

Product Instructions and Warnings Guide

Always follow EH's Product Instructions and Warnings Guide before use to prevent safety risks or malfunctions.
Proper installation and operation are essential for system reliability.

1. General Instructions

These safety guidelines supplement the product's technical documentation and must be followed during installation and operation. To ensure safety for personnel, animals, and property, all systems must incorporate appropriate safeguards. A copy of these instructions must be provided to all personnel involved in product selection or use.

EH cannot guarantee universal suitability across all applications due to varying operating conditions. Users bear full responsibility for:

1. Product selection based on application requirements
2. Verification that the product meets all operational and safety needs
3. Provision of safety warnings for equipment incorporating EH products
4. Proper disposal per environmental regulations

2. Instructions For Selection of The Product

Prior to installation, verify the product's suitability for your specific application by considering these critical factors:

1. Product Type Selection

- Flat-face couplings: Minimize fluid loss and contamination (ideal for clean environments)
- Screw couplings: Optimized for high-pressure (50+ MPa) and high-impulse applications
- Poppet valve couplings: Recommended for agricultural equipment

2. Operational Parameters

- Material compatibility: Ensure wetted materials resist your hydraulic fluid and environment
- Dimensional suitability: Match port sizes to avoid flow restrictions
- Pressure ratings: Confirm working pressure exceeds system peaks (\neq burst pressure)
- Temperature limits: -30°C to +80°C operational range (special variants available)

3. Special Conditions

- Flow reversal: Requires specially designed couplings
- Residual pressure: Use only approved models (static pressure ≤ 35 MPa)
- High-cycle applications: Verify impulse test data matches your usage frequency
- Rotational/vibrational loads: Require swivel joints or reinforced designs

2. Instructions For Selection of The Product

4. Safety Protocols

- Personal protection: Mandatory for hot systems (>30°C)
- Containment: Install drip trays for potential leaks
- Locking mechanisms: Essential near personnel (1m proximity rule)
- Hose management: Prevent side-loading and kinking

Prohibited Applications:

- ✗ Nuclear/aviation systems
- ✗ Explosive atmospheres
- ✗ Flammable media (without explicit approval)

For non-standard applications (vacuum, extreme temps, etc.), consult EH Engineering before deployment.

3. Instructions For Stock Preservation

To ensure optimal condition before use, strictly follow these storage protocols:

1. Packaging Integrity

- Maintain original sealed packaging to protect components (especially seals) from dust and UV exposure

2. Storage Environment

- Store in dry, climate-controlled areas (<60% humidity)
- Prevent condensation, salt exposure, and ozone-generating equipment
- Keep away from heat sources, magnetic fields and direct sunlight

3. Protective Components

- Retain all protective caps until installation
- Contact customer service for special packaging needs
- Non-compliance voids warranty and may cause seal degradation or mechanical damage

4. Installation Instructions

1. Pre-Installation Checks

- Verify part number and product description match order specifications
- Conduct visual inspection for transit damage or defects

2. Hose Selection & Assembly

- Use flexible hoses to absorb vibrations and prevent:
 - Accidental disconnections
 - Seal/mechanism damage
- Ensure proper alignment during connection/disconnection
- Avoid axial/radial loads exceeding 50N (per ISO 16028)

3. Adapter Installation

- Use thread-matched adapters and OEM sealing systems
- Apply calibrated torque wrenches (no pipe wrenches/vises)
- Tighten to ISO 1179-2 torque specifications

4. Installation Instructions

4. Coupling Positioning

- Install in easily accessible locations
- Add protective shrouds where required by EN 982/ISO 4413
- Orient to minimize operator strain during service

Critical Prohibitions:

- ✗ Never exceed 50N side-load limit
- ✗ Avoid improper tools (causes galling/seal damage)
- ✗ Prevent misaligned connections (leads to premature wear)

5. Instructions of Use

1. Proper Usage Instructions

- Follow the specific operating procedures outlined in the product catalog or EH's usage instructions
- Immediately stop use and replace the product if any of the following occur:
 - Visible damage (cracks, corrosion, deformation)
 - Excessive connection force (beyond catalog specifications)
 - Leakage (external or internal)
 - Valve malfunction (failure to open/close properly)
- Contact EH for troubleshooting

2. Connection & Disconnection

- ✓ Clean all coupling surfaces before connecting to prevent:
 - Seal damage
 - System contamination
 - Dangerous leaks
- ✓ Follow approved connection methods (no improvised tools) Avoid axial/radial loads exceeding 50N (per ISO 16028)
- ✓ Expect minor fluid loss during disconnection (refer to catalog for spillage values)
- ✓ Contain spills to prevent environmental contamination

5. Instructions of Use

3. Handling & Maintenance

- Avoid mechanical impacts (causes valve/seal damage)
- Never force valves open to release trapped pressure
- Use only in clean hydraulic systems (dirt accelerates wear)
- Apply protective caps when disconnected to prevent:
 - Dust ingress
 - Surface damage

4. Cross-Brand Compatibility Warning

⚠ Do not mix EH couplings with incompatible brands

- If unavoidable, never exceed the lower pressure rating of the two coupled halves

6. Maintenance Instructions

1. Importance of Regular Maintenance

- Prevents unexpected failures and operational downtime
- Reduces safety risks caused by wear or leaks
- Extends product lifespan under varying working conditions

2. Preventive Maintenance Checklist

- ✓ Clean the product and surrounding area thoroughly
- ✓ Inspect for damage: Cracks, corrosion, or deformation
- ✓ Check for leaks (internal/external)
- ✓ Verify adapter torque (refer to catalog specifications)
- ✓ Assess hydraulic fluid cleanliness (ISO 4406 standards)
- ✓ Lubricate moving parts with seal-compatible grease
- ✓ Plan replacements based on application demands

3. Repair Procedures

- ⚠ Only use EH-approved spare parts and tools
- ⚠ Follow EH's repair manuals for correct disassembly/reassembly
- ⚠ Contact EH for technical support

7. Disposal Instructions

To ensure environmental compliance:

1. Do Not Discard Improperly

- Never dispose of products as general waste

2. Legal Compliance Required

- Follow all local environmental regulations for disposal
- Consult municipal waste authorities for specific requirements

3. Material Information

- Contact EH for full product composition details

4. User Responsibility

- Must classify waste type (hazardous/non-hazardous)
- Must arrange approved disposal methods

Note: Improper disposal may violate environmental laws and incur penalties.

**IT IS THE RESPONSIBILITY OF THE USER TO SELECT, INSTALL AND USE THE QUICK
RELEASE COUPLINGS AND VALVES IN THE CORRECT WAY.**