4" Side Discharge Valve – 90 Degree Stub Outlet with Extension Tube

The Betts' Side Discharge Valve is a manual external stop valve designed to facilitate front pump-off applications for hot product tanks. The valve body is welded directly into the side shell of the tank which allows the seat and surrounding area to be fully heated by the elevated temperature of the product. Internal pump-off piping is welded to the rear inlet port of the valve. The front extension tube is provided to accommodate tank insulation yet keeps the top-head and bonnet area open for inspection and maintenance.

Valve MAWP: 10 psig [.69 bar]
Minimum bursting pressure: 100 psig [6.9 bar]
Max. Temp. of Aluminum Valve: +400°F [204°C]
Max. Temp. of Steel Valve: +500°F [260°C]

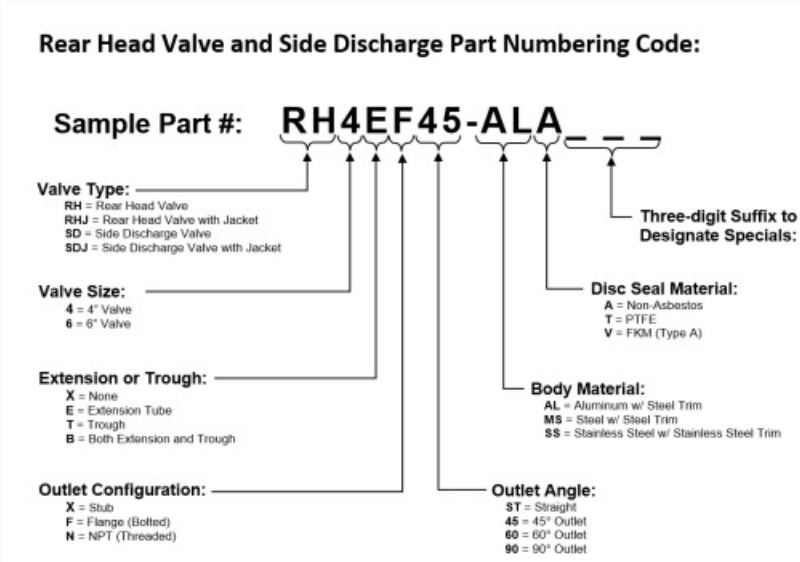
The Side Discharge Valve's outward opening disc and unobstructed flow path is ideal for heavy, viscous, temperature-sensitive commodities. The stem and stem nut utilize ACME threads and a grease fitting for exceptional service life. The external packing gland allows for easy adjustment of the packing to ensure proper sealing. A caution label explaining the packing gland adjustment is included with the valve and should be located close to the valve in a conspicuous area of the tank. An optional piercing lance can be specified to aid flow by breaking away semi-solidified product heels.

Assembly Part Number	Valve Size and Type	Outlet Configuration	Outlet Angle	Body Material	Disc Seal Material *	Weight	Shear Section
SD4EX90-ALA	4" Side Discharge with Extension Tube	Stub	90 Degrees	Aluminum	Non-Asbestos (laminated)	35 lbs. [15.9 kg]	Yes
SD4EX90-MSA	4" Side Discharge with Extension Tube	Stub	90 Degrees	Steel	Non-Asbestos (laminated)	55 lbs. [23.0 kg]	Yes

NOTE: Valves as listed above are standard with Non-Asbestos w/graphite packing and Non-Asbestos tophead gasket. * The Disc Seal material can be designated by the last letter in the part number. See the table below. Steel trim components are standard unless otherwise noted in parts list.

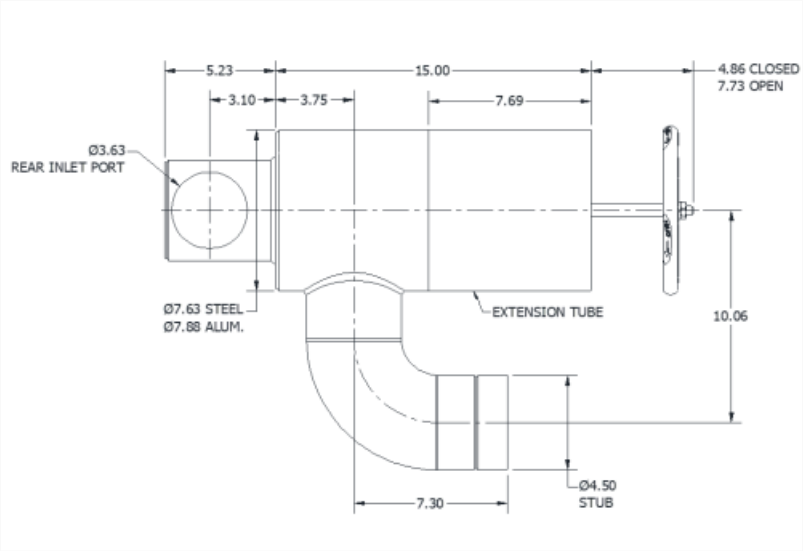
* Letter Code (Use as last letter of part number)	Disc Seal Material	Temperature Rating
A	Non-Asbestos (laminated)	-20°F to +500°F [-29°C to 260°C]
T	PTFE	-20°F to +500°F [-29°C to 260°C]
V	FKM (Type A)	0°F to +400°F [-18°C to 204°C]

NOTE: Valves as listed above are standard with Non-Asbestos w/graphite packing and Non-Asbestos gasket. Change last letter in part number to designate altenate Disc Seal Material. Trim is steel unless otherwise noted in parts list.



MM-RH001 Installation & Maintenance Manual 4" & 6" Rear Head and Side Discharge Valves

EB-04-00: Important Notification for Rear Head Valves and Hot Product Valves

EB-02-24: Rear Head Valve Product Improvement and New Part Numbering Code Rollout

⚠ **WARNING**: This product can expose you to chemicals including Lead which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov. For additional information on Betts products and Proposition 65 list please see: http://www.bettsind.com/prop-65/