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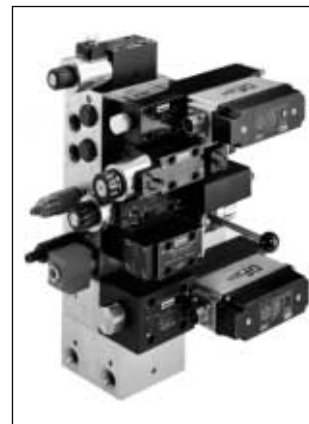
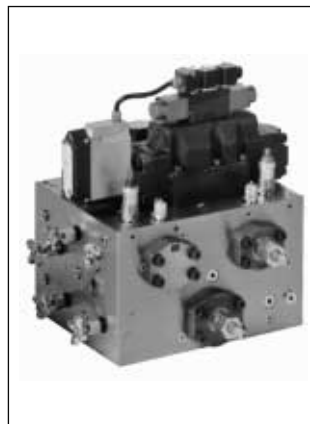
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Parker is more than a supplier of excellent components. Together with our customers, we develop innovative systems solutions. In this industrial valves catalogue, we would like to point out to you our special competence in industrial control units. Our experienced, highly motivated team answers technical needs with complete, sound solutions.

Our performance spectrum comprises a complex understanding of the job, project management, design, and production, including final tests of control units on our modern, automated test beds. In addition we offer compact hydraulic axis controls.

When you entrust us with your system requirements, you can rely on getting an optimal solution from the Parker valves program with all components used in accordance with their characteristics. Furthermore you can rely on us taking full responsibility for all our valves, electronics and combined functions within the system.



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In addition to customized solutions Parker also supplies standardized press controls (e.g. certified versions in nominal sizes NG 06 up to NG50) as shown in our brochure HY11-3235/UK "Hydraulics for Press Controls". Contact your Parker representation for information and offerings concerning your hydraulics.





Under the ordering code AXC Parker offers a range of configured standard closed loop axes for a wide range of applications such as

- Material handling and feed systems
- Wood working and plastics industries
- Machine tools (loading through vertical actuators)
- Paper industry (lifting and tensioning)
- Automotive industry (transport and feeding)

The electro-hydraulic axes consist of proven standard components and are mounted and tested as a unit. Combined with control electronics, the electro-hydraulic axes are ready for use, requiring only connection lines to the system.



With the 3 Parker electro-hydraulic linear drives, position accuracy can be achieved reliably and cost-effectively in all 3 performance classes:

The standard axes catalogue HY11-3341/UK contains all information required to select and order a complete standard axis.

Performance class 1:  $< \pm 1\text{mm}^*$

Performance class 2:  $< \pm 0.3\text{mm}^*$

Performance class 3:  $< \pm 0.05\text{mm}^*$

\*without external load and friction



Technical features

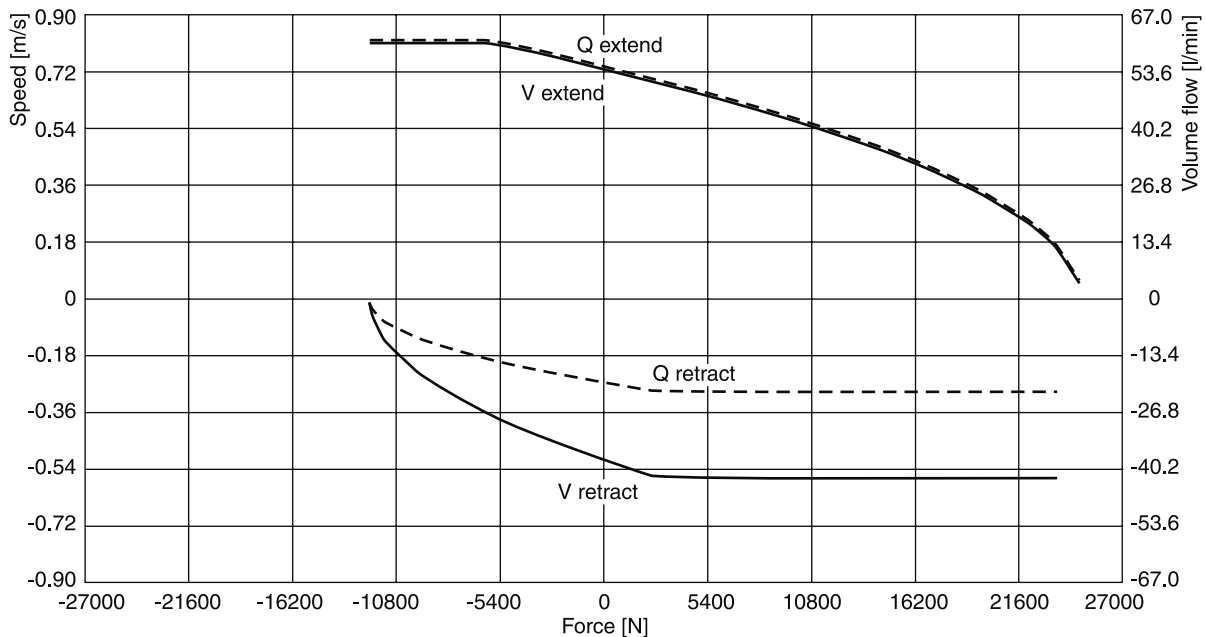
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- Stroke up to 3000mm
- Push force up to 620kN
- Pull force up to 320kN
- Position and force control
- Speed up to 1m/s
- Overload protection
- Integrated position feedback
- Long life time and low maintenance
- Only P and T need connections
- 8 sizes (40/28 up to 200/140)
- Axis controller (option)
- Blocking valves (option)
- Pressure overload protection (option)
- Standard axis ordering code

Performance diagrams

In addition to the basic technical data the standard axes catalogue provides easy to use information for the right configuration.

With individual diagrams for all cylinder and valve dimensions the axes can easily be selected according to the force and speed requirements.





**Control Valves**

For the 3 performance classes different valve series are used. Starting with standard proportional valves for sim-

ple closed loop solutions to highly sophisticated DFplus valves in performance class 3.



Performance class 1: D\*FB series



Performance class 2: D\*FB OBE series



Performance class 3: D\*FP series

**Controllers**

Optionally the axes can be ordered with controller. In performance class 1 the axes are controlled by Parker

digital modules, in classes 2 and 3 the highly sophisticated Compax 3F controller is used.



Performance class 1: PWDXX digital module



Performance classes 2 and 3: Compax 3F axis controller

**Position Paper of HCD  
regarding  
machinery directive 2006/42/EG  
DIN EN ISO 13849**



Products made by the Hydraulic Controls Division (HCD) of Parker Hannifin GmbH are excluded from the scope of the machinery directive following the „VDMA Position Paper on the Implementation of the Machinery Directive 2006/42/EC in the Fluid Power Industry“ (Rev. 29.07.2009).

The only exceptions are products that comply to the definition of a safety component, defined in article 2 c) of the machinery directive.

All HCD products are designed and manufactured considering the basic as well as the proven safety principles according to EN 13849-2:2008-09, C.2 and C.3, so that the machines in which the products are incorporated meet the essential health- and safety requirements.

Components that fall within the scope of DIN EN ISO 13849-1, *Safety of machinery – Safety related components of controls – part 1: General principles for design* do not necessarily have to be placed on the market as safety components in accordance with the machinery directive.

A component that is placed on the market but not as a safety component does not necessarily provide a lower safety level.

Confirmations for components to be proven components, e. g. for validation of hydraulic systems, can only be provided after an analysis of the specific application, as the fact to be a proven component mainly depends on the specific application.

MTTF<sub>d</sub> values for our products are part of the technical data within our catalogue.

B10<sub>d</sub>, DC and CCF values depend on cycle time, running time and system design. Therefore they can only be provided application specific.

## Position Paper Machinery Directive 2006/42/EG „safety components“

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Parker Hannifin GmbH confirms, that our safety components comply with the machinery directive 2006/42/EC, as long as they are used as intended. The EC Declaration of conformity includes possible conformity to other directives as well.

Safety components are:

### Pressure relief valves according to directive 97/23/EG

Type R4V\*V , R4V\*W  
Type R6V\*V, R6V\*W  
Type DSDU 578 P20E TÜV  
Type DSDU 1078 E\*E TÜV

#### Intended usage:

Pilot operated pressure relief valves to limit a maximum pressure, pre-adjusted unchangeable to this maximum pressure.

The intended usage is provided as long as the valves are integrated into the system as follows:

- P-port connected directly to the point where the pressure should be limited
- T-port connected directly to tank without any backpressure

Size of the valve and the pipes have to be matched to the maximum possible flow and pressure.

### Clamping valves according to EN 201:1997

#### 2-way-slip in cartridges

Type C10-DEC 101-SC  
Type C13-DEC 107-SC, C18-DEC 107-SC

Direct operated directional control valves NG6

Type D1VW\*-SC, D1DW\*-SC;

Direct operated directional control valves NG10

Type D3W\*-SC, D3DW\*-SC

Pilot operated directional control valves NG10

Type D31DW\*-SC

Pilot operated directional control valves NG16

Type D41VW\*-SC

Pilot operated directional control valves NG25

Type D81VW\*-SC, D91VW\*-SC

#### Intended usage:

For hydraulically operated clamping units of injection molding machines according to the manufacturer's declaration of incorporation.

### Press controls according to DIN EN 693:2009

Press control NG06

Type PADZ2780.3xx

Press control NG10

Type PADZ2781.3xx

Press control NG16

Type PADZ2782.3xx

Press control NG25

Type PADZ2783.3xx

Press control NG50

Type PADZ2784.3xx

#### Intended usage:

To be incorporated into hydraulic presses according to DIN EN 693:2009.

Declaration of conformity is valid from 29.12.2009 for all new above listed products. For earlier delivered products conformity is not possible to declare.

The declaration of product conformity does not include a declaration of conformity for the machinery in which our product is incorporated. The conformity for the machinery only can be declared by the person who places the machinery on the market inside the EU for the first time.

If the listed components are incorporated in already used machinery (placed on the market before 1995) and if they do not change the function of this machinery significantly, the machinery must not be put into operation until the conformity of the machinery to national regulations, especially safety regulations, is declared.

If the function of the machinery is changed significantly, conformity to the machinery directive 2006/42/EC has to be declared.

A declaration of conformity according to machinery directive 2006/42/EC for other Parker products has to be proved depending on the special application.

