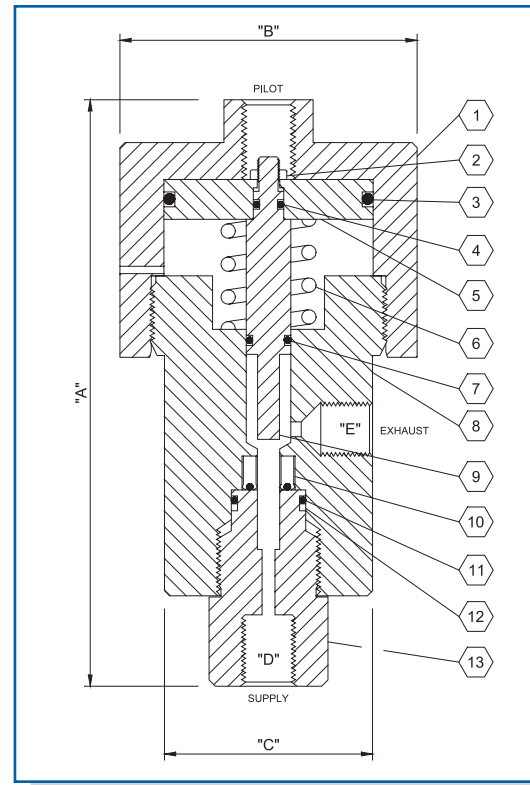# Ruelco

RD-1 2-Way Dump Valve   Model 8001

RD-1

2-Way Normally Open Dump Valve Model 8001

GENERAL DESCRIPTION:

The Ruelco 'RD-1' is a 2-way normally open hydraulic controller that acts as a snap acting vent valve on loss of pilot pressure. This configuration of the Ruelco 'RD-1' permits control of hydraulic pressure up to 6000 psi. A pilot supply of 80 psi is necessary to control 6000 psi of hydraulic pressure. Minimum recommended pilot pressure is 30 psi. A high ratio of hydraulic pressure to pilot control pressure ensures safe operation. A soft seal design ensures zero leakage in the hydraulic section.

The internal spring and the hydraulic pressure act on the spool area is jointly responsible for opening the valve, although each on its own provides sufficient force to open the valve.

Ruggedly constructed stainless steel process wetted parts provide years of reliable service and the compact and simple design makes field maintenance easy.

Parts List For RD-1 2-Way Dump Valve

Item	Qty.	Description	Material	Part No.
1	1	Cap	St. Stl.	41-009-0A0
2	1	Lock Nut	St. Stl.	41-012-000
3*	1	O-Ring	Viton	41-013-000
4*	1	O-Ring	Viton	41-014-000
5	1	Piston	St. Stl.	41-019-000
6	1	Spring	Inconel	41-020-000
7*	1	O-Ring	Viton	41-021-000
8	1	Body	St. Stl.	42-025-000
9	1	Spool	St. Stl.	41-015-000
10*	1	Polypak	Polyurethane	41-023-000
11*	1	O-Ring	Viton	41-008-0A0
12	1	Backup	Teflon	NO-008-75
13	1	Hex Plug	St. Stl.	4H-002-000
14	1	Repair Kit	* Items	NO-014-75

Dimensions Inch (MM)

'A'	4.95 (125.7)
'B'	2.5 (63.5)
'C'	1.75 (44.5)
'D'	1/4" FNPT
'E'	1/4" FNPT
Weight	3.75 lbs. (1.7 kg)

Pilot Section Specifications P.S.I. (Bar)

Maximum Operating Pressure	200 (13.8)
Burst Pressure	45 (3.1)
Fluid	Air/Hydraulic
Ambient Temp. Range	-20 to 160 deg . F -29 to 70 deg. C

Hydraulic Section Specifications P.S.I. (Bar)

Maximum Operating Pressure	6000 (414)
Burst Pressure	12000 (828)
C_V Factor	.25
Ambient Temp. Range	-20 to 160 deg . F -29 to 70 deg. C

Ordering Code: 8001 X 20000

BASE MODEL NUMBER

Standard Corrosive Service - (-)

N.A.C.E. Option ---------- N

Arctic Service ---------- A