

# DOUBLE SEAT VALVES

# INFORMATION

The Hydract double seat valve housing is designed in corporation with hygienic design specialists to offer a great hygienic and cleanable valve house for the industry. The design of the valve house creates optimal conditions in terms of cleanability and flow. It is designed to deliver high performance every time, every day!

**Flow direction** – The flow is bi-directional (flow can be both upstream and downstream).

**Mixproof safety** – The valve internals seal off the two pipelines to avoid any unintentional mixing of fluids. If seal leakage should occur, the leaking fluid will travel through the leakage chamber instead and thereby creates a visible leak indication.

**Seals** - The available seal materials are EPDM, HNBR and FKM. Reciprocating shaft seals use PTFE as the contact material to extend lifetime.

**Seat calibration and lifetime** – The upper seat seal compression can be adjusted by connecting the actuator to a tablet in our Hydract app, which you can download at ... [\[INPUT LINK\]](#). This ensures the seal can be adjusted during it's lifetime and ensure the correct expansion when exposed to heat which aids in increasing lifetime of the seal.

**Flow conditions** – The conical shape of the lower seat allows for an optimal flow when opening, closing or using the valve for regulation. The reduced pressure drops inherent with this design, when compared to typical ON/OFF valves, is used to gain more control over the same stroke, thus giving more stability.

Please contact Hydract for other designs.

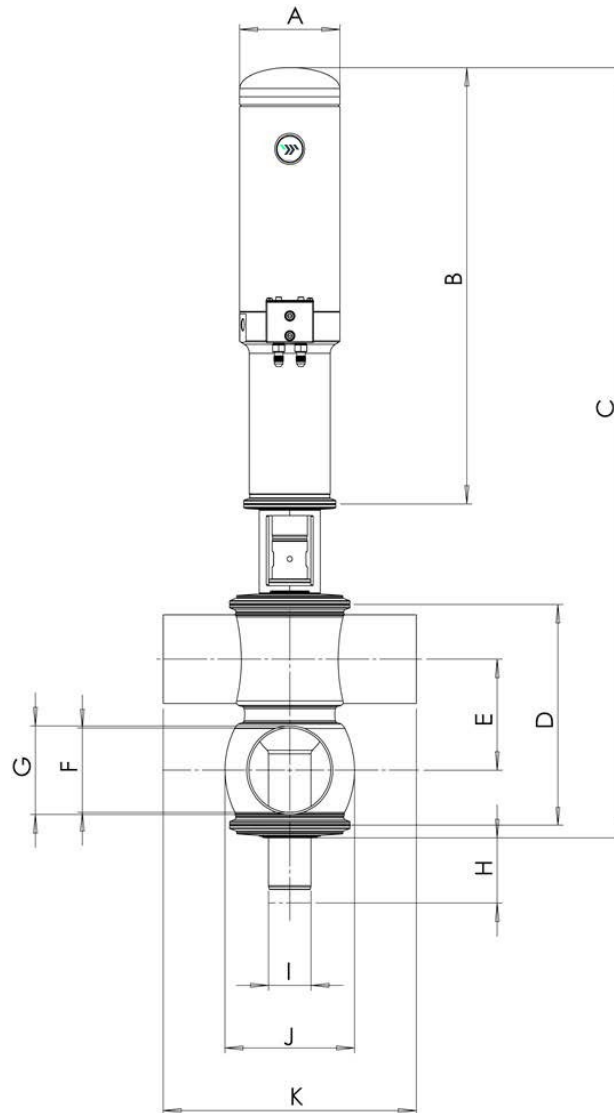
# TECHNICAL DATA

<b>PRESSURE:</b>	
<b>PRODUCT PRESSURE</b>	PN 145 psi (10 bar) / vacuum -13,8 psi (0,95 bar)
<b>HOUSING</b>	PN 360 psi (25 bar)
<b>PRESSURE RESISTANCE</b>	PN 650 psi (45 bar)
<b>MATERIAL:</b>	
<b>WITH PRODUCT CONTACT</b>	AISI 316 L / EN 1.4404
<b>WITHOUT PRODUCT CONTACT</b>	AISI 304 / EN 1.4301
<b>SEAL</b>	EPDM, HNBR or FKM
<b>SURFACE:</b>	
<b>WITH PRODUCT CONTACT</b>	Ra ≤ 0.8 µm
<b>WITHOUT PRODUCT CONTACT</b>	Ra ≤ 1.6 µm

# FEATURES AND BENEFITS

- » Hygienic design
- » Easy to clean
- » High wall shear stress
- » Elliptical shape
- » Bi-directional flow

# DIMENSIONS

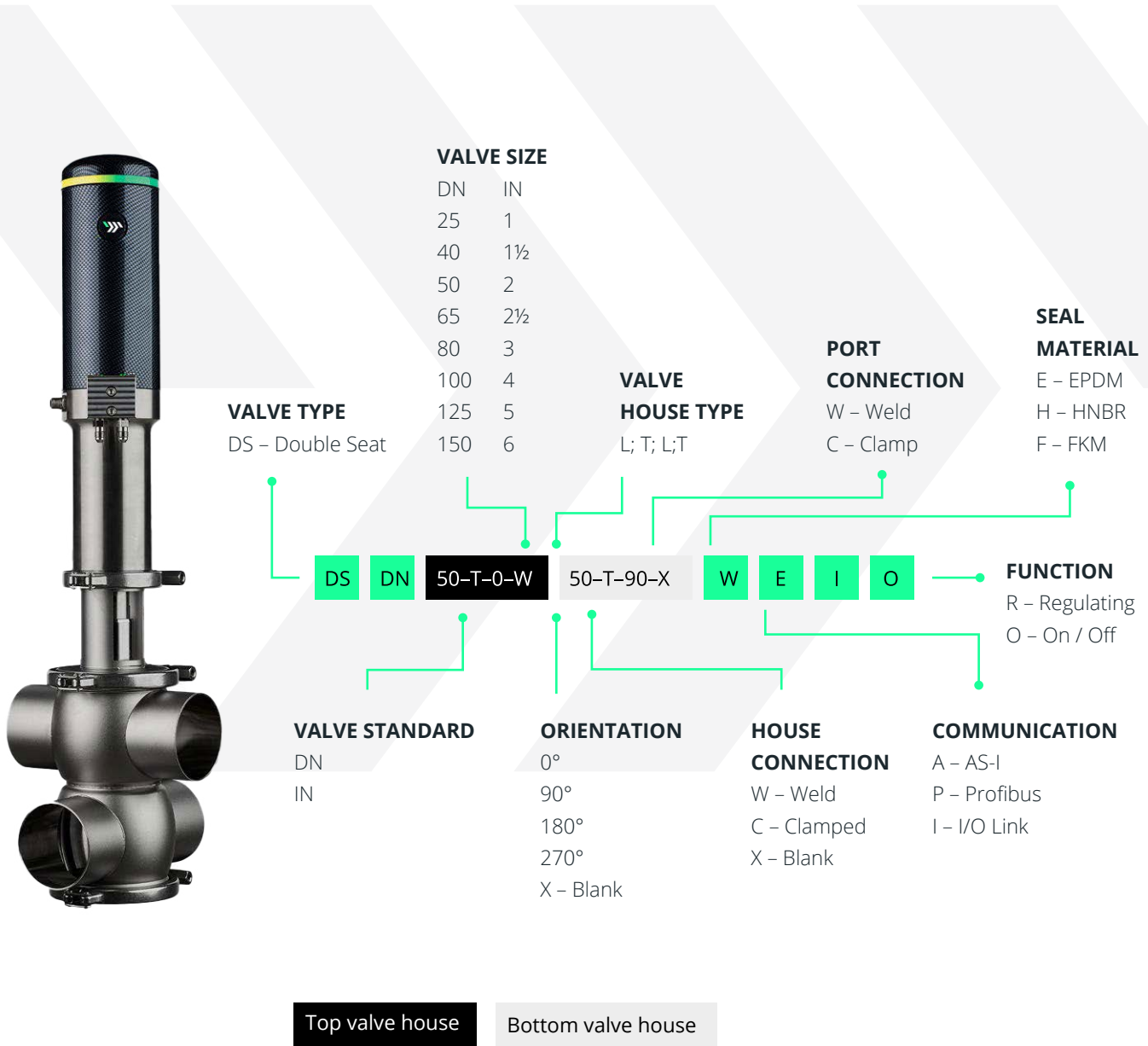


DIN/OD	ØA	B	C	D	E	ØF	ØG	H	ØI	J	K
DN25	99	380	562	77,4	61,4	26	29	59	20	60	150
DN40	99	380	587	124,6	63,4	38	41	59	20	72	180
DN50	99	380	608	148,4	75,4	50	53	59	20	84	180
DN65	99	418,5	708	181,4	91,4	66	70	71	42	116	220
DN80	99	418,5	738	211,4	106,4	81	85	71	42	128	220
DN100	99	418,5	777	249,4	125,4	100	104	71	60	160	220
DN125	99	418,5				125	129				
DN150	99	418,5				150	154				
1"	99	380	554,4	69,8	57,6	22,2	25,4	59	20	60	150
1½"	99	380	580,6	118,2	60,2	34,8	38,1	59	20	72	180
2"	99	380	603	143,4	72,9	47,5	50,8	59	20	84	180
2½"	99	418,5	696,4	169,8	85,6	60,2	63,5	71	42	116	220
3"	99	418,5	721,6	195	98,2	72,8	76,1	71	42	128	220
4"	99	418,5	771,8	244,2	122,8	97,4	101,6	71	60	160	220
DN125	99	418,5									
DN150	99	418,5				146,9	152,4				

# NUMBER SYSTEM

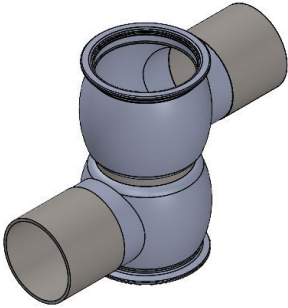
## HOW TO SPECIFY VALVES

- Orientation - For first valve house, always use 'X' or '0'. All subsequent valve house orientations are referenced to the first house.
- Valve house type - L = 2 port, one bottom port, 1 side port. T = 3 port, one bottom and 2 sides. I = piggable bottom port.



# VARIANTS

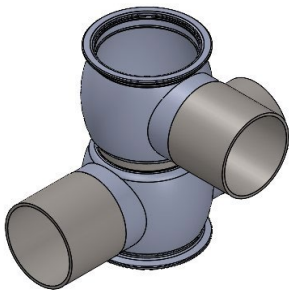
Double Seat Mixproof  
2 port



DN	EPDM	HNBR	FMK
DN25	.	.	.
DN40	.	.	.
DN50	.	.	.
DN65	.	.	.
DN80	.	.	.
DN100	.	.	.
DN125	.	.	.
DN150	.	.	.

INCH OD	EPDM	HNBR	FMK
1"	.	.	.
1½"	.	.	.
2"	.	.	.
2½"	.	.	.
3"	.	.	.
4"	.	.	.
DN125	.	.	.
DN150	.	.	.

Double Seat Mixproof  
3 port

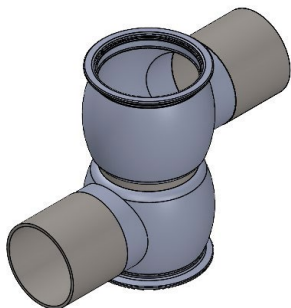


DN	EPDM	HNBR	FMK
DN25	.	.	.
DN40	.	.	.
DN50	.	.	.
DN65	.	.	.
DN80	.	.	.
DN100	.	.	.
DN125	.	.	.
DN150	.	.	.

INCH OD	EPDM	HNBR	FMK
1"	.	.	.
1½"	.	.	.
2"	.	.	.
2½"	.	.	.
3"	.	.	.
4"	.	.	.
DN125	.	.	.
DN150	.	.	.

# VARIANTS

Double Seat Mixproof  
4 port



DN	EPDM	HNBR	FMK
DN25	.	.	.
DN40	.	.	.
DN50	.	.	.
DN65	.	.	.
DN80	.	.	.
DN100	.	.	.
DN125	.	.	.
DN150	.	.	.

INCH OD	EPDM	HNBR	FMK
1"	.	.	.
1½"	.	.	.
2"	.	.	.
2½"	.	.	.
3"	.	.	.
4"	.	.	.
DN125	.	.	.
DN150	.	.	.