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# **CORROSION RESISTANT CARTRIDGE VALVES**

## **High Strength Stainless Steel External Parts**

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- Corrosion Resistance compares to 316 Stainless Steel.
- Flow capacities to 200 gpm (760 L/min.).  
Pressure rating 5,000 psi (350 bar) all ports.
- Hydraulic Performance matches Sun's standard models.
- Internal Components are Heat Treated Carbon Steel  
for High Strength and Long Wear.
- Ideal for Agricultural, Chemical, Food Processing, Marine, Oil  
and Gas, Power Generation, and Pulp and Paper Industries.



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Visit our web site for current list pricing and complete technical information on Corrosion Resistant Cartridge Valves.

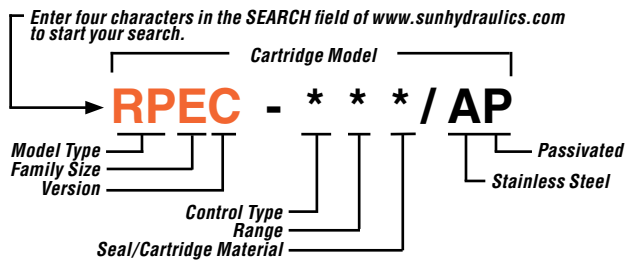
[www.sunhydraulics.com](http://www.sunhydraulics.com)

# CORROSION RESISTANT CARTRIDGE VALVES

## MODEL CODE STRUCTURE

Finding the ideal cartridge valve for your application:

- This brochure summarizes all corrosion resistant cartridge valve models released for production as of 01/01/2010. However, only partial model codes are provided here. Visit our web site for an extensive combination of controls, pressure ranges, and seal materials.
- To select a corrosion resistant cartridge valve and define a complete model code, visit our web site, click **Search**, and enter four characters of any model in the search box to start your search. Then click the link for corrosion resistant products. To browse through a collection of valves, click **Products: Cartridges: Corrosion Resistant: View All Corrosion Resistant Cartridges. . .**



## TECHNICAL FEATURES

- Cartridge valve bodies are Lean Duplex Stainless Steel (UNS S32101, ASTM A240, A276, A479, A789, A790). Threads are treated to minimize the potential for valves to seize to manifolds.
- Adjustment Screws are Titanium (UNS R56400, ASTM Grade 5 Ti-6Al-4V), or Silicon Brass (UNS C69300, ASTM B371, B124, B283). Screws are designed to minimize galling.
- Internal components are Carbon Steel Leaded Alloy (UNS G12144, AISI-SAE 12L14), (UNS G11174, AISI-SAE 11L17), or (UNS G86204, AISI-SAE 86L20).

## NEW PROTECTIVE CAP FOR ADJUSTMENT SCREW

Adjustment screws are corrosion resistant. However, certain aggressive environments may require additional protection from corrosion and biological growth. New protective caps (R Control Type) are available to completely cover adjustment screws.



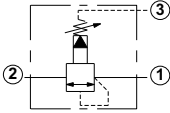
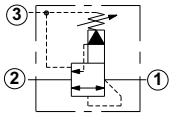
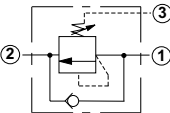
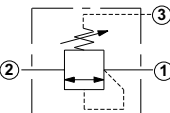
## RELIEF CARTRIDGE VALVES

Description	Symbol	Nominal Capacity	Model	Cavity
Direct-acting relief valve - pilot capacity		.25 gpm (1 L/min.)	<b>RBAC-***/AP</b>	T-10A
		.5 gpm (2 L/min.)	<b>RBAA-***/AP</b>	T-3A
Direct-acting relief valve		25 gpm (95 L/min.)	<b>RDDA-***/AP</b>	T-10A
		50 gpm (200 L/min.)	<b>RDFA-***/AP</b>	T-3A
Pilot operated, balanced piston relief valve		25 gpm (95 L/min.)	<b>RPEC-***/AP</b>	T-10A
		50 gpm (200 L/min.)	<b>RPGC-***/AP</b>	T-3A
		100 gpm (380 L/min.)	<b>RPIC-***/AP</b>	T-16A
		200 gpm (760 L/min.)	<b>RPKC-***/AP</b>	T-18A
Ventable, pilot operated, balanced piston relief valve		15 gpm (60 L/min.)	<b>RVCA-***/AP</b>	T-11A
Kick-down, pilot operated, balanced piston relief valve		25 gpm (95 L/min.)	<b>RQEB-***/AP</b>	T-10A
		50 gpm (200 L/min.)	<b>RQGB-***/AP</b>	T-3A
		100 gpm (380 L/min.)	<b>RQIB-***/AP</b>	T-16A
		200 gpm (760 L/min.)	<b>RQKB-***/AP</b>	T-18A
Pilot operated, balanced poppet relief valve		50 gpm (200 L/min.)	<b>RPGS-***/AP</b>	T-3A
		100 gpm (380 L/min.)	<b>RPIS-***/AP</b>	T-16A
		200 gpm (760 L/min.)	<b>RPKS-***/AP</b>	T-18A
Normally closed modulating element valve with relief function		10 gpm (40 L/min.)	<b>RVCB-***/AP</b>	T-11A

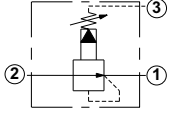
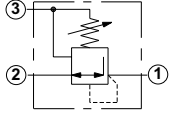
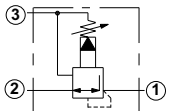
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# CORROSION RESISTANT CARTRIDGE VALVES

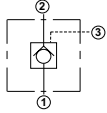
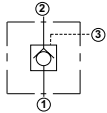
## SEQUENCE CARTRIDGE VALVES

Description	Symbol	Nominal Capacity	Model	Cavity
Pilot operated, balanced piston sequence valve		15 gpm (60 L/min.)	<b>RSDC-***/AP</b>	T-11A
		30 gpm (120 L/min.)	<b>RSFC-***/AP</b>	T-2A
Kick-down, pilot operated, balanced piston sequence valve		15 gpm (60 L/min.)	<b>SQDB-***/AP</b>	T-11A
		30 gpm (120 L/min.)	<b>SQFB-***/AP</b>	T-2A
Direct-acting sequence valve with reverse flow check		15 gpm (60 L/min.)	<b>SCCA-***/AP</b>	T-11A
Direct-acting sequence valve without reverse flow check		15 gpm (60 L/min.)	<b>SXCA-***/AP</b>	T-11A

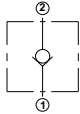
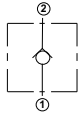
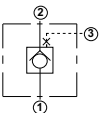
## REDUCING AND REDUCING/RELIEVING CARTRIDGE VALVES

Pilot operated, pressure reducing valve		10 gpm (40 L/min.)	<b>PBDB-***/AP</b>	T-11A
		20 gpm (80 L/min.)	<b>PBFB-***/AP</b>	T-2A
Direct-acting, pressure reducing/relieving valve		10 gpm (40 L/min.)	<b>PRDB-***/AP</b>	T-11A
		40 gpm (160 L/min.)	<b>PRHB-***/AP</b>	T-17A
Pilot operated, pressure reducing/relieving valve		10 gpm (40 L/min.)	<b>PPDB-***/AP</b>	T-11A
		20 gpm (80 L/min.)	<b>PPFB-***/AP</b>	T-2A

## PILOTED OPERATED CHECK CARTRIDGE VALVES

Pilot-to-open check valve with standard pilot		15 gpm (60 L/min.)	<b>CKCB-***/AP</b>	T-11A
		30 gpm (120 L/min.)	<b>CKEB-***/AP</b>	T-2A
		60 gpm (240 L/min.)	<b>CKGB-***/AP</b>	T-17A
		120 gpm (480 L/min.)	<b>CKIB-***/AP</b>	T-19A
Pilot-to-open check valve with sealed pilot		15 gpm (60 L/min.)	<b>CKCD-***/AP</b>	T-11A
		30 gpm (120 L/min.)	<b>CKED-***/AP</b>	T-2A
		60 gpm (240 L/min.)	<b>CKGD-***/AP</b>	T-17A
		120 gpm (480 L/min.)	<b>CKID-***/AP</b>	T-19A

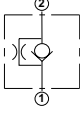
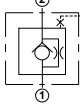
## CHECK CARTRIDGE VALVES

Free flow nose-to-side check valve		20 gpm (80 L/min.)	<b>CXDA-***/AP</b>	T-13A
		40 gpm (160 L/min.)	<b>CXFA-***/AP</b>	T-5A
		80 gpm (320 L/min.)	<b>CXHA-***/AP</b>	T-16A
		160 gpm (640 L/min.)	<b>CXJA-***/AP</b>	T-18A
Free flow side-to-nose check valve		15 gpm (60 L/min.)	<b>CXCD-***/AP</b>	T-13A
		60 gpm (240 L/min.)	<b>CXGD-***/AP</b>	T-16A
Free flow side-to-nose check valve with port 3 blocked		15 gpm (60 L/min.)	<b>CXCE-***/AP</b>	T-11A
		30 gpm (120 L/min.)	<b>CXEE-***/AP</b>	T-2A
		60 gpm (240 L/min.)	<b>CXGE-***/AP</b>	T-17A
		120 gpm (480 L/min.)	<b>CXIE-***/AP</b>	T-19A

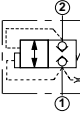
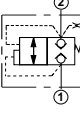
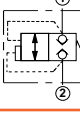
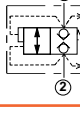
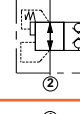
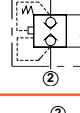
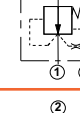
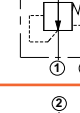
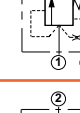
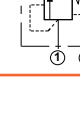
Check Cartridge Valves continued on following page.

# CORROSION RESISTANT CARTRIDGE VALVES

## CHECK CARTRIDGE VALVES continued

Description	Symbol	Nominal Capacity	Model	Cavity
Free flow nose-to-side check valve with bypass orifice		15 gpm (60 L/min.)	CNDC-***/AP	T-13A
		30 gpm (20 L/min.)	CNFC-***/AP	T-5A
		60 gpm (240 L/min.)	CNHC-***/AP	T-16A
		120 gpm (480 L/min.)	CNJC-***/AP	T-18A
Free flow side-to-nose check valve with bypass orifice and port 3 blocked		15 gpm (60 L/min.)	CNCD-***/AP	T-11A
		30 gpm (120 L/min.)	CNED-***/AP	T-2A
		60 gpm (240 L/min.)	CNGD-***/AP	T-17A
		120 gpm (480 L/min.)	CNID-***/AP	T-19A

## LOGIC ELEMENTS

Description	Symbol	Nominal Capacity	Model	Cavity
Vent-to-open, spring biased closed, unbalanced poppet logic element with pilot source from port 1		25 gpm (95 L/min.)	LODA-***/AP	T-11A
		50 gpm (200 L/min.)	LOFA-***/AP	T-2A
		100 gpm (380 L/min.)	LOHA-***/AP	T-17A
		200 gpm (760 L/min.)	LOJA-***/AP	T-19A
Vent-to-open, spring biased closed, unbalanced poppet logic element with pilot source from port 2		25 gpm (95 L/min.)	LODB-***/AP	T-11A
		50 gpm (200 L/min.)	LOFB-***/AP	T-2A
		100 gpm (380 L/min.)	LOHB-***/AP	T-17A
		200 gpm (760 L/min.)	LOJB-***/AP	T-19A
Pilot-to-close, spring biased closed, unbalanced poppet logic element		25 gpm (95 L/min.)	LODC-***/AP	T-11A
		50 gpm (200 L/min.)	LOFC-***/AP	T-2A
		100 gpm (380 L/min.)	LOHC-***/AP	T-17A
		200 gpm (760 L/min.)	LOJC-***/AP	T-19A
Vent-to-open, spring biased closed, unbalanced poppet logic element with pilot source from port 1 or 2		25 gpm (95 L/min.)	LODD-***/AP	T-11A
		50 gpm (200 L/min.)	LOFD-***/AP	T-2A
		100 gpm (380 L/min.)	LOHD-***/AP	T-17A
		200 gpm (760 L/min.)	LOJD-***/AP	T-19A
Pilot-to-close, spring biased open, unbalanced poppet logic element		25 gpm (95 L/min.)	LODO-***/AP	T-11A
		50 gpm (200 L/min.)	LOFO-***/AP	T-2A
		100 gpm (380 L/min.)	LOHO-***/AP	T-17A
		200 gpm (760 L/min.)	LOJO-***/AP	T-19A
Pilot-to-open, spring biased closed, unbalanced poppet logic element		15 gpm (60 L/min.)	LKDC-***/AP	T-11A
		30 gpm (120 L/min.)	LKFC-***/AP	T-2A
		60 gpm (240 L/min.)	LKHC-***/AP	T-17A
		120 gpm (480 L/min.)	LKJC-***/AP	T-19A
Normally open, modulating element with pilot source from port 1		15 gpm (60 L/min.)	LPDA-***/AP	T-11A
		30 gpm (120 L/min.)	LPFA-***/AP	T-2A
		60 gpm (240 L/min.)	LPHA-***/AP	T-17A
		120 gpm (480 L/min.)	LPJA-***/AP	T-19A
Normally open, modulating element		15 gpm (60 L/min.)	LPDC-***/AP	T-11A
		30 gpm (120 L/min.)	LPFC-***/AP	T-2A
		60 gpm (240 L/min.)	LPHC-***/AP	T-17A
		120 gpm (480 L/min.)	LPJC-***/AP	T-19A
Normally closed, modulating element with pilot source from port 1		15 gpm (60 L/min.)	LRDA-***/AP	T-11A
		30 gpm (120 L/min.)	LRFA-***/AP	T-2A
		60 gpm (240 L/min.)	LRHA-***/AP	T-17A
		120 gpm (480 L/min.)	LRJA-***/AP	T-19A
Normally closed, modulating element		15 gpm (60 L/min.)	LRDC-***/AP	T-11A
		30 gpm (120 L/min.)	LRFC-***/AP	T-2A
		60 gpm (240 L/min.)	LRHC-***/AP	T-17A
		120 gpm (480 L/min.)	LRJC-***/AP	T-19A

# CORROSION RESISTANT CARTRIDGE VALVES

## COUNTERBALANCE VALVES

Counterbalance valves are grouped below by their pressure drop and vent characteristics.

### PRESSURE DROP CHARACTERISTICS

For a given cavity size:

- **Standard capacity** valves have the lowest pressure drop for a given flow.
- **Semi-restrictive** valves have a higher pressure drop, resulting in better modulation at lower flows.
- **Restrictive** counterbalance valves have the highest pressure drop, resulting in the best modulation at lowest flows.

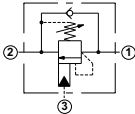
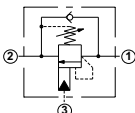
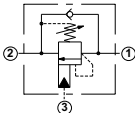
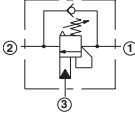
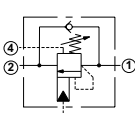
### VENT CHARACTERISTICS

Sun offers two types of vented valves so the effect of back pressure can be eliminated.

- Spring chambers of atmospherically referenced valves vent to the open environment. Some leakage of hydraulic fluid may be expected from the vents, and spring chambers may become contaminated over time.
- Four port valves allow spring chambers to be vented through hose or tubing to circuit drains.

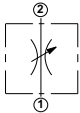
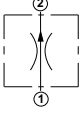
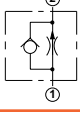
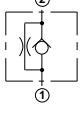
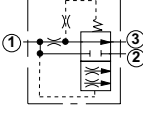
Typical machines are a complex mixture of numerous mass/spring relationships, which may interact to cause instability, and varying back pressure may cause instability. More restrictive valves and lower pilot ratios, or a combination of both may address stability issues, as may venting.

Visit [www.sunhydraulics.com](http://www.sunhydraulics.com) for more information about counterbalance valves. See the Technical Tip, **Load Control and Motion Control Cartridge Valves: Counterbalance and Pilot-to-Open Checks**.

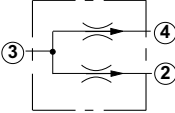
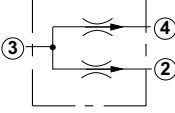
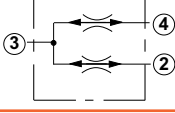
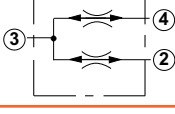
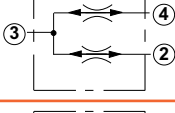
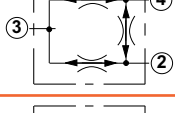
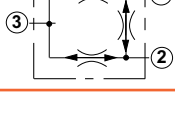
COUNTERBALANCE CARTRIDGE VALVES					
Description	Symbol	Model			Pilot Ratio
		T-11A Cavity	T-2A Cavity	T-17A Cavity	
<i>Nominal Capacity</i>					
Standard capacity counterbalance valve		15 gpm (60 L/min.)	30 gpm (120 L/min.)	60 gpm (240 L/min.)	
		CBCB-***/AP	CBEB-***/AP	CBGB-***/AP	1.5:1
		CBCY-***/AP	CBEY-***/AP	CBGY-***/AP	2:1
		CBCL-***/AP	CBEL-***/AP	CBGL-***/AP	2.3:1
		CBCA-***/AP	CBEA-***/AP	CBGA-***/AP	3:1
		CBCG-***/AP	CBEG-***/AP	CBGG-***/AP	4.5:1
		CBCH-***/AP	CBEH-***/AP	CBGH-***/AP	10:1
Semi-restrictive counterbalance valve		10 gpm (40 L/min.)	20 gpm (80 L/min.)	40 gpm (160 L/min.)	
		CBBB-***/AP	CBDB-***/AP	CBFB-***/AP	1.5:1
		CBBL-***/AP	CBDL-***/AP	CBFL-***/AP	2.3:1
		CBBC-***/AP	CBDC-***/AP	CBFC-***/AP	3:1
		CBBD-***/AP	CBDD-***/AP	CBFD-***/AP	4.5:1
Restrictive counterbalance valve		5 gpm (20 L/min.)	8 gpm (30 L/min.)	15 gpm (60 L/min.)	
		CBBY-***/AP			2:1
		CBBA-***/AP	CBDA-***/AP	CBFA-***/AP	3:1
		CBBG-***/AP	CBDG-***/AP	CBFG-***/AP	4.5:1
Vented counterbalance valve - atmospherically referenced		15 gpm (60 L/min.)	30 gpm (120 L/min.)	60 gpm (240 L/min.)	
		CACK-***/AP	CAEK-***/AP	CAGK-***/AP	1:1
		CACL-***/AP	CAEL-***/AP	CAGL-***/AP	2:1
		CACA-***/AP	CAEA-***/AP	CAGA-***/AP	3:1
		CACG-***/AP	CAEG-***/AP	CAGG-***/AP	5:1
Vented counterbalance valve		T-21A Cavity			
		15 gpm (60 L/min.)			
		CWCK-***/AP			1:1
		CWCL-***/AP			2:1
		CWCA-***/AP			3:1
CWCG-***/AP			5:1		

# CORROSION RESISTANT CARTRIDGE VALVES

## FLOW CONTROL / PRIORITY FLOW CONTROL CARTRIDGE VALVES

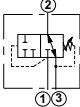
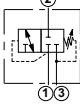
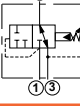
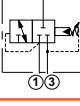
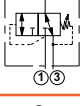
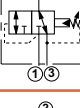
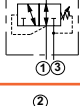
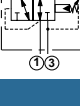
Description	Symbol	Nominal Capacity	Model	Cavity
Fully adjustable needle valve		.50 in. (12,7 mm) dia.	NFDD-***/AP	T-5A
Fixed orifice, pressure compensated flow control valve		.1-6 gpm (0,4-23 L/min.) .1-12 gpm (0,4-50 L/min.) .2-25 gpm (0,8-100 L/min.)	FXCA-***/AP FXDA-***/AP FXEA-***/AP	T-13A T-5A T-16A
Fixed orifice pressure compensated flow control valve with reverse flow check		.1-6 gpm (0,4-23 L/min.) .1-12 gpm (0,4-50 L/min.) .2-25 gpm (0,8-100 L/min.)	FCCB-***/AP FCDB-***/AP FCEB-***/AP	T-13A T-5A T-16A
Fixed orifice, non-pressure compensated, flow control valve with reverse flow check		15 gpm (60 L/min.) 60 gpm (240 L/min.)	CNCC-***/AP CNGC-***/AP	T-13A T-16A
Fixed orifice, bypass/restrictive, priority, flow control valve		.1-6 gpm (0,4-23 L/min.) .1-12 gpm (0,4-45 L/min.)	FRCA-***/AP FRDA-***/AP	T-11A T-2A

## FLOW DIVIDER / COMBINER CARTRIDGE VALVES

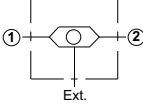
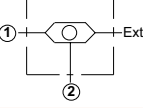
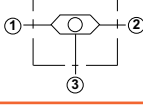
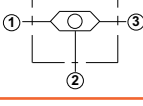
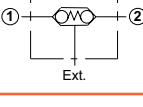
Flow divider valve		1.5-8 gpm (6-30 L/min.)	FSCD-***/AP	T-31A
High accuracy flow divider valve		.6-3 gpm (2,5-12 L/min.)	FSBD-***/AP	T-31A
Closed center, flow divider-combiner valve		1.5-8 gpm (6-30 L/min.)	FSCA-***/AP	T-31A
High accuracy closed center, flow divider-combiner valve		.6-3 gpm (2,5-12 L/min.)	FSBA-***/AP	T-31A
High capacity, closed center, flow divider-combiner valve		2-10 gpm (8-40 L/min.)	FSCH-***/AP	T-31A
Synchronizing, flow divider-combiner valve		1.5-8 gpm (6-30 L/min.)	FSCS-***/AP	T-31A
High accuracy synchronizing, flow divider-combiner valve		.3-1.5 gpm (1-6 L/min.) .6-3 gpm (2,5-12 L/min.)	FSAS-***/AP FSBS-***/AP	T-31A T-31A

# CORROSION RESISTANT CARTRIDGE VALVES

## DIRECTIONAL CARTRIDGE VALVES

Description	Symbol	Nominal Capacity	Model	Cavity
2-way, direct-acting, directional valve with internal drain to port 3 - normally open		7 gpm (28 L/min.)	DRBA-***/AP	T-11A
2-way, direct-acting, directional valve with internal drain to port 3 - normally closed		7 gpm (28 L/min.)	DRBB-***/AP	T-11A
2-way, pilot operated, directional valve with internal drain to port 3 - normally open		7 gpm (28 L/min.) 15 gpm (60 L/min.)	DPBA-***/AP DPCA-***/AP	T-11A T-2A
2-way, pilot operated, directional valve with internal drain to port 3 - normally closed		7 gpm (28 L/min.) 15 gpm (60 L/min.)	DPBB-***/AP DPCB-***/AP	T-11A T-2A
2-position, 3-way, direct-acting, directional valve with internal drain to port 3 (1 blocked, 2 to 3 open)		7 gpm (28 L/min.)	DRBC-***/AP	T-11A
2-position, 3-way, pilot operated, directional valve with internal drain to port 3 (1 blocked, 2 to 3 open)		7 gpm (28 L/min.) 15 gpm (60 L/min.)	DPBC-***/AP DPCC-***/AP	T-11A T-2A
2-position, 3-way, direct-acting, directional valve with internal drain to port 3 (1 to 2 open, 3 blocked)		7 gpm (28 L/min.)	DRBD-***/AP	T-11A
2-position, 3-way, pilot operated, directional valve with internal drain to port 3 (1 to 2 open, 3 blocked)		7 gpm (28 L/min.) 15 gpm (60 L/min.)	DPBD-***/AP DPCD-***/AP	T-11A T-2A

## SHUTTLE CARTRIDGE VALVES

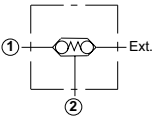
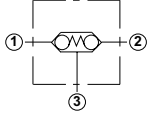
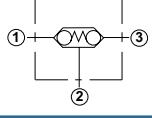
Single ball shuttle valve with signal external		2.5 gpm (10 L/min.)	CSAA-***/AP	T-13A
Single ball shuttle valve with signal at port 2		2.5 gpm (10 L/min.)	CSAC-***/AP	T-13A
Single ball shuttle valve with signal at port 3		2.5 gpm (10 L/min.)	CSAB-***/AP	T-11A
Single ball shuttle valve with signal at port 2		2.5 gpm (10 L/min.)	CSAD-***/AP	T-11A
Back-to-back check/shuttle valve with signal external		2.5 gpm (10 L/min.)	CDA-***/AP	T-13A

Shuttle Cartridge Valves continued on following page.

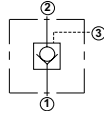
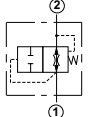
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# CORROSION RESISTANT CARTRIDGE VALVES

## SHUTTLE CARTRIDGE VALVES continued

Description	Symbol	Nominal Capacity	Model	Cavity
Back-to-back check/shuttle valve with signal at port 2		2.5 gpm (10 L/min.)	CDAC-***/AP	T-13A
Back-to-back check/shuttle valve with signal at port 3		2.5 gpm (10 L/min.)	CDAB-***/AP	T-11A
Back-to-back check/shuttle valve with signal at port 2		2.5 gpm (10 L/min.)	CDAD-***/AP	T-11A

## CIRCUIT SAVERS

Pilot-to-close check valve		20 gpm (80 L/min.)	CODA-***/AP	T-11A
		40 gpm (160 L/min.)	COFA-***/AP	T-2A
		80 gpm (320 L/min.)	COHA-***/AP	T-17A
		160 gpm (640 L/min.)	COJA-***/AP	T-19A
Fixed orifice, flow fuse valve		1-15 gpm (4-60 L/min.)	FQEA-***/AP	T-5A

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Email: suninfo@sunhydraulics.com

### SUN HYDRAULICS CORPORATION

701 Tallevast Road, Sarasota, Florida 34243 \* Tel: +1-941-362-1300 \* Fax: +1-941-362-1349  
Email: suninfo@sunhydraulics.com

### SUN HYDRAULICS CORPORATION

10645 Lackman Road, Lenexa, Kansas 66219 \* Tel: +1-913-307-9090 \* Fax: +1-913-307-9095  
Email: suninfo@sunhydraulics.com

### SUN HYDRAULICS LIMITED

Wheler Road, Coventry CV3 4LA England \* Tel: +44 (0) 2476-217-400 \* Fax: +44 (0) 2476-217-488  
Email: sales@sunuk.com

### SUN HYDRAULIK GmbH

Brusseler Allee 2, D-41812 Erkelenz, BRD \* Tel: +49 (0) 2431-8091-0 \* Fax: +49 (0) 2431-8091-19  
Email: sales@sunhydraulik.de

### SUN HYDRAULICS SARL

Parc Innolin, 6 rue du Golf, 33700 Merignac, France \* Tel: +33 (0) 557-291-529 \* Fax: +33 (0) 557-291-857  
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### SUN HYDRAULICS KOREA CORPORATION

97B 13L Namdong Industrial Complex, 664-12 Gojan Dong, Namdong Gu, Incheon 405-310, Korea  
Tel: +82-32-813-1350 \* Fax: +82-32-813-1147 \* Email: sales@sunhydraulics.co.kr

### SUN HYDRAULICS SYSTEMS (Shanghai) CO., LTD.

No. 339 Rong Xing Road, Zhongshan Street, Songjiang, Shanghai, China  
Tel: +86-21-5778-0778 \* Fax: +86-21-5778-0768 \* Email: sunchina@online.sh.cn

### SUN HYDRAULICS CORPORATION (India)

No. 1, 1st Main Road, Munnekolala Extension, Marathahalli Outer Ring Road, Bangalore 560 037, India  
Tel: +91-80-2523-6325 \* Fax: +91-80-2523-1855 \* Email: reddy@sunhydraulics.com