



Powering Business Worldwide

Sandwich valves

CETOP05 Sandwich valve bodies and assemblies
for applications up to 210 bar (3000 psi)



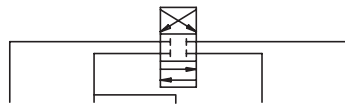
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

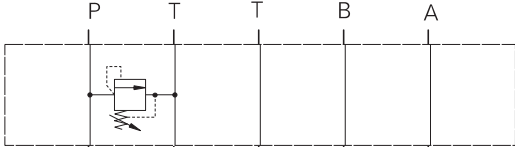
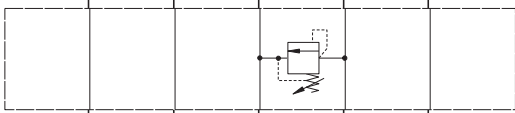
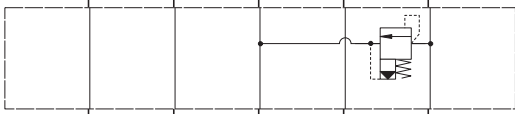
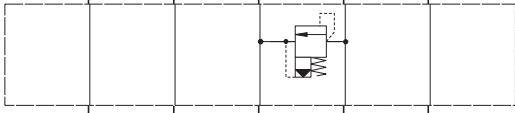
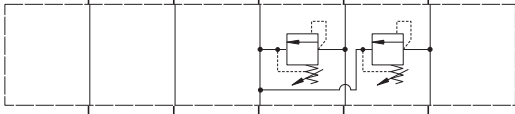
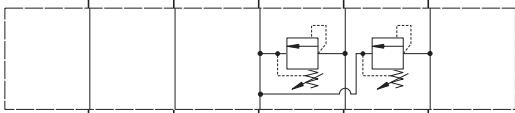
Pressure control functions

Sandwich valves
ISO 05/DO5/NG 10/CETOP5 series

Caution

Sandwich valve flow ratings are limited by the ratings of individual cartridges. Consult cartridge valve literature.

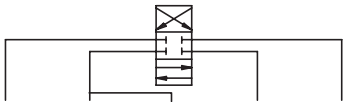


Function	Functional symbol	Model code	Housing kit	
Relief valve P-T		RV1-12**A521P**/****00	Model Part No.	A521P 6021302-001
Relief valve A-T		RV1-12**A521A**/****00	Model Part No.	A521A 6021299-001
Relief valve B-T		RV1-12**A521B**/****00	Model Part No.	A521B 6021295-001
Relief valve P-T		RV11-12**A521P**/****00	Model Part No.	A521P 6021302-001
Relief valve A-T		RV11-12**A521A**/****00	Model Part No.	A521A 6021299-001
Relief valve B-T		RV11-12**A521B**/****00	Model Part No.	A521B 6021295-001
Dual Relief valve A-T, B-T		RV1-10**A511W A**/**B**/**	Model Part No.	A511W 6021337-001
Dual Relief valve A-T, B-T		RV1-12**A512W A**/**B**/**	Model Part No.	A512W 6021184-001

P
T
T
B
A



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Function	Functional symbol					Model code	Housing kit	
	P	T	T	B	A			
Dual Relief Valve A-T, B-T						RV11-12**A512W A**/**B**/**	Model Part No.	A512W 6021184-001
							Cartridge Cartridge data sheet Cavity	RV11-12 [qty2] Section E C-12-2 [qty2]
Cross Port Relief Valve A-B						RV3-12**A521WA**/**B**/**	Model Part No.	A521W 6021158-001
							Cartridge Cartridge data sheet Cavity	RV3-12 [qty2] Section E C-12-2 [qty2]
Cross Port Relief Valve A-B						RV11-12**A521WA**/**B**/**	Model Part No.	A521W 6021158-001
							Cartridge Cartridge data sheet Cavity	RV11-12 [qty2] Section E C-12-2 [qty2]
Reducing Valve on P Drained to T						PRV12-12**A526P**/**00	Model Part No.	A526W 6021329-001
							Cartridge Cartridge data sheet Cavity	PRV12-12 Section E C-12-3
Reducing Valve on B Drained to T Reverse FF Check						PRV12-12** A510B**/**00	Model Part No.	A510B 6021352-001
							Cartridge Cartridge data sheet Cavity	PRV12-12/CV11-12 Section E & G C-12-3/C-12-2
	P	T	T	B	A			

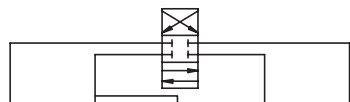
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Check functions

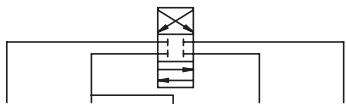
Sandwich valves
ISO 05/DO5/NG 10/CETOP5 series

⚠ Caution

Sandwich valve flow ratings are limited by the ratings of individual cartridges. Consult cartridge valve literature.



Function	Functional symbol	Model code	Housing kit	
Check Valve on P		CV11-12*P A524P***00	Model Part No.	A524P 6021186-001
Check Valve on A Free Flow Out		CV3-10*P A507A***00	Model Part No.	A507A 6021185-001
Check Valve on A Free Flow out		CV11-12*P A514A ***00	Model Part No.	A514A 6021288-001
Check in A Piloted from B		4CK90*A523A**00	Model Part No.	A523A 6021282-001
Check in A & B Cross Piloted		4CK90*A523W**00	Model Part No.	A523W 5999906-001
Check Valve on B Free Flow out		CV11-12*P A514B ***00	Model Part No.	A514B 6021273-001
Shuttle Valve A and B Output External		DSV2-8*B A509W 00	Model Part No.	A509W 6021189-001
			Cartridge data sheet	DSV2-8-B-0 Section G C-8-3



Function	Functional symbol					Model code	Housing kit	
Flow Regulator Pressure Compensated and Check Meter in P						FAR1-12** A524P ***00	Model Part No.	A524P 6021186-001
Flow Regulator Pressure Compensated and Check Meter in A						FAR1-12** A514A ***00	Model Part No.	A514A 6021288-001
Flow Regulator Pressure Compensated and Check meter out A						FAR1-12** A524A ***00	Model Part No.	A524A 6021181-001
Flow Regulator Pressure Compensated and Check meter in B						FAR1-12** A514B ***00	Model Part No.	A514B 6021273-001
Flow Regulator Pressure Compensated and Check meter out B						FAR1-12** A524B ***00	Model Part No.	A524B 6021182-001
Flow Regulator Pressure Compensated and Check meter in A & B						FAR1-12** A514W A***B***00	Model Part No.	A514W 4998388-001
Flow Regulator Pressure Compensated and Check meter out A & B						FAR1-12** A524W A***B***00	Model Part No.	A524W 4998389-001

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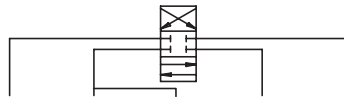
Solenoid control functions

Sandwich valves
ISO 05/DO5/NG 10/CETOP5 series



Caution

Sandwich valve flow ratings are limited by the ratings of individual cartridges. Consult cartridge valve literature.



Function	Functional symbol	Model code	Housing kit	
Solenoid 2/2 Poppet type (P-T) Normally Closed		SV3-12*C A525P *** *00	Model Part No.	A525P 6021293-001
Solenoid 2/2 Poppet type (P-T) Normally Open		SV3-12*0 A525P *** *00	Model Part No.	A525P 6021273-001
Solenoid 2/2 Poppet type Blocked on A Normally Closed		SV3-12*C A524A *** *00	Model Part No.	A524A 6021181-001
Solenoid 2/2 Poppet type Blocked on A Normally Open		SV3-12*0 A524A *** *00	Model Part No.	A524A 6021181-001
Poppet type Blocked on B Normally Closed		SV3-12*C A524B *** *00	Model Part No.	A524B 6021182-001
Poppet type Blocked on B Normally Open		SV3-12*0 A524B *** *00	Model Part No.	A524B 6021182-001
Poppet type Load Holding on A & B Normally Closed		SV3-12*C A524W *** *00	Model Part No.	A524W 4998379-001
Poppet type Load Holding on A & B Normally Closed		SV3-12*0 A524W *** *00	Model Part No.	A524W 4998379-001
Poppet type Load Holding on A Normally Closed		SV3-12*C A514A *** *00	Model Part No.	A514A 6021288-001
Poppet type Load Holding on A Normally Open		SV3-12*0 A514A *** *00	Model Part No.	A514A 6021288-001
Poppet type Load Holding on B Normally Open		SV3-12*0 * A514A *** *00	Model Part No.	A514A 6021288-001

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⚠ Caution

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Solenoid control functions

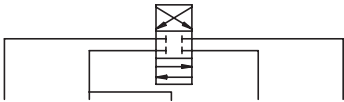
Function	Functional symbol	Model code	Housing kit	
Poppet type Load Holding on B Normally Closed		SV3-12-C A514B *** *00	Model Part No.	A514B 6021273-001
Poppet type Load Holding on B Normally Open		SV3-12*0 A514B *** *00	Model Part No.	A514B 6021273-001
Poppet type Load Holding on A & B Normally Closed		SV3-12*C A514W *** *00	Model Part No.	A514W 4998388-001
Poppet type Load Holding on A & B Normally Closed		SV3-12*0 A514W*** *00	Model Part No.	A514W 4998388-001
Poppet Bi-Directional Load Holding on A Normally Closed		SBV11-10*C A514A *** *00	Model Part No.	A514A 6021181-001
Poppet Bi-Directional Load Holding on A Normally Open		SBV11-10*0 A514A *** *00	Model Part No.	A514A 6021181-001
Poppet Bi-Directional Load Holding on B Normally Closed		SBV11-10*C A514B *** *00	Model Part No.	A514B 6021273-001
Poppet Bi-Directional Load Holding on B Normally Open		SBV11-10*0 A514B *** *00	Model Part No.	A514B 6021273-001
Poppet Bi-Directional Load Holding on A & B Normally Clc		SBV11-12*C A514W *** *00	Model Part No.	A514W 4998388-001
Poppet Bi-Directional Load Holding on A & B Normally Open		SBV11-12*0 A514W *** *00	Model Part No.	A514W 4998388-001
Poppet Bi-Directional Blocked A and B Normally Closed		SBV11-12*C A518W *** *00	Model Part No.	A518W 6021277-001
Poppet Bi-Directional Blocked A and B Normally Open		SBV11-12*0 A518W *** *00	Model Part No.	A518W 6021277-001
Solenoid 3-Way Selector on P		SV11-12*3 A526P *** *00	Model Part No.	A526P 6021329-001

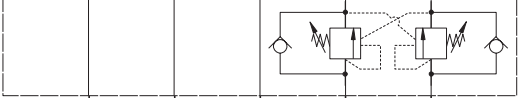
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Load control functions

 Caution

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Function	Functiona symbol					Model code	Housing kit	
	P	T	T	B	A			
Overcenter in A Pilot from B						1CE90 * A523AA 20S/*B20S/** **	Model Part No.	A523A 6021282-001
							Cartridge Cartridge Data Sheet Cavity	1CE90 Section F A12336
Overcenter in A & B Cross Piloted						1CE90 * A523WA 20S/*B20S/** **	Model Part No.	A523W 5999906-001
							Cartridge Cartridge Data Sheet Cavity	1CE90 qty 2 Section F A12336 qty 2
	P	T	T	B	A			
								

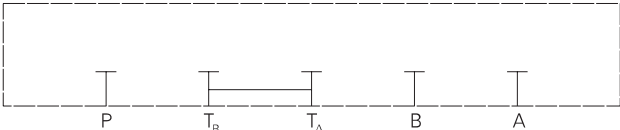
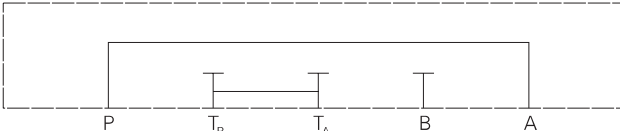
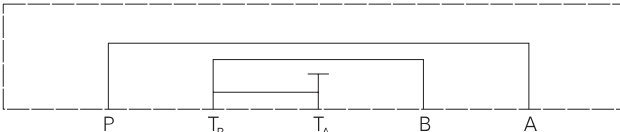
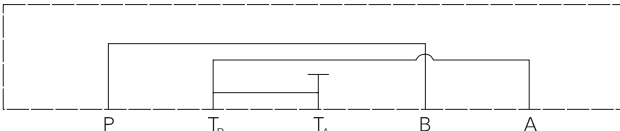
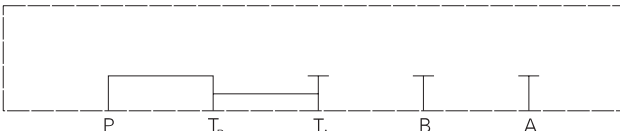
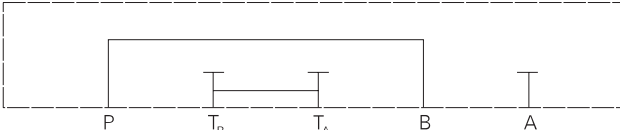
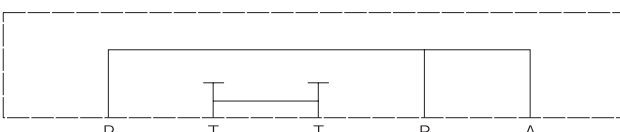
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Note: O-Rings to be ordered separately.

Blanking and linking plates

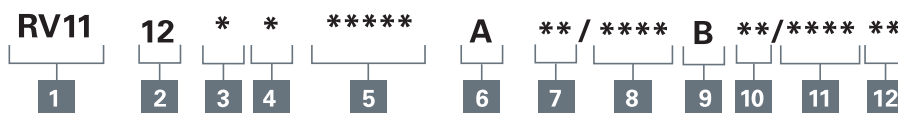
Function	Functional symbol	Part number
Blanking Plate		6030861-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000
Linking Plate P to A with B & T Blocked		6030883-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000
Linking Plate P to A & B to T		6030885-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000
Linking Plate P to B & A to T		6030887-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000
Linking Plate P to T with A & B Blocked		6030889-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000
Linking Plate A to B with P & T Blocked		6030891-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000
Linking Plate P to B with A & T Blocked		6030893-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000
Linking Plate P to A & B with T Blocked		6030895-001 Buna N O-Ring Kit 9900941-000 Viton O-Ring Kit 9900942-000

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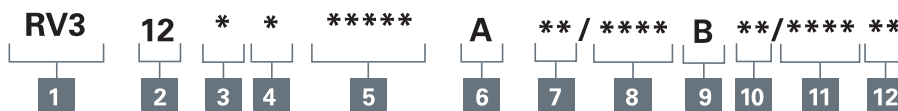
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Model codes

For sandwich valve assemblies with two valves



1 Function RV11 - Relief valve	4 Adjustment C - Cap K - Knob S - Screw	7 Cracking pressure range 15 - 10-100 bar (150-1500 psi) 30 - 17-210 bar (250-3000 psi)	10 Cracking pressure range 15 - 10-100 bar (150-1500 psi) 30 - 17-210 bar (250-3000 psi)
2 Size 12 - 12 Size	5 Housing kit A512W - Dual A & B to T relief A521W - Cross port relief	8 Pressure setting User requested setting in psi	11 Pressure setting User requested setting in psi
3 Seals N - Buna-N V - Viton	6 A port acted upon	9 B port acted upon	12 Special features 00 - None

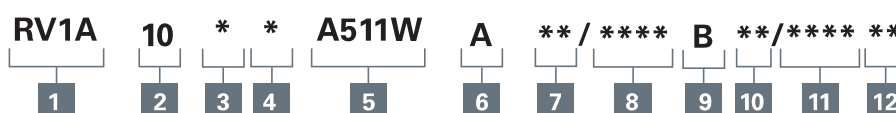


1 Function RV3 - Relief valve	4 Adjustment C - Cap F - Factory Set K - Knob S - Screw	7 Cracking pressure range 2.5 - 3.4 to 17 bar (50-250 psi) 8.5 - 13-55 bar (200-850 psi) 22 - 20-150 bar (300-2200 psi)	10 Cracking pressure range 2.5 - 3.4 to 17 bar (50-250 psi) 8.5 - 13-55 bar (200-850 psi) 22 - 20-150 bar (300-2200 psi)
2 Size 12 - 12 Size	5 Housing Kit A512W - Dual A & B to T relief A521W - Cross port relief	8 Pressure setting User requested setting in psi	11 Pressure setting User requested setting in psi
3 Seals N - Buna-N V - Viton	6 A port acted upon	9 B port acted upon	12 Special features User requested setting in psi

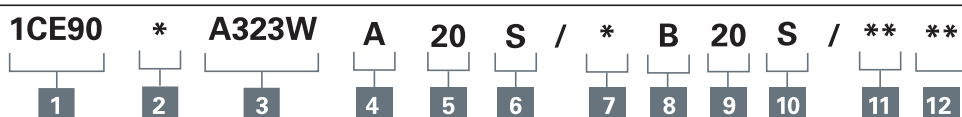
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Model codes

For sandwich valve assemblies with two valves



1 Function RV1A - Relief valve	4 Adjustment C - Cap I - Internal F - Fixed K - Knob S - Screw	7 Cracking pressure range 3 - 3.5-20 bar (50-300 psi) 9 - 7-62 bar (100-900 psi) 18 - 17-124 bar (250-1800 psi) 30 - 34-210 bar (500-3000 psi)	10 Cracking pressure range 3 - 3.5-20 bar (50-300 psi) 9 - 7-62 bar (100-900 psi) 18 - 17-124 bar (250-1800 psi) 30 - 34-210 bar (500-3000 psi)
2 Size 10 - 10 Size	5 Housing kit	8 Pressure setting User requested setting in psi	11 Pressure setting User requested setting in psi
3 Seals N - Buna-N V - Viton®	6 A port acted upon	9 B port acted upon	12 Special features 00 - None

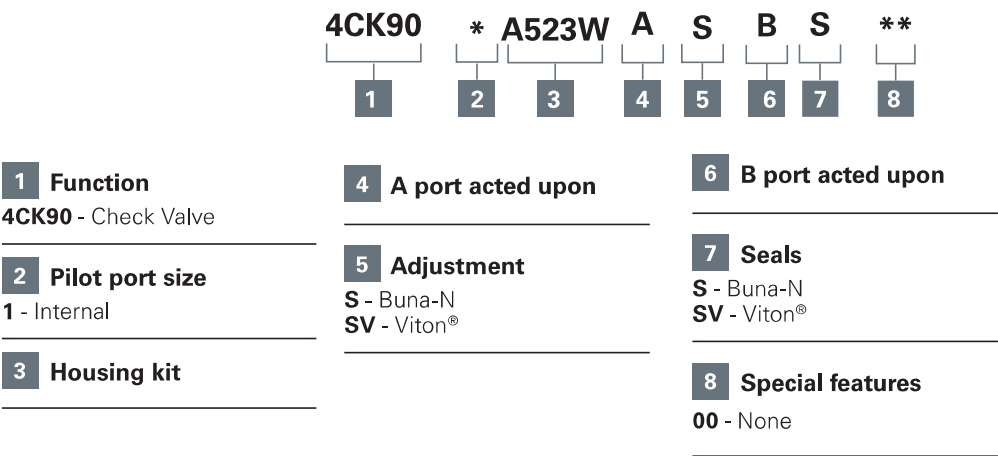


1 Pilot ratio/function 1CE30 - Overcenter	5 Pressure range 20 - 70-225 bar, Standard setting 100 bar Setting made at 4.8 L/min.	8 B port acted upon	11 Pilot ratio 4- 4:1 8- 8:1
2 Adjustment F - Screw N - Fixed	6 Seals S - Buna-N SV - Viton®	9 Pressure range 20 - 70-225 bar, Standard setting 100 bar Setting made at 4.8 L/min.	12 Special features 00 - None
3 Housing kit	7 Pilot ratio 4- 4:1 8- 8:1	10 Seals S - Buna-N SV - Viton®	

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Model codes

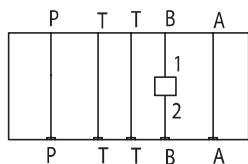
For sandwich valve assemblies with two valves



Dimensions

mm (inch)

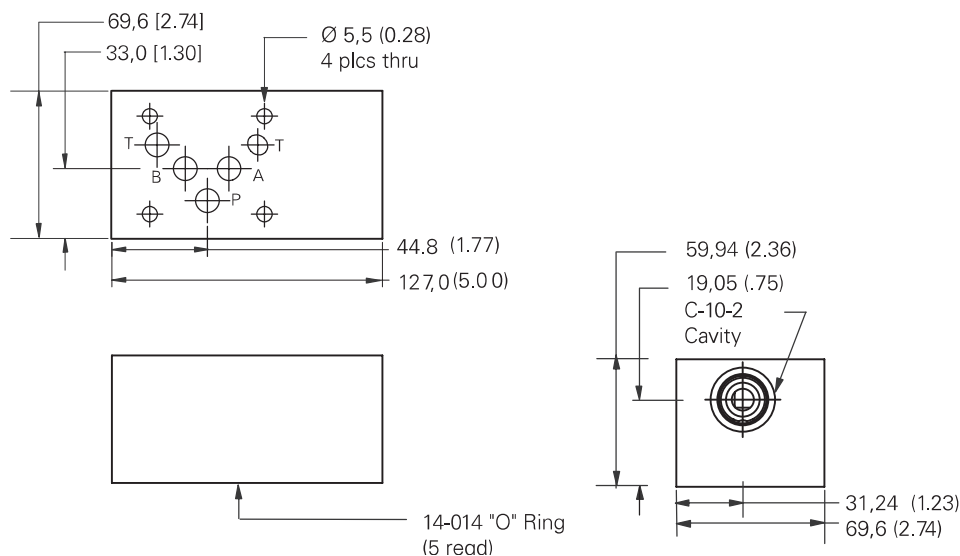
Cavity porting



Torque cartridge in housing
108-122 Nm (80-90 ft. lbs)

A507A Housing kit

Part Number 6021185-001



Typical Cartridges

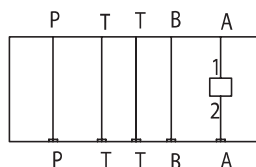
Function

CV3-10	Check valve on A, free flow out
--------	---------------------------------

Dimensions

mm (inch)

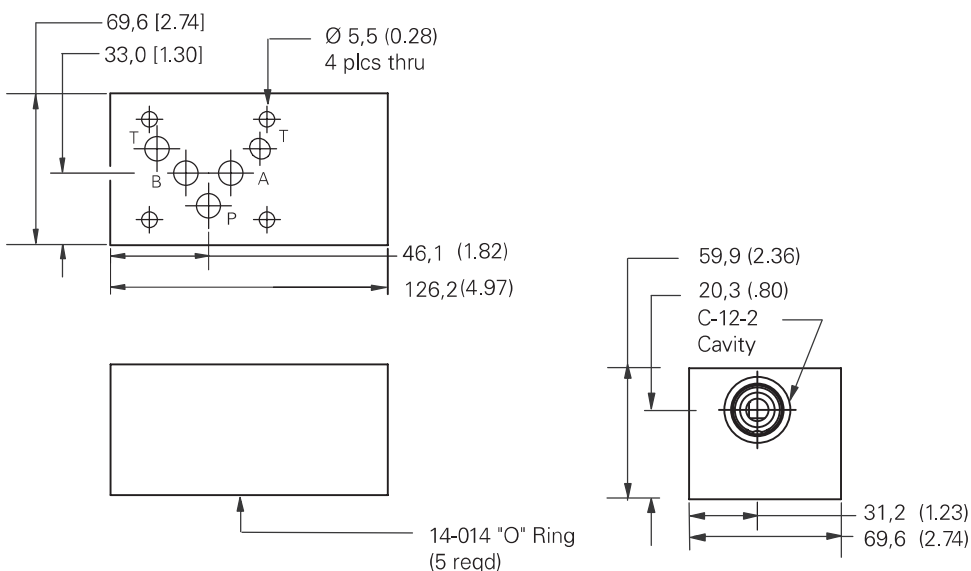
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A514A Housing Kit

Part Number 6021288-0 01



Typical Cartridges

Function

CV11-12	Check valve on A, Free Flow Out
FAR1-12	Flow regulator pressure compensated and check, Meter in A
SBV11-12-C	Solenoid 2-way poppet type bi-directional load holding on A, normally closed
SBV11-12-O	Solenoid 2-way poppet type bi-directional load holding on A, normally open
SV3-12-C	Solenoid 2-way poppet type load holding on A, normally closed
SV3-12-O	Solenoid 2-way poppet type load holding on A, normally open

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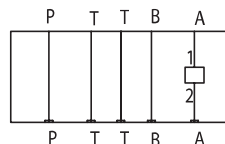
Dimensions

ISO 05/D05/NG 10/CETOP5 Housing kits

Dimensions

mm (inch)

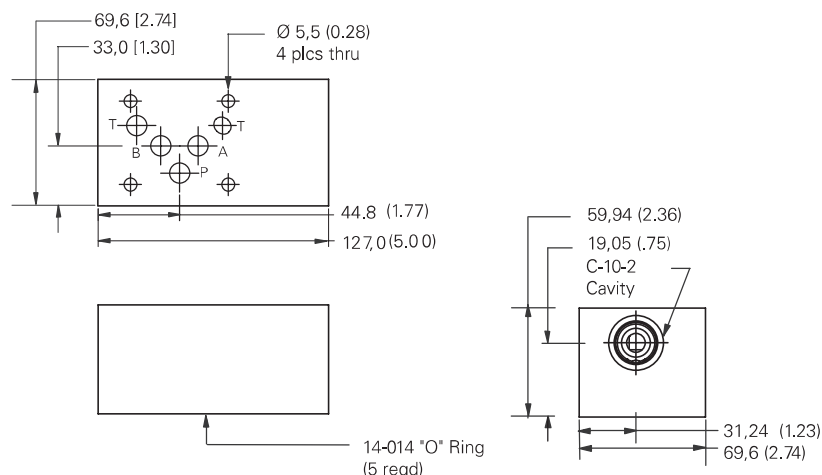
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A514B Housing Kit

Part Number **6021273-0 01**



Typical Cartridges

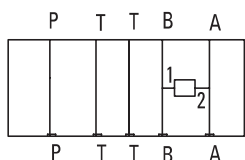
Function

CV11-12	Check valve on B, Free Flow Out
FAR1-12	Flow Regulator pressure compensated and check, Meter in B
SBV11-12-C	SBV11-12-C Solenoid 2-way poppet type bi-directional load holding on B, normally closed
SBV11-12-O	SBV11-12-O Solenoid 2-way poppet type bi-directional load holding on B, normally open
SV3-12-C	Solenoid 2-way poppet type load holding on B, normally closed
SV3-12-O	Solenoid 2-way poppet type load holding on B, normally open

Dimensions

mm (inch)

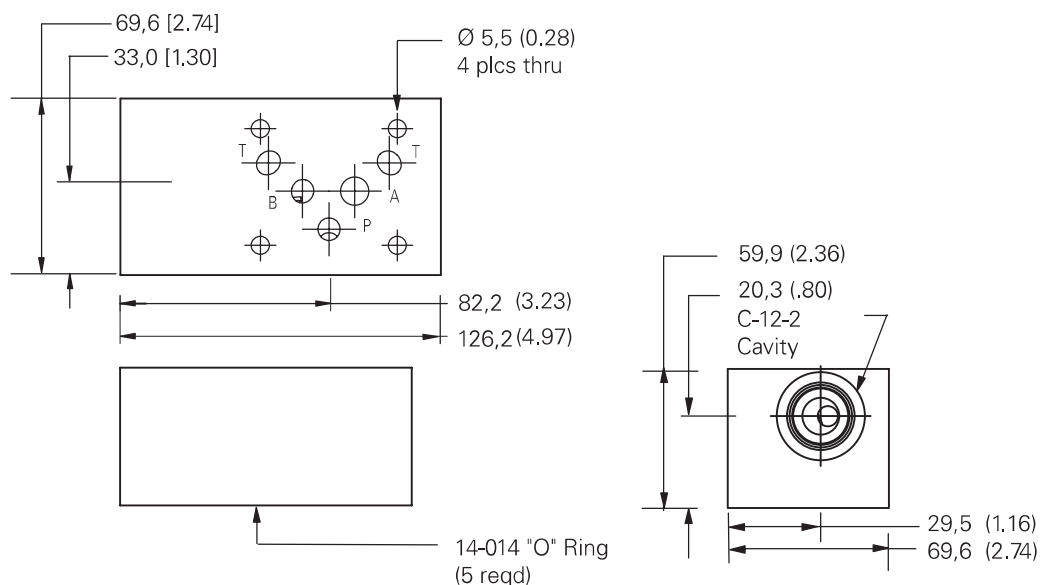
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A518W Housing kit

Part Number **6021277-001**



Typical cartridges

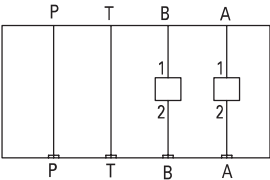
Function

SBV11-12-C	Solenoid 2-way poppet type bi-directional load holding on A-B & B-A, normally closed
SBV11-12-O	Solenoid 2-way poppet type bi-directional load holding on A-B & B-A, normally open

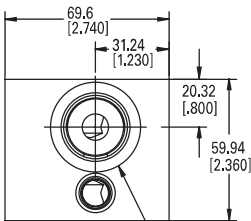
Dimensions

mm (inch)

Cavity porting

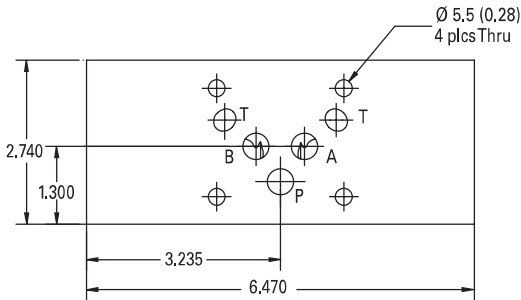


Torque cartridge in housing-
81-93 Nm (60-70 ft bls)



C-12-2 Cavity

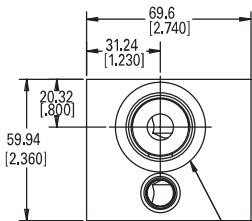
A514W Housing kit
Part Number 4998388-001



Ø 5.5 (0.28)
4 pls Thru



14-014 "O" Ring (5 reqd)



C-12-2 Cavity

Typical cartridges	Function
FAR1-12	Flow regulator pressure compensated and check, Meter in A
SBV11-12-C	Solenoid 2-way poppet type bi-directional load holding on A, normally closed
SBV11-12-0	Solenoid 2-way poppet type bi-directional load holding on A, normally open
SV3-12-C	Solenoid 2-way poppet type load holding on A, normally closed
SV3-12-0	Solenoid 2-way poppet type load holding on A, normally open

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

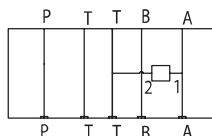
Dimensions

ISO 05/D05/NG 10/CETOP5 Housing kits

Dimensions

mm (inch)

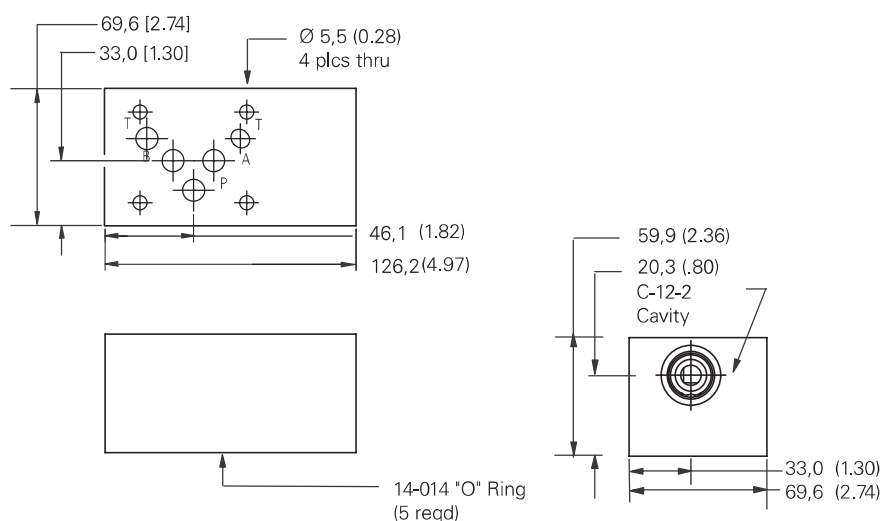
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A521A Housing kit

Part Number **6021299-0 01**



Typical cartridges

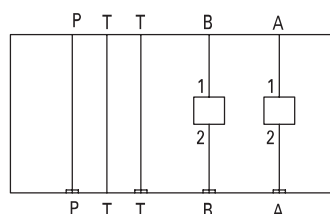
Function

RV1-12	Relief valve A-T
RV11-12	Relief valve A-T

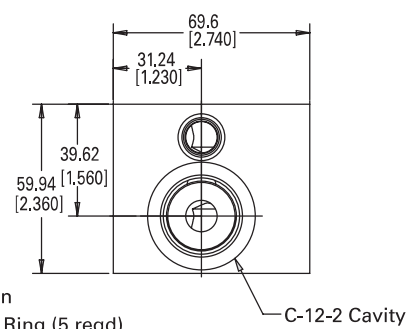
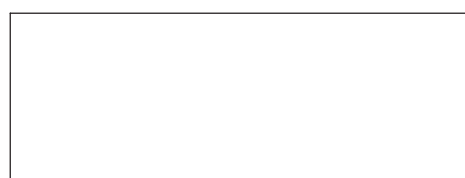
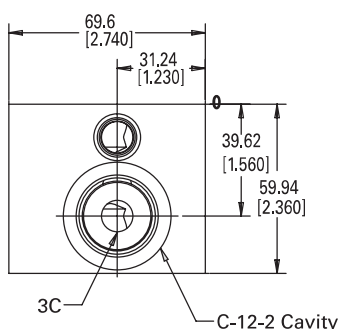
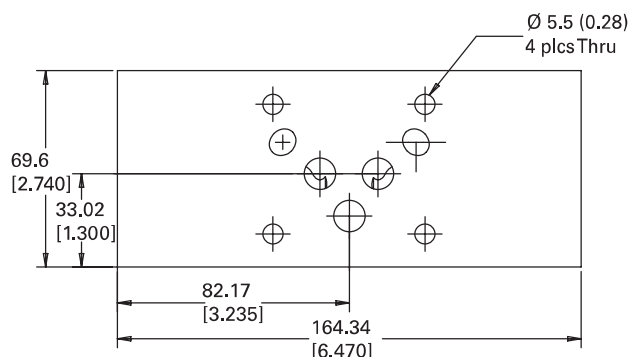
Dimensions

mm (inch)

Cavity porting



Torque cartridge in housing-



Typical cartridges

Function

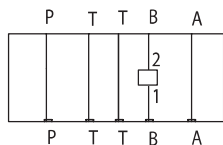
FAR1-12	Flow regulator pressure compensated and check, Meter in B
SV3-12-C	Solenoid 2-way poppet type load holding on B, normally closed
SV3-12-O	Solenoid 2-way poppet type load holding on B, normally open

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Dimensions

mm (inch)

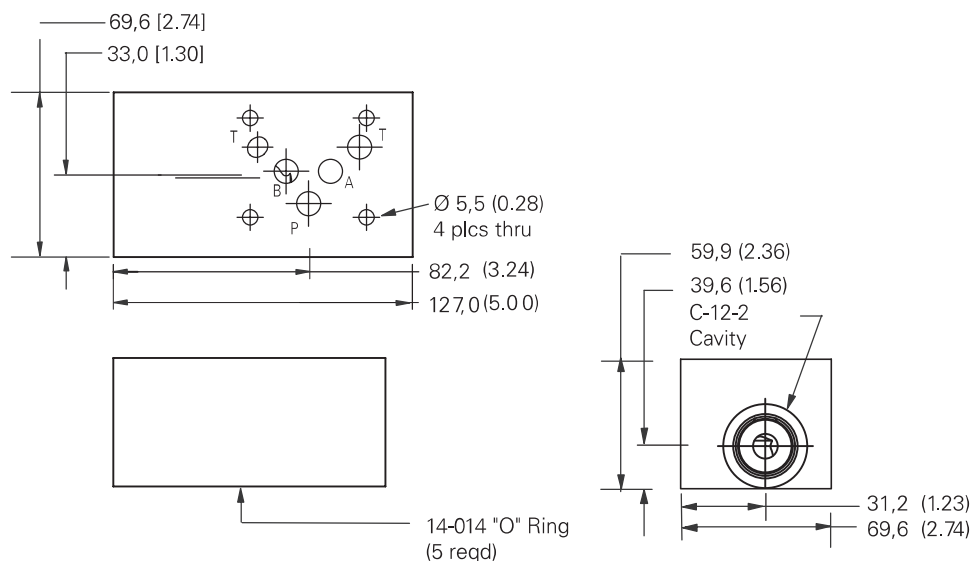
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A524B Housing kit

Part Number 6021282-0 01



Typical cartridges

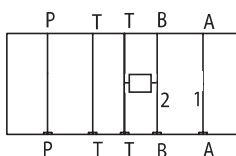
Function

FAR1-12	Flow regulator pressure compensated and check, Meter in B
SV3-12-C	Solenoid 2-way poppet type load holding on B, normally closed
SV3-12-O	Solenoid 2-way poppet type load holding on B, normally open

Dimensions

mm (inch)

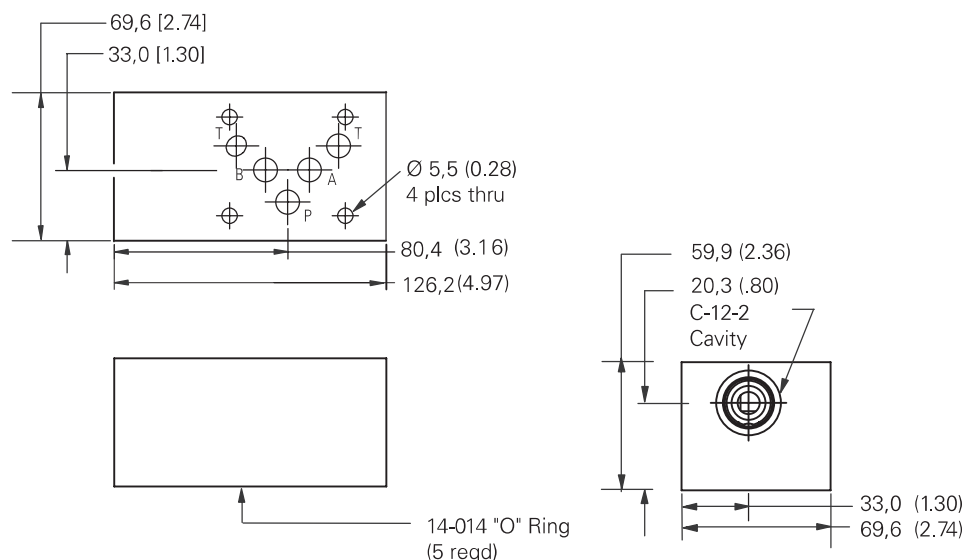
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A521B Housing kit

Part Number 6021295-0 01



Typical cartridges

Function

RV1-12	Relief valve B-T
RV11-12	Relief valve B-T

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

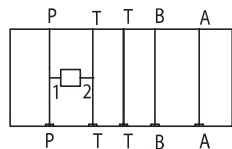
Dimensions

ISO 05/D05/NG 10/CETOP5 Housing kits

Dimensions

mm (inch)

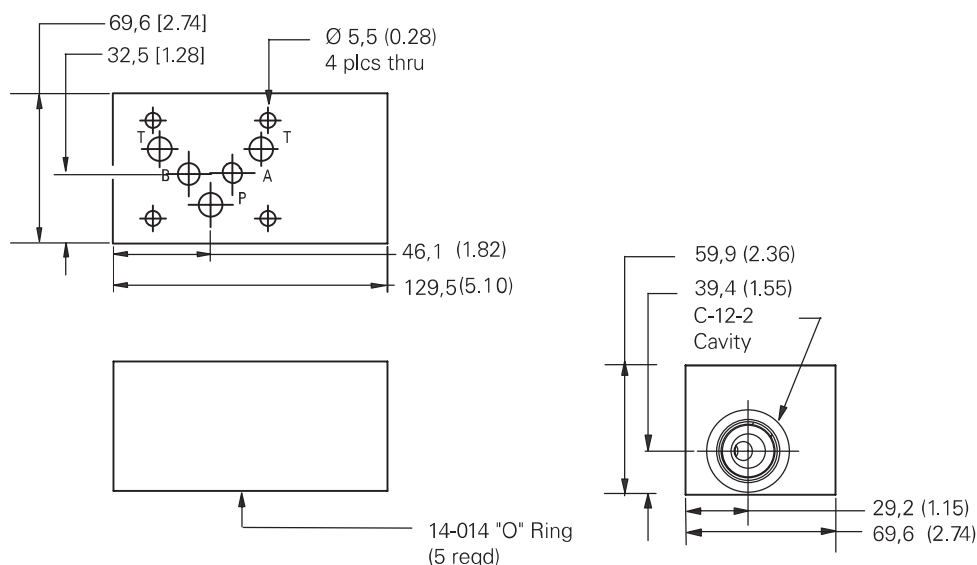
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A521P Housing kit

Part Number 6021302-0 01



Typical cartridges

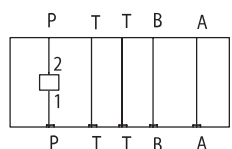
Function

RV1-12	Relief valve P-T
RV11-12	Relief valve P-T

Dimensions

mm (inch)

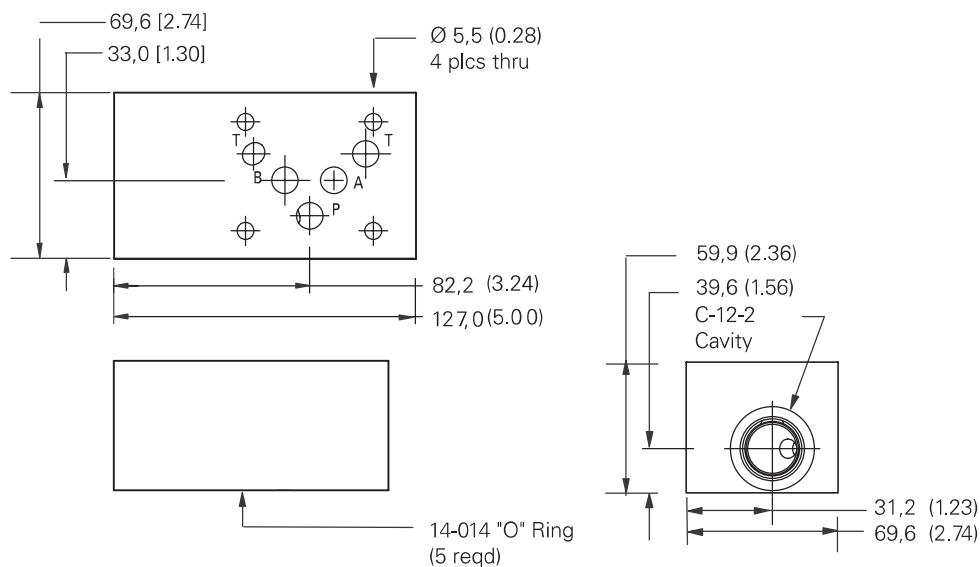
Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

A524P Housing kit

Part Number 6021186-001



Typical cartridges

Function

CV11-12	Check valve on P
FAR1-12	Flow regulator pressure compensated, meter in P

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

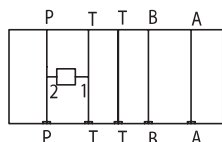
Dimensions

mm (inch)

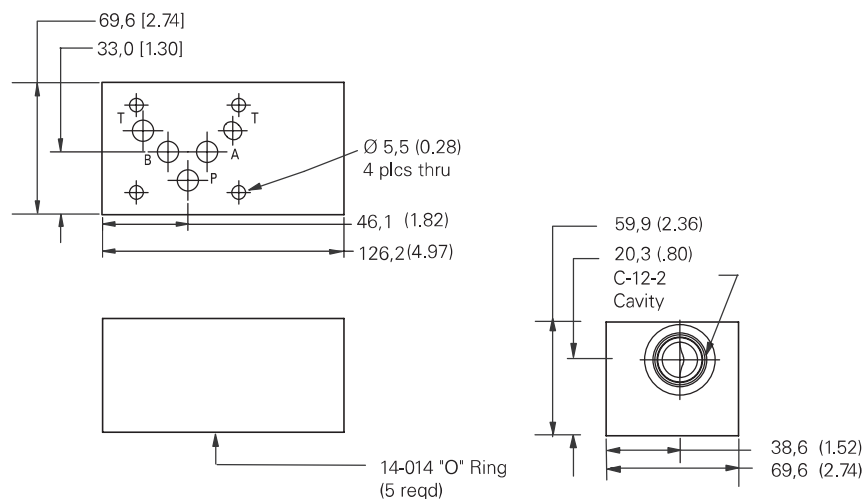
A525P Housing kit

Part Number 6021293-0 01

Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)



Typical cartridges

Function

SV3-12-C	Solenoid 2-way poppet type P-T, normally closed
SV3-12-O	Solenoid 2-way poppet type P-T, normally open

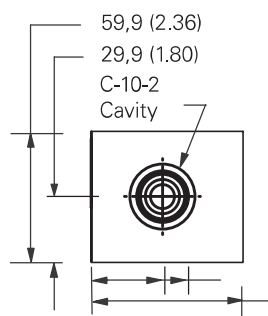
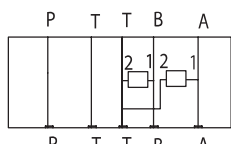
Dimensions

mm (inch)

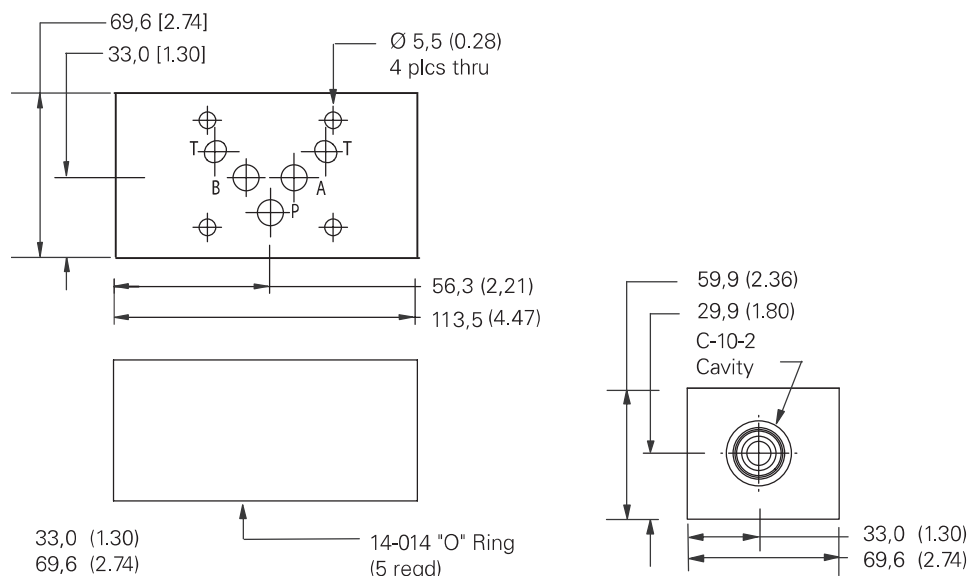
A511W Housing kit

Part Number 4998388-001

Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)



Typical cartridges

Function

RV1-10	Dual relief valve A-T, B-T
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Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Dimensions

ISO 05/D05/NG 10/CETOP5 Housing kits

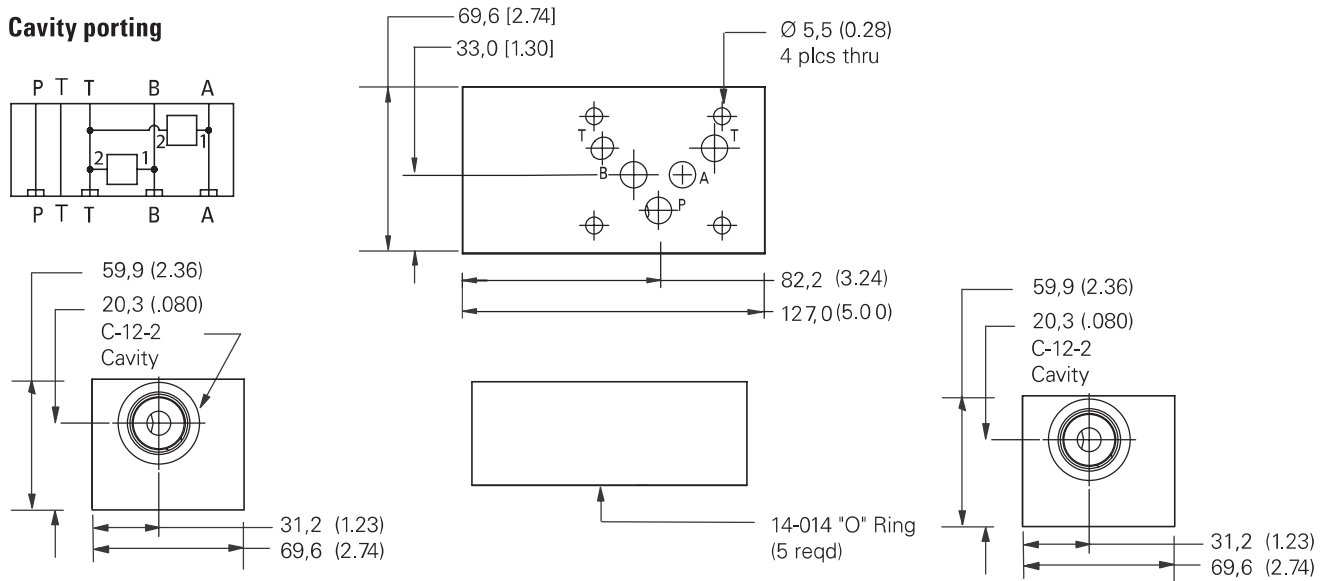
Dimensions

mm (inch)

A512W Housing kit

Part Number 6021184-001

Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

Typical cartridges

Function

RV1-12	Dual relief valve A-T, B-T
RV11-12	Dual relief valve A-T, B-T

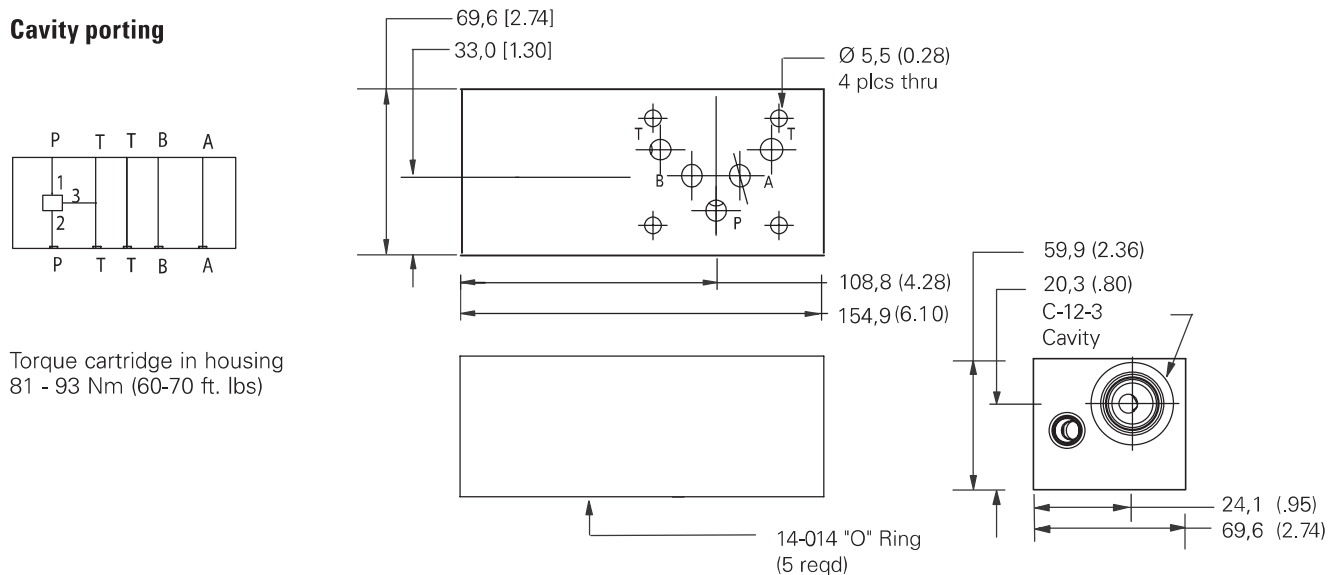
Dimensions

mm (inch)

A526P Housing kit

Part Number 6021158-0 01

Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

Typical cartridges

Function

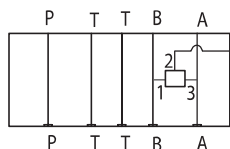
PRV12-12	Reducing valve (P) drained to T
SV11A-12-3	Solenoid 3-way selector P

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Dimensions

mm (inch)

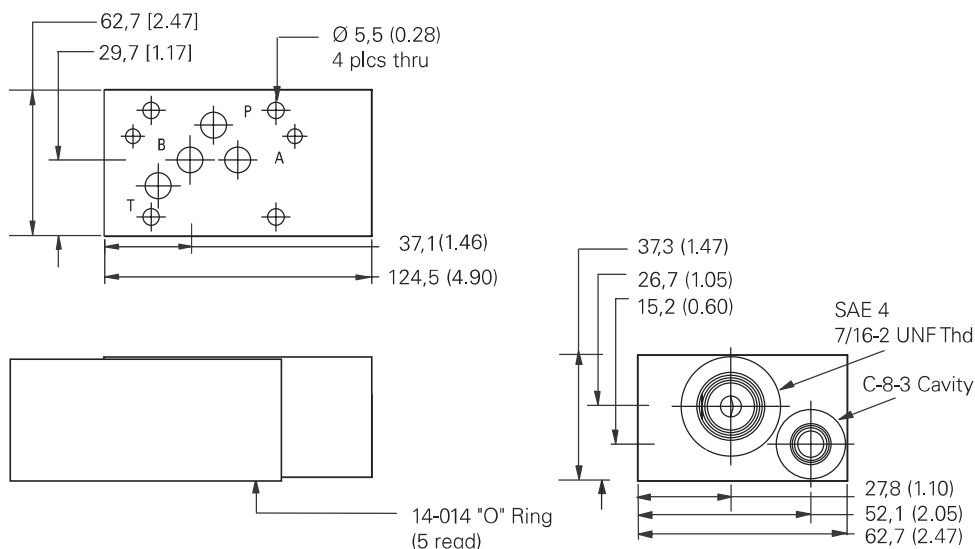
Cavity porting



Torque cartridge in housing
8.1 -13.6 Nm (6-10 ft. lbs)

A509W Housing kit

Part Number 6021189-001



Typical cartridges

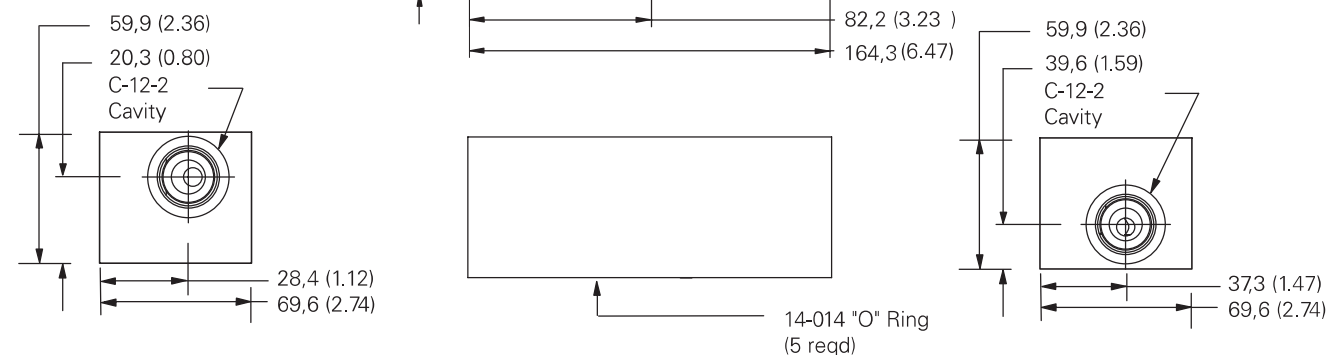
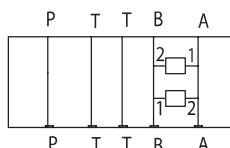
Function

DSV2-8-B-0	Shuttle valve A & B Output external
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Dimensions

mm (inch)

Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

Typical cartridges

Function

RV3-12	Cross port relief valve A & B
RV11-12	Cross port relief valve A & B

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Dimensions

ISO 05/D05/NG Housing kits

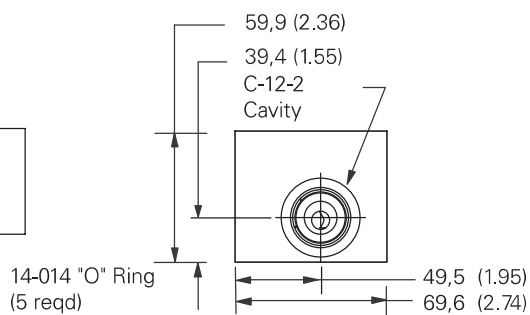
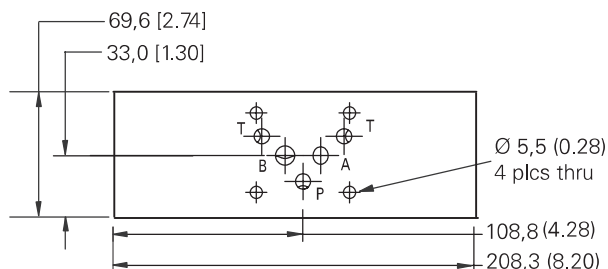
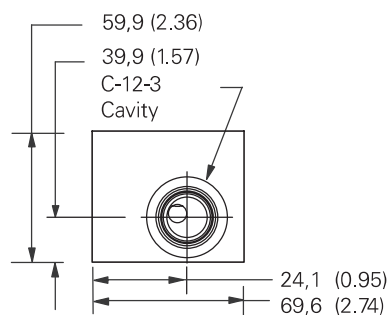
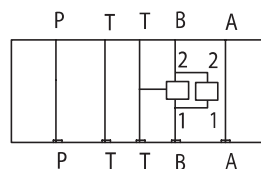
Dimensions

mm (inch)

A510B Housing kit

Part Number 6021352-0 01

Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

Typical cartridges

Function

PRV12-12/CV11-12	Reducing valve (B) drained to T, reverse free-flow check
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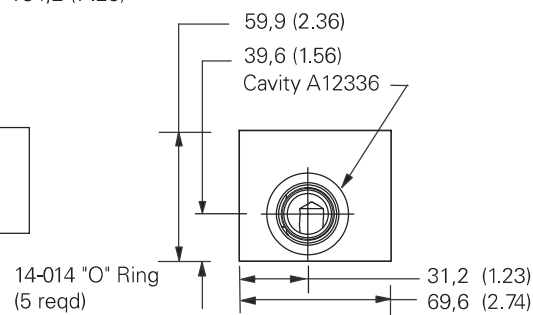
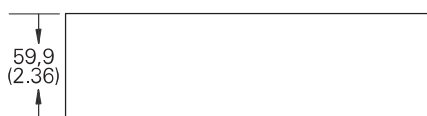
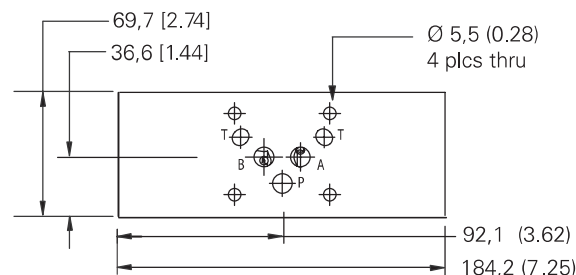
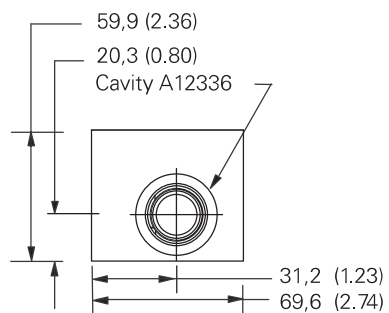
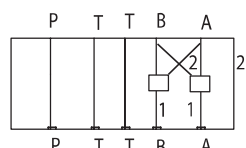
Dimensions

mm (inch)

A523W Housing kit

Part Number 5999906-0 01

Cavity porting



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

Typical cartridges

Function

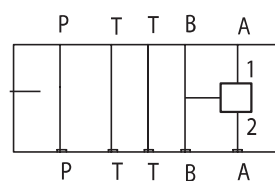
4CK90	Check in A and B Cross Piloted
1CE90	Overcenter in A and B Cross Piloted

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Dimensions

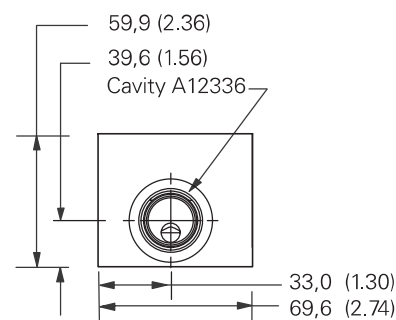
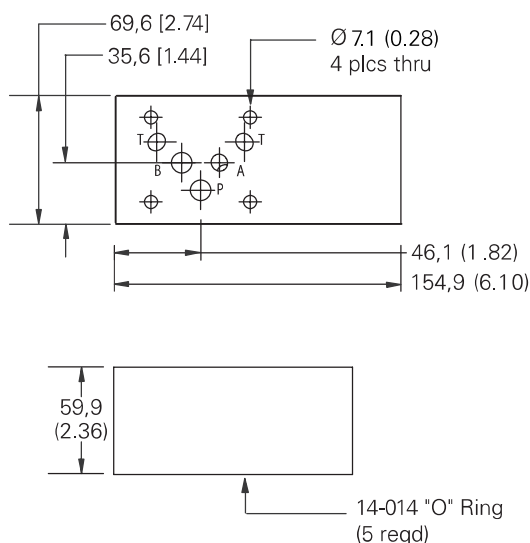
mm (inch)

Cavity porting



A523A Housing kit

Part Number 6021282-0 01



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

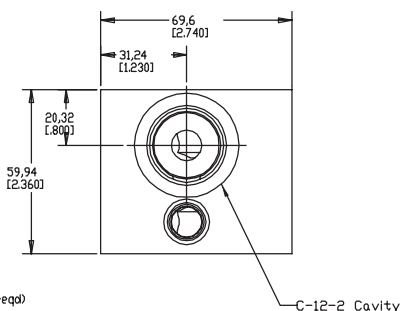
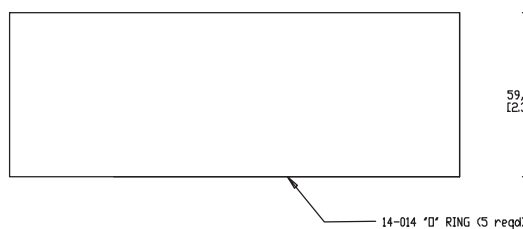
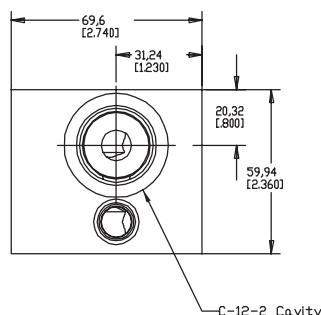
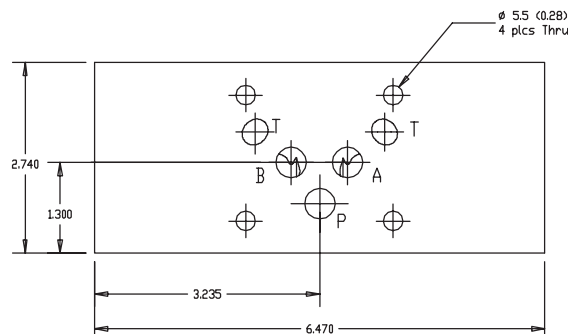
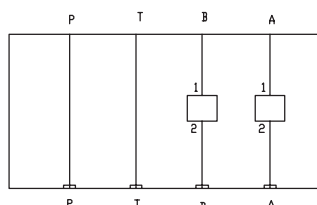
Typical cartridges

Function

4CK90	Check in A and Piloted from B
1CE90	Overcenter A and Piloted from B

Dimensions

mm (inch)



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

Typical cartridges

Function

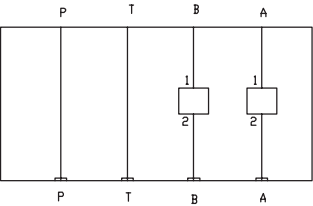
4CK30	PO Check Valve on A and Pilot from B
1CE30	Counterbalance Valve on A and Pilot from B

Dimensions

ISO 05/D05/NG 10/CETOP5 Housing kits

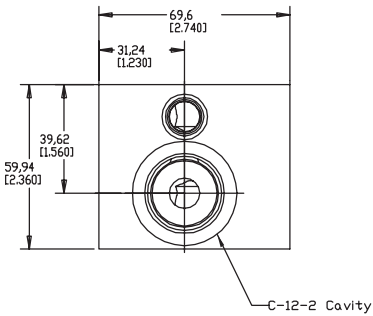
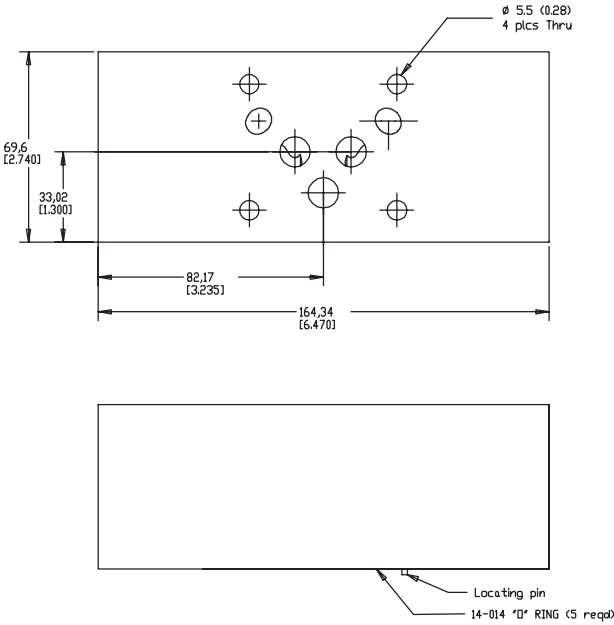
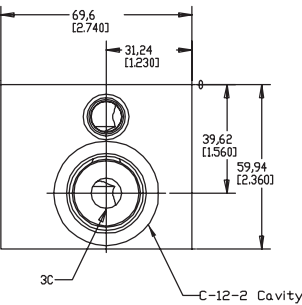
Dimensions

mm (inch)



A524W Housing kit

Part Number 4998389-001



Torque cartridge in housing
81 - 93 Nm (60-70 ft. lbs)

Typical cartridges	Function
4CK90	PO Check Valve on A and Pilot from B
1CE90	Counterbalance Valve on A and Pilot from B