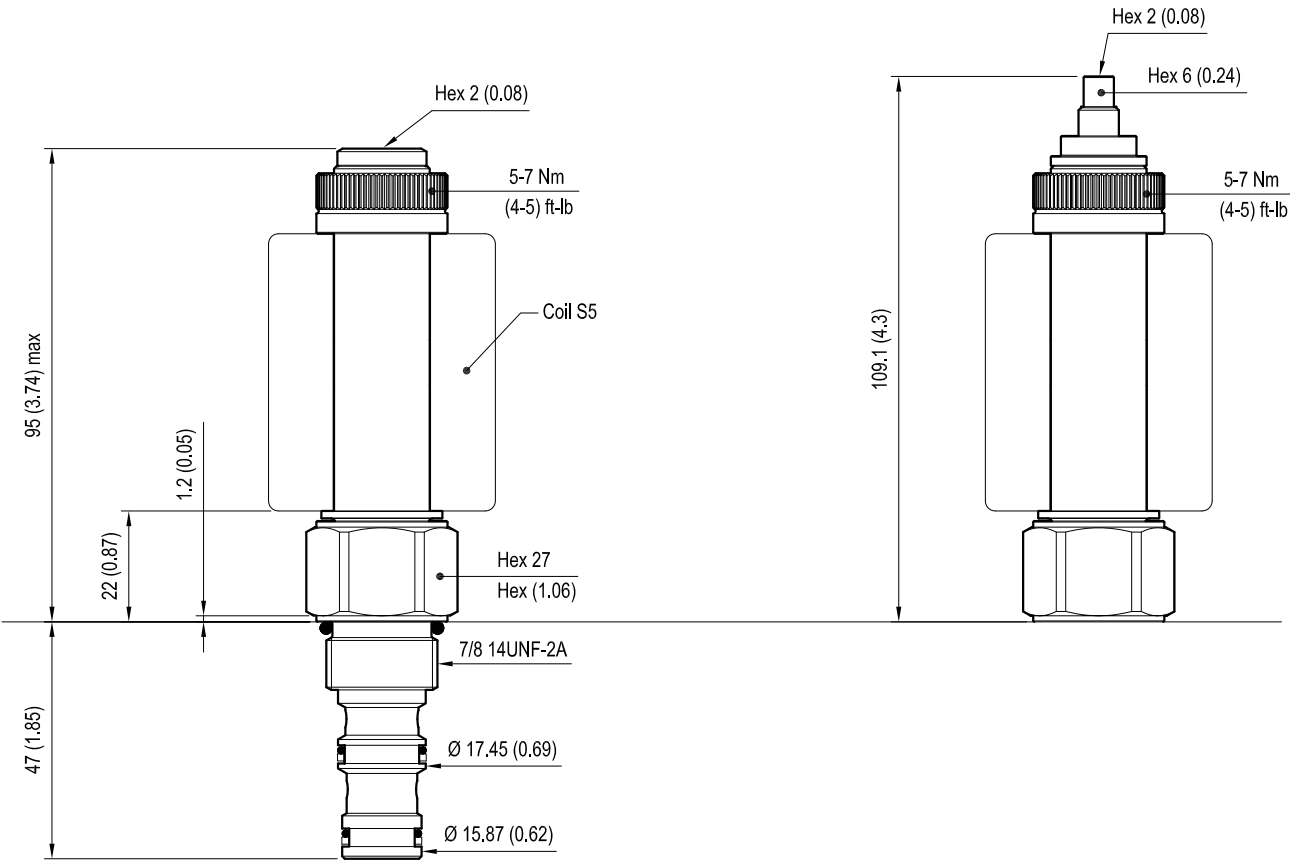
Electrical

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

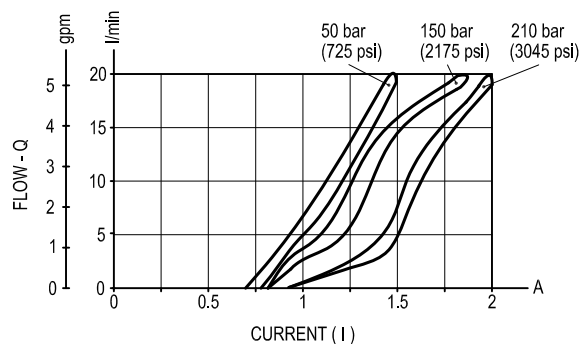
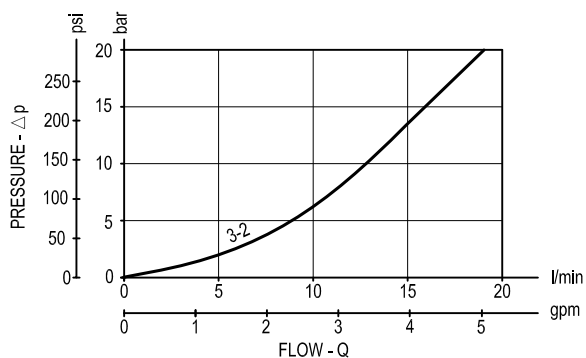


Version 03
PORT NOT USED

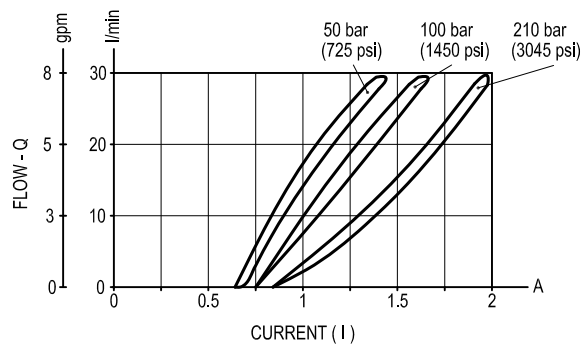
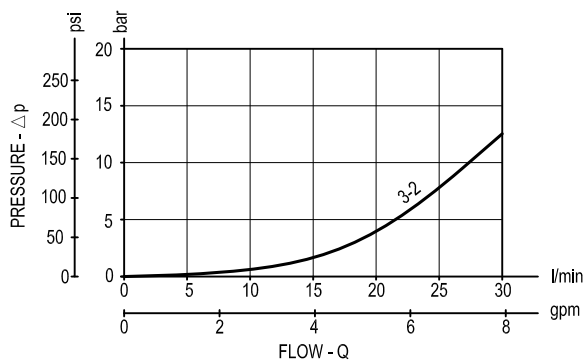
mm (Inches)

Performance graphs

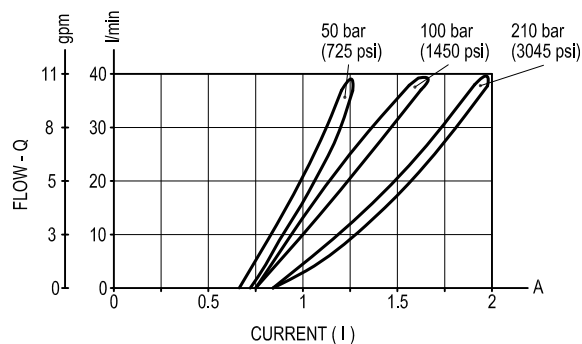
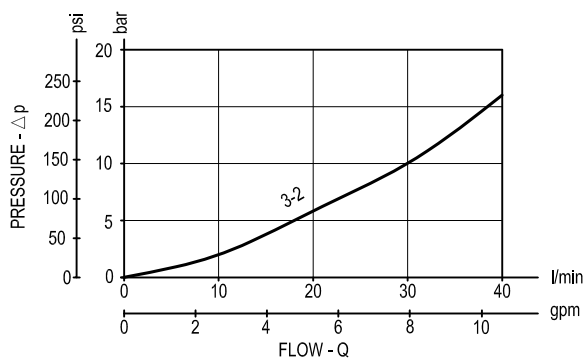
Z= 01



Z= 02



Z= 03

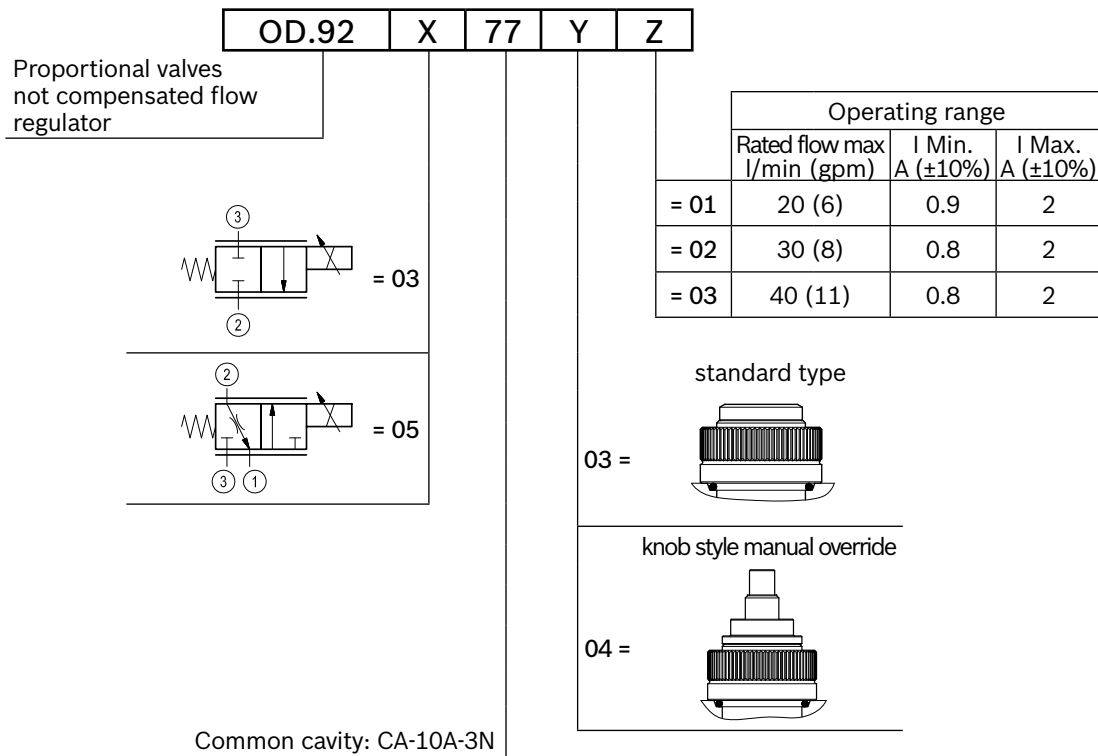


PMW Frequency: 120-150 Hz

Hysteresis: < 5%

Note: It is recommended to use coil 12 DC.

Ordering code



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

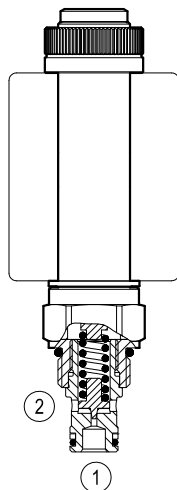
[illegible]

Proportional valves direct acting relief

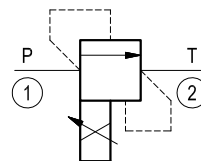
Common cavity, Size 08

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 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 18325-70
Seal kit	code material no.	RG08A2010520100 R901101437
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

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

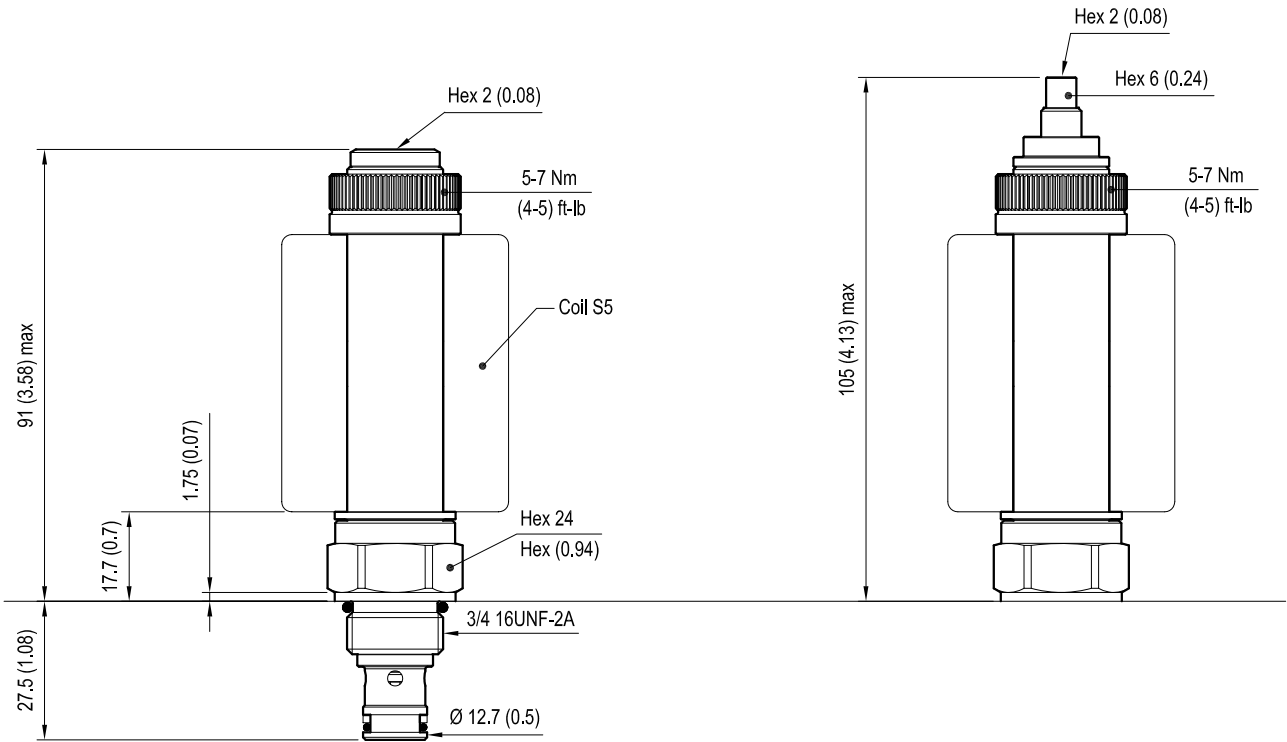
Electrical

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.

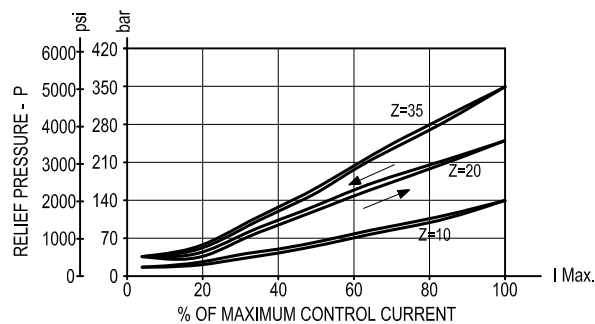
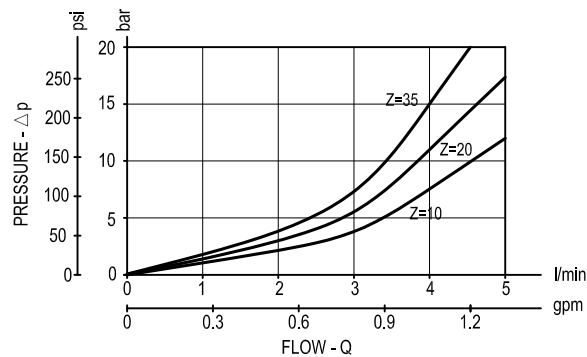
Dimensions

Proportional valves direct acting relief



mm (Inches)

Performance graphs



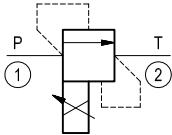
		I	P bar (psi)	Coils
Z=10	I min:	0.2 A	15 (218)	12 DC
	I max:	1.5 A	140 (2030)	12 DC
Z=20	I min:	0.15 A	30 (435)	12 DC
	I max:	1.7 A	250 (3625)	12 DC
Z=30	I min:	0.2 A	30 (435)	12 DC
	I max:	1.7 A	350 (5075)	12 DC
PMW Frequency: 120-150 Hz				
Hysteresis: < 5%				

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

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

Ordering code

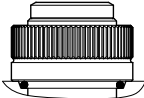
Proportional valves direct acting relief



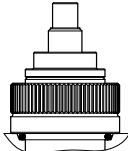
Common cavity: CA-08A-2N

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

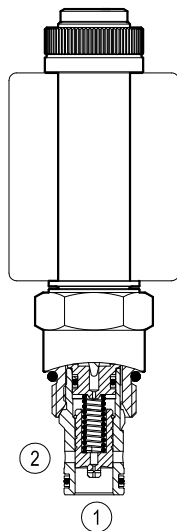
Type	Material number

Proportional valves pilot operated relief

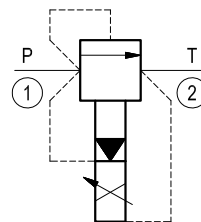
Common cavity, Size 10

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 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-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.

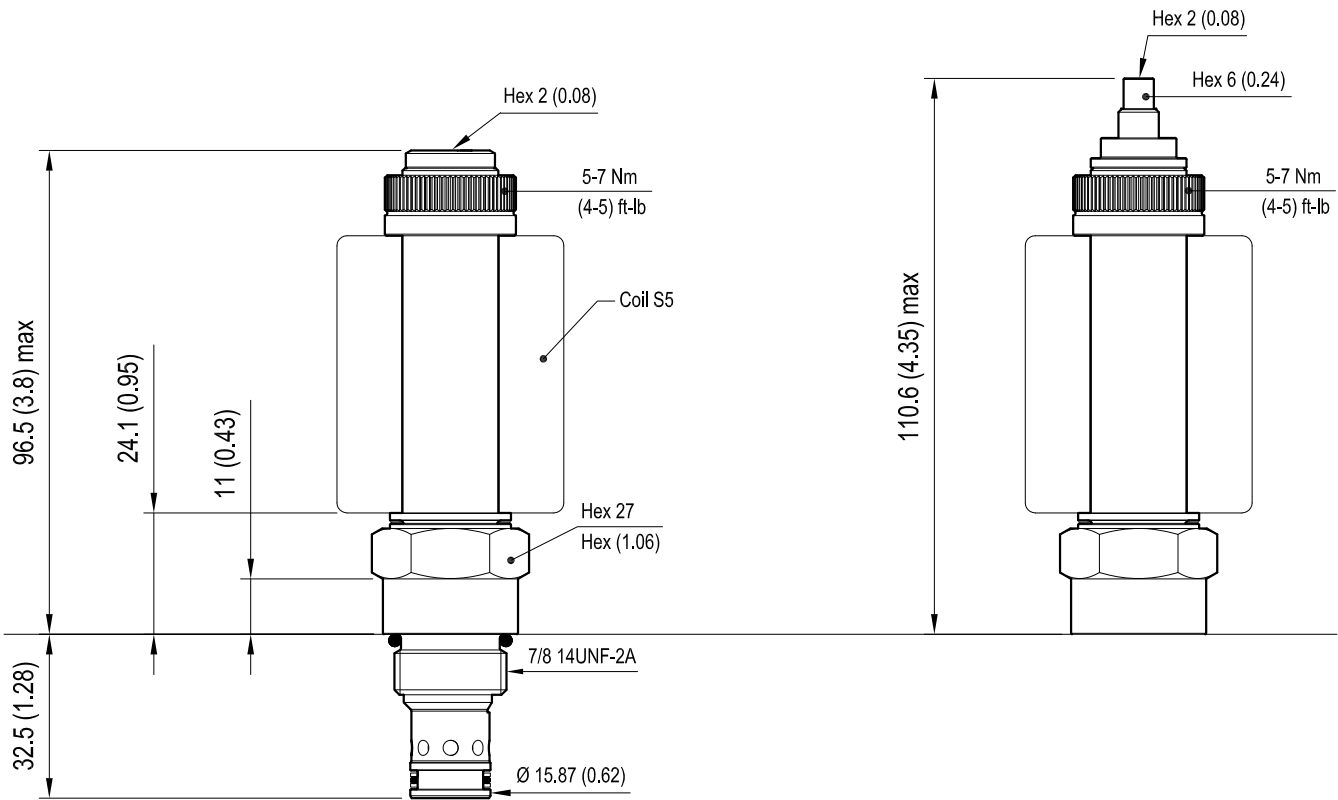
Electrical

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.

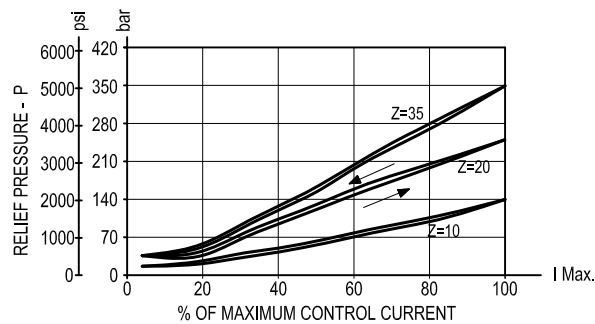
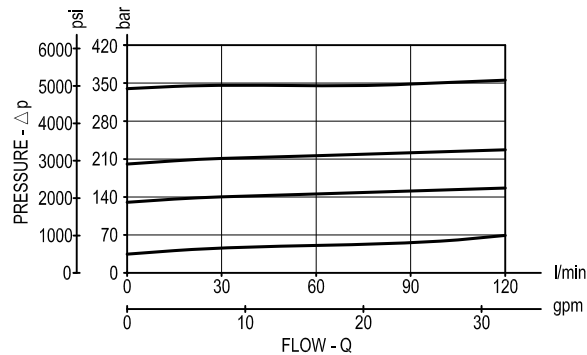
Dimensions

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

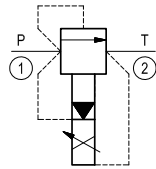
05

36

Y

Z

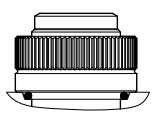
Proportional valves pilot operated relief



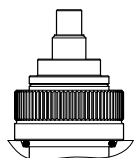
Common cavity: CA-10A-2N

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 = 

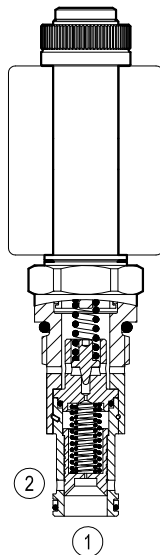
Type	Material number	Type	Material number
OD940536031000	R934001536		
OD940536032000	R934001537		
OD940536033500	R934001538		
OD940536041000	R934001539		
OD940536042000	R934001540		
OD940536043500	R934003877		

Proportional valves pilot operated relief

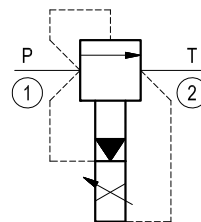
Special cavity, 065

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 (*)	cm³/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 material no.	RG0065010520100 R930001958
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

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

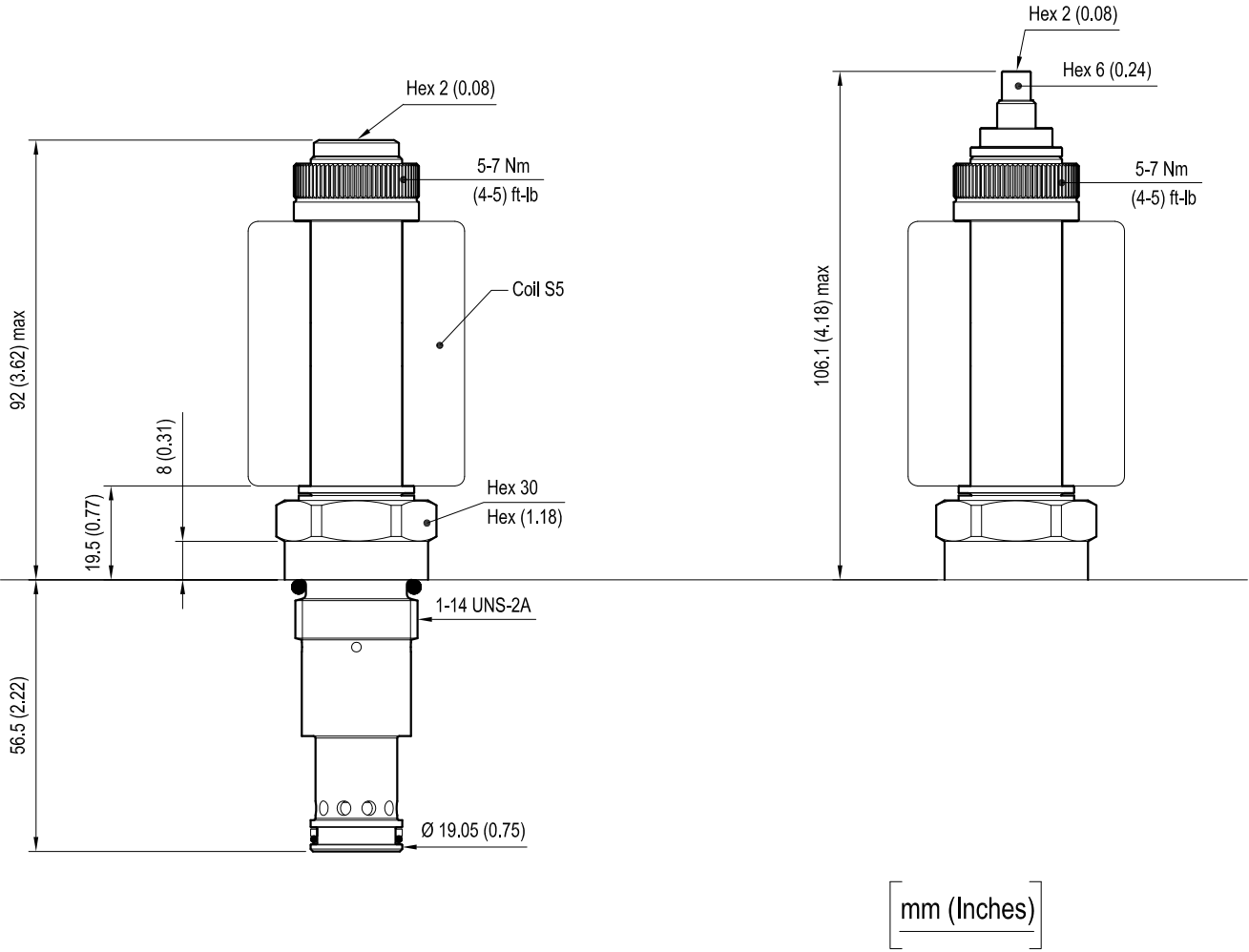
Electrical

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

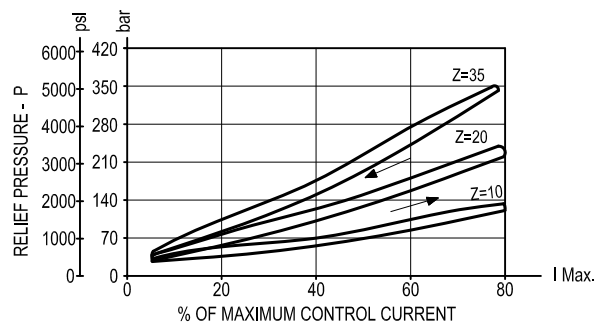
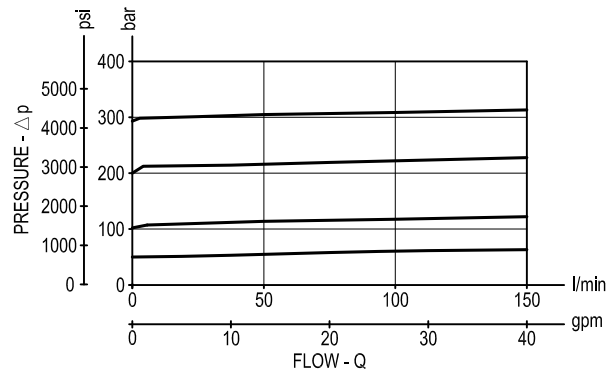
Note: Coils must be ordered separately.

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.

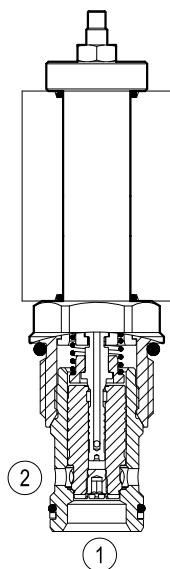
Note (2): It is recommended to bleed air carefully before operation.

Proportional valves poppet type not compensated flow regulator

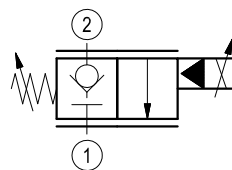
Common cavity, Size 12

VEPN-12A

OD.95.06.89.72.00



Version 06



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 mm ² /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 material no.	RG12A2010520100 R901111377
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18325-90

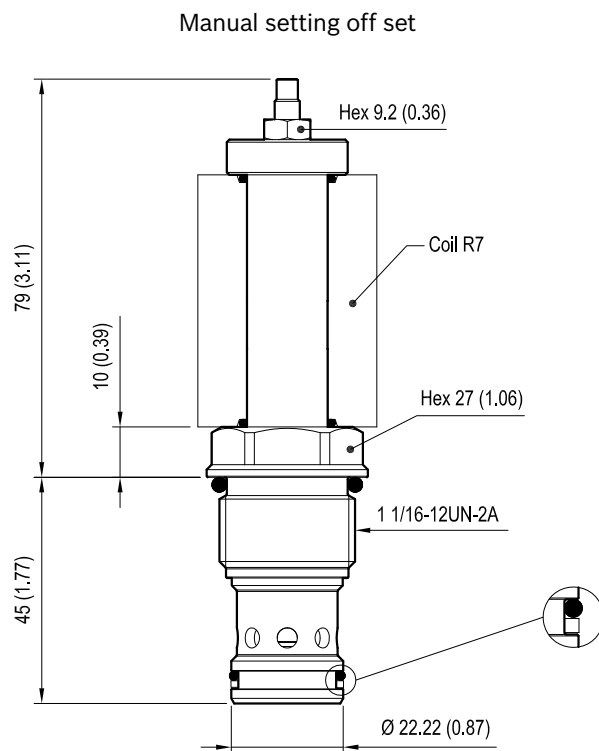
Electrical

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.

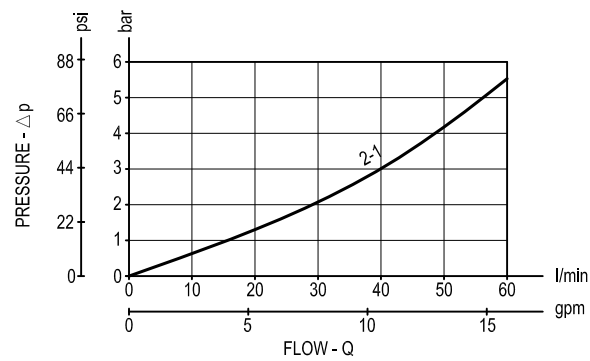
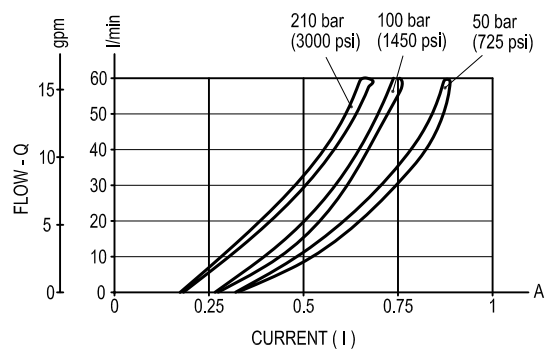
Dimensions

Proportional valves poppet type not compensated flow regulator



mm (Inches)

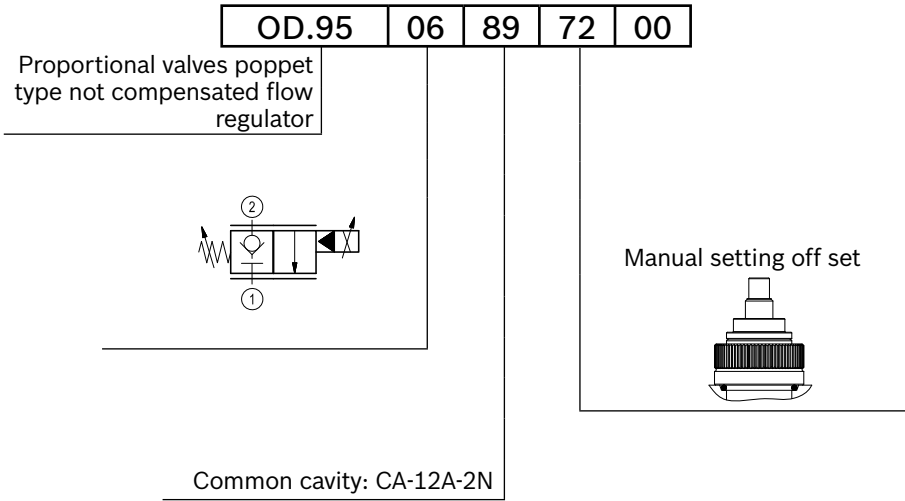
Performance graphs



	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
OD950689720000	R934001162

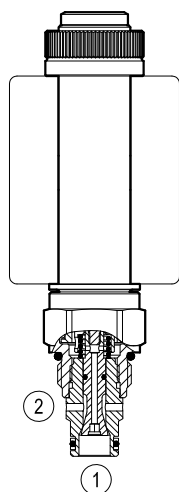
Type	Material number

Proportional valves 2-way double lock normally closed

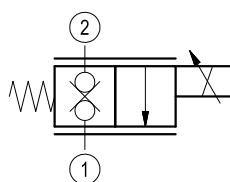
Common cavity, Size 08

VEP-5A-2T-06-NC

OD.95.31.18 - Y - 00



Version 31



General

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

Hydraulic

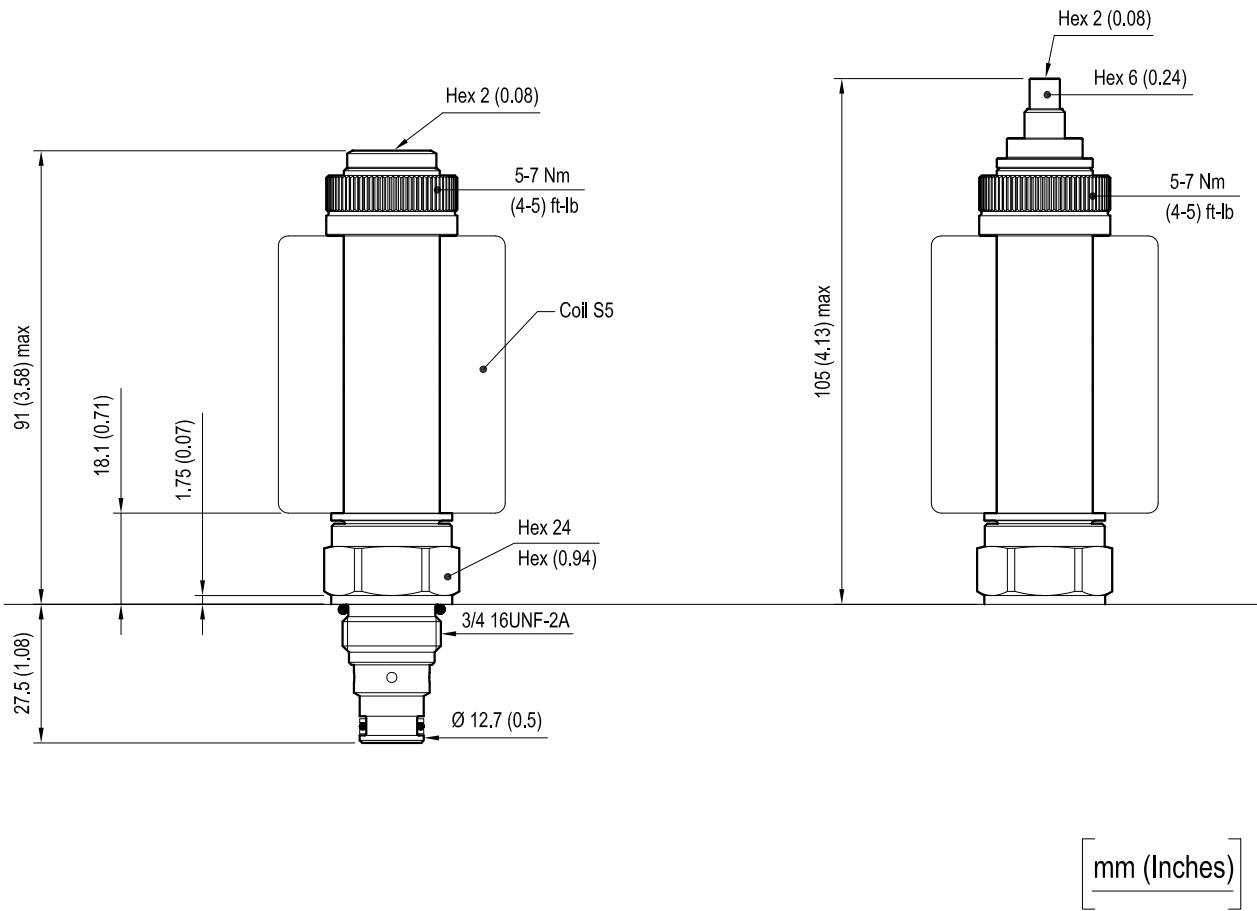
Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	2-20 (0.5-5)
Max. internal leakage	cm ³ /min. (cu.in./min.)	1 (0.1)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)
Installation 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 18325-70
Seal kit	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

Electrical

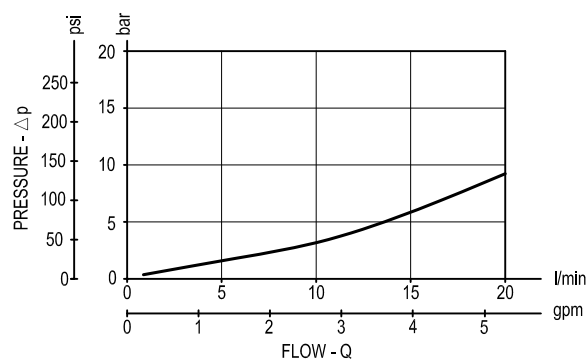
Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Dimensions

Proportional valves 2-way double lock normally closed



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

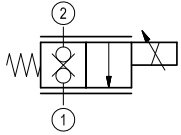
31

18

Y

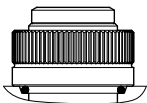
00

Proportional valves 2-way
double lock normally
closed

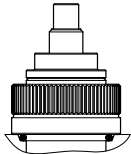


Common cavity: CA-08A-2N

standard type

03 = 

knob style manual override

04 = 

Type	Material number
OD953118030000	R901113761
OD953118040000	R901126864

Type	Material number