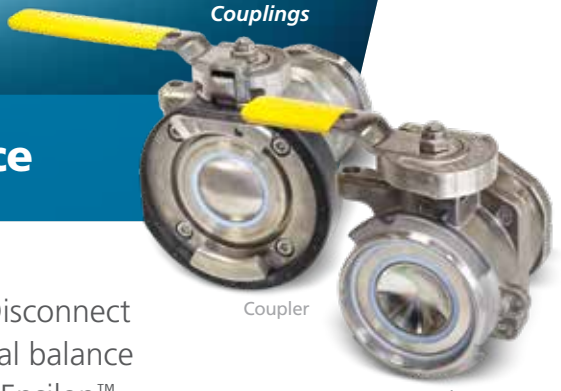
UNRESTRICTED FLOW.

Lowest Fluid Loss.

Epsilon™
Dry Disconnect Couplings



Coupler

Adaptor

Superior Design Delivers **Great Performance**

Featuring an innovative double ball-valve system, ***Epsilon***™ Dry Disconnect Couplings deliver the lowest product loss in the industry. A tactical balance of an unrestricted flow path and double shutoff reliability makes Epsilon™ the safest and most efficient coupling system in the world.

Features & Benefits:

- **LOWEST FLUID LOSS,** driven by the innovative unique double ball-valve system, ensures the lowest product loss in the industry.
- **UNPARALLELED SAFETY** with multiple interlocks that eliminate unintentional disconnects and chemical releases that could threaten worker safety and the environment.
- **FULL FLOW** with unrestricted flow path. No turbulence!
- **OPTIMAL DEFENSE** against cross-contamination with optional keyed couplings that mechanically lock out and isolate transfer lines.
- **ENGINEERED FOR EASY OPERATION** and maintenance with no special tools needed for seal replacements.
- **316 STAINLESS** or **HASTELLOY® CONSTRUCTION** for critical, aggressive, corrosive fluids.
- **1", 2" AND 3" SIZES**
- **PRESSURES UP TO 435 PSI (30 BAR)**

OPW®
ENGINEERED SYSTEMS
a DOVER company

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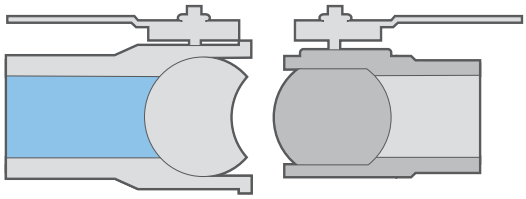
ENGINEERING | WHAT'S NEXT

Epsilon™ Coupler

Ball-Valve Style Design

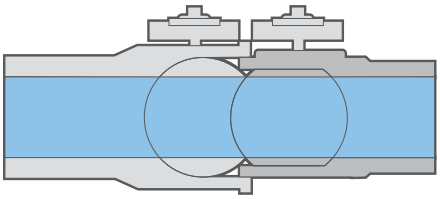
1



Lowest fluid loss at disconnection

Ball-Valve Design connects with Convex Ball Surface Seats with Concave Ball to prevent product from getting trapped in cavity. The result is minimal product loss.

2



Unrestricted flow when connected

Liquid transfers through adaptor and coupling without any restrictions to the flow.

Ordering Information

Part Number Prefix

System Half
A = Adaptor Half
H = Hose Half (or Coupler)
U = Ultra-low Spill

Base Valve Size in Sixteenths of an inch
16 = 1" (DN 25)
32 = 2" (DN 50)
48 = 3" (DN 80)

Cavity Filler
0 = No
1 = Yes

Protective Cap
1 = Dust
2 = Pressure

Seal
1= TFM
2= PFA

Key
0= None
1= 1
2= 2
3= 3
4= 4
5= 5
6= 2-3
7= 2-3-4
8= 3-4

ZE 32 A S 32 A 0 1 2 3 2

Materials of Construction
S = 316 Stainless Steel
H = Hastelloy C-276 (wetted)
A = All Hastelloy C-276

End Connection Size
12 = 3/4" (DN 20)
16 = 1" (DN 25)
24 = 1-1/2" (DN 40)
32 = 2" (DN 50)
48 = 3" (DN 80)

End Connection Type
A = FNPT
B = FBSP
C = SCH 40 Butt Weld
D = ANSI 150# Flange
E = ANSI 300# Flange
F = Tri-Clover (Sanitary Flange)
G = ANSI 600# Flange
J = DIN EN 1092-1/11 (B1 Facing), PN16
K = DIN EN 1092-1/11 (B2 Facing), PN16
L = DIN EN 1092-1/11 (B1 Facing), PN40
M = DIN 11850 Range 1 Butt Weld
N = JIS 10K
P = DIN 11850 Range 2 Butt Weld
Q = DIN 11850 Range 3 Butt Weld

Handle
1 = Standard
2 = Raised
3 = Long Coupler
4 = 6" Welded

Availability of styles, sizes and materials may vary depending on swivel configurations. Consult OPW Customer Service regarding your exact requirements.

Epsilon Seal Kit Ordering Guide

ZK 16 A M 001

Seal Kit Suffix

Seal Kit Prefix

Half Size
16 = 1"
32 = 2"
48 = 3"

Half Type
A = Adaptor Half
H = Hose Half (or Coupler)
U = Ultra-low Spill

Seal
M = TFM
P = PFA
F = PTFE (cavity filler only)

Performance Characteristics

Valve Size	Port Size	Maximum Emissions	Flow Rate GPM L/min	C_v	Max Working Pressure psi (bar)	Weight - lbs (kg) Adapter	Weight - lbs (kg) Coupler	Temp = °F (°C) Min	Temp = °F (°C) Max
1-inch	3/4", 1", DN 20 or DN 25 Port	<25 ppm	50 (189)	42	435 (30)	2.7 (1.2)	3.0 (1.4)	-22° (-30°)	450 (230)
2-inch	1-1/2", 2", DN 40 or DN 50 Port	<25 ppm	150 (568)	160	435 (30)	4.0 (1.8)	6.0 (2.7)	-22° (-30°)	450 (230)
3-inch	3" or DN 80 Port	<25 ppm	300 (1135)	240	360 (25)	16.0 (7.3)	19.0 (8.6)	-22° (-30°)	450 (230)

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