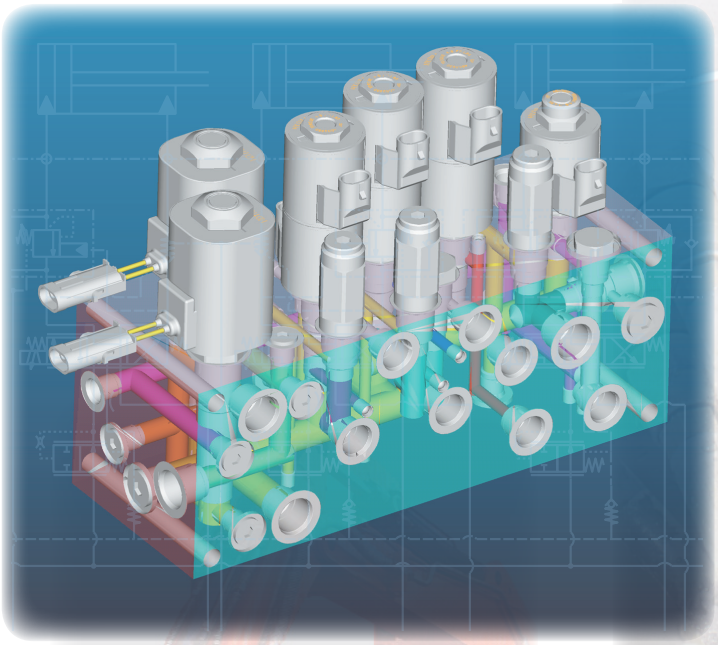
Ürün Rehberi

HydraForce

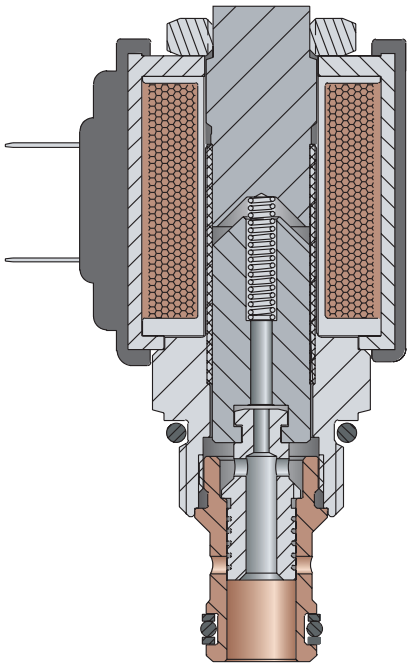


Hidrolik Cartridge Valfler
Manifold Sistemler
Elektronik Kontroller

www.hydraforce.com

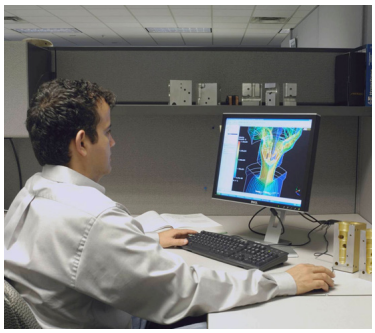
Geniş Ürün Çeşitliliği

HydraForce, yüksek performanslı hidrolik cartridge valfler, montajlı bloklar ve elektronik kontrol sistemleri konusunda endüstrinin geniş alanında hizmet vermektedir. Standart ürünlerimiz 379 lpm/ 100 gpm geçirgenliğe ve 420 bar/6090 psi çalışma basıncına kadar yön kontrol, basınç ve akış kontrol valfleri içermektedir.



Yenilikçi Mühendislik

HydraForce oransal ve elektro-oransal hidrolik valfler ve kontrol sistemlerinin gelişmesinde öncü olmayı sürdürmektedir. Bununla birlikte ürün ailesini geliştirerek çok fonksiyonlu valfler ile düşük maliyetli daha kompakt hidrolik devreler sunmaktadır. Mühendislerimiz, yenilikçi, kaliteli, düşük maliyetli valf dizaynları ve uygulama çözümleri sunmaktadır.

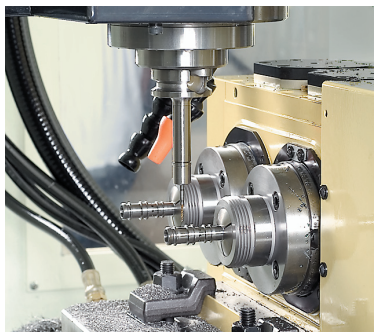


En Son Teknoloji

HydraForce şimdi J1939 ve CAN Data Link kontrol devresi ile ortak, çeşitli makine fonksiyonlarının entegre edildiği, tüm hatları ile elektronik araçları kontrol ürünleri sunmaktadır.

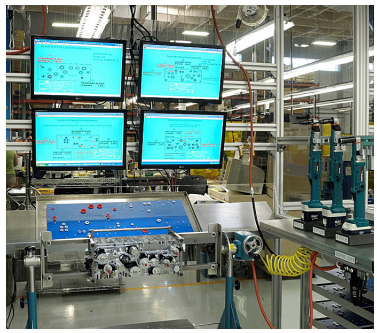
Kalite ve Güvenilirlik

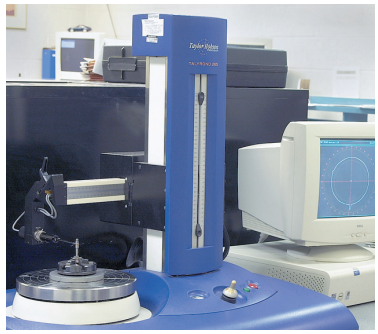
Hydraforce ürünlerinin dayanıklılığı ve performansı arazi dışındaki zor çalışma koşullarında, malzemelerin taşınmasında ve mobil ekipman uygulamaları esnasında güvenilirliği sağlamak açısından uygundur. Ayrıca, valfler ve montajlı bloklar uyumluluğu ve güvenilirliğini sağlamak için sevk edilmeden önce %100 test yapılır. Valf parçaları en gelişmiş CNC tezgahlarında en uygun toleranslar içinde işlenir. Hydraforce dünya çapında çok sayıda üretici tarafından en iyi ürün kalitesi ve güvenilirliği, zamanında teslimat ve dünya çapında teknik standartlar sahip olduğu sertifikalandırılarak ve tanınmaktadır.

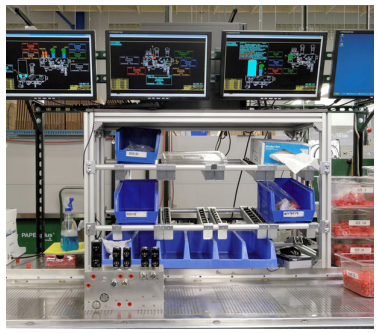


Dünya Çapında Destek

Hydraforce ürünleri nitelikli ve tecrübeli fabrikadaki uygulama mühendisleri ve müşteri destek uzmanları tarafından desteklenen distribütörler ile servisi sağlanmaktadır.

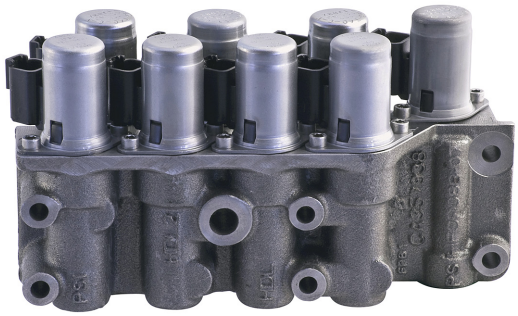


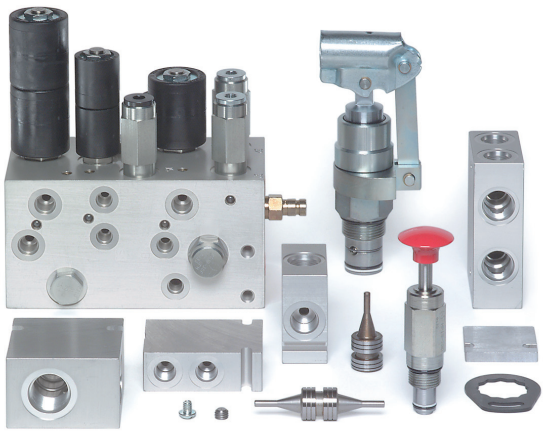




® Telif hakları 2010 HydraForce A.Ş. ne aittir. Tüm hakları saklıdır. HydraForce ve Hydraforce Logosu HydraForce A.Ş. nin tescilli markalarıdır.

Özel Manifoldlar, Yardımcı Parçalar ve Elektronik Kontroller





Sistem Uygulamalarında Uzmanlık

Özel manifoldlar makine üzerindeki hidrolik sisteminin birden çok görevini bir araya getirerek sistemi iyileştirir. Horum, boru, vb. gibi dış bağlantılar azaltılır. Montaj ve bakım süreleri azaltılır. Valf değişiklikleri hızlı ve kolay bir şekilde yapılmasını sağlar. Bütün manifold sistemleri sistem ve görev olarak %100 test edilirler. HydraForce geniş bir alanda müşterilerin özel isteğine uygun valfler, manifoldlar elektro-hidrolik sistemler üretmektedir.

- Çelik, alüminyum, dökme ve dövme çelik manifold bloklar.
- Kötü çevre koşullarından korumak için eloksal veya çinko kaplama.
- Standart valf cavitileri.
- Bağlantı ekipmanları, CETOP valfler ve yardımcı ekipmanlar isteğe uygun şekilde montajı yapılır.
- “FastTrak” servisi ile prototip çalışmaları için hızlı teslimat.
- Ücretsiz i-Design Hidrolik Sistem Dizayn programı.

Valf Blokları

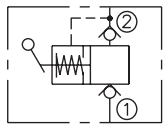
Tek cavity li bloklar endüstrinin ortak kullandığı standart ölçülere bağlı olarak çok çeşitli port ölçülerinde işlenir. Eloksal kaplı alüminyum blokların çalışma basıncları 240 bar (3500 psi), çelik ve dövme demir bloklar 345 bar (5000 psi) yüksek basınca ulaşan hidrolik sistemler için kullanılabilir.

Özel Manifold Yardımcı Parçaları

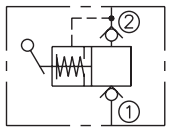
Bir manifold için gerekli olan tüm yardımcı parçalar stoklarımızda mevcuttur: cavity tapaları, orifisler, port tapaları, pilot pistonlar, cartridge valf kormaları. Bunların yanında cavity form ve finishing takımları.

El Pompaları

Model HP10-20



Modeller HPxx-21



HydraForce Valf Ölçüsü	Cavity Diş Ölçüsü
04	7/16–20UNF–2B
07	5/8–18UNF–2B
08, 38, 58, 98	3/4–16UNF–2B
10, 50, 70	7/8–14UNF–2B
12, 52, 72	1-1/16–12UN–2B
16, 76	1-5/16–12UN–2B
20	1-5/8–12UN–2B
42	M42 x 2,0–6H

Ağır Çalışma Koşulları İçin Elektronik Kontroller ve Komple Makine Kontrol Sistemleri

HydraForce arazi, malzeme taşıma ve endüstriyel uygulamalarda araç için joystik, shifter, sensörler, izleyiciler, ekranlar ve elektriksel bağlantı parçalarının entegre edilmiş mobil uygulama kontrol sistemleri gibi gerekli olan tüm parçaları sunmaktadır.

- Sağlam ve güvenilir en zorlu mobil ekipman uygulamaları.
- -40°C - 110°C sıcaklıkları arasında çalışabilme.
- Kimyasal çarpılmaya dayanıklı.
- IP67 özelliklerine uygun nem direnci.
- EMI/RFI ya tam dayanıklılık.
- Titreşime 8 Grms (rasgele) 24-200 Hz, 3 eksen dayanıklılık.
- Global yglama için CE sertifikası.

YENİ HyPerformance Yüksek Basınçlı Cartridge Valfler

ÖZELLİKLER:

- **350 bar/ 5075 psi sürekli çalışma basıncı.**
- **420 bar/6090 psi %10 aralıklarda görev testi.**
- **420 bar/6090 psi basıncda 2 milyon döngüde yorgunluk testi.**
- **379 lpm/100 gpm ye kadar geçirgenlik.**
- **1000 saat tuz testi.**
- **IP69K ya uygun solenoid bobinler.**
- **135°C (275°F) de tek parça PPDI üretan contalar ile yüksek direnç.**
- **20 G RMS titreşim testi (3 eksen)**

H Serisi Yüksek Basınç Valfleri
Sürekli çalışma basıncı 350 bar / 5075 psi

Bu valfler endüstrinin ihtiyacı olan en yüksek valf performansını sunmak, önemli görevlerde çalışan cartridge valf uygulamalarında en yüksek güvenilirliğini sağlamak, yüksek devir ve yüksek basınçlı makine uygulamarında ullanılmak için dizayn edilmiştir.

FAYDALAR

Yüksek montaj torku zor çalışma koşulları altında güvenilirliği arttırır.

Tek parça üretan contaların kullanılması ile back-up contalar kullanılmayarak montajı kolaylığını iyileştirir. Opsiyonel olarak fluro-karbon contalar ile back-up contaları kullanılır.

Cavitylerin alt desteklerinin düzenlenmesi ile valflerin sağlamlığı arttırılmış ve montaj esnasında burkulma veya sarma önlenmektedir. Böylelikle valfin doğru bir şekilde montajlanması ve uygun performans elde edilmektedir.

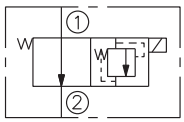
Tüm yüksek performans ürünleri NFPA T 2.6.1. standardına göre 900K döngüde 350 Bar/5085 psi basınçda ve 100K döngüde 420 bar/6090 psi basınçda makinanızın çalışma süresi boyunca çalışması ve mükemmel performans sergilemesi için test edilirler.

YENİ Çok Fonksiyonlu Cartridge Valfler

Birçok valf özellikliği tek bir cartridge de toplanarak, manifold üzerindeki bazı cavity leri ve içindeki patlama deliklerini aza indirerek, manifold dış ölçüleride azaltılır. Böylelikle ağırlık, malzeme, işleme süresi ve ortlaama sistem maliyetini de azaltır.

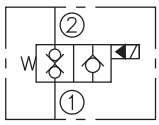
Spool Tip, 2 yollu, Basınç Ayar Valfli

Normalde Açık
Model SVRV10-26

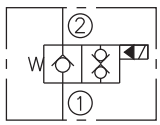


Popet Tip, Çift Taraflı Çekvalf, Çekvalfli

Normalde Kapalı
Model SVCV08-20

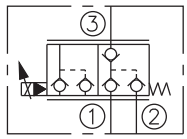


Normalde Açık
Model SVCV08-21

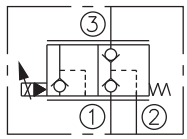


Oransal Çekvalfli Yön Valfi

N.K. Çekvalfli-Yük Uyarısız
Model SPCL10-30

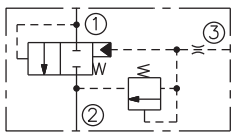


N.K. Yük Uyarılı
Model SPCL10-32



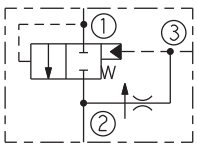
Pilot Uyarılı Logic Valf ve Basınç Ayar Valfi

Model ECR16-S35



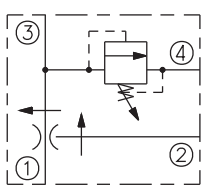
Basınç Dengeli Logic Valf ve Akış Ayar Valfi

Modeller EPFRxx-(s)35



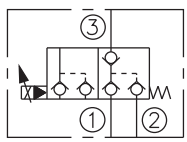
Akış Ayar ve Basınç Ayar Valfi

Öncelikli Tip
Modeller FRRVxx-41F



Aç/Kapa Çekvalfli Yön Kontrol Valfi

N.K. Çekvalfli-Yük Uyarısız
Model SVCL10-30

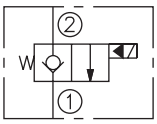


Solenoid Uyarılı Aç/Kapa Valfleri

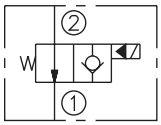
- **Sürekli çalışabilen, çok geniş voltaj aralıkları, bağlantı şekilli ve diyot seçenekli bobinler.**
- **Düşük voltaj, yüksek ve düşük sıcaklıklarda ve zorlu ve değişik çevre koşullarında çalışması için dizayn edilmiştir.**
- **Standart cavity ölçüleri -07, -08, -10, -12, -16, -20, böylelikle blok çeşitlerini azaltma.**
- **Su ve havaya dirençli birleşik bağlantılı IP69K ya uygun "E" serisi bobinler.**
- **Birçok modelde elle kumanda seçeneği.**

Popet Tip, 2 Yollu Valfler

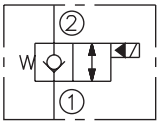
Normalde Kapalı
Modeller SVxx-20, SF08-20



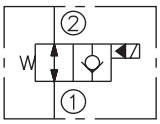
Normalde Açık
Modeller SVxx-21, SF08-21



Normalde Kapalı
Geri Akış Serbest
Modeller SVxx-22, SL08-22
ve SFxx-22

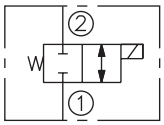


Normalde Açık
Geri Akış Serbest
Modeller SVxx-23, SFxx-23

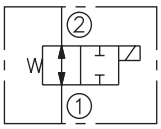


Spool Tip, 2 Yollu Valfler

Normalde Kapalı
Modeller SVxx-24

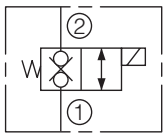


Normalde Açık
Modeller SVxx-25

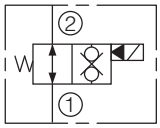


Popet Tip, 2 Yollu Kilitleme Valfleri

Normalde Kapalı
Modeller SVxx-26, SVxx-28

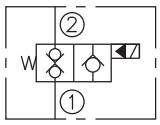


Normalde Açık
Modeller SVxx-29

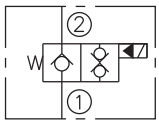


Popet Tip, 2 Yollu Kilitleme Valfleri (devamı)

Normalde Kapalı
Çıkış Çekvalfli
Model SVCV08-20
Çok Fonksiyonlu

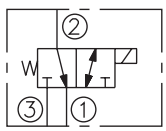


Normalde Açık
Çıkış Çekvalfli
Model SVCV08-21
Çok Fonksiyonlu

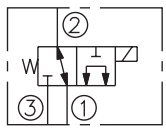


Spool Tip, 3 Yollu Valfler

Model SVxx-30

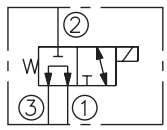


Modeller SVxx-31

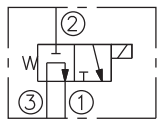


Spool Tip, 3 Yollu Valfler (devamı)

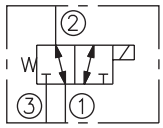
Modeller SV08-33, SV12-33



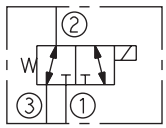
Model SV10-33



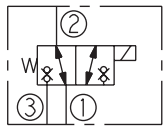
Modeller SVxx-34



Modeller SVxx-35



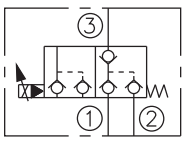
Model SV38-38



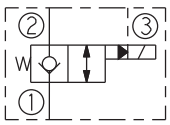
Solenoid Uyarılı Aç/Kapa Valfleri

Popet Tip, 3 Yollu Kilitleme Valfleri

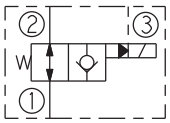
Normalde Kapalı Çekvalfli-Yük Uyarısız
Model SVCL10-30
Çok Fonsiyonlu



Normalde Kapalı
Model SV20-S38

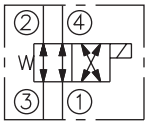


Normalde Açık
Model SV20-S39

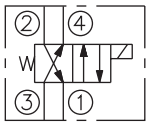


Spool Tip, 4 Yollu, 2 Konumlu Valfler

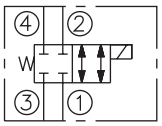
Model SVxx-40



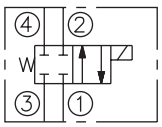
Model SV12-40R



Modeller SVxx-41

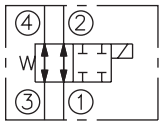


Model SV12-41

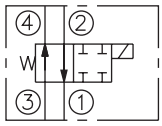


Spool Tip, 4 yollu, 2 Konumlu Valfler (devamı)

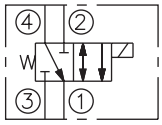
Modeller SV08-42, SV10-42



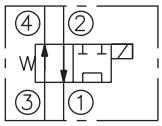
Model SV12-42



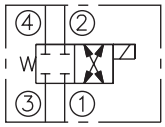
Modeller SVxx-43



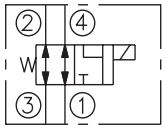
Modeller SVxx-44



Model SV08-45

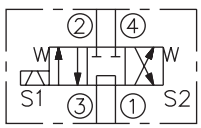


Model SV08-46

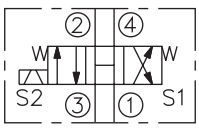


Spool Tip, 4 Yollu, 3 Konumlu Valfler

P-T Açık Merkez
Modeller SVxx-47A

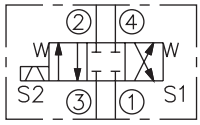


H Merkez
Modeller SVxx-47B

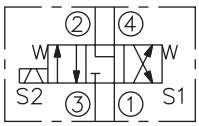


Spool Tip, 4 yollu, 3 Konumlu Valfler (devamı)

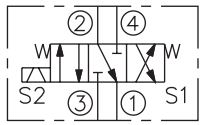
Kapalı Merkez
Modeller SVxx-47C



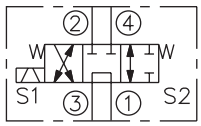
"Motor" Spool
Modeller SVxx-47D



Model SV08-47E

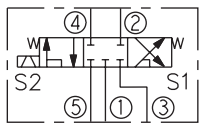


P-T Açık Merkez (Değiştirilmiş)
Model SV10-47F

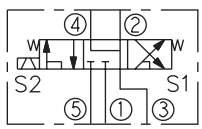


Spool Tip, 5 Yollu, 3 Konumlu Yük Uyarı Portlu

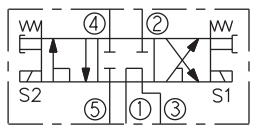
Model SV10-57C



Model SV10-57D

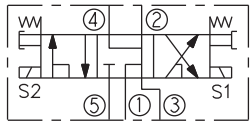


Model SVxx-58C



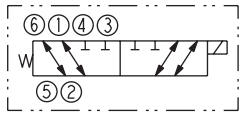
Spool Tip, 5 Yollu, 3 Konumlu Yük Uyarı Portlu (devamı)

Model SVxx-58D

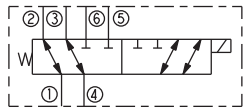


Spool Tip, 6 Yollu, 2 Konumlu Valfler

Model SV12-60

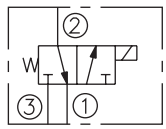


Seri/Paralel Sürücülü
Model SV80-61

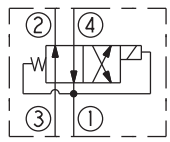


Spool Tip, 2 Konumlu Drop-In Style (Küçültülmüş) Valfler

3 Yollu: Model SV98-T39

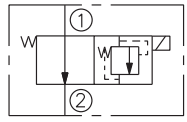


4 Yollu: Model SV98-T40

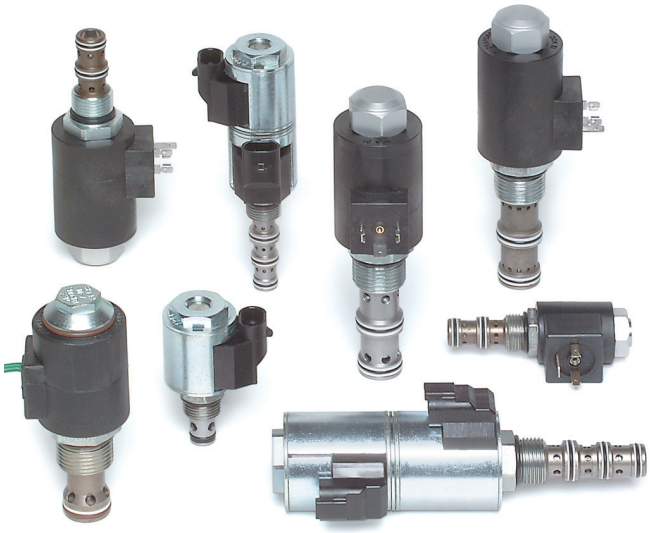


Spool Tip, 2 Yollu, Basınç Ayar Valfli

Normalde Açık
Model SVRV10-26
Çok Fonksiyonlu



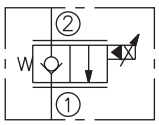
Elektro-Oransal Valfler



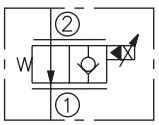
- **Mobil makine uygulamalarında ve zor çevre koşullarında güvenilirlik için dizayn edildi.**
- **Mükemmel doğrusallık ve düşük histerezis**
- **Uzun ömür için sertleştirilmiş hassas spoollar ve kafesler.**
- **Standart cavity ölçüleri ile oransal olmayan valfler ile değişebilirlik.**
- **Her açıdan küçültülmüş, contalı, oransal işletme ve pilot uyarılı valfler.**
- **Su ve havaya dirençli birleşik bağlantılı IP69K ya uygun "E" serisi bobinler.**

Oransal Yön Kontrol Valfi, 2 Yollu

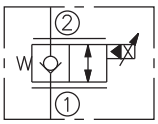
Normalde Kapalı
Modeller SPxx-20



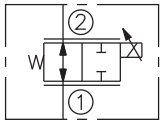
Normalde Açık
Modeller SPxx-21



Normalde Kapalı, Bi-Directional
Model SP08-22

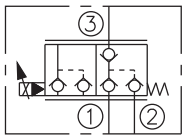


Normalde Açık, Bi-Directional
Model SP08-25

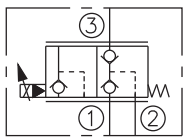


Oransal Yön Kontrol 3 Portlu, Normalde Kapalı

Çekvalfli-Yük Uyarısız
Model SPCL10-30
Çok Fonksiyonlu

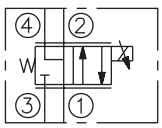


Yük Uyarılı
Model SPCL10-32
Çok Fonksiyonlu

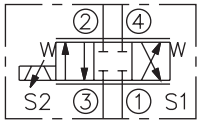


Oransal Yön Kontrol, 4 Yollu

2 Konumlu, Normalde Kapalı
Modeller SPxx-46R

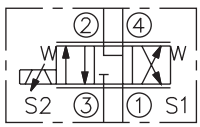


3 Konumlu, Kapalı Merkez
Modeller SPxx-47C, SP08-47CL



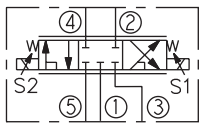
Oransal Yön Kontrol, 4 Yollu (devamı)

3 Konumlu, "Motor Spool"
Modeller SPxx-47D, SP08-47DL

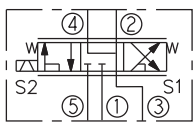


Oransal Yön Kontrol, 5 Yollu

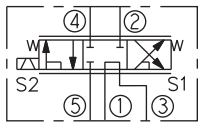
3 Konumlu, Yük Uyarılı
Modeller SP10-57C



3 Konumlu, Yük Uyarılı
Modeller SPxx-57D

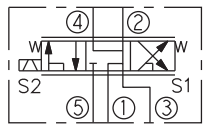


3 Konumlu, Serbest Frenli
Modeller SP10-58C



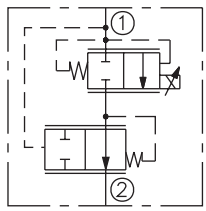
Oransal Yön Kontrol, 5 Yollu (devamı)

3 Konumlu, Serbest Frenli
Modeller SPxx-58D

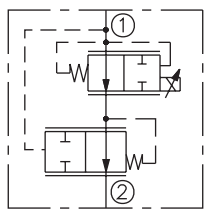


Oransal Akış Kontrol, 2 Yollu

Kısıtlayıcı, Normalde Kapalı
Model PV72-20

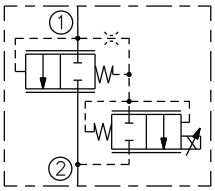


Kısıtlayıcı, Normalde Açık
Model PV72-21



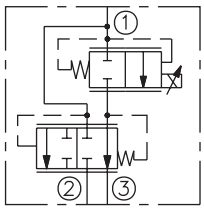
Oransal Akış Ayar 2 Yollu (devamı)

Normalde Kapalı
Model PV16-23

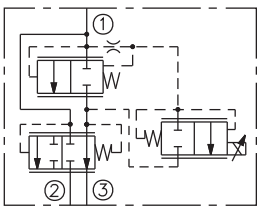


Oransal Akış Ayar 3 Yollu

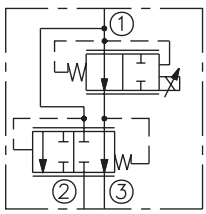
Bypass, Normalde Kapalı
Modeller PVxx30, PV76-30A



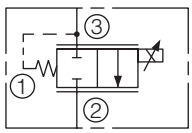
Bypass, Normalde Kapalı
Model PV42-M30



Bypass, Normalde Açık
Modeller PVxx-31, PV76-31A

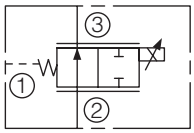


Normalde Kapalı
Modeller PV70-33, PV72-33



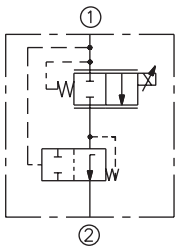
Oransal Akış Ayar 3 Yollu (devamı)

Normalde Açık
Modeller PV70-35. PV72-35

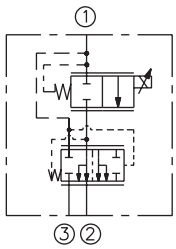


Oransal Akış Düzenleyici, Basınç Dengeleyicili

2 Portlu, Normalde Kapalı
Modeller PFR7x-33x

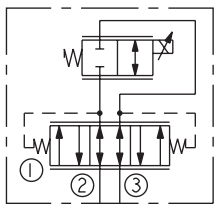


3 Portlu, Normalde Kapalı Öncelikli Bypass
Modeller PFR7x-33x



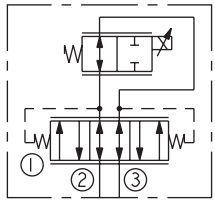
Oransal Akış Kontrol Bi-Directional

Normalde Kapalı
Modeller ZL70-30, ZL72-30

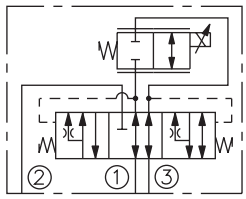


Oransal Akış Kontrol Bi-Directional (devamı)

Normalde Açık
Modeller ZL70-31, ZL72-31

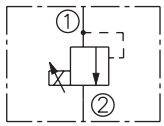


Normalde Kapalı
Modeller ZL70-36, ZL72-36

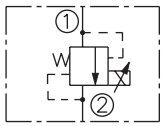


Oransal Basınç Ayar Valfi

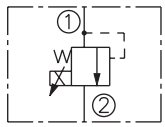
Yükselen Basınç-Yükselen Akım
Modeller TSxx-20



Azalan Basınç-Yükselen Akım
Model TS38-21

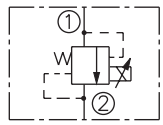


Pilot Uyarılı Basınç Ayar, Yükselen Basınç-Yükselen Akım
Modeller TSxx-26



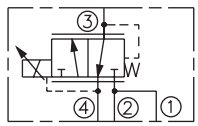
Oransal Basınç Ayar Valfi (devamı)

Pilot Uyarılı Basınç Ayar, Azalan Basınç-Yükselen Akım
Model TSxx-27

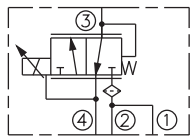


Oransal Basınç Ayar Valfleri, Düşürme/Boşaltma

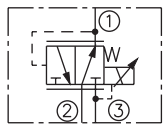
İçten Pilotlu
Modeller TS98-30
ve TS98-T34 (Drop-In Type)



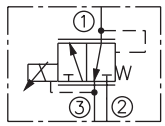
İçten Pilotlu
Model TS90-31



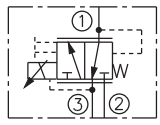
Pilot Uyarılı
Modeller TSxx-36



Direkt Uyarılı
Model EHPR08-33
ve EHPR98-T33 (Drop-In Type)



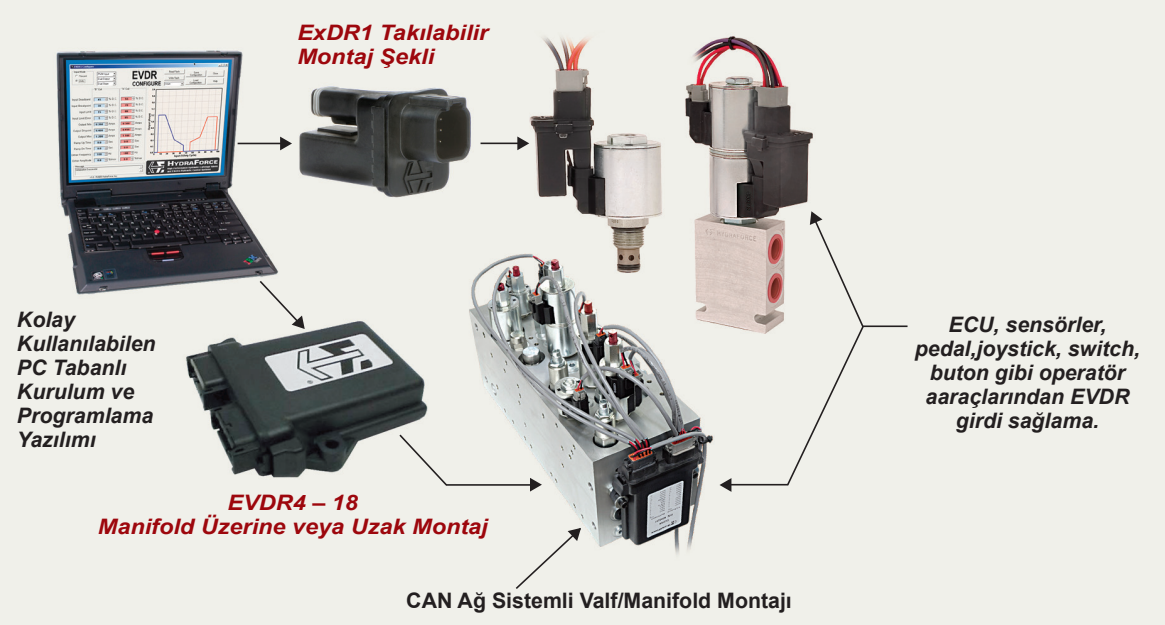
Direkt Uyarılı, Drop-In Type
Model EHPR98-T35
ve EHPR98-T38



Ağır Görevli Elektronik Makine Kontrol Sistemleri

Dayanıklı, Güvenilir Elektro-Hidrolik Kontroller ve Sistemler

PC ile programlanabilen EVDR kontrolleri, ağır şartlar altında çalışan ECU makine kontrolleri, oransal fan kontrolleri ve oransal valf sürücüleri ile makine kontrol sistemlerinde geniş bir alanda destek.



EVDR1, EFDR1, ETDR1 Valf Bobinlerine Montajda Takılabilir Tip Kontroller

EVDR1 HydraForce oransal yön kontrol, akış veya basınç kontrol valfleri için genel kullanış amacı ile PC ile programlanabilir şekilde dizayn edilmiştir.

EFDR1 oransal fan kontrolü için, ETDR1 aktarma kontrol uygulamalarında için dizayn edilmiştir.

ExDR1 tip kontrolörlerin girişi Deutsch elektrikli konektörlerde bulunan valf bobinlerinin üzerinde yer alan girişlere uygun olarak tasarlanmıştır.

EVDR4 ve EVDR5 müşteri tarafından programlanabilir arayüzü ile 4 oransal ve 1 açma/kapama valfi kontrol edebilir. EVDR4 yalnız kullanılır, EVDR5 CAN bağlantı arayüzü kullanır.

EVDR6 J1939 CAN bağlantı portlarını kullanarak 6 aç/kapa bobinini kontrol edebilir.

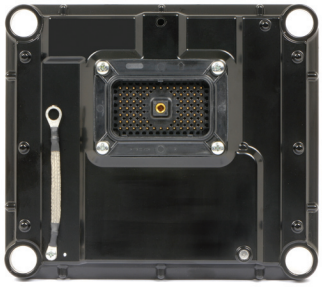
EVDR7 2 oransal veya açma/kapama valflerini kontrol edebilir ve 4 adet 5V referans sağlar.

EVDR9, EVDR10 ve **EVDR18** CAN genişleme modülleri 9 adet ağ tabanlı çıkış, J1939 arayüzünü kullanarak 10-18 giriş sunmaktadır.

EFDR2 ve EFDR3 Çoklu Giriş Fan Sürücü Kontrolleri hidrostatic fan sürücünüz için tüm soğutma sistem kontrolünü sunmaktadır.

EFDR2 RS232 bağlantısı ile 3 adet sıcaklık girişi ve 1 adet açma/kapama girişine sahip olup, bununla birlikte oransal fan sürücü valfi ve ters çevirme solenoid valfini en uygun şekilde kontrol etmeyi sunmaktadır.

EFDR3 CAN/J1939 bağlantısı ile 3 adet sıcaklık girişi ve 3 adet analog girişine sahip olup, bununla birlikte oransal fan sürücü valfi ve ters çevirme solenoid valfini en uygun şekilde kontrol etmeyi sunmaktadır.



ECU Ağır Çalışma Koşulları İçin Makine Kontrolleri

Uygulanamayacak fonksiyonları engel özelliği ve müşteri veya HydraForce tarafından programlanabilen yazılım aracı.

Sağlam ve güvenilir en zorlu mobil ekipman uygulamaları.

Kimyasal çarpılmaya dayanıklı ve çevreye uygun contalama.

8 Grms ye kadar titreşime dayanıklılık; -40°C -100°C derece çalışma sıcaklık aralığı.

EMI/RFI ya direnç testi.

Model ECU-MS: 25 giriş; 12 veya 20 çıkış.

Model ECU-MM: 44 giriş; 20 çıkış.

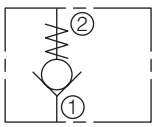
Model ECU-ML: 72 giriş; 26 çıkış.

Yön Valfleri

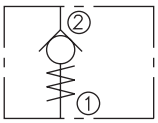
- **Standart cavity ölçüleri -04,-08,-10,-12,-16,-20 ve -42.**
- **Hidrolik uyarılı veya manuel kontrollü yön ve logic valfler sisteme esneklik kazandırır ve performansı en iyi seviyeye çıkarır.**
- **107 lpm/45 gpm geçirgenliğe kadar oransal, pilot uyarılı 3 konumlu, 4 yollu yön valfleri.**
- **Uzun ömür ve düşük sızıntılar için sertleştirilmiş hassas oturma yüzeyleri, spoollar ve gövdeler.**

Çekvalfler

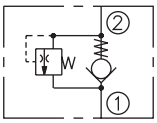
Check, Guided
Modeller CVxx-(B)20, CV42-M20, ve HCVxx-(M)20



Guided, Ters Yönlü Akış
Modeller CVxx-21, CV10-23, CV10-24

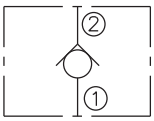


Guided, Termal Emniyet ile
Modeller CV10-28



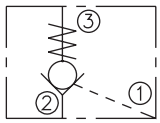
Çekvalf Disc Tip

Modeller CVD08, CVD10

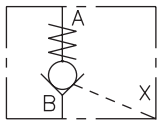


Pilot Uyarılı Çekvalf, Kilit Valfleri

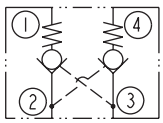
Pilot Uyarılı Çekvalf
Modeller PCxx-30, PC10-32



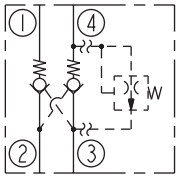
Pilot Uyarılı Çekvalf
In-Line Plumbed Valve
Modeller PCVxx



Pilot Uyarılı İkiz Çekvalf
Model DC08-40

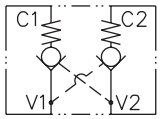


Pilot Uyarılı İkiz Çekvalf
Opsiyonel Termal Emniyet ile
Model DC10-40

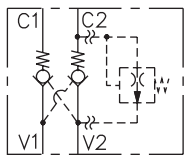


Pilot Uyarılı Çekvalf, Kilit Valfleri (devamı)

Pilot Uyarılı İkiz Çekvalf, In-Line Plumbed
Modeller DCV08, DVC12

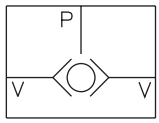


İkiz Kilit Valfi Termal Emniyet Opsiyonu ile
Model DCV10

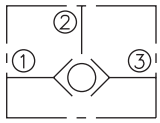


Veya Valfleri

Bilya Tip, In-Line Plumbed
Model LSV1

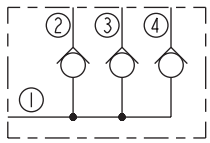


Bilya Tip
Modeller LSxx-(B)30

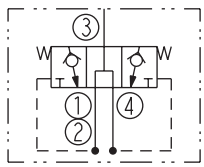


Veya Valfleri (devamı)

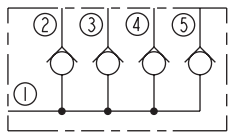
Çoklu
Model LS10-40



Zıt Sistemli
Model LS10-41

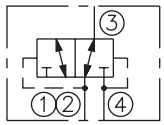


Çoklu
Model LS10-50



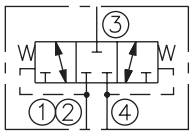
Düşük Basınç Öncelikli (Sıcak Hat) Veya Valfi

Normalde Kapalı, Yaysız
Modeller HSxx-42



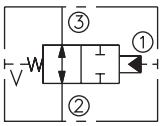
Düşük Basınç Öncelikli (Sıcak Hat) Veya Valfi (devamı)

Yay Merkezlemeli
Modeller HS5x-43

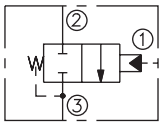


Pilot Uyarılı, 2 Yollu Spool Tip, Tahliyeli

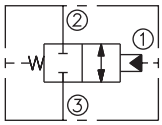
Normalde Açık, Atmosfer Tahliyeli
Modeller PDxx-30



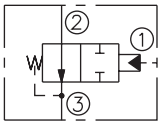
Normalde Kapalı, İçe Tahliyeli
Modeller PDxx-32



Normalde Kapalı, Atmosfer Tahliyeli
Modeller PDxx-34

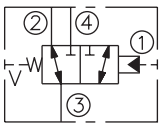


Normalde Kapalı, İçe Tahliyeli
Modeller PDxx-35



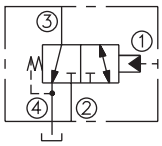
Pilot Uyarılı, 3 Yollu Spool Tip, Tahliyeli

Atmosfer Tahliyeli
Modeller PDxx-(M)40

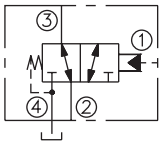


Pilot Uyarılı, 3 Yollu Spool Tip, Tahliyeli (devamı)

İçe Tahliyeli
Modeller PDxx-(M)41

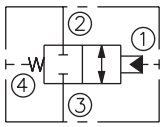


İçe Tahliyeli
Modeller PDxx-(M)42

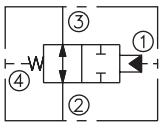


Pilot Uyarılı, 2 Yollu Spool Tip, Port Tahliyeli

Modeller PDxx-44

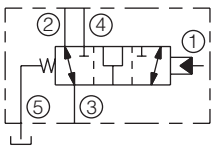


Modeller PDxx-(M)45

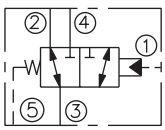


Pilot Uyarılı, 3 Yollu Spool Tip, Port Tahliyeli

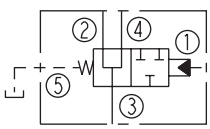
Model PD10-50



Model PDxx-S50

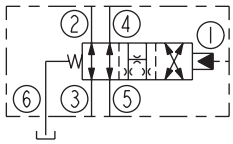


Model PD16-S51

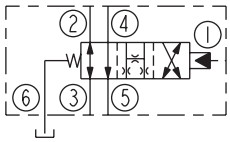


Pilot Uyarılı, 4 Yollu Spool Tip, Yay Tahliyeli

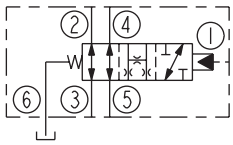
Model PD12-S60N



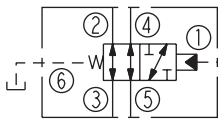
Modeller PD16-S60N, PD42-S60N



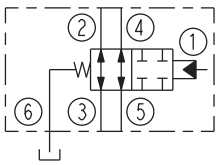
Model PD12-S61N



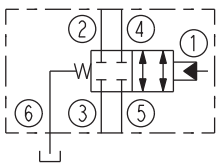
Model PD16-S61N



Model PD10-S62

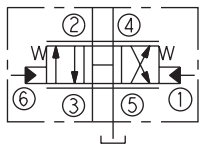


Model PD16-S63

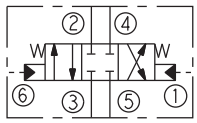


Pilot Uyarılı, 4 Yollu Spool Tip Valfler

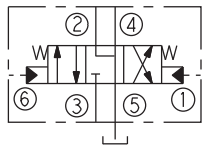
Model PD42-S67B



Model PD16-S67C

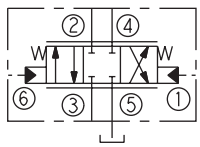


Model PD16-S67D

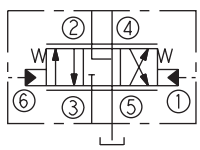


Pilot Uyarılı, Oransal Valfler

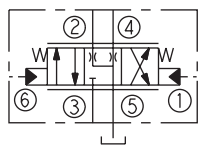
Modeller PExx-S67C



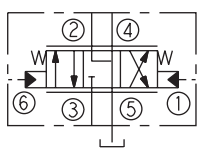
Meter-In ve Meter-Out
Modeller PExx-S67D



Modeller PExx-S67H

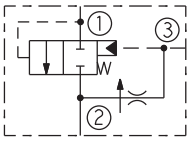


Yalnızca Meter-In
Modeller PExx-S67K



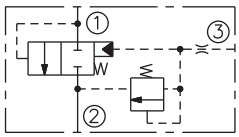
Basınç Dengeli Logic Elementler

Akış Ayarlı
Modeller EPFRxx-(S)35
Çok Fonksiyonlu

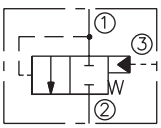


Pilot Uyarılı Logic Elementler

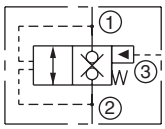
Basınç Ayar Valfli
Modeller ECR16-S35
Çok Fonksiyonlu



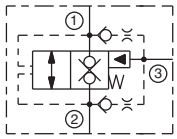
Spool Tip
Modeller EPxx-(S)35
ve HEP42-S35



Popet Tip
Modeller EPxx-S38

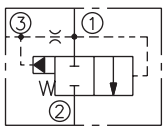


Popet Tip, Tahliyeli, Çift Çekvalfli
Model EP20-S39



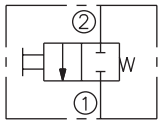
Tahliyeli, Spool Tip Logic Elementler

Modeller EVxx-(S)34, HEV42-S34

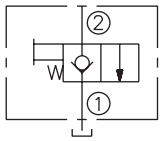


Manuel Kontrollü, 2 Yollu Valfler

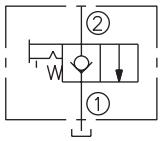
Model MV08-22



Normalde Kapalı, Yay Geri Dönüşlü, Manuel Kontrollü (İtmeli)
Modeller MP08-20, MP10-20
Kilitleme Seçeneği MP10 Modelindedir.

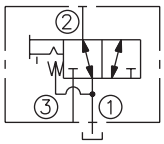


Normalde Kapalı, Yay Geri Dönüşlü, Manuel Kontrollü (İtmeli)
Modeller MP10-22
Konum Kilitleme Seçeneği İle

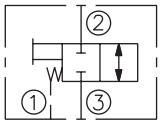


Manuel Kontrollü 3 Yollu Valfler

Yay Geri Dönüşlü (Çekmeli)
Model MPxx-30
Konum Kilitleme Seçeneği İle

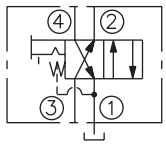


Yay Geri Dönüşlü (Çekmeli)
Model MP08-34

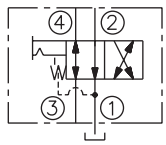


Manuel Kontrollü 4 Yollu Valfler

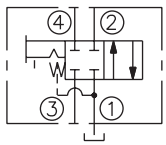
Yay Geri Dönüşlü (Çekmeli)
Model MPxx-40
Konum Kilitleme Seçeneği İle



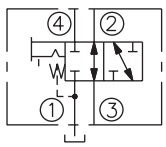
Yay Geri Dönüşlü (Çekmeli)
Model MD10-40



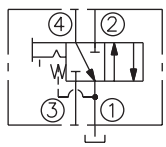
Yay Geri Dönüşlü (Çekmeli)
Model MPxx-41
Konum Kilitleme Seçeneği İle



Yay Geri Dönüşlü (Çekmeli)
Model MP10-42
Konum Kilitleme Seçeneği İle

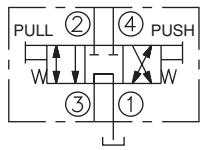


Yay Geri Dönüşlü (Çekmeli)
Model MP10-43
Konum Kilitleme Seçeneği İle

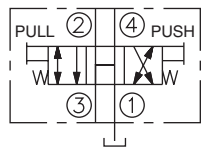


Manuel Kontrollü 3 Konumlu, 4 Yollu Valfler İtmeli/Çekmeli

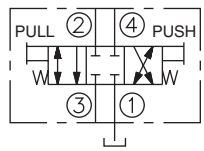
P-T Açık Merkez
Model MP10-47A



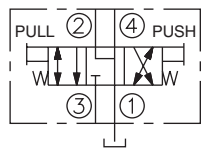
H Merkez
Model MP10-47B



Kapalı Merkez
Model MP10-47C

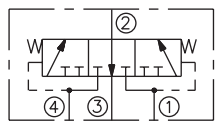


"Motor Spool"
Model MP10-47D

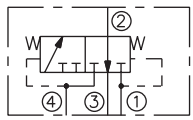


Fren Bırakma Valfleri

Model BV10-40

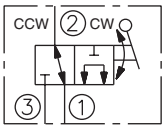


Model BV10-42

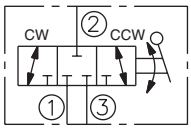


Manuel Kontrollü Valfler (Döndürmeli) 3 Yollu

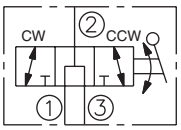
2 Konumlu
Model MR10-31



3 Konumlu
Model MR10-37A
Yay Merkezleme Seçeneği İle

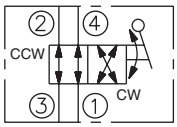


3 Konumlu
Model MR10-37B
Yay Merkezleme Seçeneği İle

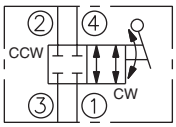


Manuel Kontrollü Valfler (Döndürmeli) 4 Yollu, 2 Konumlu

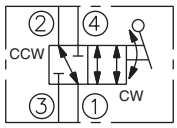
Model MR10-40



Model MR10-41

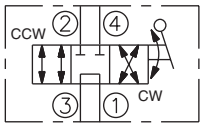


Model MR10-43

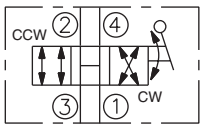


Manuel Kontrollü Valfler (Döndürmeli) 4 Yollu, 3 Konumlu

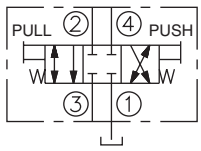
P-T Açık Merkez
Model MR10-47A
Yay Merkezleme Seçeneği İle



H Merkez
Model MR10-47B
Yay Merkezleme Seçeneği İle

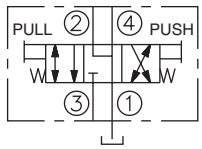


Kapalı Merkez
Model MR10-47C
Yay Merkezleme Seçeneği İle

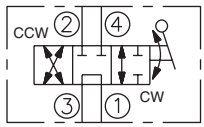


Manuel Kontrollü Valfler (Döndürmeli) 4 Yollu, 3 Konumlu (devamı)

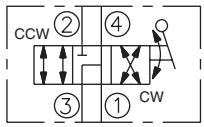
"Motor Spool"
Model MR10-47D
Yay Merkezleme Seçeneği İle



Model MR10-47F
Yay Merkezleme Seçeneği İle



Model MR10-47G
Yay Merkezleme Seçeneği İle

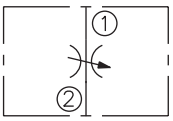


Akış Kontrol Valfleri

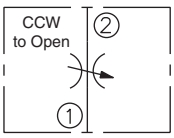
- **Değişken veya Sabit Ayarlı Valfler.**
- **Basınç Dengeleyici Akış Ayar Valfleri.**
- **Kısıcı, Bypass ve öncelikli devreler için yük duyarlı sistemler ile uyumlu basınç düzenleyiciler.**
- **Opsiyonel ayarlar ve ayarlanmış stiller.**
- **Silindir senkronizasyoları ve dengeleme uygulamaları için akış bölücü ve birleştiriciler.**

İğne Tip Akış Ayar Valfi

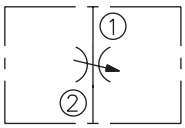
İğne Tip
Modeller NVxx-20, NV10-22



Döner Başlıklı Akış Kontrol
Model MR10-20

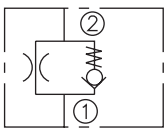


İğne Tip Akış Ayar Valfi, Hassa Ayar
Model NVxx-21



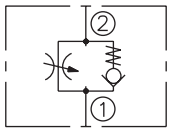
Akış Kontrol, Serbest Akış

Port 1 den Port 2 ye
Model FC08-20F

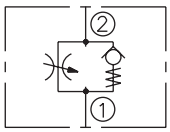


Akış Kontrol, Serbest Akış (devamı)

Port 1 den Port 2 ye
Model FCxx-20

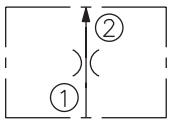


Port 2 den Port 1 e
Model FC10-21



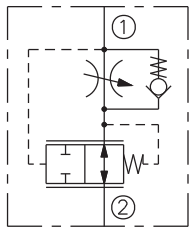
Akış Düzenleyici, Basınç Dengeliyicili

Sabit Ayarlı
Model FRxx-20F

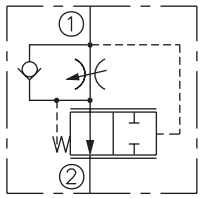


Akış Düzenleyiciler, Kısıcı ve Ayarlanabilir

Basınç Dengeliyicili
Modeller FR50-23, FR50-28

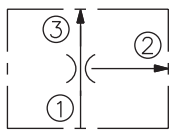


Ayarlanabilir Orifis
Model FR12-23



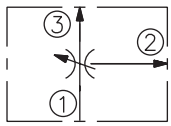
Akış Düzenleyiciler, Öncelikli Bypass, Basınç Dengeleyicili, Sabit Ayarlı

Modeller FRxx-30F

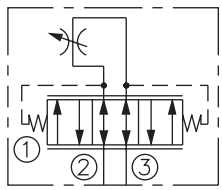


Akış Düzenleyiciler, Basınç Dengeleyicili ve Ayarlanabilir

Öncelikli Bypass, Sınırlı Aralıkta Ayarlanabilir
Model FR10-30A

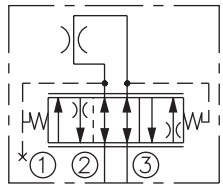


Bi-Directional
Model FRxx-32



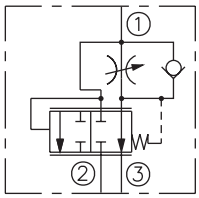
Akış Düzenleyici, Sabit Orifisli Bi-Directional

Model FR10-32F



Bypass Akış Kontrol, Ayarlanabilir Orifis

Modeller FRxx-33, FR10-39

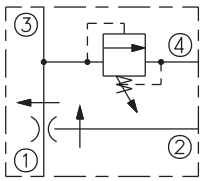


Basınç Ayarlı Akış Düzenleyici

Öncelikli Model

Modeller FRRVxx-41F

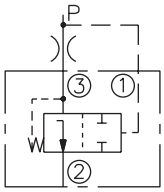
Çok Fonksiyonlu



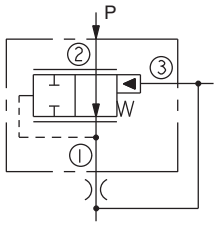
Basınç Dengeleyiciler

Spool Elementli

Modeller ECxx-30

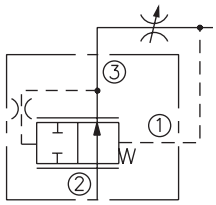


Model EC10-S31



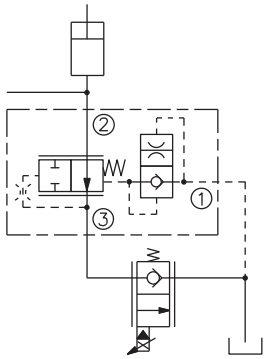
Basınç Dengeleyiciler (devamı)

Model ECxx-32



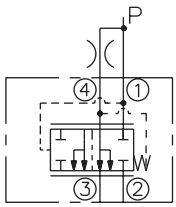
Sönümleme ve Yük Tutma ile

Model ECxx-34



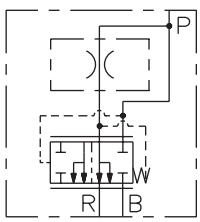
Öncelikli Bypass Spool Elementli

Modeller ECxx-40, EC42-M40



Öncelikli Bypass Spool Elementli, İşlenmiş Gövde

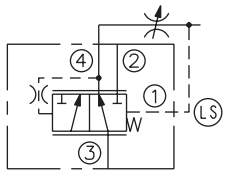
Model ECV10-44



Basınç Düzenleyiciler, Yük Duyarlı

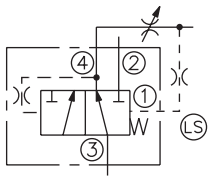
Öncelikli Model

Modeller ECxx-42



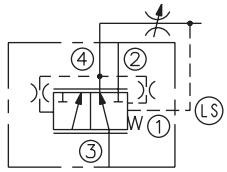
Öncelikli Statik Yükler İçin

Model EC42-M42



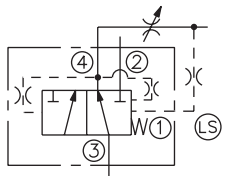
Dinamik Yükler İçin

Modeller ECxx-43



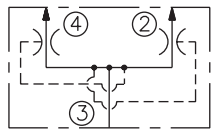
Öncelikli Dinamik Yükler İçin

Model EC42-M43



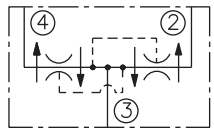
Akış Bölücüler, Birleştiriciler

Modeller FDxx-40



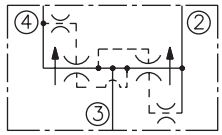
Silindir Senkronizasyonunda

Modeller FDxx-41



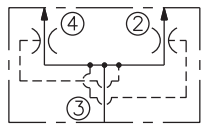
Dengeleyici

Modeller FDxx-42



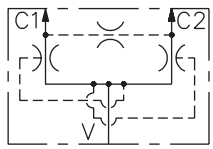
Yüksek Basınç ve zor Görevlerde

Modeller FD50-44, FD5x-45



Dengeleme Orifisi ile

Model FDC16

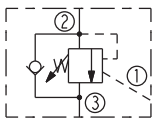


Basınç Kontrol Valfleri

- **Basınç emniyet, düşürücü/boşaltma, unloading ve sıramala işlemleri.**
- **-16 ölçüsüne kadar standart cavity (303 lpm/80 gpm).**
- **Tüm uygulama koşulları için farklı alanlarda pilot uyarılı ve direk kontrollü basınç düzenleyiciler.**
- **350 bar/ 5075 psi e kadar çalışma basıncı.**
- **Opsiyonel yay sertlik aralıkları ve ayarlı çeşitler.**

Hareket Kontrol Valfi, Pilot Uyarılı

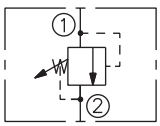
Model CB10-30



Emniyet Valfi, Popet Tip

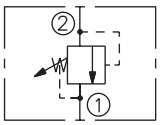
Direk Kontrollü

Modeller RVxx-20, RV08-29, ve RVD50-20



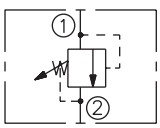
Blok İçi Farklı Basınç Ayar Port 2 den 1 e

Modeller RVxx-22



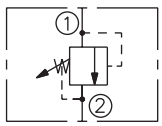
Blok İçi Farklı Basınç Ayar Port 1 den 2 ye

Modeller RV10-23



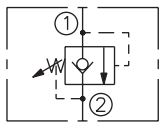
Emniyet Valfi, Spool Tip Pilot Uyarılı

Modeller RVxx-26



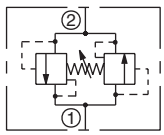
Pilot Uyarılı Ters Yönlü Çekvalfli

Model RV10-28

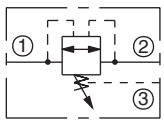


Emniyet Valfi Bi-Directional

Model CR10-28



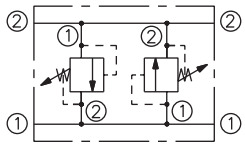
Model CR08-38



Çapraz Bağlantılı Emniyet Valfleri

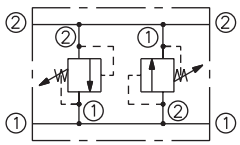
Direk Kontrollü Popet Tip

Modeller CRVxx-20



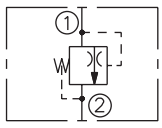
Differential Area Poppet

Modeller CRVxx-22



Termal Emniyet Valfi

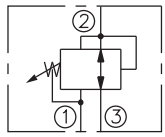
Model TR04-B20



Basınç Düşürücü/ Boşaltma Valfleri

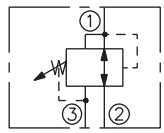
Yüksek Basınç

Modeller PRES50-30



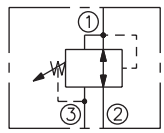
Basınç Düşürücü/ Boşaltma Valfleri (devamı)

Modeller PRxx-32



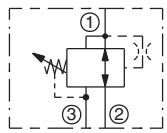
Pilot Uyarılı

Modeller PRxx-36



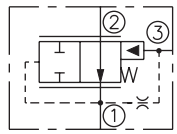
Spool Tip, Sönümlemeli, Direk Kontrollü

Modeller PR5x-38



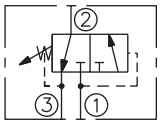
Basınç Düşürücü Logic Element

Modeller ERxx-S30

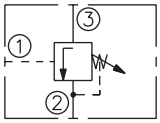


Sıralama Valfi Pilot Uyarılı ve İçten Tahliye

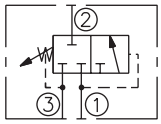
İçten Pilot ve Tahliye
Modeller PSxx-30, PS10-31



Dıştan Pilot
İçten Tahliye
Modeller PSxx-32, PS10-33

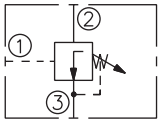


İçten Pilot ve Tahliye
Model PS10-34

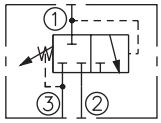


Sıralama Valfi Pilot ve Sızıntılı

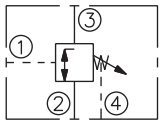
Dıştan Pilot, İçten Sızıntı
Modeller PSxx-35



İçten Pilot Uyarısı,
Dıştan Sızıntı
Modeller PSxx-36

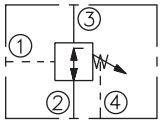


Normalde Kapalı,
Dıştan Pilot ve Sızıntı
Modeller PSxx-40

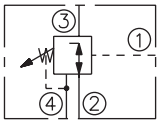


Sıralama Valfleri Dıştan Pilotlu

Normalde Açık,
Dıştan Pilot ve Tahliye
Model PS10-41

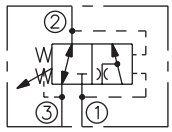


Model PS10-43

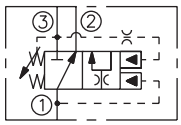


Sıralama Valfi, Kick Down

Model KS10-30

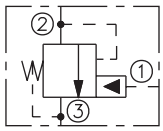


İçten Pilot
Model KS10-31

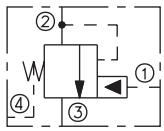


Unloading Pilotlu Valfler

İçten Sızıntı
Modeller UP10-31



Pilot Uyarılı
Basınç Sıralama Valfi
Model UP10-40



HydraForce *Ürün Rehberi*

HydraForce, 25 yıldır endüstri ve mobil sektör için yüksek performans hidrolik ve elektro-hidrolik control ürünleri üretmektedir. Ürünlerimiz zor çalışma koşulları altında endüstriyel ekipman pazarının yanısıra arazi ve mobil ekipman pazarında yüksek güvenilirlik ve performans sunmak için dizayn edilmektedir. Müşteri ziyaretlerini her zaman beklemektedir.

- **Tarım ve Çim Makineleri**
- **İnşaat ve Yol Yapım Ekipmanları**
- **Malzeme Taşımacılığı ve Platform Ekipmanları**
- **Transmisyon, Motor ve Güç Aktarım Organları Kontrolleri**
- **Orman ve Kaynak Yönetim Ekipmanları**
- **Çöp ve Atık Taşıma Ekipmanları**
- **Enjeksiyon Kalıpları ve Pres Makinaları**
- **Diğer Özel Mobil ve Endüstriyel Uygulamalar**

Chicago kuzeyinde Linconshire eyaletindeki Yönetim, mühendislik ve üretim binası.

Lincolnshire eyaletindeki işleme merkezi.

İngiltere Birmingham' da bulunan avrupa yönetim, mühendislik ve üretim binası.

HydraForce

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