HYDRACT
CONNECTING PROCESSES

SINGLE SEAT VALVE

INFORMATION

The Hydract single 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!

The valve houses are clamped together with the actuator to ensure fast and easy assembly of the total valve system.

The flow direction is bi-directional, meaning that the flow can be both upstream and downstream using the same valve.

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 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.

The valve sizes are shown in below table.
Please contact Hydract for other designs.

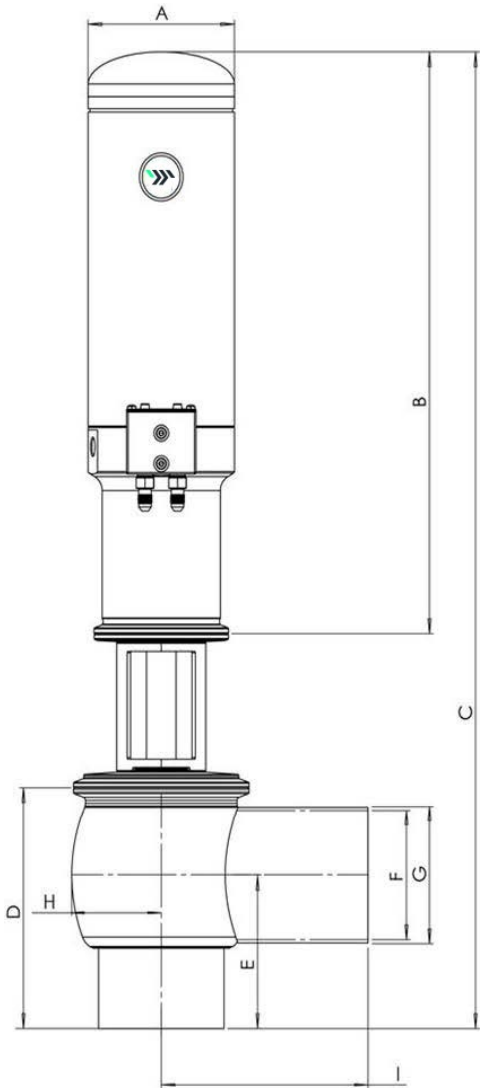
TECHNICAL DATA

PRESSURE:	
PRODUCT PRESSURE	PN 145 psi (10 bar) / vacuum -13,8 psi (0,95 bar)
HOUSING	PN 360 psi (25 bar)
PRESSURE RESISTANCE	PN 650 psi (45 bar)
MATERIAL:	
WITH PRODUCT CONTACT	AISI 316 L / EN 1.4404
WITHOUT PRODUCT CONTACT	AISI 304 / EN 1.4301
SEAL	EPDM, HNBR or FKM
SURFACE:	
WITH PRODUCT CONTACT	Ra≤ 0.8 µm
WITHOUT PRODUCT CONTACT	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	I
DN25	99	363	508.4	75	50	26	29	21	75
DN40	99	363	554	88	90	38	41	36	90
DN50	99	363	554	88	90	50	53	42	90
DN65	99	363	614	108	110	66	70	58	110
DN80	99	363	622	110	110	81	85	64	110
DN100	99	363	633	110	110	100	104	80	110
DN125	99	363	661	202	125	125	129	100	125
DN150	99	363	752	292	200	150	154	128	200
1″	99	363	508,4	75	50	22,2	25,4	21	75
1½″	99	363	554	88	90	34,8	38,1	36	90
2″	99	363	554	88	90	47,5	50,8	42	90
2½″	99	363	614	108	110	60,2	63,5	58	110
3″	99	363	622	110	110	72,8	76,1	64	110
4″	99	363	633	110	110	97,4	101,6	80	110
5″	99	363	661	125	125			100	125
6″	99	363	752	200	200	146,9	152,4	128	200

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.

VALVE TYPE
SS – Single Seat

VALVE SIZE

DN	IN
25	1
40	1½
50	2
65	2½
80	3
100	4
125	5
150	6

VALVE HOUSE TYPE
L; T; I

PORT CONNECTION
W – Weld
C – Clamp

SEAL MATERIAL
E – EPDM
H – HNBR
F – FKM

SS | DN | 50–T–X–X | W | E | I | O

FUNCTION
R – Regulating
O – On / Off

VALVE STANDARD
DN
IN

ORIENTATION
0°
90°
180°
270°
X – Blank

HOUSE CONNECTION
W – Weld
C – Clamped
X – Blank

COMMUNICATION
A – AS-I
P – Profibus
I – I/O Link

VARIANTS

Single Chamber
1 port + bottom

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

INCH OD	EPDM	HNBR	FMK
1"	•	•	•
1½"	•	•	•
2"	•	•	•
2½"	•	•	•
3"	•	•	•
4"	•	•	•
5"	•	•	•
6"	•	•	•

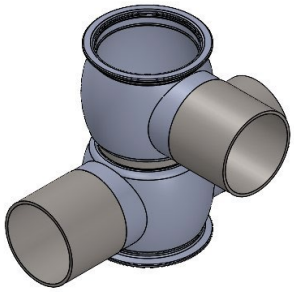
Single Chamber
2 port + bottom

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

INCH OD	EPDM	HNBR	FMK
1"	•	•	•
1½"	•	•	•
2"	•	•	•
2½"	•	•	•
3"	•	•	•
4"	•	•	•
5"	•	•	•
6"	•	•	•

VARIANTS

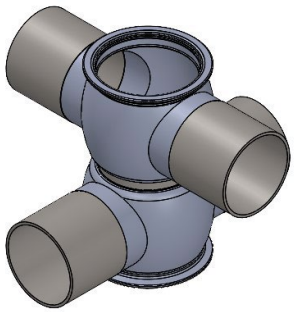
Double Chamber
3 port



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

INCH OD	EPDM	HNBR	FMK
1"	•	•	•
1½"	•	•	•
2"	•	•	•
2½"	•	•	•
3"	•	•	•
4"	•	•	•
5"	•	•	•
6"	•	•	•

Double Chamber
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"	•	•	•
5"	•	•	•
6"	•	•	•